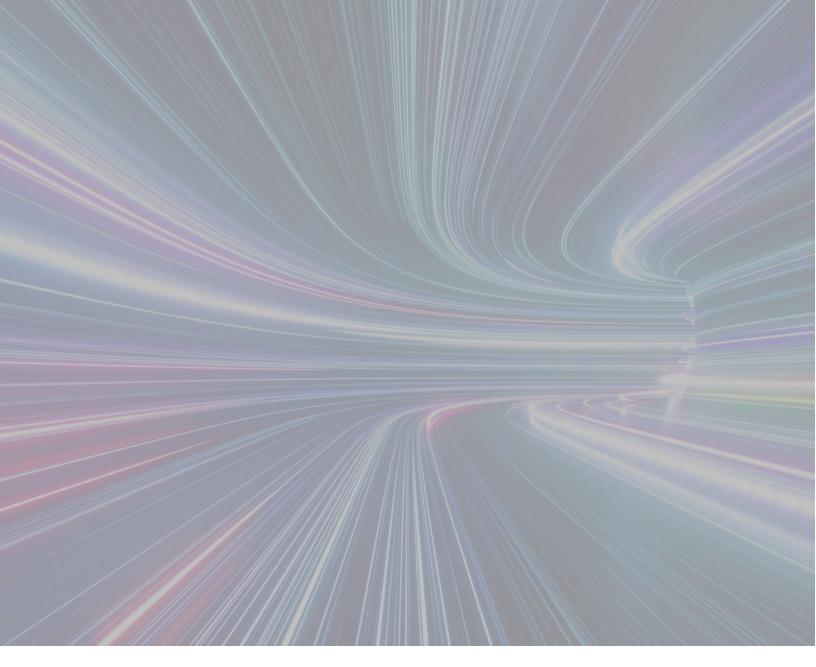


# SDG Profile Surat Thani



The SDG Profiles are completed with financial support from the European Union (EU) and is the result of a collaborative process involving UNDP staff, consultants, and academic experts from the Thailand Development Research Institute Foundation (TDRI) and the National Institute of Development Administration (NIDA).

The views expressed in this publication are solely those of the authors. They do not necessarily reflect the views of the European Union, the United Nations, including the UNDP, or the UN Member States.

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# Summary

Surat Thani is a prominent tourism hub in the southern region of Thailand. The province needs to balance its development to support three aspects: economy, Social and Well-being, and Environment.

- Economy: The province's economic landscape is characterised by a growing renewable energy sector, and captivating tourist destinations. However, it faces challenges stemming from the declining growth of the agricultural sector and inadequate transport infrastructure to support tourism.
- Social and Well-being: The province has comprehensive public healthcare services and educational institutions. Nevertheless, labour shortages and agricultural poverty pose significant challenges.
- Environment: Surat Thani faces challenges in hazardous waste management, water quality improvement, forest and marine resource conservation, and disaster preparedness.

We have identified 163 Sustainable Development Goals (SDGs) for Surat Thani from a comprehensive analysis. The 54 relevant indicators with available data during 2013 - 2023 will be evaluated by comparing Surat Thani's performance to the country's average. The data was gathered from open government databases providing information at national and provincial levels. The findings could be summarised as follows:

- Sustainable Development Goals 2 (Zero Hunger), 3 (Good Health and Wellbeing), 7 (Affordable and Clean Energy), 12 (Responsible Consumption and Production), and 17 (Partnerships for the Goals), the indicators show that Surat Thani's performance exceeded the national average.
- Surat Thani's performance on Sustainable Development Goals 4 (Quality Education), 8 (Decent Work and Economic Growth), and 15 (Life on Land) was slightly below the national average.
- Surat Thani's performance on Sustainable Development Goals 1 (No Poverty), 9 (Industry, Innovation and Infrastructure), 11 (Sustainable Cities and Communities), 13 (Climate Action) and 16 (Peace, Justice, and Strong Institutions) are significantly below the national average.
- It was not possible to monitor and evaluate Sustainable Development Goals 5 (Gender Equality), 6 (Clean Water and Sanitation), 10 (Reduced Inequalities), and 14 (Life Below Water). This was primarily due to a lack of data collection, the challenge of data accessibility, and limited expert analysis in these specific areas.

The NIDA surveyed Surat Thani's opinion towards the development priorities in Surat Thani. The results show that Surat Thani's performance in achieving urgent SDGs lagged behind national levels, except for 7 (Affordable and Clean Energy). The list of top five priorities SDGs identified by respondents were SDG 1: No Poverty, SDG 4: Quality Education, SDG 8: Economic Growth and Decent Work, SDG 7: Affordable and Clean Energy, and SDG 16: Peace, Justice, and Strong Institutions, in these specific areas.

For efficient monitoring and evaluation of Surat Thani's Sustainable Development Goals (SDGs), open government data, the analysis of data at a disaggregated level, and comparison against available targets are essential. Additional key challenges and development priorities for Surat Thani include (1) the coverage of public health services due to the increasing non-registered population (SDGs 1, 3, 4, 9), (2) the effect of climate change on coastal ecosystems (SDGs 8, 13, 14), (3) the lack of participation of children and youth in natural resource conservation (SDGs 6, 11, 12, 14), and (4) the rising suicide rate (SDG 3). These priorities could serve as guidelines for future sustainable development efforts in the province.

# Development priorities according to the indicator performance and survey results

Performance	Top-Five SDGs as per the Survey	Key Achievement	Room for Improvement
Above national's average	7 AFFORDABLE AND CLEAN ENERGY	<ul> <li>Renewable energy share in the total final energy consumption</li> <li>Installed renewable energy-generating capacity</li> </ul>	
	4 QUALITY EDUCATION		O-NET score of grade-12 students     Participation rate of youth and adults in formal and non-formal education     Proportion of children aged 0-5 years months who are developmentally on track
Lower than the national average by 10 percent	8 DECENT WORK AND ECONOMIC GROWTH	<ul> <li>Unemployment rate</li> <li>Proportion of youth not in education, employment, or training</li> <li>Fatal and non-fatal occupational injuries</li> <li>Proportion of informal employment in total employment</li> <li>Tourism revenue growth rate</li> </ul>	Annual growth rate of real GPP per capita     Annual growth rate of real GPP per employed person
Lower than the	1 NO POVERTY	Proportion of population living below the national poverty line	<ul> <li>Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions</li> <li>Proportion of population covered by social protection floors/systems</li> <li>Proportion of total adult population with secure tenure rights to land</li> <li>Number of affected persons attributed to disasters</li> </ul>
national average by more than 20 percent	PEACE, JUSTICE AND STRONG INSTITUTIONS	ITA Score of E2: Equitable service	<ul> <li>Number of cases of intentional homicide</li> <li>Number of arrest cases subjected to (a) attempted murder (b) physical violence, (c) sexual violence</li> <li>Number of victims of human trafficking</li> <li>Unsentenced detainees as a proportion of overall prison population</li> <li>Number of firearm and explosive cases</li> <li>ITA Score of E4: A bribe by those public officials</li> <li>ITA Score of section 6: Quality of public services</li> </ul>

# **Abbreviations**

GDP Gross Domestic Product
GPP Gross Provincial Product

ITA Integrity and Transparency Assessment

LGBTQIA+ Lesbian, Gay, Bisexual, Queer, Intersex, Asexual, and others

NIDA National Institute of Development Administration

PM 2.5 Particulate matter 2.5

SDG Sustainable Development Goal

TDRI Thailand Development Research Institute
TPMAP Thai People Map and Analytics Platform
UNDP United Nations Development Programme

# Introduction

The SDG Profiles are collaborative efforts by the Ministry of Interior, the United Nations Development Programme (UNDP), the National Institute of Development Administration (NIDA), and the Thailand Development Research Institute (TDRI) aim to create provincial Sustainable Development Goal (SDG) profiles for 15 target provinces in Thailand. These provinces include Bangkok, Chiang Mai, Chiang Rai, Mae Hong Son, Nakhon Ratchasima, Narathiwat, Pattani, Phetchaburi, Phuket, Songkhla, Surat Thani, Tak, Ubon Ratchathani, Udon Thani, Yala

The project aims to raise awareness among provincial agencies about the importance of the Sustainable Development Goals (SDGs). The SDG profiles (hereafter, the report) are not just documents but powerful tools that enhance understanding of the alignment between SDGs and provincial development strategies, empowering the stakeholders with knowledge and insights.

Specifically, Surat Thani's SDG Profile Report provides an overview of the province's sustainable development context using the UN's SDG indicators. It further analyses the alignment among the SDGs, the Surat Thani Development Plan (2023-2027), and public perspectives on critical sustainability issues. This report aims to provide the local government with a clear picture of Tak's state of play in sustainable development, helping the province identify its sustainable development gaps and develop a strategy that leads to a more sustainable future.

# **Table of content**

Surat Thani: Context and Development Priorities	8
Performance of Sustainable Development Goal Indicators	13
Voice of the People	33
Recommendations, Gaps, and Opportunities for Developme	nt 37

Appendix 1: SDG Profile Research Methodology

Appendix 2: Details of Indicators, Datasets, Analysis, and Recommendations

Appendix 3: Complete Research - Survey on the Overview Status of Thailand's Sustainable Development Goals

# **Surat Thani: Context and Development Priorities**



Surat Thani is the largest province in southern Thailand located in the upper southern region. It encompasses numerous large islands and their satellite islets, which serve as popular tourist destinations. Thus, it has earned the designation "City of a Hundred Islands.".

Towering mountains and coastal plains surround Surat Thani's landscape. With approximately 45% of its landmass dedicated to agriculture, most of the population engages in farming activities. However, a growing elderly population, a declining workforce, and a high birth rate have emerged as significant challenges. These trends underscore the fundamental context and pressing challenges faced by Surat Thani.

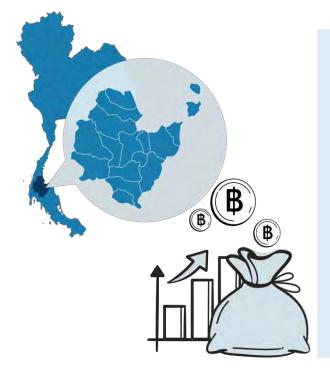
## **Surat Thani: Key Statistics and Socioeconomic Context**

## Surat Thani covers 13.079.61 square kilometres in size.

It has 19 districts, 19 subdistricts, two city municipalities, three town municipalities, 35 subdistrict municipalities, and 37 subdistrict administrative organisations.1

Surat Thani is the largest province in Southern Thailand and the sixth largest in the country. The province has several large islands and archipelagos, such as Koh Samui, Koh Pha Ngan, and the Ang Thong Islands. Approximately 49% of the province comprises complex, high mountain ranges, foothills, and coastal plains.

In 2022, Surat Thani's population was 1,073,663, with 527,555 males and 546,108 The population growth rate females. increased by 0.11% from 2021.1 These figures paint a picture of a province in transition. In 2020, 16.28% were elderly, indicating a shift towards an aging society, while the birth rate declined. Additionally, the non-registered population accounted for 7% of the province's population. These demographic shifts are not just numbers, but a reflection of the challenges and opportunities that lie ahead for Surat Thani.



In 2021, Surat Thani's estimated GPP is at 114,261 billion baht, around 1.07 % of the country's total GDP.

The services sector is the most extensive economic activity in the province; it contributes to 62.79 percent of Surat Thani's GPP, while the manufacturing and agricultural sectors are only worth 20.02 and 19.80 percent

## **Focus on Sustainable Development**

The Surat Thani Development Plan (2022-2027), the fiscal year 2023 revision<sup>3</sup> outlines the province's commitment to sustainable development. It covers economic, social, and environmental aspects, reflected in various development strategies and the provincial vision: " High-value agricultural city Sustainable tourism and happy society.".



#### **Economic Context**

The economic development context of Surat Thani aims to boost the province's economic growth by enhancing agricultural production and processing to increase product value. The strategy includes promoting renewable energy use and advancing the province's standout tourism into sustainable tourism. Additionally, plans are to expand and improve the transport network to support these initiatives.

#### **Highlights**

Incresing renewable energy production, utilising waste-to-energy and palm oil: By 2021, Surat Thani had the highest renewable energy production capacity in southern Thailand, accounting for 35.69% of the region's total capacity. This aligns with the province's first development priority: Enhancing Agricultural Production and Processing Industries to Create High-Value Products under the sub-strategy of Promoting the Use of Renewable Energy and Energy Efficiency (SDG 7.2.1, 7.b.1).

Unique and diverse agricultural products and tourist destinations generate significant income from both sectors. The province is also recognised as a MICE city (Meetings, Incentives, Conferences, and Exhibitions), further enhancing its economic profile: This aligns with Development Issue 1: Enhancing Agricultural Production and Processing Industries to Create High-Value Products (SDG 2.3, 2.4, 2.a) under the sub-strategy of Promoting and Upgrading High-value Processing Industries (SDG 9.5). In addition, Development Issue 2: Developing High-standard Tourism Aimed at Sustainability (SDG 8.9.1) is also relevant.

The Gross Provincial Product (GPP) in the agricultural sector has been growing at a decreasing rate: Surat Thani's GPP is subject to fluctuations in product prices. These challenges persist despite agriculture being a key production sector in Surat Thani. (SDG 2.3.1, 8.1, and 8.2)

**Inadequate Infrastructure Coverage:** Public transport services have limited route coverage and inconsistent pricing schemes (SDG 9.1 and 11.2.1).



#### **Social Context**

Surat Thani Province's social development strategy aims to promote a better quality of life for its residents by enhancing safety, eradicating poverty, improving education strengthen to its Additionally, efforts focus competitiveness. on enhancing the efficiency of education and public health services.

#### **Highlights**

Access to Healthcare Services: aligning with the Development Issue 4: Strengthening Social Capacity for Quality of Life, under the sub-strategy of Improving the Efficiency of Public Health Services (SDG 3.8, 3.c). Additionally, efforts to promote smart city development through technological advancements (SDG 9.b, 9.c, and 17.8) are underway. However, the healthcare system must also address the challenge of accommodating a significant non-registered population, highlighting the need to improve healthcare service coverage.

Educational institutions and research organisations can enhance the value of local products: aligning with Development Issue 4 through the development of children and youth education (SDG 4.1, 4.2, 4.3, 4.a, and 4.c) to enhance competitiveness.

Labour Shortage: The labour force in Surat Thani is insufficient, requiring reliance on foreign labour. The proportion of foreign labour to employed individuals stands at 12.43%. However, some of this labour may lack benefits or protection (SDG 1.3.1 and 8.3.1), potentially leading to various social issues (SDG 16.1, 16.2, and 16.3).

Poverty Incidence of Agricultural Households: One of the challenges faced by farmers (SDG 1.2, 10.1, and 10.2) is poverty, partly due to some farmers not owning the land they cultivate (SDG 1.4.2 and 11.3.1), with many being elderly and lacking successors to continue farming. These farmers also lack modern skills, leading to failure in earning more income.

#### **Environmental context**



Surat Thani's environmental context links to its geographical features, including high mountains, river valleys, coastal plains, and islands in the Gulf of Thailand. Consequently, there are challenges in managing and conserving these natural resources to maintain their quality. These issues are addressed in the Provincial Development Plan for Surat Thani (2023-2027) under Development Issue 5: Natural Resource and Environmental Management for Sustainable Development.

#### **Highlights**

Hazardous Waste Management: The Provincial Development Plan has identified an increase in public awareness and understanding of hazardous waste management (SDG 12.4.2), leading to increased waste separation at the source and greater reuse of waste materials (SDG 12.5.1). However, Surat Thani still faces challenges in managing hazardous waste in accordance with academic standards and increasing public sector services to accommodate the rising trend of hazardous waste volume.

Water & Wastewater Quality Monitoring: The quality of water sources (SDG 6.3.2) is compromised due to issues related to wastewater management from industrial facilities and factories. Additionally, the deterioration of water quality in tourist areas, particularly along coastal areas and various islands, may disrupt the balance of coastal ecosystems and harm the tourism sector (SDG 8.9.1).

A Problem of Forest Encroachment and Coastal Erosion: The conservation of forest resources (SDG 15.1.1) and marine resources, which face issues such as deforestation and coastal erosion, requires Surat Thani Province to strike a balance between community participation in protecting forest resources and allocating land for community-based land management (CBRM). Additionally, there is a need to promote community involvement and natural methods to mitigate coastal erosion.

Coping with Natural disaster (including floods, droughts, storms, and earthquakes): requires increased support from the government in allocating disaster response equipment and raising public awareness. (SDG 1.5.1, 11.5.1, 13.1.1)

# **Performance of Sustainable Development Goal Indicators**

#### **Indicator Summary**

When selecting the indicators for the 17 Sustainable Development Goals, which include 248 combined, the 163 sustainable development indicators can be applied to the context of Surat Thani. They cover a myriad of sustainable development and development strategy goals of the capital but only 54 indicators are ready to be monitored and evaluated.

#### The Guidelines for Monitoring and Evaluation

To evaluate the 54 indicators, the province's performance was compared with the national values using the data average between 2013 and 2023. However, the results could not point out whether or not the province's performance was higher or lower than the target or the standard scores of the United Nations/related agencies. The indicators fell into four levels as follows:

- Level 4: Higher than the national value
- Level 3: Lower than the national value, not more than 10 percent
- Level 2: Lower than the national value, between 10 and 20 percent
- Level 1: Lower than the national value, more than 20 percent

The report's appendix provides more information on indicator details. dataset names. analysis, and recommendations for all indicators.



#### For indicators that cannot be monitored and evaluated, there are four main reasons

- (1) No data on the indicators for Tak is collected. Relevant agencies should have gathered data.
- (2) Data for the indicators was collected but could not be accessed publicly. Tak Province should coordinate with other agencies to request data or the data owners should disclose data for public purposes.
- (3) No data collection for the indicators has been carried out. Definitions, methods, and guidelines for collecting data should be studied;
- (4) The supporting data of the indicators is being collected, but it is essential to rely on experts to gather additional information. A thorough study should be conducted to present future data analysis.

#### **SDG 1** End poverty in all its forms everywhere



Sustainable Development Goal 1 concerns the end of poverty. Ten indicators apply to the Surat Thani context by considering poverty in terms of expenditures, access to essential services and social protection, land rights, disaster impacts, and other dimensions of poverty in line with the definition of survey-based and registeredbased poverty, or Thai People Map and Analytics Platform (TPMAP), which arises

from basic needs data (BND) by the Community Development Department and state welfare registrant data by the Ministry of Finance.

SDG 1 aligns with the Surat Thani Development Plan (2022-2027), the fiscal year 2023 revision. In enhancing social capacity for a better quality of life, there are strategies to alleviate poverty and develop people of all ages according to the sufficiency economy philosophy.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
121	The proportion of the population living below the national poverty	2.92	4
1.2.1	line (percent)		
122	The proportion of men, women and children of all ages living in	15.35	1
1.2.2	poverty in all its dimensions according to national definitions		
121	Proportion of population covered by social protection	30.01	1
1.3.1	floors/systems (percent)		
1.4.2	Proportion of the total adult population with secure tenure rights	77.15	3
1.4.2	to land		
4 = 4	Number of affected persons attributed to disasters	4,906.77	1
1.5.1	(person per 100,000 population) <sup>P</sup>		
450()	Direct economic loss attributed to disasters concerning global gross	23.03	
1.5.2 (a)	domestic product (GDP) (a) damage to infrastructure (million Baht)		

Surat Thani Province's performance on all SDG 1 indicators, including the poverty rate, the proportion of workers with social security, the proportion of the population with land titles, and the population affected by disasters, was below the national average. The province must mobilise resources for comprehensive poverty alleviation, focusing on remote areas and vulnerable groups.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 1.4.1, 1.5.2 (b), 1.5.3, 1.5.4, and 1.b.1.

# SDG 2 End hunger, achieve food security, and improved nutrition, and promote sustainable agriculture



Sustainable Development Goal 2 aims to end hunger. 11 indicators apply to the Surat Thani context. They involve hunger, malnutrition, food security, nutritional status, food production in the agricultural sector, the number of plant and animal genes for food, agricultural preparation, and food prices.

SDG 2 focuses on improving nutrition in three areas: stunting in children under 5, malnutrition in children under 5, and anaemia in women aged 15 to 49. SDG 2 aligns with the Surat Thani Provincial Development Plan (2023-2027) under the Development Issue of Enhancing Agricultural Production and Processing Industries to Create High-Value Products. This plan includes strategies to develop and support improving agricultural product standards.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
2.2.3	Prevalence of anaemia in pregnant women (percentage) P	19.10	1
2.3.1	Value of production per labour unit (Baht/person/year) P	147,056.41	4

Surat Thani Province's performance on agricultural production value per labour unit was above the national average. However, the proportion of pregnant women with anaemia was below the national average. Surat Thani has not been publicly disclosed Regarding the prevalence of malnutrition (underweight, overweight, and stunting). Therefore, Surat Thani must collaborate and coordinate with relevant agencies to facilitate the public disclosure of such data. This collaboration is essential to enable ongoing monitoring of the progress of these indicators.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.3.2, 2.4.1, 2.5.1, 2.a.1, and 2.c,1.

# SDG 3 Ensure healthy lives and promote well-being for all at all ages



For Sustainable Development Goal 3, 26 indicators were proper to be used in Surat Thani. These indicators covered health and well-being issues for people of all ages, such as diseases, mortality, and access to healthcare systems.

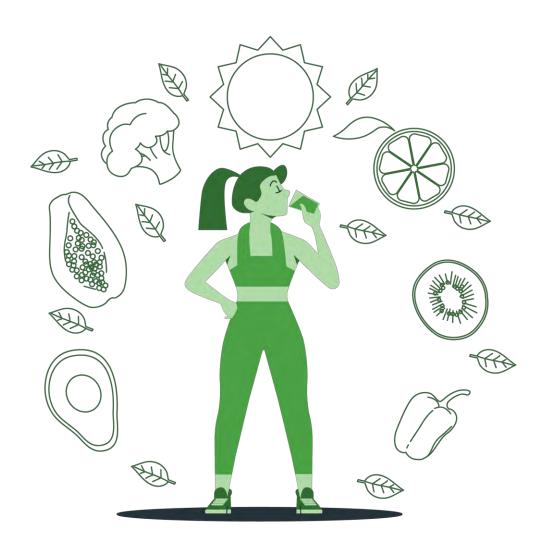
SDG 3 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 4: Strengthening Social Capacity for Quality of Life, a significant aspect that focuses on upgrading the public health service system and promoting traditional Thai medicine and alternative medicine. However, this development plan does not specify issues related to health status and access to medical services extensively enough.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
3.1.1	Maternal mortality ratio (person per 100,000 live births)	27.60	2
3.2.1	Under-5 mortality rate (person per 100,000 live births)	8.80	3
3.3.1	Number of new HIV infections (person per 1,000 uninfected	0.06	4
	population)		
3.3.3	Malaria incidence (person per 1,000 population)	0.18	4
3.3.4	Hepatitis B incidence (person per 100,000 population)	18.67	1
3.4.2	Suicide mortality rate (person per 100,000 population)	7.46	2
3.5.1	Retention rate of substance use disorders P	60.75	4
3.6.1	Death rate due to road traffic injuries (person per 100,000	34.67	2
	population)		
3.8.1	Coverage of Universal Coverage Scheme (percent) <sup>P</sup>	99.69	3
3.9.1	The incidence rate of respiratory system diseases attributed to	0.98	4
	ambient air pollution <sup>P</sup>		
3.c.1	Health worker density and distribution	35.30	4

Surat Thani Province's performance on some SDG 3 indicators was above the national average, but overall performance was below the national average. Key areas of concern include maternal mortality, hepatitis B virus, suicide rates, and fatalities from road traffic accidents, which are significantly lower than the national average. For a comprehensive evaluation, the province can adopt the Ministry of Public Health's development targets for each indicator to monitor its progress in public health indicators. However, mental health issues, which influence suicide rates, represent a significant challenge for Surat Thani. These issues are interconnected with economic, educational, and societal disparities.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 3.1.2, 3.2.2, 3.3.2, 3.3.5, 3.4.1, 3.5.2, 3.7.1, 3.7.2, 3.8.2, 3.9.2, 3.9.3, 3.a.1, 3.b.1, 3.b.3, and 3.d.2.



# **SDG 4** Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



Sustainable Development Goal 4 contains ten indicators applicable to the Surat Thani context. These educational indicators, especially educational equality and the fight against educational inequality in various factors, such as sexual status, financial status, or social status, are essential for every province in the country.

SDG 4 aligns with the Surat Thani Provincial Development Plan under Development Issue 4: Strengthening Social Capacity for Quality of Life. A significant aspect focuses on the educational development of children and youth to enhance their competitiveness. However, the aforementioned provincial development plan does not specify much on the issue of educational equity.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
4.1.1	O-NET score of grade-12 students <sup>P</sup>	32.79	3
4.1.2 (a)	Completion rate (primary education)	98.10	
4.1.2 (b)	Completion rate (lower secondary education)	91.62	
4.1.2 (c)	Completion rate (upper secondary education)	94.95	
4.1.2 (d)	Completion rate (vocational education)	73.44	
4.2.1	The proportion of children aged 0-5 years months who are	90.24	3
	developmentally on track (percent) <sup>P</sup>		
4.2.2	Participation rate in organised learning	80.38	
4.3.1	The participation rate of youth and adults in formal and non-formal	70.88	2
	education (percent)		
4.5.1 (a)	Parity indices (female/male) (upper secondary education)	1.61	
4.5.1(b)	Parity indices (female/male) (vocational education)	0.69	
4.a.1 (a)	The proportion of schools offering basic services (preschool	50.00	
	education)		
4.a.1 (b)	The proportion of schools offering basic services (primary	100.00	
	education)		
4.a.1 (c)	Proportion of schools offering basic services (lower secondary	100.00	
	education)		

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
4.a.1 (d)	The proportion of schools offering basic services (upper secondary	100.00	
	education)		
4.a.1 (e)	The proportion of schools offering basic services (vocational	100.00	
	education)		

Surat Thani Province's performance on the Early Childhood Development indicator, such as youth and adult enrollment rates and O-NET scores, was below the national average. However, comparing with national data is challenging due to a lack of nationwide data collection for many indicators. Additionally, the COVID-19 pandemic (2023-2024), which led to school and childcare closures and a focus on online education, is a significant factor affecting provincial performance.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 4.4.1, 4.6.1, and 4.c.1.



# **SDG 5** Achieve gender equality and empower all women and girls



Nine indicators can be applied to the context of Surat Thani for Sustainable Development Goal 5. These indicators cover eliminating discrimination and all forms of violence against women and girls across various dimensions, such as economic, social, and policy implementation.

The Surat Thani Provincial Development Plan (2023-2027) does not explicitly address strategies or guidelines for ending gender discrimination and promoting gender equality.

#### **Indicator performance**

Monitoring and evaluating the indicators under Sustainable Development Goal 5 is not viable. Relevant agencies, such as the Department of Women's Affairs and Family Development, the Office of the Permanent Secretary, the Ministry of Social Development and Human Security, and the One Stop Crisis Centre (OSCC) under the Office of the Permanent Secretary, Ministry of Public Health, should coordinate in the disclosure or integration of information. This can be used to report the performance of respective indicators.

The report's appendix details other indicators that cannot yet be monitored and evaluated, including 5.2.1, 5.2.2, 5.3.1, 5.3.2, 5.4.1, 5.5.1, 5.6.1, 5.a.1, and 5.c.1.

## SDG 6 Ensure availability and sustainable management of water and sanitation for all



Sustainable Development Goal 6 seeks to manage water and sanitation for all. Eight indicators are apply to the Surat Thani context, including access to safe drinking water and safely managed sanitation services, water quality of water resources, efficient changes in water use, water tension level, ecosystem changes related to water, and participation of local communities in water and sanitation management.

SDG 6 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 4: Strengthening Social Capacity for Quality of Life and Development Issue 5: Natural Resource Management and Environmental Conservation for Sustainable Development. These include efficient natural resource management and elevating the quality of life, especially for vulnerable households.

#### **Indicator performance**

Monitoring and evaluating the indicators under Sustainable Development Goal 6 is not viable. Access to clean water shows a lack of continuity of data collection. Data on wastewater management requires further coordination with the Department of Natural Resources and Environment. Specialists should collect and calculate additional data regarding water source quality.

The report's appendix details on other indicators that cannot yet be monitored and evaluated, including 6.1.1, 6.2.1, 6.3.1, 6.3.2, 6.4.1, 6.4.2, 6.6.1, and 6.b.1.

# SDG 7 Ensure access to affordable, reliable, sustainable, and modern energy for all



With regards to Sustainable Development Goal 7, four indicators are applicable to Surat Thani. They concern electricity access and production, and use of renewable energy.

SDG 7 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 1: Advancing Agricultural and Industrial Production to Create High Value Product, including sustainable production and efficient use of resources. Development Issue 3: Enhance Transport Infrastructure to Connect Logistics Systems, covering adequate street lighting infrastructure to meet the people's needs.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
7.2.1	Renewable energy share in the total final energy consumption	132.88	4
	(kW per 1,000 GW) P		
7.b.1 (a)	Installed renewable energy-generating capacity (MW)	310.63	
7.b.1 (b)	Installed renewable energy-generating capacity	292.65	4
	(watts per capita)		

Surat Thani Province's performance on SDG 7 indicators was above the national average in both renewable energy consumption and production. Data on electricity access is limited and requires further collection for Surat Thani. However, there are challenges in ensuring electricity access for populations in remote areas.

The report's appendix provides more details on other indicators, including 7.1.1 and 7.1.2, that cannot yet be monitored and evaluated.

# **SDG 8** Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all

DECENT WORK AND ECONOMIC GROWTH

Sustainable Development Goal 8 has 11 indicators that are apply to the Surat Thani context. These indicators cover income growth, employment, labour, tourism, and access to financial services.

SDG 8 aligns with the Surat Thani Provincial Development Plan (2023-2027) under (1) Development Issue 1: Advancing Agricultural and Industrial Production to Create High-Value Product, (2) Development Issue 2: Developing High-standard Tourism Aimed at Sustainability, and (3) Development Issue 3: Enhance Transport Infrastructure to Connect Logistics Systems. This illustrates the province's development strategy in promoting economic growth through coordinated efforts in agricultural competitiveness, tourism, and manufacturing sectors.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
8.1.1	Annual growth rate of real GPP per capita (percent)	0.05	1
8.2.1	Annual growth rate of real GPP per employed person (percent)	-1.16	1
8.3.1	The proportion of informal employment in total employment (percent)	60.81	3
8.5.2	Unemployment rate by sex, age, and persons with disabilities (percent)	0.99	4
8.6.1	The proportion of youth not in education, employment, or training (percent)	16.55	З
8.8.1	Fatal and non-fatal occupational injuries (person per 100,000 population) <sup>P</sup>	115.15	4
8.9.1 (a)	Tourism revenue (million baht) <sup>P</sup>	60,171.33	
8.9.1 (b)	Tourism revenue growth rate (percent) P	85.80	4

Surat Thani Province's performance on most SDG 8 indicators was above the national average, including unemployment rates, work-related injuries or illnesses, and the growth of tourism revenue. However, some indicators were below the national average, including the growth of GPP per capita, the proportion of youth not in education, employment, or training, unemployment rates, and the proportion of informal sector employment. Moreover, the COVID-19 pandemic has directly impacted income growth and tourism revenue.

The report's appendix provides more details on other indicators that still need to be monitored and evaluated, including 8.5.1, 8.7.1, 8.10.1, and 8.10.2.

## SDG 9 Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation



For Sustainable Development Goal 9, 11 indicators can be applied to Surat Thani. These indicators cover issues related to transport infrastructure, public access to technology, value-added from manufacturing industries, employment in manufacturing, operations of small-scale industries in terms of value-added and access to financing, carbon dioxide emissions, and budgets supporting research and development.

SDG 9 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 1: Advancing Agricultural and Industrial Production to Create High-Value Products, Development Issue 3: Enhance Transport Infrastructure to Connect Logistics Systems. This development goal covers upgrading manufacturing, agricultural, transport, and logistics systems to promote and support the province's transformation into a central hub for distributing and transporting goods.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
9.1.1	Proportion of village accessed to all-season road (percent) P	59.44	4
9.2.1 (a)	Manufacturing value added as a proportion of GDP (percent)	14.78	1
9.2.1 (b)	Manufacturing value added (per capita)	24,875.39	1
9.2.2	Manufacturing employment as a proportion of total employment	6.80	1
	(percent)		
9.5.2	Researchers per million inhabitants <sup>P</sup>	566.62	1
9.c.1	The proportion of the population having cellular phone P	88.82	3
	(percent)		

Surat Thani Province's performance on all SDG 9 indicators, including the proportion of researchers, manufacturing value added per capita, manufacturing employment, and telecommunications infrastructure, was below the national average. Consequently, it is imperative for Surat Thani province to promote the growth of high-value manufacturing sectors within the province to drive overall economic growth.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 9.1.2, 9.3.1, 9.3.2, 9.4.1, 9.5.1, and 9.b.1.

# **SDG 10** Reduce inequality within and among countries



Seven indicators can be applied to Surat Thani for Sustainable Development Goal 10, covering income equality, labour wages, expenditures, discrimination, migration, and refugee populations.

Upon reviewing the Surat Thani Provincial Development Plan (2023-2027), no development plan directly addressing income inequality reduction was found. However, there is a relatively strong alignment with Development Issue 4: Strengthening Social Capacity for Quality of Life. This is particularly evident in projects prioritising the quality of life for vulnerable households, as indicated in TPMAP data.

#### **Indicator performance**

Monitoring and evaluating the indicators under Sustainable Development Goal 10 is not viable. Data on income and expenditure inequality, including wages and income of self-employed individuals, and data disclosure by Surat Thani province remain limited.

The report's appendix details other indicators that cannot yet be monitored and evaluated, including 10.1.1, 10.2.1, 10.3.1, 10.4.1, 10.7.1, 10.7.3, and 10.7.4.

# SDG 11 Make cities and human settlements inclusive, safe, resilient, and sustainable



For Sustainable Development Goal 11, are 13 indicators aligned with Surat Thani's development context, covering issues related to developing safe and sustainable cities. These include slum conditions, access to public transport, land use, public participation in urban planning, disaster impacts, waste and air pollution management, and public safety.

SDG 11 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 5: Natural Resource Management and Environmental Conservation for Sustainable Development. This development issue emphasises increasing green spaces in communities, disaster management, and proper waste management, including waste disposal and pollution control, in accordance with plans to ensure equitable and sustainable management practices.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
11.5.1	Number of affected persons attributed to disasters	4,906.77	1
	(person per 100,000 population) <sup>p</sup>		
11.5.2 (a)	Direct economic loss attributed to disasters concerning global gross	23.03	
	domestic product (GDP) (a) damage to infrastructure (million Baht)		
11.6.1	The proportion of municipal solid waste collected and managed in	21.50	1
	controlled facilities (percent)		
11.6.2	Annual mean levels of fine particulate matter (PM2.5) (µg/m³) P	15.87	4

Surat Thani Province's performance on the annual average PM2.5 indicator was above the national average. However, performance on indicators related to disaster-affected populations and solid waste management was below the national average. Furthermore, Surat Thani Province should disclose public information related to urban development, such as data on public park areas (11.7.1) and the proportion of slum communities (11.1.1). This will support the monitoring and evaluation of SDG indicators in the future.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 11.1.1, 11.2.1, 11.3.1, 11.3.2, 11.4.1, 11.5.2 (b), 11.7.1, 11.b.1, and 11.b.2.

# **SDG 12** Ensure sustainable consumption and production patterns



Surat Thani can adopt five indicators regarding Sustainable Development Goal 12, ranging from food loss and waste, hazardous waste and its treatment, and recycling, to sustainable procurement in the public sector and the installed renewable energy-generating capacity.

SDG 12 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 5: Natural Resource Management and Environmental Conservation for Sustainable Development. This involves promoting development and processing of recyclable materials for economic benefits and managing waste as alternative energy sources.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
12.4.2 (a)	Community hazardous waste generated per capita (kilogramme) P	0.01	4
12.4.2 (b)	The proportion of community hazardous waste treated (percent) P	75.00	2
12.5.1	Solid waste recycling rate (percent) P	25.39	2
12.a.1	Installed renewable energy-generating capacity (in watts per	292.65	4
	capita)		

Surat Thani Province's performance on all SDG 12 indicators was above the national average, including hazardous waste generated per capita and renewable energy production. However, the hazardous waste treatment and solid waste recycling were below the national average. For other indicators, Surat Thani Province and relevant agencies, such as the Department of Pollution Control, should collaborate to define indicators, establish cooperation in data collection, and make data publicly available. This will facilitate future monitoring and evaluation of SDG 12 indicators.

The report's appendix provides more details on other indicators, including 12.3.1 and 12.7.1, that cannot yet be monitored and evaluated.

# **SDG 13** The urgent action to combat climate change and its impacts

Four indicators were suitable for Surat Thani for Sustainable Development Goal 13, covering disaster impact management and reduction of greenhouse gas emissions.

SDG 13 aligns with the Surat Thani Provincial Development Plan (2023-2027) Development Issue 5: Natural Resource Management and Environmental Conservation for Sustainable Development. This development issue emphasises disaster management.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))		Level
13.1.1	Number of affected persons attributed to disasters		1
	(person per 100,000 population) <sup>P</sup>		

Surat Thani Province's performance on the indicator related to the number of disaster-affected populations was below the national average. For disaster preparedness plans, local Surat Thani governments need to consider aligning with the Sendai Framework for Disaster Risk Reduction 2015-2030. In addition, data on greenhouse gas emissions should be formally collected for monitoring and evaluation.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 13.1.2, 13.1.3, and 13.2.2.

# **SDG 14** Conserve and sustainably use the oceans, seas, and marine resources for sustainable development



For Sustainable Development Goal 14, 14 indicators fit Surat Thani's situation, namely plastic debris in marine and coastal areas, marine acidity, and important sites for marine biodiversity.

SDG 14 aligns with the Surat Thani Provincial Development Plan (2023-2027), under Development Issue 5: Natural Resource Management and Environmental Conservation for Sustainable Development.

#### **Indicator performance**

Currently, monitoring and evaluating indicators for this Sustainable Development Goal is impossible. Surat Thani should request data from the Department of Marine and Coastal Resources regarding coastal eutrophication, plastic debris in the sea, and marine acidity. Additionally, further studies regarding protected areas concerning marine areas are required. The management of pollution in rivers and canals in the Surat Thani area directly impacts the health and productivity of marine and coastal resources in the Gulf of Thailand.

The report's appendix provides more details on indicators, , including 14.1.1, 14.3.1, and 14.5.1, that cannot yet be monitored and evaluated.

**SDG 15** Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



Three indicators can be applied to the context of Surat Thani for Sustainable Development Goal 15. They cover issues regarding forest areas, important sites for terrestrial and freshwater biodiversity covered by protected areas, and land degradation.

SDG 15 aligns with the Surat Thani Provincial Development Plan (2023-2027) under Development Issue 5: Natural Resource Management and Environmental Conservation for Sustainable Development. This development issue emphasises the conservation and restoration of forests, including terrestrial and mangrove forest ecosystems.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
15.1.1	Forest area as a proportion of total land area (percent)	28.67	3

Surat Thani Province's performance on the indicator related to the proportion of forest area was below the national average. Further research is needed on soil quality, critical areas for biodiversity, the green mountain area index, and the proportion of degraded mountainous region.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 15.1.2, 15.3.1, 15.4.1, and 15.4.2.

**SDG 16** Promote peaceful and inclusive societies for sustainable development, provide access to justice for all, and build effective, accountable, and inclusive institutions at all levels



For Sustainable Development Goal 16, 19 indicators can suit Surat Thani. They cover issues regarding the safety of life and property, conflicts and violence, and access to public agencies and officials' services

SDG 16 aligns with the Surat Thani Provincial Development Plan (2023-2027) to enhance social empowerment for a better quality of life, it encompasses maintaining security, fostering stability in property and life, and improving service efficiency, particularly in the public health system.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
16.1.1	Number of cases of intentional homicide (case per 100,000 6.10		1
	population) <sup>P</sup>		
16.1.3	Number of arrest cases subjected to (a) attempted murder (b) physical	27.85	1
	violence, (c) sexual violence (case per 100,000 population) <sup>P</sup>		
16.2.2	Number of victims of human trafficking (person per 100,000	1.99	1
	population) <sup>P</sup>		
16.3.2	unsentenced detainees as a proportion of the overall prison	23.71	1
	population (percent)		
16.4.2	Number of firearm and explosive cases (case per 100,000 population) P	117.31	1
16.5.1	ITA Score of E4: A bribe by those public officials (point) P	97.11	3
16.6.2	ITA Score of section 6: Quality of public services (point) <sup>P</sup>	83.39	3
16.b.1	ITA Score of E2: Equitable service (point) P	88.34	4

Surat Thani Province's performance on indicators related to public service quality was above the national average. However, performance on physical, mental, and sexual violence, firearms cases, fairness in trials, bribery of officials, discrimination by government agencies, intentional homicidea and human trafficking was below the national average, Surat Thani Province needs to intensify efforts to address these issues seriously.

The report's appendix provides more details on other indicators that still need be monitored and evaluated, including 16.1.4, 16.2.1, 16.2.3, 16.3.1, 16.3.3, 16.5.2, 16.6.1, 16.7.1, 16.7.2, 16.9.1, and 16.10.1.

# **SDG 17** Strengthen the means of implementation and revitalise the Global Partnership for Sustainable Development



Seven indicators can be applied to Surat Thani's context for Sustainable Development Goal 17, namely strengthening financial resilience and technology, building multi-stakeholder partnerships, and building statistical capacity.

SDG 17 aligns with the Surat Thani Provincial Development Plan (2023-2027), which emphasises elevating the quality of life for the people by promoting smart urbanisation through investments in information technology across various dimensions.

#### **Indicator performance**

Indicator	Indicator name or name of dataset (in case of proxy indicator (P))	Average	Level
17.1.1	Total government revenue as a proportion of GPP (percent) 8.18		4
17.1.2	The proportion of domestic budget funded by domestic taxes	10.16	4
	(percent)		
17.8.1	The proportion of individuals using the Internet (percent)	57.02	2
17.17.1	Amount in United States dollars committed to public-private	7,749.25	
	partnerships for infrastructure (million Baht)		

Surat Thani Province's performance on the indicator related to the proportion of revenue to GPP and local tax collection was above the national average. However, performance on and internet access for the population were significantly below the national average. For these indicators, which are well below the national level, Surat Thani Province needs to take serious action to address these issues.

The report's appendix provides more details on other indicators that cannot yet be monitored and evaluated, including 17.6.1, 17.19.1, and 17.19.2.

# **Voice of the People**

## Methodology

The Sustainable Development and Sufficiency Economy Studies Centre. National Institute of Development Administration (NIDA) surveyed the opinion on sustainable development among the Surat Thani population. The methodological procedure for selecting a sample group to respond to the questionnaire was listed below:

Population refers to the people residing in the Surat Thani province area.

The sample group refers to people aged 18 or over, not less than 400 people from each province, with a total sample size of no fewer than 6,000.

#### Sampling

- (1) Purposive sampling was used at the provincial level, as specified by the employer. A total of 15 provinces were surveyed.
- (2) At the district level, purposive sampling was used for District 1, selecting only Mueang District. Simple random sampling conducted by computer was used for districts 2 and 3. A total of 45 districts from the 15 provinces were surveyed.
- (3) At the sub-district level, simple random sampling was used by selecting two subdistricts per 1 district. A total of 90 subdistricts from the 15 provinces were surveyed. Convenience sampling by collecting data in public gathering places was used to acquire the desired proportion of sample groups according to the characteristics of each subdistrict.

#### **List of districts and sub-districts**

where samples were collected in Surat Thani

	District	Sub-district
District 1	Mueang	Wat Pradu
	Surat	Khlong Noi
	Thani	
District 2	Phunphin	Tha Kham
		Bang Ngon
District 3	Ban Na	Khuan Si
	San	Phru Phi

#### Research Instrument

Questionnaire: Divided into three parts as follows: part 1- information regarding general characteristics, part 2 - urgent needs for improving the quality of life for you and your family, and part 3 – guidelines or conditions that would improve your quality of life

Quality inspection of research instrument: Advisers and experts considered and tested the instrument used in the research by administering it to a sample group resembling the actual population, with at least 30 sets per province.

#### **Data Collection**

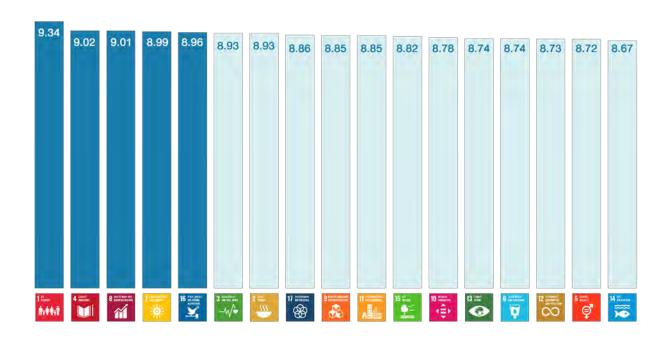
In-person Offline Survey: The National Institute of Development Administration collected a sample group of 400 individuals per province<sup>4</sup>, totaling 6,000 overall.

## **Survey Results**

In this survey, respondents were asked to rate urgent sustainable development issues from 0 to 10 (O represents the least urgent and 10 represents the most urgent). It suggested that the top 5 issues perceived by the population as most urgently needing development for quality-of-life improvement included the following:

- 1) SDG 1: End poverty in all its forms everywhere (score 9.34)
- 2) SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all (score 9.02)
- 3) SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all (score 9.01).
- 4) SDG 7: Affordable and Clean Energy (score 8.99)
- 5) SDG 16: Peace, Justice and Strong Institutions (score 8.96)

#### Opinions on the quality of life development issues in the Surat Thani area

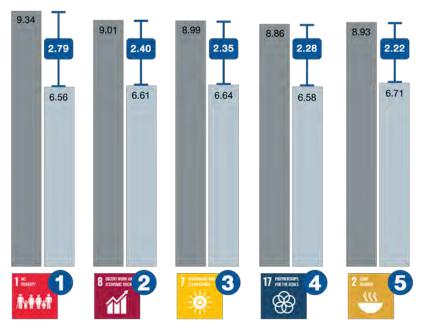


In addition, considering all five preliminary issues and comparing the gaps between public opinion scores on urgent needs and government action to address the problems, which were also rated on a scale of 0-10 (0 means there was the least government action and 10 means there was the most government action). The issues with the largest gap between the public expectation and the government action were:

- 1) SDG 1: End poverty in all its forms everywhere (score difference is 2.79)
- 2) SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all (score difference is 2.40).
- 3) SDG 7: Affordable and Clean Energy (score difference is 2.35)
- 4) SDG 17: Partnerships for the Goals (score difference is 2.28)
- 5) SDG 2: End hunger, achieve food security, and nutrition and promote sustainable agriculture (score difference is 2.22)

#### Gaps between public opinion scores on urgent needs and government action to address the problems

Urgent needs Government action to address the problems



This suggested that those in the Surat Thani area considered ending poverty the most urgent task. At the same time, there was dissatisfaction with the government's performance in addressing hunger and public health, two of the top urgent issues. Therefore, it is indispensable for Surat Thani Province to focus on solving these issues to ensure a more concrete performance.

Furthermore, the population in the Surat Thani area gave opinions on guidelines for improving the quality of life that were suitable for Surat Thani through the following top three approaches:

- 1) There is a decentralisation of capital resources and authority in local administration.
- 2) Appropriate local policies are developed and improved.
- 3) No corruption and increased efficiency in disclosing information for transparent management.



# Recommendations, Gaps, and **Opportunities for Development**

# Recommendations regarding SDG performance across all 17 goals.

In evaluating sustainable development goals, the result of the indicator assessment was used to determine equal weighted value by assigning the performance level into four groups, similar to the indicator assessment, namely:

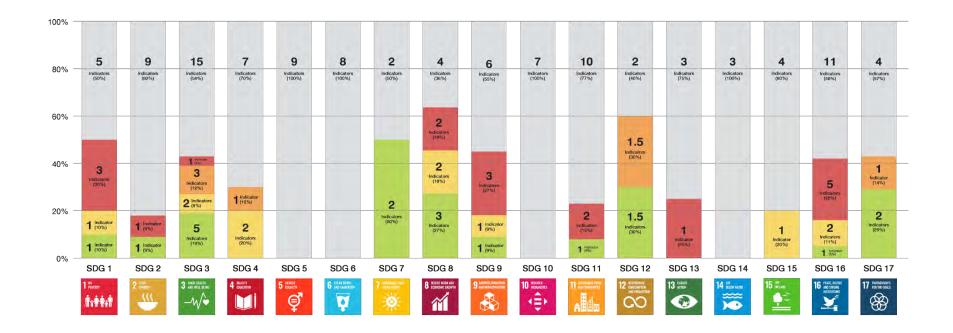
- Level 4: Higher than the national value
- Level 3: Lower than the national value, not more than 10 percent
- Level 2: Lower than the national value, between 10 and 20 percent
- Level 1: Lower than the national value, more than 20 percent

Listed below is the performance of each sustainable development goal of Surat Thani

Level 4	2 แจ้กความหัวใหย	3 สุขภาพเละ กวามเป็นอยู่ที่ดี	7 หลังงานสะอาก	12 การผลิกผล: การบริโภกที่ยังยืน	17 การเร่านมือเพื่อ การพัฒนาที่ยังยืน	
Level 3	4 การศึกษาที่มีคุณภาพ	8 งานที่มีคุณค่า ผละการเติบโต กางเศรษฐกิจ	15 ************************************			
Level 2						
Level 1	1 ชจักความยากจน	โครงสร้างพื้มฐาน มวิตกรรมสะ อุตสาหกรรม	11 iūsovarajueu ndotiu	13 การรับมือกับ การเปลี่ยนแปลง สภาษภูมิอากาค	16 กวามสงบสุข บุคีธรรมเละ สถาบันเชิมเชิง	
Cannot be monitored and evaluated	5 ความเค่าเกียน	6 นำละอากและ การสุขากีบาล	10 <sup>апполика</sup> бый 10 ф	14 nswunsnon:ia		

#### **Summary of indicators performance**

- Level 4: Higher than the national value
- Level 3: Lower than the national value, not more than 10 percent
- Level 2: Lower than the national value, between 10 and 20 percent
- Level 1: Lower than the national value, more than 20 percent
- Cannot be monitored and evaluated



# The overall performance of all 17 sustainable development

goals of Surat Thani (according to the assessment of 54 indicators that Surat Thani Province can be monitored and evaluated) has indicated that:



Surat Thani's performance on Sustainable Development Goals 2, 3, 7, 12, and 17 was better than the national average. That is, Surat Thani performed better in these Sustainable Development Goals than the rest of the country. This indicates that knowledge in these areas should be shared with other provinces with lower performance and similar contexts for learning purposes.



Surat Thani performed below national averages on Sustainable Development Goals 4, 8, and 1 by less than 10 percent. This indicates that the performance of these SDGs is close to the national level. Surat Thani Province can implement quick-win strategies by allocating resources to specific projects to improve performance above the national average.



Surat Thani's performance on Sustainable Development Goals 1, 9, 11, 13, and 16 is lower than the national average by over 20 percent. Surat Thani performed significantly worse than the national performance regarding these sustainable development goals. This indicates that significant challenges in these areas need to be addressed. Therefore, these underperforming indicators should be analysed to identify problems and challenges that may require resource mobilisation to assist in future improvement.



Sustainable Development Goals 5, 6, 10, and 14 could not be monitored and evaluated while preparing the sustainable development progress report. Thus, Surat Thani Province must coordinate with relevant agencies to request data on the indicators. Alternatively, respective agencies should collect and publicly disclose the data for monitoring and evaluation purposes.

#### Indicator performance and survey results

An analysis of Surat Thani's performance on key indicators and public concerns regarding urgent Sustainable Development Goals (SDGs) reveals a concerning gap. While the province excels in achieving 7 (Affordable and Clean Energy), exceeding national averages, its performance lags behind national levels for other priority - SDGs: 1 (No Poverty), 4 (Quality Education), 8 (Decent Work and Economic Growth) and 16 (Peace, Justice, and Strong Institutions). Surat Thani Province needs to prioritise the advancement of SDG 1 (particularly addressing poverty in all its dimensions, the population covered by social protection, and affected persons attributed to disasters), which is an urgent priority but currently shows performance significantly below the national average.

# Recommendations regarding the process of monitoring and evaluating indicators for sustainable development in the future

#### 1. Open data is essential.

This report shows the significant gaps in the limitations of open government data. For this reason, government agencies should coordinate and exchange critical data in monitoring and evaluating indicators. Furthermore, locally collected data (the open database https://suratthani.gdcatalog.go.th in the case of Suratthani) can contribute to a better understanding of sustainable development situations.

#### 2. Data disaggregation can improve an in-depth analysis of situations.

Disaggregation in the data collection process is essential for understanding the sustainable development situation of a subpopulation, particularly vulnerable populations. Therefore, relevant agencies, including Surat Thani Province, should disaggregate important data for indicators that require in-depth situation analysis, namely by gender (male, female, and LGBTQIA+), age, ethnicity, nationality, and disability status. Disaggregation by these data, adding with domicile, will help understand issues related to the non-registered population, which has become a pressing issue in Surat Thani.

# 3. Evaluating outcomes against target values will reveal the facts of the development.

Some indicators of Sustainable Development Goals have national/provincial target values and the timeframe for achieving those targets. Therefore, in addition to evaluating the performance of provincial indicators against the national average, comparing them to the target values or standard values will help the province recognise its level of sustainable development and lead to planning resource allocation for further development.

#### **Surat Thani's Development Gaps and Opportunities**

The analysis of indicator performance and survey data reveals that Surat Thani's development priorities are mainly related to social issues (poverty and education). The economic development, sustainable energy, and societal peace are also the main elements that must be promoted for all ethic groups.

Surat Thani must strengthen collaboration with regional government agencies to promote sustainable development. This includes aligning resource allocation with provincial development strategies and empowering local governments with the capacity to implement sustainable development projects at the local level.

Surat Thani's unique characteristics, such as the significant non-registerd population and heavy reliance on tourism, may affect certain indicators. Hence, it is imperative to consider the definitions of indicators to understand the reasons behind performance outcomes deviating from national averages. Key points about Surat Thani can be described below:

- The increasing presence of the non-registered population in the province has led to a decline in the efficiency of basic public services, particularly in the healthcare sector (SDGs 1, 3, 4, 9).
- The impacts of climate change on the province's coastal ecosystems have resulted in decreased ecological resilience and unsuitable conditions for tourism (SDGs 8, 13, 14).
- Engaging children and youth in natural resource conservation efforts (SDGs 6, 11, 12, 14).
- Mental health issues in people of all ages lead to an increased suicide rate, requiring the identification of root causes and proposing remedial measures (SDG 3).

To enhance Surat Thani's existing development projects, the province can adopt Sustainable Development Goals (SDGs) indicators to assess project outcomes effectively. This process would ensure that the development direction aligns with the UN's sustainability agenda.

#### **Endnotes**

- 1. Comparison of Surat Thani Population between December 2021 and December 2022. Based on the monthly civil registration population statistics from the Department of Provincial Administration.
- 2. National Economic and Social Development Board (NESDB) (2022). The GPP calculation uses the Chain Volume Series (CVMs) method (base year 2002). Chain volume series are not additive, so the sum of the components will not be equal to the shown totals.
- 3. Surat Thani Province (2024). Surat Thani Provincial Development Plan (2023-2027) https://www.suratthani.go.th/home/news-announcement/development-plan/2566-2570-2567.html
- 4. The sample size is calculated by applying the formulas of Yamane, Krejcie, and Morgan. The error value was set at  $\pm$  5% or 0.05.

The views expressed in this publication are those of the authors and do not necessarily represent those of the European Union, United Nations, including UNDP, or the UN Member States.



Appendix 1
SDG Profile
Research Methodology

# Research Methodology for Developing Provincial SDG Profiles Report

SDG Profile Report is a crucial tool for raising awareness among government agencies, private sector entities, organisations, and the public sector at the provincial level about the United Nations' sustainable development goals. Therefore, the methodology for developing this report will help provincial agencies see a systematic approach to reporting their province's development. The content is comprised of three main parts:

- (1) Selection of SDG indicators at the Provincial Level
- (2) Choosing databases for SDG indicators
- (3) Monitoring and evaluating SDG indicators

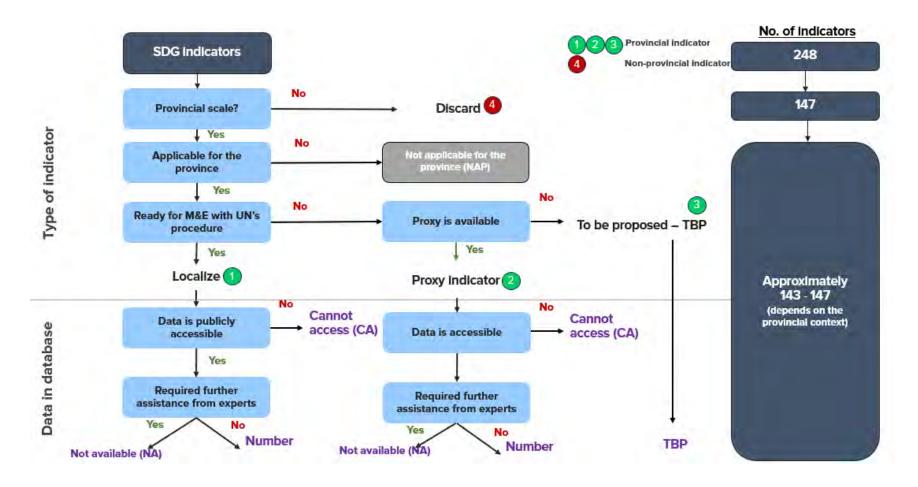
#### 1. Selection of SDG Indicators at the Provincial Level

The United Nations has developed the Sustainable Development Goals (SDGs), which consist of 17 goals covering various dimensions of development. These goals also encompass 169 sub-goals and 248 indicators<sup>1</sup>. The definitions, methodologies, and applicability of these sub-goals need to be considered to select the most appropriate ones for monitoring and evaluating at the provincial level.

In this study, the researchers selected SDG indicators using a tree diagram (Table A-1), which was from synthesising literature reviews related to the application of SDG at the local level (SDG Localisation). Literature reviews revealed that selecting indicators requires consideration of two critical factors: (1) the indicators' appropriateness to the local context and (2) the availability of databases to monitor the performance of the indicators.

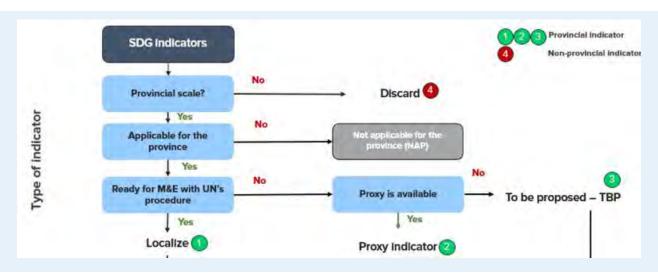
<sup>&</sup>lt;sup>1</sup> Find more details about the SDG indicators at https://unstats.un.org/sdgs/metadata/

Figure A-1: Tree diagram in selecting SDG Indicators at the provincial level



#### 1.1 Indicators' Appropriateness to the Local Context

Considering the appropriateness of indicators to the local context involves reviewing the definitions and methodologies for monitoring and evaluating these indicators to assess their potential for use at the provincial level. The researchers use the following questions for consideration:



- Is this SDG indicator suitable for measurement at the provincial level?: This question considers the United Nations methodology's section 5 regarding data availability and disaggregation. Researchers define indicators that are suitable for monitoring and evaluating at the provincial level as those with methods supporting the disaggregation of data by geographic location (such as urban/rural classification, national, provincial, or local) and demographic (such as gender, age, disability, education level, and nationality). If an indicator is primarily aimed at monitoring and evaluating performance at the international or national level and does not have the potential for disaggregating data to smaller scales, it will not be considered for use at the provincial level, which is referred to as a discarded indicator.
- Is this SDG indicator related to the geographical context of the province?: After selecting indicators that are suitable for monitoring and evaluation at the provincial level, the next question to consider is the alignment of indicators with the geographical characteristics or other specific contexts of the province, which include coastal and marine resources (related to SDG 14), forest and mountain resources (related to SDG 15), and areas under the Internal Security Act 2008 (related to SDG 16.1.2). If the province does not have geographical characteristics that align with the indicators, those indicators should not be applied to the province, referring to such indicators as "Not applicable indicators."
- Does this SDG indicator have methodologies for measuring performance according to the frameworks provided by the United Nations?: After selecting indicators that are related to the context of the province, the next question to consider is whether the current monitoring and evaluation approaches align with the definitions set by the United Nations. This question will categorise the indicators into 3 groups:

- o Localised indicator refers to indicators with monitoring and evaluating methodologies at the provincial level consistent with the frameworks of the United Nations. Therefore, existing works of relevant agencies can be used.
- o Proxy indicator refers to indicators with monitoring and evaluating methodologies at the provincial level closely aligned with the frameworks of the United Nations. They could be used as substitutes temporarily until monitoring and evaluation processes at the provincial level that align with the United Nations definitions are established.
- o To-be proposed indicator refers to indicators that currently do not exist or still lack monitoring and evaluation methodologies at the provincial level that align with the frameworks of the United Nations. As a result, monitoring and evaluating these indicators is still impossible. These indicators will require further study to develop monitoring and evaluation methodologies that align with Thailand's context for the future.

The selection of indicators through the process mentioned above aligns with the details provided in (Tabel A-1).

Table A-1: Results of indicator selection at the provincial level

Indicator	Indicators	Indicator type	Reason of discard
No.			
1.1.1	Proportion of the population living below the international poverty line by sex, age,	Discard	Evaluation at
	employment status, and geographic location (urban/rural)		international level
1.2.1	Proportion of the population living below the national poverty line, by sex and age	Localised	-
1.2.2	Proportion of men, women, and children of all ages living in poverty in all its dimensions	Localised	-
	according to national definitions		
1.3.1	Proportion of the population covered by social protection floors/systems, by sex,	Proxy	-
	distinguishing children, unemployed persons, older persons, persons with disabilities,		
	pregnant women, newborns, work-injury victims, and the poor and the vulnerable		
1.4.1	Proportion of the population living in households with access to basic services	Localised	-
1.4.2	Proportion of the total adult population with secure tenure rights to land, (a) with legally	Proxy	-
	recognized documentation, and (b) who perceive their rights to land as secure, by sex		
	and type of tenure		
1.5.1	Number of deaths, missing persons, and directly affected persons attributed to disasters	Proxy	-
	per 100,000 population		
1.5.2	Direct economic loss attributed to disasters in relation to global gross domestic product	Proxy	-
	(GDP)		
1.5.3	Number of countries that adopt and implement national disaster risk reduction strategies	TBP	-
	in line with the Sendai Framework for Disaster Risk Reduction 2015–2030		
1.5.4	Proportion of local governments that adopt and implement local disaster risk reduction	TBP	-
	strategies in line with national disaster risk reduction strategies		
1.a.1	Total official development assistance grants from all donors that focus on poverty	Discard	Evaluation at
	reduction as a share of the recipient country's gross national income		international level
1.a.2	Proportion of total government spending on essential services (education, health, and	Discard	Evaluation at national
	social protection)		level

Indicator	Indicators	Indicator type	Reason of discard
No.			
1.b.1	Pro-poor public social spending	TBP	-
2.1.1	Prevalence of undernourishment	Proxy	-
2.1.2	Prevalence of moderate or severe food insecurity in the population, based on the Food	Localised	-
2.2.1	Insecurity Experience Scale (FIES)  Prevalence of stunting (height for age <-2 standard deviation from the median of the World Health Organization (WHO) Child Growth Standards) among children under 5	Localised	-
2.2.2	years of age  Prevalence of malnutrition (weight for height >+2 or <-2 standard deviation from the median of the WHO Child Growth Standards) among children under 5 years of age, by type (wasting and overweight)	Localised	-
2.2.3	Prevalence of anaemia in women aged 15 to 49 years, by pregnancy status (percentage)	Proxy	-
2.3.1	Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size	Proxy	-
2.3.2	Average income of small-scale food producers, by sex and indigenous status	Proxy	-
2.4.1	Proportion of agricultural area under productive and sustainable agriculture	Proxy	-
2.5.	Number of (a) plant and (b) animal genetic resources for food and agriculture secured in either medium- or long-term conservation facilities	TBP	-
2.5.2	Proportion of local breeds classified as being at risk of extinction	Discard	Evaluation at national
2.a.1	The agriculture orientation index for government expenditures	TBP	
2.a.2	Total official flows (official development assistance plus other official flows) to the agriculture sector	Discard	Evaluation at international level
2.b.1	Agricultural export subsidies	Discard	Evaluation at national level
2.c.1	Indicator of food price anomalies	Localised	-

Indicator	Indicators	Indicator type	Reason of discard
No.			
3.1.1	Maternal mortality ratio	Localised	-
3.1.2	Proportion of births attended by skilled health personnel	Localised	-
3.2.1	Under-5 mortality rate	Localised	-
3.2.2	Neonatal mortality rate	Localised	-
3.3.1	Number of new HIV infections per 1,000 uninfected population, by sex, age, and key populations	Localised	-
3.3.2	Tuberculosis incidence per 100,000 population	Localised	-
3.3.3	Malaria incidence per 1,000 population	Localised	-
3.3.4	Hepatitis B incidence per 100,000 population	Localised	-
3.3.5	Number of people requiring interventions against neglected tropical diseases	Localised	-
3.4.1	Mortality rate attributed to cardiovascular disease, cancer, diabetes, or chronic respiratory disease	Localised	-
3.4.2	Suicide mortality rate	Localised	-
3.5.1	Coverage of treatment interventions (pharmacological, psychosocial, and rehabilitation and aftercare services) for substance use disorders	Proxy	-
3.5.2	Alcohol per capita consumption (aged 15 years and older) within a calendar year in liters of pure alcohol	ТВР	-
3.6.1	Death rate due to road traffic injuries	Localised	-
3.7.1	Proportion of women of reproductive age (aged 15–49 years) who have their need for family planning satisfied with modern methods	ТВР	-
3.7.2	Adolescent birth rate (aged 10–14 years; aged 15–19 years) per 1,000 women in that age group	Localised	-
3.8.1	Coverage of essential health services	Proxy	-

Indicator	Indicators	Indicator type	Reason of discard
No.			
3.8.2	Proportion of the population with large household expenditures on health as a share of	TBP	-
	total household expenditure or income		
3.9.1	Mortality rate attributed to household and ambient air pollution	Proxy	-
3.9.2	Mortality rate attributed to unsafe water, unsafe sanitation, and lack of hygiene	Localised	-
	(exposure to unsafe Water, Sanitation, and Hygiene for All (WASH) services)		
3.9.3	Mortality rate attributed to unintentional poisoning	Localised	-
3.a.1	Age-standardized prevalence of current tobacco use among persons aged 15 years and	TBP	-
	older		
3.b.1	Proportion of the target population covered by all vaccines included in their national	Localised	-
	program		
3.b.2	Total net official development assistance to medical research and basic health sectors	Discard	Evaluation at national
			level
3.b.3	Proportion of health facilities that have a core set of relevant essential medicines	Localised	-
	available and affordable on a sustainable basis		
3.c.1	Health worker density and distribution	Localised	-
з.d.1	International Health Regulations (IHR) capacity and health emergency preparedness	Discard	Evaluation at national
			level
3.d.2	Percentage of bloodstream infections due to selected antimicrobial-resistant organisms	TBP	-
4.1.1	Proportion of children and young people (a) in grades 2/3; (b) at the end of primary; and	Localised	-
	(c) at the end of lower secondary achieving at least a minimum proficiency level in (i)		
	reading and (ii) mathematics, by sex		
4.1.2	Completion rate (primary education, lower secondary education, upper secondary	Localised	-
	education)	_	
4.2.1	Proportion of children aged 24–59 months who are developmentally on track in health,	Proxy	-
	learning, and psychosocial well-being, by sex		

Indicator	Indicators	Indicator type	Reason of discard
No.		a.cato. type	
4.2.2	Participation rate in organized learning (one year before the official primary entry age),	Localised	-
	by sex		
4.3.1	Participation rate of youth and adults in formal and non-formal education and training in	Proxy	-
	the previous 12 months, by sex		
4.4.1	Proportion of youth and adults with information and communications technology (ICT)	Proxy	-
	skills, by type of skill		
4.5.1	Parity indices (female/male, rural/urban, bottom/top wealth quintile and others such as	Localised	-
	disability status, indigenous peoples, and conflict-affected, as data become available) for		
	all education indicators on this list that can be disaggregated		
4.6.1	Proportion of the population in a given age group achieving at least a fixed level of	Localised	-
	proficiency in functional (a) literacy and (b) numeracy skills, by sex		
4.7.1	Extent to which (i) global citizenship education and (ii) education for sustainable	Discard	Evaluation at national
	development are mainstreamed in (a) national education policies; (b) curricula; (c)		level
	teacher education; and (d) student assessment		
4.a.1	Proportion of schools offering basic services, by type of service	Proxy	-
4.b.1	Volume of official development assistance flows for scholarships by sector and type of	Discard	Evaluation at national
	study		level
4.c.1	Proportion of teachers with the minimum required qualifications, by education level	Localised	-
5.1.1	Whether or not legal frameworks are in place to promote, enforce, and monitor equality	Discard	Evaluation at national
	and non-discrimination on the basis of sex.		level
5.2.1	Proportion of ever-partnered women and girls aged 15 years and older subjected to	Proxy	-
	physical, sexual, or psychological violence by a current or former intimate partner in the		
	previous 12 months, by form of violence and by age.		
5.2.2	Proportion of women and girls aged 15-49 years who have undergone female genital	Proxy	-
	mutilation/cutting, by age.		

Indicator	Indicators	Indicator type	Reason of discard
No.		maioator type	Theasen or discard
5.3.1	Proportion of women aged 20-24 years who were married or in a union before age 15	Localised	-
	and before age 18.		
5.3.2	Proportion of girls and women aged 15–49 years who have undergone female genital	TBP	-
	mutilation/cutting, b		
5.4.1	Proportion of time spent on unpaid domestic and care work, by sex, age, and location.	TBP	-
5.5.1	Proportion of seats held by women in (a) national parliaments and (b) local governments.	Localised	-
5.5.2	Proportion of women in managerial positions.	Discard	Evaluation at national
			level
5.6.1	Proportion of women aged 15-49 years who make their own informed decisions	TBP	-
	regarding sexual relations, contraceptive use, and reproductive health care.		
5.6.2	Number of countries with laws and regulations that guarantee full and equal access to	Discard	Evaluation at
	women and men aged 15 years and older to sexual and reproductive health care,		international level
	information and education		
5.a.1	(a) Proportion of total agricultural population with ownership or secure rights over	Localised	-
	agricultural land, by sex; and (b) share of women among owners or rights-bearers of		
	agricultural land, by type of tenure.		
5.a.2	Proportion of countries where the legal framework (including customary law) guarantees	Discard	Evaluation at
	women's equal rights to land ownership and/or control		international level
5.b.1	Proportion of individuals who own a mobile telephone, by sex.	Localised	-
5.c.1	Proportion of countries with systems to track and make public allocations for gender	Discard	Evaluation at
	equality and women's empowerment.		international level
6.1.1	Proportion of the population using safely managed drinking water services	Localised	-
6.2.1	Proportion of the population using (a) safely managed sanitation services and (b) a hand-	Proxy	-
	washing facility with soap and water		
6.3.1	Proportion of domestic and industrial wastewater flows safely treated	Localised	-

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Indicator No.	Indicators	Indicator type	Reason of discard
6.3.2	Proportion of bodies of water with good ambient water quality	Localised	_
6.4.1	Change in water-use efficiency over time	TBP	-
6.4.2	Level of water stress: freshwater withdrawal as a proportion of available freshwater resources	Proxy	-
6.5.1	Degree of integrated water resources management	Discard	Evaluation at national level
6.5.2	Proportion of transboundary basin area with an operational arrangement for water cooperation	Discard	Evaluation at national
6.6.1	Change in the extent of water-related ecosystems over time	TBP	-
6.a.1	Amount of water- and sanitation-related official development assistance that is part of a government-coordinated spending plan	Discard	Evaluation at international level
6.b.1	Proportion of local administrative units with established and operational policies and procedures for the participation of local communities in water and sanitation management	TBP	-
7.1.1	Proportion of the population with access to electricity	Proxy	-
7.1.2	Proportion of the population with primary reliance on clean fuels and technology	Localised	-
7.2.1	Renewable energy share in the total final energy consumption	Proxy	-
7.3.1	Energy intensity measured in terms of primary energy and GDP	Discard	Evaluation at national
7.a.1	International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems	Discard	Evaluation at international level
7.b.1	Installed renewable energy-generating capacity in developing countries (in watts per capita)	Proxy	-
8.1.1	Annual growth rate of real GDP per capita	Localised	-
8.2.1	Annual growth rate of real GDP per employed person	Localised	-

Indicator	Indicators	Indicator type	Reason of discard
No.			
8.3.1	Proportion of informal employment in total employment, by sector and sex	Localised	-
8.4.1	Material footprint, material footprint per capita, and material footprint per GDP	Discard	ไม่สามารถปรับใช <sup>้</sup>
			กับระดับจังหวัดได
8.4.2	Domestic material consumption, domestic material consumption per capita, and	Discard	Evaluation at national
	domestic material consumption per GDP		level
8.5.1	Average hourly earnings of employees, by sex, age, occupation, and persons with	Localised	-
	disabilities		
8.5.2	Unemployment rate, by sex, age, and persons with disabilities	Localised	-
8.6.1	Proportion of youth (aged 15–24 years) not in education, employment, or training	Localised	-
8.7.1	Proportion and number of children aged 5–17 years engaged in child labour, by sex and	Localised	-
	age		
8.8.1	Fatal and non-fatal occupational injuries per 100,000 workers, by sex and migrant status	Proxy	-
8.8.2	Level of national compliance with labour rights (freedom of association and collective	Discard	Evaluation at
	bargaining) based on International Labour Organization (ILO) textual sources and		international level
	national legislation, by sex and migrant status		
8.9.1	Tourism direct GDP as a proportion of total GDP and in growth rate	Proxy	-
8.10.1	(a) Number of commercial bank branches per 100,000 adults and (b) number of	Localised	-
	automated teller machines (ATMs) per 100,000 adults		
8.10.2	Proportion of adults (15 years and older) with an account at a bank or other financial	Proxy	-
	institution or with a mobile-money-service provider		
8.a.1	Aid for Trade commitments and disbursements	Discard	Evaluation at
			international level
8.b.1	Existence of a developed and operationalized national strategy for youth employment,	Discard	Evaluation at national
	as a distinct strategy or as part of a national employment strategy		level
9.1.1	Proportion of the rural population who live within 2 km of an all-season road	Proxy	_

Indicator	Indicators	Indicator type	Reason of discard
No.			
9.1.2	Passenger and freight volumes, by mode of transport	Localised	-
9.2.1	Manufacturing value added as a proportion of GDP and per capita	Localised	-
9.2.2	Manufacturing employment as a proportion of total employment	Localised	-
9.3.1	Proportion of small-scale industries in total industry value added	Localised	-
9.3.2	Proportion of small-scale industries with a loan or line of credit	Localised	-
9.4.1	CO <sub>2</sub> emission per unit of value added	Localised	-
9.5.1	Research and development expenditure as a proportion of GDP	Localised	-
9.5.2	Researchers (in full-time equivalent) per million inhabitants	Localised	-
9.a.1	Total official international support (official development assistance plus other official	Discard	Evaluation at
	flows) to infrastructure		international level
9.b.1	Proportion of medium and high-tech industry value added in total value added	TBP	-
9.c.1	Proportion of the population covered by a mobile network, by technology	Proxy	-
10.1.1	Growth rates of household expenditure or income per capita among the bottom 40 per	Localised	-
	cent of the population and the total population		
10.2.1	Proportion of people living below 50 per cent of median income, by sex, age and	Localised	-
	persons with disabilities		
10.3.1	Proportion of the population reporting having personally felt discriminated against or	Proxy	-
	harassed in the previous 12 months on the basis of a ground of discrimination prohibited		
	under international human rights law		
10.4.1	Labour share of GDP	Localised	-
10.4.2	Redistributive impact of fiscal policy	Discard	Evaluation at national
			level
10.5.1	Financial Soundness Indicators	Discard	Evaluation at national
			level

Indicator	Indicators	Indicator type	Reason of discard
No. 10.6.1	Proportion of members and voting rights of developing countries in international organizations	Discard	Evaluation at international level
10.7.1	Recruitment cost borne by employee as a proportion of monthly income earned in the country of destination	TBP	-
10.7.2	Proportion of countries with migration policies that facilitate orderly, safe, regular and responsible migration and mobility of people	Discard	Evaluation at international level
10.7.3	Number of people who died or disappeared in the process of migration towards an international destination	TBP	-
10.7.4	Proportion of the population who are refugees, by country of origin	Proxy	-
10.a.1	Proportion of tariff lines applied to imports from least developed countries and developing countries with zero-tariff	Discard	Evaluation at international level
10.b.1	Total resource flows for development, by recipient and donor countries and type of flow (e.g., official development assistance, foreign direct investment, and other flows)	Discard	Evaluation at national level
10.c.1	Remittance costs as a proportion of the amount remitted	Discard	Evaluation at national
11.1.1	Proportion of urban population living in slums, informal settlements, or inadequate housing	Localised	-
11.2.1	Proportion of the population that has convenient access to public transport, by sex, age, and persons with disabilities	TBP	-
11.3.1	Ratio of land consumption rate to population growth rate	TBP	-
11.3.2	Proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically	TBP	-
11.4.1	Total per capita expenditure on the preservation, protection, and conservation of all cultural and natural heritage, by source of funding (public, private), type of heritage (cultural, natural), and level of government (national, regional, and local/municipal)	TBP	-

Indicator	Indicators	Indicator type	Reason of discard
No. 11.5.1	Number of deaths, missing persons, and directly affected persons attributed to disasters	Proxy	-
	per 100,000 population		
11.5.2	irect economic loss attributed to disasters in relation to global gross domestic product	Proxy	-
	(GDP) a) Damage to critical infrastructure and (b) number of disruptions to basic services,		
	attributed to disasters		
11.6.1	Proportion of municipal solid waste collected and managed in controlled facilities out of	Localised	-
	total municipal waste generated, by cities		
11.6.2	Annual mean levels of fine particulate matter (e.g., PM2.5 and PM10) in cities (population	Proxy	-
	weighted)		
11.7.1	Average share of the built-up area of cities that is open space for public use for all, by	Proxy	-
	sex, age, and persons with disabilities		
11.7.2	Proportion of persons victim of physical or sexual harassment, by sex, age, disability	Proxy	-
	status, and place of occurrence, in the previous 12 months		
11.a.1	Number of countries that have national urban policies or regional development plans	Discard	Evaluation at
	that (a) respond to population dynamics; (b) ensure balanced territorial development;		international level
	and (c) increase local fiscal space		
11.b.1	Number of countries that adopt and implement national disaster risk reduction strategies	TBP	-
	in line with the Sendai Framework for Disaster Risk Reduction 2015–2030		
11.b.2	Proportion of local governments that adopt and implement local disaster risk reduction	TBP	-
	strategies in line with national disaster risk reduction strategies		
11.C.1	No indicator is currently listed under 11.c. See E/CN.3/2020/2, paragraph 23	Discard	In progress of
			development
12.1.1	Number of countries developing, adopting, or implementing policy instruments aimed at	Discard	Evaluation at
	supporting the shift to sustainable consumption and production		international level

Indicator No.	Indicators	Indicator type	Reason of discard
12.2.1	Material footprint, material footprint per capita, and material footprint per GDP	Discard	Evaluation at national level
12.2.2	Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP	Discard	Evaluation at national level
12.3.1	(a) Food loss index and (b) food waste index	Proxy	-
12.4.1	Number of parties to international multilateral environmental agreements on hazardous waste and other chemicals that meet their commitments and obligations in transmitting information as required by each relevant agreement	Discard	Evaluation at international level
12.4.2	(a) Hazardous waste generated per capita and (b) proportion of hazardous waste treated, by type of treatment	Proxy	-
12.5.1	National recycling rate, tons of material recycled	Proxy	-
12.6.1	Number of companies publishing sustainability reports	Discard	Evaluation at national
12.7.1	Number of countries implementing sustainable public procurement policies and action plans	TBP	-
12.8.1	Extent to which (i) global citizenship education and (ii) education for sustainable development are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment	Discard	Evaluation at national level
12.a.1	Installed renewable energy-generating capacity in developing countries (in watts per capita)	Localised	-
12.b.1	Implementation of standard accounting tools to monitor the economic and environmental aspects of tourism sustainability	Discard	Evaluation at national
12.c.1	Amount of fossil-fuel subsidies (production and consumption) per unit of GDP	Discard	Evaluation at national

Indicator	Indicators	Indicator type	Reason of discard
No.			
13.1.1	Number of deaths, missing persons, and directly affected persons attributed to disasters	Proxy	-
	per 100,000 population		
13.1.2	Number of countries that adopt and implement national disaster risk reduction strategies	TBP	-
	in line with the Sendai Framework for Disaster Risk Reduction 2015–2030		
13.1.3	Proportion of local governments that adopt and implement local disaster risk reduction	TBP	-
	strategies in line with national disaster risk reduction strategies		
13.2.1	Number of countries with nationally determined contributions, long-term strategies,	Discard	Evaluation at
	national adaptation plans, and adaptation communications, as reported to the secretariat		international level
	of the United Nations Framework Convention on Climate Change		
13.2.2	Total greenhouse gas emissions per year	Localised	-
13.3.1	Extent to which (i) global citizenship education and (ii) education for sustainable	Discard	Evaluation at national
	development are mainstreamed in (a) national education policies; (b) curricula; (c)		level
	teacher education; and (d) student assessment		
13.a.1	Amounts provided and mobilized in United States dollars per year in relation to the	Discard	Evaluation at
	continued existing collective mobilization goal of the \$100 billion commitment through to		international level
	2025		
13.b.1	Number of least developed countries and small island developing States with nationally	Discard	Evaluation at
	determined contributions, long-term strategies, national adaptation plans, and		international level
	adaptation communications, as reported to the secretariat of the United Nations		
	Framework Convention on Climate Change		
14.1.1	(a) Index of coastal eutrophication; and (b) plastic debris density	Proxy	-
14.2.1	Number of countries using ecosystem-based approaches to managing marine areas	Discard	Evaluation at
			international level
14.3.1	Average marine acidity (pH) measured at agreed suite of representative sampling	Localised	-
	stations		

Indicator	Indicators	Indicator type	Reason of discard
No.			
14.4.1	Proportion of fish stocks within biologically sustainable levels	Discard	Evaluation at national
			level
14.5.1	Coverage of protected areas in relation to marine areas	Proxy	-
14.6.1	Degree of implementation of international instruments aiming to combat illegal,	Discard	Evaluation at national
	unreported and unregulated fishing		level
14.7.1	Sustainable fisheries as a proportion of GDP in small island developing States, least	Discard	Evaluation at
	developed countries, and all countries		international level
14.a.1	Proportion of total research budget allocated to research in the field of marine	Discard	Evaluation at national
	technology		level
14.b.1	Degree of application of a legal/regulatory/policy/institutional framework which	Discard	Evaluation at national
	recognizes and protects access rights for small-scale fisheries		level
14.c.1	Number of countries making progress in ratifying, accepting and implementing through	Discard	Evaluation at
	legal, policy, and institutional frameworks, ocean-related instruments that implement		international level
	international law, as reflected in the United Nations Convention on the Law of the Sea,		
	for the conservation and sustainable use of the oceans and their resources		
15.1.1	Forest area as a proportion of total land area	Localised	-
15.1.2	Proportion of important sites for terrestrial and freshwater biodiversity that are covered	Proxy	-
	by protected areas, by ecosystem type		
15.2.1	Progress towards sustainable forest management	Discard	Evaluation at national
			level
15.3.1	Proportion of land that is degraded over total land area	TBP	-
15.4.1	Coverage by protected areas of important sites for mountain biodiversity	Proxy	-
15.4.2	(a) Mountain Green Cover Index and (b) proportion of degraded mountain land	TBP	-
15.5.1	Red List Index	Discard	Evaluation at national
			level

Indicator	Indicators	Indicator type	Reason of discard
No.			
15.6.1	Number of countries that have adopted legislative, administrative, and policy	Discard	Evaluation at
	frameworks to ensure fair and equitable sharing of benefits		international level
15.7.1	Proportion of traded wildlife that was poached or illicitly trafficked	Discard	Evaluation at national
			level
15.8.1	Proportion of countries adopting relevant national legislation and adequately resourcing	Discard	Evaluation at
	the prevention or control of invasive alien species		international level
15.9.1	(a) Number of countries that have established national targets in accordance with or	Discard	Evaluation at
	similar to Aichi Biodiversity Target 2 of the Strategic Plan for Biodiversity 2011–2020 in		international level
	their national biodiversity strategy and action plans and the progress reported towards		
	these targets; and (b) integration of biodiversity into national accounting and reporting		
	systems, defined as implementation of the System of Environmental-Economic		
	Accounting		
15.a.1	(a) Official development assistance on conservation and sustainable use of biodiversity;	Discard	Evaluation at
	and (b) revenue generated and finance mobilized from biodiversity-relevant economic		international level
	instruments		
15.b.1	(a) Official development assistance on conservation and sustainable use of biodiversity;	Discard	Evaluation at
	and (b) revenue generated and finance mobilized from biodiversity-relevant economic		international level
	instruments		
15.c.1	Proportion of traded wildlife that was poached or illicitly trafficked	Discard	Evaluation at national
			level
16.1.1	Number of victims of intentional homicide per 100,000 population, by sex and age	Proxy	-
16.1.2	Conflict-related deaths per 100,000 population, by sex, age, and cause	Localised	-
16.1.3	Proportion of the population subjected to (a) physical violence, (b) psychological	Proxy	-
	violence, and (c) sexual violence in the previous 12 months		

Indicator	Indicators	Indicator type	Reason of discard
No.			
16.1.4	Proportion of the population that feel safe walking alone around the area they live after	Proxy	-
	dark		
16.2.1	Proportion of children aged 1–17 years who experienced any physical punishment and/or	Proxy	-
	psychological aggression by caregivers in the past month		
16.2.2	Number of victims of human trafficking per 100,000 population, by sex, age, and form of	Localised	-
	exploitation		
16.2.3	Proportion of young women and men aged 18–29 years who experienced sexual	TBP	-
	violence by age 18		
16.3.1	Proportion of victims of violence in the previous 12 months who reported their	Proxy	-
	victimization to competent authorities or other officially recognized conflict resolution		
	mechanisms		
16.3.2	Unsentenced detainees as a proportion of the overall prison population	Localised	-
16.3.3	Proportion of the population who have experienced a dispute in the past two years and	TBP	-
	who accessed a formal or informal dispute resolution mechanism, by type of mechanism		
16.4.1	Total value of inward and outward illicit financial flows (in current United States dollars)	Discard	Evaluation at national
			level
16.4.2	Proportion of seized, found, or surrendered arms whose illicit origin or context has been	Proxy	-
	traced or established by a competent authority in line with international instruments		
16.5.1	Proportion of persons who had at least one contact with a public official and who paid a	Proxy	-
	bribe to a public official or were asked for a bribe by those public officials during the		
	previous 12 months		
16.5.2	Proportion of businesses that had at least one contact with a public official and that paid	TBP	-
	a bribe to a public official or were asked for a bribe by those public officials during the		
	previous 12 months		

Indicator	Indicators	Indicator type	Reason of discard
No.			
16.6.1	Primary government expenditures as a proportion of the original approved budget, by	Localised	-
	sector (or by budget codes or similar)		
16.6.2	Proportion of the population satisfied with their last experience of public services	Proxy	-
16.7.1	Proportions of positions in national and local institutions, including (a) the legislatures; (b)	TBP	-
	the public service; and (c) the judiciary, compared to national distributions, by sex, age,		
	persons with disabilities, and population groups		
16.7.2	Proportion of the population who believe decision-making is inclusive and responsive,	TBP	-
	by sex, age, disability, and population group		
16.8.1	Proportion of members and voting rights of developing countries in international	Discard	Evaluation at
	organizations		international level
16.9.1	Proportion of children under 5 years of age whose births have been registered with a	Localised	-
	civil authority, by age		
16.10.1	Number of verified cases of killing, kidnapping, enforced disappearance, arbitrary	TBP	-
	detention, and torture of journalists, associated media personnel, trade unionists, and		
	human rights advocates in the previous 12 months		
16.10.2	Number of countries that adopt and implement constitutional, statutory, and/or policy	Discard	Evaluation at
	guarantees for public access to information		international level
16.a.1	Existence of independent national human rights institutions in compliance with the Paris	Discard	Evaluation at national
	Principles		level
16.b.1	Proportion of the population reporting having personally felt discriminated against or	Proxy	-
	harassed in the previous 12 months on the basis of a ground of discrimination prohibited	,	
	under international human rights law		
17.1.1	Total government revenue as a proportion of GDP, by source	Localised	-

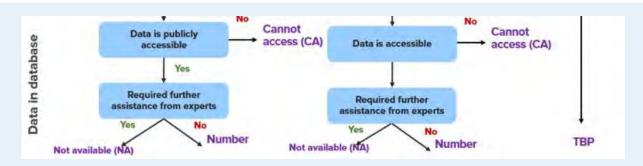
Indicator	Indicators	Indicator type	Reason of discard
No. 17.1.2	Proportion of domestic budget funded by domestic taxes	Localised	-
17.2.1	Net official development assistance, total and to least developed countries, as a	Discard	Evaluation at
	proportion of the Organization for Economic Cooperation and Development (OECD)		international level
	Development Assistance Committee donors' gross national income (GNI)		
17.3.1	Additional financial resources mobilized for developing countries from multiple sources	Discard	Evaluation at international level
17.3.2	Volume of remittances (in United States dollars) as a proportion of total GDP	Discard	Evaluation at international level
17.4.1	Debt service as a proportion of exports of goods and services	Discard	Evaluation at national
17.5.1	Number of countries that adopt and implement investment promotion regimes for	Discard	Evaluation at
	developing countries, including the least developed countries		international level
17.6.1	Fixed Internet broadband subscriptions per 100 inhabitants, by speed	Localised	-
17.7.1	Total amount of funding for developing countries to promote the development, transfer,	Discard	Evaluation at
	dissemination, and diffusion of environmentally sound technologies		international level
17.8.1	Proportion of individuals using the Internet	Localised	-
17.9.1	Dollar value of financial and technical assistance (including through North-South, South-	Discard	Evaluation at
	South, and triangular cooperation) committed to developing countries		international level
17.10.1	Worldwide weighted tariff-average	Discard	Evaluation at
			international level
17.11.1	Developing countries' and least developed countries' share of global exports	Discard	Evaluation at
			international level
17.12.1	Weighted average tariffs faced by developing countries, least developed countries, and	Discard	Evaluation at
	small island developing States		international level

Indicator	Indicators	Indicator type	Reason of discard
No.			
17.13.1	Macroeconomic Dashboard	Discard	Evaluation at national
			level
17.14.1	Number of countries with mechanisms in place to enhance policy coherence of	Discard	Evaluation at
	sustainable development		international level
17.15.1	Extent of use of country-owned results frameworks and planning tools by providers of	Discard	Evaluation at national
	development cooperation		level
17.16.1	Number of countries reporting progress in multi-stakeholder development effectiveness	Discard	Evaluation at
	monitoring frameworks that support the achievement of the sustainable development		international level
	goals		
17.17.1	Amount in United States dollars committed to public-private partnerships for	Localised	-
	infrastructure		
17.18.1	Statistical capacity indicator for Sustainable Development Goal monitoring (The IAEG-	Discard	Evaluation at national
	SDGs is currently reviewing a statistical capacity indicator for 17.18.1)		level
17.18.2	Number of countries that have national statistical legislation that complies with the	Discard	Evaluation at
	Fundamental Principles of Official Statistics		international level
17.18.3	Number of countries with a national statistical plan that is fully funded and under	Discard	Evaluation at
	implementation, by source of funding		international level
17.19.1	Dollar value of all resources made available to strengthen statistical capacity in	TBP	-
	developing countries		
17.19.2	Proportion of countries that (a) have conducted at least one population and housing	Localised	-
	census in the last 10 years; and (b) have achieved 100 per cent birth registration and		
	80 per cent death registration		

#### 1.2 Databases' Availability to Monitor the Indicators' Performance

After selecting suitable indicators for monitoring and evaluating at the provincial level, the next step is considering databases' availability for monitoring performance. In this step, researchers collected data from meetings with provincial agencies to gather feedback and in-depth interviews with government agencies, providing data sources for various indicators. The researcher will collect data for the past 10 years (between 2013 - 2023). However, researchers have encountered limitations regarding the availability of data for localised and proxy indicators, as follows:

 Data is inaccessible: Because some data collected by government agencies is not publicly accessible on open databases, data collection for certain indicators is impossible. If researchers are aware of methodologies for monitoring and evaluating indicators by relevant agencies that align with the United Nations' frameworks but cannot access the data, they will label the information as "Cannot access—CA."



Data is not immediately available: Some indicators have complex data collection methodologies, requiring further study to analyse the data according to the United Nations' frameworks. While such data may be accessible to the public, it may not be immediately usable. In such cases, researchers will label the information as "Not applicable—NA."

#### 2. Choosing databases for SDG indicators

Regarding the availability of databases for monitoring indicators' performance, as mentioned in Section 1.2, there may be more than one database suitable for doing so. Therefore, it is essential to consider selecting the most appropriate database. The researcher uses the following three principles to assess databases:

# 1. The database uses the same methodology for data collection at both the national and provincial levels.

Researchers select the database that uses the same methodology at national and provincial levels to ensure that the data can be compared across provinces and with national figures. Therefore, most databases chosen for this report are from government agencies that collect national and provincial data. However, using local databases (such as open data from the Bangkok Metropolitan Administration or the Government Data Catalog from the National Statistical Office, which compiles provincial data) will also be beneficial for future monitoring and evaluation of indicators, especially if data cannot be found from government agencies' databases.

#### 2. It is an official and formal database.

Researchers select formal databases from government agencies involved in operations related to sustainable development goals. These databases must disclose their data collection methodologies and continuously collect data to ensure that the monitoring and evaluation processes can be ongoing and referenced internationally.

# 3. Database's data collection methodology closely aligns with United Nations frameworks.

For some indicators, there may be more than one government database that meets the criteria 1 and 2. In such instances, researchers will select the database with a data collection methodology that aligns closest to that of the United Nations, ensuring that the monitoring and evaluation approaches align closely with the Sustainable Development Goals.

#### 3. Monitoring and evaluating SDG indicators

For monitoring and evaluating the SDG indicators in this report, researchers have compared the provincial level performances with the national level performances, using the averages from the past 10 years (from 2013 to 2023) or only the years in which data is available. The performance levels are categorised into four levels as follows:

- Level 4: Performance Higher than the national value
- Level 3: Performance Lower than the National Value, Not More Than 10 Percent
- Level 2: Performance Lower than the National Value, Between 10 and 20 Percent
- Level 1: Performance Lower than the National Value, More Than 20 Percent

The four performance levels mentioned above aligns with the guidelines in the report "Provincial and Group Provincial Development Indicators" by the Office of the National Economic and Social Development Council.

Measuring indicators' performances can be carried out by comparing the province's performance against target values set at the national or provincial level. However, researchers have not conducted such comparisons, as most indicators lack target values. Examples of indicators with target values are detailed in Table A-2.

Therefore, setting target values for each indicator will be crucial in ensuring more comprehensive monitoring and evaluation of performance at the provincial level for the future.

**Table A-2: Indicators with Target Values** 

Indicators	Target Values	Reference
2.4.1 Proportion of agricultural area under	7.5 million rai and 10	Office of the National
productive and sustainable agriculture	million rai by 2025	Economic and Social
	and 2030,	Development Council
	respectively	
3.1.1 Maternal mortality ratio	17 deaths per	Ministry of Public Health
	100,000 births	
3.2.2 Neonatal mortality rate	3.6 per 1,000 births	Ministry of Public Health
3.3.2 Tuberculosis incidence per 100,000	88 deaths per	Ministry of Public Health
population	100,000 population	
	in 2021	
3.6.1 Death rate due to road traffic injuries	12 people per	Road Safety Thailand Centre
	100,000 population	
	in the year 2027	

Indicators	Target Values	Reference
6.3.1 Proportion of domestic and industrial	A reduction by half	Office of the National
wastewater flows safely treated		Economic and Social
		Development Council
7.2.1 Renewable energy share in the total final	30 percent in the	Energy Policy and Planning
energy consumption	year 2037	Office
8.2.1 Annual growth rate of real GDP per	2.5 percent per year	Office of the National
employed person		Economic and Social
		Development Council
11.6.2 Annual mean levels of fine particulate	PM 2.5 not	Pollution Control Department,
matter (e.g., PM2.5 and PM10) in cities (population	exceeding 50	Ministry of Natural Resources
weighted)	micrograms per	and Environment
	cubic meter	
13.2.2 Total greenhouse gas emissions per year	A reduction of 40	Department of Climate
	percent by the year	Change and Environment
	2037	
14.5.1Coverage of protected areas in relation to	10 percent in the	Department of Marine and
marine areas	year 2020	Coastal Resources



# Appendix 2 SDG Profile Surat Thani

## Appendix: Details of Indicators, Datasets, Analysis, and Recommendations

### SDG 1 End poverty in all its forms everywhere

Indicator No.	Indicators	Datasets	Organisations
1.2.1	Proportion of population living below the national poverty line	Proportion of population living in poverty when measuring consumption expenditures classified by province	Office of the National Economic and Social Development Council
1.2.2	Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions	ТРМАР	<ol> <li>Office of the National Economic and Social Development Council</li> <li>National Electronics and Computer Technology Centre</li> </ol>
1.3.1	Proportion of population covered by social protection systems classified by sex, children, the unemployed, the elders, disabled people, pregnant women, newborns, work-injury victims, the poor and the vulnerable	Proportion of population covered by social protection systems	Office of the National Economic and Social Development Council
1.4.1	Proportion of population living in households with access to basic services	-	-
1.4.2	Proportion of total adult population with secure tenure rights to land classified by sex and type of tenure, meaning they (a)	Proportion of population with secure tenure rights to land	Office of the National Economic and Social Development Council

Indicator No.	Indicators	Datasets	Organisations
	acquire legal documentations and (b) perceive their rights to land		
1.5.1	Number of deaths, missing person and directly affected person attributed to disasters per 100,000 people	Number of affected persons attributed to disasters (percent)	Office of the National Economic and Social Development Council
1.5.2	Direct economic loss in relation to global gross domestic product (GDP)	(a) Economic loss attributed to disasters (b) -	(a) National Statistical Office (b) -
1.5.3	Number of countries that implement national disaster risk reduction strategies that aligns with the Sendai Framework for Disaster Risk Reduction 2015-2030	-	-
1.5.4	Proportion of local governments that implement local disaster risk reduction strategies that aligns with national disaster risk reduction strategies	-	-
1.b.1	Pro-poor public social spending	-	-

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	1.2.1	Throughout the years, the proportion of Surat Thani's population living in poverty as measured by consumption expenditures had been consistently lower than the national average. Between 2013 and 2017, the proportion of Surat Thani's population living in poverty as measured by consumption expenditures was between 1.14 and 2.79 percent. However, between 2018 and 2022, the proportion increased to be between 3.00 and 4.96 percent.

Performance Lower than the National Value, Not More Than 10 Percent	Indicator No.	Analysis
Level 3	1.4.2	Between 2018 and 2019, the percentage of Surat Thani's population with secure tenure rights to land had outperformed the national average. However, on average, the percentage of Surat Thani's population with secure tenure rights to land is 77.15, which is below the national average by 7 percent.

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
Level 1	1.2.2	The proportion of people in Surat Thani Province living in poverty in all its dimensions has continuously decreased. However, each year, the proportion has been consistently higher than the national average. On average, the proportion of people in Surat Thani Province living in poverty in all its dimensions is 15.35 percent, which is higher than the national average by 62 percent.
	1.3.1	The proportion of Surat Thani's population covered by social protection systems rises throughout the years. However, each year, the proportion remained lower than the national average.
	1.5.1	The number of deaths, missing persons, and those directly affected by disasters in Surat Thani province has fluctuated but remained higher than the national average throughout the years. On average, the number of deaths, missing persons, and those directly affected by disasters in Surat Thani province is 4,906.77 people per 100,000 population.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani	1.4.1	Municipalities in Surat Thani collects information on the "proportion of population with access to basic services". However, this information is not disclosed to the public.
Province coordinate with other agencies or the data owners to disclose it for public purposes.	1.5.2 (b)	The Office of the National Economic and Social Development Council (NESDC) and the Department of Disaster Prevention and Mitigation (DDPM) compiled environmental statistics, which were not released to the public.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	1.5.3, 1.5.4	It is compulsory to develop monitoring and evaluation frameworks that assess the alignment of Surat Thani's existing disaster management plans with the Sendai Framework for Disaster-led Risk Reduction 2015-2030.
	1.b.1	It is essential to establish tracking and assessment methodologies that categorise and consolidate budgets regarding education, public health, and direct financial support for the poor.

Indicator 1.5.2 is an indicator for which national-level comparisons cannot be made since the data only represents the aggregated values of all provinces. The average economic loss in relation to global gross domestic product per province from 2013 to 2023 is 23.03 million baht per year.

### SDG 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Indicator No.	Indicators	Datasets	Organisations
2.1.1	Prevalence of undernourishment	-	-
2.1.2	Prevalence of moderate or severe food insecurity in	-	-
	the population based on the Food Insecurity		
	Experience Scale (FIES)		
2.2.1	Prevalence of stunting	-	-
2.2.2	Prevalence of malnutrition	-	-
2.2.3	Prevalence of anaemia in women aged 15 to 49 years by pregnancy status	Percentage of anaemia in pregnant women	Ministry of Public Health
2.3.1	Volume of production per labour unit by classes of	Value of production per labour unit	1) National Statistical Office
	farming/pastoral/forestry enterprise size		2) Office of the National
			Economic and Social
			Development Council
2.3.2	Average income of small-scale food producers by	-	-
	sex and indigenous status		
2.4.1	Proportion of agricultural area under productive and	-	-
	sustainable agriculture		
2.5.1 (a)	Number of plant genetic resources for food and	-	-
	agriculture secured in either medium- or long-term		
	conservation facilities		
2.5.1 (b)	Number of animal genetic resources for food and	-	-
	agriculture secured in either medium- or long-term		
	conservation facilities		

Indicator No.	Indicators	Datasets	Organisations
2.a.1	The agriculture orientation index for government expenditures	-	-
2.c.1	Indicator of food price anomalies	-	-

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	2.3.1	Surat Thani's value of production per labour unit has consistently been higher than the national average despite fluctuations throughout the years.

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
Level 1	2.2.3	The prevalence of anaemia in pregnant women in Surat Thani has consistently been higher than the national average despite fluctuations throughout the years.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for	2.1.1	The Office of the National Economic and Social Development Council collected data only at the national level and for Bangkok. It is necessary for relevant agencies to collect data for Surat Thani Province.
relevant agencies to gather data.	2.2.1 2.2.2 (a) 2.2.2 (b)	The data for these indicators were not collected annually. Protocols to collect and analyse data annually must be considered.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other agencies or the data owners to disclose it for public purposes.	2.3.2	Office of Agricultural Economics collected data on "agricultural cash income" in its data inventory, which was disclosed only at the national level. Surat Thani Province must coordinate with the agency to request this data.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	2.1.2, 2.4.1, 2.5.1, and 2.a.1	It is essential to develop new monitoring and evaluation approaches that are aligned with the Sustainable Development Goal indicators.
The supporting data of the indicators is being collected, but it is essential to rely on experts to gather additional information. A thorough study should be conducted to present future data analysis.	2.c.1	The abnormal food price indicator was calculated using time series food price data. In the future, it is necessary to calculate this index using Surat Thani's food price data.

### SDG 3 Ensure healthy lives and promote well-being for all at all ages

Indicator No.	Indicators	Datasets	Organisations
3.1.1	Maternal mortality ratio	Maternal mortality ratio	Ministry of Public Health
3.1.2	Proportion of births attended by skilled health personnel	-	-
3.2.1	Under-5 mortality rate	Under-5 mortality rate	Ministry of Public Health
3.2.2	Neonatal mortality rate	-	-
3.3.1	Number of new HIV infections per 1,000 uninfected population classified by sex, age, and key populations	Estimated number HIV patients and people at risk for HIV	Ministry of Public Health
3.3.2	Tuberculosis incidence per 100,000 population	-	-
3.3.3	Malaria incidence per 1,000 population	Malaria incidence	Ministry of Public Health
3.3.4	Hepatitis B incidence per 100,000 population	Hepatitis B incidence	Ministry of Public Health
3.3.5	Number of people requiring interventions against neglected tropical diseases	-	-
3.4.1	Mortality rate attributed to cardiovascular disease, cancer, diabetes, or chronic respiratory disease	-	-
3.4.2	Suicide mortality rate	Suicide mortality rate by location	Ministry of Public Health
3.5.1	Coverage of treatment interventions (pharmacological, psychosocial, and rehabilitation and aftercare services) for substance use disorders	Retention rate of substance use disorders	Ministry of Public Health
3.5.2	Alcohol per capita consumption (aged 15 years and older) within a calendar year in litters of pure alcohol	-	-
3.6.1	Death rate due to road traffic injuries	Death rate due to road traffic injuries	Ministry of Public Health

Indicator No.	Indicators	Datasets	Organisations
3.7.1	Proportion of women of reproductive age (aged 15–49 years) who have their need for family planning satisfied with	-	-
	modern methods		
3.7.2	Adolescent birth rate (aged 10–14 years; aged 15–19 years) per 1,000 women in that age group	-	-
3.8.1	Coverage of essential health services	Coverage of Universal	National Health Security
		Coverage Scheme	Office
3.8.2	Proportion of the population with large household expenditures on health as a share of total household expenditure or income	-	-
3.9.1	Mortality rate attributed to household and ambient air pollution	The incidence rate of respiratory system diseases attributed to ambient air pollution	Ministry of Public Health
3.9.2	Mortality rate attributed to unsafe water, unsafe sanitation, and lack of hygiene (exposure to unsafe Water, Sanitation, and Hygiene for All (WASH) services)	-	-
3.9.3	Mortality rate attributed to unintentional poisoning	-	-
3.a.1	Age-standardised prevalence of current tobacco use among persons aged 15 years and older	-	-
3.b.1	Proportion of the target population covered by all vaccines included in their national programme	-	-

Indicator No.	Indicators	Datasets	Organisations
3.b.3	Proportion of health facilities that have a core set of	-	-
	relevant essential medicines available and affordable on a		
	sustainable basis		
3.c.1		Ratio of health workers to	Ministry of Public Health
	Health worker density and distribution	people	
3.d.2	Percentage of bloodstream infections due to selected	_	-
	antimicrobial-resistant organisms		

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	3.3.1	Between 2013 and 2023, Surat Thani's HIV incidence continuously decreased. In 2013, the HIV incidence rate was 0.0985 person per 1,000 people, which decreased to 0.0319 person per 1,000 people by 2023.
	3.3.3	Between 2016 and 2021, Surat Thani's Malaria incidence had continuously decreased. In 2016, the Malaria incidence rate was 0.8389 person per 1,000 people, which decreased to 0.0047 person per 1,000 people by 2021.
	3.5.1	Between 2015 and 2022, Surat Thani's rate of drug users who have completed their treatment has increased. In 2015, the rate of drug users who have completed their treatment was 26 percent which increased to 76 percent by 2022.

Performance Higher than the National Value	Indicator No.	Analysis
	3.9.1	Between 2014 and 2022, the incidence rate of respiratory system diseases attributed to ambient air pollution in Surat Thani has fluctuated, making it difficult to clearly analyse the trend for this province. However, on average, the incidence rate of respiratory system diseases attributed to ambient air pollution is 0.98 person per 100,000 people.
	3.c.1	Between 2013 and 2021, the ratio of health workers to people in Surat Thani Province had continuously increased. In 2013, the ratio was 27.39 health workers per 10,000 people, which increased to 40.08 health workers per 10,000 people in 2021.

Performance Lower than the National Value, Not More Than 10 Percent	Indicator No.	Analysis
Level 3	3.2.1	Between 2013 and 2022, Surat Thani's under-5 mortality rate has fluctuated, making it difficult to clearly analyse the trend for this province. However, on average, Surat Thani's under-5 mortality rate is 8.8 person per 1,000 population.
	3.8.1	Between 2018 and 2023, Surat Thani's coverage rate of Universal Coverage Scheme had continuously decreased. In 2018, the rate was 99.95 percent, which slightly decreased to 99.57 percent by 2023.

Performance Lower than the National Value, Between 10 and 20 Percent	Indicator No.	Analysis
Level 2	3.1.1	Between 2013 and 2022, Surat Thani's maternal mortality ratio has fluctuated, making it difficult to clearly analyse the trend for this province. However, on average, Surat Thani's maternal mortality ratio is 27.6 person per 100,000 pregnant women.
	3.4.2	Between 2013 and 2022, the suicide mortality rate in Surat Thani has fluctuated making it difficult to clearly analyse the trend for this province. Between 2013 and 2019, the rate decreased by 2.15 person per 100,000 people. However, between 2019 and 2022, the rate increased by 3.59 person per 100,000 people.
	3.6.1	Between 2013 and 2022, Surat Thani's death rate due to road traffic injuries continuously decreased. In 2013, the death rate was 40.03 person per 100,000 people, which decreased to 24.22 person per 100,000 people by 2022.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	3.1.2	It is necessary to encourage relevant agencies to collect data for further performance evaluation.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other agencies or the	3.2.2 3.3.5 3.4.1	Surat Thani Province is required to request data from the Ministry of Public Health, which collects data by segregating ICD-10 codes that match the definition of each respective indicator in the Public Health Statistics Database, which is a closed database.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
data owners to disclose it for public	3.9.2 and	
purposes.	3.9.3	
	3.3.2	It is ideal that Surat Thani Province requests data from the Ministry of Public Health, which collects data on the "tuberculosis incidence rate" in the National Tuberculosis Information Programme (NTIP), which is a closed database.
	3.7.2	Surat Thani Province needs to request data from the Department of Provincial Administration, Ministry of Interior, which collects data on the "number of birth registrations among women aged 10-14 and 15-19 years" in the civil registration closed database.
	3.b.1	Surat Thani Province needs to request data from the Ministry of Public Health, which collects data related to "coverage of intake of essential vaccines" based on a survey on vaccination coverage, which is a closed database.
	3.b.3	It is recommended that the Surat Thani Province request data from the Ministry of Public Health, which collects data on the "percentage of drug items prescribed from the National List of Essential Drugs" in the National Drug Account, a closed database.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	3.5.2, 3.7.1, 3.8.2, 3.a.1 and 3.d.2	Relevant agencies, such as the Ministry of Public Health, could collect information through surveys to ensure coverage of all provinces and alignment with the definition of each indicator.

For most of the indicators under Sustainable Development Goal 3, the Ministry of Public Health formulated developmental target criteria through indicators for operations across areas. These criteria can be applied as the operation was compared with the overall national picture. However, Surat Thani Province needs to contact the Ministry of Public Health to request additional information.

# SDG 4 Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Indicator No.	Indicators	Datasets	Organisations
4.1.1	Proportion of children and young people (a) in	O-NET score of grade-12 students	Office of the National
	grades 2/3; (b) at the end of primary; and (c) at		Economic and Social
	the end of lower secondary achieving at least a		Development Council
	minimum proficiency level in (I) reading and (ii)		
	mathematics classified by sex		
4.1.2	Completion rate (primary education, lower	Completion rate (primary education, lower	Equitable Education
	secondary education, upper secondary	secondary education, upper secondary	Fund
	education, and vocational education)	education, and vocational education)	
4.2.1	Proportion of children aged 24–59 months who	Proportion of children aged 0-5 years who	Office of the National
	are developmentally on track in health, learning,	are developmentally on track	Economic and Social
	and psychosocial well-being classified by sex		Development Council
4.2.2	Participation rate in organized learning (one year	Participation rate of children in organized	Equitable Education
	before the official primary entry age) classified by	learning one year before the primary entry	Fund
	sex	age	
4.3.1	Participation rate of youth and adults in formal	Participation rate of youth and adults in	Office of the National
	and non-formal education and training in the	formal and non-formal education	Economic and Social
	previous 12 months, by sex		Development Council
4.4.1	Proportion of youth and adults with information	-	-
	and communications technology (ICT) skills, by		
	type of skill (a) computer (b) internet classified by		
	age groups		

Indicator No.	Indicators	Datasets	Organisations
4.5.1	Parity indices (female/male, rural/urban,	Parity indices of female/male student	Equitable Education
	bottom/top wealth quintile and others such as	(upper secondary education and	Fund
	disability status, indigenous peoples, and conflict-	vocational education)	
	affected, as data become available) for all		
	education indicators on this list that can be		
	disaggregated		
4.6.1	Proportion of the population in a given age group	-	-
	achieving at least a fixed level of proficiency in (a)		
	literacy and (b) numeracy skills classified by sex		
4.a.1	Proportion of schools offering basic services, by	Proportion of schools that have met the	Equitable Education
	type of service	standards for good quality or above	Fund
		(primary education, lower secondary	
		education, upper secondary education,	
		and vocational education)	
4.c.1	Proportion of teachers with the minimum	-	-
	required qualifications, by education level		

Performance Lower than the National Value by Less than 10 percent	Indicator No.	Analysis
	4.1.1	Between 2015 and 2022, the average O-NET score of grade-12 students in Surat Thani had continuously decreased. In 2015, the average O-NET score was 34.59, which decreased to 30.73 by 2022.
Level 3	4.2.1	Between 2015 and 2022, the proportion of children in Surat Thani aged 0-5 years who are developmentally on track has fluctuated. Between 2015 and 2019, the proportion increased continuously by 8.1 percent. However, between 2019 and 2022, the proportion decreased continuously by 13.31 percent.

Performance Lower than the National Value by 10-20 percent	Indicator No.	Analysis
Level 2		Between 2015 and 2022, Surat Thani's participation rate of youth and adults in formal and non-formal education had continuously increased. In 2015, the participation rate of youth and adults in formal and non-formal education was 64.93 percent, which increased to 74.44 percent by 2022.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani Province's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	4.6.1(a)	It is necessary to encourage the Office of the National Economic and Social Development Council to collect data for further performance evaluation.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani	4.4.1 (a, b)	Surat Thani Province should seek data from the Office of the National Economic and Social Development Council. This agency does collect data, but some are not publicly disclosed.
Province coordinate with other agencies or the data owners to disclose it for public purposes.	4.c.1	Surat Thani Province must request data from the Ministry of Education's Data Management Centre (DMC) database, which is a closed and unpublicised inventory
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	4.6.1(b)	Relevant agencies, such as the Ministry of Education and the Office of the National Economic and Social Development Council, are encouraged to conduct surveys to ensure data collection for all provinces and alignment with the definition of the indicator.

Indicators 4.2.1 and 4.3.1: Surat Thani Province has been affected by the COVID-19 outbreak since 2020, which has impacted education as follows:

- Indicator 4.2.1: The proportion of children between 0 and 5 years of age with age-appropriate development has shown a declining trend. This can be regarded as learning loss in children caused by the necessary closure of educational institutes and childcare centres during the initial stages of the COVID-19 outbreak, which disrupted their learning routines. Additionally, after the outbreak became less severe, the measures focused primarily on online education, which may not be as effective for young children.
- Indicator 4.3.1: The participation of youth and adults in both formal and non-formal education has shown an
  increasing trend after the COVID-19 outbreak. This may partly be a result of the increased demand for workforce
  skills among adults; during the COVID-19 outbreak, a significant number of people were seemingly unemployed or
  working less than 4 hours per day. In addition, workforce skill requirements have changed.

Indicators 4.1.2, 4.2.2, 4.5.1, and 4.a.1 are provincial-level indicators for which national-level comparisons cannot be made due to the lack of access to national data.

- Indicators 4.1.2: Completion rates for primary education, lower secondary education, upper secondary education, and vocational education in 2020 were as follows: 98.10 percent, 91.62 percent, 94.95 percent, and 73.44 percent.
- Indicators 4.2.2: The participation rate of children in organized learning one year before the primary entry age in 2020 was 80.38 percent.
- Indicators 4.5.1 (a): The parity index of female/male students in upper secondary education and vocational education is 1.61
- Indicators 4.5.1 (b): The parity index of female/male students in vocational education is 0.69.
- Indicators 4.a.1: Proportions of schools that have met the standards for good quality or above for pre-primary education, primary education, lower secondary education, upper secondary education, and vocational education are as follows: 50.00 percent, 100.00 percent, 100.00 percent, 100.00 percent, and 100.00 percent.

For most of the indicators under Sustainable Development Goal 4, the Ministry of Education formulated developmental target criteria through indicators for operations across areas. These criteria can be applied as the operation was compared with the overall national picture. However, Surat Thani Province needs to contact the Ministry of Education to request additional information about these criteria to ensure the alignment of its educational operations with national goals.

### SDG 5 Achieve gender equality and empower all women and girls

Indicator No.	Indicators	Datasets	Organisations
5.2.1	Proportion of ever-partnered women and girls aged 15	-	-
	years and older subjected to physical, sexual, or		
	psychological violence by a current or former intimate		
	partner in the previous 12 months classified by form of		
	violence and age.		
5.2.2	Proportion of women and girls aged 15 years and older	-	-
	subjected to physical, sexual, or psychological violence by		
	persons other than an intimate partner in the previous 12		
	months classified by location and age.		
5.3.1	Proportion of women aged 20-24 years who were married	-	-
	or in a union before age 15 and before age 18.		
5.3.2	Proportion of girls and women aged 15-49 years who	-	-
	have undergone female genital mutilation/cutting		
	classified by age.		
5.4.1	Proportion of time spent on unpaid domestic and care	-	-
	work classified by sex, age, and location.		
5.5.1	Proportion of seats held by women in (a) national	-	-
	parliaments and (b) local governments.		
5.6.1	Proportion of women aged 15-49 years who make their	-	-
	own informed decisions regarding sexual relations,		
	contraceptive use, and reproductive health care.		
5.a.1	(a) Proportion of total agricultural population with	-	-
	ownership or secure rights over agricultural land classified		

Indicator No.	Indicators	Datasets	Organisations
	by sex; and (b) share of women among owners or rights-		
	bearers of agricultural land, by type of tenure.		
5.b.1	Proportion of individuals who own a mobile telephone	-	-
	classified by sex.		

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	5.2.1	Data collection was carried out by the Ministry of Social Development and Human Security. However, it was not collected from all provinces, including Surat Thani Province. Therefore, relevant agencies are encouraged to collect additional data on this indicator for Surat Thani Province.
	5.3.1	Data collection was carried out by the National Statistical Office. However, it was not collected from all provinces, including Surat Thani Province. Therefore, relevant agencies are encouraged to collect additional data on this indicator for Surat Thani Province.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other	5.2.2	Surat Thani Province is required to request data from the Ministry of Social Development and Human Security, which collects data on the number of complaints filed by individuals who have experienced violence committed by partners and non-partners.
agencies or the data owners to disclose it for public purposes.	5.5.1	Surat Thani Province can use its workforce-related data by gender to follow up on performance.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
	5.a.1	Surat Thani Province should ask for data from (1) Agricultural Land Reform Office, Ministry of Agriculture and Cooperatives; (2) Department of Social Development and Welfare, Ministry of Social Development and Human Security.
	5.b.1	Surat Thani Province needs to request data from the National Statistical Office, which collects data on the percentage of the population by gender aged 6 years and over who own mobile phones.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	5.3.2 5.4.1 5.6.1	Relevant agencies are encouraged to collect information through surveys conduct surveys to ensure data collection for all provinces and alignment with the definition of each indicator.

### SDG 6 Ensure availability and sustainable management of water and sanitation for all

Indicator No.	Indicators	Datasets	Organisations
6.1.1	Proportion of the population using safely managed drinking water services	-	-
6.2.1	Proportion of the population using (a) safely managed sanitation services and (b) a handwashing facility with soap and water	-	-
6.3.1	Proportion of domestic and industrial wastewater flows safely treated	-	-
6.3.2	Proportion of bodies of water with good ambient water quality	-	-
6.4.1	Change in water-use efficiency over time	-	-
6.4.2	Level of water stress	-	-
6.6.1	Change in the extent of water-related ecosystems over time	-	-
6.b.1	Proportion of local administrative units with established and operational policies and procedures for the participation of local communities in water and sanitation management	-	-

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani Province's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	6.1.1, 6.2.1	Data collection has been conducted every ten years. Data for the years 1990, 2000, and 2010 are available. However, no data for 2020 can be found. For this reason, the National Statistical Office should continuously collect data to enable the evaluation of Surat Thani Province's performance in the future.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other agencies or the data owners to disclose it for public purposes.	6.3.1	Surat Thani Province is encouraged to request data from the Provincial Office of Natural Resources and Environment to devise this indicator.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	6.6.1, 6.b.1	It is essential to develop new monitoring and evaluation approaches that are aligned with the Sustainable Development Goal indicators.
The supporting data of the indicators is being collected, but it is essential to rely on experts to gather additional information. A thorough study should	6.3.2	Experts are needed to collect data and calculate indicator data (using existing data from the Water Quality Management Division, Pollution Control Department).
information. A thorough study should be conducted to present future data analysis.	6.4.1, 6.4.2	Experts are needed to collect data and calculate indicator data (the Office of National Water Resources is currently studying this).

### SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all

Indicator No.	Indicators	Datasets	Organisations
7.1.1	Proportion of the population with access to electricity	-	-
7.1.2	Proportion of the population with primary reliance on clean fuels and technology	-	-
7.2.1	Renewable energy share in the total final energy consumption	Renewable energy share in the total final energy consumption (kW per 1,000 GW)	Office of the National Economic and Social Development Council
7.b.1	Installed renewable energy-generating capacity in developing countries (MW)	<ul><li>(a) Installed renewable energy-generating capacity, categorised by province (MW)</li><li>(b) Installed renewable energy-generating capacity, categorized by province (watts per capita)</li></ul>	Department of Alternative Energy Development and Efficiency, Ministry of Energy

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	7.2.1 (b)	Between 2013 and 2021, Surat Thani's share of renewable energy consumption versus the final electricity consumption has continuously increased. In 2013, Surat Thani's share of renewable energy consumption versus the final electricity consumption was 108.69 kilowatts per 1,000 gigawatts, which increased to 133.39 kilowatts per 1,000 gigawatts in 2021.
	7.b.1 (b)	Between 2013 and 2021, Surat Thani's installed renewable energy- generating capacity has continuously increased. In 2013, Surat Thani's installed renewable energy-generating capacity was 35.32 watts per capita, which increased to 362.11 watts per capita in 2021.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	7.1.1	The Office of the National Economic and Social Development Council (NESDC) collects data on the "proportion of population with access to electricity" nationally. However, the agency still needs to collect data at the provincial level. Currently, only the population with the right to request electricity is considered, meaning they have legal documents and household registration. This data collection excludes the disadvantaged population who have no access to electricity. For this reason, relevant agencies need to improve data collection methods to enable accurate evaluation of this indicator.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani coordinate with other agencies or the data owners to disclose it for public purposes.	7.1.2	Surat Thani Province needs to request additional data from the Ministry of Energy, which currently collects data at the national level but does not disclose data at the provincial level.

Indicator 7.b.1 (a): This indicator cannot be compared with the national mean. Between 2015 and 2022, Surat Thani's installed renewable energy-generating capacity continuously increases by more than 351.91 megawatts.

### SDG 8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Indicator No.	Indicators	Datasets	Organisations
8.1.1	Annual growth rate of real GDP per capita	Gross Provincial Product (Chain	Office of the National Economic
		Volume Measures: CVM)	and Social Development
			Council
8.2.1	Annual growth rate of real GDP per employed	Gross Provincial Product (Chain	Office of the National Economic
	person	Volume Measures: CVM) and	and Social Development
		number of formal and informal	Council
		labours	
8.3.1	Proportion of informal employment in total	number of informal labours	National Statistical Office
	employment, by sector and sex		
8.5.1	Average hourly earnings of employees, by sex,	-	-
	age, occupation, and persons with disabilities		
8.5.2	Unemployment rate, by sex, age, and persons with	Unemployment rate	National Statistical Office
	disabilities		
8.6.1	Proportion of youth (aged 15–24 years) not in	Proportion of youth (aged 15–24	National Statistical Office
	education, employment, or training	years) not in education,	
		employment, or training	
8.7.1	Proportion and number of children aged 5–17 years	-	-
	engaged in child labour, by sex and age		
8.8.1	Fatal and non-fatal occupational injuries per	Fatal and non-fatal occupational	Social Security Office, Ministry
	100,000 workers, by sex and migrant status	injuries, categorised by severity	of Labour
		(within Workmen's Compensation	
		Fund)	

Indicator No.	Indicators	Datasets	Organisations
8.9.1	Tourism direct GDP as a proportion of total GDP	(a) Tourism revenue	Ministry of Tourism and Sports
	and in growth rate	(b) Growth rate of tourism	
		revenue	
8.10.1	(a) Number of commercial bank branches per	-	-
	100,000 adults and (b) number of automated teller		
	machines (ATMs) per 100,000 adults		
8.10.2	Proportion of adults (15 years and older) with an	-	-
	account at a bank or other financial institution or		
	with a mobile-money-service provider		

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	8.5.2	Surat Thani's unemployment rate has fluctuated between 2013 and 2021. Between 2016 and 2018, the unemployment rate has decreased by 0.48 percent. However, between 2019 and 2021, the unemployment rate has increased by 1.68 percent due to the onset of COVID-19. In 2022, the unemployment rate decreased.
	8.8.1 Between 2013 and 2020, the proportion of fatal and no occupational injuries in Surat Thani has continuously in 2013, the proportion of fatal and non-fatal occupationa 91 person per 100,000 people, increasing to 138 person 100,000 people in 2019. The proportion slightly decrease person per 100,000 people in 2020, but this number is than the number in 2013.	
	8.9.1 (b)	Between 2013 and 2021, the growth rate of income from Surat Thani's visitors has continuously decreases. In 2013, the growth rate was 43.26, decreasing to -88.73 percent in 2021. However, the growth rate seemed to increase in 2022.

Performance Lower than the National Value by Less than 10 percent	Indicator No.	Analysis
Level 3	8.3.1 Between 2013 and 2022, Surat Thani's percentage of infollowing labours has continuously decreased. In 2013, the percent 72.94, decreasing to 57.64 percent in 2022.	
	8.6.1	The percentage of youth in Surat Thani who are not in education, employment, or training (NEET) has increased. In 2016, the NEET percentage was 15.20, increasing to 17.9 percent in 2020.

Performance Lower than the National Value, More Than 20 Percent	Indicator No.	Analysis	
Level1	8.1.1	Between 2013 and 2021, on average, Surat Thani's annual growth rate of real GDP per capita was 0.05 percent. Since 2017, the growth rate has shown a downward trend. In 2017, the growth rat was 4.98 percent, decreasing to -14.79 percent in 2020.	
	8.2.1	Between 2013 and 2021, Surat Thani's annual growth rate of real GDP per employed person has fluctuated. The highest growth rate was 10.83 percent, which was achieved in 2017. The lowest growth rate was -18.96 percent, which was achieved in 2020. On average, Surat Thani's annual growth rate of real GDP per employed person is -1.16 percent.	

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	8.7.1 8.10.1 8.10.2	This is an indicator that underwent a survey, but on a non-yearly basis. The details at the provincial level of the data were absent. It is recommended to formulate survey approaches and research regulations to allow collection and analysis of data at the provincial level.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other agencies or the data owners to disclose it for public purposes.	8.5.1	Relevant agencies surveyed this indicator, but the results remained disclosed. It is recommended to compile and disseminate such data to the public.

Indicator 8.9.1 (a): This indicator cannot be compared with the national figure. Between 2013 and 2022, the trend of income from visitors in Surat Thani Province has been fluctuating. Between 2013 and 2018, the trend of income from visitors in Surat Thani continuously rise by 50,960.86 million Baht. However, between 2019 and 2021, income decreased when the COVID-19 crisis broke out. Compared to the amount of income in 2018, the amount of income in 2021 decreased by approximately 99,777.21 million Baht. In 2022, income rose again but the amount is still below the number in 2013.

## SDG 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Indicator No.	Indicators	Datasets	Organisations	
9.1.1	Proportion of the rural population who live	Proportion of village accessed to all-	Community Development	
	within 2 km of an all-season road	season road	Department, Ministry of Interior	
9.1.2 (a)	Passenger volumes, by mode of transport	-	-	
9.1.2 (b)	Freight volumes, by mode of transport	-	-	
9.2.1	Manufacturing value added as a proportion of	Manufacturing value added as a	Office of the National Economic	
	GDP and per capita	proportion of GDP and per capita	and Social Development Council	
9.2.2	Manufacturing employment as a proportion of	Manufacturing employment as a	National Statistical Office	
	total employment	proportion of total employment		
9.3.1	Proportion of small-scale industries in total	-	-	
	industry value added			
9.3.2	Proportion of small-scale industries with a	-	-	
	loan or line of credit			
9.4.1	CO <sub>2</sub> emission per unit of value added	-	-	
9.5.1	Research and development expenditure as a	-	-	
	proportion of GDP			
9.5.2	Researchers (in full-time equivalent) per	Researchers per million inhabitants	National Research Council of	
	million inhabitants		Thailand	
9.b.1	Proportion of medium and high-tech industry	-	-	
	value added in total value added			
9.c.1	Proportion of the population covered by a	Proportion of population having	National Statistical Office	
	mobile network, by technology	cellular phone		

Performance Higher than the National Value	Indicator No.	Analysis	
Level 4	9.1.1	The proportion of villages in Surat Thani with year-round access to main roads has continuously increased. In 2015, the percentage of villages with year-round access to main roads was 48.12, which increased to 62.82 percent by 2021. On average, the proportion of villages in Surat Thani with year-round access to main roads is 59.44 percent, which is slightly higher than the national average.	

Performance Lower than the National Value by Less than 10 percent	Indicator No.	Analysis
Level 3	9.c.1	The proportion of Surat Thani's population having cellular phones has continuously increased. In 2015, the percentage of people with cellular phone was 78.89, which increased to 96.30 percent by 2022. On average, the proportion of Surat Thani's population having cellular phone is 88.82 percent, which is slightly lower than the national average.

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
Level1	9.2.1 (a)	Surat Thani's proportion of value added by the manufacturing industry compared to the gross domestic products has been fluctuating throughout the years. On average, Surat Thani's proportion of value added by the manufacturing industry compared to the gross domestic products is 14.78 percent, which is significantly lower than the national average by 45 percent. This figure reflects the lesser weight of the manufacturing industry in Surat Thani.
	Surat Thani's proportion of value added by the manuindustry per capita has been fluctuating throughout to average, Surat Thani's proportion of value added by manufacturing industry per capita is 24,875.39 baht which is significantly lower than the national average	
	9.2.2	Surat Thani's manufacturing employment as a proportion of total employment has been fluctuating throughout the years. On average, Surat Thani's manufacturing employment as a proportion of total employment is 6.8 percent, which is significantly lower than the national average by 58 percent.
	9.5.2	In 2020, Surat Thani's proportion of researchers per million population is 566.62 researchers per 1 million people, which is lower than the national average.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	9.1.2	Relevant data have been collected by different agencies. Thus, experts are needed to collect and calculate data regarding the number of commuters and goods transported in Surat Thani.
	9.3.1	Part of relevant data were collected, but the data on the ratio of value added of small industries to total industries needed to be directly published. Additional compilation and calculation by experts are also critical.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani coordinate with other agencies or the data owners to disclose it for public purposes.	9.3.2	The Bank of Thailand collected data on the "proportion of small industries borrowing from Thai commercial banks and specialised financial institutions", but it was not accessible to the public.
Data collection for the indicators has yet to be carried out.  Definitions, methods, and guidelines for collecting data should be studied.	9.4.1, 9.5.1, and 9.b.1	It is indispensable to develop new indicators consistent with the sustainable development goal indicators.

### SDG 10 Reduce inequality within and among countries

Indicator No.	Indicators	Datasets	Organisations
10.1.1	Growth rates of household expenditure or income per capita among the bottom 40 per cent of the population and the total population	-	-
10.2.1	Proportion of people living below 50 per cent of median income, by sex, age and persons with disabilities	-	-
10.3.1	Proportion of the population reporting having personally felt discriminated against or harassed in the previous 12 months on the basis of a ground of discrimination prohibited under international human rights law	-	-
10.4.1	Labour share of GDP	-	_
10.7.1	Recruitment cost borne by employee as a proportion of monthly income earned in the country of destination	-	-
10.7.3	Number of people who died or disappeared in the process of migration towards an international destination	-	-
10.7.4	Proportion of the population who are refugees, by country of origin	-	_

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	10.3.1 and 10.7.4	This is an indicator that underwent a survey, but on a non-yearly basis. The details at the provincial level of the data were absent. It is recommended to formulate survey approaches and research regulations to allow collection and analysis of data at the provincial level.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other agencies or the data owners to disclose it for public purposes.	10.1.1 10.2.1 10.4.1	It is an indicator for which relevant agencies collected data, but public data that corresponded to the indicators in the sustainable development goals has yet to be found. For this reason, these agencies are encouraged to gather and disseminate necessary data and coordinate with local agencies to monitor the indicators at the provincial level.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	10.7.1 10.7.3	No data collection has been found for these indicators. The development of data collection should be formulated to be consistent with the sustainable development goals, ranging from defining indicators in the provincial context to the stage of collecting data to investigate the feasibility of monitoring the indicators.

#### SDG 11 Make cities and human settlements inclusive, safe, resilient and sustainable

Indicator No.	Indicators	Datasets	Organisations
11.1.1	Proportion of urban population living in slums, informal settlements, or inadequate housing	-	-
11.2.1	Proportion of the population that has convenient access to public transport, by sex, age, and persons with disabilities	-	-
11.3.1	Ratio of land consumption rate to population growth rate	-	-
11.3.2	Proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically	-	-
11.4.1	Total per capita expenditure on the preservation, protection, and conservation of all cultural and natural heritage, by source of funding (public, private), type of heritage (cultural, natural), and level of government (national, regional, and local/municipal)	-	_
11.5.1	Number of deaths, missing persons, and directly affected persons attributed to disasters per 100,000 population	Number of affected persons attributed to disasters	Office of the National Economic and Social Development Council
11.5.2	Direct economic loss attributed to disasters in relation to global gross domestic product (GDP) a) Damage to critical infrastructure and (b) number of disruptions to basic services, attributed to disasters	Direct economic loss attributed to disasters in relation to global gross domestic product (GDP) a) Damage to critical infrastructure and (b) number of disruptions to basic	National Statistical Office

Indicator No.	Indicators	Datasets	Organisations
		services, attributed to	
		disasters	
11.6.1	Proportion of municipal solid waste collected and managed	Municipal solid waste	1) Office of the National
	in controlled facilities out of total municipal waste generated,	properly treated (ton/day)	Economics and Social
	by cities		Development Council
			2) Pollution Control
			Department, Ministry of
			Natural Resources and
			Environment
11.6.2	Annual mean levels of fine particulate matter (e.g., PM2.5	Annual mean levels of fine	Pollution Control
	and PM10) in cities (population weighted)	particulate matter (PM 2.5)	Department, Ministry of
			Natural Resources and
			Environment
11.7.1	Average share of the built-up area of cities that is open	-	-
	space for public use for all, by sex, age, and persons with		
	disabilities		
11.7.2	Proportion of persons victim of physical or sexual	-	-
	harassment, by sex, age, disability status, and place of		
	occurrence, in the previous 12 months		
11.b.1	Number of countries that adopt and implement national	-	-
	disaster risk reduction strategies in line with the Sendai		
	Framework for Disaster Risk Reduction 2015–2030		

Indicator No.	Indicators	Datasets	Organisations
11.b.2	Proportion of local governments that adopt and implement	-	-
	local disaster risk reduction strategies in line with national		
	disaster risk reduction strategies		

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	11.6.2	Between 2018 and 2022, the annual average levels of fine particulate matter, particularly PM 2.5, in Surat Thani Province was slightly rising. In 2018 the annual average level of fine particulate matter in Surat Thani Province was 13.75 µg/m3, which increased to 16.23 µg/m3 in 2022.

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
Level1	11.5.1	The number of deaths, missing persons, and those directly affected by disasters in Surat Thani province has fluctuated between 2015 and 2022. On average, the number of deaths, missing persons, and those directly affected by disasters in Surat Thani province is 4,906.77 people per 100,000 population. However, in 2016, Surat Thani had the highest number of deaths, missing persons, and those directly affected by disasters, which was 10,600.54 people per

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
		100,000 population due to flooding during that year. In 2017, 2020 and 2022, the number was higher than the national average.
	11.6.1	Surat Thani's proportion of municipal solid waste collected and managed in controlled facilities out of total municipal waste generated has improved throughout the years. Between 2015 and 2018, the proportion increased from 1.59 percent to 43.92 percent. However, in 2020, the proportion decreased to 1.55 percent.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	11.7.1	The data for this indicator was not collected at the national and provincial level besides for Bangkok. Protocols to collect and analyse data at the provincial level must be considered.
	11.7.2	The indicator could be based on data collected in the Multiple Indicator Cluster Surveys (MICS), which assess the situation of children and women in Thailand. However, this survey was not sent out annually. Thus, relevant agencies are encouraged to develop a survey to monitor this indicator regularly.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other	11.1.1	Surat Thani Province should request data on the number of households in slums from the National Housing Authority.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
agencies or the data owners to disclose it for public purposes.	11.5.2 (b)	Surat Thani Province should ask for additional data from the Department of Disaster Prevention and Mitigation because the agency collects data corresponding to this indicator.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	11.3.1 11.3.2 and 11.4.1	Relevant agencies are encouraged to collect information through surveys conduct surveys to ensure data collection for all provinces and alignment with the definition of each indicator.
	11.b.1 11.b.2	It is compulsory to develop monitoring and evaluation frameworks that assess the alignment of Surat Thani Province's existing disaster management plans with the Sendai Framework for Disaster-led Risk Reduction 2015-2030.
The supporting data of the indicators is being collected, but it is essential to rely on experts to gather additional information. A thorough study should be conducted to present future data analysis.	11.2.1	Surat Thani Province has a dataset be used to analyse the proportion of the population that have access to public transportation, which requires experts to analyse.

Indicator 11.5.2 is an indicator for which national-level comparisons cannot be made since the data only represents the aggregated values of all provinces. The average economic loss in relation to global gross domestic product per province from 2013 to 2023 is 23.03 million baht per year.

#### SDG 12 Ensure sustainable consumption and production patterns

Indicator No.	Indicators	Datasets	Organisations
12.3.1	(a) Food loss index and (b) food waste index	-	-
12.4.2	(a) Hazardous waste generated per capita and (b) proportion	(a) Community hazardous	Pollution Control
	of hazardous waste treated, by type of treatment	waste generated per	Department, Ministry of
		capita (kilogramme)	Natural Resources and
		(b) Proportion of	Environment
		community hazardous	
		waste treated (percent)	
12.5.1	National recycling rate, tons of material recycled	Solid waste recycling rate	Pollution Control
		(percent)	Department, Ministry of
			Natural Resources and
			Environment
12.7.1	Number of countries implementing sustainable public	-	-
	procurement policies and action plans		
12.a.1	Installed renewable energy-generating capacity in	Installed renewable	Department of Alternative
	developing countries (in watts per capita)	energy-generating	Energy Development and
		capacity, categorized by	Efficiency, Ministry of
		province	Energy

Performance Higher than the National Value	Indicator No.	Analysis
Level 4	12.4.2 (a)	Surat Thani's performance in reducing the amount of hazardous waste generated per capita has consistently outperformed the national results.
	12.a.1	Surat Thani's installed capacity for renewable energy production has been higher than the country's bar. There was significant progress in 2015, with a value of 293.78 watts per capita, compared to 36.34 watts per capita in 2014.

Performance Lower than the National Value by 10-20 percent	Indicator No.	Analysis
Level 2	12.4.2 (b)	Since the data is only available for one year, it may not be possible to assess the province's trend for this indicator. Additionally, in 2020, Surat Thani Province's performance in treating hazardous waste was below the country's average.
	12.5.1	Surat Thani's solid waste recycling rate not only has been below the country's average but also has fluctuated throughout the years. The rate has increased since 2017 but then decreased after 2019.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	12.3.1	<ul> <li>(a) Food Loss Index: Data has yet to be collected. The Department of Agricultural Science is encouraged to embark on the studies at both the national and provincial levels. On the other hand, a study in Thailand was carried out by the Highland Research and Development Institute (Public Organisation). The study was implemented at the local level.</li> <li>(b) Food Waste Index: The Pollution Control Department has previously studied the elements of solid waste at the local administration level. For this reason, studies at the provincial level and dissemination of the data to the public should also be carried out.</li> </ul>
	12.7.1	Surat Thani Province and concerned agencies are encouraged to determine the definition of sustainable procurement and categorisation of procurement projects that fall under these definitions to allow for monitoring and evaluating this indicator.

#### SDG 13 Take urgent action to combat climate change and its impacts

Indicator No.	Indicators	Datasets	Organisations
13.1.1	Number of deaths, missing persons, and directly	Number of deaths, missing	Office of the National
	affected persons attributed to disasters per 100,000	persons, and directly affected	Economic and Social
	population	persons attributed to disasters per	Development Council
		100,000 population	
13.1.2	Number of countries that adopt and implement national	-	_
	disaster risk reduction strategies in line with the Sendai		
	Framework for Disaster Risk Reduction 2015–2030		
13.1.3	Proportion of local governments that adopt and	-	_
	implement local disaster risk reduction strategies in line		
	with national disaster risk reduction strategies		
13.2.2	Total greenhouse gas emissions per year	-	_

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
Level1	13.1.1	The number of deaths, missing persons, and those directly affected by disasters in Surat Thani province has fluctuated between 2015 and 2022. On average, the number of deaths, missing persons, and those directly affected by disasters in Surat Thani province is 4,906.77 people per 100,000 population. However, in 2016, Surat Thani had the highest number of deaths, missing persons, and those directly affected by disasters, which was 10,600.54 people per 100,000 population due to flooding during that year. In 2017, 2020 and 2022, the number was higher than the national average.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for Surat Thani's indicators have yet to be collected. This highlights the necessity for relevant agencies to gather data.	13.2.2	This indicator underwent a survey but on non-yearly basis. Additionally, the data at the provincial level was absent. Currently, relevant agencies are formulating survey approaches to allow collection or analysis of data at the provincial level.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	13.1.2, 13.1.3	It is compulsory to develop monitoring and evaluation frameworks that assess the alignment of Surat Thani's existing disaster management plans with the Sendai Framework for Disaster-led Risk Reduction 2015-2030.

## SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Indicator No.	Indicators	Datasets	Organisations
14.1.1	(a) Index of coastal eutrophication; and (b) plastic debris density	-	-
14.3.1	Average marine acidity (pH) measured at agreed suite of representative sampling stations	-	-
14.5.1	Coverage of protected areas in relation to marine areas	-	-

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for the indicators was collected but could not be accessed publicly. It is recommended that the Surat Thani coordinate with other agencies to request data or that the data owners disclose it for public purposes.	14.1.1, 14.3.1	It is ideal that Surat Thani Province coordinates to request data from data owners, which is the Department of Marine and Coastal Resources.
The supporting data of the indicators is being collected, but it is essential to rely on experts to gather additional information. A thorough study should be conducted to present future data analysis.	14.5.1	Data have been collected sporadically, requiring experts' assistance in gathering and calculating the details of the indicators. Furthermore, it is recommended that GIS data be prepared. This can help calculate the size of covered areas and the data of the key biodiversity areas.

# SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

Indicator No.	Indicators	Datasets	Organisations
15.1.1	Forest area as a proportion of total land area	Forest area as a proportion of province's total land area	Royal Forest Department, Ministry of Natural Resources and Environment
15.1.2	Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type	_	-
15.3.1	Proportion of land that is degraded over total land area	-	-
15.4.1	Mountainous areas for preserving biodiversity	_	-
15.4.2	(a) Mountain Green Cover Index and (b) proportion of mountain areas that are degraded or experiencing erosion	-	-

Performance Lower than the	Indicator	Analysis
National Value by Less than 10 percent	No.	
Level 3	15.1.1	Surat Thani Province has consistently ranked lower than the country's average regarding the ratio of forest areas to total land areas. On average, the proportion of forest area to land area in Surat Thani is 28.67 percent.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	15.3.1	Our proposal is that new monitoring and evaluation processes be formulated, and they should conform with the indicators of the sustainable development goals. Currently, the Land Development Department is developing a Land Degradation Neutrality indicator according to indicator 15.3.1 of the sustainable development goals.
	15.4.2	Our proposal is that new monitoring and evaluation processes be formulated, and they should conform with the indicators of the sustainable development goals.
The supporting data of the indicators is being collected, but it is essential to rely on experts to gather additional information. A thorough study should be conducted to present future data analysis.	15.1.2, 15.4.1	Data have been collected sporadically, requiring experts' assistance in gathering and calculating the details of the indicators. Furthermore, it is recommended that GIS data be prepared to help calculate the size of covered areas and the data of the key biodiversity areas.

# SDG 16 Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

Indicator No.	Indicators	Datasets	Organisations
16.1.1	Number of victims of intentional homicide per 100,000 population, by sex and age	Number of cases of intentional homicide	National Statistical Office
16.1.3	Proportion of the population subjected to (a) physical violence, (b) psychological violence, and (c) sexual violence in the previous 12 months	Number of arrest cases subjected to (a) attempted murder (b) physical violence, (c) sexual violence	National Statistical Office
16.1.4	Proportion of the population that feel safe walking alone around the area they live after dark	-	-
16.2.1	Proportion of children aged 1–17 years who experienced any physical punishment and/or psychological aggression by caregivers in the past month	-	-
16.2.2	Number of victims of human trafficking per 100,000 population, by sex, age, and form of exploitation	Number of victims of human trafficking	Ministry of Social Development and Human Security
16.2.3	Proportion of young women and men aged 18–29 years who experienced sexual violence by age 18	-	-
16.3.1	Proportion of victims of violence in the previous 12 months who reported their victimisation to competent authorities or other officially recognised conflict resolution mechanisms	-	-

Indicator No.	Indicators	Datasets	Organisations
16.3.2	Unsentenced detainees as a proportion of the	National Prisoner Statistics Report	Department of
	overall prison population		Corrections, Ministry of
			Justice
16.3.3	Proportion of the population who have experienced	-	-
	a dispute in the past two years and who accessed a		
	formal or informal dispute resolution mechanism, by		
	type of mechanism		
16.4.2	Proportion of seized, found, or surrendered arms	Statistics of cases in which the state is	National Statistical Office
	whose illicit origin or context has been traced or	the injured party (firearm and	
	established by a competent authority in line with	explosive)	
	international instruments		
16.5.1	Proportion of persons who had at least one contact	ITA Score of E4: A bribe by those	Office of the National
	with a public official and who paid a bribe to a public	public officials	Anti-Corruption
	official or were asked for a bribe by those public		Commission
	officials during the previous 12 months		
16.5.2	Proportion of businesses that had at least one	-	-
	contact with a public official and that paid a bribe to		
	a public official or were asked for a bribe by those		
	public officials during the previous 12 months		
16.6.1	Primary government expenditures as a proportion of	-	-
	the original approved budget, by sector (or by		
	budget codes or similar)		

Indicator No.	Indicators	Datasets	Organisations
16.6.2	Proportion of the population satisfied with their last experience of public services	ITA Score of section 6: Quality of public services	Office of the National Anti-Corruption Commission
16.7.1	Proportions of positions in national and local institutions, including (a) the legislatures; (b) the public service; and (c) the judiciary, compared to national distributions, by sex, age, persons with disabilities, and population groups	-	-
16.7.2	Proportion of the population who believe decision- making is inclusive and responsive, by sex, age, disability, and population group	-	-
16.9.1	Proportion of children under 5 years of age whose births have been registered with a civil authority, by age	-	-
16.10.1	Number of verified cases of killing, kidnapping, enforced disappearance, arbitrary detention, and torture of journalists, associated media personnel, trade unionists, and human rights advocates in the previous 12 months	-	-
16.b.1	Proportion of the population reporting having personally felt discriminated against or harassed in the previous 12 months on the basis of a ground of discrimination prohibited under international human rights law	ITA Score of E2: Equitable service	Office of the National Anti-Corruption Commission

Performance Higher than the National Value	Indicator No.	Analysis
Level 4		The ratio of Surat Thani's population who has reported having personally felt discriminated against or harassed has remained lower than the national average throughout the years but started to increase in 2023.

Performance Lower than the National Value by Less than 10 percent	Indicator No.	Analysis
Level 3	16.5.1	The proportion of people in Surat Thani who have contacted and offered bribery to government officials or have been asked for bribes has been lower than the national average and decreasing.
	16.6.2	The ratio of the population who were satisfied with public services has noticeably been lower than the national average and continues to decrease.

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
	16.1.1	The number of victims of intentional homicide in Surat Thani has been consistently higher than the national average. However, the

Performance Lower than the National Value by More than 20 percent	Indicator No.	Analysis
Level1		number of victims began to continuously decline recently. Therefore, Surat Thani Province, which has a service sector GDP proportion of over 60 percent, may need to intensify efforts to ensure the safety of residents and tourists in order to build their confidence in residing in the province.
	16.1.3	The number of attempted murders, physical assault, and rape cases per hundred thousand population in Surat Thani had exceeded the national average throughout the years. However, the number of cases began to continuously decline since 2019.
	16.2.2	The number of victims in human trafficking cases per hundred thousand population in Surat Thani has been higher than the national average. However, since 2020, the number has decreased due to border closures, flight cancellations and business slowdowns across all sectors as a result of the COVID-19 pandemic. However, recently, the number of victims in human trafficking cases has shown a slightly upward trend. Therefore, Surat Thani Province, as a renowned tourist destination, must closely monitor this indicator in collaboration with relevant agencies.
	16.3.2	The ratio of detainees in Surat Thani awaiting trial to the total number of detainees is higher than the national average but is projected to decline.
	16.4.2	The firearm case arrests in Surat Thani had exceeded the national average throughout the years. However, the number of firearm case arrests began to continuously decline since 2018.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	16.2.3, 16.3.3, 16.5.2, 16.7.1, 16.7.2 and 16.10.1	Data have yet to be collected according to the definition of the indicators, and data that can be appropriately used as a substitute for the indicators have been absent. Therefore, it is crucial to enforce new indicators in parallel to the indicators of the sustainable development goals.
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani coordinate with other agencies or the data owners to disclose it for public purposes.	16.1.4	Data can be requested by coordinating with the Royal Thai Police, which currently collects "Data on people's fear of crime" in the Criminal Record Information Management Enterprise System (CRIME), a closed database.
	16.2.1, and 16.3.1	A data request can be sent to the Ministry of Social Development and Human Security, which currently collects data regarding the 1300 Hotline database and the Thailand Database on Prosecution and Assistance to Victims of Human Trafficking (e-Anti Human Trafficking of Thailand, or E-AHT), which is a closed database.
	16.6.1	Data can be requested from the Ministry of Finance through the Government Fiscal Management Information System (GFMIS).
	16.9.1	A request for data can be made by contacting the Department of Provincial Administration, Ministry of Interior, which collects data on "the number of birth registrations by age" in the civil registration database, which is a closed platform.

### SDG 17 Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Indicator No.	Indicators	Datasets	Organisations
17.1.1	Total government revenue as a proportion of	Thailand Government Spending	Digital Government Development
	GDP, by source		Agency (Public Organisation) (DGA)
17.1.2	Proportion of domestic budget funded by	Thailand Government Spending	Digital Government Development
	domestic taxes		Agency (Public Organisation) (DGA)
17.6.1	Fixed Internet broadband subscriptions per 100 inhabitants, by speed	-	-
17.8.1	Proportion of individuals using the Internet	The population aged 6 years	National Statistical Office
		and older, categorised by the	
		use of information technology	
		and communication, by region,	
		province, and administrative	
		area, 2010 - 2020.	
17.17.1	Amount in United States dollars committed to	The Public-Private Partnerships	State Enterprise Policy Office
	public-private partnerships for infrastructure	investment plan 2020 - 2027	
17.19.1	Dollar value of all resources made available	-	-
	to strengthen statistical capacity in		
	developing countries		
17.19.2	Proportion of countries that (a) have	-	-
	conducted at least one population and		
	housing census in the last 10 years; and (b)		
	have achieved 100 percent birth registration		
	and 80 percent death registration		

Performance Higher than the National Value	Indicator No.	Analysis	
Level 4	17.1.1	Between 2015 and 2021, the proportion of revenue collected in Sura Thani compared to the Gross Provincial Product surpassed the country's mean, reflecting the province's high capacity in revenue collection.	
	17.1.2	Between 2015 and 2022, Surat Thani Province has consistently outperformed the national average in the ratio of the budget allocated from local taxes. However, since the pandemic, the proportion of domestic budget funded by domestic taxes has decreased.	

Performance Lower than the National Value by 10-20 percent	Indicator No.	Analysis
Level 2	17.8.1	The proportion of individuals using internet in Surat Thani has been below the country's average but has continuously increased since 2019. This highlights the province's ability to increase internet usage among the Surat Thani's population to increase their quality of life.

Not Sufficient for Monitoring and Evaluation	Indicator No.	Suggestion
Data for the indicators was collected but could not be accessed publicly. It is recommended that Surat Thani Province coordinate with other	17.6.1	Coordination can be undertaken to request data from the data owner, the Office of the National Broadcasting and Telecommunications Commission (NBTC).
agencies or the data owners to disclose it for public purposes.	17.19.2	Coordination can be undertaken to request data from the data owner, the Department of Provincial Administration.
Data collection for the indicators has yet to be carried out. Definitions, methods, and guidelines for collecting data should be studied.	17.9.1	It is essential to establish tracking and assessment methodologies to ensure budget into resources that promote statistical competency for Surat Thani Province.

Indicator 17.17.1: A comparison of this indicator with the country's figure is not feasible. Surat Thani sees a stable trend in the value of investments in Public-Private Partnership (PPP) projects. During 2021 - 2023, the value was between 7,115 – 7,134 million Baht. These projects include a freight terminal, a cruise ship terminal development on Koh Samui, and a wastewater collection and treatment system for Surat Thani City Municipality. Collectively, these projects represent 1% of the total value of PPP projects in Thailand in 2023.

#### Complete Research

Survey on the Overview Status of Thailand's Sustainable Development Goals

Ву

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This research project received a research grant from The United Nations Development Programme (UNDP).

#### Abstract

The objective of this research was to survey public opinions on the conditions of the Sustainable Development Goals (SDGs) in the target provinces using survey research methods. The sample group used in the study was the general public aged 18 years and over and residing in the target provinces, totaling 6,000 people. Analysis of data was conducted from questionnaires using frequency distribution statistics, percentages, and averages.

#### Research results

- 1. Information on general characteristics reveals that the majority of the sample are female, 54.78 percent. Aged between 36-45 years, 25.55 percent. 36.2 percent has secondary school education or equivalent. Most of them are Buddhists, 76.43 percent. Marital status of married is 59.95 percent. Their main occupation is the business owner/self-employment, 23.12 percent. Their average monthly income is 10,001-20,000 baht, 31.97 percent. Most of the sample group do not have vulnerable condition, 50.03 percent. However, when considering the sample group with vulnerable condition, it is found that the majority were temporary/daily employees, 34.99 percent.
- 2. On the issue of quality of life development, it is found that the majority of the sample group has opinions on the issue of quality of life development (It is rated on a scale of 0-10 with level 10 being the most urgent/resolved/addressed and level 0 the least.) as follows. (1) The top three urgent needs for improving quality of life are: No Poverty (SDG 1) with the average of 8.94, followed by Quality Education (SDG 4) with the average of 8.50, and Decent Work and Economic Growth (SDG 8) with the average of 8.35, and (2) Government action consists of the top three government problem solving issues which are Responsible Consumption and Production (SDG 12) with the average of 5.84, followed by Quality Education (SDG 4) with the average of 5.71, and Clean Water and Sanitation (SDG 6) with the average of 5.70, and the top three issues resulting from corrective action/management by the government sector are: Responsible Consumption and Production (SDG 12) with the highest average of 5.15, followed by Life on Land (SDG 15) with the average of 5.00, and Clean Water and Sanitation (SDG 6) with the average of 4.99.
- 3. As for the gap between the needs of the people and actions the government is taking to solve, when considering the urgent need to develop people's quality of life and the government's problem solving efforts, it is found that the gap between the needs of the people and actions that the government is taking to solve includes: 1) No Poverty (SDG 1) with gap scores of 3.52, 2) Zero Hunger (SDG 2) with gap scores of 2.87, 3) Decent

Work and Economic Growth (SDG 8) with gap scores of 2.84, 4) Quality Education (SDG 4) with gap scores of 2.79, and 5) Good Health and Well-being (SDG 3) with gap scores of 2.73.

4. For guidelines or conditions that will improve the quality of life, it is found that most of the sample group has opinions on ways or conditions that would improve their quality of life. The top three were: Developing and improving appropriate local policies, 47.23 percent, followed by no corruption and increases the efficiency of information disclosure for transparent management, 44.50 percent, and creating social and economic projects for comprehensive local development, 43.93 percent.

#### Contents

		Page
Abstract		Α
Contents		C
Tables		E
Illustrations	S	
Chapter 1	Introduction	1
	1.1 Background and significance of problems	1
	1.2 Research goals	
	1.3 Scope of research	
	1.4 Expected outcomes	
	1.5 Research framework	
	1.6 Research plan	5
Chapter 2	Literature and related studies	7
	2.1 Concepts and theories on basic needs	7
	2.2 Concepts on Sustainable Development Goals.	Ş
	2.3 Related studies	26
Chapter 3	Research methodology	37
	3.1 Population and sample groups	37
	3.2 Research instrument	46
	3.3 Data collection	48
	3.4 Data analysis and conclusions	49
Chapter 4	Results of Data Analysis	50
Chapter 5	Conclusion and Suggestion	179
	5.1 Conclusion	168
	5.2 Discussion	201
	5.3 Suggestion	207

#### Contents (Continued)

	Page
Bibliographies	209
Annexes	214
Annex A: Research instrument (Questionnaire)	215
Annex B: Field work photos - Trial of research instrument	220

#### Tables

Table		P	age'
	1.1	Research plan (2023)	5
	2.1	Grouping of development dimensions of the Sustainable Development Goa	als
		(17 goals)	16
	3.1	Population of target provinces per region, province and gender	38
	3.2	Yamane's table of sampling at 95% confidence level	39
	3.3	Krejcie and Morgan's table of sample size	40
	3.4	Sample size per region and province	41
	3.5	List of sample districts per region, province and district	42
	3.6	List of sample sub-districts per region, provice, district and sub-district	44
	3.7	Summary of research instrument trial	47
	4.1	Mean standard deviation of urgent needs and actions to solve problems o	f
		the government sector (overview)	55
	4.2	Number and percentage of approaches to improving quality of life	
		(overview)	58
	4.3	Mean standard deviation of urgent needs and actions to solve problems o	f
		the government sector (Chiang Rai Province)	63
	4.4	Number and percentage of approaches to improving quality of life	
		(Chiang Rai Province)	66
	4.5	Mean standard deviation of urgent needs and actions to solve problems o	
		the government sector (Chiang Mai Province)	71
	4.6	Number and percentage of approaches to improving quality of life	
		(Chiang Mai Province)	74
	4.7	Mean standard deviation of urgent needs and actions to solve problems o	f
		the government sector (Mae Hong Son Province)	79
	4.8	Number and percentage of approaches to improving quality of life	
		(Mae Hong Son Province)	
	4.9	Mean standard deviation of urgent needs and actions to solve problems o	
		the government sector (Tak province)	87
	4.10	Number and percentage of approaches to improving quality of life	
		(Tak province)	
	4.1	1 Mean standard deviation of urgent needs and actions to solve problems o	of
		the government sector (Bangkok)	95

#### Tables (Continued)

Table		Page
	4.12 Number and percentage of approaches to improving quality of life (Bangkok)	98
	4.13 Mean standard deviation of urgent needs and actions to solve problems	
	the government sector (Phetchaburi province)	
	4.14 Number and percentage of approaches to improving quality of life	
	(Phetchaburi province)	106
	4.15 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Udon Thani Province)	111
	4.16 Number and percentage of approaches to improving quality of life	
	(Udon Thani Province)	114
	4.17 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Nakhon Ratchasima Province)	119
	4.18 Number and percentage of approaches to improving quality of life	
	(Nakhon Ratchasima Province)	122
	4.19 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Ubon Ratchathani Province)	127
	4.20 Number and percentage of approaches to improving quality of life	
	(Ubon Ratchathani Province)	130
	4.21 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Surat Thani Province)	135
	4.22 Number and percentage of approaches to improving quality of life	
	(Surat Thani Province)	138
	4.23 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Phuket province)	143
	4.24 Number and percentage of approaches to improving quality of life	
	(Phuket province)	146
	4.25 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Songkhla province)	151
	4.26 Number and percentage of approaches to improving quality of life	
	(Songkhla province)	154
	4.27 Mean standard deviation of urgent needs and actions to solve problems	
	of the government sector (Pattani province)	159

#### Tables (Continued)

le Pag	<u>ş</u> e
4.28 Number and percentage of approaches to improving quality of life	
(Pattani province)16	52
4.29 Mean standard deviation of urgent needs and actions to solve problems	
of the government sector (Yala Province)16	57
4.30 Number and percentage of approaches to improving quality of life	
(Yala Province)17	'0
4.31 Mean standard deviation of urgent needs and actions to solve problems	
of the government sector (Narathiwat province)17	′5
4.32 Number and percentage of approaches to improving quality of life	
(Narathiwat province) 17	'8
5.1 The gap between the needs of the people and actions the government is	
taking to solve18	31
5.2 The gap between the needs of the people and actions the government is	
taking to solve of Chiang Rai Province18	32
5.3 The gap between the needs of the people and actions the government is	
taking to solve of Chiang Mai Province18	34
5.4 The gap between the needs of the people and actions the government is	
taking to solve of Mae Hong Son Province18	}5
5.5 The gap between the needs of the people and actions the government is	
taking to solve of Tak Province18	37
5.6 The gap between the needs of the people and actions the government is	
taking to solve of Bangkok Province18	38
5.7 The gap between the needs of the people and actions the government is	
taking to solve of Petchaburi Province19	90
5.8 The gap between the needs of the people and actions the government is	
taking to solve of Udon Thani Province19	1
5.9 The gap between the needs of the people and actions the government is	
taking to solve of Nakhon Ratchasima Province19	)3
5.10 The gap between the needs of the people and actions the government is	
taking to solve of Ubon Ratchathani Province19	)4

#### Tables (Continued)

Table	Pa	ige
	5.11 The gap between the needs of the people and actions the government is	
	taking to solve of Surat Thani Province1	96
	5.12 The gap between the needs of the people and actions the government is	
	taking to solve of Phuket Province1	97
	5.13 The gap between the needs of the people and actions the government is	
	taking to solve of Songkhla Province1	99
	5.14 The gap between the needs of the people and actions the government is	
	taking to solve of Pattani Province2	200
	5.15 The gap between the needs of the people and actions the government is	
	taking to solve of Yala Province2	02
	5.16 The gap between the needs of the people and actions the government is	
	taking to solve of Narathiwat Province	03

#### Illustrations

Illustration		Page
	1.1 Research framework	4
	2.1 Global and ASEAN SDG Index rankings for 2022	17
	2.2 Thailand's SDG Index rankings for 2021 and 2022	18
	2.3 Linkage between SDGs targets and Sub-Master Plans targets	of National
	Strategy's Master Plans	21

## Chapter 1 Introduction

#### 1.1 Background and significance of problems

Sustainable Development is a development guideline that responds to the needs of the current generation without disregarding the ability to respond to the needs of older generations (Brundtland Report, 1987). There are three factors to achieve Sustainable Development Goals. They include economic growth, social inclusion and environmental protection.

At the 70th Session of United Nations General Assembly on 25 September 2015 at its headquaters, all of the 193 member states including Thailand signed the 2023 Agenda for Sustainable Development. It served as a global development framework for mutual outcomes on sustainable social, economic and environment development without leaving anyone behind by 2023. Sustainable Development Goals (SDGs) were set in order to provide essential guidelines for each nation to implement together.

The 17 SDGs include 169 SDG targets. They are international, linked and supportive of one another. Additionally, 247 indicators have been set to follow up and assess the development progress. SDGs have been divided into groups based on five linking dimensional factors (5P) including; 1) People – focusing on elimination of poverty and starvation, and reducton of social inequality, 2) Planet – focusing on protection and conservation of natural resources and climate for upcoming global generations, 3) Prosperity – supporting people to live well and in harmony with nature, 4) Peace – adhering to peaceful co-existence in a harmonous society without division, and 5) Partnership – collaboration of all sectors to propel development agenda (Office of the National Economic and Social Development Council [NESDC], n.d.).

The United Nations Development Programme (UNDP) plays an important role in SDGs. It has supported and been a credible ally of the Thai Government and its people for more than 50 years. Implementation of the UNDP in Thailand is a support and drive to sustainably bring about postive change to the society in all dimensions according to the approach whereby humans are the core of collaborative programmes. Examples include human rights protection, increase of competency and equality to people as well as marginalised groups and so on. Additionally, the UNDP has collaborated with government agencies, private companies, educational institutions and the civil society to provide advice at the policy and expert levels in order to exchange knowledge and implementation development in various ways. For example, sustainable management of natural resources

and environment, biodiversity conservation, climate change adjustment, anti-corruption, building livable and sustainable communities, and social innovation development.

The SDGs push in Thailand is linked to the collaboration with the United Nations including; 1) upsacaling awareness and competency of agencies at provincial and local levels to implement activities that support sustainable development goals and push them at the regional and local levels, 2) facilitating collaborations between agencies at the provincial and local levels with the Thailand United Nations team including other relevant allies, 3) creating supportive environment in every province as well as allocating appropriate resources to develop the economy and society sustainably and 4) periodically conferring with one another to revise plans, implementation and progress towards sustainable development goals. The Foreign Affairs Division, Office of the Permanent Secretary for Interior has set an SDGs framework and an action plan to propel SDGs under responsibility of the Ministry of Interior for 2023. These included; 1) propelling SDGs with member organizations at the global level, 2) propelling SDGs at the regional level and 3) propelling SDGs spatially (Foreign Affaris Division, Office of Permanent Secretary for Interior, 2023).

The action plan to push SDGs by the Ministry of Interior has essential phases including; 1) stimulating SDGs awareness, 2) adjusting work processing, 3) implementing development and 4) following up, evaluating and aiming for completed implementation according to the collaboration framework with the United Nations. The UNDP has then chosen pilot provinces to propel SDGs accross every region in Thailand (North/Sourth/East/West). These are diverse in their social geography such as those bordering seas, inland, containing mountains and forests, large in size with a large population, small in size with a small population, highly urbanized, highly rural and so on. These SDGs localizations include 15 provinces; Chiangrai, Chiangmai, Maehongson, Tak, Udon Thani, Nakhon Ratchasrima, Ubon Ratchathani, Bangkok, Petchaburi, Phuket, Surat Thani, Songkhla, Pattani, Yala and Narathiwas. These are for the purpose of reporting the plan to propel SDGs in Thailand.

The Sustainable Development and Sufficiency Economy Studies Center (SuDSESC) at the National Institute of Development Administration (NIDA) undertook the survey on overview status of Thailand's Sustainable Development Goals to study and report the plan to propel SDGs in Thailand according to the collaboration framework with the United Nations. The SDGs localization included 15 provinces. This allowed findings in relation to Thailand's overview and its aspects of SDGs, the SDGs aspects that have not yet been developed, and their urgency levels. All of which have been used as data for future SDGs.

# 1.2 Research objectives

To survey opinions of people towards sustainable development goals in areas of targeted provinces.

# 1.3 Scope of research

#### 1.3.1 Areas

This research was conducted in 15 targeted provinces including Chiang Rai, Chiang Mai, Mae Hong Son, Tak, Udon Thani, Nakhon Ratchasrima, Ubon Ratcharthani, Bangkok, Phetchaburi, Phuket, Surat Thani, Songkhla, Pattani, Yala and Narathiwat.

#### 1.3.2 Time

The research was conducted between July to December 2023.

#### 1.3.3 Content

This research was conducted based on Sustainable Development Goals.

#### 1.3.4 Population

The population included people aged 18 and above living in 15 targeted provinces.

#### 1.3.5 Survey methods

For this research, the surveying units included:

- 1.3.5.1 Sustainable Development and Sufficiency Economy Studies Center herein referred to as "Reserach Team" or "SuDSESC". The survey involved data collection done via in-person offiline survey covering all of the 6,000 samples (400 people per province).
- 1.3.5.2 The UNDP and its networks used the online questionnaire covering all of the 150,000 samples (10,000 people per province). This online questionnaire was not under the SuDSESC's responsibility. This means SuDSESC was only involved in the design of the research instrument (Online Questionnaire) using the QuestionPro program and the data analysis stage. This phase did not interfere with the submissions and payments.

# 1.4 Expected outcomes

- 1.4.1 To know data relating to problems and situtations around Sustainable Development Goals in the targeted provinces.
- 1.4.2 The findings may be used as information for planning relevant strategies and policies for resolutions.
- 1.4.3 Relevant agencies and others may us the findings to consder or create guidelines for Sustainable Development Goals.

# 1.5 Research framework

#### Literature Review

- Basic needs
- 17 Sustainable Development Goals
- Related studies



#### Research Instrument (Questionnaire)



#### Validation of Research Instrument

- 1. Qualified persons/experts validated the questionnaire.
- The research team developed and improved the research instrument as per recommendations from the qualified persons/experts.
- 2. The instrument was validated using similar samples in four provinces, at least 30 people per province.
  - Chiang Mai, Narathiwat, Udon Thani and Bangkok



#### **Data Collection**

- 1. The research team used the research instrument to survey the samples.
  - 1.1 SuDSESC used the in-person offline survey.
    - 6,000 samples (15 provinces, 400 samples/province)
  - 1.2 The UNDP and its networks served as data collectors via online questionnaire.
    - 150,000 samples (15 provinces, 10,000 samples/province)

#### 2. Survey methods

- 2.1 SuDSESC used the in-person offline survey. Respondents completed the questionnaire themselves. If they could not do so, the interviewer could complete the questionnaire for them.
- 2.2 The UNDP and its networks used the online questionnaire. SuDSESC created an online platform for them to use for data collection.



# Analysis, Conclusions and Reporting

# 1.6 Research plan

Table 1.1 Research plan (2023)

Activities	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1. Research proposal  The research team studied background and significance of problems, objectives, expected outcomes, scope of research and designed research phases.						
2. Design of research instrument (Questionnaire)  The research team studied and reviewed related literature to design the research instrument (Questionnaire).						
3. Research instrument validation (Questionnaire) The research team requestion research instrument validation (Questionnaire) from qualified persons/representatives from targeted provinces to validate the research instrument (Questionnaire).						
4. Research instrument design (Online Questionnaire) The research team designed the online questionnaire using QuestionPro for the UNDP and its networks to collect data.						
5. Trial of research instrument (Questionnaire) The research team tried the online questionnaire with similar samples from four provinces, at least 30 people per province including Bangkok, Chiang Mai, Udon Thani and Narathiwat.						
6. Data collection  The research team used the questionnaire on the samples in 15 provinces, at least 400 people per province and not less than 6,000 people in total.						

Activities	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
7. Data analysis and conclusion  The research team used findings from No. 5 to analyze as per objectives and concluded the research.						
8. Reporting  Complete the full report (Thai and English versions)						

# Chapter 2

# Literature and Related Studies

The documentary research, concepts, theories and related studies on the survey on the overview status of Thailand's Sustainable Development Goals conducted by the research team contained three stages as follows:

- 1. Concepts and theories on basic needs
- 2. Concepts on sustainable development
- 3. Related studies.

# 2.1 Concepts and Theories on Basic Needs

#### Maslow's Hierarchy of Needs

An English psychologist studied motivation and believed that humans had needs and that human behaviors were displayed to respond to those needs. His hypotheses relating to human needs are as follows (Abraham H. Maslow, 1973: 122-144):

- 1) Every human has needs and those needs are never ending.
- 2) Needs that have been met will no longer motivate behaviors.
- 3) Needs that influence behaviors are ones that have not been met.
- 4) Human needs are hierarchical in their characteristics. They range from low to high levels according to importance. When a low level need has been met, a higher level need will ensue. Maslow explains that there are five hierarchies of human needs as follows (Abraham H. Maslow, 1973, Priyaporn Wonganutrot, 2001):
- 1) Physiological Needs. These include needs for food, water appropriate temperature and so on. If humans lack all other things and these needs have been met, to pursue physiological needs, humans are subject to struggles to survive in the society.
- 2) Safety Security Needs. These include desires to be protected from bodily harm such as accidents, crimes and have security in pension.
- 3) Love or Social Needs. After having met the two hierarchies of needs above, love or social needs are a higher level. They play a role in the need to be accepted by colleagues and co-workers for being team-members. This means the needs for love, help and friendliness from other members in the organization. The social needs tend to be in a form of feeling important in that society including the need to have a higher social status, which is a psychological need.
- 4) Esteem Needs. These are self-respect. The feeling that ones succeed and are accepted from others. These include the need for status and prestige, which ia an

essential element of praise needs for competency and feeling that ones are useful and important in the society. For example, being entrusted by a boss to perform important works, having autonomy to work or praising to the public, giving advice for important matters or being promoted to an important role. Maslow states that only a group of people may have the needs at this level met.

5) Self – actualization Needs. This is the highest need level. It means ones utlize their compentencies in all aspects and can be everything they want. Each individual is different depending on their competencies and needs. Humans do not need only economic goods and physiological needs, but they also desire to reach their expectations. Maslow explains that needs provide for satisfaction. People often do what makes them satisfied. They tend to do what suits them such as a singer wanting to play music and a poet wanting to write poems. These things make them happy. That says ones should do what they are good at. The needs for all these are called success and happiness in life.

Maslow explains characteristics of people who know themselves and their desires to succeed as follows:

- 1) Those who care about the future, not the past. They try to gain as much as possible current experiences in order to reach a goal in the future. They decide to chose a risky path, but a worthy one. They know themselves, try to discover their talents, self-values and being themselves,. They also put effort in being honest with others by not being decietful but rather truthful to acquaintances. They express opinions despite disagreement from others.
- 2) Those who aim to their goals and try their best. They participate in activities that are useful and positively experienceable. They are poised to gain new experience, opportunities and accept change and disparate opinions.

Maslow classifies physiology, safety and security as lower level needs while society, love, acceptance and life success are higher level needs. The lower level needs are external satisfaction such as dressing up, eating delicious food, high wages, fully-equipped offices and so on. The higher level needs, on the other hand, are internal satisfaction such as honor, fame, gratification, being praised from the public and so on. According to these notions by Maslow, humans have sequential and systematic steps towards their needs. These are the weakness of Maslow's theory of motivation as the sequences may not be as per his suggestion. To consider it according to Maslow, if human needs in each level are met based on expected behaviors, the difficulty arises in terms of how do we know which need level of that working individual is at in a given time? This is because each type of need may have common or related characteristics that are not separable. This means a need at a higher level may occur without fully meeting the one at a lower level. Considering motives are created to influence what we need in an

appropriate time, human behaviors are under the influence of several movties at a time. These movties are sometimes conflicting and causing people to prioritize them to meet their needs accordingly.

The core of Maslow's concept, which is in line with SDGs is that human needs are similar. This means the needs that are met lead to self-satisfaction. Such needs then become a motivation to aim continually for a higher level. These needs then become a drive or motivation, which makes people behave in a way that meets their needs and it can radiate to other people around them. The sequences can be drawn from the importance of SDGs as a starting point.

# 2.2 Concepts on Sustainable Development Goals

# 2.2.1 Definitions and background of Sustainable Development Goals

Sustainable development is a new concept. It is different from economic and social development in its traditional form, which focuses on the scientific growth and progress leading to impacts and problems aplenty. The principle of sustainable development was developed to solve such problems. There have been efforts to find a solution to conflicts relating to development in the future. Factors around economic needs and limitations of resources and environmental problems are the cause.

The sustainable development concept has played a role since 1972, during the development trend of the global society. Environmental crises have also triggered awareness around the world for collaborations to combat the problems. The United Nations Conference on Human and Environment in Stockholm, Sweden in 1972 urged the global society to be aware of utilizing existing and limited resources in the most useful and effective manner. The World Commission on Environment and Development or Brundaland Commission proposed the sustainable development concept in a report to the United Nations in 1987. The report became subsequently known as "Our Common Future" (Office of International Collaboration for Natural Resources and Environment, Office of Permanent Secretary for Natural Resources and Environment, 2013, p.11)

A Non-governmental organization founded the Club of Rome, which was a group of international scholars who conferred and wrote a report on limits to growth. There were five factors that served as limitations for development of global growth at the time. These included industry exansion, rapid increase of population, consumption problems, reduction of non-renewable natural resources and environmental deterioration. They put forward a proposal to the society and business to become aware of problems that had occured and to find a solution so that the economy and ecology could continue on sustainably (Meadows, 1972).

In 1992 in Rio de Janeiro, Brazil, the United Nations Conference on Environment and Development (UNCED) or the "Earth Summit" had an important agenda on sustainable development and ratified an essential documents by member states – the Rio Declaration on Environment and Development and the Agenda 21 which were the master plan for sustainable development implementation. Environmental problems and importance of environmental conservation were also acknowledged. As a result, acitivities relating to sustainable social, economic and environmental development were set. In addition, the Commission on Sustainable Development was established with the primary duties to follow up and report on sustainable development. The Commission meets every five years for assessment.

In 2004 in New York, USA, the United Nations held its Millenum Summit and ratified the Millenium Declaration, which prescribed Millennium Development Goals (MDGs) as the global agenda. They included eight main Goals and the set the timeline for achievement to 15 years (between 2000-2015) (Millennium Declaration cited in Janunya Pathaichant, 2018).

In 2002 in Johannesburg, South Africa, the World Summit on Sustainable Development (WSSD) or Rio+10 reviewed the progress of sustainable development implementation of state members according to Agenda 21. In addition, it ratified the Johannesburg Declaration on Sustainable Development and the Johannesburn Plan of Implementation. They constituted an obligation on member states to Agenda 21 to generate more sustainable development in practice (Johannesburn Declaration on Sustainable Development cited in Janunya Pathaichant, 2018).

In 2012 before the end of the MDGs timeline, the United Nations Conference on Sustainable Development (UNCSD) or Rio+20 in Rio de Janeiro, Brazil prescribed a framework to propel global development after 2015. In September of the same year, the 70<sup>th</sup> United Nations General Assembly at its headquaters in New York, USA ratified the 2023 Agenda for Sustainable Development Goals (SDGs), which included 17 goals. Its development framework linked three dimensions including economy, society and environment. The environmental issues were the goals that had to be implemented with urgency to combat climate change (The Global Goals for Sustainable Development cited in Janunya Pathaichant, 2018).

The awareness of environmental impacts that have continuously become more serious for several decades has led to the importance of concepts on sustainable development. They have gained more attention at the international level. Sustainable development has become a principle that every section ranging from local to global levels to implement activities that promote and develop their societies sustainably. The definition of sustainable development in Toward Sustainable Development Report is

"Sustainable development is development which meets the need of current generation without compromising the ability of future generations to meet their own needs" (Office of International Collaboration for Natural Resources and Environment, Officer of Permanent Secretary for Mineral Resources, 2013). In reference to the Brundtland Report, which is the inception and definiton of sustainable tourism by the UNWTO, "Sustainable Hospitality" means implementation of resources management that focus on the capital and benfits for the economy, society and environment in order to meet the needs of the current generation while protecting and additing opportunities for future generations" (Legrand, W., Sloan, P. and Chen. J.S. 2017: 26).

Sustainable development is development that leads to balance or supportive interactions among several dimensions such as economy, society, politics, culture, spirit, natural resources and environment. These are elements that together or as a whole allow humans to live happily, both current and future generations (Banchuen Nakkanrian and Pensri Bangbon, 2016).

Sustainable development is development that meets the needs of the current generation without affecting future generations while compromising the ability to meet their own needs (Bangor, 2003).

Sustainable development is characteristically integrative, meaning it is holistic. In other words, relevant components must create a whole rendering another characteristic balance or allowing human activities to align with the law of nature (Payuto, 2003).

Sustainable development is development that aims for humans to realize limits of natural resources on earth. It provides for implementation in tandem with conservation and rehabilitation of natural resources and environment. This is development that responds to the needs of the current generation and future ones equally.

Core principles of sustainable development are:

- 1) Sustainable development dimensions, which are development of the economy so it can grow with quality and distribute income to facilitate the majority of people in the society especially those with low income.
- 2) Sustainable development dimensions, which are development of people so they are knowledgeable, competent and more productive. It promotes for a quality society for all to learn.
- 3) Sustainable development dimensions, which are utilization of natural resources in a quantity that the ecosystem can rebound to its original state, pollutants in the environment are at a level the ecosystem can absorb and eliminate, and that they can be renewed to replace what has been used up.

Sustainable development must provide for better quality of life and a society with good governance and a stable economic development system, one that does not rely on external assistance and has good environment where people use natural resources wisely, especially the natural resources that are used principally in manufacturing for economic growth (Brundtland, 1987 cited in Office of National Collaboration for Natural Resources and Environment, Office of Permanent Secretary for Natural Resources and Environment, 2013).

# 2.2.2 Sustainable Development Goals (SDGs)

Development over the past four decades have been what has led to significant impacts and damages to global natural resources. In 2000, more than 189 countries around the world including Thailand gathered at the United Nations in New York, USA in order to set development goals at the national and international levels in which every country would implement together by 2015. Those goals were called Millennium Development Goals (MDGs) including; 1) eradicate extreme poverty and hunger, 2) achieve universal primary education, 3) promote gender equality and empower women, 4) reduce child mortality, 5) improve maternal health, 6) combat HIV/AIDS, malaria and other diseases, 7) ensure environmental sustainability and 8) global partnership for development. These goals were achieved in several countries. To ensure continuous development, the United Nations has prescribed new development goals called Sustainable Development Goals (SDGs) with the framework that envisions development through linked dimensions of economy, society and environment. This means no dimension shall be developed to create a negative impact upon the others. They are referred to as the "Three Pillars of Sustainability". In Thailand, culture is an additional dimension.

Sustainable Development Goals (SDGs) were released in September 2015. They will be used as the framework to propel the world until August 2030 (15 years). SDGs have been the global development level that has been ratified by the member states of the United Nations. The document that member states have ratified is entitled Agenda 2030 or Global Goals. In the SDGs academic and official documents between 2012-2015, they may be referred to as Post-2015 Agenda. The original of SDGs dates back to 2012 when the United Nations Conference on Sustainable Development (UNCSD) in Rio de Janeiro, Brazil evaluated outcomes of Millennium Development Goals 2001-2015. It was found that several outcomes had not been achieved while new and more severe challenges emerged, especially issues and impacts caused by climate change. Growing population led to pressure upon natural resources and food, economic and social inequality, and rising political tensions at national and international levels (Centre for SDG

Research and Support, 2023). There are 169 targets covering 17 SDGs from ending poverty, achieving food security, maintaining life and well-being, accessing quality education, exploring and accessing water and energy, reducing inequality, natural environment conservation, and promoting employment and valuable work for all (United Nations, 2022). Details are as follows:

Goal 1: No Poverty. The first goal of sustainable development in the social dimension is to end poverty in all its forms everywhere by 2030. SDGs have a goal to end all forms of extreme poverty, which are measured from those with less than \$1.25 living income per day (approximately 800 million globally). This goal is related to setting up a target group that lives in a situation that risks not having access to natural resources and basic services, lacks clean water, food and adequate sanitation. The goal extends to providing assistance to communities affected by conflicts and climate related disasters.

Goal 2: Zero Hunger. With the goal to end hunger, achieve food security, improve nutrition and promote sustainable agriculture, it has been sufficiently successful. This is because the lack of food has alleviated due to economic growth and increasing agricultural production. SDGs aim to eliminate hunger and starvation in all forms by 2030 to ensure that everyone has access to sufficiently nutritious food. The hope is to end malnutrition in all forms and solve issues relating to nutrition requirements in female teenagers, pregnant women and breastfeeders, and senior citizens. There have been international collaborations to end stunting and wasting in children under 5 years of age by 2025.

Goal 3: Good Health and Well-Being. This is to ensure healthy lives and promote well-being for all at all ages. The aim is to reduce global mortality rates of mothers to be less than 70 per one hundred thousand births by 2030. Others include reducing preventable deaths in newborns and children under 5 years; untimely deaths caused by non-communicable diseases, accidents and dangerous chemicals, contaminants, and other pollutants. Further, it is hoped to end the spread of HIV, tuberculosis, malaria, issues related to drugs, reproductive health and family planning, access to public health services and so on. This goal has also sufficiently progressed. It can be seen from reduction in children mortality rates as well as combatting with HIV, malaria and other communicable diseases. SDGs aim to end the spread of HIV, malaria and other communicable diseases by 2030. Additional aims include achieving comprehensive life insurance and access to medicines as well as safe and effective vaccines for all.

**Goal 4: Quality Education.** This goal is to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all by 2030. This will allow all boys and girls to equally finish quality education at the primary and secondary levels without incurring any expenses. It will lead to effective academic outcomes whereby

everyone has access to development, care and quality educational management at the pre-school level. All of which is derived from the determination to develop SDGS. At present, more children around the world have access to education. More girls are able to go to school and receive quality education. This is because education is one effective drive of sustainable development.

Goal 5: Gender Equality. This goal is to achieve gender equality and empower all women and girls. The aim is to end discrimination, all forms of violence against women and girls, but to accept and value care and unpaid housekeeping work, access to sex and reproductive health for all. The focus is on ending all forms of discrimination. However, some regions continue to experience wage inequality and a gap between men and women in the labor market. The aim extends to ending violence against gender, sexual harassment, illegal labor and division of social classes. All of which continue to be major obstacles in this area.

Goal 6: Clean Water and Sanitation. This goal is to ensure availability and sustainable management of water and sanitation for all. The aim is for all to have access to safe and affordable drinking water. There is adequate and just access to sanitation. Excreting in open spaces shall be terminated. Water quality is upgraded by reducing pollution, eliminating littering and reducing releases of chemical substances and dangerous materials. This goal extends to water usage and sustainable water supply by 2030.

Goal 7: Affordable and Clean Energy. This is to ensure access to affordable, reliable, sustainable and modern energy for all. The aim is to increase the rate of renewable energy, integrate it with global energy and double the rate of improvement of global energy efficiency by 2030.

Goal 8: Decent Work and Economic Growth. This is to promote inclusive and sustainable economic growth, full and productive employment and decent work for all by 2030. That is to ensure per capita economic growth to be sustainable as per the context of the country. This is especially in relation to the country's gross domestic product to be achieved at a higher level of economic productivity. This is done by promoting productive activities, generating appropriate jobs, disconnecting economic growth and activities deteriorating environment and eliminating human trafficking while promoting sustainable tourism, cultures and local products.

Goal 9: Industry Innovation and Infrastructure. This is to build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation by 2030. The aim is to build quality basic infrastructures, development of comprehensive and sustainable industries, increase scientific researches, escalate technological capabilities of the the industry sector in every country, especially developing countries.

Goal 10: Reduced Inequalities. This is to reduce inequality within and among countries by 2030. The aim is to maintain the income growth within 40 percent among the poorest population group, empower and promote social, economic and political coverage for all. In addition, it aims to choose policies especially ones that focus on finance, wages and social protection in order to continuously achieve equality.

Goal 11: Sustainable Cities and Communities. This is to make cities and human settlements inclusive, safe, resilient and sustainable. The aim is to create assurances that there shall be access to accommodation and adequate basic, safe and affordable services. It is to upgrade slums and sustainable transportation. Further, it is to protect cultural and natural heritage of the world. Moreover, it is to reduce negative impacts per capita in cities upon the environment. Special attention is paid to air quality and waste management by municipality offices and others along with easy access to safe and comprehensive green spaces for all.

Goal 12: Responsible Consumption and Production. This is to ensure sustainable consumption and production patterns. The aim is to proceed with the 10-year implementation on sustainable production and consumption. This can be done by reducing half of the global waste at the retail and consumer levels in tandem with decreasing loss of food from the production process and supply chain. This includes loss after harvesting. Waste reduction is achievable through protection, processing for reusing and reusing by 2030. Additionally, there is chemical and waste elimination of all forms via an environmentally friendly method and a sustainable public procurement life cycle.

Goal 13: Climate Action. This is to take urgent action to combat climate change and its impacts. The aim is to become more resilient and increase capabilities to being adaptive for dangers and natural disasters caused by climate in every country. There is to be integration of measures for climate change at the national level, educational development, building awareness of reducing climate change problems, adaptation, impact reduction and early warning.

Goal 14: Life Below Water. This is to conserve and utilize oceans, seas and marine resources sustainably for sustainable development. It is to protect and reduce all forms of marine pollution. Additionally, it is to protect the marine ecosystem, coastal areas as well as to solve impacts from acidification in the oceans.

Goal 15: Life on Land. This is to protect, rehabilitate and promote life on land utilization sustainably. It is to sustainably manage forestation, combat desertification, stop deterioration of land so it can revive and end losses of biodiversity. Additionally, there is conservation, rehabilitation and utilization of life on land and in freshwater including ecosystem services sustainably. There is also sustainable forest management of all kinds. Deforestation is halted while deteriorating land and surfaces are being

rehabilitated. Reforestation and forest rehabilitation occur around the world. There is protection from desertification, rehabilitation of deteriorating land and surfaces. Further, there is conservation of the mountain ecology and biodiversity of the ecology system.

Goal 16: Peace, Justice and Strong Institutions. This is to promote peaceful and inclusive societies for sustainable development. It aims for everyone to have access to justice and create effective institutions that are responsible and inclusive at all levels. They reduce all forms of violence and mortality rates in all relevant areas. They put an end to oppression, inappropriate serving of own's interests, human trafficking, all forms of violence and torment in children as well as reducing trafficking of ammunitions, money and all forms of corruption.

Gaol 17: Partnerships for the Goals. This is to strengthen the mechanism for implementation and reviving partnerships at the global level for sustainability. It is to strengthen resources mobilization in Thailand including support from the international level to reach out to developing countries.

The United Nations has grouped the 17 goals according to relevance. There are five groups or 5Ps including; People, Prosperity, Planet, Peace and Partnership as follows (Centre for SDG Research and Support, 2022).

Table 2.1 Grouping of development dimensions of the Sustainable Development Goals (17 goals)

Development dimensions	Development Goals	
People	Goal 1:	No poverty
	Goal 2:	Zero hunger
	Goal 3:	Good health and well-being
	Goal 4:	Quality education
	Goal 5:	Gender equality
Prosperity	Goal 6:	Clean water and sanitation
	Goal 7:	Affordable and clean energy
	Goal 8:	Decent work and economic growth
	Goal 9:	Industry and innovation infrastructure
	Goal 10:	Reduced inequalities
	Goal 11:	Sustainable cities and communities
Planet	Goal 12:	Responsible consumption and production
	Goal 13:	Climate action
	Goal 14:	Life below water
	Goal 15:	Life on land
Peace	Goal 16:	Peace, justice and strong institutions
Partnership	Goal 17:	Partnerships for the goals

Source: Modified by the research team

# 2.2.3 Concept of Sustainable Development Goals in Thailand 2.2.3.1 Thailand's SDGs situation

Thailand has given importance to driving the Sustainable Development Goals (SDGs) by integrating and working together. For example, driven by the government with action plans related to sustainable development goals at the national level which is linked to the 20-year national strategic plan (2018-2037), National Economic and Social Development Plan No. 12 (2017-2021), and the National Economic and Social Development Plan No. 13 (2023-2027) to integrate with operations. In addition, civil society and the private sector are increasingly paying more attention to this. As a result, Thailand's SDG Index ranking is at the top when compared to countries in East Asia, South Asia, and the ASEAN region, etc.



Illustration 2.1 Global and ASEAN SDG Index rankings for 2022 Source: Jeffrey Sachs et al., (2022)

According to the Sustainable Development Report (SDR) which is a study and assessment of progress in driving the Sustainable Development Goals (SDGs) of each country, including the annual SDG Index ranking, It is found that in 2021, Thailand ranked 43rd on the SDG Index (165 countries), and 2022 ranked 44th (163 countries). The score decreased by 0.1 points. And when comparing the SDG Index rankings at the regional level, it is found that Thailand was ranked number 1 in the ASEAN region and ranked 3rd in Asia, followed by Japan (ranked 19th) and South Korea (ranked 27th).

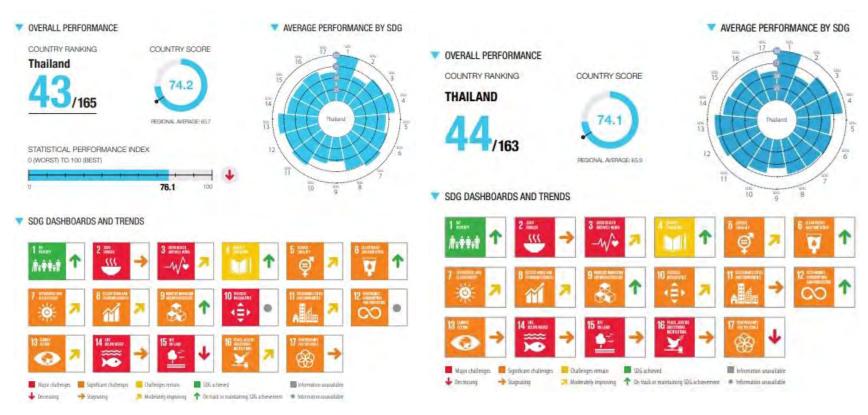


Illustration 2.2 Thailand's SDG Index rankings for 2021 and 2022 Source: Jeffrey Sachs et al., (2021); Jeffrey Sachs et al., (2022)

When considering the Sustainable Development Goals (SDGs) level of Thailand, it is found that there is a total of 1 Sustainable Development Goal (SDGs) that is in the status of being achieved (green) since the 2019 report, which is SDG1 (No Poverty). The main indicators of the global assessment of this goal in calculating the 2022 SDG Index score are as follows: The poverty line is set at US\$1.90 per day (65 baht) and US\$3.20 per day (110 baht). It is found that no Thai population falls below the poverty line. For the use of poverty line criteria in Thailand, year 2020 set at 2,762 baht per person per month. The Office of the National Economic and Social Development Council (NESDB) has made a report on the situation of poverty and inequality in the year 2020. It is found that 68.4% of the population is considered poor, representing a total of 4.8 million poor people nationwide, which is likely to increase from last year.

As for the Sustainable Development Goals (SDGs), which are in a very challenging state, the number of 5 goals is the same as last year. But there has been a change in goals. That is, from the 2021 reporting data, the SDG2, SDG3, SDG10, SDG14 and SDG15 targets are highly challenging targets. In 2022, the performance of SDG10 targets has improved, resulting in the status being upgraded to a challenging target and SDG16 is a highly challenging goal instead. For Thailand's challenging goals and indicators from the 2022 SDG Index rankings are: SDG2 Zero Hunger – There are many challenges in the Sustainable Nitrogen management index indicators and the export of pesticides that are dangerous because they are related to the agricultural sector. SDG3 Good Health and Well-being – There are many challenges in measuring tuberculosis incidence and road traffic fatality rates. SDG14 Life Below Water – There are many challenges in determining which marine areas are important for protected biodiversity and the Ocean Health Index in seawater cleanliness scores. SDG15 Life on Land – There are many challenges in indicators of protected freshwater areas important for biodiversity and Red list index of species survival. SDG16 Peace, Justice and Strong Institutions – There are many challenges to the murder rate indicator\* and Corruption perception index, etc.

According to the Sustainable Development Report (SDR), it is found that the rating "Government commitment and efforts to drive the SDGs", a survey by the United Nations Sustainable Development Solutions Network (SDSN) to track the extent to which governments in each country have integrated the SDGs into their work based on indicators as follows: There have been high-level official statements on the SDGs, The SDGs are integrated into national strategies and operational plans, the SDGs are integrated into national budgets, there is monitoring and evaluation of the SDGs at the national level, host agencies are designated to implement the SDGs, the SDGs have been integrated into national COVID-19 recovery plans, and the results of the voluntary national review of the implementation of the 2030 Agenda for Sustainable Development are reported (Voluntary

National Review: VNR). SDSN has compiled survey results from more than 60 countries, assessed and rated commitment on a scale consisting of scores from 0-40 points, equal to a very low level, Scores between 40-50 points equal a low level, Scores between 50-65 points equal a moderate level, Scores between 65-80 points equal a high level, and a score between 80-100 points equals a very high level. The evaluation found that no country received a very high score. However, there are still 15 countries with high scores, including: Argentina, Austria, Benin, Colombia, Denmark, Finland, Germany, Japan, Mexico, Netherlands, Nigeria, Slovenia, Spain, Sweden, and Switzerland. Meanwhile, Thailand scored equal to the average level for the government's commitment and effort in driving the Sustainable Development Goals (SDGs), which is the range of scores that most countries received (23 countries). However, this rating of the government's commitment and efforts is still a pilot version This is because currently available policy information is subject to a number of considerations and limitations.

# 2.2.3.2 Compatability of National Strategies and SDGs Targets

The 17 Sustainable Development Goals that cover the demensions of people, economy, environment, peace and justice, and development partnerships are compatible with the the national development guidelines under the twenty-year National Strategies. This is a national development goal that is in accordance with good governance. It is a framework for national development planning to be in line and intergrated in order to develop the country to be stable, prosperous and sustainable without leaving anyone behind.

The Committee of Sustainable Development Goal (SDC), approved the principle of Thailand's SDG Roadmap, which includes implementation in six dimensions inclusive of linking the sustainable development goals with three national plans. The Office of the National Economic and Social Development Council analyzed and compared the linkage between the 169 targets of SDGs with 37 goals at the issue level. This covered 23 master plans under the national strategies (Level 2 plan) and 140 goals at the sub-issue level of the master plans (Y1). The aim was to codify the compatibility and setting directions of development at the national and international level. It was also to increase the effectiveness of follow-ups, examinations, and assessments by government agencies. It was found that 17 SDGs and 169 targets were compatible with the six dimensions of the national strategies. They were in line with the goals at the sub-plan level of the master plans under the national strategies in all of the 23 Issues. Government agencies were able to use this data along with creating projects and level 3 plans, which were achievable for being Sustainable Development Goals, National Strategies Goals and Master Plans at the same time (Office of the National Economic and Social Development Council, 2023) as in the illustration below.



Illustration 2.3 Linkage between SDGs Targets and Sub-Master Plans Targets of National Strategy's Master Plans

Source: Office of the National Economic and Social Development Council, B.E. 2566

**Note:** This is an analysis of linkage betwen SDG targets and sub-master plans targets under the national strategy's master plans.

The implementation to achieve goals under the master plans is alined with the sub-master plans under national strategy's goals as well as SDGs.

# 2.2.3.2 Role as a propeller of Thailand's SDGs

Thailand has designated various organizations to be involved in the implementation, propulsion, development of the 17 Sustainable Development Goals. They include:

#### 1) Public sector

Thailand is one of the Member States that has ratified the 2030 Agenda. Prime Minister General Prayut Chan-o-cha went to sign the ratification himself. Upon return, the Prime Minister established a new Sustainable Development Committee (SDC) to replace the old one, which was established in the Yingluck Shinawatra's government (2013). It was effected by the Prime Minister's Regulation issued on 11 April 2016.

The new Committee comprises representatives from the public, the private and the academic sectors. The public sector is represented by the Deputy Prime Minister, Minister for the Prime Minister's Office, Permanet Secretaries from different Ministries, the General-Secretary of the Office of the Council of State, the Director of the Budget Bureau and the Attorney General. The academic sector is represented by Thailand Institute of Justice, Thailand Environment Institute, Good Goverance for Social Development and Environment Institute, Chulabhorn Research Institute and Thailand Development Research Institute. The private sector is represented by The Thai Chamber of Commerce, The Federation of Thai Industries and not more than four qualified persons. The Secretary General of the Office of the National Economic and Social Development Council as chair and secretary, the Secretary General of the Office of the Office of Natural Resources and Environmental Policy and Planning and an assigned Deputy Secretary General of the NESDC as members and secretary assistants.

	Under the SD	C, there are four sub-committees:			
		Sub-committee for Propulsion of Sustainable			
Development Goals;					
		Sub-committee for promotion of understanding and			
assessment of sustair	nable developr	ment based on the Sufficiency Economy Philosophy;			
		Sub-committee on information systems to support			
for sustainable development;					
		(To be established early 2018) Sub-committee for			
Strategic Environmen	tal Assessment	: (SEA).			
	Each sub-con	nmittee has NDSEC and the National Statistics Office			
(NSO) as secretaries.					
	In addition, S	SDC has assigned that each primary and secondary			

organization has a goal to manage and create a roadmap in order to achieve sustainable

development goals. NDSEC has collaborated with SDG Move under Thailand Research Fund to organize a workshop to prioritize Sustainable Development Goals.

Direct propelling of SDGs by the public sector is still limited. This is in terms of approaches and operational terms that lack integration. Most devleopment policies of the government such as Thailand 4.0, Sustainable Thai Popularity, 20 Year National Strategy, National Economic and Social Development Plan No. 12 and so on lack concrete propelling of SDGs. However, these development policies have some relevance to SDGs. Despite having no clear propulsion, development in some SDGS areas may be possible.

In terms of the overall practical propulsion by the public sector, there are at least three important organizations including; 1) the Office of the National Economic and Social Development Council (NESDC), 2) the National Statistics Office (NSO) and 3) the Ministry of Foreign Affairs with the Department of International Organization as the key player.

The Office of the National Economic and Social Development Council (NESDC) serves as the secretary of SDC and all other sub-committees. It is responsible for propelling, coordinating and following up the works of all releant public sector organizations. Additionally, it plays a role in propelling SDGs to use in a field site. Currently, it is creating a database at the sub-district level. This is in collaboration with the Geo-Informatics and Space Technology Development Agency (GISTDA).

The National Statistics Office has an important role to liaise and build on indicator data in Thailand. This involves collaborations with organizations in Thailand and overseas allowing collection of DSGs indicator data to be complete, precise and timely. For example, a collaboration with UN Habitat to deal with indicator data relating to SDG 11 and New Urban Agenda, and with the National Metal and Materials Technology Center (MTEC) to calculate indicator data relating to the material footprint.

The Department of International Organization, Ministry of Foreign Affairs is the key play to liaise and prepare the Voluntary National Review (VNR). It is responsible for works related to development partnerships in Thailand and overseas. In the international arena, the Ministry has established the South-South Cooperation project among developing countries. Thailand has shared the new agricultural theory practices under the Sufficiency Economy Pholosophy (SEP) developed by King Rama 9 to other developing countries under the concept of SEP for SDGs. Moreover, the Department has connected with other organizations under the UN such as the UNDP to push the Innovation Hub. Domestically, the Department of International Organization has initiated the Open-ended Working Group (OEWG) as a platform for conferring among the public, the private sectors and civil society. It serves as a supporter and middleperson to liaise

collaborations among relevant sectors to work together for SDGs. There have been continuous activities that encourage participation from youths.

#### 2. Prirvate sector

The private sector in Thailand has become increasingly awakened. The key player in the private sector that plays a role in propelling SDGs is the UN Global Compact Network Thailand (GCNT). It is the network of private companies that are development partners with the United Nations in Thailand. Currently, there are 41 global companies in which most of them are members of GCNT. GCNT has given importance to the issue related to businesses and human rights. It is related to SDGs intimately.

At the company level, the ones that have demonstrated the determination to propel SDGs are plentiful. They include CP, which tries to adjust the supply chain of food production to be more sustainable. It has also conducted a number of social activities in various aspects. Resources companies such as PTT and Bangchak Corporation have also seen the importance of SDGs. They have focused on activities for public interests in the areas of society, environment and product development, which is under the care of their companies. This is so that they correspond better to sustainable development. (i.e. innovations related to plastic from PTT Global Chemicals and so on). Retail companies such as Tesco stand out in terms of their solutions to waste and food waste. They are also an important leader in collecting food waste data. Whereas SCG has proposed manufacturing processes and products that are based on the Circular Economy concept. These companies also have a joint project under the theme Team D. It is another essential collaboration to propel SDGs at the regional level. Team D was initiated by Assoc. Prof. Chirayu Isarangkun Na Ayuthaya, Chair of the Thailand Sustainable Development Foundation in collaboration with other 13 companies such as Charoen Pokphand Group, Tesco, SCG, PTT, Pracharath Rak Sammakkee Co. and so on.

In addition, there are a number of other organizations in Thailand that work with the private sector to propel sustainable development. For instance, the Stock Exchange of Thailand, Thailand Sustainable Development Foundation, Thaipat Institute, Thailand Management Association and Thai Publica. These organizations have often played a role in creating a conversation platform to provide knowledge and create capabilities to the private sector. They also serve as a central media platform to present works related to sustainability from the private sector to the public sphere.

# 3. Civil society

The civil society in Thailand has equally been excited. It has benefited from SDGs for using them as the action framework and tool to follow up operations of the public and private sectors. They have also been used to negotiate policies. Further, the civil society network still has an important role to reflect upon

problems and challenges of Thailand in several conferences in addition to reports from the public sector.

There are a number of organizations of the civil society related to SDGs. However, these organizations are connected as a network. Should this network be divided according to a core organization, there shall be three networks. The first is the civil society network and the community network that are linked by the Community Organizations Development Institute. The second is the NGO Coordinating Committee on Development (NGO COD). The third is the NGO Protecting Environment and Conserving Natural Resources network. The fourth is the network with the Thai Health Promotion Foundation.

At the topic level, strong networks that play a role in following up and propelling SDGs in their own areas are diverse. For example, women's networks, organizations' networks related to climate change, organizations' networks related to natural resources and environmental quality, networks relating to alternative energy and volunteer networks.

#### 4. Academic sector

In the academic sector, there are many institutes and research centers that have roles or carry out activities that are partially consistent with the Sustainable Development Goals or SDGs. However, the institutes and research centers that work closely with the policy processes driving the SDGs in Thailand are as follows:

- Thailand Sustainable Development Foundation (TSDF) plays an important role in promoting and disseminating the Sufficiency Economy Philosophy (SEP) and connecting Sustainable Development Goals. TSDF also produces publications to serve as fundamental academic data relating to the Sufficiency Economy Philosophy and sustainable development. They are available in Thai and English. Additionally, TSDF, in collaboration with Thai Publica, organized Thailand SDG Forum to be an important platform for exchaning SDGs knowledge.
- SDG Move under Thailand Research Fund (TRF) operates to promote an essential body of knowledge to propel SDGs and set directions for strategic research funds in order to propel SDGs.
- Thaipat Institute, A Public-Interest Organization which is operating under the Rural Restoration Foundation of Thailand under Royal Patronage, it has expertise in the Sufficiency Economy Philosophy and it promotes Corporate Social Responsibility (CSR) in private companies. Further, it closely follows up on the development of tools that are useful for applying SDGs in the private sector.
- The Social Research Institute and the Rotary Peace Center at Chulalongkorn University play an important role in organizing a specific platform among

the civil society, academic and public sectors. It regularly invites international SDGs scholars to exchange knowledge with Thai scholars and the Thai civil society.

- Knowledge Network Institute of Thailand works closely with tertiary institutions to propel SDGs by playing a middleperson role and organizing a platform to exchange knowledge domestically and internationally.

#### 2.3 Related studies

As for related studies, to correspond to this study, the research team reviewed those that are related to Thailand especially the ones that focused on the current status of sustainable development goals in the Thai context across different SDGs during 2017-2019. Details are as follows:

Somporn Gomaratut et al. (2017) conducted a survey on the status of sustainable development goals in the Thai context and alternative economic, social and legal measures for Goal 1: No poverty. The objectives were to; 1) study the current situation in Thailand related to the no poverty goal (Goal 1) including analyses according to targets, adjustment and setting up of new targets to be in line with the Thai context, 2) prioritze targets under sustainable development goals by considering the importance and readiness of Thailand to achieve the goal of no poverty, 3) assess measures that the public sector and other sectors currently operate and investigate suggestions from research findings in Thailand regarding economic, social and legal measures as well as international experiences that could be used as an alternative measure in order to achieve the no poverty goal in Thailand. The findings indicated that; 1) the current situation in Thailand relating to the no poverty goal as judged by the extreme poverty level was at 1.25 USD per day, which was below the international poverty line. As for the criteria for the international poverty line at 1.90 USD per day, there was no clear data with regard to the ratio of poor people. Basic social protection, resources management and policy frameworks to eleminate poverty were in line with the no poverty goal of the United Nations, 2) the important target requiring implementation first for Thailand to acheive sustainable development gaols was Target 1.3 in which Thailand was reqdy to achieve Goal 1 in all targets due to the body of knowledge and other measures relating to the targets and indicators of Goal 1, 3) the government had economic, social and legal policies to tackle poverty and had undertaken them continuously since the National Economic and Social Development Plan No. 5 (1982-1986) up until the National Economic and Social Development Plan No. 12 (2016-2021) and the twenty-year National Strategy (2017-2036) in which a level of achievement had been reached.

Satian Chunta et al. (2019) conducted a survey of the status of sustainable development goals in the Thai context and alternative economic, social and legal

measures for Goal 2. The objectives were to 1) survey the current status of sustainable development in food security and ending hunger in Thailand; 2) assess the economic, social and legal measures that the private sector and the relevant organizations had implemented in relation to sustainable development in food security and ending hunger in Thailand; and 3) use the survey results of the sustainable development status in food security and ending hunger in Thailand to analyze and synthesize for priority and proposing appropriate goals and indicators so that Thailand could achieve goals. The findings indicated that: 1) the defining of targets and indicators relating to hunger, food security, upgrade of nutritional status and promotion of sustainable agriculture showed that Thailand did not have a clear definition for each target and one that was suitable for its context. Having reviewed definitions of each target as per those defined by relevant domestic and international organizations, it was necessary to build an understanding in defined terms that were mutually understood among relevant organizations and sectors. This would build a mutual understanding and effectively propel implementation toward the set goals. 2) The survey of sustainable development situations relating food security and hunger in Thailand found that Thailand's situations were positive toward achievable goals. This was due to implementation in the country by relevant organizations. They operated according to the strategy to solve hunger issues. They created food security, upgraded nutritional status and promoted sustainable agriculture. However, there were some targets and indicators that needed to be adjusted to suit the Thai context. 3) The assess the status of economic, social and legal measures related to sustainable development food security in Thailand whereby the public sector and relevant organizations implemented found that Thailand had implemented economic and social measures that had been embedded in its National Strategy and several development plans such as the twenty-year National Strategy (2017-2036), Social and Economic Development Plan No. 12 (2017-2021) and other strategy plans of various ministries that had applied the framework of the twenty-year National Strategy and Social and Economic Development Plan No. 12. As for the legal measures, there were several legal instruments related to the implementation measures regarding hunger elimination, food security, upgrade of nutritional status and promotion of sustainable agriculture. However, they were scattered around and lacking effective enforcement. This would not lead to support and promotion of sustainable development. Sometimes, the law was itself an obstacle. For example, rights and access to production resources by farmers and poor people. 4) Prioritizing to propose new suitable goals and indicators for Thailand to achieve according to SDGs, the targets and indicators for each topic had important and related. The author was of the view that prioritizing the set goals and indicators were suitable in accordance with "urgency" and "impact" of the objectives in their sequence.

Nittaya Promkanta et al. (2019) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternatives in economic, social and legal measures for Goal 3: Good Health and Well-being for all ages. The objectives were to survey the current status, prioritize, survey and assess economic, social and legal measures; and offer implementation alternatives to achieve SDG 3: Good Health and Well-being for all ages in Thailand. The study was qualitative in nature comprising a review of a body of knowledge and survey and in-depth interviews. It was found that Thailand current had a body of knowledge pertinent to definitions of all targets and indicators in accordance with the Metadata UN SDGs. It had readiness implementation measures capable of achieving targets due to basic element factors. They included responsible organizations and relevant laws as well as being ready to link goals with other goals especially in health and well-being related to dangerous chemicals and toxins. The study recommended that relevant organizations integrate collaborations in terms of linking basic data with implementation goals to correspond to Sustainable Development Goals.

Charnsak Srisawatsakul and Waransanang Boontarig (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures. Its primary objective was to survey the current status of Goal 4 in Thailand. Secondary data was collected comprising discovery of published data from credible Thai government or international media outlets, participating in workshops organized by the Propulsion and Facilitation Committee for Sustainable Development Plans of Education and so on. The findings recommended the suitable translation and definitions of targets for the indicators for Thailand. The examination of the status of different targets indicated that there were five targets that generated data to respond to every indicator. There were four targets that revealed no data whilst the other two targets had only some data. The findings of this indicator status indicated weaknesses and problems of the targets that affected other targets. Most affected were Targets 4.1 and 4.2. The study also proposed several alternative measures to develop the Thai education system to be more effective in order to take Thailand closer to sustainable development of education.

Korakit Choomgrant et al. (2017) conducted a survey on the status of Sustainable Development Goals in the context of Thailand and alternative economic, social and leave measures for Goal 5: Gender Equality. It was a survey research, which studied relevant documents, statistics and literature pertinent to gender equality. The aim was to ascertain a true understanding about the goal status in the context of Thailand, its readiness and priority of targets. The findings demonstrated that almost all of Thailand target status was at the medium level. This was a gap in what the United Nations prescribed when compared with the statistics in Thailand. In its readiness to achieve goals, Thailand had surveyed

undertakings of the public sector and relevant organizations. It was found that the country was ready in its laws, national practices and policies. However, it lacked a mechanism to monitor their effectiveness. If Thailand could develop an effective monitoring mechanism, the research team believed that the country would be able to achieve Goal 5 within the prescribed timeframe. With regard to prioritizing Target 5.5, which is to eradicate all forms of violence against women and girls in public and private places including human trafficking, sexual harassment and exploitation in other forms, these should become an urgent target requiring resolutions. They impact upon the social system, economy and image of the country in eyes of the international community. Target 5.1, which is to end all forms of discrimination against women and girls should be prioritized as this is most affected. If this target was achieved, it would allow an understanding of basic human rights in relation to gender equality and lead to positive effects on other targets.

Satian Chunta at al. (2019) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for Goal 6: Clean Water and Sanitation. The objectives were to 1) survey the sustainable development situations relating to ensuring clean water and sanitation for all and sustainable management in Thailand; 2) assess the status of economic, social and legal measures that the public sector and other relevant organizations had implemented on sustainable development relating to ensuring clean water and sanitation for all and sustainable management in Thailand; 3) analyze and synthesize the survey results of sustainable development situations for ensuring clean water and sanitation for all and sustainable management in Thailand to prioritize and propose suitable goals and targets for Thailand to achieve SDGs. It was found that the sustainable development situations in the context of Thailand and alternative economic, social and legal measures according to Goal 6: Clean Water and Sanitation, Thailand had positive situations and target status relating to the management of water and sanitation. Each target and indicator was preliminarily assessed and it was found that:

Target 6.1. to achieve the goal that everyone shall have access to clean and affordable water by 2030. This was the target that Thailand could achieve as per the Sustainable Development Goal indicator. It was because there had been implementation by relevant organizations and collection of data and reporting of the implementation every year. However, the important issue was that despite the percentage of people who used drinking water services being managed safely and adequately according to the criteria, the water quality was still problematic in terms of its safety, which did not meet the standard criteria as set by the Ministry of Public Health and the World Health Organization.

Target 6.2. following review, it was found that Thailand had a good implementation status. There had been reports on systematic implementation by relevant

organizations. The Ministry of Public Health prepared a report every year to use as data to report in accordance with the sustainable development indicator, Target 6.2. Additionally, the Ministry of Public Health had conducted implementation on Thai public toilets up to phase 4 in accordance with the HAS standard. This increased the rate of public toilet use accordingly. However, an area subject to implementation problems was facilitation of hand washing with soap and water in which the data had not been collected systematically. However, the report after the 3<sup>rd</sup> performance report on National Indicators (Office of National Statistics, 2019) proposed the former criteria of SDGs at the global indicator.

Target 6.3. Thailand had seen implementation of relevant organizations across several sectors. As for the topic around the upgrade of water quality by reducing population, reducing water waste ratios that had not been processed by half, and increasing water recycling, as well as prescribing indicators by using the percentage of population who used toilets hygienically, the 3<sup>rd</sup> Performance Report on National Indicators (Office of National Statistics, 2019) proposed that indicator criteria be adjusted to suit the context of Thailand and the additional indicator for the percentage of waste water that had been processed be increased.

Target 6.4, Indicator 6.4.1. Thailand had seen implementation by relevant organizations, developed a data system and reported on the positive implementation that was responsive to the indicator capable of being international criteria. The 3<sup>rd</sup> Performance Report on National Indicators proposed that the global indicator be adhered to. As for the 6.4.2 Indicator, Thailand had seen implementation by relevant organizations, collected data and prepared annual reports that was responsive to the indicator. The 3<sup>rd</sup> Performance Report on National Indicators proposed that the global indicator be adhered to and the 6.4.2 Indicator for water tension level: water use ratio per total water be added.

Target 6.5. there shall be holistic water management at all levels including through appropriate border collaborations by 2030. Indicator 6.5.1. There was implementation in Thailand at the operation level via the integrated water resources management (IWRM) (0-100). It was used to manage water resources in which the 3<sup>rd</sup> Performance Report on National Indicators (Office of National Statistics, 2019) recommended that the former global indicator be used. Indicator 6.5.2. Portions of river basin areas that cross borders were managed to bring about water management collaborations. The implementation in Thailand according to Indicator 6.5.2 involved relevant organizations such as the Office of Mekhong Basin Management. The 3<sup>rd</sup> Performance Report on National Indicators (Office of National Statistics, 2019) recommended using the global indicators criteria. However, the data lacked completeness and management in accordance Indicator 6.5.2 in Thailand.

Target 6.6. protection and relevant rehabilitation for river basins including mountains, forests, wetlands, rivers, perch aquifers and lakes by 2020. There were several relevant organizations that implemented this and their situations were positive. The 3<sup>rd</sup> Performance Report on National Indicators (Office of National Statistics, 2019) recommended that the global indicators criteria be used and the additional indicators be added for Thailand. These included 1) the portions of wetlands and water resources subject to rehabilitation; 2) the portions of river basins subject to rehabilitation; and 3) the portions of canal areas subject to rehabilitation.

Aumnad Phdungsilp et al. (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for Goal 7: Affordable and Clean Energy. The findings demonstrated the discovery and in-depth data derived from literature review specially for Goal 7 in the context of Thailand. Relevant literature was first reviewed to examine the current status of Goal 7 and relevant indicators. Then the analytic hierarchy process (AHP) was applied to assess and prioritize the indicators. It was found that Thailand's implementation was at the level better than the global average under 3 targets. In terms of its readiness, it was found that Indicator 7.1.1 was most ready followed by Indicators 7.1.2, 7.3.1, 7.2.1, 7.a.1, and 7.b.1 consecutively. As for the priority of indicators, it was found that Indicator 7.3.1 was most important followed by 7.2.1, 7.1.2, 7.1.1, 7.b.1, and 7.a.1 consecutively. Further, the study assessed the indicators by an existing energy model to learn how to achieve Goal 7 by 2030. This research also in-depth interviewed experts in energy to find suitable recommendations for policies and research questions relating to Goal 7.

Pairach Piboonrungroj et al. (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for Goal 8. The scope of this study were to 1) define meanings and definitions for targets and indicators; 2) to study the compatibility between the targets and indicators in the context of Thailand; 3) to survey the current status of the targets as well as the current status of the indicators; 4) to study plans, projects subject to implementation in Thailand; 5) to assess the readiness to achieve sustainable development goals; 6) prioritize the targets; and 7) to survey the alternative economic, social and legal measures (or institutional) both domestically and internationally. This was done through the review of relevant documents including focus group with experts and stakeholders of the targets. The findings indicated a gap of development in various areas. For instance, Target 8.2, GDP per person employed, was subject to volatile growth while Target 8.3 took into account the portion of those employed informally in the agriculture sector. However, in the Thai context, it was found that the Thai labor force in the informal system, most of them could not be identified whether they were employed within or

outside the agriculture sector. Thus, the use of such indicators may not be popular in the Thai context. Target 8.10 dealt with building capabilities of domestic financial institutions. It was found that although the indicators of access to finance and banking increased continuously, the indicators were not comprehensive. This was due to the lack of taking into account other financial services. Additionally, the priority of problems based on the study considering targets and indicators in two dimensions including urgency and impact, it was found that Targets 8.1 and 8.4 continued to be those that ought to be prioritized. This was due to them being the ones that fell in the high urgency level. If they were delayed to be implemented, serious impact may ensue. The high impact level was the targets and indicators that led to other targets and Sustainable Development Goals.

Duangchan Worakamin et al. (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for <u>Goal 9</u>. The objectives were to study the current status of environmentally friendly industries in Thailand, and analyze the gap to achieve SDG 9. The findings indicated that industrial development in Thailand had much success in the last decade. However, since the inception of the sustainable development concept, Thailand had been ready to achieve its standards. The areas requiring priority in the future included long-term planning for innovation, basic infrastructure to support economic growth, economic stability and investor's confidence.

Wijitbutsaba Marome (2018) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for Goal 11: Sustainable Cities and Communities. The objectives were to study the status and readiness of Thailand to achieve Goal 11. Under Sustainable Development Goals, this was to make cities and human settlements inclusive, safe and adaptable to changes and sustainability by 2030. This study surveyed data from academic documents and policies. It also conferred with relevant organizations in the public sector, private sector, civil society and academia as they were able to give their opinions relating to the meanings and definitions of existing targets and indicators. Additionally, the research examined the implementation status, performance, current readiness on the part of organizations and different sectors in order to recommend measures and national indicators. The aim was to assist all sectors to work in an integrative manner leading to achieving Gaol 11 in the context of Thailand.

Supot Chunhachoti-anan and Thita Orn-in (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for <u>Goal 12</u>. The objectives were to study the definitions of targets and indicators; situations of problems; relevant implementation in Thailand in 2017 including the economic, social and legal measures; and readiness assessment and priority

of each target in Goal 12. The research methodology was primarily documentary research. It collected and synthesized existing data in academia. It surveyed data via interviews with relevant organizations in the public and private sectors as well as civil society in relation to the propelling of these areas. Based on the survey and readiness assessment of different the 11 targets under Goal 12, the research team was of the view that Thailand was ready in terms of its sufficient data. This had largely been collected by the data collection system to report findings according to Goal 12; however, with some improvement required. Minor improvement was required for the data collection system. With regard to the readiness of the current implementation plans against the problems, it fell at the ready level as well. Most targets had clear corresponding plans. Nevertheless, the true assessment was subject to the effective implementation as per the plans. In relation to the gap, most of it was derived from behavioral propulsion and basic infrastructure planning. However, propulsion support required time, budget and collaboration with the private sector, which presented an obstacle for the public sector. Further, there had been detailed information regarding the current situations, implementation, alternative measures including the readiness for each target as well as priority for the 11 targets under SDG 12: Responsible Consumption and Production. Due to the survey under this project being conducted in 2017, problems, measures and United Nations requirements may pivot quickly. It was necessary to follow up on the changing situations as they arose.

Kannika Thampanichvong et al. (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for Goal 13. The objectives were to study the current status of Thailand relating to SDG 13; analyze Thailand's readiness to achieve SDG 13; assess the measures implemented by the public sector and organizations in other sectors; and recommend measures to propel SDG 13 and its five targets. However, only three targets were applicable to the Thai context. They included (Target 13.1) promoting resilience and performance to adapt to dangers and natural disasters caused by climate in all countries; (Target 13.2) integration relating to climate change in the strategy polices and planning at the national level; and (Target 13.3) educational development, building awareness and performances of humans and institutions relating to relief from climate change, adaptations, reduction of impacts and early warnings. Under Target 13.1, it was found that Thailand's implementation on the promotion of resilience and performance to combat and mitigate risks from disasters had seen much progress. Currently, Thailand had the Disaster Prevention and Mitigation Plan 2015 in place. It was a primary strategy plan of the country in relation to mitigating risks from disasters at the national and regional levels. Further, the Department of Disaster Prevention and Mitigation and relevant organizations had efficiently and systematically collected data relating to losses and impacts from disasters. An

important gap was the lack of follow-up plans for implementation. Additionally, there should be concrete goals set to alleviate impacts from disasters. As for Target 13.2, Thailand had integrated the implementation according to policies/strategies/plans relating to climate change such as the twenty-year National Strategy Framework Plan (2017-2023), National Economic and Social Plan No. 12 and Climate Change Preparation Action Plan 2015-2050 and so on. However, it lacked a follow-up on compliance. With regard to Target 13.3, the focus was on promoting awareness and performance to adaptation and reduction of impacts from disasters and climate change. Although the Ministry of Education was in the process of improving its central program for basic education, relevant organizations had already commenced teaching about climate change. Nonetheless, Thailand was currently devoid of data management relating to activities or performance development projects on greenhouse effect reduction, adaptation, impact reduction and early warnings including data on systematic climate change studies.

Ampai Harakunarak and Kanjana Yasen (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for <u>Goal 14</u>: (Life below Water). Important issues based on the survey status research in Thailand according to Goal 14 and readiness of Thailand to achieve Goal 14 of sustainable development could be summarized as follows: 1) Thailand had the total coastal area of 323,488 square kilometers comprising territorial waters, contiguous zones, special economic zones and continental shelves; 2) targets and indicators under the Sustainable Development Framework of Goal 14 was important for Thailand's policies, strategies, plans and projects on sustainable development. This demonstrated opportunities and potentials of Thailand to achieve most goals by 2030; 3) the outcome from prioritizing the targets under SDG 14, which Thailand ought to expedite its implementation on fishery included Target 14.4 (sustainable fishery) and Target 14.6 (cancellation of facilitated fishery by preventing collection of aquatic animals beyond capacity while managing problems of illegal fishery and cancelling facilitated fishery that affected natural resources and the ecosystem); 4) As for other issues under Goal 14 that the government should give importance for propelling their sustainable development included setting up frameworks and implementation guidelines in order to achieve — Target 14.1 by preventing and reducing all form of marine pollution especially coastal pollution including waste and water pollution caused by nutrients; Target 14.3 by reducing and solving impacts from saltwater acidification; Target 14.7 by sustainably managing fishery resources; and Target 14.6 by focusing on small local fishers, and 5) the results of this research recommended that there be two important measures including a development and follow-up measure to assess the indicators and economic, social and legal measures for implementation and sustainable development goals.

Nathsuda Pumjumnong and Uthai Charoenwong (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for to Goal 15. Its objectives were to 1) study the current status of Thailand relating to Sustainable Development Goals and the analysis on its compatibility with the set targets in order to adjust and set new targets to suit the Thai context by focusing on Target 15.2; 2) prioritize the targets under Sustainable Development Goals by considering the importance and readiness of Thailand to achieve such targets. This research focused on Target 15; and 3) assess the measures that the public sector and organizations in other sectors were currently implementing by surveying recommendations conducted in Thai studies relating to economic, social and legal measures as well as international experiences deemed as suitable alternative options for achieving Sustainable Development Goals in Thailand. This research focused on Target 15. Details of Target 15 included protecting, restoring and promoting sustainable use of terrestrial ecosystems; sustainably managing forests; combating desertification; reversing land degradation; halting biodiversity loss. These covered 12 targets and 14 indicators. The research method was collection of data relating to Goal 15 from various organizations and websites about sustainable development. The aim was to follow up the movement and perspective of each sector toward this issue. Further, there had been meetings to brainstorm ideas from various relevant organizations in order to double check the data status in Thailand. The ideas about various indicators as proposed by the IUCN had demonstrated that, as for Target 15, Thailand had undertakings about natural resources management including forests, earth, water, wild animals and biodiversity on an ongoing basis. Nevertheless, the initial undertakings in Thailand had no goals toward natural resources management for sustainable development. Thus, it was found that each set of resources data had no unity. The indicators that could be sequenced from high-medium potential included Indicator 15.3.1 on the run-down area portion of the entire area; Indicator 15.1.1 on the forest area portion of the entire area; Indicator 15.1.2 on the important areas for land areas and freshwater areas covering protected ecosystem areas as well as progress of sustainable forest management. The indicators that landed in the medium-low level included Indicator 15.7.1 on the portion of smuggled wild animals or illegally traded, Indicator 15.b.1 on the Official Development Assistance (ODA) and public conservation expenses as well as the utilization of biodiversity and sustainable ecosystem. Indicators 15.4.1, 15.4.2, 15.5.1, and 15.6.1 earned the same score while Indicators 15.8.1, 15.9.1, 15.a.1 and 15.c.1 had the same lowest score. The recommendation for improvement was the body of knowledge in science, technology and society, statistical data, responsible organizations, laws and adequate resources allocation.

Jirawat Suriyachotiyangkul and Nonarit Bisonyabut (2017) conducted a survey on the status of Sustainable Development Goals in the Thai context and alternative economic, social and legal measures for to Goal 16. This was so to promote a peaceful and inclusive society for sustainable development so that all could have access to justice and efficient and inclusive institutions at all levels. The objectives were to study the current status of Goal 16 in Thailand. The peaceful society, access to justice and efficient institutions with responsibility and integration formed essential parts of Goal 16. It included several targets that had to be achieved. While the available data was insufficient for assessing Thailand so that no one was left behind development, it was then necessary to review the country's available resources so that targets under Goal 16 could be prioritized. The ones that Thailand should first prioritize in the initial phase (3-5 years) on the basis of the country's potential. This research was set to study the appropriate guidelines for implementation with the achievement in mind. Economic and social recommendations were made especially the institutional measures for implementation. The results formed an understanding about the definitions and targets under Goal 16, which were in line with the context of Thailand. Additionally, recommendations were made for Thailand in order to achieve the targets and goals via the set indicators.

Kulabutr Komenkul et al. (2019) conducted a survey on the status of Goal 17 and the adaptation of targets and indicators in the context of Thailand. This was to promote global partnerships in terms of finance and commerce. This research was conducted to survey the current status and indicators under Goal 17 in relation to international finance and commerce (Targets 17.1-17.5 and 17.10-17.12). All of the eight targets focused on strengthening the sustainable development mechanisms via partnerships in international finance and commerce. This started from the survey on definitions of the relevant targets and indicators and assessed this compatibility with the context in Thailand. Subsequently, it surveyed the current status and measures related to the targets in the context of Thailand in order to propose improvement for the definitions, targets, indicators, goal scores in the context to be clearer. The research analyzed data from various sources qualitatively and quantitatively such as relevant national and international policies as well as indicator data from the World Bank's database in order to find the relationship between Goal 17 for targets related to finance, commerce and other goals (Goals 1-16 including finding the importance of Target 17.3, the next target that Thailand should pay attention to included Targets 17.1, 17.1.1, 17.2 and 17.4 consecutively. The findings were used to form guidelines for making recommendations and policies to achieve Goal 17 in the relevant targets related to international partnerships for finance and commerce. This research not only contributed to the understanding of this Goal 17 in the Thai context, but also recommended data collection methods and prioritized indicators to achieve Targets 17,.1-17.5 and 17.10-17.2 and other goals more effectively.

## Chapter 3

## Research Methodology

The survey on the overview status of Thailand's Sustainable Development Goals was a survey research. It applied a questionnaire as its research instrument to collect data in order to achieve its objectives. The research implementation was as follows:

- 1. Population and sample
- 2. Research instrument
- 3. Data collection
- 4. Analysis and conclusions

## 3.1 Population and sample

### **3.1.1** Population

The United Nations Development Programme (UNDP) set the population of the research to be civilians who lived in the 15 target provinces including Chiang Rai, Chiang Mai, Mae Hong Son, Tak, Udon Thani, Nakhon Ratchasima, Ubon Ratchathani, Bangkok, Phetchaburi, Phuket, Surat Thani, Songkhla, Pattani, Yala and Narathiwat.

Table 3.1 Population of target provinces per region, province and gender

Region Province		Age 18-	25 years	Age 26-3	35 years	Age 36-45 years		Age 46-59 years		Age 60 years above		Total (Person)	
		Male	Female	Male	Femal	Male	Female	Male	Female	Male	Female	Male	Female
1.North	1.Chiang Rai	58,107	59,043	83,793	81,152	83,587	83,269	114,722	131,696	114,738	134,247	454,947	489,407
	2.Chiang Mai	80,922	80,375	117,954	118,344	119,117	122,886	147,001	176,396	162,189	202,444	627,183	700,445
	3.Mae Hong Son	15,292	15,107	19,793	18,900	17,634	16,498	19,855	20,138	17,376	18,375	89,950	89,018
	4.Tak	35,230	33,761	40,794	38,245	36,978	35,665	46,981	49,529	38,338	44,495	198,321	201,695
2.North	1.Udon Thani	85,489	83,161	116,536	111,002	123,146	123,372	170,191	179,652	115,705	140,310	611,067	637,497
East	2.Nakhon	141,489	133,355	186,873	179,268	204,523	206,871	273,328	297,976	219,804	272,925	1,026,017	1,090,395
	Ratchasima												
	3.Nakhon	106,812	103,922	142,339	135,465	144,854	139,415	194,491	199,670	138,159	162,520	726,655	740,992
	Ratchasima												
3.Central	1.Bangkok	277,356	265,382	368,004	387,071	400,848	461,880	531,554	646,599	471,132	669,975	2,048,894	2,430,907
	2.Phetchaburi	24,165	23,501	33,316	32,842	35,716	36,558	48,586	55,296	41,576	55,992	183,359	204,189
4.South	1.Phuket	20,981	22,607	29,490	34,299	32,201	39,764	36,449	42,945	22,328	28,931	141,449	168,546
	2.Surat Thani	57,662	57,,375	77,077	76,401	81,528	83,264	106,072	111,972	76,307	95,810	398,646	424,822
	3.Songkhla	82,634	78,826	104,252	102,840	104,037	108,557	126,452	144,820	102,578	134,958	519,953	570,001
	4.Pattani	51,697	49,931	58,502	55,945	45,264	45,659	50,587	56,074	38,401	51,746	244,451	259,355
	5.Yala	36,792	34,338	43,456	42,225	33,785	34,625	39,831	43,454	30,132	37,191	183,996	191,833
	6.Narathiwat	54,848	51,390	64,529	6,3429	54,647	55,647	59,789	67,365	42,208	54,207	276,021	292,038

Source: National Statistical Office (NSO). Numbers of citizens from registrations per age, gender, region and province 2021

Retrieved 24 March 2023 from http://statbbi.nso.go.th/staticreport/page/sector/th/01.aspx.

## 3.1.2 Sample

The samples of this research included civilians aged 18 and above who resided in the 15 targeted provinces. To be in line with the research objectives, the research team applied the formulas to calculate the samples of each province by Yamane as well as Krejcie and Morgan. The error value was set at  $\pm 5\%$  or 0.05. Therefore, the sample size used in the study was not less than 400 people per province. The total samples from all target provinces were not less than 6,000 people.

Table 3.2: Yamane's table of sample size at 95% confidence level

Population		Sa	mple size b	ased on erro	ors	
Size	± 1%	± 2%	±3%	±4%	±5%	±10%
500	b	В	b	В	222	83
1,000	b	В	b	385	286	91
1,500	b	В	638	441	316	94
2,000	b	В	714	476	333	95
2,500	b	1,250	769	500	345	96
3,000	b	1,364	811	517	353	97
3,500	b	1,458	843	530	359	87
4,000	b	1,538	870	541	364	98
4,500	b	1,607	891	549	367	98
5,000	b	1,667	909	556	370	98
6,000	b	1,765	938	566	375	98
7,000	b	1,842	959	574	378	99
8,000	b	1,905	676	580	381	99
9,000	b	1,957	989	584	383	99
10,000	5,000	2,000	1,000	588	385	99
15,000	6,000	2,143	1,034	600	390	100
20,000	6,667	2,222	1,034	606	392	100
25,000	7,143	2,273	1,064	610	394	100
50,000	8,333	2,381	1,087	617	397	100
100,000	9,091	2,439	1,099	321	398	100
$\infty$	10,000	2,500	1,111	625	400	100

Source: Yamane, Taro. (1973), Statistics: An Introductory Analysis. London: John Weather Hill, Inc.

Table 3.3 Krejcie and Morgan's table of sample size

Population	cie and Morgan's  Sample size	Population	Sample size	Population	Sample
(N)	(S)	(N)	(S)	(N)	size (S)
10	10	220	140	1,200	291
15	14	230	144	1,300	297
20	19	240	148	1,400	302
25	24	250	152	1,500	306
30	28	260	155	1,600	310
35	32	270	159	1,700	313
40	36	280	162	1,800	317
45	40	290	165	1,900	320
50	44	300	169	2,000	322
55	48	320	175	2,200	327
60	52	340	181	2,400	331
65	56	360	186	2,600	335
70	59	380	191	2,800	338
75	63	400	196	3,000	341
80	65	420	201	3,500	345
85	70	440	205	4,000	351
90	73	460	210	4,500	354
95	76	480	214	5,000	357
100	80	500	217	6,000	361
110	86	550	226	7,000	364
120	92	600	234	8,000	367
130	97	650	242	9,000	368
140	103	700	248	10,000	370
150	108	750	254	15,000	375
160	113	800	260	20,000	377
170	118	850	265	30,000	379
180	123	900	069	40,000	380
190	127	950	274	50,000	381
200	132	1,000	278	75,000	382
210	136	1,100	285	100,000	384

**Source:** Krejcie, R.V., and Morgan, D.W. (1970) Determining Sample Size for Research Activities. Educational and Psychological Measurement. 30, 607 – 610.

In summary, after considering the tables above for sampling purposes based on Yamane as well as Krejcie and Morgan, the sample size determinations were in the same direction. Thus, the research team used them as the guide for this research. The sample size for the target provinces comprised civilians aged 18 and above who resided in the targeted provinces. Each province had the sample size of not less than 400 people. There were 15 targeted province; therefore, there were not less than 6,000 people in total.

Table 3.4 Sample size per region and province

Region	Province	Sample (person) No less than
1. Northern region	1. Chiang Rai	400
	2. Chiang Mai	400
	3. Mae Hong Son	400
	4. Tak	400
2. North-eastern region	1. Udon Thani	400
	2. Nakhon	400
	Ratchasima	
	3. Ubon Ratchath	ani 400
3.Central region	1. Bangkok	400
	2. Phetchaburi	400
4. Southern region	1. Phuket	400
	2. Surat Thani	400
	3. Songkhla	400
	4. Pattani	400
	5. Yala	400
	6. Narathiwat	400
Tot	al	6,000

### 3.1.3 Sampling method

The research team applied the multi-stage stratified ramdom sampling technique to ascertain the sample size that was distributed and representative of the population. The samples were collected proportionately with the the civilians who resided in the targeted provinces. The steps were as follows:

**Step 1** As for the selection of provinces, the research team applied purposive sampling in accordance with what the employer had set. It included four regions with 15 provinces: the northern region including 1) Chiang Rai, 2) Chiang Mai, 3) Mae Hong Son, 4) Tak; the north-eastern region including 5) Udon Thani, 6) Nakhon Ratchasima, 7) Ubon Ratchathani; the central region including 8) Bangkok, 9) Petchaburi; and the southern

region including 10) Phuket, 11) Surat Thani, 12) Songkhla, 13) Pattani, 14) Yala and 15) Narathiwat. For each province, the research team set the samples to be surveyed equally, which were not less than 400 samples per province. In total, 15 provinces had not less than 6,000 samples.

Step 2 At the district level, the research team surveyed three districts: the  $1^{st}$  districts using Purposive Sampling with only the mueang district; the  $2^{nd}$  and  $3^{rd}$  districts using simple random sampling so that every district had an equal chance to be selected. There were 45 districts in total.

Table 3.5 List of sample districts per region, province and district

		Distri	cts randomized in 1s	st
Region	Province	1st District	2nd District	3rd District
1. Northern	1. Chiang Rai	Mueang Chiang Rai	Phan	Mae Fah Luang
region	2. Chiang Mai	Mueang Chiang Mai	Maerim	Jomthong
	3. Mae Hong	Mueang Mea Hong	Mae La Noi	Pai
	Son	Son		
	4. Tak	Mueang Tak	Phop Phra	Mae Sot
2. North-	1. Udon Thani	Mueang Udon Thani	Nong Han	Non Sa-at
eastern	2. Nakhon	Mueang Nakhon	Dan Khun Thot	Non Sung
region	Ratchasima	Ratchasima		
	3. Ubon	Mueang Ubon	Phibun Mangsahan	Muang Sam Sip
	Ratchathani	Ratchathani		
3. Central	1. Bangkok	Dusit	Phasi Charoen	Lat Krabang
region	2. Phetchaburi	Mueang Phetchaburi	Cha-am	Kaeng Krachan
4. Southern	1. Phuket	Mueang Phuket	Kathu	Thalang
region	2. Surat Thani	Mueang Surat Thani	Phunphin	Ban Na Sao
	3. Songkhla	Mueang Songkhla	Hat Yai	Rattaphum
	4. Pattani	Mueang Pattani	Mayo	Thung Yang
				Daeng
	5. Yala	Mueang Yala	Raman	Yaha
	6. Narathiwat	Mueang Narathiwat	Ra-ngae	Yi-ngo

Source: Research team

**Step 3** At the sub-district level, the research team surveyed two sub-districts/district using the Simple Random Sampling in order for each sub-district in any given district to have an equal chance of being selected. There were 90 sub-districts in total. Following the determination of the sub-districts, the research team applied the

Convenience Sampling to ascertain the samples in the proportion according to the gender charateristic of each sub-district. The data collection was distributed across community areas such as government buildings, educational institutions, freshmarkets, shopping centers and so on.

 Table 3.6 List of sub-districts per region, province, district and sub-district

Region	Province	1st District	Sub-district	2nd District	Sub-district	3rd District	Sub-district
1. Northern	1. Chiang Rai	Mueang Chiang	Rop Wieng	Phan	Mueang Phan	Mae Fah	Thoet Thai
region		Rai	Mae Yao		Sai Khao	Luang	Mae Salong Nai
	2. Chiang Mai	Mueang Chiang	Suthep	Mae Rim	Don Kaeo	Chom Thong	Ban Luang
		Mai	Chang Phueak		Rim Tai		Sop Tia
	3. Mae Hong	Mueang Mae	Pang Mu	Mae La Noi	Mae La Noi	Pai	Wiang Tai
	Son	Hong Son	Pha Bong		Mae La Luang		Mae Na Toeng
	4. Tak	Mueang Tak	Mai Ngarm	Phop Phra	Khiri Rat	Mae Sot	Mae Sot
			Wang Hin		Ruam Thai Pattana		Tha Sai Luat
2. Northern-	1. Udon Thani	Mueang Udon	Chiang Yuen	Nong Han	Pon Ngarm	Non Sa-at	Khok Klang
eastern		Thani	Sam Phrao		Nong Mek		Pho Si Samram
region	2. Nakhon	Mueang Nakhon	Pho Klang	Dan Khun Thot	Takhian	Non Sung	Makha
	Ratchasima	Ratchasima	Suranaree		Hin Dat		Mueang Prasat
	3. Ubon	Mueang Ubon	Kham Yai	Phibun	Don Chik	Muang Sam	Nong Mueang
	Ratchathani	Ratchathani	Hua Reau	Mangsahan	Khud Chomphu	Sip	Nong Lao
3. Central	1. Bangkok	Dusit	Dusit	Phasi Charoen	Bang Wa	Lat Krabang	Khlong Song Ton
region							Nun
			Nakhon Chai Si		Bang Duan		Thap Yang
	2. Phetchaburi	Mueang	Tha Rap	Cha-am	Khao Yai	Kaeng	Pa Deng
		Petchaburi	Ban Mo		Cha-am	Krachan	Song Phi Nong
4. Southern	1. Phuket	Mueang Phuket	Talad Yai	Kathu	Kathu	Talang	Si Sunthon
region			Ratsada		Pa Tong		Mai Khao
	2. Surat Thani		Wat Pradu	Phunphin	Tha Kham	Ban Na San	Khuan Si

Region	Province	1st District	Sub-district	2nd District	Sub-district	3rd District	Sub-district
		Mueang Surat	Khlong Noi		Bang Ngon		Phru Phi
		Thani					
	3. Songkhla	Meaugn	Bo Yang	Hat Yai	Hat Yai	Rattaphum	Kamphaeng Phet
		Songkhla	Khao Rup Chang		Khuan Lang		Tha Chamuang
	4. Pattani	Mueang Pattani	eang Pattani Sa Ba Rang		La Nga	Thung Yang	Phithen
			Bana		Lubo Yiri	Daeng	Paku
	5. Yala	Mueang Yala	Sateng	Raman	Kayuboko	Yaha	Yaha
			Lam Phaya		Noen Ngam		Patae
	6. Narathiwat	Mueang	Bang Nak	Ra-gnae	Tanyong Mat	Yi-ngo	Cho Bo
		Narathiwat	Bang Po		Bo-ngo		Lahan

Source: Research team

#### 3.2 Research instrument

#### 3.2.1 Questionnaire

The research team developed the research instrument based on the following steps:

- 3.2.1.1 Study research instrument designs capable of data collection based on relevant academic documents in order to use them as guidelines to set the conceptual framework for developing the questionnaire.
- 3.2.1.2 Study concepts, theories, and related research papers by considering details that covered the set research objectives.
- 3.2.1. Develop the questionnaire that covered the research objectives to be the research instrument for data collection from the samples. The data was later used in the analysis.
- 3.2.1.4 Design the research instrument (Online Questionnaire) using QuestionPro to be used on one platform for the UNDP and its networks to use for data collection.

#### 3.2.2 Validation of research instrument

- 3.2.2.1 Qualified persons/experts validated the research instrument.
- 3.2.2.2 The research team developed and improved the research instrument as per recommendations.
- 3.2.2.3 The research instrument was tried on another group of samples similar to the samples of the population. Each provice tested not less than 30 questionnaire sets. In total 146 questionnaire sets were tried as follows:

(1) Bangkok	35 sets
(2) Chiang Mai	35 sets
(3) Udon Thani	38 sets
(4) Narathiwat	38 sets

The trial method was as follows:

Step 1: The research team tried the questionnaire on another group of samples similar to those of the population. The focus group technique was used on the respondents. The samples tried the online questionnaire by commencing in three provinces including Bangkok, Chiang Mai and Udon Thani. It was found that the respondents did not understand the language used in it. For example, Part 1, No. 11: issues on innovation areas, smart cities. The samples did not understand these terms. Therefore, the research team improved the questionnaire via face validity.

Step 2: The research team used the improved questionnaire to try with another group of samples in Narathiwat. The focus group technique was also used with the respondents. The samples tried the online questionniare. It was found that the

respondents understood the improved questionnaire and were able to reflect upon what was intended to be studied.

3.2.2.4 Following the validation of the research instrument, the research team designed the research instrument (Online Questionniare) using QuestionPro for one platform in order for the UNDP and its networks to use for data collection.

Table 3.7 Summary of research instrument trial

	Questionnaire (Pre-improved)	Questionnaire (Improved)		
Content	Areas for quest	ionnaire trials		
	Bangkok, Udon Thani, Chiang Mai	Narathiwat		
Part 1	- No. 3: Vulnerable conditions. The	- Research team improved the		
	no-vulnerable conditions response	questionnaire and found the trial		
	should be moved to the bottom as	group understood the question		
	respondents would not notice it.	and was able to answer it.		
Part 2	- Text in the table was small.	- Research team improved the		
	- Statements had to be repeatedly	questionnaire and found the trial		
	read.	group understood the question		
	- Time consuming.	and was able to answer it in a		
	- No. 11: issues on areas did not	more timely manner.		
	make sense.			
	Innovation, smart city.			
Part 3	- Choices 1 and 2 were unclear and	- Research team improved the		
	Difficult to understand	questionnaire by putting the text in		
		bold for better understanding and		
		found the trial group understood		
		the question and was able to		
		answer it.		

The research instrument trial (Online Questionnaire) in the four provinces indicated that the majority of the samples understood and were able to answer questions by themselves. However, the research team also found areas requiring improvement as follows:

- When the samples answering questions on each page, they would see the blue text "NEXT" which should be translated into Thai "หน้าถัดไป" for them to understand and be able to answer the questions by themselves without assistance of staff. This would help to greatly shorten the time required to complete the questionnaire.

- When the samples came to answer questions in Part 3, which was the last page, they would see the blue text "DONE" which should be translated into Thai "กดส่ง" for them to understand, complete the questionnaire and submit it
- After the samples submitted the questionnaire, the next page would generate the text "Thank you for completing this survey." which should be translated into Thai "ขอบคุณสำหรับการตอบแบบสอบถาม" for them to understand the the questionnaire had been successfully submitted.

### 3.3 Data collection

### Data collection method

The United Nations Development Programme (UNDP) set the timeframe for data collection between June to December 2023. To derive the samples according to the targeted provinces and achieve the goals according to the research objectives, the survey method for data collection was conducted as follow:

### 5.3.1 In-person Offline Survey

- SuDSESC was responsible for this part. It used the research instrument (Questionnaire) to conduct in-person offline survey in the 15 targeted provinces (400 samples per provice totalling 6,000 samples) to collect data.

### 5.3.2 Online Survey

- SuDSESC designed the research instrument (Online Questionnaire) using OuestionPro.
- The UNDP and its networks used the research instrument (Online Questionnaire) developed by QuestionPro using the online survey technique in the 15 targeted provinces (100,000 samples totalling 150,000 samples) to collect data.

**Note:** After conducting an online survey in 15 target provinces, problems and obstacles were found, including unable to collect data from the sample in the specified amount and within the specified time period, and number of questions had to be adjusted lower which was inconsistent with all 17 Sustainable Development Goals. Therefore, the research team did not use online survey data for analysis.

## 3.4 Data analysis and conclusions

The research team analyized the data based on the questionnaire using statistics including frequency distribution, percentage and mean score. The analysis covered the followings:

- 3.4.1 Evaluating the questionnaire based the statistics and the using the results to analyze the research framework.
- 3.4.2 Reporting results by demonstrating the percentage of targeted provinces as well as distributing the frequency of data in the research format.
- 3.4.3 Analyzing the results to understand the problems and situations relating to Sustainable Development Goals in the targeted provinces; and additional recommendations. These may help with correct priority and planning for implementation in tandem with appropriate resources allocations.
- 3.4.4 Preparting a summary report on the overall results and for each province including the anazlyzed results in the forms of semi-tables, tables and illustrations as per the appropirate content. This shall be with translation or interpretation of data derived from the analysis and discussion of the survey/research and so on.
  - 3.4.5 Preparing the completed research report in Thai and English.

## **CHAPTER 4**

## Results of Data Analysis

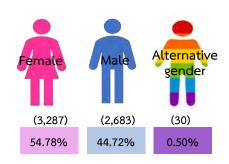
The project to survey data on the status of the Sustainable Development Goals in Thailand overall aims to survey public opinions on the state of the Sustainable Development Goals in the target provinces. This drives Thailand's commitment to achieving the Sustainable Development Goals 2030 through working with government agencies, the private sector, and civil society starting with the target area of 15 provinces and plans to expand to other provinces in the country. This survey is a survey research using a multi-stage sampling method which collects field data (Field Survey) by means of direct interviews with respondents (In-person offline survey). The target group is the general public aged 18 years and over and residing in the 15 target provinces. Data are collected between 20 November and 3 December 2023, totaling 6,000 samples and analyzed the data with a statistical package using descriptive statistics to explain the data. The presentation of the data analysis results is divided into details as follows:

- 1. Overall survey results (n = 6,000)
- 2. Survey results classified by province (Target provinces: 15 provinces)
  - 2.1 Survey results of Chiang Rai Province (n = 400)
  - 2.2 Survey results of Chiang Mai Province (n = 400)
  - 2.3 Survey Results of Mae Hong Son Province (n = 400)
  - 2.4 Survey results of Tak province (n = 400)
  - 2.5 Survey results of Bangkok (n = 400)
  - 2.6 Survey results of Phetchaburi province (n = 400)
  - 2.7 Survey results of Udon Thani Province (n = 400)
  - 2.8 Survey results of Nakhon Ratchasima Province (n = 400)
  - 2.9 Survey results of Ubon Ratchathani Province (n = 400)
  - 2.10 Survey results of Surat Thani Province (n = 400)
  - 2.11 Survey results of Phuket province (n = 400)
  - 2.12 Survey results of Songkhla province (n = 400)
  - 2.13 Survey results of Pattani province (n = 400)
  - 2.14 Survey results of Yala Province (n = 400)
  - 2.15 Survey results of Narathiwat province (n = 400)

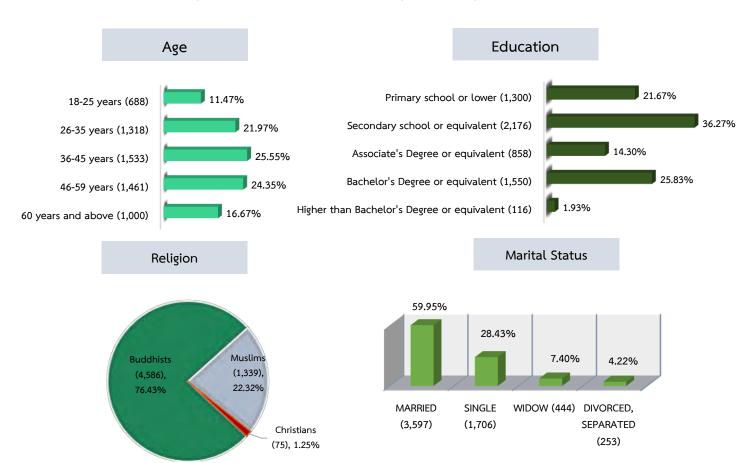
### 1. Overall survey results

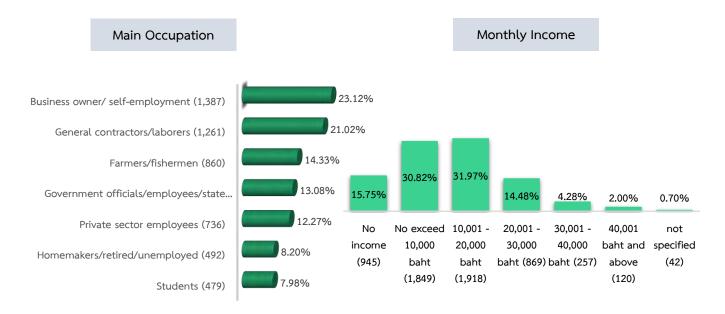
### Part 1 Information about general characteristics

Overall survey of 15 target provinces from a total of 6,000 samples, the majority of the sample is female, 54.78 percent, followed by males at 44.72 percent, and alternative gender (LGBTQ) 0.50 percent. Most are between 36-45 years old, 25.55 percent, followed by age between 46-55 years, 24.35 percent, and between 26-35 years old, 21.97 percent. The

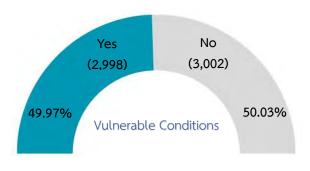


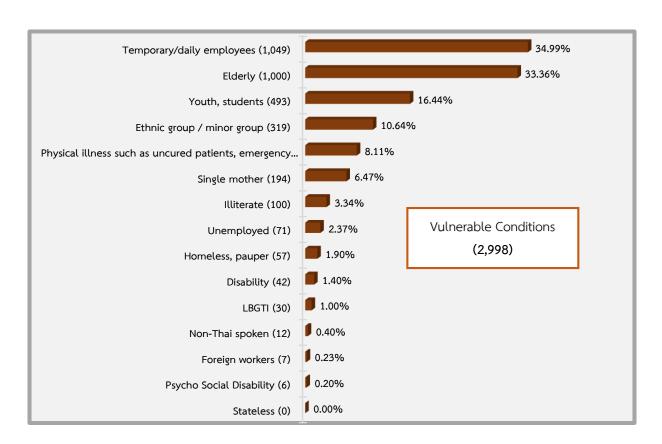
highest number of graduates is at the secondary school level or equivalent, at 36.27 percent, followed by bachelor's degree or equivalent, 25.83 percent, and primary school level or lower, 21.67 percent. Most of the sample are Buddhists, 76.43 percent, followed by Muslims at 22.32 percent and Christianity at 1.25 percent. Most have marital status of married, 59.95 percent, followed by single at 28.43 percent and widow at 7.40 percent. Most of their main occupation is the business owner/self-employment, 23.12 percent, followed by general contractors/laborers at 21.02 percent and farmers/fishermen at 14.33 percent. Most have the average monthly income of 10,001-20,000 baht, 31.97 percent, followed by not exceeding 10,000 baht at 30.82 percent and no income at 15.75 percent, respectively.





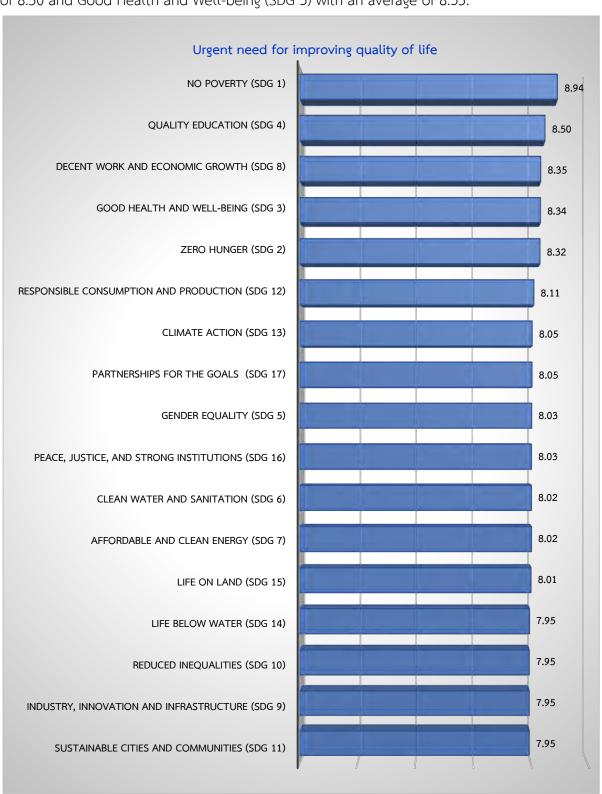
From this survey, it is found that 50.03 percent of the samples are not in vulnerable conditions and had vulnerable conditions of 49.97 percent. Among the samples with vulnerable conditions, most are temporary/daily employees, 34.99 percent, 33.36% are elderly and 16.44% are youth and students, respectively.





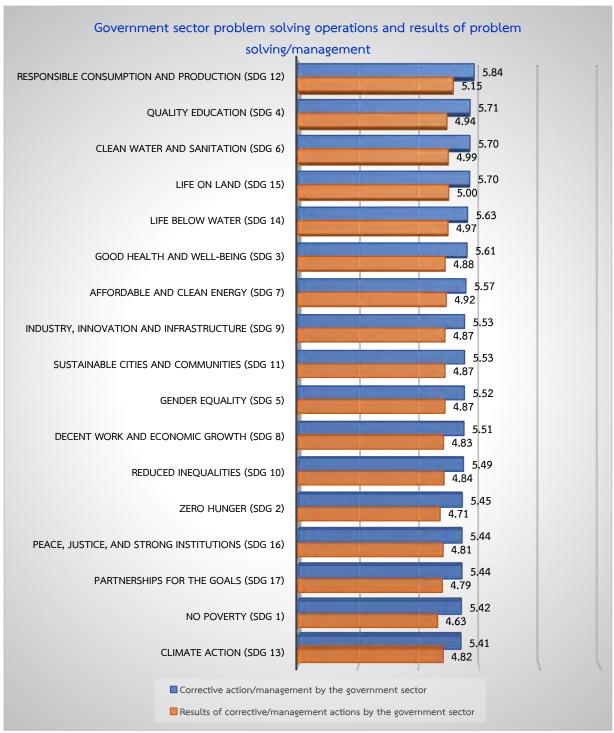
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are 17 Sustainable Development Goals: SDGs). The results of the survey found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.94, followed by Quality Education (SDG 4) with an average of 8.50 and Good Health and Well-being (SDG 3) with an average of 8.35.



For the government sector's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.84, followed by Quality Education (SDG 4), the average is 5.71, and Clean Water and Sanitation (SDG 6), the average is 5.70.

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average value of 5.15, followed by Life on Lands (SDG 15) with an average value of 5.00 and Clean Water and Sanitation (SDG 6) with an average value of 4.99. Details are as shown in Table 4.1.



**Table 4.1** Mean standard deviation of urgent needs and actions to solve problems of the government sector (overview)

government sector	Urgent need		Government operations					
		ds the	Gover	nment		ults of		
	development of		sector problem		corrective/management			
Development issues	quality of life		-	perations	actions			
	Standar			Standard		Standard		
	Average	deviation	Average	deviation	Average	deviation		
SDG 1 No Poverty	8.94	1.469	5.42	1.988	4.63	1.890		
poverty alleviation	8.94	1.469	5.42	1.988	4.63	1.890		
SDG 2 Zero Hunger	8.32	1.462	5.45	1.777	4.71	1.723		
Developing smallholder	8.38	1.618	5.40	1.893	4.65	1.832		
farmers to promote a								
sustainable food system								
Having Good Health and	8.27	1.619	5.51	1.871	4.80	1.808		
nutrition *								
SDG 3 Good Health and	8.34	1.482	5.61	1.816	4.88	1.773		
Well-being								
Having good mental health	8.28	1.680	5.52	1.908	4.81	1.863		
Road safety	8.42	1.585	5.72	1.959	4.96	1.886		
SDG 4 Quality Education	8.50	1.388	5.71	1.821	4.94	1.771		
Quality Education	8.59	1.507	5.71	1.947	4.98	1.891		
Having the skills necessary	8.42	1.557	5.72	1.927	4.92	1.861		
for a career								
SDG 5 Gender Equality	8.03	1.803	5.52	1.931	4.87	1.831		
Eliminating sexual violence	8.03	1.803	5.52	1.931	4.87	1.831		
in private and public spaces								
SDG 6 Clean Water and	8.02	1.631	5.70	1.801	4.99	1.738		
Sanitation								
Availability and access to	8.10	1.745	5.79	1.999	5.02	1.898		
clean water for drinking and								
use								
Solving water pollution	7.95	1.865	5.63	1.910	4.97	1.845		
problems *								
SDG 7 Affordable and	8.02	1.778	5.57	1.859	4.92	1.795		
Clean Energy								
Having and having universal	8.02	1.778	5.57	1.859	4.92	1.795		
access to clean energy								
SDG 8 Decent Work and	8.35	1.560	5.51	1.894	4.83	1.801		
Economic Growth								

	Urgen	t need		Governm	ent operatio	Government operations				
	_	ds the	Government			ults of				
	development of		sector problem		corrective/manageme					
Development issues	quality	of life	solving o	perations	ac	tions				
	A	Standard	A	Standard	A	Standard				
	Average	deviation	Average	deviation	Average	deviation				
Employment and access to	8.35	1.560	5.51	1.894	4.83	1.801				
good work opportunities										
SDG 9 Industry, Innovation	7.95	1.765	5.53	1.879	4.87	1.790				
and Infrastructure										
Adapting to a green economy	7.95	1.765	5.53	1.879	4.87	1.790				
(Design of infrastructure,										
roads, water, electricity,										
buildings)*										
SDG 10 Reduced	7.95	1.767	5.49	1.879	4.84	1.819				
Inequalities										
Participation and equal	7.95	1.767	5.49	1.879	4.84	1.819				
access to opportunities for										
women and gender diverse										
people										
SDG 11 Sustainable Cities	7.95	1.765	5.53	1.879	4.87	1.790				
and Communities										
Adapting to a green economy	7.95	1.765	5.53	1.879	4.87	1.790				
(Design of infrastructure,										
roads, water, electricity,										
buildings)*										
SDG 12 Responsible	8.11	1.785	5.84	1.969	5.15	1.923				
Consumption and										
Production										
Waste management (Reduce	8.11	1.785	5.84	1.969	5.15	1.923				
Reuse Recycle)										
SDG 13 Climate Action	8.05	1.699	5.41	1.802	4.82	1.701				
Solving air pollution	8.13	1.868	5.33	1.948	4.75	1.837				
problems										
Raising awareness of the	7.98	1.818	5.50	1.915	4.91	1.798				
impacts of climate change or										
global warming. (Climate										
Change)										
SDG 14 Life Below Water	7.95	1.865	5.63	1.910	4.97	1.845				

	Urgent need		Government operations			
Development issues	towards the		Government		Results of	
	development of		sector problem		corrective/management	
	quality of life		solving operations		actions	
	Average	Standard deviation	Average	Standard deviation	Average	Standard deviation
Solving water pollution	7.95	1.865	5.63	1.910	4.97	1.845
problems *						
SDG 15 Life on Land	8.01	1.564	5.70	1.735	5.00	1.691
Coping with and reducing	8.08	1.657	5.80	1.860	5.04	1.805
the impact of natural						
disasters						
Participatory management of	7.94	1.774	5.61	1.900	4.97	1.813
forests and green areas						
SDG 16 Peace, Justice and	8.03	1.748	5.44	1.903	4.81	1.830
Strong Institutions						
Managing quality public	8.03	1.748	5.44	1.903	4.81	1.830
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.05	1.685	5.44	1.880	4.79	1.808
the Goals						
Participation in proposing	8.05	1.685	5.44	1.880	4.79	1.808
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

As for guidelines for improving the quality of life, the sample agreed that appropriate local policies should be developed and improved with the highest percentage of 47.23 percent, followed by no corruption and increased efficiency of information disclosure for transparent administration, 44.50 percent, and creating social and economic projects for thorough local development, 43.93 percent, details as shown in Table 4.2

Table 4.2 Number and percentage of approaches to improving quality of life (overview)

Guidelines for improving quality of life	Samples	Percentage
Appropriate local policies are developed and improved.	2,834	47.23
There is no corruption and increases the efficiency of	2,670	44.50
information disclosure for transparent management.		
Social and economic projects are created for comprehensive	2,636	43.93
local development.		
There is a decentralization of capital resources and authority in	2,489	41.48
local administration.		
Cooperation is created to create effective development policies	2,119	35.32
in the community.		
There is a space to exchange local knowledge between	2,053	34.22
community members and applied to development.		
Roles of participation in the community are promoted equally	1,591	26.52
for all genders.		
Knowledge about environmental conservation and Waste	1,524	25.40
management is provided.		

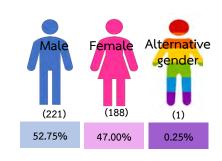
**Note:** Respondents can choose 3 answers, with a sample of 6,000 respondents.

### 2. Survey results by province

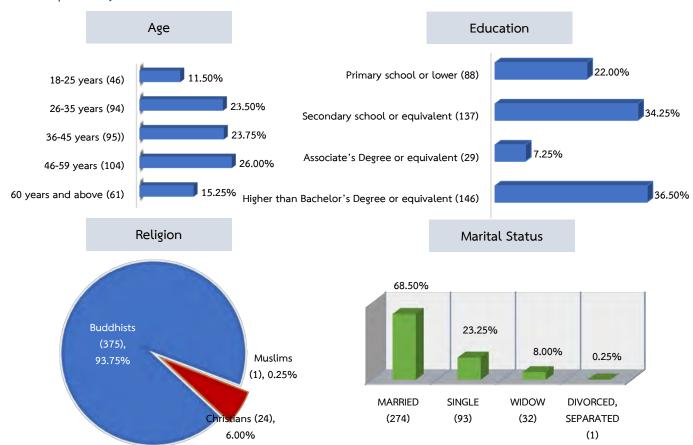
### 2.1 Chiang Rai Province

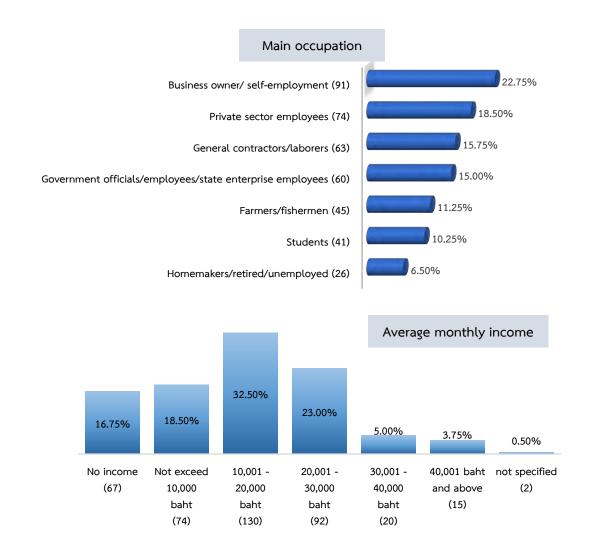
### Part 1 Information about general characteristics

Survey of Chiang Rai Province data from a total of 400 samples, the majority of samples are male, 52.75 percent, followed by female at 47.00 percent and LGBTQ at 0.25 percent. Most are between 46-59 years old, 26.00 percent, followed by ages between 36-45 years, 23.75 percent, and ages between 26-35 years, 23.50 percent. The highest number of graduates is a bachelor's degree or equivalent,

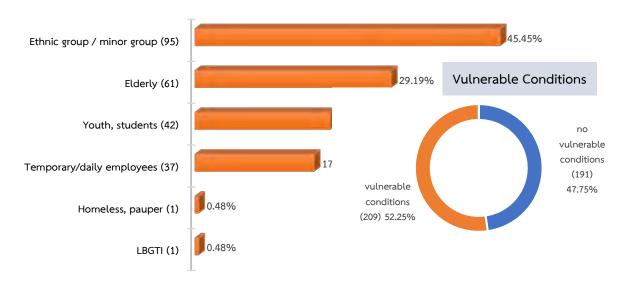


36.50 percent, followed by secondary school level or equivalent, 34.25 percent, and primary school level or lower, 22.00 percent. Most of the sample are Buddhists at 93.75 percent, followed by Christianity at 6.00 percent and Muslims at 0.25 percent. Marital status of married is the highest at 68.50 percent, followed by single at 23.25 percent and widow at 8.00 percent. Most of their main occupation is the business owner/self-employment, 22.75 percent, followed by private sector employees, 18.50 percent, and general contractors/laborers, 15.75 percent. Most of the average monthly income of 10,001-20,000 baht is 32.50 percent, followed by 20,001-30,000 baht, 23.00 percent, and not more than 10,000 baht, 18.50 percent, respectively.



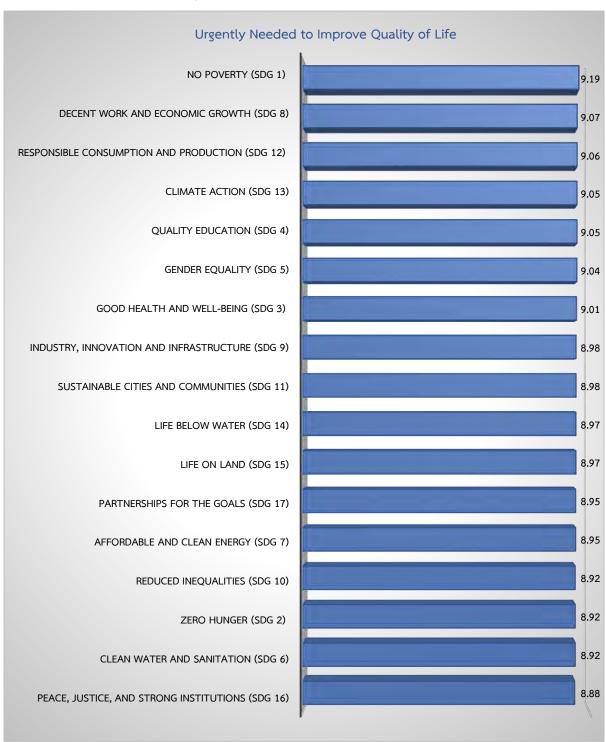


From this survey, it is found that 52.25% of the samples are in vulnerable conditions and 47.75% are not in vulnerable conditions. Among the samples with vulnerable conditions are minorities. The highest ethnicity is 45.45 percent, followed by the elderly at 29.19 percent and youth and students at 20.10 percent, respectively.



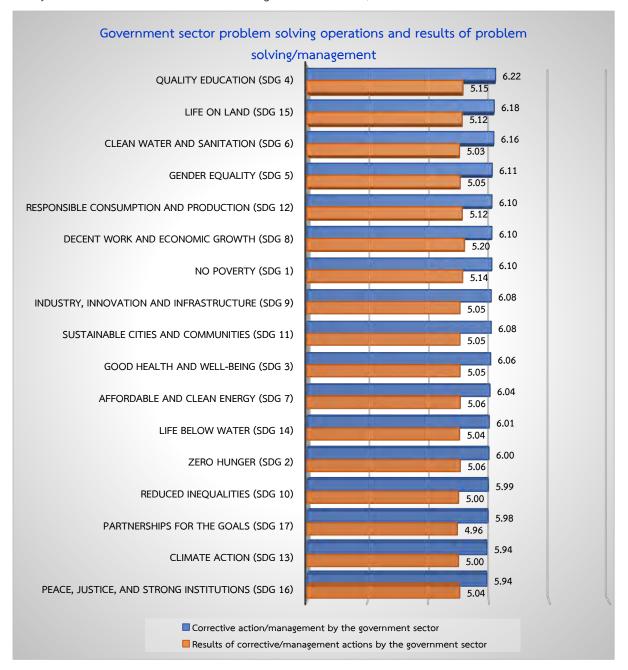
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.19, followed by Decent Work and Economic Growth (SDG 8), the average is 9.07. Responsible Consumption and Production (SDG 12) average is 9.06. Climate Action (SDG 13) and Quality Education (SDG 4) have the same average value of (9.05) and Gender Equality (SDG 5) average is 9.04



For the government sector's implementation of problem solving, it is found that Quality Education (SDG 4) had the highest average. The average is 6.22, followed by Life on Lands (SDG 15), the average is 6.18. Clean Water and Sanitation (SDG 6) average is 6.16 Gender Equality (SDG 5) has an average value of 6.11 and Responsible Consumption and Production (SDG 12) has an average value of 6.10.

As for the results of the government sector's corrective/management actions, it is found that Decent Work and Economic Growth (SDG 8) had the highest averages. The average is 5.20. Next to Quality Education (SDG 4) with the average of 5.15. No Poverty (SDG 1) average is 5.14. Responsible Consumption and Production (SDG 12) and Life on Lands (SDG 15) have the same average value of 5.12. Hunger elimination (SDG 2) and accessible clean energy for everyone (SDG 7) have the same average value of 5.06, details as shown in Table 4.3.



**Table 4.3** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Chiang Rai Province)

government sector.	Urgent need		Government operations			
	towards the		Government		Results of	
De ales e (1)	development of		sector problem		corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 1 Poverty eradiation	9.19	0.960	6.10	1.528	5.14	1.104
poverty alleviation	9.19	0.960	6.10	1.528	5.14	1.104
SDG 2 Hunger elimination	8.92	0.875	6.00	1.446	5.06	1.214
Developing smallholder	8.89	0.980	6.03	1.428	5.02	1.223
farmers to promote a						
sustainable food system						
Having Good Health and	8.95	0.894	6.00	1.588	5.10	1.336
nutrition *						
SDG 3 Have Good Health	9.01	0.685	6.06	1.616	5.05	1.321
and Well-being						
Having good mental health	8.99	0.928	6.16	1.615	5.11	1.346
(Mental Health)						
Road safety	9.03	0.693	5.97	1.774	5.02	1.397
SDG 4 Quality Education	9.05	0.679	6.22	1.609	5.15	1.330
Quality Education	9.09	0.881	6.16	1.711	5.09	1.419
Having the skills necessary	9.00	0.853	6.28	1.644	5.22	1.350
for a career						
SDG 5 Gender Equality	9.04	0.849	6.11	1.676	5.05	1.367
Eliminating sexual violence	9.04	0.849	6.11	1.676	5.05	1.367
in private and public spaces						
SDG 6 Clean Water and	8.92	0.651	6.16	1.608	5.03	1.277
Sanitation						
Availability and access to	8.88	0.809	6.34	1.774	5.04	1.385
clean water for drinking and						
use						
Solving water pollution	8.97	0.752	6.01	1.641	5.04	1.367
problems *						
SDG 7 Affordable and	8.95	0.799	6.04	1.636	5.06	1.419
Clean Energy						
Having and having universal	8.95	0.799	6.04	1.636	5.06	1.419
access to clean energy						

	Urgen	t need Government operations				ons
	towards the		Government		Results of	
	development of		sector problem		corrective/management	
Development issues	quality of life		solving o	perations	actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 8 Decent Work and	9.07	0.803	6.10	1.704	5.20	1.393
Economic Growth						
Employment and access to	9.07	0.803	6.10	1.704	5.20	1.393
good work opportunities						
SDG 9 Industry, Innovation	8.98	0.742	6.08	1.685	5.05	1.400
and Infrastructure						
Adapting to a green economy	8.98	0.742	6.08	1.685	5.05	1.400
(Design of infrastructure, roads						
water, electricity, buildings)*						
SDG 10 Reduced	8.92	0.754	5.99	1.639	5.00	1.334
Inequalities						
Participation and equal	8.92	0.754	5.99	1.639	5.00	1.334
access to opportunities for						
women and gender diverse						
people						
SDG 11 Sustainable Cities	8.98	0.742	6.08	1.685	5.05	1.400
and Communities						
Adapting to a green economy	8.98	0.742	6.08	1.685	5.05	1.400
(Design of infrastructure, roads						
water, electricity, buildings)*						
SDG 12 Responsible	9.06	0.742	6.10	1.598	5.12	1.344
Consumption and						
Production						
Waste Management (Reduce	9.06	0.742	6.10	1.598	5.12	1.344
Reuse Recycle)						
SDG 13 Climate Action	9.05	0.689	5.94	1.607	5.00	1.331
Solving air pollution	9.13	0.856	5.90	1.733	4.94	1.428
problems						
Raising awareness of the	8.97	0.868	5.99	1.695	5.07	1.445
impacts of climate change or						
global warming. (Climate						
Change)						
SDG 14 Life Below Water	8.97	0.752	6.01	1.641	5.04	1.367

	Urgent need		Government operations			
Development issues	towards the		Government		Results of	
	development of		sector problem		corrective/management	
	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
Solving water pollution	8.97	0.752	6.01	1.641	5.04	1.367
problems *						
SDG 15 Life on Land	8.97	0.660	6.18	1.561	5.12	1.297
Coping with and reducing	8.96	0.877	6.20	1.746	5.08	1.421
the impact of natural						
disasters						
Participatory management of	8.97	0.768	6.16	1.596	5.17	1.353
forests and green areas						
SDG 16 Peace, Justice and	8.88	0.700	5.94	1.602	5.04	1.185
Strong Institutions						
Managing quality public	8.88	0.700	5.94	1.602	5.04	1.185
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.95	0.885	5.98	1.723	4.96	1.399
the Goals						
Participation in proposing	8.95	0.885	5.98	1.723	4.96	1.399
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, the sample agreed that capital resources and local administrative power should be distributed as much as possible, 54.00 percent, followed by appropriate local policies that should be developed and improved, 43.50 percent, and no corruption and increases the efficiency of information disclosure for transparent management, 41.25 percent, details as shown in Table 4.4.

**Table 4.4** Number and percentage of approaches to improving quality of life (Chiang Rai Province)

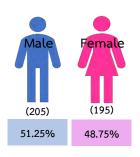
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	216	54.00
local administration.		
Appropriate local policies are developed and improved.	174	43.50
There is no corruption and the efficiency of information disclosure	165	41.25
is increased for transparent management.		
Knowledge about environmental conservation and Waste	160	40.00
management is provided.		
There is a space to exchange local knowledge between	158	39.50
community members and apply it to development.		
Social and economic projects are created for comprehensive local	120	30.00
development.		
Cooperation is created to create effective development policies in	115	28.75
the community.		
Roles of participation in the community are promoted equally for	90	22.50
all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

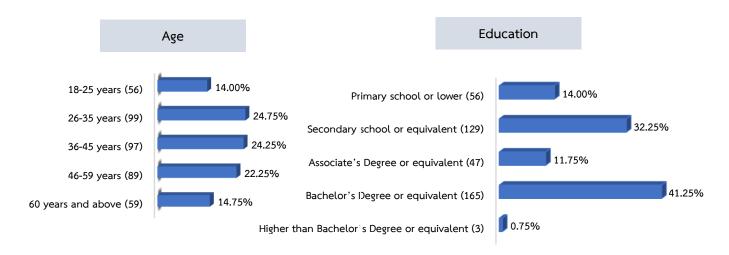
### 2.2 Chiang Mai Province

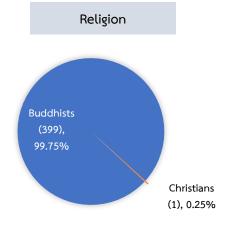
### Part 1 Information about general characteristics

From data survey of Chiang Mai province, out of a total of 400 samples, 51.25 percent are male and 48.75 percent are female. Most are between 26-35 years old, 24.75 percent, followed by ages between 36-45 years, 24.25 percent, and ages between 46-59 years, 22.25 percent. The highest number of graduates is a bachelor's degree or equivalent, 41.25 percent, followed by secondary school level or equivalent, 32.25 percent, and primary

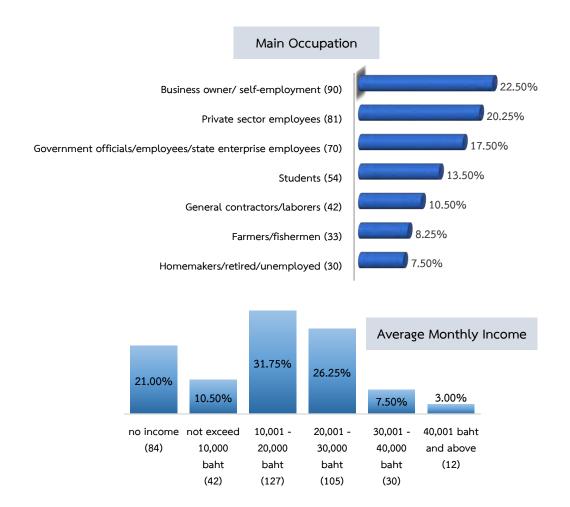


school level or lower, 14.00 percent. Most of the sample is Buddhist (99.75%) and Christian (0.25%). Most have marital status of married, 56.75 percent, followed by single at 29.50 percent and widow at 11.25 percent. Most of their main occupation is the business owner/self-employment, 22.50 percent, followed by private sector employees, 20.25 percent, and government officials/employees/state enterprise employees, 17.50 percent. Most of an average monthly income of 10,001 – 20,000 is 31.75 percent, followed by 20,001 - 30,000 baht, 26.25 percent, and no income, 21.00 percent, respectively.

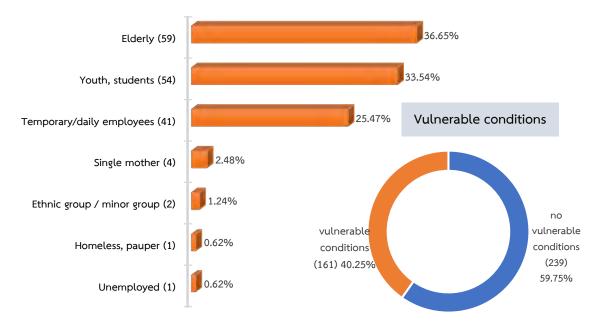






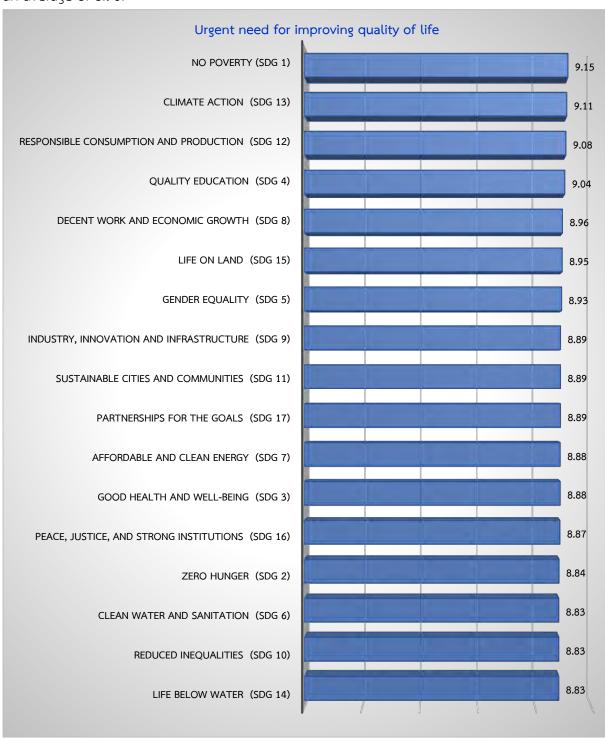


From this survey, it is found that 59.75 percent of the samples are not in vulnerable conditions and 40.25 percent are in vulnerable conditions. Among the samples with vulnerable conditions, most are the elderly, 36.65 percent, followed by youths and students at 33.54 percent and temporary/daily employees at 25.47 percent, respectively.



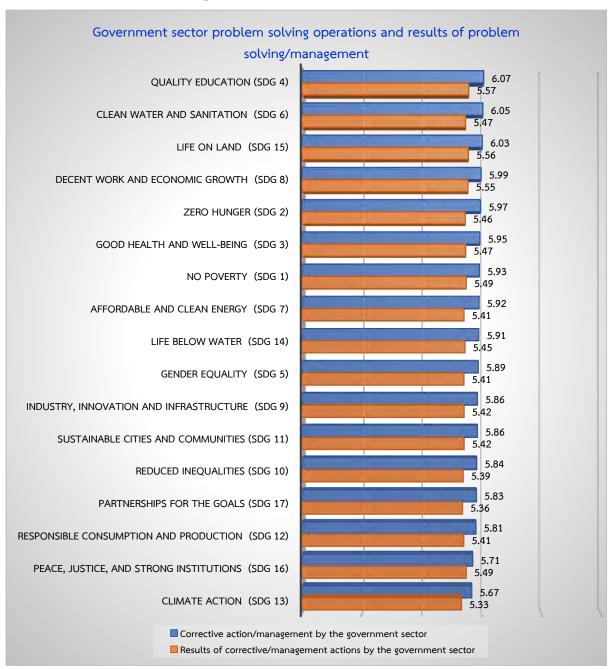
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.15, followed by dealing with climate change (SDG 13), the average is 9.11. Responsible Consumption and Production (SDG 12) average is 9.08 Quality Education (SDG 4) has an average of 9.04 and Decent Work and Economic Growth (SDG 8) has an average of 8.96.



For the government sector's implementation of problem solving, it is found that Quality Education (SDG 4) has the highest average. The average is 6.07, followed by Clean Water and Sanitation (SDG 6), the average is 6.05. Life on Lands (SDG 15) average value is 6.03. Decent Work and Economic Growth (SDG 8) average value is 5.99, and hunger elimination (SDG 2) and Good Health and Well-being (SDG 3) have the same average value of 5.97

As for the results of the government sector's corrective/management actions, it is found that Quality Education (SDG 4) has the highest average. The average is 5.57, followed by Life on Lands (SDG 15), the average is 5.56. Decent Work and Economic Growth (SDG 8) average is 5.55. Peace, Justice and Strong Institutions (SDG 16) and No Poverty (SDG 1) have the same average value of 5.49, and Good Health and Well-being (SDG 3) and Clean Water and Sanitation (SDG6) with an average of 5.47, details as shown in Table 4.5



**Table 4.5** Mean and standard deviation of urgent needs and actions to solve problems of the government sector (Chiang Mai Province)

the government se	Urgent need		Government operations				
	towards the		Government		Results of		
Development issues	development of		sector problem		corrective/management		
Development issues	quality of life		solving operations		actions		
	Average	Standard Deviation	Average	Standard Deviation	Average	Standard Deviation	
SDG 1 Poverty eradiation	9.15	0.950	5.93	1.572	5.49	1.485	
poverty alleviation	9.15	0.950	5.93	1.572	5.49	1.485	
SDG 2 Hunger elimination	8.84	0.812	5.97	1.511	5.46	1.537	
Developing smallholder farmers to promote a sustainable food system	8.83	0.875	5.95	1.506	5.42	1.529	
Having Good Health and nutrition *	8.85	0.901	6.00	1.620	5.49	1.621	
SDG 3 Have Good Health and Well-being	8.88	0.744	5.95	1.717	5.47	1.691	
Having good mental health (Mental Health)	8.84	0.865	6.00	1.702	5.51	1.685	
Road safety	8.93	0.868	5.92	1.848	5.43	1.795	
SDG 4 Quality Education	9.04	0.736	6.07	1.828	5.57	1.776	
Quality Education	9.06	0.853	6.02	1.855	5.53	1.813	
Having the skills necessary for a career	9.02	0.849	6.12	1.928	5.62	1.841	
SDG 5 Gender Equality	8.93	0.854	5.89	1.885	5.41	1.792	
Eliminating sexual violence in private and public spaces	8.93	0.854	5.89	1.885	5.41	1.792	
SDG 6 Clean Water and Sanitation	8.83	0.670	6.05	1.709	5.47	1.642	
Availability and access to clean water for drinking and use	8.83	0.810	6.18	1.785	5.49	1.656	
Solving water pollution problems *	8.83	0.825	5.91	1.847	5.45	1.786	
SDG 7 Affordable and Clean Energy	8.88	0.834	5.92	1.817	5.41	1.751	
Having and having universal access to clean energy	8.88	0.834	5.92	1.817	5.41	1.751	

	Urgen	t need	Government operations				
	towards the		Government		Results of		
	develop	ment of	sector p	oroblem	corrective/	management	
Development issues	quality	of life		perations		tions	
		Standard		Standard		Standard	
	Average	Deviation	Average	Deviation	Average	Deviation	
SDG 8 Decent Work and	8.96	0.851	5.99	1.826	5.55	1.774	
Economic Growth							
Employment and access to	8.96	0.851	5.99	1.826	5.55	1.774	
good work opportunities							
SDG 9 Industry, Innovation	8.89	0.829	5.86	1.893	5.42	1.778	
and Infrastructure							
Adapting to a green economy	8.89	0.829	5.86	1.893	5.42	1.778	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 10 Reduced	8.83	0.813	5.84	1.815	5.39	1.715	
Inequalities							
Participation and equal	8.83	0.813	5.84	1.815	5.39	1.715	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	8.89	0.829	5.86	1.893	5.42	1.778	
and Communities							
Adapting to a green economy	8.89	0.829	5.86	1.893	5.42	1.778	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 12 Responsible	9.08	0.877	5.81	1.840	5.41	1.710	
Consumption and							
Production							
Waste Management (Reduce	9.08	0.877	5.81	1.840	5.41	1.710	
Reuse Recycle)							
SDG 13 Climate Action	9.11	0.688	5.67	1.787	5.33	1.679	
Solving air pollution	9.17	0.949	5.68	1.948	5.27	1.848	
problems							
Raising awareness of the	9.05	0.769	5.67	1.863	5.39	1.688	
impacts of climate change							
or global warming. (Climate							
Change)							

	Urgen	t need	Government operations				
	towards the		Government		Results of		
Dovelopment issues	develop	ment of	sector p	oroblem	corrective/	management	
Development issues	quality	of life	solving o	perations	act	tions	
	Average	Standard	Average	Standard	Average	Standard	
	Average	Deviation	Average	Deviation	Average	Deviation	
SDG 14 Life Below Water	8.83	0.825	5.91	1.847	5.45	1.786	
Solving water pollution	8.83	0.825	5.91	1.847	5.45	1.786	
problems *							
SDG 15 Life on Land	8.95	0.635	6.03	1.743	5.56	1.663	
Coping with and reducing	8.87	0.827	6.22	1.847	5.65	1.770	
the impact of natural							
disasters							
Participatory management of	9.04	0.765	5.83	1.937	5.48	1.763	
forests and green areas							
SDG 16 Peace, Justice and	8.87	0.831	5.71	1.844	5.49	1.715	
Strong Institutions							
Managing quality public	8.87	0.831	5.71	1.844	5.49	1.715	
services and disseminating							
public information in a							
transparent manner							
SDG 17 Partnerships for	8.89	0.791	5.83	1.851	5.36	1.808	
the Goals							
Participation in proposing	8.89	0.791	5.83	1.851	5.36	1.808	
policies for a better quality							
of life							

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

# Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, the sample agreed that capital resources and local administrative powers should be distributed as much as possible, 61.00 percent, followed by appropriate local policies that should be developed and improved, 47.50 percent. No corruption and increases of the efficiency of information disclosure for transparent management, 44.25 percent, details as shown in Table 4.6.

**Table 4.6** Number and percentage of approaches to improving quality of life (Chiang Mai Province)

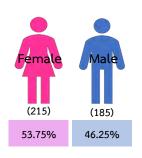
Guidelines for improving quality of life	Sample	Percentage
There is a decentralization of capital resources and authority in	244	61.00
local administration.		
Appropriate local policies are developed and improved.	190	47.50
There is no corruption and the efficiency of information	177	44.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	135	33.75
management is provided.		
There is a space to exchange local knowledge between	117	29.25
community members and apply it to development.		
Social and economic projects are created for comprehensive	116	29.00
local development.		
Cooperation is created to create effective development policies	116	29.00
in the community.		
Roles of participation in the community are promoted equally	102	25.50
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

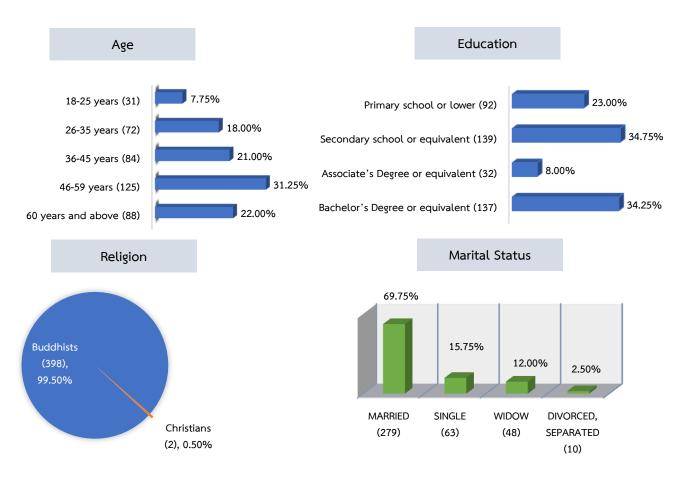
## 2.3 Mae Hong Son Province

## Part 1 Information about general characteristics

Survey data for Mae Hong Son Province from a total of 400 samples, the sample is 53.75 percent female and 46.25 percent male. Most are between 46-59 years old, 31.25 percent, followed by age 60 years and over, 22.00 percent, and between 36-45 years old, 21.00 percent. The highest number of graduates is at the secondary school level or equivalent, at 34.75 percent, followed by bachelor's degree or equivalent, 34.25 percent, and

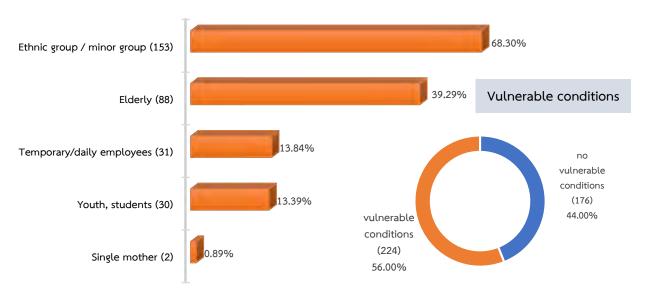


primary school level or lower 23.00 percent. Most of the sample is Buddhist (99.50%) and Christian (0.50%). Most have marital status of married, 69.75 percent, followed by single at 15.75 percent and widow at 12.00 percent. Most of their main occupation is the business owner/self-employment, 24.25 percent, followed by government officials/employees/state enterprise employees at 17.25 percent and farmers/fishermen at 16.00 percent. Most have the average monthly income of 10,001 – 20,000, 30.00, followed by not more than 10,000 baht, 27.25 percent, and 20,001-30,000 baht, 16.75 percent, respectively.



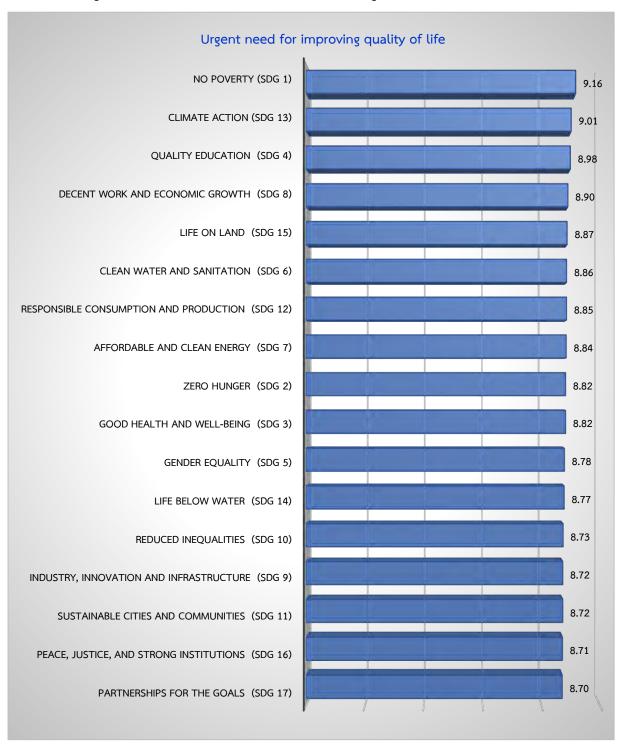


From this survey, it is found that 56.00 percent of the samples are in the most vulnerable conditions and 44.00 percent are not in vulnerable conditions. Among the most vulnerable samples are ethnic minorities, at 68.30 percent, followed by the elderly at 39.29 percent and temporary/daily employees at 13.84 percent, respectively.



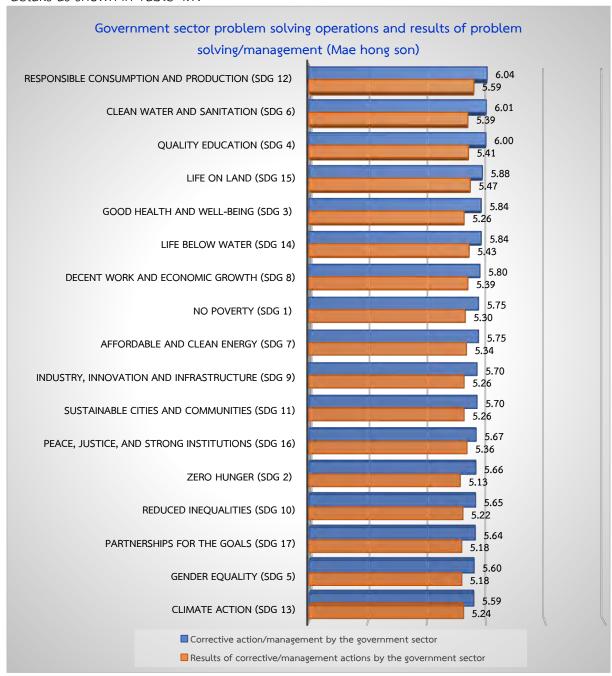
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.16, followed by dealing with climate change (SDG 13), the average is 9.01. Quality Education (SDG 4) average is 8.98. Decent Work and Economic Growth (SDG 8) average is 8.90 and Life on Lands (SDG 15) average is 8.87.



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 6.04, followed by Clean Water and Sanitation (SDG 6), the average is 6.01. Quality Education (SDG 4) average is 6.00. Life on Lands (SDG 15) average value is 5.88 and Life Below Water (SDG 14) and Good Health and Well-being (SDG 3) have the same average value of 5.84

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) has the highest average. The average is 5.59, followed by Life on Lands (SDG 15), the average is 5.47. Life Below Water (SDG 14) average is 5.43. Quality Education (SDG 4) average is 5.41 and Decent Work and Economic Growth (SDG 8) and Clean Water and Sanitation (SDG 6) have the same average value of 5.39, details as shown in Table 4.7.



**Table 4.7** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Mae Hong Son Province)

the government se			Government operations				
	Urgen					Results of	
		oment of					
Development issues	·	of life		perations	corrective/mactic	_	
	quatity	Standard	SOLVILLE O	Standard	Standard	Standard	
	Average	Deviation	Average	Deviation	Deviation	deviation	
SDG 1 Poverty eradiation	9.16	0.999	5.75	1.400	5.30	1.333	
poverty alleviation	9.16	0.999	5.75	1.400	5.30	1.333	
SDG 2 Hunger elimination	8.82	0.699	5.66	1.431	5.13	1.506	
Developing smallholder	8.90	0.813	5.60	1.416	5.08	1.479	
farmers to promote a							
sustainable food system							
Having Good Health and	8.74	0.800	5.71	1.572	5.19	1.620	
nutrition *							
SDG 3 Have Good Health	8.82	0.735	5.84	1.591	5.26	1.600	
and Well-being							
Having good mental health	8.74	0.829	5.62	1.629	5.18	1.625	
(Mental Health)							
Road safety	8.89	0.931	6.06	1.742	5.35	1.703	
SDG 4 Quality Education	8.98	0.794	6.00	1.648	5.41	1.652	
Quality Education	9.04	0.975	5.78	1.792	5.27	1.718	
Having the skills necessary	8.93	0.907	6.23	1.696	5.55	1.730	
for a career							
SDG 5 Gender Equality	8.78	0.857	5.60	1.734	5.18	1.686	
Eliminating sexual violence	8.78	0.857	5.60	1.734	5.18	1.686	
in private and public spaces							
SDG 6 Clean Water and	8.86	0.683	6.01	1.611	5.39	1.593	
Sanitation							
Availability and access to	8.94	0.902	6.18	1.830	5.35	1.749	
clean water for drinking and							
use							
Solving water pollution	8.77	0.833	5.84	1.678	5.43	1.610	
problems *							
SDG 7 Affordable and	8.84	0.917	5.75	1.760	5.34	1.711	
Clean Energy							
Having and having universal	8.84	0.917	5.75	1.760	5.34	1.711	
access to clean energy							

	Urgen	t need	Government operations				
	towards the		Government		Results of		
	develop	ment of	sector	oroblem	corrective/ma	anagement	
Development issues	quality	of life	solving o	perations	actio	ons	
	A	Standard	A	Standard	Standard	Standard	
	Average	Deviation	Average	Deviation	Deviation	deviation	
SDG 8 Decent Work and	8.90	0.938	5.80	1.798	5.39	1.748	
Economic Growth							
Employment and access to	8.90	0.938	5.80	1.798	5.39	1.748	
good work opportunities							
SDG 9 Industry, Innovation	8.72	0.912	5.70	1.764	5.26	1.756	
and Infrastructure							
Adapting to a green	8.72	0.912	5.70	1.764	5.26	1.756	
economy (Design of							
infrastructure, roads, water,							
electricity, buildings)*							
SDG 10 Reduced	8.73	0.841	5.65	1.640	5.22	1.642	
Inequalities							
Participation and equal	8.73	0.841	5.65	1.640	5.22	1.642	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	8.72	0.912	5.70	1.764	5.26	1.756	
and Communities							
Adapting to a green	8.72	0.912	5.70	1.764	5.26	1.756	
economy (Design of							
infrastructure, roads, water,							
electricity, buildings)*							
SDG 12 Responsible	8.85	0.908	6.04	1.734	5.59	1.634	
Consumption and							
Production							
Waste Management (Reduce	8.85	0.908	6.04	1.734	5.59	1.634	
Reuse Recycle)							
SDG 13 Climate Action	9.01	0.685	5.59	1.732	5.24	1.686	
Solving air pollution	9.13	0.896	5.49	1.843	5.14	1.790	
problems							
Raising awareness of the	8.89	0.817	5.69	1.947	5.34	1.816	
impacts of climate change or							
global warming. (Climate							
Change)							

	Urgen	nt need Government operations				
	towards th		Government		Result	s of
Development issues	develop	ment of	sector p	oroblem	corrective/ma	anagement
Development issues	quality	of life	solving o	perations	actio	ns
	Average	Standard	Average	Standard	Standard	Standard
	Average	Deviation	Average	Deviation	Deviation	deviation
SDG 14 Life Below Water	8.77	0.833	5.84	1.678	5.43	1.610
Solving water pollution	8.77	0.833	5.84	1.678	5.43	1.610
problems *						
SDG 15 Life on Land	8.87	0.664	5.88	1.622	5.47	1.596
Coping with and reducing	8.87	0.832	5.88	1.695	5.41	1.691
the impact of natural						
disasters						
Participatory management of	8.88	0.842	5.87	1.814	5.53	1.678
forests and green areas						
SDG 16 Peace, Justice and	8.71	0.832	5.67	1.987	5.36	1.816
Strong Institutions						
Managing quality public	8.71	0.832	5.67	1.987	5.36	1.816
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.70	0.834	5.64	1.760	5.18	1.749
the Goals						
Participation in proposing	8.70	0.834	5.64	1.760	5.18	1.749
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

# Part 3 Guidelines for improving quality of life

As for guidelines for improving the quality of life, most of the sample agreed that there should be a decentralization of capital resources and authority in local administration, 64.50 percent. Next, appropriate local policies should be developed and improved, 52.00 percent. No corruption and increases the efficiency of information disclosure for transparent administration at 46.25 percent, details as shown in Table 4.8.

**Table 4.8** Number and percentage of approaches to improving quality of life (Mae Hong Son Province)

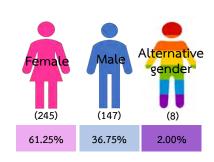
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	258	64.50
local administration.		
Appropriate local policies are developed and improved.	208	52.00
There is no corruption and the efficiency of information	185	46.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	127	31.75
management is provided.		
There is a space to exchange local knowledge between	124	31.00
community members and apply it to development.		
Social and economic projects are created for comprehensive	107	26.75
local development.		
Cooperation is created to create effective development policies	104	26.00
in the community.		
Roles of participation in the community are promoted equally	85	21.25
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

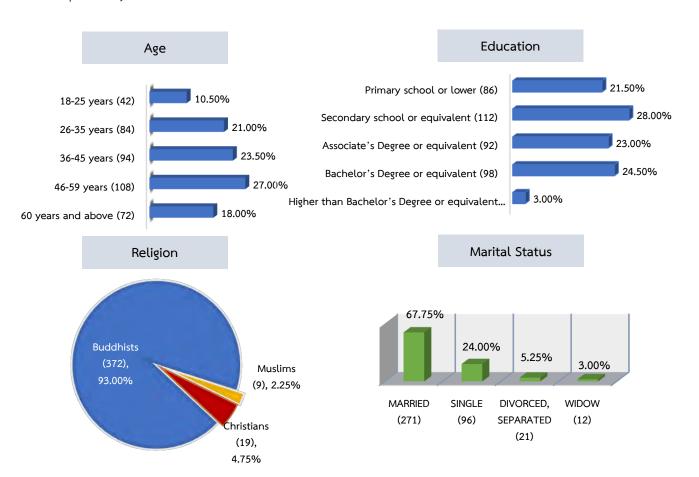
#### 2.4 Tak Province

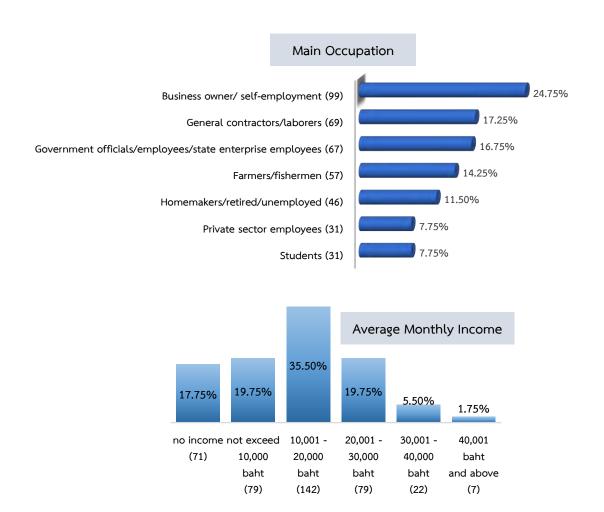
### Part 1 Information about general characteristics

Survey of Tak Province data from a total of 400 samples, the majority samples are female, 61.25 percent, followed by male 36.75 percent, and LGBTQ 2.00 percent. Most are between 46-59 years old, 27.00 percent, followed by age between 36-45 years, 23.50 percent, and between 26-35 years old, 21.00 percent. The highest number of graduates is at the secondary school level or equivalent, 28.00 percent. Next,

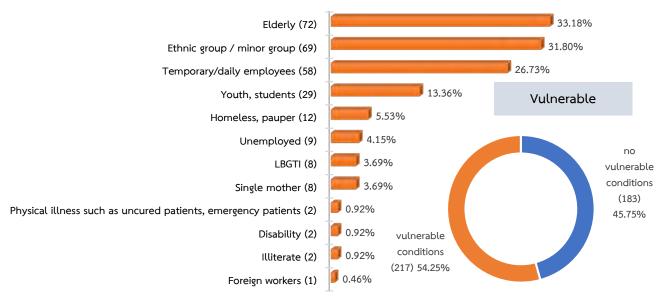


bachelor's degree or equivalent, 24.50 percent, and associate's degree or equivalent, 23.00 percent. Most of the sample are Buddhists, at 93.00 percent, followed by Christianity at 4.75 percent and Muslims at 2.25 percent. Most have the marital status of married, 67.75 percent, followed by single at 24.00 percent, and have divorced or separated status, 5.25 percent. Most of their main occupation is the business owner/self-employment, 24.75 percent, followed by general contractors/laborers at 17.25 percent, and 16.75 percent are government officials/employees/state enterprise employees. Most have an average monthly income between 10,001-20,000 baht, 35.50 percent, followed by not more than 10,000 baht and 20,001-30,000 baht in the same proportion, 19.75 percent, and no income, 17.75 percent, respectively.



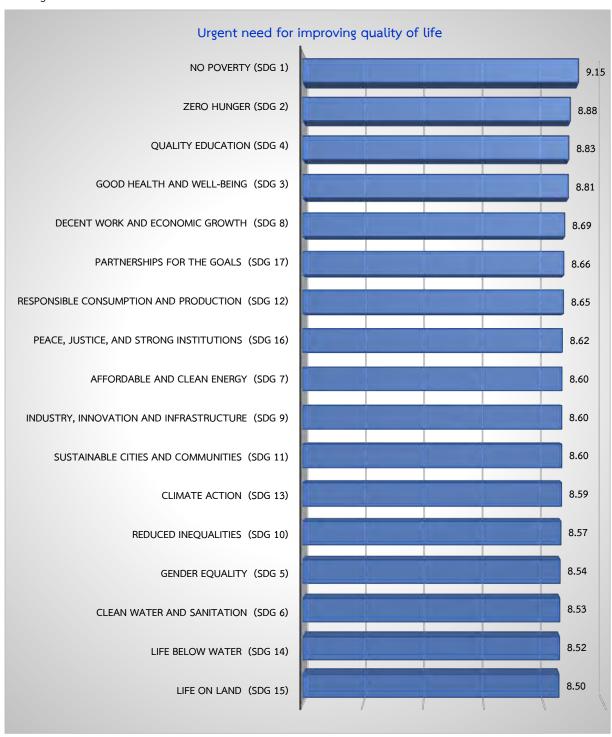


From this survey, it is found that 54.25 percent of the samples are in vulnerable conditions and 45.75 percent are not in vulnerable conditions. Among the sample with the most vulnerable conditions are the elderly, at 33.18 percent. Next are ethnic minorities, 31.80 percent, and temporary/daily employees, 26.73 percent, respectively.



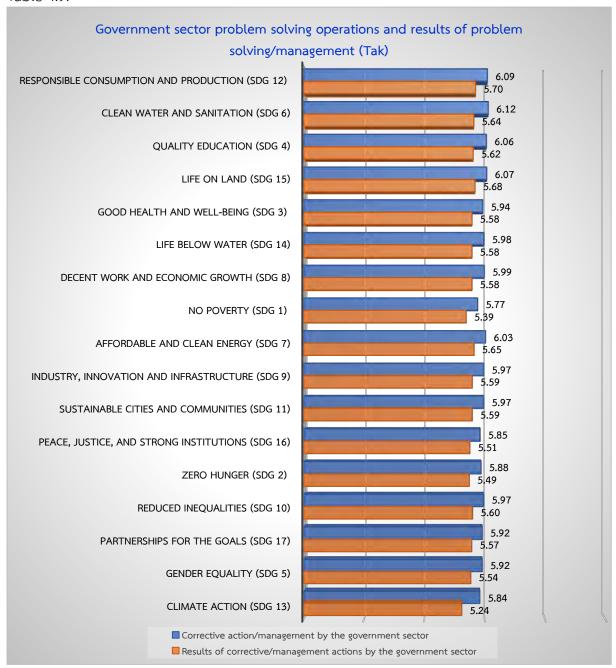
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.15, followed by hunger elimination (SDG 2), with an average of 8.88. Quality Education (SDG 4) average is 8.83. Good Health and Well-being (SDG 3) is with an average of 8.81 and Decent Work and Economic Growth (SDG 8), the average is 8.69.



For the government sector's implementation of problem solving, it is found that Clean Water and Sanitation (SDG 6) has the highest average. The average is 6.12, followed by Responsible Consumption and Production (SDG 12), the average is 6.09. Life on Lands (SDG 15) average value is 6.07. Quality Education (SDG 4) has an average value of 6.06 and clean energy that is accessible to everyone (SDG 7) has an average value of 6.03.

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.70, followed by Life on Lands (SDG 15), the average is 5.68. Clean energy that is accessible to everyone (SDG 7) average is 5.65. Clean Water and Sanitation (SDG 6) has an average value of 5.64 and Quality Education (SDG 4) has an average value of 5.62, details as shown in Table 4.9.



**Table 4.9** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Tak Province)

	Urgen	t need	Government operations				
	towar	ds the	Gover	nment	Resu	lts of	
Development issues	develop	ment of	sector p	oroblem	corrective/n	nanagement	
Development issues	quality	of life	solving o	perations	acti	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	9.15	1.306	5.77	2.102	5.39	2.055	
poverty alleviation	9.15	1.306	5.77	2.102	5.39	2.055	
SDG 2 Hunger elimination	8.88	1.133	5.88	1.659	5.49	1.596	
Developing smallholder	8.94	1.212	5.82	1.713	5.44	1.655	
farmers to promote a							
sustainable food system							
Having Good Health and	8.82	1.222	5.95	1.733	5.53	1.639	
nutrition *							
SDG 3 Have Good Health	8.81	1.037	5.94	1.652	5.58	1.566	
and Well-being							
Having good mental health	8.84	1.107	5.92	1.734	5.58	1.655	
(Mental Health)							
Road safety	8.78	1.169	5.96	1.740	5.58	1.602	
SDG 4 Quality Education	8.83	1.027	6.06	1.648	5.62	1.555	
Quality Education	8.85	1.156	5.95	1.690	5.58	1.589	
Having the skills necessary	8.81	1.137	6.17	1.773	5.66	1.650	
for a career							
SDG 5 Gender Equality	8.54	1.248	5.92	1.742	5.54	1.628	
Eliminating sexual violence	8.54	1.248	5.92	1.742	5.54	1.628	
in private and public spaces							
SDG 6 Clean Water and	8.53	1.118	6.12	1.625	5.64	1.453	
Sanitation							
Availability and access to	8.54	1.250	6.27	1.802	5.70	1.561	
clean water for drinking and							
use							
Solving water pollution	8.52	1.234	5.98	1.683	5.58	1.544	
problems *							
SDG 7 Affordable and	8.60	1.296	6.03	1.665	5.65	1.556	
Clean Energy							
Having and having universal	8.60	1.296	6.03	1.665	5.65	1.556	
access to clean energy							

	Urgen	t need	Government operations				
	_	ds the	Government		Results of		
		ment of	sector r	oroblem		nanagement	
Development issues	·	of life	_	perations		ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation	J	deviation	J	deviation	
SDG 8 Decent Work and	8.69	1.381	5.99	1.641	5.58	1.554	
Economic Growth							
Employment and access to	8.69	1.381	5.99	1.641	5.58	1.554	
good work opportunities							
SDG 9 Industry, Innovation	8.60	1.323	5.97	1.722	5.59	1.611	
and Infrastructure							
Adapting to a green economy	8.60	1.323	5.97	1.722	5.59	1.611	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 10 Reduced	8.57	1.204	5.97	1.717	5.60	1.621	
Inequalities							
Participation and equal	8.57	1.204	5.97	1.717	5.60	1.621	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	8.60	1.323	5.97	1.722	5.59	1.611	
and Communities							
Adapting to a green economy	8.60	1.323	5.97	1.722	5.59	1.611	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 12 Responsible	8.65	1.149	6.09	1.686	5.70	1.583	
Consumption and							
Production							
Waste Management (Reduce	8.65	1.149	6.09	1.686	5.70	1.583	
Reuse Recycle)							
SDG 13 Climate Action	8.59	1.127	5.84	1.682	5.47	1.574	
Solving air pollution	8.62	1.251	5.82	1.688	5.45	1.614	
problems							
Raising awareness of the	8.56	1.247	5.86	1.869	5.50	1.692	
impacts of climate change or							
global warming. (Climate							
Change)							

	Urgen	t need		Governm	ent operatior	ns
	towards the		Government		Results of	
Development issues	develop	ment of	sector p	oroblem	corrective/m	nanagement
Development issues	quality	of life	solving o	perations	acti	ons
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	8.52	1.234	5.98	1.683	5.58	1.544
Solving water pollution	8.52	1.234	5.98	1.683	5.58	1.544
problems *	0.50	4 4 4 4		1 (10	- 10	4 505
SDG 15 Life on Land	8.50	1.116	6.07	1.640	5.68	1.537
Coping with and reducing	8.47	1.244	6.21	1.737	5.76	1.609
the impact of natural						
disasters						
Participatory management of	8.54	1.234	5.93	1.726	5.60	1.610
forests and green areas						
SDG 16 Peace, Justice and	8.62	1.249	5.85	1.821	5.51	1.647
Strong Institutions						
Managing quality public	8.62	1.249	5.85	1.821	5.51	1.647
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.66	1.369	5.92	1.690	5.57	1.627
the Goals						
Participation in proposing	8.66	1.369	5.92	1.690	5.57	1.627
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

# Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, the sample agreed that there should be a distribution of capital resources and authority in local administration, with the highest number being 65.75 percent. Next, appropriate local policies should be developed and improved, 53.50 percent, and no corruption and increases the efficiency of information disclosure for transparent administration, 53.25 percent, details as shown in Table 4.10

**Table 4.10** Number and percentage of approaches to improving quality of life (Tak Province)

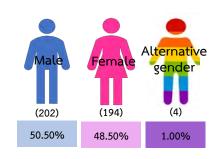
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	263	65.75
local administration.		
Appropriate local policies are developed and improved.	214	53.50
There is no corruption and the efficiency of information	213	53.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	178	44.50
management is provided.		
There is a space to exchange local knowledge between	125	31.25
community members and apply it to development.		
Social and economic projects are created for comprehensive	83	20.75
local development.		
Cooperation is created to create effective development policies	78	19.50
in the community.		
Roles of participation in the community are promoted equally	45	11.25
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

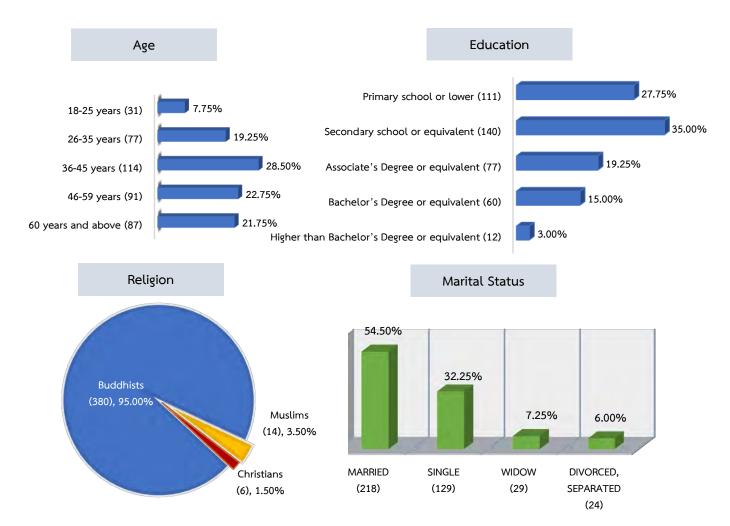
### 2.5 Bangkok Province

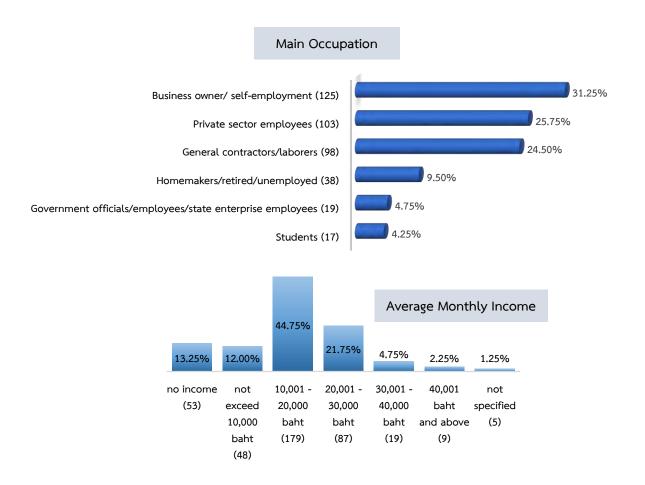
### Part 1 Information about general characteristics

Data survey of Bangkok province From a total of 400 samples. The majority of the samples are males, 50.50 percent, followed by female at 48.50 percent and LGBTQ at 1.00 percent. Most are between 36-45 years old, 28.50 percent, followed by age between 46-59 years, 22.75 percent, and aged 60 years and over, 21.75 percent. Highest education completed at the secondary school level or equivalent, 35.00%. Next,

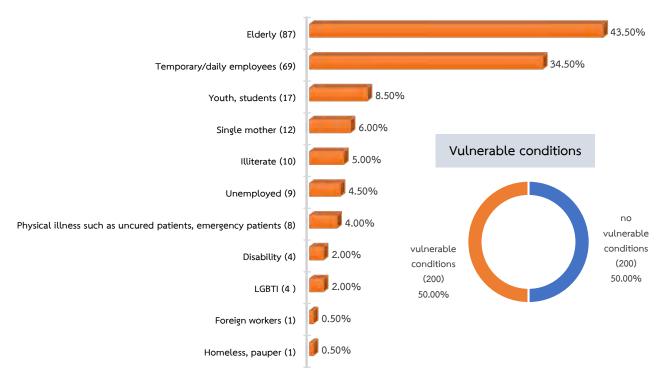


primary school level or lower, 27.75 percent, and associate's degree or equivalent, 19.25 percent. Most of the sample are Buddhists, 95.00 percent, followed by Muslims at 3.50 percent and Christianity at 1.50 percent. Most have the marital status of married, 54.50 percent, followed by single at 32.25 percent and widow at 7.25 percent. Most of their main occupation is the business owner/self-employment, 31.25 percent, followed by private sector employees, 25.75 percent, and general contractors/laborers 24.50 percent. Most have the average monthly income between 10,001-20,000 baht, 44.75 percent, followed by 20,001-30,000 baht, 21.75 percent, and no income, 13.25 percent, respectively.



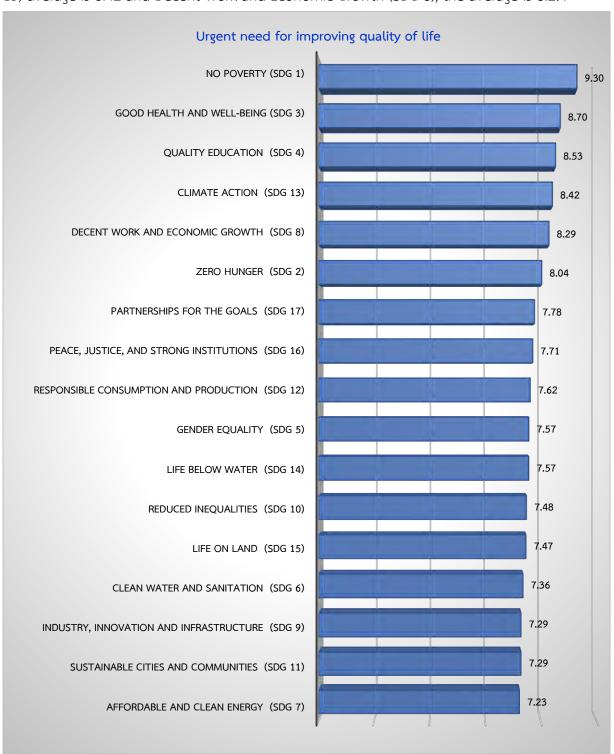


From this survey, it is found that the samples are in fragile and non-vulnerable conditions in equal proportions, 50.00 percent. Among the sample with the most vulnerable conditions are the elderly, at 43.50 percent, followed by temporary/daily employees, 34.50 percent, and youths, students, 8.50 percent, respectively.



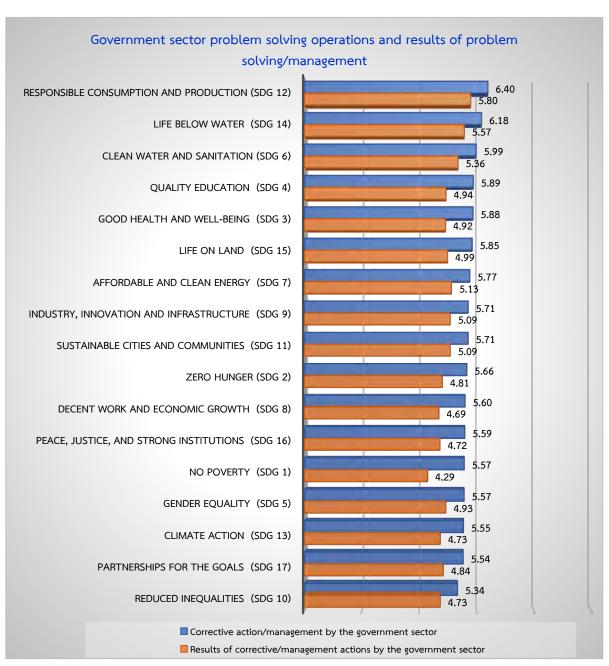
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.30, followed by health and Well-being (SDG 3), with an average of 8.70. Quality Education (SDG 4) average is 8.53, dealing with climate change (SDG 13) average is 8.42 and Decent Work and Economic Growth (SDG 8), the average is 8.29.



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 6.40, followed by Life Below Water (SDG 14), the average is 6.18. Clean Water and Sanitation (SDG 6) average is 5.99. Quality Education (SDG 4) average is 5.89, and have Good Health and Well-being (SDG 3) with an average of 5.88.

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.80, followed by Life Below Water (SDG 14), the average is 5.57. Clean Water and Sanitation (SDG 6) average is 5.36, Clean energy that is accessible to everyone (SDG 7) average is 5.13, and Infrastructure, innovation, and industry (SDG 9) and Sustainable Cities and Communities (SDG 11) have the same average value of 5.09, details as shown in Table 4.11.



**Table 4.11** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Bangkok Province)

the government s		t need	Government operations				
	towar	ds the	Government		Resu	lts of	
	develop	ment of	sector p	oroblem	corrective/n	nanagement	
Development issues	quality	of life	solving o	perations	acti	ions	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	9.30	1.058	5.57	1.723	4.29	1.437	
poverty alleviation	9.30	1.058	5.57	1.723	4.29	1.437	
SDG 2 Hunger elimination	8.04	1.520	5.66	1.465	4.81	1.391	
Developing smallholder	7.82	1.935	5.62	1.596	4.79	1.574	
farmers to promote a							
sustainable food system							
Having Good Health and	8.25	1.505	5.70	1.594	4.83	1.481	
nutrition *							
SDG 3 Have Good Health	8.70	1.182	5.88	1.543	4.92	1.458	
and Well-being							
Having good mental health	8.51	1.432	5.67	1.576	4.77	1.469	
(Mental Health)							
Road safety	8.89	1.372	6.10	1.812	5.08	1.739	
SDG 4 Quality Education	8.53	1.256	5.89	1.506	4.94	1.369	
Quality Education	8.57	1.504	5.94	1.668	5.03	1.538	
Having the skills necessary	8.50	1.372	5.84	1.602	4.84	1.496	
for a career							
SDG 5 Gender Equality	7.57	1.785	5.57	1.648	4.93	1.601	
Eliminating sexual violence	7.57	1.785	5.57	1.648	4.93	1.601	
in private and public spaces							
SDG 6 Clean Water and	7.36	2.073	5.99	1.718	5.36	1.861	
Sanitation							
Availability and access to	7.16	2.276	5.82	1.859	5.14	1.996	
clean water for drinking and							
use							
Solving water pollution	7.57	2.254	6.18	1.964	5.57	2.076	
problems *							
SDG 7 Affordable and	7.23	2.197	5.77	1.921	5.13	1.986	
Clean Energy							
Having and having universal	7.23	2.197	5.77	1.921	5.13	1.986	
access to clean energy							

	Urgen	t need	Government operations			
	Urgent need towards the		Government			
	development of		sector problem		Results of corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
	Average	deviation	Average	deviation	Average	deviation
SDG 8 Decent Work and	8.29	1.488	5.60	1.610	4.69	1.451
Economic Growth	0.27	1.400	3.00	1.010	4.07	1,431
	0.20	1 400	5.60	1.610	4.69	1 /1 / 1
Employment and access to	8.29	1.488	5.60	1.010	4.09	1.451
good work opportunities	7.00	4.700	F 74	4 (00	F 00	4.607
SDG 9 Industry, Innovation	7.29	1.780	5.71	1.639	5.09	1.637
and Infrastructure						
Adapting to a green economy	7.29	1.780	5.71	1.639	5.09	1.637
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 10 Reduced	7.48	1.847	5.34	1.557	4.73	1.566
Inequalities						
Participation and equal	7.48	1.847	5.34	1.557	4.73	1.566
access to opportunities for						
women and gender diverse						
people						
SDG 11 Sustainable Cities	7.29	1.780	5.71	1.639	5.09	1.637
and Communities						
Adapting to a green economy	7.29	1.780	5.71	1.639	5.09	1.637
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 12 Responsible	7.62	2.246	6.40	1.977	5.80	2.140
Consumption and						
Production						
Waste Management (Reduce	7.62	2.246	6.40	1.977	5.80	2.140
Reuse Recycle)						
SDG 13 Climate Action	8.42	1.240	5.55	1.518	4.73	1.368
Solving air pollution	9.02	1.546	5.39	1.751	4.41	1.611
problems	7.02	1.540	5.59	1.131	7.71	1.011
Raising awareness of the	7.83	1.517	5.71	1.667	5.07	1.619
impacts of climate change or	1.03	1.317	5.71	1.007	5.07	1.019
global warming. (Climate						
Change)						

	Urgen	t need	Government operations			
	towards the		Government		Results of	
Davelanment issues	development of		sector problem		corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	7.57	2.254	6.18	1.964	5.57	2.076
Solving water pollution problems *	7.57	2.254	6.18	1.964	5.57	2.076
SDG 15 Life on Land	7.47	1.557	5.85	1.446	4.99	1.449
Coping with and reducing	7.60	1.769	6.18	1.637	5.05	1.575
the impact of natural						
disasters						
Participatory management of	7.34	1.654	5.52	1.627	4.94	1.628
forests and green areas						
SDG 16 Peace, Justice and	7.71	1.616	5.59	1.527	4.72	1.522
Strong Institutions						
Managing quality public	7.71	1.616	5.59	1.527	4.72	1.522
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	7.78	1.577	5.54	1.552	4.84	1.564
the Goals						
Participation in proposing	7.78	1.577	5.54	1.552	4.84	1.564
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

# Part 3 Guidelines for improving quality of life

As for guidelines for improving the quality of life, the examples suggest that policies should be developed and improved. The most appropriate local products are 49.75 percent. Second, social and economic projects should be created for comprehensive local development. 43.00 percent, There is no corruption and increases efficiency of information disclosure for transparent management, 41.00 percent, details as shown in Table 4.12

**Table 4.12** Number and percentage of approaches to improving quality of life (Bangkok Province)

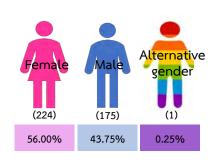
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	199	49.75
local administration.		
Appropriate local policies are developed and improved.	172	43.00
There is no corruption and the efficiency of information	164	41.00
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	144	36.00
management is provided.		
There is a space to exchange local knowledge between	140	35.00
community members and apply it to development.		
Social and economic projects are created for comprehensive	136	34.00
local development.		
Cooperation is created to create effective development policies	126	31.50
in the community.		
Roles of participation in the community are promoted equally	119	29.75
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

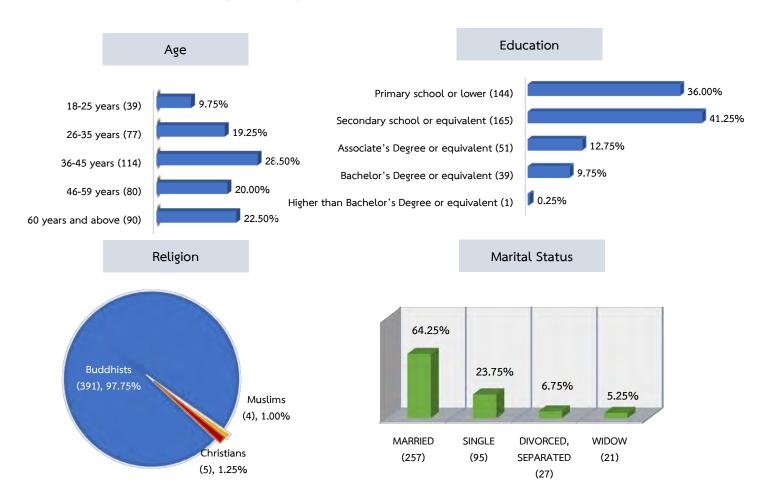
#### 2.6 Phetchaburi Province

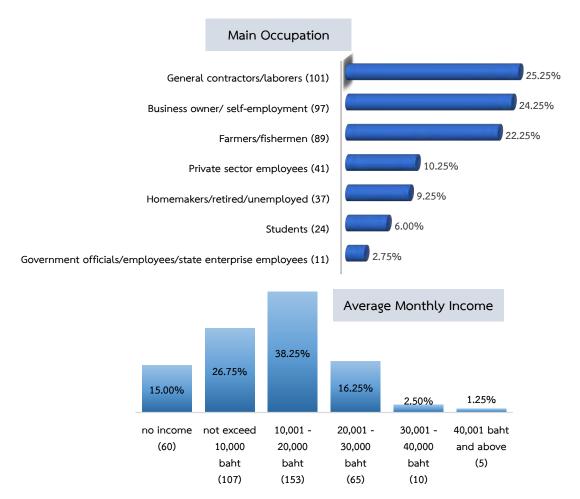
### Part 1 Information about general characteristics

Survey data of Phetchaburi Province from a total of 400 samples, the majority of the sample is female, 56.00 percent, followed by males at 43.75 percent and LGBTQ at 0.25 percent. Most are between 36-45 years old, 28.50 percent, followed by those aged 60 years and over, 22.50 percent, and those aged between 46-59 years, 20.00 percent. The highest number of graduates is at the

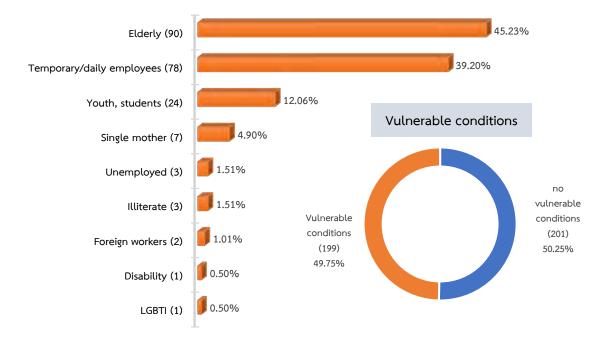


secondary school level or equivalent, at 41.25 percent. Next, primary school level or lower, 36.00 percent, and associate's degree or equivalent, 12.75 percent. Most of the sample are Buddhists, at 97.75 percent, followed by Christian at 1.25 percent and Muslims at 1.00 percent. Marital status of married is the highest at 64.25, followed by single at 23.75 percent and divorced and separated at 6.75 percent. Their main occupation is general contractor/laborer, the most at 25.25 percent. Next is the owner of a private business/self-employed, 24.25 percent, and are farmers/fishermen, 22.25 percent. Most have an average monthly income of 10,001-20,000 baht, 38.25 percent, followed by not more than 10,000 baht, 26.75 percent, and 20,001-30,000 baht, 16.25 percent, respectively.



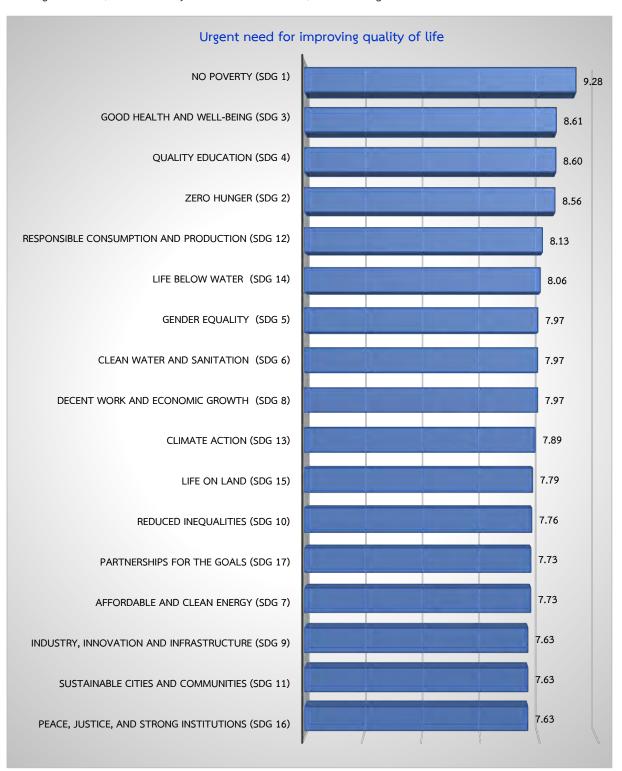


From this survey, it is found that 50.25 percent of the samples are not in vulnerable conditions and 49.75 percent are in vulnerable conditions. Among the samples with vulnerable conditions, they are the elderly, the most at 45.23 percent, followed by temporary/daily employees, 39.20 percent and are youth, students, 12.06 percent, respectively.



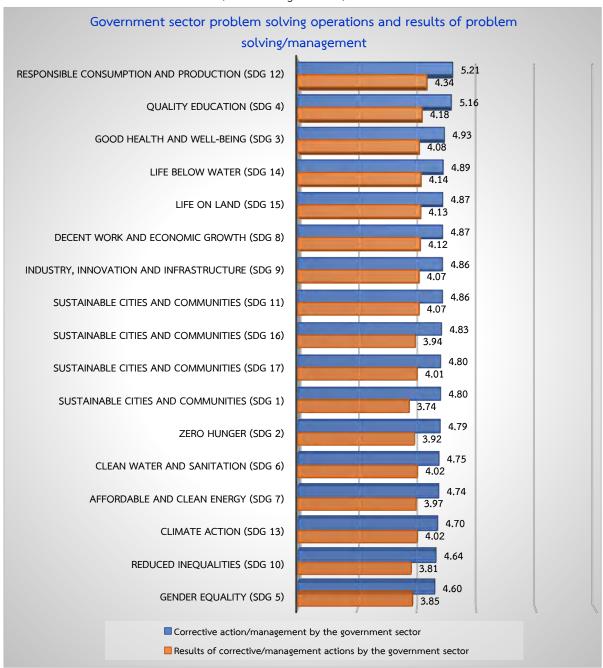
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.28, followed by health and Well-being (SDG 3), with an average of 8.61, and Quality Education (SDG 4), the average is 8.60.



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.21. Next is Quality Education (SDG 4), the average is 5.16. Health and Well-being (SDG 3) average is 4.93. Life Below Water (SDG 14) average value is 4.89 and Life on Lands (SDG 15) average value is 4.87.

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average value. The average is 4.34, followed by Quality Education (SDG 4), the average is 4.18. Life Below Water (SDG 14) average is 4.14. Life on Lands (SDG 15) average value is 4.13, and Decent Work and Economic Growth (SDG 8), the average is 4.12, details as shown in Table 4.13.



**Table 4.13** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Petchaburi Province)

the government so		t need	Government operations				
	towards the		Government		Results of		
	development of		sector problem		corrective/management		
Development issues	quality	of life	solving o	perations	actions		
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	9.28	1.389	4.80	1.706	3.74	1.498	
poverty alleviation	9.28	1.389	4.80	1.706	3.74	1.498	
SDG 2 Hunger elimination	8.56	1.342	4.79	1.335	3.92	1.194	
Developing smallholder	8.54	1.570	4.72	1.540	3.84	1.392	
farmers to promote a							
sustainable food system							
Having Good Health and	8.59	1.445	4.86	1.486	4.01	1.292	
nutrition *							
SDG 3 Have Good Health	8.61	1.291	4.93	1.431	4.08	1.239	
and Well-being							
Having good mental health	8.51	1.453	4.86	1.475	4.00	1.287	
(Mental Health)							
Road safety	8.70	1.478	5.02	1.661	4.17	1.470	
SDG 4 Quality Education	8.60	1.418	5.16	1.394	4.18	1.183	
Quality Education	8.75	1.511	5.15	1.583	4.28	1.367	
Having the skills necessary	8.44	1.588	5.18	1.543	4.08	1.270	
for a career							
SDG 5 Gender Equality	7.97	1.716	4.60	1.491	3.85	1.269	
Eliminating sexual violence	7.97	1.716	4.60	1.491	3.85	1.269	
in private and public spaces							
SDG 6 Clean Water and	7.97	1.449	4.75	1.299	4.02	1.212	
Sanitation							
Availability and access to	7.88	1.637	4.60	1.543	3.89	1.348	
clean water for drinking and							
use							
Solving water pollution	8.06	1.745	4.89	1.507	4.14	1.465	
problems *							
SDG 7 Affordable and	7.73	1.629	4.74	1.497	3.97	1.296	
Clean Energy							
Having and having universal	7.73	1.629	4.74	1.497	3.97	1.296	
access to clean energy							

	Urgen	t need	Government operations			
	towards the		Government		Results of	
	development of		sector problem		corrective/management	
Development issues	quality	of life	solving o	perations	actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 8 Decent Work and	7.97	1.486	4.87	1.553	4.12	1.319
Economic Growth						
Employment and access to	7.97	1.486	4.87	1.553	4.12	1.319
good work opportunities						
SDG 9 Industry, Innovation	7.63	1.571	4.86	1.534	4.07	1.353
and Infrastructure						
Adapting to a green economy	7.63	1.571	4.86	1.534	4.07	1.353
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 10 Reduced	7.76	1.655	4.64	1.502	3.81	1.289
Inequalities						
Participation and equal	7.76	1.655	4.64	1.502	3.81	1.289
access to opportunities for						
women and gender diverse						
people						
SDG 11 Sustainable Cities	7.63	1.571	4.86	1.534	4.07	1.353
and Communities						
Adapting to a green economy	7.63	1.571	4.86	1.534	4.07	1.353
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 12 Responsible	8.13	1.677	5.21	1.627	4.34	1.587
Consumption and						
Production						
Waste Management (Reduce	8.13	1.677	5.21	1.627	4.34	1.587
Reuse Recycle)						
SDG 13 Climate Action	7.89	1.416	4.70	1.437	4.02	1.239
Solving air pollution	8.06	1.731	4.52	1.575	3.86	1.348
problems						
Raising awareness of the	7.72	1.577	4.87	1.626	4.16	1.409
impacts of climate change or						
global warming. (Climate						
Change)						

	Urgen	t need	Government operations			
	towards the		Government		Results of	
Davalanment issues	development of		sector problem		corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	8.06	1.745	4.89	1.507	4.14	1.465
Solving water pollution	8.06	1.745	4.89	1.507	4.14	1.465
problems *						
SDG 15 Life on Land	7.79	1.389	4.87	1.358	4.13	1.235
Coping with and reducing	7.99	1.695	4.89	1.500	4.13	1.415
the impact of natural						
disasters						
Participatory management of	7.60	1.515	4.86	1.524	4.13	1.356
forests and green areas						
SDG 16 Peace, Justice and	7.63	1.544	4.83	1.344	3.94	1.276
Strong Institutions						
Managing quality public	7.63	1.544	4.83	1.344	3.94	1.276
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for the	7.73	1.580	4.80	1.463	4.01	1.310
Goals						
Participation in proposing	7.73	1.580	4.80	1.463	4.01	1.310
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

# Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agreed with no corruption and increased efficiency of information disclosure for transparent administration, 50.25 percent. Next, there should be knowledge about environmental conservation and Waste management, 48.25 percent. There should be no corruption and there should be a space to exchange local knowledge between community members and apply it to development, 40.50%, details as shown in Table 4.14.

**Table 4.14** Number and percentage of approaches to improving quality of life (Petchaburi Province)

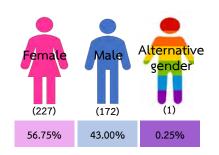
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	201	50.25
local administration.		
Appropriate local policies are developed and improved.	193	48.25
There is no corruption and the efficiency of information	162	40.50
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	157	39.25
management is provided.		
There is a space to exchange local knowledge between	153	38.25
community members and apply it to development.		
Social and economic projects are created for comprehensive	125	31.25
local development.		
Cooperation is created to create effective development policies	111	27.75
in the community.		
Roles of participation in the community are promoted equally	96	24.00
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

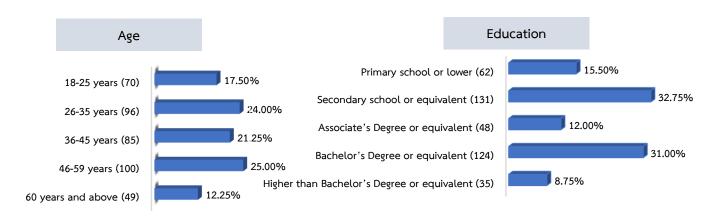
#### 2.7 Udon Thani Province

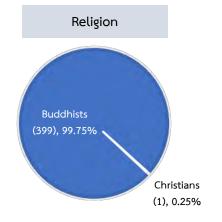
### Part 1 Information about general characteristics

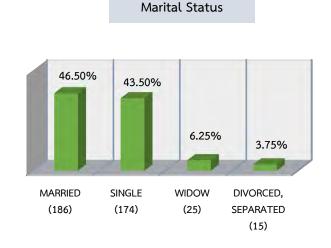
Data survey of Udon Thani province From a total of 400 samples, the majority of the sample is female, 56.75 percent, followed by males at 43.00 percent and LGBTQ at 0.25 percent. Most are between 46-59 years old, 25.00 percent, followed by ages between 26-35 years, 24.00 percent, and ages between 36-45 years, 21.25 percent. The highest number of graduates is at the secondary school

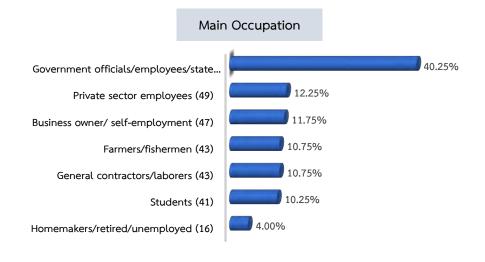


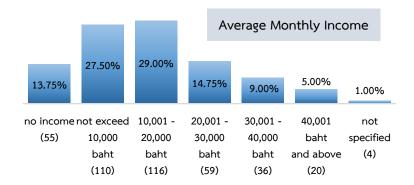
level or equivalent, 32.75 percent. Next, bachelor's degree or equivalent, 31.00 percent. and primary school level or lower 15.50 percent. Most of the sample is Buddhist (99.75%) and Christian (0.25%). Marital status of married is the highest at 46.50 percent, followed by single at 43.50 percent and widow at 6.25 percent. Their main occupation is as a civil servant/employee/state enterprise employee, the most at 40.25 percent. Next are private sector employees, 12.25 percent, and being the business owner/self-employment, 11.75 percent. Most have an average monthly income 10,001-20,000 baht, 29.00 percent, followed by not more than 10,000 baht, 27.50 percent, and 20,001-30,000 baht, 14.75 percent, respectively.



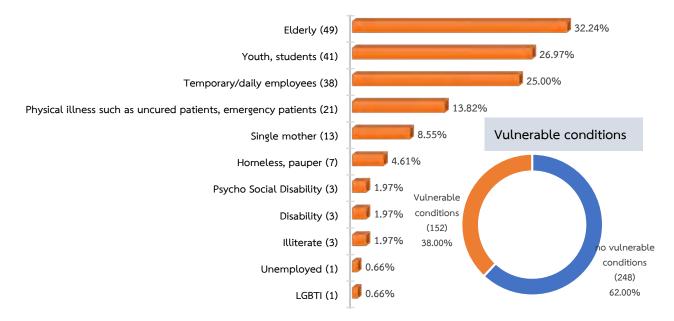






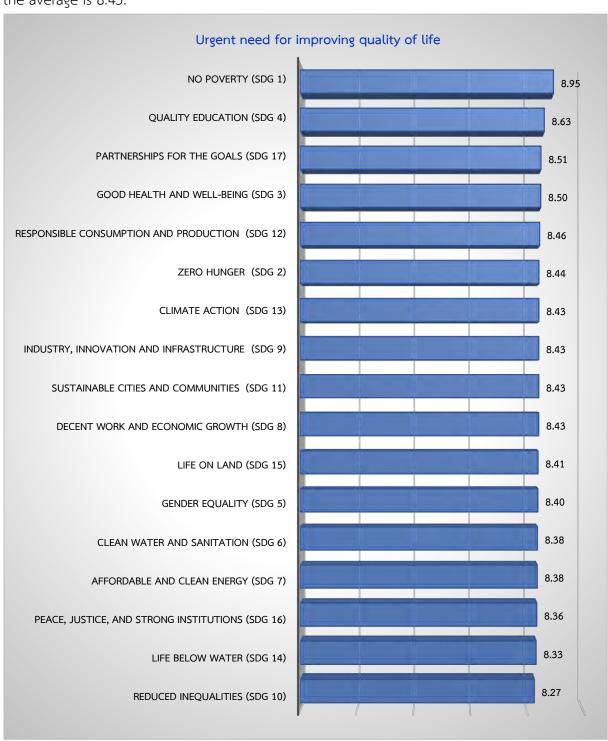


From this survey, it is found that 62.00% of the samples are not in vulnerable conditions and 38.00% are in vulnerable conditions. Among the samples with vulnerable conditions, most are the elderly, 32.24 percent, followed by youth, students at 26.97 percent, and are temporary/daily employees, 25.00 percent, respectively.



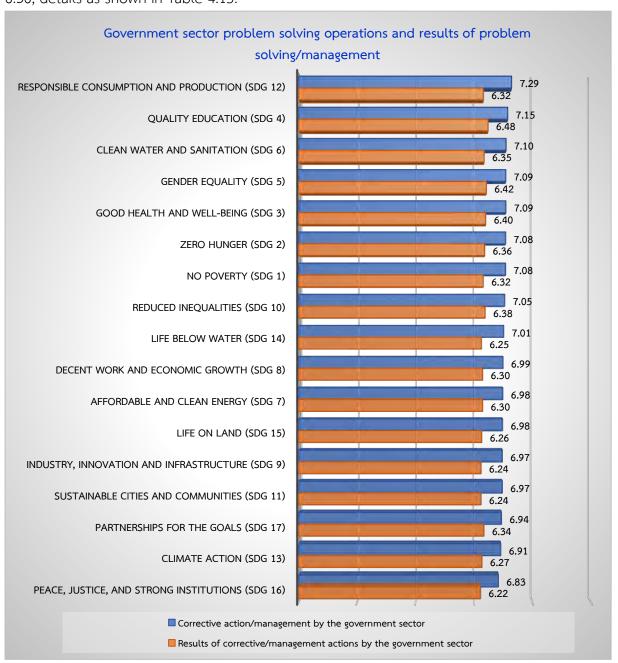
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.95, followed by Quality Education (SDG 4), the average is 8.63. Partnerships for the Goals (SDG 17) average is 8.51. Good Health and Wellbeing (SDG 3) has an average of 8.50, and Responsible Consumption and Production (SDG 12), the average is 8.45.



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) has the highest average. The average is 7.29. Next is Quality Education (SDG 4), the average is 7.15. Clean Water and Sanitation (SDG 6) average is 7.10. Gender Equality (SDG 5) and Good Health and Well-being (SDG 3) have the same average value of 7.09, and hunger elimination (SDG 2) and poverty elimination (SDG 1) have the same average value of 7.08.

As for the results of the government sector's corrective/management actions, it is found that Quality Education (SDG 4) had the highest average. The average is 6.48. Next is Gender Equality (SDG 5), the average is 6.42. Health and Well-being (SDG 3) average is 6.40. Reduce inequality (SDG 10) average is 6.38, and hunger elimination (SDG 2) with an average value of 6.36, details as shown in Table 4.15.



**Table 4.15** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Udon Thani Province)

the government s		t need	Government operations				
	•	towards the		Government		lts of	
	develop	ment of	sector p	sector problem corrective/		management	
Development issues	quality	of life	solving o	perations	acti	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.95	1.693	7.08	2.296	6.32	2.307	
poverty alleviation	8.95	1.693	7.08	2.296	6.32	2.307	
SDG 2 Hunger elimination	8.44	1.617	7.08	2.085	6.36	2.082	
Developing smallholder	8.46	1.796	7.09	2.203	6.38	2.204	
farmers to promote a							
sustainable food system							
Having Good Health and	8.41	1.770	7.10	2.183	6.39	2.145	
nutrition *							
SDG 3 Have Good Health	8.50	1.573	7.09	2.099	6.40	2.113	
and Well-being							
Having good mental health	8.48	1.740	7.07	2.158	6.40	2.177	
(Mental Health)							
Road safety	8.55	1.710	7.14	2.229	6.41	2.217	
SDG 4 Quality Education	8.63	1.677	7.15	2.073	6.48	2.120	
Quality Education	8.72	1.763	7.12	2.187	6.47	2.231	
Having the skills necessary	8.56	1.796	7.18	2.172	6.49	2.214	
for a career							
SDG 5 Gender Equality	8.40	1.786	7.09	2.264	6.42	2.153	
Eliminating sexual violence	8.40	1.786	7.09	2.264	6.42	2.153	
in private and public spaces							
SDG 6 Clean Water and	8.38	1.628	7.10	2.088	6.35	2.081	
Sanitation							
Availability and access to	8.46	1.758	7.21	2.186	6.47	2.209	
clean water for drinking and							
use							
Solving water pollution	8.33	1.877	7.01	2.252	6.25	2.200	
problems *							
SDG 7 Affordable and	8.38	1.799	6.98	2.206	6.30	2.182	
Clean Energy							
Having and having universal	8.38	1.799	6.98	2.206	6.30	2.182	
access to clean energy							

	Urgen	t need	Government operations				
	_	ds the	Government		Results of		
		ment of	sector r	oroblem		nanagement	
Development issues	·	of life		perations		ions	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation	J	deviation	
SDG 8 Decent Work and	8.43	1.788	6.99	2.244	6.30	2.211	
Economic Growth							
Employment and access to	8.43	1.788	6.99	2.244	6.30	2.211	
good work opportunities							
SDG 9 Industry, Innovation	8.43	1.793	6.97	2.238	6.24	2.201	
and Infrastructure							
Adapting to a green economy	8.43	1.793	6.97	2.238	6.24	2.201	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*	0.07	1.016	7.05	0.400		0.166	
SDG 10 Reduced	8.27	1.846	7.05	2.193	6.38	2.166	
Inequalities	0.07	1.016	7.05	0.400	4.00	0.466	
Participation and equal	8.27	1.846	7.05	2.193	6.38	2.166	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	8.43	1.793	6.97	2.238	6.24	2.201	
and Communities							
Adapting to a green economy	8.43	1.793	6.97	2.238	6.24	2.201	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 12 Responsible	8.46	1.908	7.29	2.342	6.32	2.276	
Consumption and							
Production							
Waste Management (Reduce	8.46	1.908	7.29	2.342	6.32	2.276	
Reuse Recycle)							
SDG 13 Climate Action	8.43	1.744	6.91	2.200	6.27	2.105	
Solving air pollution	8.48	1.819	6.85	2.288	6.23	2.181	
problems							
Raising awareness of the	8.41	1.872	6.98	2.298	6.31	2.222	
impacts of climate change or							
global warming. (Climate							
Change)							

	Urgen	t need		Governm	ent operation	ıs
	towards the		Government		Results of	
Davelanment issues	develop	ment of	sector p	oroblem	corrective/m	nanagement
Development issues	quality	of life	solving o	perations	acti	ons
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	8.33	1.877	7.01	2.252	6.25	2.200
Solving water pollution problems *	8.33	1.877	7.01	2.252	6.25	2.200
SDG 15 Life on Land	8.41	1.667	6.98	2.161	6.26	2.138
Coping with and reducing	8.37	1.791	7.01	2.186	6.31	2.183
the impact of natural						
disasters						
Participatory management of	8.45	1.861	6.99	2.300	6.27	2.273
forests and green areas						
SDG 16 Peace, Justice and	8.36	1.895	6.83	2.373	6.22	2.349
Strong Institutions						
Managing quality public	8.36	1.895	6.83	2.373	6.22	2.349
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.51	1.701	6.94	2.340	6.34	2.303
the Goals						
Participation in proposing	8.51	1.701	6.94	2.340	6.34	2.303
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agreed that appropriate local policies should be developed and improved, 56.75 percent, followed by no corruption and increased efficiency of information disclosure for transparent administration, 46.00 percent, and there should be social and economic projects for thorough local development, 38.25 percent, details as shown in Table 4.16.

**Table 4.16** Number and percentage of approaches to improving quality of life (Udon Thani Province)

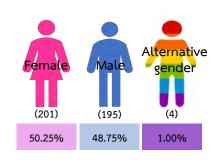
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	227	56.75
local administration.		
Appropriate local policies are developed and improved.	184	46.00
There is no corruption and the efficiency of information	153	38.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	143	35.75
management is provided.		
There is a space to exchange local knowledge between	137	34.25
community members and apply it to development.		
Social and economic projects are created for comprehensive	129	32.25
local development.		
Cooperation is created to create effective development policies	125	31.25
in the community.		
Roles of participation in the community are promoted equally	99	24.75
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

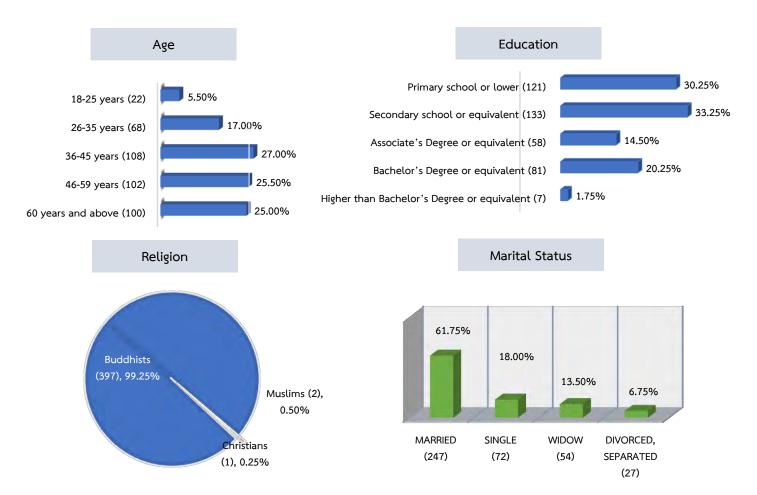
#### 2.8 Nakhon Ratchasima Province

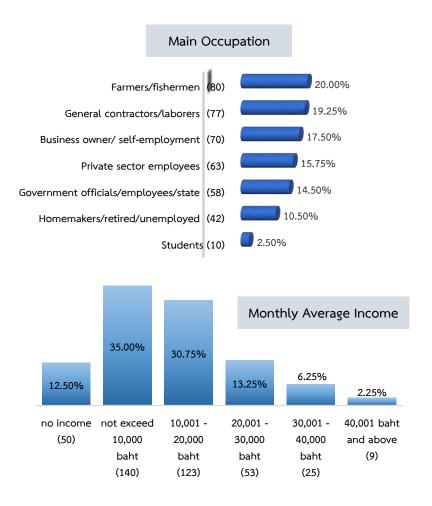
### Part 1 Information about general characteristics

Data survey of Nakhon Ratchasima province From a total of 400 samples, the majority are female, 50.25 percent, followed by males at 48.75 percent and LGBTQ at 1.00 percent. Most are between 36-45 years old, 27.00 percent, followed by 46-59 years old, 25.50 percent, and aged 60 years and over, 25.00 percent. The highest level of education is completed at the secondary school level or equivalent, at 33.25 percent,

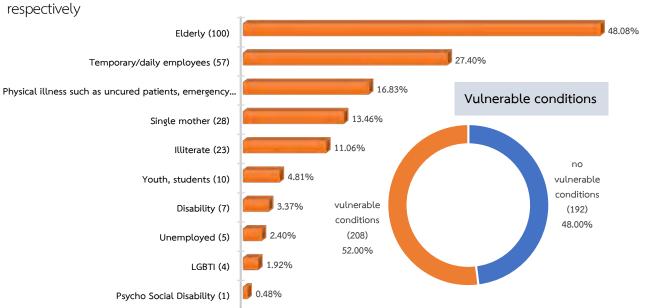


followed by at the primary school level or below, at 30.25 percent, and bachelor's degree or equivalent, 20.25 percent. Most of the sample is Buddhists at 99.25 percent, followed by Muslims at 0.50 percent and Christian at 0.25 percent. Most have marital status of married at 61.75 percent, followed by single at 18.00 percent and widow at 13.50 percent. Their main occupation is farmers/fishermen at the most, 20.00 percent, followed by general contractors/laborers, 19.25 percent, and being the business owner/self-employment, 17.50 percent. Most have an average monthly income of not more than 10,000 baht, 35.00 percent followed by between 10,001-20,000 baht, 30.75 percent, and between 20,001-30,000 baht, 13.25 percent, respectively.



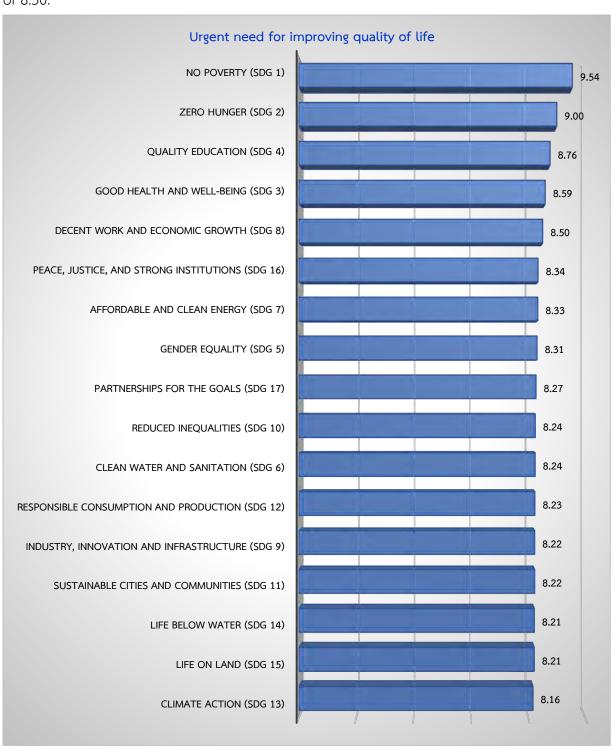


From this survey, it is found that 52.00% of the samples are in vulnerable conditions and 48.00% are not in vulnerable conditions. Among the samples with vulnerable conditions, most are the elderly, 48.08 percent, followed by temporary/daily employees at 27.40 percent, and having physical illnesses such as uncured patients and emergency patients, 16.83 percent, respectively.



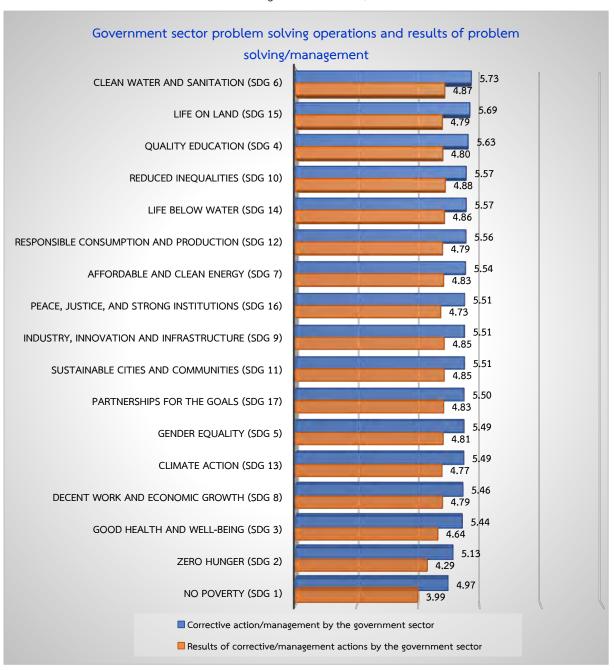
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.54. Next is Hunger elimination (SDG 2), the average is 9.00. Quality Education (SDG 4) average is 8.76. Good Health and Well-being (SDG 3) has an average value of 8.59 and Decent Work and Economic Growth (SDG 8) has an average value of 8.50.



For the government sector's implementation of problem solving, it is found that Clean Water and Sanitation (SDG 6) had the highest average. The average is 5.73. Next to Life on Lands (SDG 15), the average is 5.69. Quality Education (SDG 4) average is 5.63. Reduce inequality (SDG 10) and Life Below Water (SDG 14) have the same average value of 5.57, and Responsible Consumption and Production (SDG 12), the average is 5.56.

As for the results of the government sector's corrective/management actions, it is found that reducing inequality (SDG 10) had the highest average. The average is 4.88, followed by Clean Water and Sanitation (SDG 6), the average is 4.87. Life Below Water (SDG 14) average is 4.86. Industry, Innovation and Infrastructure (SDG 9) and Sustainable Cities and Communities (SDG 11) have the same average value of 4.85, and Affordable and Clean Energy (SDG 7) and Partnerships for the Goals (SDG 17) have the same average value of 4.83, details as shown in Table 4.17.



**Table 4.17** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Nakhon Ratchasima Province)

,	I	t need	Government operations				
	_	owards the Governmen					
		ment of				nanagement	
Development issues	·	of life	•	perations		ons	
		Standard	Average	Standard	Average	Standard	
		deviation	3	deviation	J	deviation	
SDG 1 Poverty eradiation	9.54	1.040	4.97	1.944	3.99	1.760	
poverty alleviation	9.54	1.040	4.97	1.944	3.99	1.760	
SDG 2 Hunger elimination	9.00	1.395	5.13	1.640	4.29	1.607	
Developing smallholder	9.14	1.550	5.03	1.882	4.12	1.861	
farmers to promote a							
sustainable food system							
Having Good Health and	8.86	1.638	5.32	1.621	4.56	1.572	
nutrition *							
SDG 3 Have Good Health	8.59	1.598	5.44	1.554	4.64	1.617	
and Well-being							
Having good mental health	8.63	1.690	5.38	1.611	4.57	1.676	
(Mental Health)							
Road safety	8.54	1.759	5.53	1.638	4.75	1.637	
SDG 4 Quality Education	8.76	1.548	5.63	1.468	4.80	1.548	
Quality Education	8.90	1.657	5.76	1.628	4.84	1.591	
Having the skills necessary	8.62	1.772	5.50	1.471	4.82	1.579	
for a career							
SDG 5 Gender Equality	8.31	1.766	5.49	1.454	4.81	1.529	
Eliminating sexual violence	8.31	1.766	5.49	1.454	4.81	1.529	
in private and public spaces							
SDG 6 Clean Water and	8.24	1.597	5.73	1.387	4.87	1.601	
Sanitation							
Availability and access to	8.28	1.753	5.90	1.575	4.97	1.719	
clean water for drinking and							
use							
Solving water pollution	8.21	1.763	5.57	1.456	4.86	1.631	
problems *							
SDG 7 Affordable and	8.33	1.749	5.54	1.371	4.83	1.537	
Clean Energy							
Having and having universal	8.33	1.749	5.54	1.371	4.83	1.537	
access to clean energy							

	Urgent need Government operat				ent operation	ions	
	towards the		Government		Results of		
	develop	ment of	sector p	oroblem	corrective/n	nanagement	
Development issues	quality	of life	solving o	perations	acti	ions	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 8 Decent Work and	8.50	1.763	5.46	1.445	4.79	1.500	
Economic Growth							
Employment and access to	8.50	1.763	5.46	1.445	4.79	1.500	
good work opportunities							
SDG 9 Industry, Innovation	8.22	1.775	5.51	1.454	4.85	1.470	
and Infrastructure							
Adapting to a green economy	8.22	1.775	5.51	1.454	4.85	1.470	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 10 Reduced	8.24	1.681	5.57	1.487	4.88	1.629	
Inequalities							
Participation and equal	8.24	1.681	5.57	1.487	4.88	1.629	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	8.22	1.775	5.51	1.454	4.85	1.470	
and Communities							
Adapting to a green economy	8.22	1.775	5.51	1.454	4.85	1.470	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*							
SDG 12 Responsible	8.23	1.732	5.56	1.491	4.79	1.617	
Consumption and							
Production							
Waste Management (Reduce	8.23	1.732	5.56	1.491	4.79	1.617	
Reuse Recycle)							
SDG 13 Climate Action	8.16	1.660	5.49	1.408	4.77	1.592	
Solving air pollution	8.14	1.776	5.43	1.580	4.78	1.674	
problems							
Raising awareness of the	8.18	1.762	5.55	1.413	4.86	1.566	
impacts of climate change or							
global warming. (Climate							
Change)							

	Urgen	t need		Governm	ent operation	ns
	towards the		Government		Results of	
Development issues	develop	ment of	sector p	oroblem	corrective/m	nanagement
Development issues	quality	of life	solving o	perations	acti	ons
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	8.21	1.763	5.57	1.456	4.86	1.631
Solving water pollution	8.21	1.763	5.57	1.456	4.86	1.631
problems *						
SDG 15 Life on Land	8.21	1.629	5.69	1.379	4.79	1.564
Coping with and reducing	8.25	1.704	5.52	1.488	4.75	1.635
the impact of natural						
disasters						
Participatory management of	8.17	1.739	5.85	1.473	4.93	1.538
forests and green areas						
SDG 16 Peace, Justice and	8.34	1.720	5.51	1.447	4.73	1.634
Strong Institutions						
Managing quality public	8.34	1.720	5.51	1.447	4.73	1.634
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.27	1.726	5.50	1.361	4.83	1.490
the Goals						
Participation in proposing	8.27	1.726	5.50	1.361	4.83	1.490
policies for a better quality						
of life					_	

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agreed that appropriate local policies should be developed and improved, with the highest number of 56.00 percent, followed by social and economic projects that should be created for comprehensive local development, 54.00 percent and the role of participation in the community should be promoted equally for all genders, 42.75 percent, details as shown in Table 4.18.

**Table 4.18** Number and percentage of approaches to improving quality of life (Nakhon Ratchasima Province)

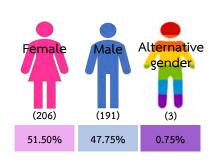
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	224	56.00
local administration.		
Appropriate local policies are developed and improved.	216	54.00
There is no corruption and the efficiency of information	171	42.75
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	142	35.50
management is provided.		
There is a space to exchange local knowledge between	130	32.50
community members and apply it to development.		
Social and economic projects are created for comprehensive	118	29.50
local development.		
Cooperation is created to create effective development policies	104	26.00
in the community.		
Roles of participation in the community are promoted equally	92	23.00
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

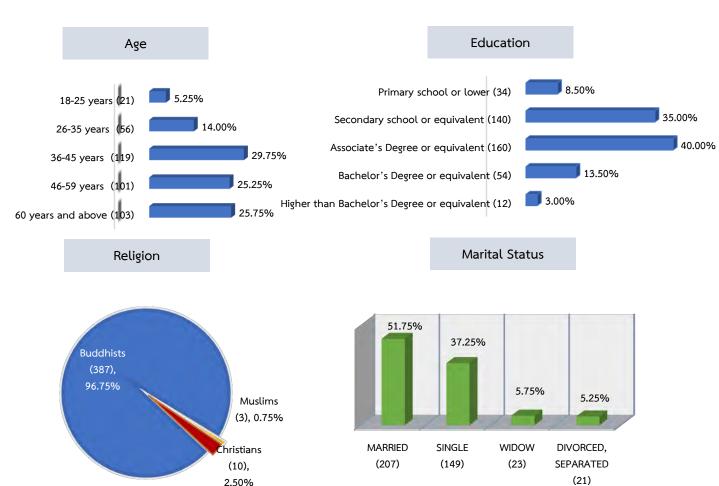
#### 2.9 Ubon Ratchathani Province

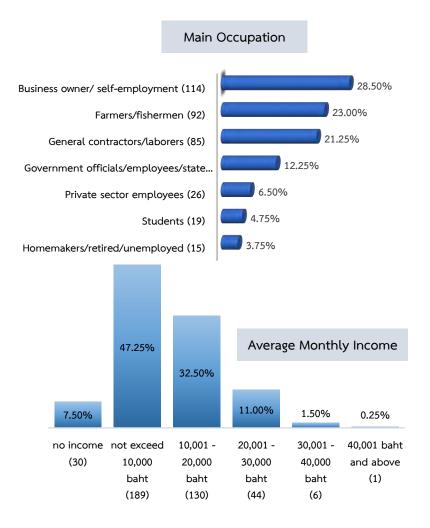
### Part 1 Information about general characteristics

Data survey of Ubon Ratchathani province from a total of 400 samples, the majority are female at 51.50 percent, followed by males at 47.75 percent, and LGBTQ 0.75 percent. Most are between 36-45 years old, 29.75 percent, followed by 60 years and older, 25.75 percent, and between 46-59 years old, 25.25 percent. The highest number of graduates is at the associate bachelor's degree level or equivalent, 40.00 percent,

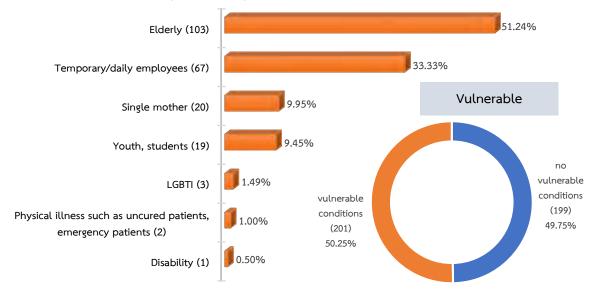


followed by high school level or equivalent, 35.00 percent, and bachelor's degree or equivalent, 13.50 percent. Most of the sample is Buddhists at 96.75 percent, followed by Christians at 2.50 percent, and Muslims 0.75 percent. Marital status of married is the highest at 51.75, followed by single at 37.25 percent and widow at 5.75 percent. Most of their main occupation is the business owner/self-employed, 28.50 percent, followed by being a farmer/fisherman at 23.00 percent and general contractors/laborers 21.25 percent. Most have an average monthly income of not more than 10,000 baht, 47.25 percent, followed by 10,001-20,000 baht, 32.50 percent and 20,001-30,000 baht, 11.00 percent, respectively



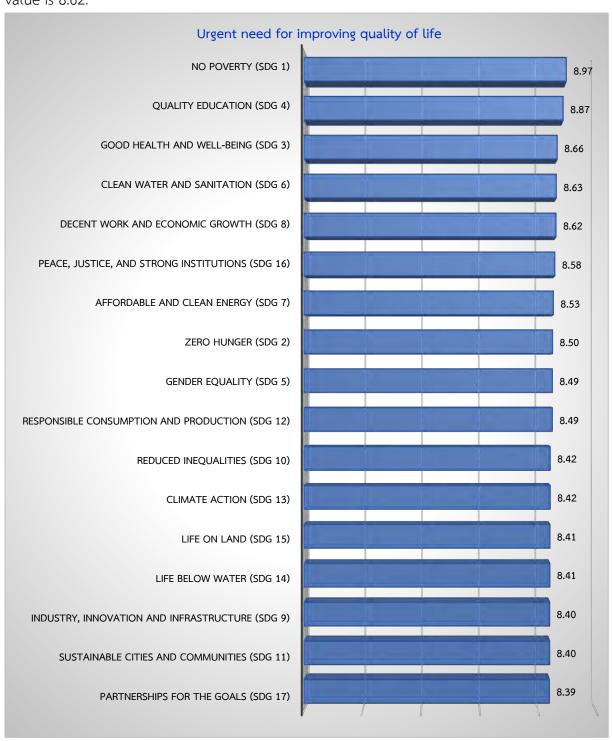


From this survey, it is found that 50.25 percent of the samples are in vulnerable conditions and 49.75 percent are not in vulnerable conditions. Among the most vulnerable subjects, 51.24 percent are elderly, followed by 33.33 percent temporary/daily employees and being a single mother, 9.95 percent, respectively



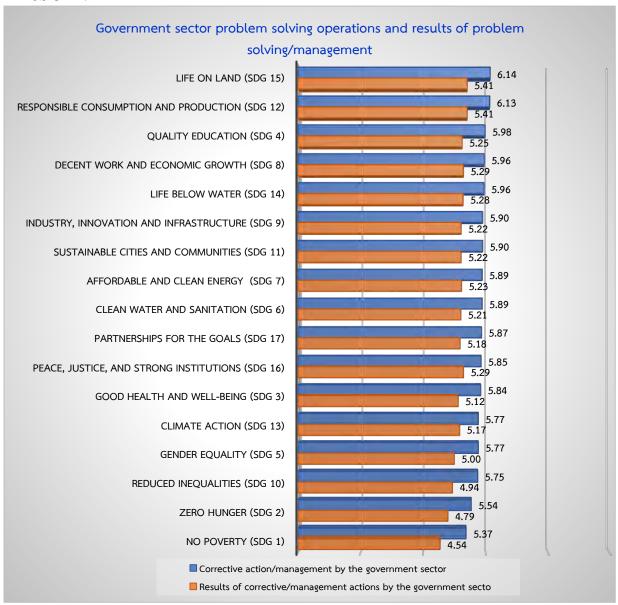
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.97, followed by Quality Education (SDG 4), the average is 8.87. Health and Well-being (SDG 3) average value is 8.66. Clean Water and Sanitation (SDG 6) average value is 8.63, and Decent Work and Economic Growth, the average value is 8.62.



As for the government's implementation of problem solving, it is found that Life on Lands (SDG 15) had the highest average. The average is 6.14, followed by Responsible Consumption and Production (SDG 12), the average is 6.13. Quality Education (SDG 4) average is 5.98, Decent Work and Economic Growth (SDG 8) and Life Below Water (SDG 14) have the same average value of 5.96. Industry, Innovation and Infrastructure (SDG 9) and Sustainable Cities and Communities (SDG 11) have the same average value of 5.90.

As for the results of the government's corrective/management actions, it is found that Life on Lands (SDG 15) and Responsible Consumption and Production (SDG 12) had the same highest average of 5.41, Next, Decent Work and Economic Growth (SDG 8) and Peace, Justice and Strong Institutions (SDG 16) have the same average value of 5.29. Life Below Water (SDG 14) average is 5.28. Quality Education (SDG 4) has an average value of 5.25 and clean energy that is accessible to everyone (SDG 7) has an average value of 5.23, details as shown in Table 4.19.



**Table 4.19** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Ubon Ratchathani Province)

the government s		t need	Government operations				
	towards the		Government		Results of		
D 1	develop	ment of		oroblem		nanagement	
Development issues	quality	of life	solving o	perations	acti	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.97	1.641	5.37	1.361	4.54	1.443	
poverty alleviation	8.97	1.641	5.37	1.361	4.54	1.443	
SDG 2 Hunger elimination	8.50	1.692	5.54	1.272	4.79	1.328	
Developing smallholder	8.63	1.795	5.45	1.281	4.70	1.386	
farmers to promote a							
sustainable food system							
Having Good Health and	8.38	1.722	5.63	1.469	4.87	1.471	
nutrition *							
SDG 3 Have Good Health	8.66	1.552	5.84	1.192	5.12	1.295	
and Well-being							
Having good mental health	8.57	1.657	5.79	1.348	5.03	1.418	
(Mental Health)							
Road safety	8.74	1.543	5.90	1.256	5.21	1.353	
SDG 4 Quality Education	8.87	1.458	5.98	1.230	5.25	1.223	
Quality Education	8.92	1.487	6.00	1.303	5.29	1.342	
Having the skills necessary	8.81	1.548	5.97	1.319	5.20	1.259	
for a career							
SDG 5 Gender Equality	8.49	1.513	5.77	1.527	5.00	1.405	
Eliminating sexual violence	8.49	1.513	5.77	1.527	5.00	1.405	
in private and public spaces							
SDG 6 Clean Water and	8.63	1.303	5.89	1.199	5.21	1.122	
Sanitation							
Availability and access to	8.85	1.496	5.82	1.502	5.13	1.325	
clean water for drinking and							
use							
Solving water pollution	8.41	1.472	5.96	1.348	5.28	1.300	
problems *							
SDG 7 Affordable and	8.53	1.498	5.89	1.428	5.23	1.267	
Clean Energy							
Having and having universal	8.53	1.498	5.89	1.428	5.23	1.267	
access to clean energy							

	Urgent need Government o				ent operation	operations		
	towards the		Government		Results of			
	develop	ment of	sector p	oroblem	corrective/n	nanagement		
Development issues	quality	of life	solving o	perations		ions		
	Average	Standard	Average	Standard	Average	Standard		
		deviation		deviation		deviation		
SDG 8 Decent Work and	8.62	1.506	5.96	1.336	5.29	1.218		
Economic Growth								
Employment and access to	8.62	1.506	5.96	1.336	5.29	1.218		
good work opportunities								
SDG 9 Industry, Innovation	8.40	1.453	5.90	1.406	5.22	1.330		
and Infrastructure								
Adapting to a green economy	8.40	1.453	5.90	1.406	5.22	1.330		
(Design of infrastructure,								
roads, water, electricity,								
buildings)*								
SDG 10 Reduced	8.42	1.536	5.75	1.526	4.94	1.342		
Inequalities								
Participation and equal	8.42	1.536	5.75	1.526	4.94	1.342		
access to opportunities for								
women and gender diverse								
people								
SDG 11 Sustainable Cities	8.40	1.453	5.90	1.406	5.22	1.330		
and Communities								
Adapting to a green economy	8.40	1.453	5.90	1.406	5.22	1.330		
(Design of infrastructure,								
roads, water, electricity,								
buildings)*								
SDG 12 Responsible	8.49	1.414	6.13	1.328	5.41	1.294		
Consumption and								
Production								
Waste Management (Reduce	8.49	1.414	6.13	1.328	5.41	1.294		
Reuse Recycle)								
SDG 13 Climate Action	8.42	1.295	5.77	1.244	5.17	1.179		
Solving air pollution	8.38	1.523	5.70	1.379	5.10	1.314		
problems								
Raising awareness of the	8.46	1.379	5.84	1.508	5.23	1.331		
impacts of climate change or								
global warming. (Climate								
Change)								

	Urgent need Government operations				ıs	
	towards the		Government		Results of	
Development issues	develop	ment of	sector p	oroblem	corrective/management	
Development issues	quality	of life	solving o	perations	acti	ons
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	8.41	1.472	5.96	1.348	5.28	1.300
Solving water pollution	8.41	1.472	5.96	1.348	5.28	1.300
problems *						
SDG 15 Life on Land	8.41	1.329	6.14	1.187	5.41	1.164
Coping with and reducing	8.42	1.526	6.04	1.407	5.32	1.329
the impact of natural						
disasters						
Participatory management of	8.40	1.461	6.25	1.400	5.50	1.334
forests and green areas						
SDG 16 Peace, Justice and	8.58	1.423	5.85	1.667	5.29	1.415
Strong Institutions						
Managing quality public	8.58	1.423	5.85	1.667	5.29	1.415
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.39	1.532	5.87	1.386	5.18	1.238
the Goals						
Participation in proposing	8.39	1.532	5.87	1.386	5.18	1.238
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

As for guidelines for improving the quality of life, most of the sample agreed that there should be cooperation in setting development policies in the community most efficiently, 51.00 percent, Second, there should be promotion of equal participation roles in the community for all genders, 47.50 percent, and there should be a distribution of capital resources and authority for local administration, 47.25 percent, details as shown in Table 4.20.

**Table 4.20** Number and percentage of approaches to improving quality of life (Ubon Ratchathani Province)

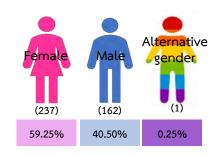
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	204	51.00
local administration.		
Appropriate local policies are developed and improved.	190	47.50
There is no corruption and the efficiency of information	189	47.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	164	41.00
management is provided.		
There is a space to exchange local knowledge between	155	38.75
community members and apply it to development.		
Social and economic projects are created for comprehensive	127	31.75
local development.		
Cooperation is created to create effective development policies	89	22.25
in the community.		
Roles of participation in the community are promoted equally	82	20.50
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

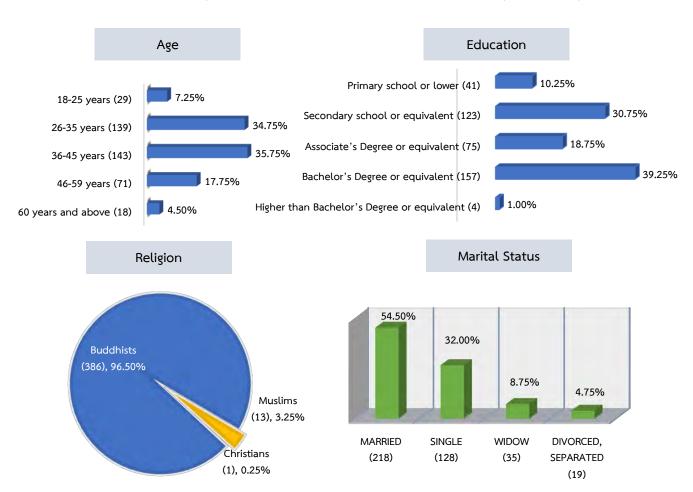
#### 2.10 Surat Thani Province

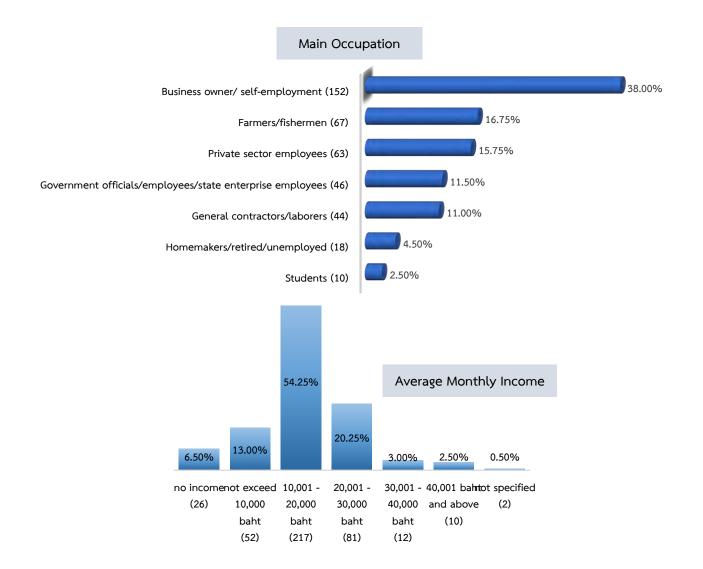
### Part 1 Information about general characteristics

Surat Thani Province data survey from a total of 400 samples, the majority are female at 59.25 percent, followed by males at 40.50 percent and LGBTQ 0.25 percent. Most are between 36-45 years old, 35.75 percent, followed by 26-35 years old, 34.75 percent and between 45-69 years old, 17.75 percent. The highest number of graduates is a bachelor's degree or equivalent, 39.25

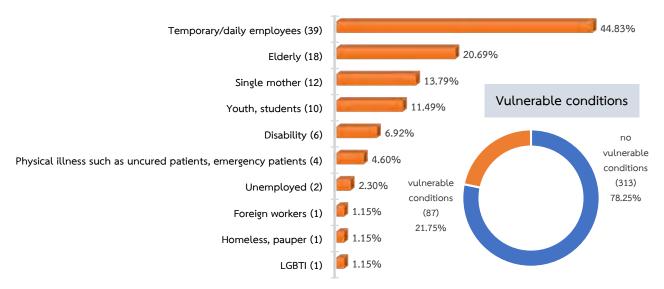


percent, followed by secondary education or equivalent, 30.75 percent and associate's degree or equivalent, 18.75 percent. Most of the sample is Buddhists at 96.50 percent, followed by Muslims at 3.25 percent and Christians 0.25 percent. Marital status of married is the highest at 54.50, followed by single at 32.00 percent and widow at 8.75 percent. Their main occupation is the business owner/self-employed, the most at 38.00 percent, followed by being a farmer/fisherman at 16.75 percent and are private sector employees, 15.75 percent. Most have an average monthly income 10,001-20,000 baht, 54.25 percent, followed by 20,001-30,000 baht, 20.25 percent and not more than 10,000 baht, 13.00 percent, respectively.



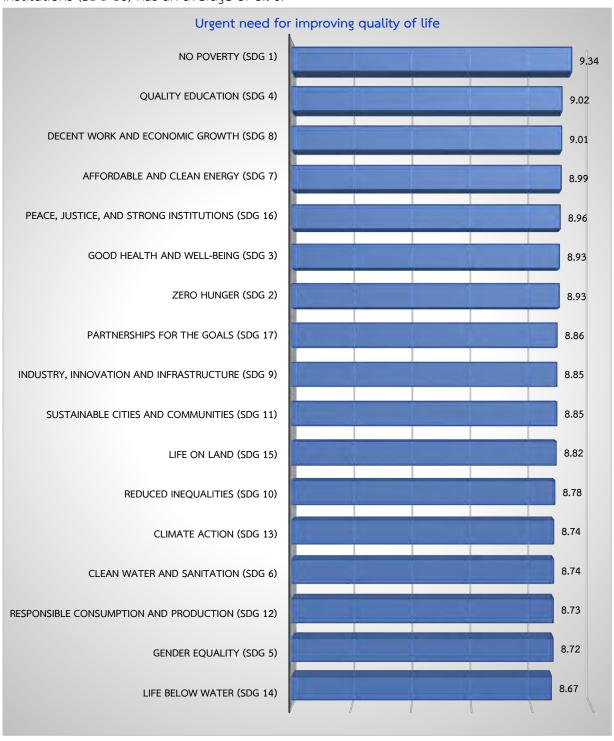


From this survey, it is found that 78.25 percent of the samples are not in vulnerable conditions and 21.75 percent are in vulnerable conditions. Among the samples with vulnerable conditions, they are temporary/daily employees, the most at 44.83 percent, followed by the elderly at 20.69 percent and being a single mother, 13.79 percent, respectively.



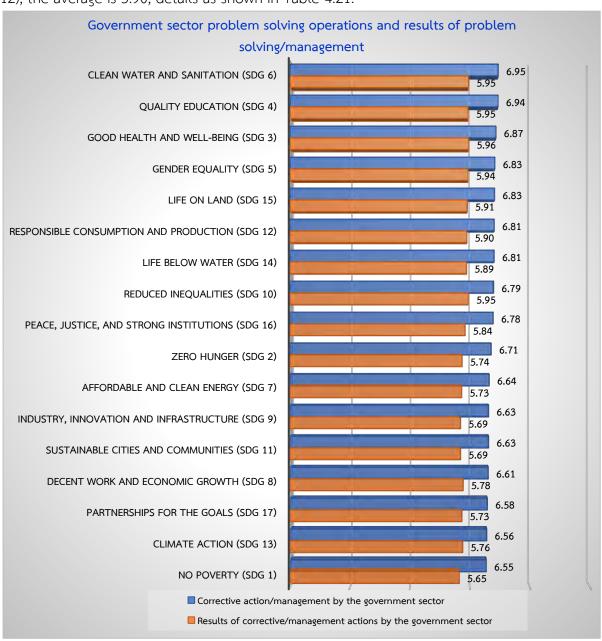
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 9.34, followed by Quality Education (SDG 4), the average is 9.02. Decent Work and Economic Growth (SDG 8) average is 9.01. Clean energy that is accessible to everyone (SDG 7) has an average of 8.99 and Peace, Justice and Strong Institutions (SDG 16) has an average of 8.96.



For the government sector's implementation of problem solving, it is found that Clean Water and Sanitation (SDG 6) had the highest average. The average is 6.95, followed by Quality Education (SDG 4), the average is 6.94. Health and Well-being (SDG 3) average is 6.87. Gender Equality (SDG 5) and Life on Lands (SDG 15) have the same average value of 6.83 and Responsible Consumption and Production (SDG 12) and Life Below Water (SDG 14) have the same average value of 6.81.

As for the results of the government sector's corrective/management actions, it is found that health and Well-being (SDG 3) had the highest average. The average is 5.9.6 Next, Clean Water and Sanitation (SDG 6), Quality Education (SDG 4) and reducing inequality (SDG 10) have the same average. The average is 5.95. Gender Equality (SDG 5) average is 5.94. Life on Lands (SDG 15) average value is 5.91 and Responsible Consumption and Production (SDG 12), the average is 5.90, details as shown in Table 4.21.



**Table 4.21** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Surat Thani Province)

the government s		t need	Government operations			
Development issues	towards the		Government		Results of	
	development of		sector problem		corrective/management	
	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 1 Poverty eradiation	9.34	1.218	6.55	2.091	5.65	2.168
poverty alleviation	9.34	1.218	6.55	2.091	5.65	2.168
SDG 2 Hunger elimination	8.93	1.198	6.71	1.842	5.74	2.103
Developing smallholder	8.92	1.365	6.69	1.931	5.74	2.128
farmers to promote a						
sustainable food system						
Having Good Health and	8.93	1.311	6.75	1.952	5.76	2.237
nutrition *						
SDG 3 Have Good Health	8.93	1.227	6.87	1.927	5.96	2.252
and Well-being						
Having good mental health	8.96	1.311	6.86	2.021	5.97	2.313
(Mental Health)						
Road safety	8.90	1.410	6.89	1.981	5.96	2.316
SDG 4 Quality Education	9.02	1.213	6.94	1.917	5.95	2.237
Quality Education	9.07	1.325	6.91	1.967	5.95	2.298
Having the skills necessary	9.00	1.331	6.99	2.047	5.96	2.307
for a career						
SDG 5 Gender Equality	8.72	1.611	6.83	2.014	5.94	2.295
Eliminating sexual violence	8.72	1.611	6.83	2.014	5.94	2.295
in private and public spaces						
SDG 6 Clean Water and	8.74	1.488	6.95	1.876	5.95	2.233
Sanitation						
Availability and access to	8.82	1.509	7.07	2.011	6.04	2.344
clean water for drinking and						
use						
Solving water pollution	8.67	1.767	6.81	2.007	5.89	2.286
problems *						
SDG 7 Affordable and	8.99	1.441	6.64	1.918	5.73	2.200
Clean Energy						
Having and having universal	8.99	1.441	6.64	1.918	5.73	2.200
access to clean energy						

	Urgent need Government operation				ns	
	towards the		Government		Results of	
	development of		sector p	oroblem	corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
	J	deviation		deviation	J	deviation
SDG 8 Decent Work and	9.01	1.434	6.61	1.973	5.78	2.218
Economic Growth						
Employment and access to	9.01	1.434	6.61	1.973	5.78	2.218
good work opportunities						
SDG 9 Industry, Innovation	8.85	1.550	6.63	2.022	5.69	2.280
and Infrastructure						
Adapting to a green economy	8.85	1.550	6.63	2.022	5.69	2.280
(Design of infrastructure, roads						
water, electricity, buildings)*						
SDG 10 Reduced	8.78	1.557	6.79	2.021	5.95	2.336
Inequalities						
Participation and equal	8.78	1.557	6.79	2.021	5.95	2.336
access to opportunities for						
women and gender diverse						
people						
SDG 11 Sustainable Cities	8.85	1.550	6.63	2.022	5.69	2.280
and Communities						
Adapting to a green economy	8.85	1.550	6.63	2.022	5.69	2.280
(Design of infrastructure, roads						
water, electricity, buildings)*						
SDG 12 Responsible	8.73	1.794	6.81	2.077	5.90	2.437
Consumption and						
Production						
Waste Management (Reduce	8.73	1.794	6.81	2.077	5.90	2.437
Reuse Recycle)						
SDG 13 Climate Action	8.74	1.547	6.56	1.921	5.76	2.192
Solving air pollution	8.70	1.748	6.59	2.078	5.83	2.314
problems						
Raising awareness of the	8.80	1.611	6.56	2.049	5.70	2.261
impacts of climate change or						
global warming. (Climate						
Change)						
SDG 14 Life Below Water	8.67	1.767	6.81	2.007	5.89	2.286

	Urgent need		Government operations			
Development issues	towards the		Government		Results of	
	development of		sector problem		corrective/management	
	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
Solving water pollution	8.67	1.767	6.81	2.007	5.89	2.286
problems *						
SDG 15 Life on Land	8.82	1.479	6.83	1.873	5.91	2.222
Coping with and reducing	8.86	1.566	6.88	1.859	5.93	2.228
the impact of natural						
disasters						
Participatory management of	8.79	1.650	6.79	2.096	5.91	2.378
forests and green areas						
SDG 16 Peace, Justice and	8.96	1.510	6.78	2.077	5.84	2.359
Strong Institutions						
Managing quality public	8.96	1.510	6.78	2.077	5.84	2.359
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	8.86	1.481	6.58	2.028	5.73	2.274
the Goals						
Participation in proposing	8.86	1.481	6.58	2.028	5.73	2.274
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agreed that appropriate local policies should be developed and improved, with the highest number of 64.25 percent, Next, no corruption and the efficiency of information disclosure is increased for transparent administration, 52.75 percent. And there should be knowledge about environmental conservation and Waste management, 46.25 percent, details as shown in Table 4.22.

**Table 4.22** Number and percentage of approaches to improving quality of life (Surat Thani Province)

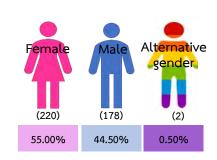
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	257	64.25
local administration.		
Appropriate local policies are developed and improved.	211	52.75
There is no corruption and the efficiency of information	185	46.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	144	36.00
management is provided.		
There is a space to exchange local knowledge between	125	31.25
community members and apply it to development.		
Social and economic projects are created for comprehensive	109	27.25
local development.		
Cooperation is created to create effective development policies	88	22.00
in the community.		
Roles of participation in the community are promoted equally	68	17.00
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

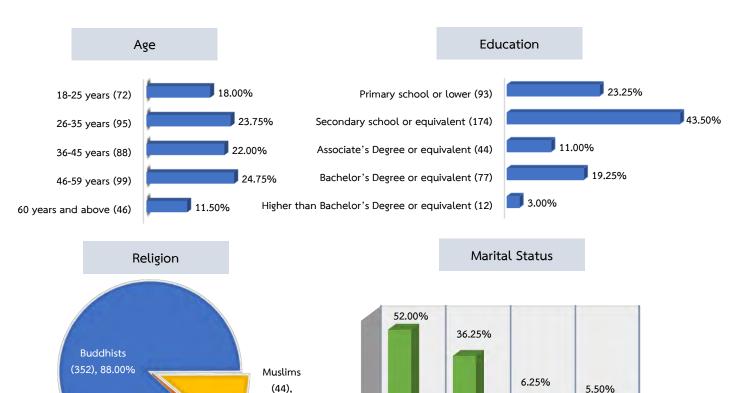
#### 2.11 Phuket Province

### Part 1 Information about general characteristics

Data survey of Phuket province From a total of 400 samples, the majority are female at 55.00 percent, followed by males at 44.50 percent and LGBTQ 0.50 percent. The greatest number is between 46-59 years old, 24.75 percent, followed by 26-35 years old, 23.75 percent and between 36-45 years old, 22.00 percent. The highest number of graduates is secondary school or equivalent, 43.50 percent, followed



by primary school or lower, 23.25 percent and bachelor's degree or equivalent, 19.25 percent. Most of the sample is Buddhists, 88.00 percent, followed by Muslims at 11.00 percent and 1.00 percent is Christians. Marital status of married is the highest at 52.00 percent, followed by single at 36.25 percent and widow at 6.25 percent. Their main occupation is the business owner/self-employed, the most at 26.50 percent, followed by general contractor/laborer at 22.50 percent and are government officials/employees/state enterprise employees, 15.25 percent. Have an average monthly income 10,001-20,000 baht, the most, 38.25 percent, followed by no more than 10,000 baht, 19.75 percent and have no income, 17.00 percent baht, respectively.



MARRIED

(208)

SINGLE

(145)

**WIDOW** 

(25)

DIVORCED.

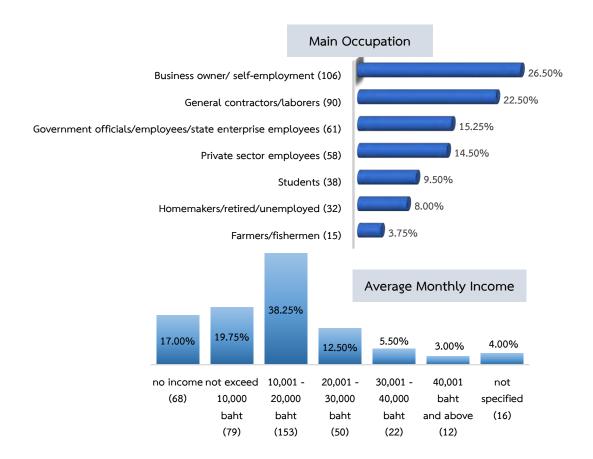
**SEPARATED** 

(22)

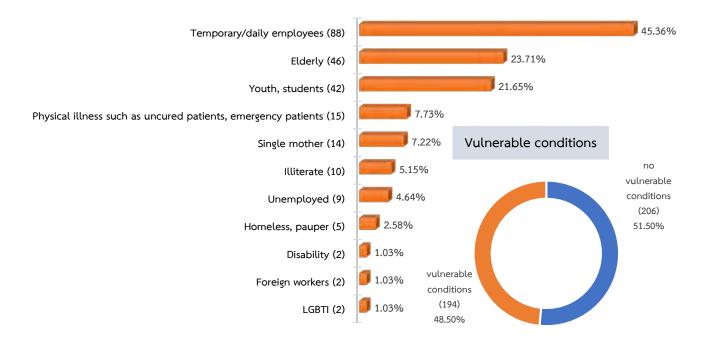
11.00%

Christians

(4), 1.00%

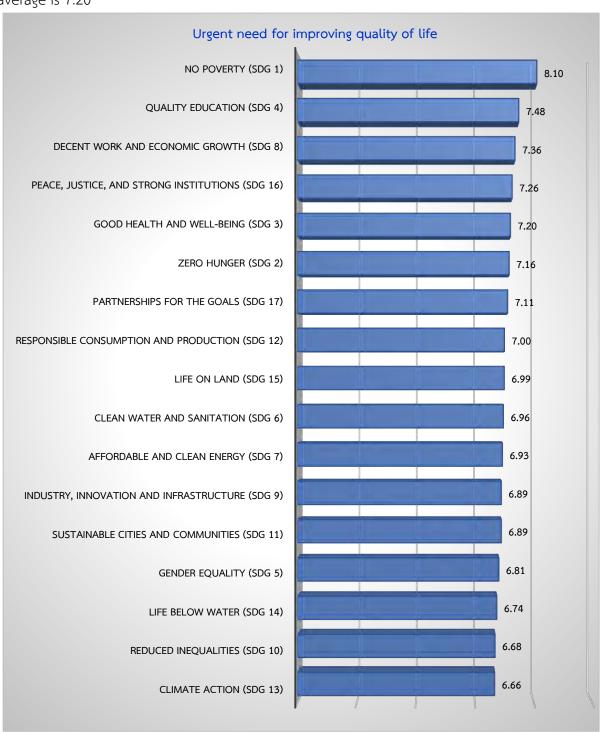


From this survey, it is found that 51.50 percent of the samples are not in vulnerable conditions and 48.50 percent are in vulnerable conditions. Among the samples with vulnerable conditions, they are temporary/daily employees, the most at 45.36 percent, followed by the elderly at 23.71 percent and are youth, students, 21.65 percent, respectively.



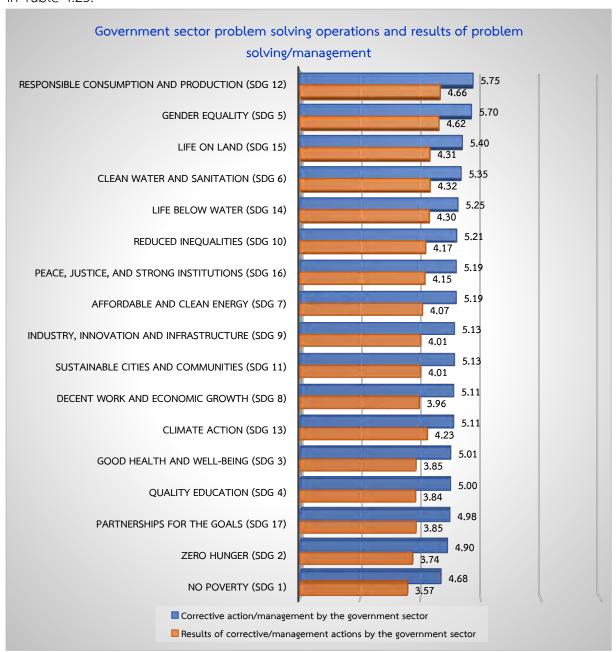
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.10, followed by Quality Education (SDG 4), the average is 7.48. Decent Work and Economic Growth (SDG 8) average is 7.36. Peace, Justice and Strong Institutions (SDG 16) average is 7.26 and health and Well-being (SDG 3), the average is 7.20



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.75, followed by Gender Equality (SDG 5), the average is 5.70. Life on Lands (SDG 15) average value is 5.40. Clean Water and Sanitation (SDG 6) average value is 5.35 and Life Below Water (SDG 14) the average is 5.25.

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 4.66, followed by Gender Equality (SDG 5), the average is 4.62. Clean Water and Sanitation (SDG 6) average is 4.32. Life on Lands (SDG 15) have an average value of 4.31 and Life Below Water (SDG 14) have an average value of 4.30, details as shown in Table 4.23.



**Table 4.23** Mean, standard deviation of urgent needs and actions to solve problems of the government sector. (Phuket Province)

the government s	Urgent need		Government operations				
Development issues	towards the		Government		Results of		
	development of		sector problem		corrective/management		
	quality of life		solving operations		actions		
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.10	2.295	4.68	2.246	3.57	1.943	
poverty alleviation	8.10	2.295	4.68	2.246	3.57	1.943	
SDG 2 Hunger elimination	7.16	1.799	4.90	1.852	3.74	1.609	
Developing smallholder	7.35	1.888	4.80	2.038	3.61	1.729	
farmers to promote a							
sustainable food system							
Having Good Health and	6.98	2.293	5.04	2.034	3.89	1.868	
nutrition *							
SDG 3 Have Good Health	7.20	1.875	5.01	1.768	3.85	1.623	
and Well-being							
Having good mental health	6.85	2.436	4.92	2.041	3.77	1.884	
(Mental Health)							
Road safety	7.61	1.942	5.10	2.053	3.93	1.855	
SDG 4 Quality Education	7.48	1.724	5.00	1.916	3.84	1.642	
Quality Education	7.84	1.999	5.00	2.191	3.94	1.917	
Having the skills necessary	7.15	2.061	5.03	2.043	3.79	1.795	
for a career							
SDG 5 Gender Equality	6.81	2.375	5.70	2.140	4.62	2.057	
Eliminating sexual violence	6.81	2.375	5.70	2.140	4.62	2.057	
in private and public spaces							
SDG 6 Clean Water and	6.96	1.767	5.35	1.689	4.32	1.424	
Sanitation							
Availability and access to	7.19	2.009	5.46	2.065	4.36	1.814	
clean water for drinking and							
use							
Solving water pollution	6.74	2.132	5.25	1.864	4.30	1.671	
problems *							
SDG 7 Affordable and	6.93	2.031	5.19	1.811	4.07	1.557	
Clean Energy							
Having and having universal	6.93	2.031	5.19	1.811	4.07	1.557	
access to clean energy							

	Urgen	t need	Government operations				
	towards the		Government		Results of		
	development of		sector problem		corrective/manageme		
Development issues	T.	of life		perations	actio	_	
	Average	Standard	Average	Standard	Average	Standard	
	J	deviation		deviation	J	deviation	
SDG 8 Decent Work and	7.36	1.888	5.11	1.877	3.96	1.616	
Economic Growth							
Employment and access to	7.36	1.888	5.11	1.877	3.96	1.616	
good work opportunities							
SDG 9 Industry, Innovation	6.89	1.777	5.13	1.854	4.01	1.621	
and Infrastructure							
Adapting to a green economy	6.89	1.777	5.13	1.854	4.01	1.621	
(Design of infrastructure,							
roads, water, electricity,							
buildings)*  SDG 10 Reduced	( (0	2.126	Г 01	1 707	4.17	1 717	
	6.68	2.126	5.21	1.797	4.17	1.716	
Inequalities	( (0	2.126	F 01	1 707	4.17	1 71 (	
Participation and equal	6.68	2.126	5.21	1.797	4.17	1.716	
access to opportunities for							
women and gender diverse							
people	6.00	1 777	Г 12	1.054	4.01	1 (01	
SDG 11 Sustainable Cities and Communities	6.89	1.777	5.13	1.854	4.01	1.621	
Adapting to a green economy	6.89	1.777	5.13	1.854	4.01	1.621	
(Design of infrastructure,	0.09	1.777	5.15	1.034	4.01	1.021	
roads, water, electricity,							
buildings)*							
SDG 12 Responsible	7.00	1.982	5.75	2.041	4.66	1.868	
Consumption and	7.00	1.902	3.13	2.041	4.00	1.000	
Production							
Waste Management (Reduce	7.00	1.982	5.75	2.041	4.66	1.868	
Reuse Recycle)	7.00	1.702	5.15	2.041	4.00	1.000	
SDG 13 Climate Action	6.66	2.025	5.11	1.636	4.23	1.399	
Solving air pollution	6.70	2.223	4.95	1.991	4.23	1.743	
problems	0.70	2.223	7.70	1.231	7.11	1.140	
Raising awareness of the	6.65	2.245	5.27	1.819	4.29	1.624	
impacts of climate change or	0.03	2.273	5.21	1.017	1.27	1.02	
global warming. (Climate							
Change)							
Charise)							

	Urgen	t need	Government operations			
	towards the		Government		Result	s of
Development issues	develop	ment of	sector p	oroblem	corrective/ma	anagement
Development issues	quality	of life	solving o	perations	actio	ons
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	6.74	2.132	5.25	1.864	4.30	1.671
Solving water pollution	6.74	2.132	5.25	1.864	4.30	1.671
problems *						
SDG 15 Life on Land	6.99	1.571	5.40	1.632	4.31	1.382
Coping with and reducing	7.01	1.954	5.36	1.920	4.32	1.741
the impact of natural						
disasters						
Participatory management of	6.97	1.765	5.43	1.793	4.31	1.493
forests and green areas						
SDG 16 Peace, Justice and	7.26	1.805	5.19	1.691	4.15	1.543
Strong Institutions						
Managing quality public	7.26	1.805	5.19	1.691	4.15	1.543
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	7.11	1.873	4.98	1.853	3.85	1.546
the Goals						
Participation in proposing	7.11	1.873	4.98	1.853	3.85	1.546
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agreed that there is no corruption and increased efficiency of information disclosure for transparent administration, the highest at 59.50 percent, followed by social and economic projects that should be developed for comprehensive local development, 58.25 percent, and there should be a distribution of capital resources and authority for local administration at 53.00 percent, details as shown in Table 4.24.

**Table 4.24** Number and percentage of approaches to improving quality of life (Phuket Province)

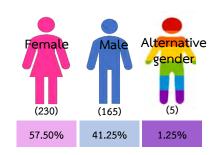
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	238	59.50
local administration.		
Appropriate local policies are developed and improved.	233	58.25
There is no corruption and the efficiency of information	212	53.00
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	178	44.50
management is provided.		
There is a space to exchange local knowledge between	115	28.75
community members and apply it to development.		
Social and economic projects are created for comprehensive	108	27.00
local development.		
Cooperation is created to create effective development policies	61	15.25
in the community.		
Roles of participation in the community are promoted equally	49	12.25
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

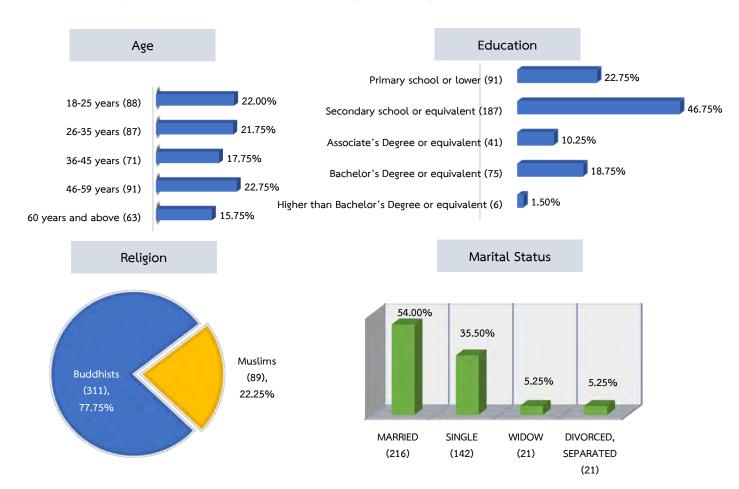
#### 2.12 Songkhla Province

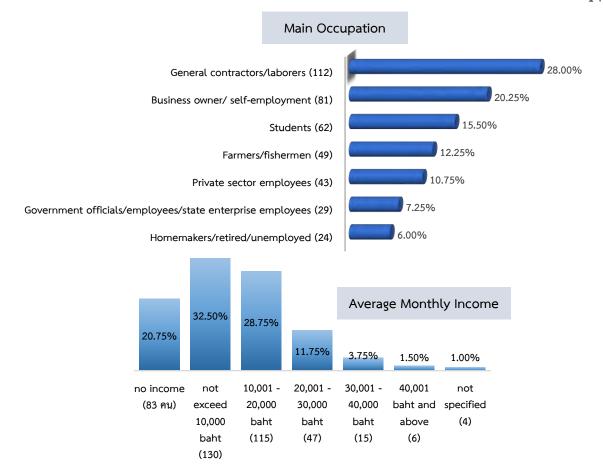
#### Part 1 Information about general characteristics

Survey data for Songkhla Province from a total of 400 samples, the majority of samples are female, 57.50 percent, followed by males, 41.25 percent and LGBTQ 1.25 percent. The greatest number is between 46-59 years old, 22.75 percent, followed by 18-25 years old, 22.00 percent and between 26-35 years old, 21.75 percent. The highest number of graduates is at the secondary school level or

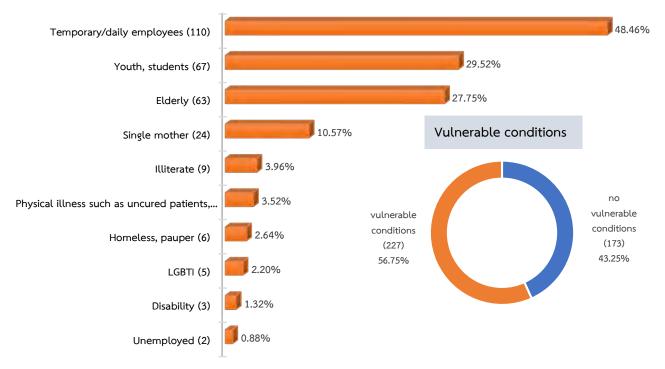


equivalent, 46.75 percent, followed by primary school level or less, 22.75 percent and bachelor's degree or equivalent, 18.75 percent. Most of the sample is Buddhists (77.75 percent) and Muslims (22.25 percent). Marital status of married is the highest at 54.00 percent, followed by single at 35.50 percent and have the status of being widow and divorced and separated in the same proportion, 5.25 percent. Their main occupation is general contractor/laborer, the most at 28.00 percent, followed by owning their own business/self-employment, 20.25 percent and are students/students 15.50 percent. An average monthly income not exceeding 10,000 baht is the highest at 32.50 percent, followed by 10,001-20,000 baht, 28.75 percent and have no income, 20.75 percent, respectively.



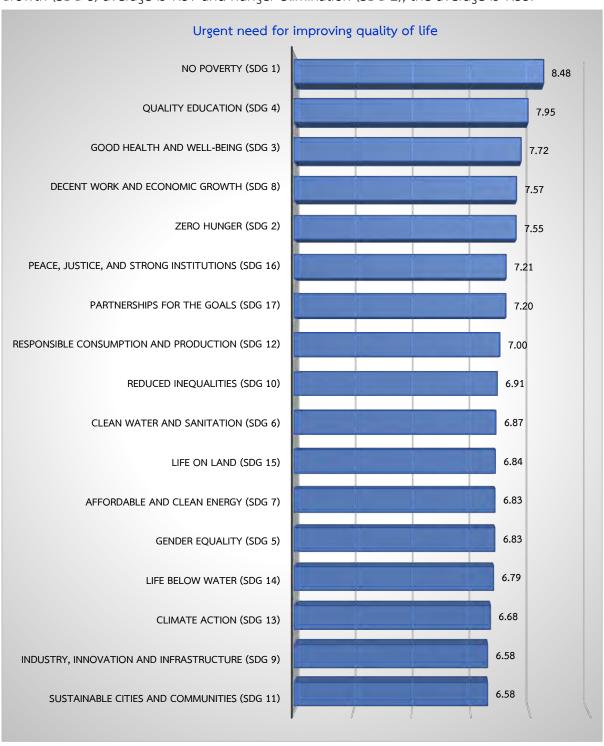


From this survey, it is found that 56.75 percent of the samples are in vulnerable conditions and 43.25 percent are not in vulnerable conditions. Among the samples with vulnerable conditions, most are temporary/daily employees at 48.46 percent, followed by youths and students at 29.52% and senior citizens at 27.75% respectively.



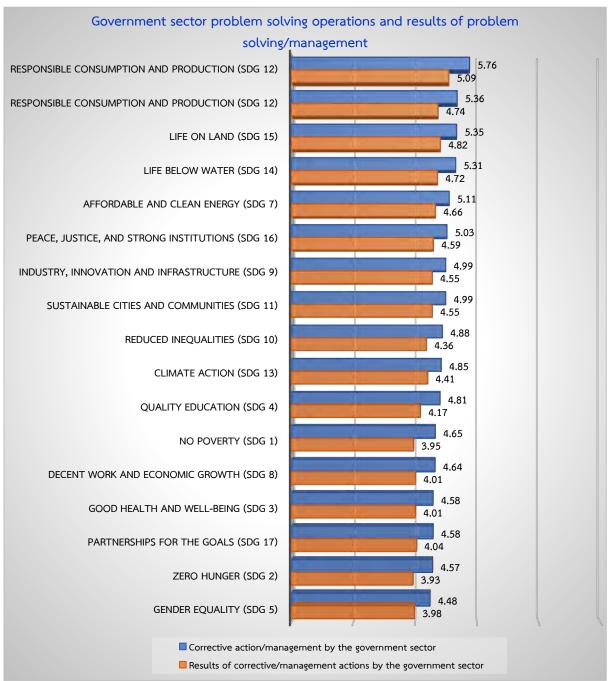
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.48, followed by Quality Education (SDG 4), the average is 7.95. Health and Well-being (SDG 3) average is 7.72. Decent Work and Economic Growth (SDG 8) average is 7.57 and hunger elimination (SDG 2), the average is 7.55.



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.76, Followed by Clean Water and Sanitation (SDG 6), the average is 5.36. Life on Lands (SDG 15) average value is 5.35. Life Below Water (SDG 14) average is 5.31 and Affordable and Clean Energy (SDG 7), the average is 5.11.

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.09, followed by Life on Lands (SDG 15), the average is 4.82. Clean Water and Sanitation (SDG 6) average is 4.74. Life Below Water (SDG 14) average is 4.72 and Affordable and Clean Energy (SDG 7), the average is 4.66, details as shown in Table 4.25.



**Table 4.25** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Songkhla Province)

the government s		t need	Government operations				
	towards the		Government		Resul	ts of	
	development of		sector problem		corrective/managemen		
Development issues	quality	of life	solving o	perations	actio	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.48	1.926	4.65	1.987	3.95	1.902	
poverty alleviation	8.48	1.926	4.65	1.987	3.95	1.902	
SDG 2 Hunger elimination	7.55	1.791	4.57	1.553	3.93	1.611	
Developing smallholder	7.56	2.086	4.50	1.813	3.83	1.790	
farmers to promote a							
sustainable food system							
Having Good Health and	7.55	1.914	4.65	1.647	4.04	1.773	
nutrition *							
SDG 3 Have Good Health	7.72	1.756	4.58	1.556	4.01	1.609	
and Well-being							
Having good mental health	7.63	2.148	4.37	1.831	3.78	1.885	
(Mental Health)							
Road safety	7.80	1.985	4.82	1.736	4.28	1.807	
SDG 4 Quality Education	7.95	1.676	4.81	1.645	4.17	1.746	
Quality Education	8.21	1.875	4.88	1.948	4.22	2.111	
Having the skills necessary	7.71	1.884	4.78	1.682	4.19	1.723	
for a career							
SDG 5 Gender Equality	6.83	2.245	4.48	1.766	3.98	1.765	
Eliminating sexual violence	6.83	2.245	4.48	1.766	3.98	1.765	
in private and public spaces							
SDG 6 Clean Water and	6.87	1.862	5.36	1.636	4.74	1.579	
Sanitation							
Availability and access to	6.94	2.221	5.43	2.016	4.77	1.905	
clean water for drinking and							
use							
Solving water pollution	6.79	2.036	5.31	1.835	4.72	1.732	
problems *							
SDG 7 Affordable and	6.83	1.910	5.11	1.602	4.66	1.615	
Clean Energy							
Having and having universal	6.83	1.910	5.11	1.602	4.66	1.615	
access to clean energy							

	Urgent need Government operations					s
	towards the		Government		Results of	
	develop	ment of	sector p	oroblem	corrective/m	anagement
Development issues	quality	of life	solving o	perations	actio	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 8 Decent Work and	7.57	1.917	4.64	1.652	4.01	1.632
Economic Growth						
Employment and access to	7.57	1.917	4.64	1.652	4.01	1.632
good work opportunities						
SDG 9 Industry, Innovation	6.58	1.943	4.99	1.538	4.55	1.584
and Infrastructure						
Adapting to a green economy	6.58	1.943	4.99	1.538	4.55	1.584
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 10 Reduced	6.91	2.013	4.88	1.683	4.36	1.800
Inequalities						
Participation and equal	6.91	2.013	4.88	1.683	4.36	1.800
access to opportunities for						
women and gender diverse						
people						
SDG 11 Sustainable Cities	6.58	1.943	4.99	1.538	4.55	1.584
and Communities						
Adapting to a green economy	6.58	1.943	4.99	1.538	4.55	1.584
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 12 Responsible	7.00	2.229	5.76	2.102	5.09	1.994
Consumption and						
Production						
Waste Management (Reduce	7.00	2.229	5.76	2.102	5.09	1.994
Reuse Recycle)						
SDG 13 Climate Action	6.68	1.871	4.85	1.481	4.41	1.419
Solving air pollution	6.79	2.110	4.74	1.699	4.27	1.610
problems						
Raising awareness of the	6.57	2.137	4.98	1.726	4.59	1.627
impacts of climate change or						
global warming. (Climate						
Change)						

	Urgen	t need	Government operations				
	towards the		Government		Results of		
Davelonment issues	develop	ment of	sector p	oroblem	corrective/ma	anagement	
Development issues	quality	of life	solving o	perations	actio	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 14 Life Below Water	6.79	2.036	5.31	1.835	4.72	1.732	
Solving water pollution	6.79	2.036	5.31	1.835	4.72	1.732	
problems *							
SDG 15 Life on Land	6.84	1.785	5.35	1.511	4.82	1.488	
Coping with and reducing	7.11	2.086	5.58	1.894	4.95	1.788	
the impact of natural							
disasters							
Participatory management of	6.59	1.930	5.14	1.672	4.72	1.701	
forests and green areas							
SDG 16 Peace, Justice and	7.21	2.034	5.03	1.636	4.59	1.678	
Strong Institutions							
Managing quality public	7.21	2.034	5.03	1.636	4.59	1.678	
services and disseminating							
public information in a							
transparent manner							
SDG 17 Partnerships for	7.20	1.874	4.58	1.734	4.04	1.783	
the Goals							
Participation in proposing	7.20	1.874	4.58	1.734	4.04	1.783	
policies for a better quality							
of life							

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

As for guidelines for improving the quality of life, the sample agreed that there should be no corruption and increased efficiency of information disclosure for transparent administration, the most at 53.50 percent, followed by social and economic projects that should be created for comprehensive local development, 47.50 percent and there should be effective cooperation in formulating development policies in the community, 40.50 percent, details as shown in Table 4.26

**Table 4.26** Number and percentage of approaches to improving quality of life (Songkhla Province)

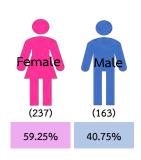
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	214	53.50
local administration.		
Appropriate local policies are developed and improved.	190	47.50
There is no corruption and the efficiency of information	162	40.50
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	156	39.00
management is provided.		
There is a space to exchange local knowledge between	155	38.75
community members and apply it to development.		
Social and economic projects are created for comprehensive	152	38.00
local development.		
Cooperation is created to create effective development policies	90	22.50
in the community.		
Roles of participation in the community are promoted equally	77	19.25
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

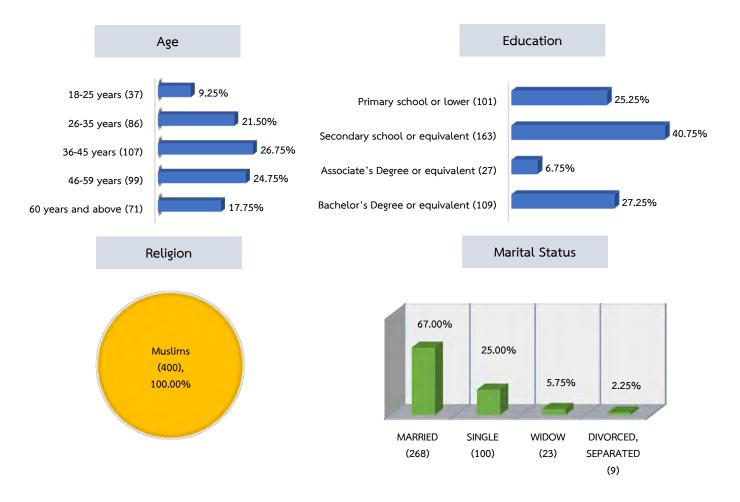
#### 2.13 Pattani Province

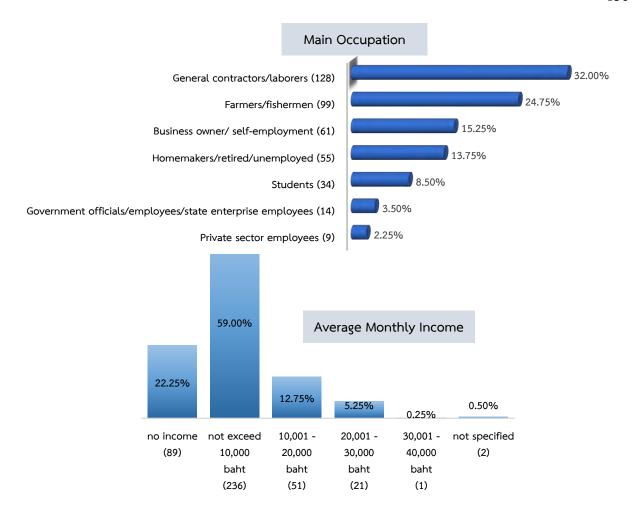
#### Part 1 Information about general characteristics

Data survey of Pattani province from a total of 400 samples, 59.25% are female and 40.75% are male. Most are between 36-45 years old, 26.75 percent, followed by 46-59 years old, 24.75 percent and between 26-35 years old, 21.50 percent. The highest number of graduates is at the secondary school level or equivalent, 40.75 percent, followed by a bachelor's degree or equivalent, 27.25 percent and primary school level or lower, 25.25 percent. All samples are Muslim,

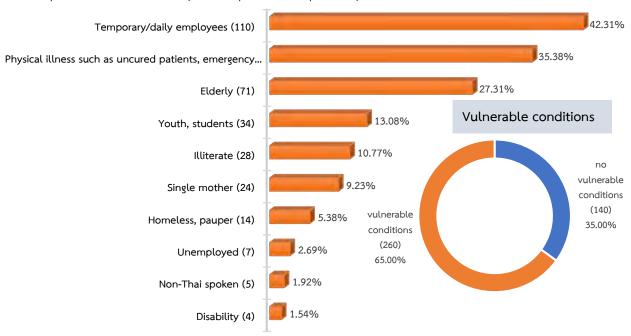


100.00 percent. Marital status of married is the most at 67.00 percent, followed by single at 25.00 percent and 5.75 percent is widow. Their main occupation is general contractors/laborers, the most at 32.00 percent, followed by farmers/fishermen, 24.75 percent, and self-employed business owners/self-employed, 15.25 percent. Have an average monthly income not exceeding 10,000 baht, the highest at 59.00 percent, followed by no income at 22.25 percent and 10,001-20,000 baht, 12.75 percent, respectively.



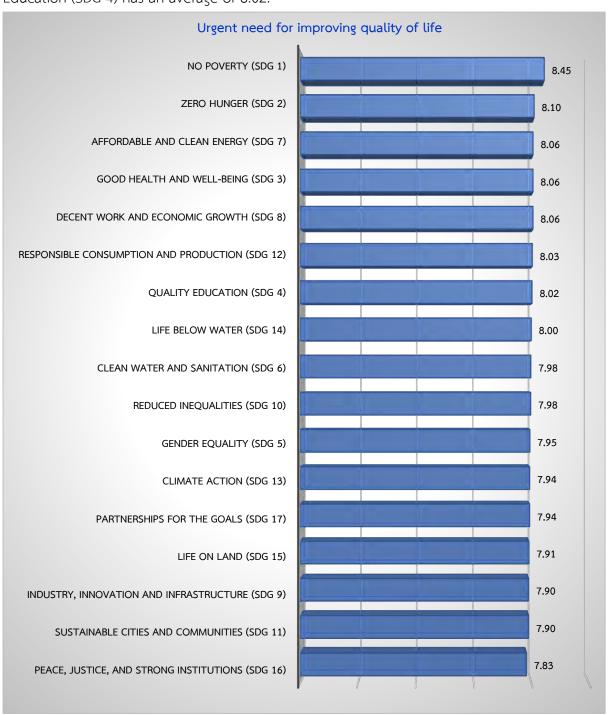


From this survey, it is found that the samples are in the most vulnerable conditions, 65.00 percent, and are not in vulnerable conditions, 35.00 percent. Among the samples with vulnerable conditions, they are temporary/daily employees, the most at 42.31 percent, followed by conditions of physical illness such as uncured patients and emergency patients, 35.38 percent and are elderly, 27.31 percent, respectively.



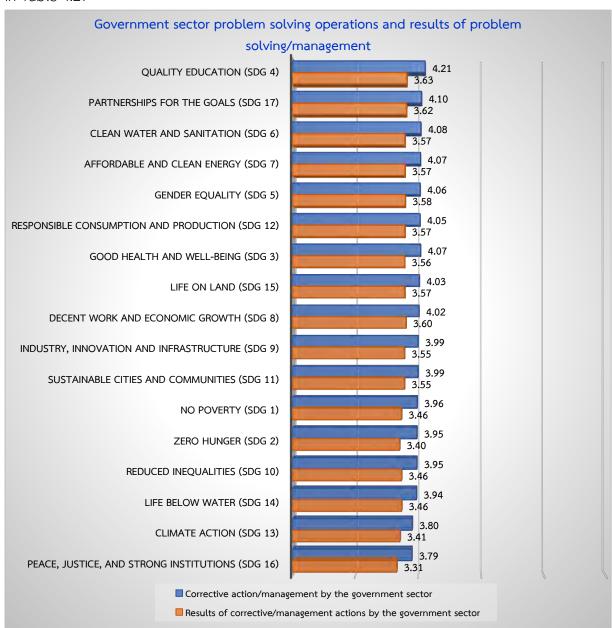
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.45, followed by hunger elimination (SDG 2), the average is 8.10. Access to clean energy for all (SDG 7), Good Health and Well-being (SDG 3), and Decent Work and Economic Growth (SDG 8) have the same average value of 8.06. Responsible Consumption and Production (SDG 12) has an average of 8.03 and Quality Education (SDG 4) has an average of 8.02.



For the government sector's implementation of problem solving, it is found that Quality Education (SDG 4) had the highest average. The average is 4.21, followed by Partnerships for the Goals (SDG 17), the average is 4.10. Clean Water and Sanitation (SDG 6) average is 4.08. Clean energy that is accessible to everyone (SDG 7) has an average value of 4.07 and Gender Equality (SDG 5) has an average value of 4.06.

As for the results of the government sector's corrective/management actions, it is found that Quality Education (SDG 4) had the highest average. The average is 3.63, followed by Partnerships for the Goals (SDG 17), the average is 3.62. Decent Work and Economic Growth (SDG 8) average is 3.60. Gender Equality (SDG 5) average is 3.58 and Clean Water and Sanitation (SDG 6), clean energy that is accessible to all (SDG 6), Responsible Consumption and Production (SDG 12), and Life on Lands (SDG 15) have the same average value of 3.57, details as shown in Table 4.27



**Table 4.27** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Pattani Province)

the government s		t need	Government operations				
	towards the		Government		Results of		
	develop	ment of	sector p	oroblem	corrective/m	anagement	
Development issues	quality	of life	solving o	perations	actio	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.45	1.109	3.96	1.395	3.46	0.967	
poverty alleviation	8.45	1.109	3.96	1.395	3.46	0.967	
SDG 2 Hunger elimination	8.10	0.858	3.95	1.496	3.40	1.009	
Developing smallholder	8.14	0.920	3.90	1.628	3.36	1.145	
farmers to promote a							
sustainable food system							
Having Good Health and	8.05	1.043	4.01	1.562	3.45	1.131	
nutrition *							
SDG 3 Have Good Health	8.06	0.993	4.07	1.522	3.56	1.082	
and Well-being							
Having good mental health	8.06	1.111	4.07	1.670	3.52	1.217	
(Mental Health)							
Road safety	8.05	1.094	4.11	1.586	3.61	1.176	
SDG 4 Quality Education	8.02	1.000	4.21	1.579	3.63	1.099	
Quality Education	8.09	1.107	4.13	1.695	3.58	1.248	
Having the skills necessary	7.95	1.115	4.32	1.706	3.69	1.221	
for a career							
SDG 5 Gender Equality	7.95	1.015	4.06	1.525	3.58	1.148	
Eliminating sexual violence	7.95	1.015	4.06	1.525	3.58	1.148	
in private and public spaces							
SDG 6 Clean Water and	7.98	0.878	4.08	1.487	3.57	1.043	
Sanitation							
Availability and access to	7.97	1.052	4.24	1.673	3.68	1.201	
clean water for drinking and							
use							
Solving water pollution	8.00	0.971	3.94	1.503	3.46	1.101	
problems *							
SDG 7 Affordable and	8.06	1.062	4.07	1.582	3.57	1.222	
Clean Energy							
Having and having universal	8.06	1.062	4.07	1.582	3.57	1.222	
access to clean energy							

	Urgen	t need	Government operations				
	towards the		Government		Results of		
	develop	ment of	sector p	oroblem	corrective/m	anagement	
Development issues		of life		perations	actio	_	
	Average	Standard	Average	Standard	Average	Standard	
	J	deviation		deviation	_	deviation	
SDG 8 Decent Work and	8.06	1.063	4.02	1.515	3.60	1.147	
Economic Growth							
Employment and access to	8.06	1.063	4.02	1.515	3.60	1.147	
good work opportunities							
SDG 9 Industry, Innovation	7.90	1.043	3.99	1.529	3.55	1.200	
and Infrastructure							
Adapting to a green economy	7.90	1.043	3.99	1.529	3.55	1.200	
(Design of infrastructure, roads							
water, electricity, buildings)*							
SDG 10 Reduced	7.98	0.976	3.95	1.666	3.46	1.215	
Inequalities							
Participation and equal	7.98	0.976	3.95	1.666	3.46	1.215	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	7.90	1.043	3.99	1.529	3.55	1.200	
and Communities							
Adapting to a green economy	7.90	1.043	3.99	1.529	3.55	1.200	
(Design of infrastructure, roads							
water, electricity, buildings)*							
SDG 12 Responsible	8.03	0.999	4.05	1.492	3.57	1.104	
Consumption and							
Production							
Waste Management (Reduce	8.03	0.999	4.05	1.492	3.57	1.104	
Reuse Recycle)							
SDG 13 Climate Action	7.94	0.868	3.80	1.415	3.41	1.069	
Solving air pollution	8.01	0.996	3.67	1.536	3.33	1.238	
problems							
Raising awareness of the	7.87	0.971	3.96	1.452	3.51	1.117	
impacts of climate change or							
global warming. (Climate							
Change)							
SDG 14 Life Below Water	8.00	0.971	3.94	1.503	3.46	1.101	

	Urgen	t need	Government operations				
	towards the		Government		Results of		
Development issues	develop	ment of	sector p	oroblem	corrective/ma	anagement	
Development issues	quality	of life	solving o	perations	actio	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
Solving water pollution	8.00	0.971	3.94	1.503	3.46	1.101	
problems *							
SDG 15 Life on Land	7.91	0.799	4.03	1.322	3.57	0.982	
Coping with and reducing	7.89	0.943	4.21	1.525	3.68	1.148	
the impact of natural							
disasters							
Participatory management of	7.94	0.936	3.89	1.291	3.48	1.026	
forests and green areas							
SDG 16 Peace, Justice and	7.83	0.988	3.79	1.275	3.31	0.908	
Strong Institutions							
Managing quality public	7.83	0.988	3.79	1.275	3.31	0.908	
services and disseminating							
public information in a							
transparent manner							
SDG 17 Partnerships for	7.94	1.037	4.10	1.496	3.62	1.079	
the Goals							
Participation in proposing	7.94	1.037	4.10	1.496	3.62	1.079	
policies for a better quality							
of life							

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

# Part 3 Guidelines for improving quality of life

As for guidelines for improving the quality of life, most of the sample agreed that social and economic projects should be created for thorough local development, with the highest percentage of 57.50 percent, followed by an effective cooperation in formulating development policies in the community, 55.25 percent and has a space to exchange local knowledge between community members and applied to the development of 43.00 percent, details as shown in Table 4.28

**Table 4.28** Number and percentage of approaches to improving quality of life (Pattani Province)

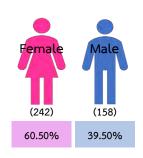
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	230	57.50
local administration.		
Appropriate local policies are developed and improved.	221	55.25
There is no corruption and the efficiency of information	172	43.00
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	164	41.00
management is provided.		
There is a space to exchange local knowledge between	153	38.25
community members and apply it to development.		
Social and economic projects are created for comprehensive	145	36.25
local development.		
Cooperation is created to create effective development policies	95	23.75
in the community.		
Roles of participation in the community are promoted equally	20	5.00
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

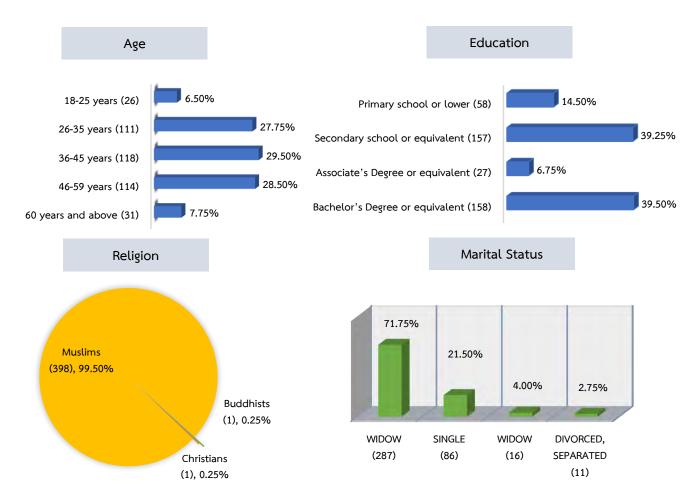
#### 2.14 Yala Province

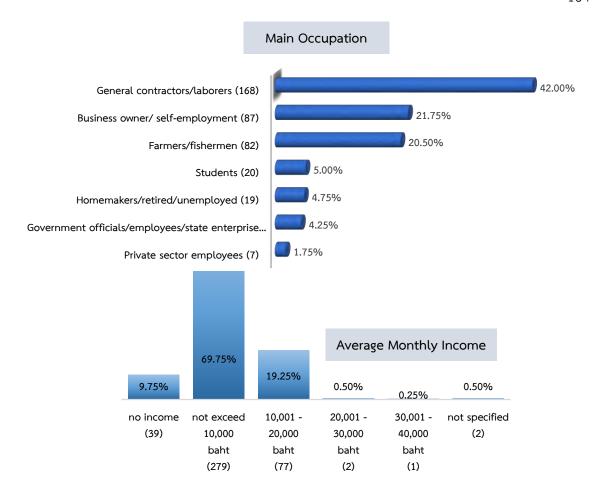
#### Part 1 Information about general characteristics

Data survey of Yala province From a total of 400 samples, 60.50% are female and 39.50% are male. Most are between 36-45 years old, 29.50 percent, followed by 46-59 years old, 28.50 percent and between 26-35 years old, 27.75 percent. The highest number of graduates is a bachelor's degree or equivalent, 39.50 percent, followed by a high school level or equivalent, 39.25 percent and primary school level or lower 14.50 percent. Most of the sample

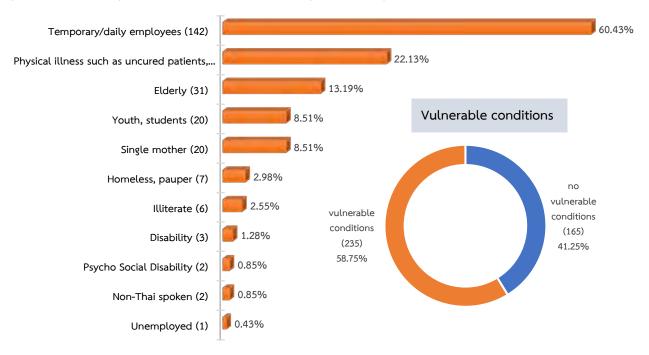


are Muslims, 99.50, and Buddhists and Christians are in equal proportions, 0.25 percent. Most of marital status of married, 71.75 percent, followed by single at 21.50 percent and 4.00 percent is widow. Their main occupation is general contractor/laborer, 42.00 percent, followed by owning their own business/self-employment, 21.75 percent and are farmers/fishermen, 20.50 percent. Most of an average monthly income not exceeding 10, 000 baht, 69.75 percent, followed by between 10,001-20,000 baht, 19.25 percent and no income at 9.75 percent respectively.



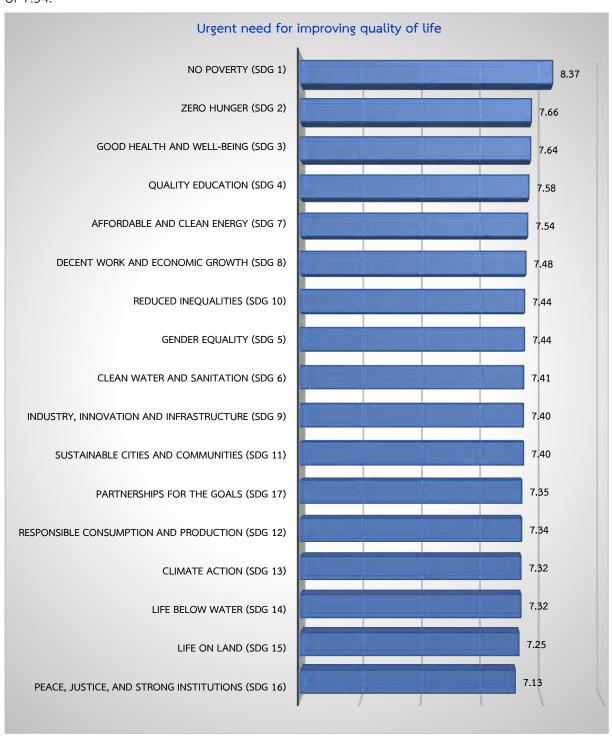


From this survey, it is found that 58.75 percent of the samples are not in vulnerable conditions and 41.25 percent are in vulnerable conditions. Among the samples with vulnerable conditions, most are temporary/daily employees at 60.43 percent, Next, the number of samples with vulnerable conditions is a condition of physical illness, such as uncured patients, emergency patients at 22.13 percent and are elderly, 13.19 percent, respectively.



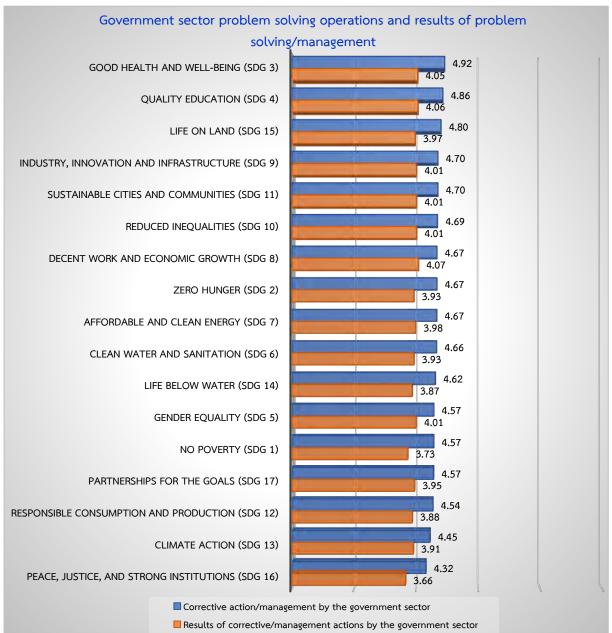
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.37, followed by hunger elimination (SDG 2), with an average of 7.66. Health and Well-being (SDG 3) average is 7.64. Quality Education (SDG 4) has an average of 7.58 and clean energy that is accessible to everyone (SDG 7) has an average of 7.54.



For the government sector's problem-solving operations, it is found that health and Well-being (SDG 3) had the highest average. The average is 4.92, followed by Quality Education (SDG 4), the average is 4.86. Life on Lands (SDG 15) average value is 4.80 Industry, Innovation and Infrastructure (SDG 9) and Sustainable Cities and Communities (SDG 11) have the same average value of 4.70 and Reduced Inequalities (SDG 10), the average is 4.69.

As for the results of corrective actions/management by the government sector, it is found that Decent Work and Economic Growth (SDG 8) had the highest averages. The average is 4.07, followed by Quality Education (SDG 4), the average is 4.06. Health and Well-being (SDG 3) average is 4.05. Infrastructure, innovation, and industry (SDG 9), Sustainable Cities and Communities (SDG 11), Reduced Inequalities (SDG 10), and Gender Equality (SDG 5) have the same average value of 4.01 and Affordable and Clean Energy (SDG 7), the average is 3.98, details as shown in Table 4.29.



**Table 4.29** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Yala Province)

J	Urgen	t need	Government operations				
	towards the		Government		Result	ts of	
	develop	ment of	sector p	oroblem	corrective/m	anagement	
Development issues	quality	of life	solving o	perations	actio	ons	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.37	1.158	4.57	1.412	3.73	1.000	
poverty alleviation	8.37	1.158	4.57	1.412	3.73	1.000	
SDG 2 Hunger elimination	7.66	0.976	4.67	1.408	3.93	1.022	
Developing smallholder	7.84	1.077	4.69	1.497	3.92	1.088	
farmers to promote a							
sustainable food system							
Having Good Health and	7.49	1.101	4.65	1.522	3.93	1.176	
nutrition *							
SDG 3 Have Good Health	7.64	1.065	4.92	1.556	4.05	1.107	
and Well-being							
Having good mental health	7.62	1.148	4.79	1.542	4.06	1.203	
(Mental Health)							
Road safety	7.65	1.207	5.06	1.796	4.03	1.268	
SDG 4 Quality Education	7.58	1.053	4.86	1.479	4.06	1.098	
Quality Education	7.66	1.129	4.73	1.511	4.03	1.183	
Having the skills necessary	7.50	1.155	4.99	1.611	4.08	1.198	
for a career							
SDG 5 Gender Equality	7.44	1.146	4.57	1.478	4.01	1.159	
Eliminating sexual violence	7.44	1.146	4.57	1.478	4.01	1.159	
in private and public spaces							
SDG 6 Clean Water and	7.41	1.043	4.66	1.352	3.93	1.002	
Sanitation							
Availability and access to	7.50	1.204	4.70	1.500	3.98	1.150	
clean water for drinking and							
use							
Solving water pollution	7.32	1.131	4.62	1.376	3.87	1.057	
problems *							
SDG 7 Affordable and	7.54	1.130	4.67	1.440	3.98	1.134	
Clean Energy							
Having and having universal	7.54	1.130	4.67	1.440	3.98	1.134	
access to clean energy							

	Urgen	t need	Government operations				
		ds the	Government sector problem		Results of		
D 1	develop	ment of			corrective/management		
Development issues	quality	of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 8 Decent Work and	7.48	1.161	4.67	1.472	4.07	1.149	
Economic Growth							
Employment and access to	7.48	1.161	4.67	1.472	4.07	1.149	
good work opportunities							
SDG 9 Industry, Innovation	7.40	1.144	4.70	1.438	4.01	1.118	
and Infrastructure							
Adapting to a green	7.40	1.144	4.70	1.438	4.01	1.118	
economy (Design of							
infrastructure, roads, water,							
electricity, buildings)*							
SDG 10 Reduced	7.44	1.179	4.69	1.454	4.01	1.113	
Inequalities							
Participation and equal	7.44	1.179	4.69	1.454	4.01	1.113	
access to opportunities for							
women and gender diverse							
people							
SDG 11 Sustainable Cities	7.40	1.144	4.70	1.438	4.01	1.118	
and Communities							
Adapting to a green	7.40	1.144	4.70	1.438	4.01	1.118	
economy (Design of							
infrastructure, roads, water,							
electricity, buildings)*							
SDG 12 Responsible	7.34	1.178	4.54	1.370	3.88	1.066	
Consumption and							
Production							
Waste Management (Reduce	7.34	1.178	4.54	1.370	3.88	1.066	
Reuse Recycle)							
SDG 13 Climate Action	7.32	1.006	4.45	1.294	3.91	0.980	
Solving air pollution	7.33	1.129	4.36	1.378	3.88	1.097	
problems							
Raising awareness of the	7.30	1.123	4.55	1.377	3.94	1.052	
impacts of climate change or							
global warming. (Climate							
Change)							

	Urgen	t need	Government operations			
	towards the		Government		Results of	
Davelonment issues	development of		sector problem		corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	7.32	1.131	4.62	1.376	3.87	1.057
Solving water pollution	7.32	1.131	4.62	1.376	3.87	1.057
problems *	_					
SDG 15 Life on Land	7.25	1.028	4.80	1.242	3.97	0.911
Coping with and reducing	7.32	1.200	5.10	1.413	4.14	0.998
the impact of natural						
disasters						
Participatory management of	7.19	1.124	4.51	1.319	3.81	1.021
forests and green areas						
SDG 16 Peace, Justice and	7.13	1.142	4.32	1.277	3.66	1.019
Strong Institutions						
Managing quality public	7.13	1.142	4.32	1.277	3.66	1.019
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	7.35	1.115	4.57	1.342	3.95	1.043
the Goals						
Participation in proposing	7.35	1.115	4.57	1.342	3.95	1.043
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agreed that social and economic projects should be created for local development as thoroughly as possible, 63.75 percent, followed by a space for exchanging local knowledge between community members and applied to development 52.25 percent and promoting the role of participation in the community equally for all genders, 46.50 percent, details as shown in Table 4.30.

**Table 4.30** Number and percentage of approaches to improving quality of life (Yala Province)

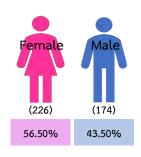
Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	255	63.75
local administration.		
Appropriate local policies are developed and improved.	209	52.25
There is no corruption and the efficiency of information	186	46.50
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	182	45.50
management is provided.		
There is a space to exchange local knowledge between	166	41.50
community members and apply it to development.		
Social and economic projects are created for comprehensive	102	25.50
local development.		
Cooperation is created to create effective development policies	71	17.75
in the community.		
Roles of participation in the community are promoted equally	29	7.25
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

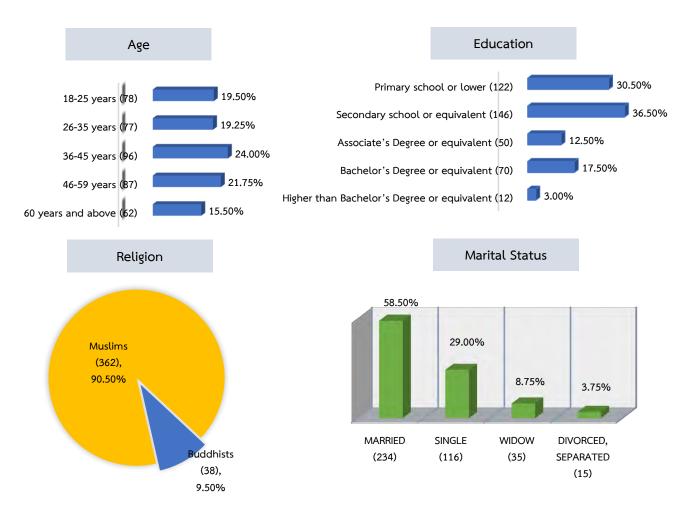
#### 2.15 Narathiwat Province

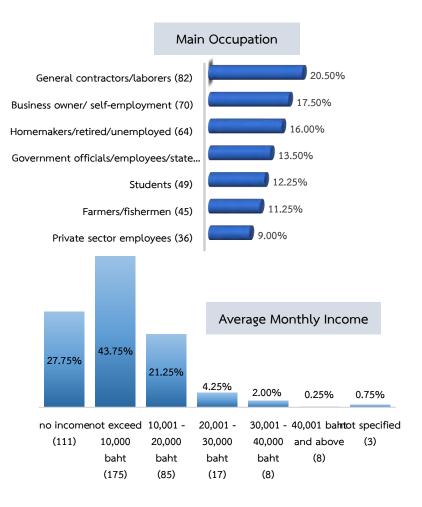
### Part 1 Information about general characteristics

Survey of Narathiwat Province data From a total of 400 samples, 56.50% are female and 43.50% are male. Most are between 36-45 years old, 24.00 percent, followed by 46-59 years old, 21.75 percent and between 18-25 years old, 19.50 percent. The highest number of graduates is at the secondary school level or equivalent, 36.50 percent, followed by the primary school level or less, 30.50 percent and bachelor's degree or equivalent, 17.50 percent. Most of the sample

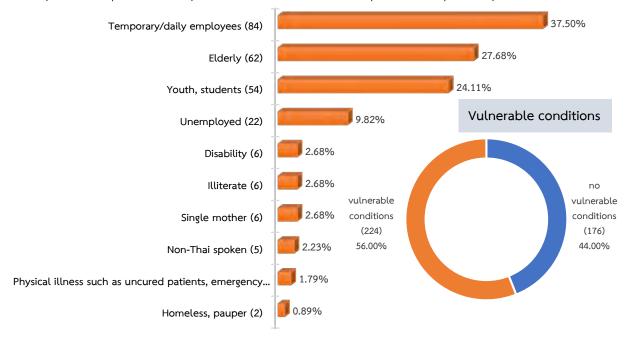


are Muslims, 90.50, and 9.50 percent are Buddhists. Most have marital status of married, 58.50 percent, followed by single at 29.00 percent, and 8.75 percent is widow. Most of their main occupation is general contractor/laborer, 20.50 percent, followed by the owner of a private business/self-employed at 17.50 percent and being a homemaker/retired/unemployed 16.00 percent. Most have the average monthly income not exceeding 10,000 baht, 43.75 percent, followed by no income, 27.75 percent, and between 10,001-20,000 baht at 21.25 percent respectively.



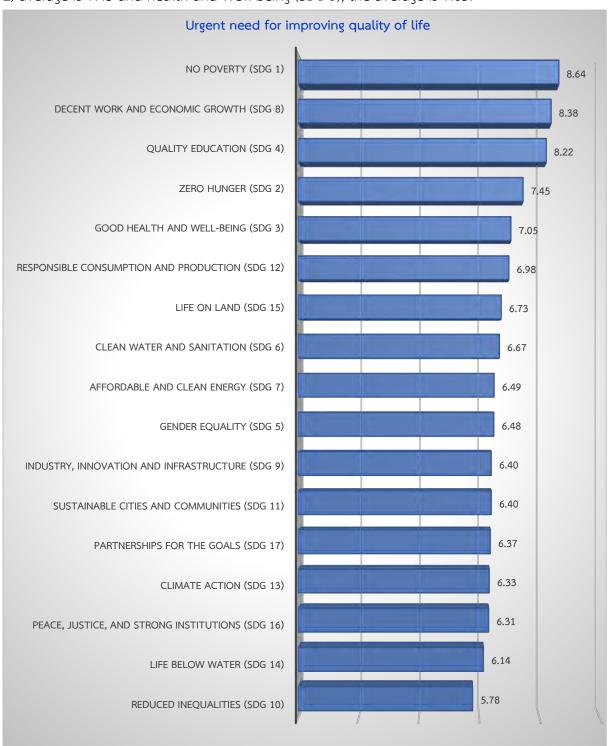


From this survey, it is found that 56.00 percent of the samples are in vulnerable conditions and 44.00 percent are not in vulnerable conditions. Among the samples with vulnerable conditions, most are temporary/daily employees, 37.50 percent, followed by the elderly at 27.68 percent and youth and students at 24.11 percent, respectively.



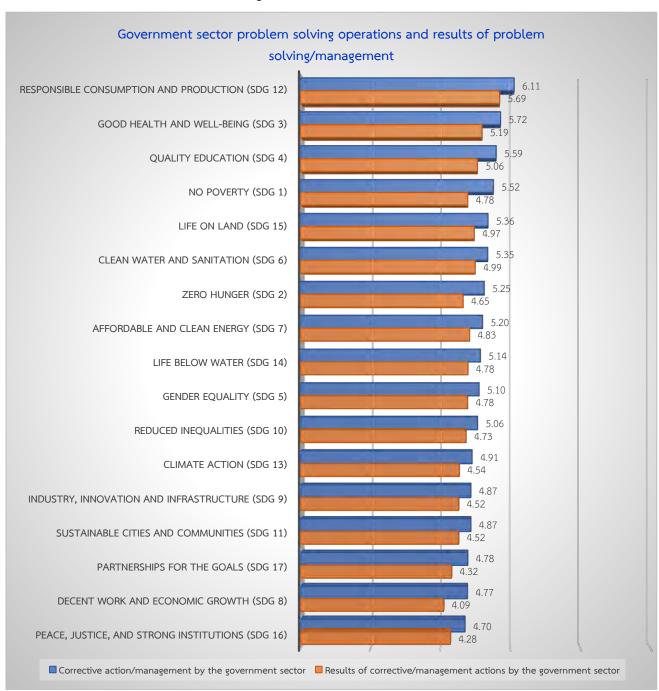
# Part 2 Opinions on the issue of improving the quality of life Average overview of Sustainable Development Goals (SDGs)

There are a total of 17 Sustainable Development Goals (SDGs). From the survey, it is found that the issue that is urgently needed to improve quality of life is No Poverty (SDG 1) with the highest average. The average is 8.64, followed by Decent Work and Economic Growth (SDG 8), the average is 8.38. Quality Education (SDG 4) average is 8.22. Hunger elimination (SDG 2) average is 7.45 and health and Well-being (SDG 3), the average is 7.05.



As for the government's implementation of problem solving, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 6.11, followed by health and Well-being (SDG 3), with an average of 5.72. Quality Education (SDG 4) with an average of 5.59. No Poverty (SDG 1) has an average of 5.52 and Life on Lands (SDG 15), the average is 5.36

As for the results of the government sector's corrective/management actions, it is found that Responsible Consumption and Production (SDG 12) had the highest average. The average is 5.69, followed by health and Well-being (SDG 3), with an average of 5.19. Quality Education (SDG 4) average is 5.06. Clean Water and Sanitation (SDG 6) average is 4.99 and Life on Lands (SDG 15), the average value is 4.97, details as shown in Table 4.31.



**Table 4.31** Mean, standard deviation of urgent needs and actions to solve problems of the government sector (Narathiwat Province)

	Urgen	t need	Government operations				
	towards the Government			Results of			
	develop	ment of	sector problem		corrective/management		
Development issues	quality	of life	solving operations		actions		
	Average	Standard	Average	Standard	Average	Standard	
		deviation		deviation		deviation	
SDG 1 Poverty eradiation	8.64	1.641	5.52	2.164	4.78	2.144	
poverty alleviation	8.64	1.641	5.52	2.164	4.78	2.144	
SDG 2 Hunger elimination	7.45	1.559	5.25	1.621	4.65	1.519	
Developing smallholder	7.72	1.951	5.18	1.914	4.39	1.806	
farmers to promote a							
sustainable food system							
Having Good Health and	7.20	1.855	5.33	1.740	4.91	1.628	
nutrition *							
SDG 3 Have Good Health	7.05	1.946	5.72	1.712	5.19	1.723	
and Well-being							
Having good mental health	6.92	2.127	5.27	1.785	4.88	1.763	
(Mental Health)							
Road safety	7.18	2.129	6.19	2.027	5.53	2.007	
SDG 4 Quality Education	8.22	1.439	5.59	1.646	5.06	1.658	
Quality Education	8.09	1.645	6.07	1.888	5.58	1.921	
Having the skills necessary	8.36	1.652	5.13	1.946	4.54	1.948	
for a career							
SDG 5 Gender Equality	6.48	2.495	5.10	1.695	4.78	1.637	
Eliminating sexual violence	6.48	2.495	5.10	1.695	4.78	1.637	
in private and public spaces							
SDG 6 Clean Water and	6.67	2.200	5.35	1.837	4.99	1.846	
Sanitation							
Availability and access to	7.19	2.120	5.59	2.142	5.24	2.204	
clean water for drinking and							
use							
Solving water pollution	6.14	2.747	5.14	1.991	4.78	1.920	
problems *							
SDG 7 Affordable and	6.49	2.340	5.20	1.791	4.83	1.724	
Clean Energy							
Having and having universal	6.49	2.340	5.20	1.791	4.83	1.724	
access to clean energy							

	Urgen	t need	Government operations			
	towards the		Government		Results of	
	development of		sector problem		corrective/management	
Development issues	T.	of life	solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
	J	deviation	J	deviation	J	deviation
SDG 8 Decent Work and	8.38	1.796	4.77	1.994	4.09	1.893
Economic Growth						
Employment and access to	8.38	1.796	4.77	1.994	4.09	1.893
good work opportunities						
SDG 9 Industry, Innovation	6.40	2.582	4.87	1.928	4.52	1.818
and Infrastructure						
Adapting to a green economy	6.40	2.582	4.87	1.928	4.52	1.818
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 10 Reduced	5.78	2.219	5.06	1.800	4.73	1.766
Inequalities						
Participation and equal	5.78	2.219	5.06	1.800	4.73	1.766
access to opportunities for						
women and gender diverse						
people						
SDG 11 Sustainable Cities	6.40	2.582	4.87	1.928	4.52	1.818
and Communities						
Adapting to a green economy	6.40	2.582	4.87	1.928	4.52	1.818
(Design of infrastructure,						
roads, water, electricity,						
buildings)*						
SDG 12 Responsible	6.98	2.349	6.11	2.121	5.69	2.232
Consumption and						
Production						
Waste Management (Reduce	6.98	2.349	6.11	2.121	5.69	2.232
Reuse Recycle)						
SDG 13 Climate Action	6.33	2.519	4.91	1.821	4.54	1.706
Solving air pollution	6.27	2.648	4.87	1.903	4.52	1.828
problems						
Raising awareness of the	6.41	2.690	4.99	1.991	4.68	1.875
impacts of climate change or						
global warming. (Climate						
Change)						

	Urgen	t need		Governm	ent operations	
	towards the		Government		Results of	
Davalanment issues	development of		sector problem		corrective/management	
Development issues	quality of life		solving operations		actions	
	Average	Standard	Average	Standard	Average	Standard
		deviation		deviation		deviation
SDG 14 Life Below Water	6.14	2.747	5.14	1.991	4.78	1.920
Solving water pollution	6.14	2.747	5.14	1.991	4.78	1.920
problems *						
SDG 15 Life on Land	6.73	2.095	5.36	1.602	4.97	1.659
Coping with and reducing	7.25	1.889	5.66	1.785	5.18	1.887
the impact of natural						
disasters						
Participatory management of	6.22	2.662	5.10	1.999	4.83	1.937
forests and green areas						
SDG 16 Peace, Justice and	6.31	2.834	4.70	1.982	4.28	1.893
Strong Institutions						
Managing quality public	6.31	2.834	4.70	1.982	4.28	1.893
services and disseminating						
public information in a						
transparent manner						
SDG 17 Partnerships for	6.37	2.355	4.78	1.903	4.32	1.752
the Goals						
Participation in proposing	6.37	2.355	4.78	1.903	4.32	1.752
policies for a better quality						
of life						

**Note:** Calculate the average from a score of 1 - 10: necessary/implemented/effective. (Scores range from 0-10 points.)

## Part 3 Guidelines for improving quality of life

For guidelines for improving the quality of life, most of the sample agree that appropriate local policies should be developed and improved, with the highest number of 61.50 percent, followed by no corruption and increased efficiency of information disclosure for transparent administration, 53.50 percent and social and economic projects have been prepared for thorough local development, 49.25 percent, details as shown in Table 4.32.

**Table 4.32** Number and percentage of approaches to improving quality of life (Narathiwat Province)

Guidelines for improving quality of life	Samples	Percentage
There is a decentralization of capital resources and authority in	246	61.50
local administration.		
Appropriate local policies are developed and improved.	214	53.50
There is no corruption and the efficiency of information	197	49.25
disclosure is increased for transparent management.		
Knowledge about environmental conservation and Waste	168	42.00
management is provided.		
There is a space to exchange local knowledge between	123	30.75
community members and apply it to development.		
Social and economic projects are created for comprehensive	117	29.25
local development.		
Cooperation is created to create effective development policies	49	12.25
in the community.		
Roles of participation in the community are promoted equally	41	10.25
for all genders.		

**Note:** Respondents can choose 3 answers, with a sample of 400 respondents.

# Chapter 5 Conclusion and Suggestion

The project to survey data on the status of the Sustainable Development Goals (SDGs) in Thailand overall aims to survey public opinions on the state of the Sustainable Development Goals in the targeted provinces consisting of 4 regions and 15 provinces as follows: Northern region includes 1) Chiang Rai Province 2) Chiang Mai Province 3) Mae Hong Son Province 4) Tak Province. Northeastern region includes 5) Udon Thani Province, 6) Nakhon Ratchasima Province, 7) Ubon Ratchathani Province. Central region includes 8) Bangkok Metropolitan Region 9) Phetchaburi Province, and the Southern region includes 10) Phuket Province, 11) Surat Thani Province, 12) Songkhla Province, 13) Pattani Province, 14) Yala Province, and 15) Narathiwat Province.

This survey project is a Survey Research. The research team uses a Multi-Multi-Stage Stratified Random Sampling method and the total sample size is 6,000 people. Details of the study results and study methods appear in the previous chapter. In this chapter, the research team presents a summary of the overall study results and a summary of the study results for each province, divided into 3 sections: Part 1: Information about general characteristics, namely gender, age, social disadvantage, religion, marital status, education, occupation, and income. Part 2: Various development issues consist of 2 parts. Part one: urgent need for improving quality of life It is rated from not necessary to most necessary (0-10 points). The second part: There are 2 aspects of the government sector's operations: The government sector has corrective/management actions ranging from no action to very good action (0-10 points) and results of corrective/management actions from ineffective to most effective (0-10 points). And part 3: Guidelines or conditions that will make quality of life better. The sample are allowed to choose as many guidelines or conditions as possible, the 3 most important items consist of 8 sub-items: 1) Appropriate local policies are developed and improved, 2) Social and economic projects are created for comprehensive local development, 3) Roles of participation in the community are promoted equally for all genders, 4) Cooperation is created to create effective development policies in the community, 5) Decentralization of capital resources and local administrative powers, 6) A space for exchanging local knowledge between community members and applying it to development. 7) Providing knowledge about environmental conservation and waste management, and 8) No corruption and the efficiency of information disclosure is increased for transparent management. In addition, the research team will present the results, discuss the results and present recommendations, respectively, with the following details:

#### 5.1 Summary of Study Results

#### 5.1.1 Summary of overall study results

5.1.1.1 Information about general characteristics It is found that the majority of the sample is female, 54.78 percent. Most are between 36-45 years, 25.55 percent. 36.27 percent has secondary school education or equivalent. Most are Buddhists, 76.43 percent. 59.95 percent are married. Their main occupation is business owner/self-employment 23.12 percent, and 31.97 percent have an average monthly income of 10,001-20,000 baht. Most do not have vulnerable condition 50.03 percent. However, when considering the sample group with vulnerable condition, it is found that the majority are temporary/daily employees, 34.99 percent.

5.1.1.2 Quality of life development It is found that the majority of The sample group has opinions on quality of life development issues as follows: 1) The top three urgent needs for improving quality of life are: No Poverty (SDG 1) with the average of 8.94, followed by Quality Education (SDG 4) with the average of 8.50, and Decent Work and Economic Growth (SDG 8) with the average of 8.35, 2) Government Sector Operations include the top three issues for solving problems in the government sector are: Responsible Consumption and Production (SDG 12) with the average of 5.84, followed by Quality Education (SDG 4) with the average of 5.71, and Clean Water and Sanitation (SDG 6) with the average of 5.70, 3) The top three results of corrective/management actions by the government sector are: Responsible Consumption and Production (SDG 12) with the highest average of 5.15, followed by Life on Land (SDG 15) with the average of 5.00, and Clean Water and Sanitation (SDG 6) with the average of 4.99.

5.1.1.3 The gap between the needs of the people and actions the government is taking to solve. When considering the urgent need to develop people's quality of life and the government's implementation of problem solving, it is found that there is a gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) has gap scores of 3.52, 2) Zero Hunger (SDG 2) has gap scores of 2.87, 3) Decent Work and Economic Growth (SDG 8) has gap scores of 2.84, 4) Quality Education (SDG 4) has gap scores of 2.79, and 5) Good Health and Well-being (SDG 3) has gap scores of 2.73 (details as shown in Table 5.1).

**Table 5.1** The gap between the needs of the people and actions the government is taking to solve

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.94	5.42	3.52
Zero Hunger (SDG 2)	8.32	5.45	2.87
Decent Work and Economic Growth (SDG 8)	8.35	5.51	2.84
Quality Education (SDG 4)	8.50	5.71	2.79
Good Health and Well-being (SDG 3)	8.34	5.61	2.73

5.1.1.4 Guidelines or conditions that will improve the quality of life. It is found that the majority of the sample group has opinions on guidelines or conditions that would improve the quality of life. The top three are: Developing and improving appropriate local policies 47.23 percent, followed by no corruption and increased efficiency of information disclosure for transparent administration, 44.50 percent, and creating social and economic projects for comprehensive local development, 43.93 percent.

### 5.1.2 Summary of study results by target province 5.1.2.1 Chiang Rai Province

1. Information about general characteristics. It is found that the majority of the sample is male, 52.75 percent. Most are between 46-59 years, 26.00 percent. Most have the highest education of Bachelor's Degree or equivalent, 36.50 percent. Most are Buddhists, 93.75 percent. 68.50 percent are married. The most main occupation is business owner / self-employment, 22.75 percent. The average monthly income is 10,001-20,000 baht, 32.50 percent. Most of the sample group are in a vulnerable condition, 52.25 percent of the sample group that are in a vulnerable condition, they are ethnic minorities, 45.45 percent.

2. Quality of Life Development. It is found that the majority of the sample group has opinions on quality of life development issues as follows: 1) The top three urgent needs for improving quality of life are: No Poverty (SDG 1) with the average of 9.07, and Responsible Consumption and Production (SDG 12) with the average of 9.06.

and 2) Government sector operations include the top three issues for solving problems in the government sector are: Quality Education (SDG 4) with the average of 6.22, followed by Life on Land (SDG 15) with the average of 6.18, and Clean Water and Sanitation (SDG 6) with the average of 6.16. The top three results of corrective/management actions by the government sector are: Decent Work and Economic Growth (SDG 8) with the average of 5.20, followed by Quality Education (SDG 4) with the average of 5.15, and No Poverty (SDG 1) with the average of 5.14.

**3.** The gap between the needs of the people and actions the government is taking to solve. When considering the urgent need for improving the quality of life of the people and the government's solutions to problems, it is found that there is a gap between the needs of the people and what the government has taken to solve are as follows: 1) Climate Action (SDG 13) with gap scores of 3.11, 2) No Poverty (SDG 1) with gap scores of 3.09, 3) Decent Work and Economic Growth (SDG 8) with gap scores of 2.97, 4) Partnerships for the Goals (SDG 17) with gap scores of 2.97, and 5) Responsible Consumption and Production (SDG 12) with gap scores of 2.96 (details as shown in table 5.2).

**Table 5.2** The gap between the needs of the people and actions the government is taking to solve of Chiang Rai Province.

Sustainable Development Goals (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
Climate Action (SDG 13)	9.05	5.94	3.11
No Poverty (SDG 1)	9.19	6.10	3.09
Decent Work and Economic Growth (SDG 8)	9.07	6.10	2.97
Partnerships for the Goals (SDG 17)	8.95	5.98	2.97
Responsible Consumption and Production (SDG 12)	9.06	6.10	2.96

Sources: Research team

# 4. Guidelines or conditions that will improve the quality of life. It is found that the majority of the sample group has top three opinions towards guidelines or conditions that will improve the quality of life which are: Distribution of capital resources and local administrative powers 54.00 percent, followed by developing and improving

appropriate local policies 43.50 percent, and no corruption and increases the efficiency of information disclosure for transparent management 41.25 percent.

#### 5.1.2.2 Chiang Mai Province

- 1. Information about general characteristics. it is found that the majority of the sample are male, 51.25 percent. Most are between 26-35 years, 24.75 percent. Most have the highest education of Bachelor's Degree or equivalent, 41.25 percent. 99.75 percent are Buddhists. Most have the marital status of married, 56.75 percent. Their main occupation is business owner/self-employment, 22.50 percent. Their average monthly income is 10,001-20,000 baht 31.75 percent. Most of the sample group are in a vulnerable condition, 59.75 percent. However, when considering a sample group that is in a vulnerable condition, it is found that most are elderly 36.65 percent.
- 2. Quality of life development It is found that the majority of The sample group has opinions towards quality of life development as follows: 1) Urgent need for improving quality of life, top three are No Poverty (SDG 1) with the average of 9.15, followed by Climate Action (SDG 13) with the average of 9.11, Responsible Consumption and Production (SDG 12) with the average of 9.08, and 2) Government sector operations include government sector problem solving operations, top three are Quality Education (SDG 4) with the average of 6.07, followed by Clean Water and Sanitation (SDG 6) with the average of 6.05, Life on Land (SDG 15) with the average of 6.03, and Results of corrective/management actions by the government sector, top three are Quality Education (SDG 4) with the average of 5.57, followed by Life on Land (SDG 15) with the average of 5.56, Decent Work and Economic Growth (SDG 8) with the average of 5.55.
- 3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and Government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) Climate Action (SDG 13) with gap scores of 3.44, 2) Responsible Consumption and Production (SDG 12) with gap scores of 3.27, 3) No Poverty (SDG 1) with gap scores of 3.22, 4) Peace, Justice, and Strong Institutions (SDG 16) with gap scores of 3.16, and 5) Partnerships for the Goals (SDG 17) with gap scores of 3.06 (details as shown in table5.3).

**Table 5.3** The gap between the needs of the people and actions the government is taking to solve of Chiang Mai Province.

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
Climate Action (SDG 13)	9.11	5.67	3.44
Responsible Consumption and Production (SDG 12)	9.08	5.81	3.27
No Poverty (SDG 1)	9.15	5.93	3.22
Peace, Justice, and Strong Institutions (SDG 16)	8.87	5.71	3.16
Partnerships for the Goals (SDG 17)	8.89	5.83	3.06

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are distribution of capital resources and local administrative powers 61.00 percent, followed by developing and improving appropriate local policies 47.50 percent, and no corruption and increases the efficiency of information disclosure for transparent management 44.25 percent.

#### 5.1.2.3 Mae Hong Son Province

1. Information about general characteristics. It is found that the majority of the sample are female, 53.75 percent. Most are between 46-59 years, 31.25 percent. Most have the highest education of secondary school or equivalent, 34.75 percent. 99.50 are Buddhists. Most have the marital status of married, 69.75 percent. Their main occupation is business owner/self-employment, 24.25 percent. Their average monthly income is 10,001-20,000 baht, 30.00 percent. Most of the sample group are in a vulnerable condition, 56.00 percent. Among the samples are those who are in a vulnerable condition, it is found that most are ethnic minorities, 68.30 percent.

2. Quality of life development. It is found that the majority of The sample group has opinions towardsquality of life development as follows: 1) urgent need for improving quality of life, top three are No Poverty (SDG 1) with the average of 9.16, followed by Climate Action (SDG 13) with the average of 9.01, and Quality Education (SDG 4)

with the average of 8.98, and **2)** Government sector operations include Government sector problem solving operations, top three are Responsible Consumption and Production (SDG 12) with the average of 6.04, followed by Clean Water and Sanitation (SDG 6) with the average of 6.01, Quality Education (SDG 4) with the average of 6.00, and Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 5.59, followed by Life on Land (SDG 15) with the average of 5.47, Life Below Water (SDG 14) with the average of 5.43.

3. The gap between the needs of the people and actions the government is taking to solve. When considering Urgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) Climate Action (SDG 13) with gap scores of 3.42, 2) No Poverty (SDG 1) with gap scores of 3.41, 3) Gender Equality (SDG 5) with gap scores of 3.18, 4) Zero Hunger (SDG 2) with gap scores of 3.16, and 5) Decent Work and Economic Growth (SDG 8) with gap scores of 3.10 (details as shown in table 5.4).

**Table 5.4** The gap between the needs of the people and actions the government is taking to solve of Mae Hong Son Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
Climate Action (SDG 13)	9.01	5.59	3.42
No Poverty (SDG 1)	9.16	5.75	3.41
Gender Equality (SDG 5)	8.78	5.60	3.18
Zero Hunger (SDG 2)	8.82	5.66	3.16
Decent Work and Economic Growth (SDG 8)	8.90	5.80	3.10

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are Distribution of capital resources and local administrative powers, 64.50 percent, followed by Developing and improving appropriate local policies, 52.00percent, and

no corruption and increases the efficiency of information disclosure for transparent management, 46.25 percent.

#### 5.1.2.4 Tak Province

- 1. Information about general characteristics. It is found that the majority of the sample are female, 61.25 percent. Most are between 46-59 years, 27.00 percent. Most have the highest education of secondary school or equivalent, 28.00 percent. 93.00 percent are Buddhists. Most have the marital status of married, 67.75 percent. Their main occupation is business owner/self-employment, 24.75 percent. Their average monthly income is 10,001-20,000 baht, 35.50 percent. Most of the sample group are in a vulnerable condition, 54.25 percent. Among the samples who are in a vulnerable condition, it is found that most are elderly, 33.18 percent.
- 2. Quality of life development. It is found that the majority of The sample group has opinions towards quality of life development as follows: 1) Urgent need for improving quality of life, top three are No Poverty (SDG 1) with the average of 9.15, followed by Zero Hunger (SDG 2) with the average of 8.88, Quality Education (SDG 4) with the average of 8.83, and 2) Government sector operations include government sector problem solving operations, top three are Clean Water and Sanitation (SDG 6) with the average of 6.12, followed by Responsible Consumption and Production (SDG 12) with the average of 6.09, Life on Land (SDG 15) with the average of 6.07, and 3) Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 5.70, followed by Life on Land (SDG 15) with the average of 5.68, Affordable and Clean Energy (SDG 7) with the average of 5.65.
- 3. The gap between the needs of the people and actions the government is taking to solve. When considering rrgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 3.38, 2) Zero Hunger (SDG 2) with gap scores of 3.00, 3) Good Health and Well-being (SDG 3) with gap scores of 2.87, 4) Quality Education (SDG 4) with gap scores of 2.77, and 5) Peace, Justice, and Strong Institutions (SDG 16) with gap scores of 2.77 (details as shown in table 5.5).

**Table 5.5** The gap between the needs of the people and actions the government is taking to solve of Tak Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	9.15	5.77	3.38
Zero Hunger (SDG 2)	8.88	5.88	3.00
Good Health and Well-being (SDG 3)	8.81	5.94	2.87
Quality Education (SDG 4)	8.83	6.06	2.77
Peace, Justice, and Strong Institutions (SDG 16)	8.62	5.85	2.77

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on Guidelines or conditions that will improve the quality of life, top three are Distribution of capital resources and local administrative powers, 65.75 percent, followed by developing and improving appropriate local policies, 53.50percent and no corruption and increases the efficiency of information disclosure for transparent management, 53.25 percent.

#### 5.1.2.5 Bangkok Province

1. Information about general characteristics. It is found that the majority of the sample are male, 50.50 percent. Most are between 36-45 years, 28.50 percent. Most have the highest education of secondary school or equivalent, 35.00 percent. 95.00 percent are Buddhists. Most have the marital status of married, 54.50 percent. Their main occupation is business owner/self-employment, 31.25percent. Their average monthly income is 10,001-20,000 baht, 44.75 percent, and Most of them are in a vulnerable condition and not in a vulnerable condition in equal proportions, 50.00 percent. Among the samples who are in a vulnerable condition, most are elderly, 43.50 percent.

2. Quality of life development. It is found that The sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life include No Poverty (SDG 1) with the average of 9.30, followed by Good Health

and Well-being (SDG 3) with the average of 8.70 Quality Education (SDG 4) with the average of 8.53 and 2) Government sector operations include government sector problem solving operations, top three are Responsible Consumption and Production (SDG 12) with the average of 6.40, followed by Life Below Water (SDG 14) with the average of 6.18. Clean Water and Sanitation (SDG 6) with the average of 5.99, and 3) Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 5.80, followed by Life Below Water (SDG 14) with the average of 5.57, Clean Water and Sanitation (SDG 6) with the average of 5.36.

3. The gap between the needs of the people and actions the government is taking to solve. When considering Urgent need for improving quality of people's life and Government sector problem solving operations it is found that The gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 3.73, 2) Climate Action (SDG 13) with gap scores of 2.87, 3) Good Health and Well-being (SDG 3) with gap scores of 2.82, 4) Decent Work and Economic Growth (SDG 8) with gap scores of 2.69, and 5) Quality Education (SDG 4) with gap scores of 2.64 (details as shown in table 5.6).

**Table 5.6** The gap between the needs of the people and actions the government is taking to solve of Bangkok Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	9.30	5.57	3.73
Climate Action (SDG 13)	8.42	5.55	2.87
Good Health and Well-being (SDG 3)	8.70	5.88	2.82
Decent Work and Economic Growth (SDG 8)	8.29	5.60	2.69
Quality Education (SDG 4)	8.53	5.89	2.64

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on Guidelines or conditions that will improve the quality of life, top three are Developing and improving appropriate local policies, 49.75 percent, followed by social and economic projects are created for comprehensive local development, 43.00 percent, and no corruption and increases the efficiency of information disclosure for transparent management, 41.00 percent.

#### 5.1.2.6 Petchaburi Province

- 1. Information about general characteristics it is found that the majority of the sample are female, 56.00 percent. Most are between 36-45 years, 28.50 percent. Most have the highest education of secondary school or equivalent, 41.25 percent. 97.75 percent are Buddhists. Most have the marital status of married, 64.25 percent. Main occupation of general contractors / laborers is 25.25 percent. Their average monthly income is 10,001-20,000 baht, 38.25 percent. Most of the sample group are not in a vulnerable condition, 50.25 percent. However, when considering the sample group who is in a vulnerable condition, it is found that most are elderly, 45.23 percent.
- 2. Quality of life development. It is found that The sample group has opinions on quality of life development as follows: (1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 9.28, followed by Good Health and Well-being (SDG 3) with the average of 8.61, and Quality Education (SDG 4) with the average of 8.60, and (2) Government sector operations include government sector problem solving operations, top three are Responsible Consumption and Production (SDG 12) with the average of 5.21, followed by Quality Education (SDG 4) with the average of 5.16, Good Health and Well-being (SDG 3) with the average of 4.93, and 3) Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 4.34, followed by Quality Education (SDG 4) with the average of 4.18 Life Below Water (SDG 14) with the average of 4.14.
- 3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, it is found that The gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 4.48, 2) Zero Hunger (SDG 2) with gap scores of 3.77, 3) Good Health and Well-being (SDG 3) with gap scores of 3.68, 4) Quality Education (SDG 4) with gap scores of 3.44, and 5) Gender Equality (SDG 5) with gap scores of 3.37 (details as shown in table5.7).

**Table 5.7** The gap between the needs of the people and actions the government is taking to solve of Petchaburi Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	9.28	4.80	4.48
Zero Hunger (SDG 2)	8.56	4.79	3.77
Good Health and Well-being (SDG 3)	8.61	4.93	3.68
Quality Education (SDG 4)	8.60	5.16	3.44
Gender Equality (SDG 5)	7.97	4.60	3.37

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are no corruption and increase the efficiency of information disclosure for transparent management 50.25 percent, followed by providing knowledge about environmental conservation and waste management, 48.25 percent, and no corruption and a space to exchange local knowledge between community members and applied to development, 40.50 percent.

#### 5.1.2.7 Udon Thani Province

1. Information about general characteristics. It is found that the majority of the sample are female, 56.75 percent. Most are between 46-59 years, 25.00 percent. Most have the highest education of secondary school or equivalent, 32.75 percent. 99.75 percent are buddhists. Most have the marital status of married, 46.50 percent. Their main occupation is government officials/employees/state enterprise employees, 40.25 percent. Their average monthly income is 10,001-20,000 baht, 29.00 percent. Most of the sample group are not in a vulnerable condition, 62.00 percent. However, when considering the sample group who is in a vulnerable condition, it is found that most are elderly, 32.24 percent.

2. Quality of life development. it is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.95, followed by Quality Education (SDG 4) with the average of 8.63, Partnerships for the Goals (SDG 17) with the average of 8.51 and 2) Government sector operations include Government sector

problem solving operations, top three are Responsible Consumption and Production (SDG 12) with the average of 7.29, followed by Quality Education (SDG 4) with the average of 7.15, Clean Water and Sanitation (SDG 6) with the average of 7.10 and 3) Results of corrective/management actions by the government sector, top three are Quality Education (SDG 4) with the average of 6.48, followed by Gender Equality (SDG 5) with the average of 6.42, Good Health and Well-being (SDG 3) with the average of 6.40.

3. The gap between the needs of the people and actions the government is taking to solve. When considering rrgent need for improving quality of people's life and government sector problem solving operations, it is found that The gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 1.87, 2) Partnerships for the Goals (SDG 17) with gap scores of 1.57, 3) Peace, Justice, and Strong Institutions (SDG 16) with gap scores of 1.53, 4) Climate Action (SDG 13) with gap scores of 1.52, and 5) Quality Education (SDG 4) with gap scores of 1.48 (details as shown in table 5.8).

**Table 5.8** The gap between the needs of the people and actions the government is taking to solve of Udon Thani Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.95	7.08	1.87
Partnerships for the Goals (SDG 17)	8.51	6.94	1.57
Peace, Justice, and Strong Institutions (SDG 16)	8.36	6.83	1.53
Climate Action (SDG 13)	8.43	6.91	1.52
Quality Education (SDG 4)	8.63	7.15	1.48

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are Developing and improving appropriate local policies, 56.75 percent, followed by no corruption and increases the efficiency of information disclosure for

transparent management, 46.00 percent, and social and economic projects are created for comprehensive local development, 38.25 percent.

#### 5.1.2.8 Nakhon Ratchasima Province

- 1. Information about general characteristics. It is found that the majority of the sample are female, 50.25 percent. Most are between 36-45 years, 27.00 percent. Most have the highest education of secondary school or equivalent, 33.25 percent. 99.25 percent are buddhists. Most have the marital status of married, 61.75 percent. Their main occupation is farmers/ fishermen, 20.00percent. Their average monthly income does not exceed 10,000 baht, 35.00 percent. Most of the sample group are in a vulnerable condition, 52.00percent. Among the samples who is in a vulnerable condition, it is found that most are elderly, 48.08 percent.
- 2. Quality of life development. It is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 9.54, followed by Zero Hunger (SDG 2) with the average of 9.00, Quality Education (SDG 4) with the average of 8.76, and 2) Government sector operations include government sector problem solving operations, top three are Clean Water and Sanitation (SDG 6) with the average of 5.73, followed by Life on Land (SDG 15) with the average of 5.69, Quality Education (SDG 4) with the average of 5.63, and 3) Results of corrective/management actions by the government sector, top three are Reduced Inequalities (SDG 10) with the average of 4.88, followed by Clean Water and Sanitation (SDG 6) with the average of 4.87, Life Below Water (SDG 14) with the average of 4.86.
- 3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 4.57, 2) Zero Hunger (SDG 2) with gap scores of 3.87, 3) Good Health and Well-being (SDG 3) with gap scores of 3.15, 4) Quality Education (SDG 4) with gap scores of 3.13, and 5) Decent Work and Economic Growth (SDG 8) with gap scores of 3.04 (details as shown in table 5.9).

**Table 5.9** The gap between the needs of the people and actions the government is taking to solve of Nakhon Ratchasima Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	9.54	4.97	4.57
Zero Hunger (SDG 2)	9.00	5.13	3.87
Good Health and Well-being (SDG 3)	8.59	5.44	3.15
Quality Education (SDG 4)	8.76	5.63	3.13
Decent Work and Economic Growth (SDG 8)	8.50	5.46	3.04

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are Developing and improving appropriate local policies 56.00 percent, followed by social and economic projects are created for comprehensive local development, 54.00 percent, and the role of participation in the community is promoted equally for all genders, 42.75 percent.

#### 5.1.2.9 Ubon Ratchathani Province

1. Information about general characteristics it is found that the majority of the sample are female, 51.50 percent. Most are between 36-45 years, 29.75 percent. Most have the highest education of Associate's Degree or equivalent, 40.00 percent. 96.75 percent are Buddhists. Most have the marital status of married, 51.75 percent. Their main occupation is business owner/self-employment, 28.50 percent. Their average monthly income does not exceed 10,000 baht, 47.25 percent. Most of the sample group are in a vulnerable condition, 50.25 percent. Among the samples who are in a vulnerable condition, it is found that most are elderly, 51.24 percent.

2. Quality of life development. It is found that The sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.97, followed by Quality

Education (SDG 4) with the average of 8.87, Good Health and Well-being (SDG 3) with the average of 8.66, and (2) Government sector operations include government sector problem solving operations, top three are Life on Land (SDG 15) with the average of 6.14, followed by Responsible Consumption and Production (SDG 12) with the average of 6.13, Quality Education (SDG 4) with the average of 5.98, and 3) Results of corrective/management actions by the government sector, top three are Life on Land (SDG 15) and Responsible Consumption and Production (SDG 12) with the average of 5.41, followed by Decent Work and Economic Growth (SDG 8), and Peace, Justice, and Strong Institutions (SDG 16) with the same average of 5.29.

3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 3.60, 2) Zero Hunger (SDG 2) with gap scores of 2.96, 3) Quality Education (SDG 4) with gap scores of 2.89, 4) Good Health and Well-being (SDG 3) with gap scores of 2.82, and 5) Clean Water and Sanitation (SDG 6) with gap scores of 2.74 (details as shown in table 5.10).

**Table 5.10** The gap between the needs of the people and actions the government is taking to solve of Ubon Ratchathani Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.97	5.37	3.60
Zero Hunger (SDG 2)	8.50	5.54	2.96
Quality Education (SDG 4)	8.87	5.98	2.89
Good Health and Well-being (SDG 3)	8.66	5.84	2.82
Clean Water and Sanitation (SDG 6)	8.63	5.89	2.74

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are cooperation is created to create effective development policies in the community, 51.00 percent, followed by the role of participation in the community is promoted equally for all genders, 47.50 percent, and distribution of capital resources and local administrative powers, 47.25 percent.

#### 5.1.2.10 Surat Thani Province

- 1. Information about general characteristics. It is found that the majority of the sample are female, 59.25 percent. Most are between 36-45 years, 35.75 percent. Most have the highest education of Bachelor's Degree or equivalent, 39.25 percent. 96.50 percent are Buddhists. Most have the marital status of married, 54.50 percent. Their main occupation is business owner/self-employment, 38.00 percent. Their average monthly income is 10,001-20,000 baht, 54.25 percent. Most of the sample group are not in a vulnerable condition, 78.25 percent. However, when considering the sample group who are in a vulnerable condition, it is found that most are temporary / daily employees, 44.83 percent.
- 2. Quality of life development it is found that The sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 9.34, followed by Quality Education (SDG 4) with the average of 9.02, Decent Work and Economic Growth (SDG 8) with the average of 9.01, and 2) Government sector operations include Government sector problem solving operations, top three are Clean Water and Sanitation (SDG 6) with the average of 6.95, followed by Quality Education (SDG 4) with the average of 6.94, Good Health and Well-being (SDG 3) with the average of 6.87, and 3) Results of corrective/management actions by the government sector, top three are Good Health and Well-being (SDG 3) with the average of 5.96, followed by Clean Water and Sanitation (SDG 6), Quality Education (SDG 4), and Reduced Inequalities (SDG 10) with the same average of 5.95.
- 3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and Government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 2.79, 2) Decent Work and Economic Growth (SDG 8) with gap scores of 2.40, 3) Affordable and Clean Energy (SDG 7) with gap scores of 2.35, 4) Partnerships for the Goals (SDG 17) with gap scores of 2.28, and 5) Zero Hunger (SDG 2) with gap scores of 2.22 (details as shown in table 5.11).

**Table 5.11** The gap between the needs of the people and actions the government is taking to solve of Surat Thani Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	9.34	6.55	2.79
Decent Work and Economic Growth (SDG 8)	9.01	6.61	2.40
Affordable and Clean Energy (SDG 7)	8.99	6.64	2.35
Partnerships for the Goals (SDG 17)	8.86	6.58	2.28
Zero Hunger (SDG 2)	8.93	6.71	2.22

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are developing and improving appropriate local policies, 64.25 percent, followed by no corruption and increases the efficiency of information disclosure for transparent management, 52.75percent, and providing knowledge about environmental conservation and waste management, 46.25 percent.

#### 5.1.2.11 Phuket Province

1. Information about general characteristics. It is found that the majority of the sample are female, 55.00 percent. Most are between 46-59 years, 24.75 percent. Most have the highest education of secondary school or equivalent, 43.50 percent. 88.00 percent are Buddhists. Most have the marital status of married, 52.00 percent. Their main occupation is business owner/self-employment, 26.50 percent. Their average monthly income is 10,001-20,000 baht, 38.25 percent. Most of the sample group are not in a vulnerable condition, 51.50 percent. However, when considering the sample group who are in a vulnerable condition, it is found that most are temporary / daily employees, 45.36 percent.

2. Quality of life development. It is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.10, followed by Quality

Education (SDG 4) with the average of 7.48, Decent Work and Economic Growth (SDG 8) with the average of 7.36, and 2) Government sector operations include Government sector problem solving operations, top three are Responsible Consumption and Production (SDG 12) with the average of 5.75, followed by Gender Equality (SDG 5) with the average of 5.70, Life on Land (SDG 15) with the average of 5.40, and 3) Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 4.66, followed by Gender Equality (SDG 5) with the average of 4.62, Clean Water and Sanitation (SDG 6) with the average of 4.32.

3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 3.42, 2) Quality Education (SDG 4) with gap scores of 2.48, 3) Zero Hunger (SDG 2) with gap scores of 2.26, 4) Decent Work and Economic Growth (SDG 8) with gap scores of 2.25, and 5) Good Health and Well-being (SDG 3) with gap scores of 2.19 (details as shown in table 5.12).

**Table 5.12** The gap between the needs of the people and actions the government is taking to solve of Phuket Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.10	4.68	3.42
Quality Education (SDG 4)	7.48	5.00	2.48
Zero Hunger (SDG 2)	7.16	4.90	2.26
Decent Work and Economic Growth (SDG 8)	7.36	5.11	2.25
Good Health and Well-being (SDG 3)	7.20	5.01	2.19

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on Guidelines or conditions that will improve the quality of life, top three are no corruption and increases the efficiency of information disclosure for transparent management 59.50 percent, followed by social and economic projects are created for comprehensive local development, 58.25 percent, and distribution of capital resources and local administrative powers, 53.00 percent.

#### 5.1.2.12 Songkhla Province

1. Information about general characteristics. It is found that the majority of the sample are female, 57.50 percent. Most are between 46-59 years, 22.75 percent. Most have the highest education of secondary school or equivalent, 46.75 percent. 77.75 percent are Buddhists. Most have the marital status of married, 54.00 percent. Their main occupation is general contractors / laborers, 28.00 percent. Their average monthly income does not exceed 10,000 baht, 32.50 percent. Most of the sample group are in a vulnerable condition, 56.75 percent. Among the samples are those who are in a vulnerable condition, most are temporary / daily employees, 48.46 percent.

2. Quality of life development. It is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.48, followed by Quality Education (SDG 4) with the average of 7.95, Good Health and Well-being (SDG 3) with the average of 7.72, and 2) Government sector operations include government sector problem solving operations, top three are Responsible Consumption and Production (SDG 12) with the average of 5.76, followed by Clean Water and Sanitation (SDG 6) with the average of 5.36, Life on Land (SDG 15) with the average of 5.35, and 3) Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 5.09, followed by Life on Land (SDG 15) with the average of 4.82, Clean Water and Sanitation (SDG 6) with the average of 4.74

3. The gap between the needs of the people and actions the government is taking to solve. When considering rgent need for improving quality of people's life and Lovernment sector problem solving operations it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 3.83, 2) Quality Education (SDG 4) with gap scores of 3.14, 3) Good Health and Well-being (SDG 3) with gap scores of 3.14, 4) Zero Hunger (SDG 2) with gap scores of 2.98, and 5) Decent Work and Economic Growth (SDG 8) with gap scores of 2.93 (details as shown in table 5.13).

**Table 5.13** The gap between the needs of the people and actions the government is taking to solve of Songkhla Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.48	4.65	3.83
Quality Education (SDG 4)	7.95	4.81	3.14
Good Health and Well-being (SDG 3)	7.72	4.58	3.14
Zero Hunger (SDG 2)	7.55	4.57	2.98
Decent Work and Economic Growth (SDG 8)	7.57	4.64	2.93

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are no corruption and increases the efficiency of information disclosure for transparent management, 53.50 percent, followed by social and economic projects are created for comprehensive local development, 47.50 percent, and cooperation is created to create effective development policies in the community, 40.50 percent.

#### 5.1.2.13 Pattani Province

1. Information about general characteristics. It is found that the majority of the sample are female, 59.25 percent. Most are between 36-45 years, 26.75 percent. Most have the highest education of secondary school or equivalent, 40.75 percent. 100.00 percent are Muslims. Most have the marital status of married, 67.00 percent. Their main occupation is general contractors / laborers, 32.00percent. Their average monthly income does not exceed 10,000 baht, 59.00 percent. Most of the sample group are in a vulnerable condition, 65.00 percent. Among the samples are those who are in a vulnerable condition, it is found that most are temporary / daily employees, 42.31 percent.

2. Quality of life development. It is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.45 percent, followed by Zero

Hunger (SDG 2) with the average of 8.10, Affordable and Clean Energy (SDG 7), Good Health and Well-being (SDG 3) and Decent Work and Economic Growth (SDG 8) have the same average of 8.06 and 2) Government sector operations include government sector problem solving operations, top three are Quality Education (SDG 4) with the average of 4.21, followed by Partnerships for the Goals (SDG 17) with the average of 4.10, Clean Water and Sanitation (SDG 6) with the average of 4.08, and 3) Results of corrective/management actions by the government sector, top three are Quality Education (SDG 4) with the average of 3.63, followed by Partnerships for the Goals (SDG 17) with the average of 3.62, Decent Work and Economic Growth (SDG 8) with the average of 3.60.

3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 4.49, 2) Zero Hunger (SDG 2) with gap scores of 4.15, 3) Climate Action (SDG 13) with gap scores of 4.14, 4) Life Below Water (SDG 14) with gap scores of 4.06, and 5) Decent Work and Economic Growth (SDG 8) with gap scores of 4.04 (details as shown in table 5.14).

**Table 5.14** The gap between the needs of the people and actions the government is taking to solve of Pattani Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.45	3.96	4.49
Zero Hunger (SDG 2)	8.10	3.95	4.15
Climate Action (SDG 13)	7.94	3.80	4.14
Life Below Water (SDG 14)	8.00	3.94	4.06
Decent Work and Economic Growth (SDG 8)	8.06	4.02	4.04

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are social and economic projects are created for comprehensive local development, 57.50 percent, followed by cooperation is created to create effective development policies in the community, 55.25 percent, and a space to exchange local knowledge between community members and apply it to development, 43.00 percent.

#### 5.1.2.14 Yala Province

- 1. Information about general characteristics. It is found that the majority of the sample are female, 60.50 percent. Most are between 36-45 years, 29.50 percent. Most have the highest education of Bachelor's Degree or equivalent, 39.50 percent. 99.50 percent are Muslims. Most have the marital status of married, 71.75 percent. Their main occupation is general contractors / laborers, 42.00 percent. Their average monthly income does not exceed 10,000 baht, 69.75 percent. Most of the sample group are not in a vulnerable condition, 58.75 However, when considering a sample group that is in a vulnerable condition, it is found that most are temporary / daily employees, 60.43 percent.
- 2. Quality of life development. It is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.37, followed by Zero Hunger (SDG 2) with the average of 7.66, Good Health and Well-being (SDG 3) with the average of 7.64 and 2) Government sector operations include government sector problem solving operations, top three are Good Health and Well-being (SDG 3) with the average of 4.92, followed by Quality Education (SDG 4) with the average of 4.86, Life on Land (SDG 15) with the average of 4.80, and 3) Results of corrective/management actions by the government sector, top three are Decent Work and Economic Growth (SDG 8) with the average of 4.07, followed by Quality Education (SDG 4) with the average of 4.06, Good Health and Well-being (SDG 3) with the average of 4.05.
- 3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, It is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) No Poverty (SDG 1) with gap scores of 3.80, 2) Zero Hunger (SDG 2) with gap scores of 2.99, 3) Affordable and Clean Energy (SDG 7) with gap scores of 2.87, 4) Gender Equality (SDG 5) with gap scores of 2.87, and 5) Climate Action (SDG 13) with gap scores of 2.87 (details as shown in table 5.15).

**Table 5.15** The gap between the needs of the people and actions the government is taking to solve of Yala Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
No Poverty (SDG 1)	8.37	4.57	3.80
Zero Hunger (SDG 2)	7.66	4.67	2.99
Affordable and Clean Energy (SDG 7)	7.54	4.67	2.87
Gender Equality (SDG 5)	7.44	4.57	2.87
Climate Action (SDG 13)	7.32	4.45	2.87

#### 4. Guidelines or conditions that will improve the quality of life

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are Social and economic projects are created for comprehensive local development, 63.75 percent, followed by a space to exchange local knowledge between community members and apply it to development, 52.25 percent, and the role of participation in the community is promoted equally for all genders, 46.50 percent.

#### 5.1.2.15 Narathiwat Province

1. Information about general characteristics it is found that the majority of the sample are female, 56.50 percent. Most are between 36-45 years, 24.00 percent. Most have the highest education of secondary school or equivalent, 36.50 percent. 90.50 percent are Muslims. Most have the marital status of married, 58.50 percent. Their main occupation is general contractors / laborers, 20.50 percent. Their average monthly income does not exceed 10,000 baht, 43.75 percent. Most of the sample group are in a vulnerable condition, 56.00 percent. Among the samples are those who are in a vulnerable condition, it is found that most are temporary / daily employees, 37.50 percent.

2. Quality of life development. It is found that the sample group has opinions on quality of life development as follows: 1) Urgent need for improving quality of life are No Poverty (SDG 1) with the average of 8.64, followed by Decent Work and Economic Growth (SDG 8) with the average of 8.38, Quality Education (SDG 4) with the average of 8.22, and 2) Government sector operations include government sector problem solving operations, top three are Responsible Consumption and Production (SDG 12)

with the average of 6.11, followed by Good Health and Well-being (SDG 3) with the average of 5.72, Quality Education (SDG 4) with the average of 5.59, and 3) Results of corrective/management actions by the government sector, top three are Responsible Consumption and Production (SDG 12) with the average of 5.69, followed by Good Health and Well-being (SDG 3) with the average of 5.19, Quality Education (SDG 4) with the average of 5.06.

# 3. The gap between the needs of the people and actions the government is taking to solve. When considering urgent need for improving quality of people's life and government sector problem solving operations, it is found that the gap between the needs of the people and actions the government is taking to solve are as follows: 1) Decent Work and Economic Growth (SDG 8) with gap scores of 3.61, 2) No Poverty (SDG 1) with gap scores of 3.12, 3) Quality Education (SDG 4) with gap scores of 2.63, 4) Zero Hunger (SDG 2) with gap scores of 2.20, and 5) Peace, Justice, and Strong Institutions (SDG 16) with gap scores of 1.61 (details as shown in table 5.16).

**Table 5.16** The gap between the needs of the people and actions the government is taking to solve of Narathiwat Province

Sustainable Development Goal (SDG)	Urgent need for improving quality of life	Government sector problem solving operations	The gap between the needs of the people and actions the government is taking to solve
Decent Work and Economic Growth (SDG 8)	8.38	4.77	3.61
No Poverty (SDG 1)	8.64	5.52	3.12
Quality Education (SDG 4)	8.22	5.59	2.63
Zero Hunger (SDG 2)	7.45	5.25	2.20
Peace, Justice, and Strong Institutions (SDG 16)	6.31	4.70	1.61

Sources: Research team

#### 4. Guidelines or conditions that will improve the quality of life.

The sample group has opinions on guidelines or conditions that will improve the quality of life, top three are developing and improving appropriate local policies, 61.50 percent, followed by no corruption and increases the efficiency of information disclosure for transparent management, 53.50 percent, and social and economic projects are created for comprehensive local development, 49.25 percent.

#### 5.2 Discussion

In this section, the results of the survey "Opinions on quality of life development" are analyzed and reflected on the needs of the people. This is the use of questionnaire response data from sample groups in the Sustainable Development Goal (SDG). Targeted Provinces group of provinces in quality of life development consisting of urgent needs and government actions which is scored between 0-10. That is, 0 means there is no urgent need/not resolved/addressed and 10 means it is most urgently needed/resolved/addressed. Therefore, quality of life development can be classified into 5 ranks as follows:

Number 1: Improving the quality of life in the issue of "Poverty Alleviation" or Sustainable Development Goal No. 1 "No Poverty" (SDG 1) has an average of 8.94. It shows that improving the quality of life in No Poverty has the most pressing needs related to improving quality of life. And when considering the operation of the government sector, it is found that the sample group has opinions on the corrective action/management of the government sector with an average of 5.42. and the results of corrective action/management of the government sector has an average of 4.63. It can be said that the sample group of Sustainable Development Goal (SDGs) provinces knows that the government sector has taken corrective/management steps. But it may be at the middle level. When considering from the criteria of scoring 0-10, it is found that gaps that require urgent action in order to achieve Sustainable Development Goal 1 are Enforcement of legislation and legislation is at a moderate level. But enforcement is still at a low level. The same is true of the government setting policies and measures at a large level and when setting any project or plan, money must be used, which is an important mechanism for driving it, but budget readiness is at a low level. Therefore, the drive to achieve the Sustainable Development Goal (SDGs) has obstacles. Therefore, if the government or related agencies work together to manage various mechanisms, Thailand will have the opportunity to achieve Sustainable Development Goal 1.

Number 2: Improving the quality of life in the areas of "Quality Education" and "Having the skills necessary for employment" or Sustainable Development Goal No. 4 Quality Education (SDG 4) has the average of 8.50. It shows that the demand for Quality Education has an urgent need for improving quality of life because it will help increase knowledge, professional skills and social opportunities. And when considering the operation of the government sector, it is found that the sample group's opinions regarding the corrective action/management of the government sector has an average of 5.71, and the results of the government sector's corrective/management actions has an average of 4.94. It can be said that the sample group of Sustainable Development Goal (SDGs) provinces knows that the government sector has taken corrective/management steps. But it may be at the middle level when considering from the criteria of scoring 0-10. However, when conducting

the research study, problems and limitations were found, including Government agencies do not have statistical information publicly available on their websites or other sources. Or if there is, there is incomplete information, such as the NT and O-NET exams, where only the average of children in the entire country is announced on the website. There is no percentage of children who receive an average of more than 50 percent, etc. The government sector does not yet have appropriate data to answer the indicators. For example, the NT or O-NET exams do not have a minimum criteria for passing the exams, including information provided by many government agencies that do not match, such as the definition of each goal.

Number 3: Improving the quality of life in the issue of Decent Work and Economic Growth or Sustainable Development Goal No. 8 Decent Work and Economic Growth (SDG 8) has the average of 8.3 5. It shows that in the view of the sample group of Sustainable Development Goal (SDGs) provinces, all 15 provinces view that the issue of Decent Work and Economic Growth has an urgent need for improving quality of life. And when considering government operations, it is found that the sample group's opinions regarding corrective actions/management of the government sector has an average of 5.51, and the results of the government sector's corrective/management actions has an average of 4.83. It can be said that the sample group of Sustainable Development Goal (SDGs) provinces knows that the government sector has taken corrective/management steps. But it may be at the middle level when considering from the criteria of scoring 0-10.

Number 4: Improving the quality of life in the issue "Having good mental health (Mental Health)" and "Road Safety" or Sustainable Development Goal No. 3 Good Health and Well-being (SDG 3) has the average of 8.34. It shows that the sample group has a desire to improve their quality of life. And when considering government operations, it is found that the sample group's opinions regarding corrective actions/management by the government sector has an average of 5.61 and the results of corrective action/management of the government sector has an average of 4.88. It can be said that the sample group of Sustainable Development Goal provinces knows that the government sector has taken corrective/management steps. But it may be at the middle level. And in the comments section from government agencies and non-government agencies, they viewed that operations to solve the country's problems were not yet a sustainable development approach. There is a lack of full integration and there is a shortage of personnel in some fields. As for medical personnel, they are still concentrated in Bangkok. There are frequent job changes, causing discontinuous operations. The follow-up of the evaluation results is not strong and there is a lack of efficiency in enforcing the law. The research team believes that Thailand is more aware of health. There is a short-term, medium-term and long-term operational plan and there is a person responsible for the operation. Therefore, it is a good trend in the health development of Thailand. However, if you want the health and welfare conditions to be good and sustainable, it will require cooperation from all relevant agencies and in solving problems with other Sustainable Development Goals, it will be possible to have sustainable health conditions. For example, solving poverty problems, agriculture, water, soil, chemicals because health problems are the result of other causes as well.

Number 5: Improving the quality of life in the issue "Developing small farmers to promote a sustainable food system" and improving the quality of life in the issue "Having good health and nutrition" or Sustainable Development Goal No. 2 Zero Hunger (SDG 2) has the average of 8.32. Shows that the demand of Zero Hunger is an important quality of life development ecause it is a general basic need that is important for living. When considering government action, it is found that the sample group has opinions on corrective action/management by the government sector with the average of 5.45 and opinions on the results of the government sector's corrective/management actions were average 4.71. It can be said that the sample group of Sustainable Development Goal (SDGs) provinces knows that the government sector has taken corrective/management steps. But it may be at the middle level. when considering from the criteria of scoring 0-10. This is consistent with the study results of Sathian Chantha and colleagues (2019) which explained that current operations of various sectors regarding Sustainable Development Goal 2 in the Thai context have relevant agencies that perform primary duties and some agencies that perform secondary duties, and various activities have been carried out for each goal. However, it can be seen that most of the operations are based on the mission of performing regular duties that each agency carries out itself. There's a lack of connection and integration, especially on the same issue or goal with many agencies having related activities. Although Thailand's readiness is mainly carried out in specific parts of the government sector, there is a lack of coordination and drive of the private sector which is an important organization that will help push the country to achieve the desired Sustainable Development Goal. Therefore, bringing in the private sector to be a partner in development in Sustainable Development Goal 2 is very necessary. Especially the dimension of poverty that is related to the problem of hunger, increasing labor productivity and agricultural income that will be obtained from selling fair produce. Therefore, the operations of the government sector must establish appropriate policies regarding promoting and supporting the private sector to work in development to be socially responsible.

And when considering the issue of what guidelines or conditions will improve the quality of life of the people, it is found that the sample group of Sustainable Development Goal (SDGs) provinces focuses on 1) Developing and improving appropriate local policies which is the matter that the sample group of Sustainable Development Goal (SDGs) provinces give the mist importance to. This is because local policies may not yet be fully

decentralized. 2) No corruption and increases the efficiency of information disclosure for transparent management. This is because in the past people were still not confident in the operations or various projects that the government implemented. With modern communication systems and information technology, the government sector must disseminate information to the public. In addition, people today can conveniently access various information systems and data. Therefore, disclosing information is necessary to build confidence among the public. And 3) Social and economic projects are created for comprehensive local development. From the point of view of the public sector, they still give importance to the problems of livelihood and the economy as main issues. Therefore, creating social projects that can stimulate the economy for local development is important. This is coupled with Thailand and the international community having just overcome the COVID-19 situation. As a result, the world's economy is at a standstill. Especially Thailand, whose main income comes from the tourism sector. Therefore, when the COVID-19 outbreak situation occurred, it affected the tourism sector. As a result, income cannot be distributed to the public sector in terms of tourism. In addition, Thailand's political uncertainty is still not stable. It was also during the election period in the past years and a new government has just been established. There are also policy changes and budget delays in the government sector. As a result, the economy cannot be stimulated thoroughly.

In addition, the research team has additional findings from the overall project as follows:

- 1) General characteristics: It is found that the new generation is more interested in and has a better understanding of the Sustainable Development Goals (SDGs) than other generations. The issue of dividing individual characteristics according to time period or generation is therefore one of the important factors.
- 2) Urgent need for improving quality of life: It is found to be quite high in demand because the Sustainable Development Goals (SDGs) have a direct impact on people's lives, especially the overview of the top 5 results from the survey.
- 3) Corrective action/management by the government sector: It was found that there is continuous progress related to the Sustainable Development Goals (SDGs) in every sector. There are the following observations:
- There may be a lack of integration among relevant sectors or agencies, causing the information to be quite scattered. The public sector may not yet be aware of it and may not yet have access to it.
- The operational indicators of each sector have already been implemented but may not yet clearly indicate that they meet the goals of development that meet the needs, or focus on development that matches whice one of the Sustainable Development Goals (SDGs).

- Lack of public relations using media to be accessible to all sectors of the public to know what actions the government has taken through social media and communications that can reach each group easily and thoroughly.
- Policy changes and the discontinuity of the political civil service sector affects the development of the country as a whole which affects the overall sustainable development goals of Thailand.
- The leadership of those in command plays an important role. It is found that provinces where the governor places importance on sustainable development (SDGs) have sustainable development goal status. Overall, the survey results are clearly good.
- 4) Serious cooperation from all sectors. Driving Thailand to achieve the Sustainable Development Goals (SDGs) requires cooperation from all sectors including the government sector, related private sectors, educational sector, and civil society sector. It is noted that which provinces have a strong education sector to support will affect the overall results of the survey. Considering the evaluation results, it is clearly at a good level when compared to other provinces that do not have an educational sector involved.
- 5) The distribution of areas and people in the overall survey of each province should be comprehensive in order to know the actual results of each province.

#### 5.3 Suggestions

- 5.3.1 There should be a nationwide survey to get clearer and more reliable information.
- 5.3.2 Because this survey was conducted to collect data through two survey methods, namely survey using interview methods from respondents (In-person Survey) and Survey using online survey method (Online Survey) together. And from time limitations, it is found that the distribution of the sample using the online survey method was not appropriate. Therefore, it cannot be analyzed. If the next study is carried out by means of an online survey (Online Survey), data should be collected and distributed thoroughly in order to obtain the desired number of samples. In collecting data, surveyors may be involved to provide advice in order to obtain complete and efficient information.
- 5.3.3 Data collection using qualitative methods should be carried out together in order to expand the study results to be more efficient.
- 5.3.4 Study further about surveys of a vulnerable condition and vulnerable populations in order to consider policy recommendations.
- 5.3.5 Learn more about evaluating the performance of the government sector to be consistent with the reality regarding the implementation of the Sustainable Development Goals of Thailand.

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**Annexes** 

## Annex A Research Instrument (Questionnaire)

#### Questionnaire

#### Explanation

The Ministry of Interior of the Government of Thailand in collaboration with the United Nations Development Programme (UNDP), funded by the European Union, hurry to propel sustainable development goals at the local level in Thailand. They have initiated the project on "Survey on the Overview Status of Thailand's Sustainable Development Goals" with the aim to propel Thailand's determination to achieve its sustinable development goals 2030 through cooperations with organizations in the public, private and civil society sectors starting in 15 pilot provinces. There are plans to expand to other provinces across the country in the future.

This survey project has been implemented by the UNDP whereby the information you supply in this set of questionnaire will be kept confidential. No information will be disclosed to other people. Results of the survey will be published, but only in the overall statistical form.

Thank you for your cooperation to truthfully complete this survey.

United Nations Development Programme

<u>Instruction</u> Please t	ick 🗹 appropriately and as per your o	opinions.
Part 1: General info	rmation	
1. Gender	□Male	Female
	Others: Please specify	
2. Age	☐Ages 18-25 years	☐Ages 26-35 years
	☐Ages 36-45 years	☐Ages 46-59 years
	☐Ages 60 years and above	
3. Vulnerability	□Vulnerable conditions (You can t	ick more than 1)
	☐Physical injuries i.e. impai	rments, emergencies
	☐Psycho-social disability	
	☐Senior citizen	□Disabled
	Minority	☐Immigrant worker
	☐Homeless, stray, pauper	☐Temporary/Daily hire
	☐Youth, student	□Unemployed
	☐ Stateless	□LBGTI
	□Iliterate	☐Non-Thai speaking person
	$\square$ Single mother	Other. Please specify
	☐No vulnerable conditions	
Source: National Rese	arch Council of Thailand, Ethics Guildelines	for Human Research 2nd Updated Edition, 2021
4. Religion	□Budhism	□Islam
	☐ Christianity	Other. Please specify
5. Marital status	Single	□Married
	□Widow	☐ Divorced, separated
6. Education	☐Primary or lower	☐Secondary or equivalent
	☐Diploma or equivalent	☐Undergraduate or equivalent
	☐Graduate or equivalent	
7. Career	☐Civil servant/staff/state employed	e Private sector officer
	☐ Business owner/freelancer	☐ Farmer/fisher
	☐General worker/Laborer	$\square$ Househusband/wife/retiree/unemployed
	☐ Student	Other. Please specify
8. Income	□No income	□Not more than 10,000 baht
	□10,001-20,000 baht	□20,001-30,000 baht
	□30,001-40,000 baht	□40,001 baht and above
	$\prod_{n/a}$	

<u>Instructions</u> Please tick **☑** appropriately and as per your opinions.

Score 0-10 (10 being most urgent/requiring improvement/management and 0 being least)

Part 2 How do think the following developments are necessary in terms of urgency for quality of life for you and your family? Have they been improved/managed and how?

ramity: Have they been impro	Urgency for	Public sector	implementation
Development issues	quality of life	improve/managed	Outcomes have been
	most necessary	positively	most effective
1.Solution to poverty	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
2.Development of small group of famers for	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
sustainable food systems	0 1 2 3 4 5 6 7 6 9 10	0 1 2 3 4 3 6 7 6 9 20	0112343070910
3.Well-being and good nutrition	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
4.Good mental health	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
5.Road safety	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
6.Quality education	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
7.Necessary skills for employment	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
8.Elimination of violence against gender in private and public spaces	012345678910	012345678910	012345678910
9.Being involved and having equal access for women and LGBTQ+	012345678910	012345678910	0 1 2 3 4 5 6 7 8 9 10
10.Possessing and having access to clean	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
water for drinking and use			
11.Possessing and having access to clean	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
energy for all			
12.Employment and access to good jobs	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
13.Adjusting to green economy (designing of basic infrastructures, roads, water, power, buildings, houses)	012345678910	012345678910	012345678910
14.Being involved in proposing policies for better quality of life	012345678910	012345678910	0 1 2 3 4 5 6 7 8 9 10
15.Solutions to air pollution	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
16.Resilience and reduction of impacts from natural disasters	012345678910	012345678910	012345678910
17.Solutions to water pollution	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
18.Reducing and reusing recycle	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10	0 1 2 3 4 5 6 7 8 9 10
19.Building awareness of impacts from climate change and global warming 20.Participation in allocating forests and greenery areas.	012345678910	012345678910	012345678910
21. Transparent and high quality management of public services and disemination	012345678910	012345678910	012345678910

Instructions Please tick 🗹 as per your opinions
Part 3 Which methods allow better quality of life for you (Choose 3 most importone ones)
3.1 Having development and improvement of appropriate local policies.
3.2 Creating social and economic projects for local development for all.
3.3 Promoting equal roles and participation in communities for all genders.
3.4 Building collaborations for <b>development policies</b> in communities effectively.
3.5 Ensuring distribution of funds and authorites for local management.
3.6 Having platforms to exchange local wisdoms among community memebers to adapt
for development.
3.7 Providing knowledge of conservation for the environment and waste management.
3.8 Being without corruption while increasing efficiency of information disclosure for transparent
administration.

Annex B
Field Work Photos – Trial of Research Instrument

#### Field work photos – Trail of research instrument



#### Field work photos – Trial of research instrument (Continued)











