

THAICOM PUBLIC COMPANY LIMITED

Sustainability Excellence

01 September 2023

Over the past 30 years...



Our Future...

Earth

Observation &

Geospatial

Intelligence

The Leading Regional Space Tech Company



The Next Generation **Broadband Satellites** (GEO & LEO) Satellite-to-Phone





Small Satellite Constellations and Space Port

THAICOM



IoT with Low Earth Orbit (LEO) Satellites



OUR VISION

To empower people with Innovative Space Technology for a better life

Mission

To be the **number one space tech company** in Thailand and one of the top in the region.

To build new **digital capabilities** to serve business opportunities of the future To create value under the principle of **corporate governance** and foster **sustainable development** for all stakeholders.

To grow our business through

international partnerships

Core Values

Act like an Owner

Be Dynamic

Build Partnership

Strive to be Best-in-Class



1. Managing Material Topics in the Economic Dimension



Thaicom's assessment for material issues





3

High

5. Energy Management

1. Sustainable profitable growth/

2. Ethical business practices & Good

3. Build good relationships with business partners & regulators

Economic performance

Corporate Governance

6. Effluents & Waste

Social

Economic

Environmental

4. Emissions

7. Employee's Engagement, Well-Being, Quality of Life and Development

8. Data Security & Customer Privacy

9. Community Contribution

Importance of an issue to Thaicom

Download 56-1 One Report : https://www.thaicom.net/ebook/56-1/2022/EN/ page 52: Materiality matrix

Sustainable profitable growth/Economic performance



CORE SATELLITE BUSINESS



To ensure service continuity of broadband businesses and expand to serve additional demands





Achievements

Strategy

Goal



Secured core satellite businesses through 20-year orbital slot licenses

- 119.5E: broadband services
- 78.5E: hybrid broadcast/broadband



Secured anchor customer, Eutelsat, to lease and operate the service for 50% of the satellite capacity during its lifetime of 16 years Business expansion in key markets, e.g., India, Philippines, Australia, etc.

Eutelsat is one of the world's leading satellite operators with a global fleet of satellites and associated ground infrastructure.

Sustainable profitable growth/Economic performance



NEW SPACE TECHNOLOGY BUSINESS

To expand business horizon to capture new opportunities in Space Tech To establish Growth Council to drive innovation within the organization



Strategy



Develop New Space Service Platform

PHASE II (2023 - 2024)



Commercialize New Space

Services in Thailand and Region

PHASE III (2024 onwards)



New Space Service International Expansion



Emergency Service Platform through the First Commercial LEO satellite in Thailand



Mobile Tower Inspection platform with Drone technologies

Achievements



Earth Observation Platform for Crop Insurance solutions



Develop horizontal and vertical

integrations to create synergy

aller -

Vertical Integration

BUSINESS PARTNERS

To utilize our strong brand equity to seek strong and international partners to strengthen services

Achievements

Strategy



Goal

Build good relationships with business partners & regulators





Strong balance sheet with robust cash position for future investment opportunities





How the Board of Directors drive and monitor the organization







The Winner of Supplier Awards 2022

By National Broadband Network (NBN) of Australia





ipstar*

upplier Awar 2022 IPSTAR Australia



2. Managing Risks and Opportunities under Climate Changes

Risk impact for business operations



Physical risks





Flood at Thaicom Teleport in Pathum Thani province in 2011

Outer space risks





Solar Flare

Potential impact on the satellite and business operations

Risk management

Thaicom successfully executed contingency plan during the flood in 2011

- ✓ No business interruption
- ✓ Preventive actions to mitigate future risks

Monitoring

System



Pile Sheet Construction



2230 BCMS

Business continuity management systems **Backup Station**

Risk management

Thaicom adopts advanced technical solutions to address the impact from solar flares to ensure

- Service continuity \checkmark
- **Business sustainability** \checkmark



Robust Satellite Design



Backup Satellite

Satellite Stimulator

Transition risks and opportunities



Transition risks



Technology



Policy & Liability

Mitigation Actions

Adopting green energy technology (solar farm at satellite station)

R&D for climate change technology solutions (carbon credit assessment)

Green House Gas (GHG) verification

Opportunities

Generating new business opportunities through product and service development that positively impacts the environment





Next generation broadband services for rural areas without environmental impact Carbon credit assessment solution

Cooperation between business and nongovernmental organizations to promote sustainable development



Crop insurance

solutions



Disaster monitoring platform

Our strategies and mid & long-term goals





Thaicom Greenhouse Gas (GHG) emission

2030



Carbon

Neutrality

2050

Thaicom GHG Emission (2017 – 2022)

Thaicom GHG Emission in 2022

TARGET



Reduction of GHG emission

30% from base year (2022)

17

Energy conservation and alternative energy







THAICOM PPA (Power Purchasing Agreement) Annual estimated energy production: 876.40 MWh/year (Installed capacity: 0.690 MW)



CO2 Reduction for 20 Years 8,762.20 TonCO2e (438.11 TonCO2e/year)



Equivalent to Growing 584,146 - 973,578 plants



AC Units Replacement Energy Saving 196,890 kWh/year CO2 Reduction 98,425 kgCO2e



20 Sets Cooling pad Installation Energy Saving 145,069 kWh/year CO2 Reduction 72,520 kgCO2e



2 Electric transformer Replacement and combined transformer loads Energy Saving 14,788 kWh/year CO2 Reduction 7,393 kgCO2e



On grid Solar cell 20kWp Installation phase I,II,III Energy Saving 109,500 kWh/year CO2 Reduction 54,739 kgCO2e



LED Replacement Energy Saving 36,605 kWh/year CO2 Reduction 18,299 kgCO2e



AC Cleaning CDU and Filter Energy Saving 136,827 kWh/year CO2 Reduction 68,400 kgCO2e



3. Sustainable Corporate Social Responsibility

NADA



Our businesses always support rural communities and disaster relief at regional and international levels



Government project to provide **digital technology access** to connect **24 rural communities** for **lifelong education initiatives**

Government project connected **1,407 remote villages** & provided internet access to people in most difficult terrains in India.

Awarded 5-year contract for National Broadband Network (NBN) project from the government to provide internet access to rural Australia.

Backup communications system provided mobile connectivity during Earthquake and Tsunami in Japan

Provided **internet access** to the affected residents and for rescuer team for **disaster recovery** for an **earthquake at Cianjur (West Java).**





Digital technology access for rural communities



THAICOM connects the unconnected people through digital technology for lifelong education (4 สอ)



Communications *Rural Internet Access*



Education Long Distance Learning



Health Telemedicine



Environment Community Forest Management



Goal

Short TermExpansion of technology access to2023reach 24 communities

Long Term 2026 Expansion to cover remaining segments including health, education, and environment



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



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

Reduce inequality within and

among countries





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

Digital technology access for rural communities



Broadband internet access through Thaicom's satellites for rural people and communities 14 communities (3,922 people) in 2022 24 communities (6,890 people) in 2023





✓ Community development
 ✓ Quality of life improvement
 ✓ Promote social equality

✓ Healthcare and environmental management

✓ Career/professional development

Professional trainings for public and technical institutions THAICOM

Wiang Pa Pao technical college

✓ 50 students

Maesod technical college √ 48 students

Office of the Non-Formal and Informal Education, Chiang Mai ✓ 25 students





- ✓ Thaicom Express Net/Wi-Fi installation and maintenance
- ✓ Agricultural drone control and maintenance



Online learning platform for hearing-impaired children at Setsatian school for the deaf



✓ 79 Online Lessons



Due to the teaching suspension during the lock-down period, the students were **unable to attend regular classes** and were unable to study via the DLTV (Distance Learning TV) channels.

- Equal opportunities for education \checkmark
- **Continuously supporting other education initiatives** \checkmark

Thaicom's contributions in expert knowledge and insights to increase the public awareness on Global and Thai space economy development



SATELLITE 2023 Washington DC, USA

Panel Discussion on the topic: Can Satellites Fulfill the Increasing, Insatiable Demand to Extend 3G, 4G LTE, & 5G Beyond Cities?



CO PSN

Panel Discussion on Asian Satellite Operators: The emergence of a new dynamic in the region



27th Insurance Seminar organized by TGIA

Knowledge Sharing Session on Challenges and Critical Success Factors for Digital Transformation



Academic Conference of Collaborating in the Digital Economy



MIT Media Lab Southeast Asia Forum

Panel discussion on Defying Gravity: From Space Exploration to Democratization



Thailand Connext

Panel Discussion on The Next Generation of Connectivity (X) in Asia







THAICOM PUBLIC COMPANY LIMITED

Appendix

01 September 2023

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Corporate Shareholding Structure

COULF

Gulf Energy Development One of Thailand's largest power producers

42.25%

100%



Intouch Holding PLC The leading investment company in Telecom, Media and Technology

40.44%



Advanced Info Service The number 1 mobile operator in Thailand since 1990

GULFVENTURES

Gulf Ventures Holding subsidiary company of Gulf Energy Development

41.13%



Thaicom Public Company Limited The leading Asian satellite operator THAICOM is a world leading satellite operator providing services in Asia-Pacific.



30+ Years of Experiences



Satellites Launched



10+ Local Presences in Asia-Pacific Countries

Worldwide

Customers in Asia-Pacific, Africa, and Europe

20+ Workforce Nationalities

Satellite Broadband



Pioneer

World's First High Throughput Satellite (HTS) : IPSTAR (THAICOM 4)

Satellite Broadcast



Pioneer

Asia's First Ku-band Direct-to-Home (DTH) broadcasting in Asia



SATELLITE COMMUNICATIONS

3

Satellite TV

DTH and

Distribution

END-TO-END SATELLITE SOLUTIONS





Residential

()

Maritime

BROADBAND

- 654 I	
2	
(\$S)	



Satellite Capacity

VIDEO

NEW SPACE TECH SOLUTIONS



Agriculture



Government

Enterprise

EARTH INSIGHTS (GEOSPATIAL DATA ANALYTICS)



NEW SPACE TECH



Carbon Credit



Agriculture



DRONE ANALYTICS



IoT solutions

INTERNET OF THINGS -(IoT)

Our corporate strategies towards sustainability



Doing Business with Responsibility

Strategize partnerships to ensure long-term business sustainability
 Develop innovative products and services, and new businesses

Caring for People and Society

- 1. Develop employees' skills, working performance, and knowledge
- 2. Promote employee well-being and engagement
- 3. Launch Corporate Social Responsibility (CSR) project for promoting education
- 4. Promote innovations and projects to create learning opportunities and access to digital technology

Thaicom loves Earth

- 1. Energy conservation and alternative energy
- 2. Water usage and wastewater management
- 3. Green House Gas (GHG) management
- 4. Green workplace (Effluent and wastes)