

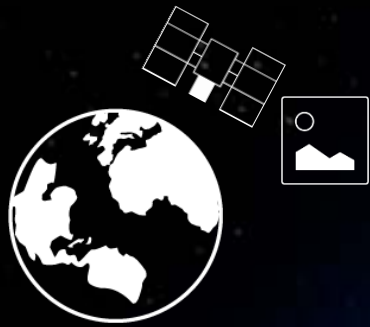
Thaicom Public Company Limited

Sustainability Excellence Awards 2025

10 September 2025



To empower people with **Innovative Space Technology** for a better life



Earth Observation &
Geospatial Intelligence



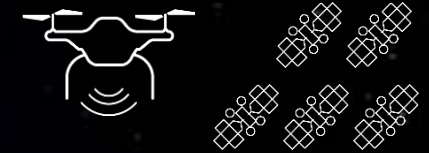
IoT with
Low Earth
Orbit (LEO)
Satellites



The Next
Generation
Broadband
Satellites
(GEO¹ & LEO)



Satellite-to-Phone



Defense & Small
Satellite Constellation

Core Values

**Act like
an Owner**

Be Dynamic

Build Partnership

**Strive to be
Best-in-Class**



1. ECONOMIC SLOWDOWN AND GEOPOLITICS

KEY CHALLENGES

- Geopolitical uncertainty
- Economic slowdown

OPPORTUNITIES

- Government focus on, Sovereignty, National Security and Defense
- Government accelerate spending to digital infrastructure expansion

OUR STRATEGIES

1. Leverage Thaicom's strength in Space Tech to serve demand to support technology upgrade for the Armed Forces
2. Expand digital infrastructure focusing on rural connectivity and use of Space Tech to manage the nation's resources

1. Leverage Thaicom's strength in Space Tech to serve demand to support technology upgrade for the Armed Forces



Thaicom and Royal Thai Air Force Forge Strategic Partnership to Advance Aerospace Technology and National Security



Satellite internet to **support Armed Force for military mission**



Satellite internet support to military units and government operations in remote border areas



Satellite Data to support Armed Force mission for **border conflicts**

2. Expand digital infrastructure focusing on rural connectivity and use of Space Tech to manage the nation's resources

Universal Service Obligation (USO) : Expand connectivity for education and health care nationwide

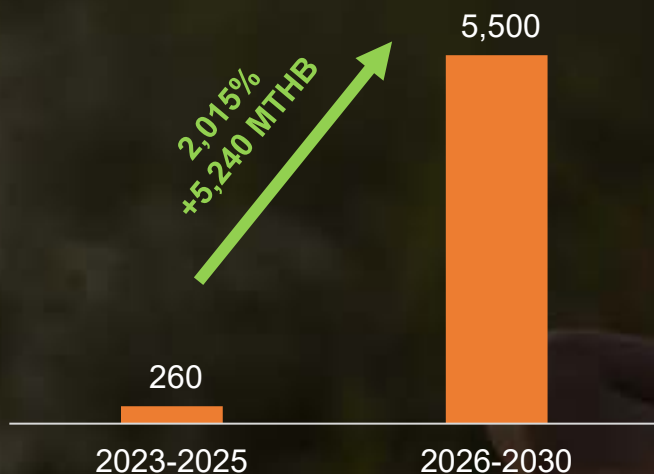


Current and Forecast USO Revenue Opportunity

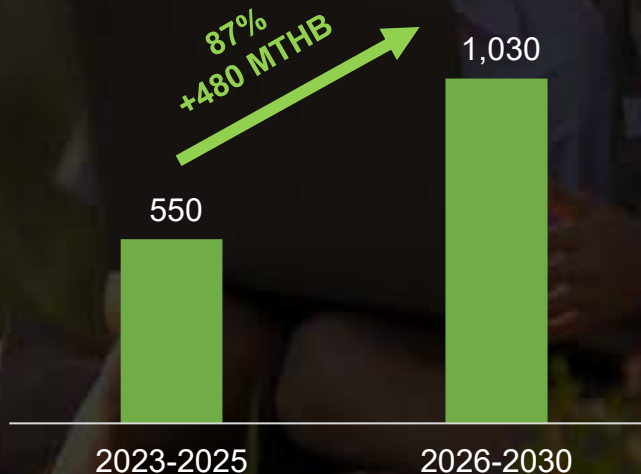


Thailand

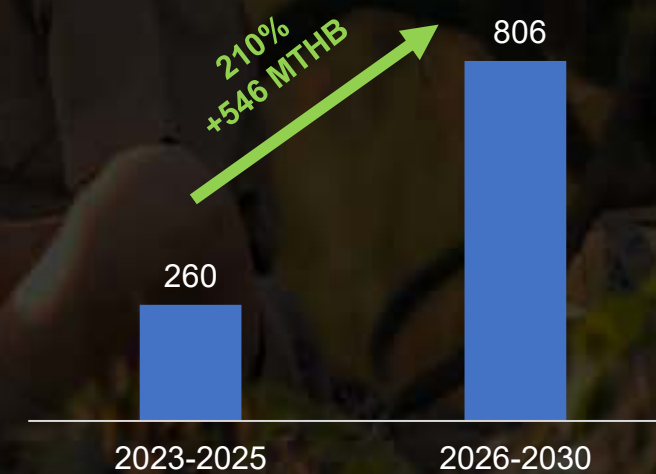
Unit: MTHB



India



Philippines



2. CLIMATE CHANGE

KEY CHALLENGES

- Carbon-offset initiatives losing some momentum
- Extreme weather events & food security
- Public health threats from PM 2.5

OPPORTUNITIES

- Demand for carbon credit offsetting and trading still on track, especially in Europe
- Government agencies and enterprises require tools to mitigate risks
- Government priority in tackling PM 2.5 problem

OUR STRATEGIES

Leverage global partners to develop localized solutions:

1. CarbonWatch product to scale up forest carbon-offset
2. Rice Crop Insurance project to manage risks and improve efficiency
3. Sugarcane Field Burning project to reduce emission of PM 2.5 from the source

1. CarbonWatch product to scale up forest carbon-offset

The **first certified** carbon assessment using **satellite remote sensing & AI** in ASEAN

BENEFITS



30X Less Time Consuming¹



30% Lower Cost



Up to 90% Accuracy
(less labor & human error)



Less Carbon Footprint
(compared with the conventional method)

Achievements:

- ✓ Certified by TGO in 2024
- ✓ Started commercializing FT² & FCD³ in 2024 (65,000 rais)



- ✓ Certified by the **Thailand Greenhouse Gas Management Organization (TGO)**

Forest Type:

- ✓ Deciduous Dipterocarp
- ✓ Mixed Deciduous

Region:

- ✓ North
- ✓ Central

Utilize satellites data and AI/ML to **improve rice crop insurance claim process**

1. **Analyze** the **actual rice cultivation area** and compare it with the area registered under insurance coverage
2. **Verify** agricultural **plots affected by disasters (flood & drought)**

BENEFITS



From > 90 days
to 15-45 days¹



Less labor to
verify (295 MTHB¹)

Achievements:

- ✓ Phase 1 (2023) : 6 provinces (3M rais)
- ✓ Phase 2 (2024) : 16 provinces (13M rais)

Note: Total rice paddy fields in Thailand 60M rais

Signed DOAE²-TGIA³-Thaicom MOU (Jan 2024)



3. Sugarcane Field Burning project to reduce emission of PM 2.5 from the source

Strengthen **the production** of sugarcane industry and help **reducing PM 2.5**

1. **Monitor** and **notify hotspots** and **burned areas** in sugarcane fields
2. **Classify** sugarcane cultivation area and calculate periodic **yield prediction**

BENEFITS



Less time to manage & incentivize



Less labor & human error

Achievements:

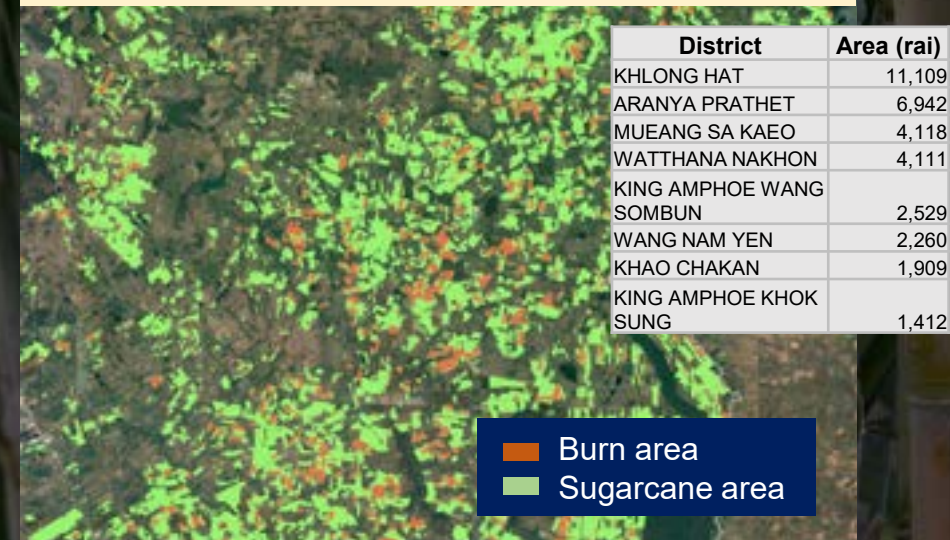
- ✓ Phase 1 (2025) : 4 provinces (1.7M rais)

Note: Total sugarcane fields in Thailand 11M rais

Platform Launch Event with OCSB¹



Sugarcane burned areas in **Sa Kaeo** as of 2nd November 2024



Short-term and long-term goals for CarbonWatch and CropWatch

CO₂

CarbonWatch



CropWatch

Short-Term Goals:

1. Scale up CarbonWatch usages
 - Target 3M rais (47% of total community forest 6.3M rais)
2. Expand CropWatch nationwide
 - Rice Crop Insurance from 13M rais to 60M rais (> 400%)
 - Sugarcane Field Burning from 1.7M rais to 11M rais (> 600%)

Long-Term Goals:

1. Expand CarbonWatch to international standard
2. Expand CropWatch to other crops

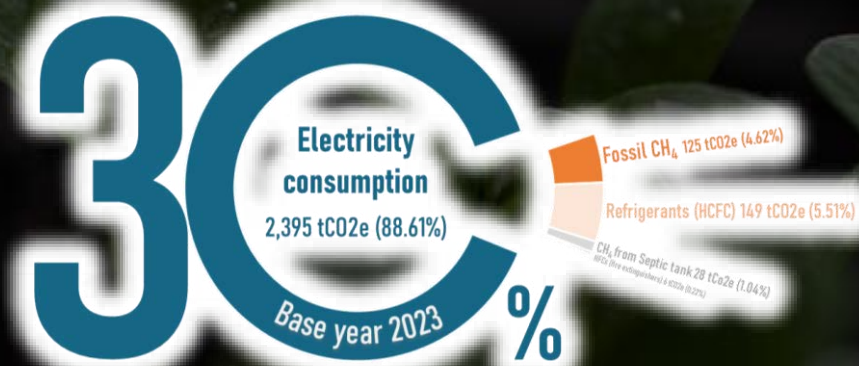


Climate change impact mitigation: Goals

Short-term: To reduce the greenhouse gas emissions, covering scope (i) Direct emissions and scope (ii) Indirect emissions by 30% within 2030 from the base year of 2023, which emitted greenhouse gas emissions of 2,703 metric tons of carbon dioxide equivalent

Long-term: achieve carbon neutrality within 2050

GHG REDUCTION WITHIN 2030



GHG



Reduce greenhouse gas emissions by 2030 from base year of 2023 with the following measures:

28% Use of renewable energy

2% Energy efficiency measures

CARBON NEUTRALITY WITHIN 2050

CARBON
NEUTRALITY



50%

Increasing of renewable energy proportion.

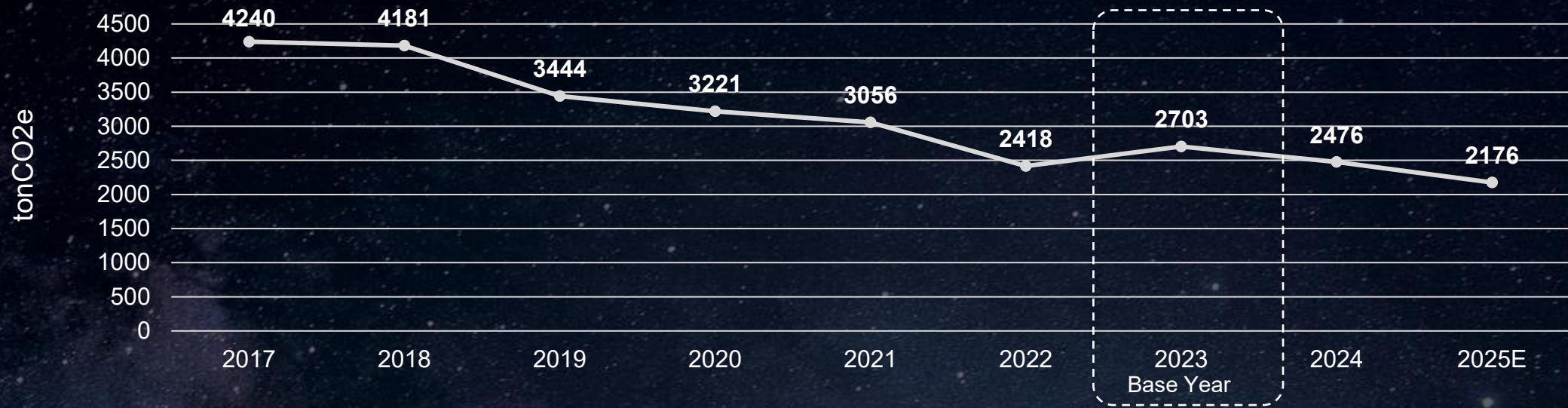
35%

CO2 offset / carbon credits

15%

Reforestation, EV car, and others

Climate change impact mitigation: GHG emission (2017 – 2024)



Solar panel installation at Green Thaicom Satellite Station in Pathum Thani (Q4/2025)



THAICOM PPA
(Power Purchasing Agreement)
Annual estimated energy production: 876 MWh/year
(Installed capacity: 0.690 MW)



CO2 Reduction for 20 Years
8,762 TonCO2e
(438.11 TonCO2e/year)



Equivalent to Growing
600,000 – 1,000,000 plants¹

Projects in 2025



Uninterruptible Power Supply (UPS) Replacement
Energy Saving 240,000 kWh/year
CO2 Reduction 119,976 kgCO2e



Solar panel installation
Energy Saving 972,360 kWh/year
CO2 Reduction 486,083 kgCO2e



Registered Net zero pathway with TGO, targeting Net Zero in 2050

<https://www.thaicom.net/wp-content/uploads/2024/03/GHG.png>

Physical risks



Flooding



Flood at Thaicom Teleport in Pathum Thani province in 2011



New backup station site at the Eastern Economic Corridor (ECC)

Risk management

Thaicom successfully executed contingency plan during the flood in 2011

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

Move to new location



Pile Sheet Construction



Monitoring System



BCMS
Business continuity management systems



Backup Station

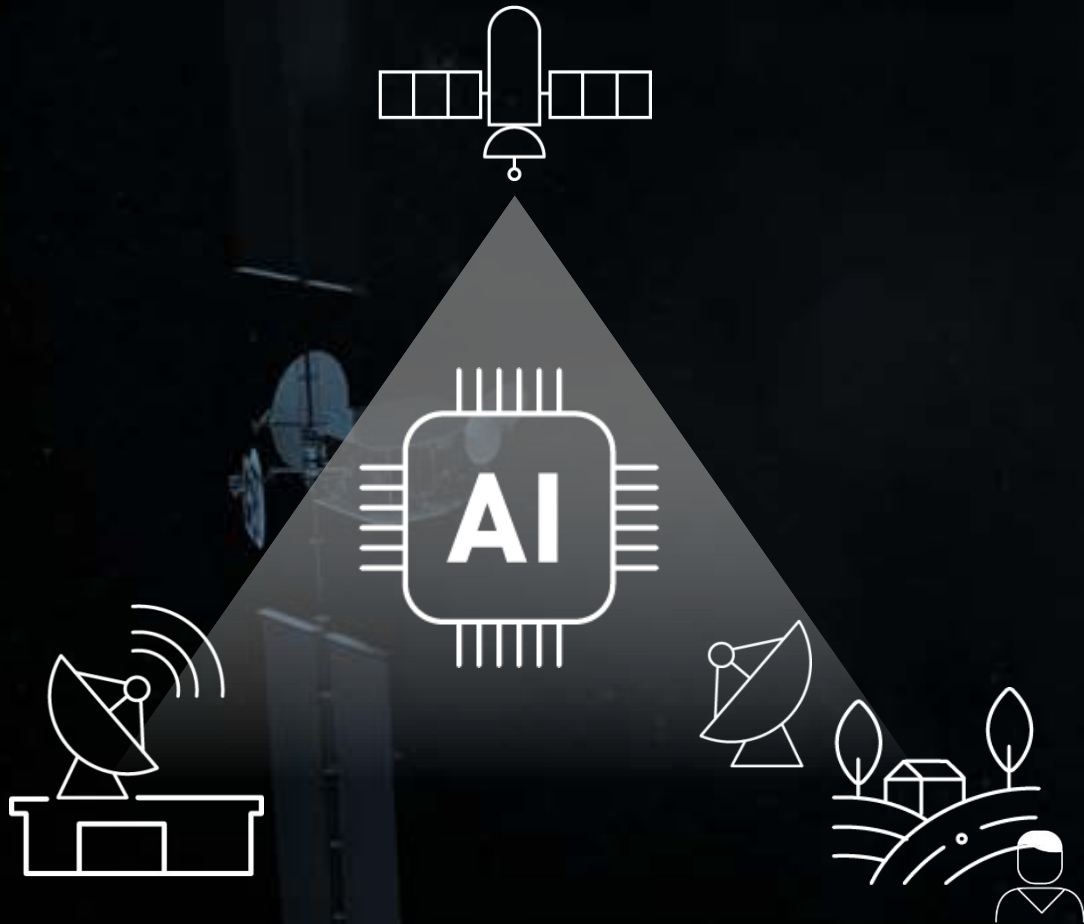


3. APPLICATION OF TECHNOLOGY AND AI

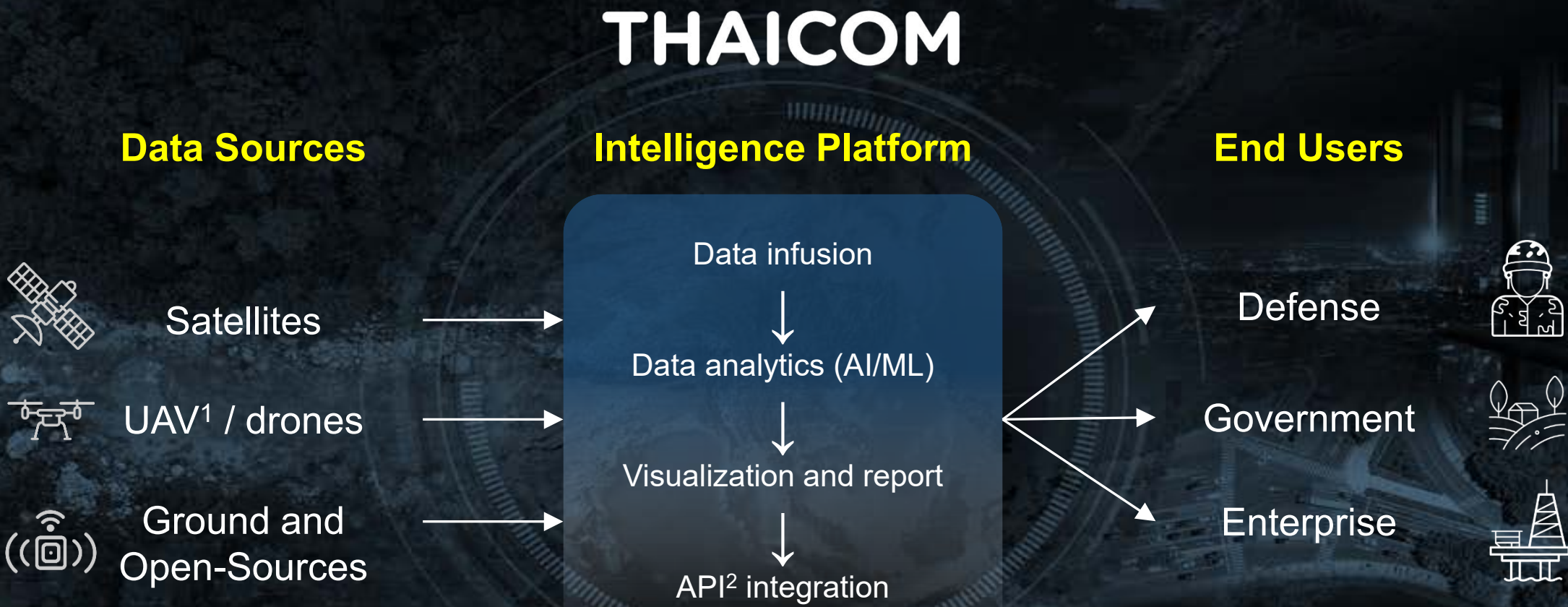
Develop the next generation of ground system using Generative AI for satellite resource management and service performance optimization

KEY BENEFITS

1. Wider access to product marketing people with interactive tool rather than engineer responding case-by-case basis
2. Enhance customer experience of technical support
3. More accurate predictive maintenance



Develop commercialized Space Tech products through AI and Machine Learning (ML)



KEY BENEFITS

CO₂

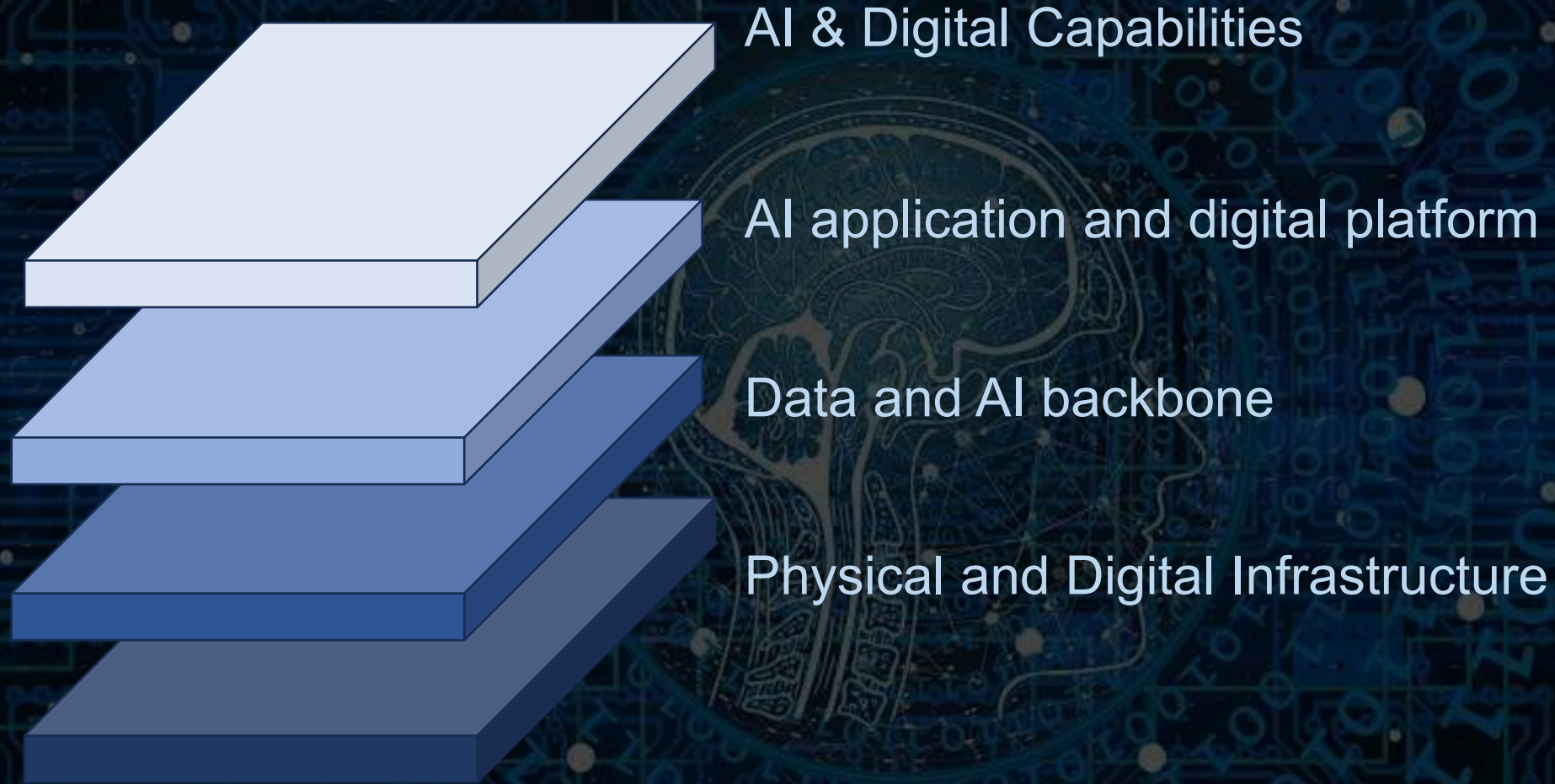
CarbonWatch



CropWatch

- ✓ **30X faster carbon** assessment than traditional method
- ✓ **Over 50% less process time** for rice insurance claim
- ✓ Make available tools to **monitor and notify hotspots and burned areas in sugarcane fields** and perform periodic sugarcane yield prediction





Key highlights for digital capabilities

- Recruit multi-disciplinary AI-enabled **new generation** for the development of new Space Tech solutions
- Upskill through **professional training**

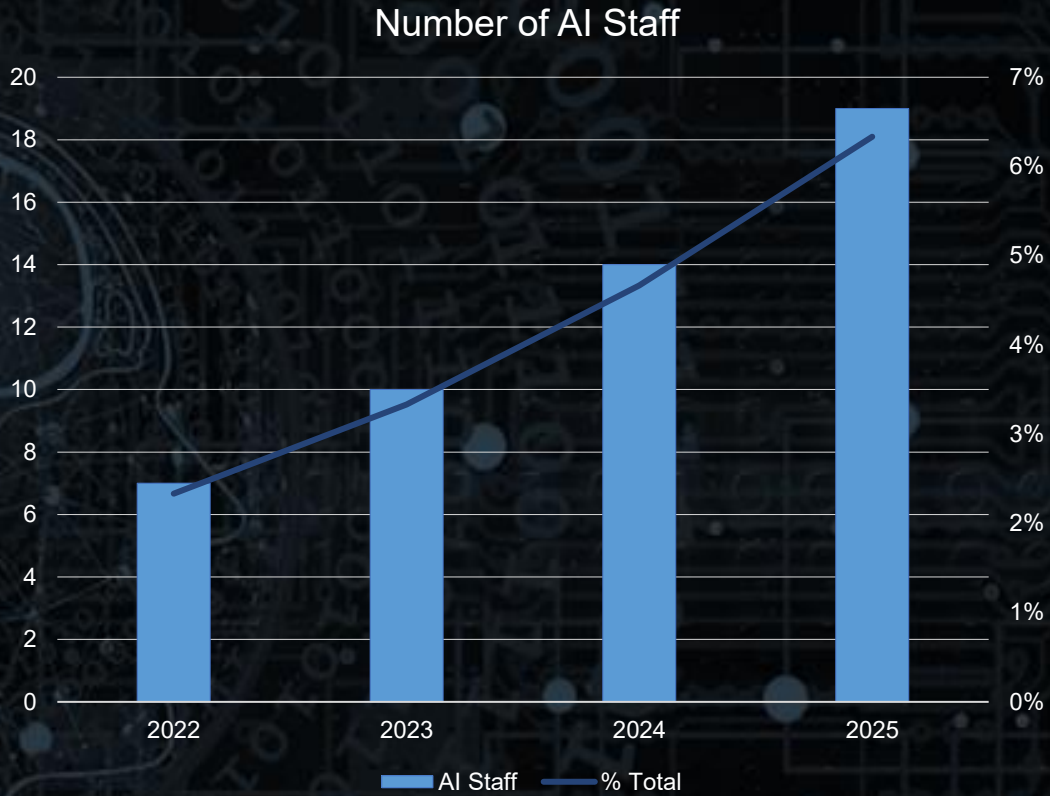


Growth in AI Specialists

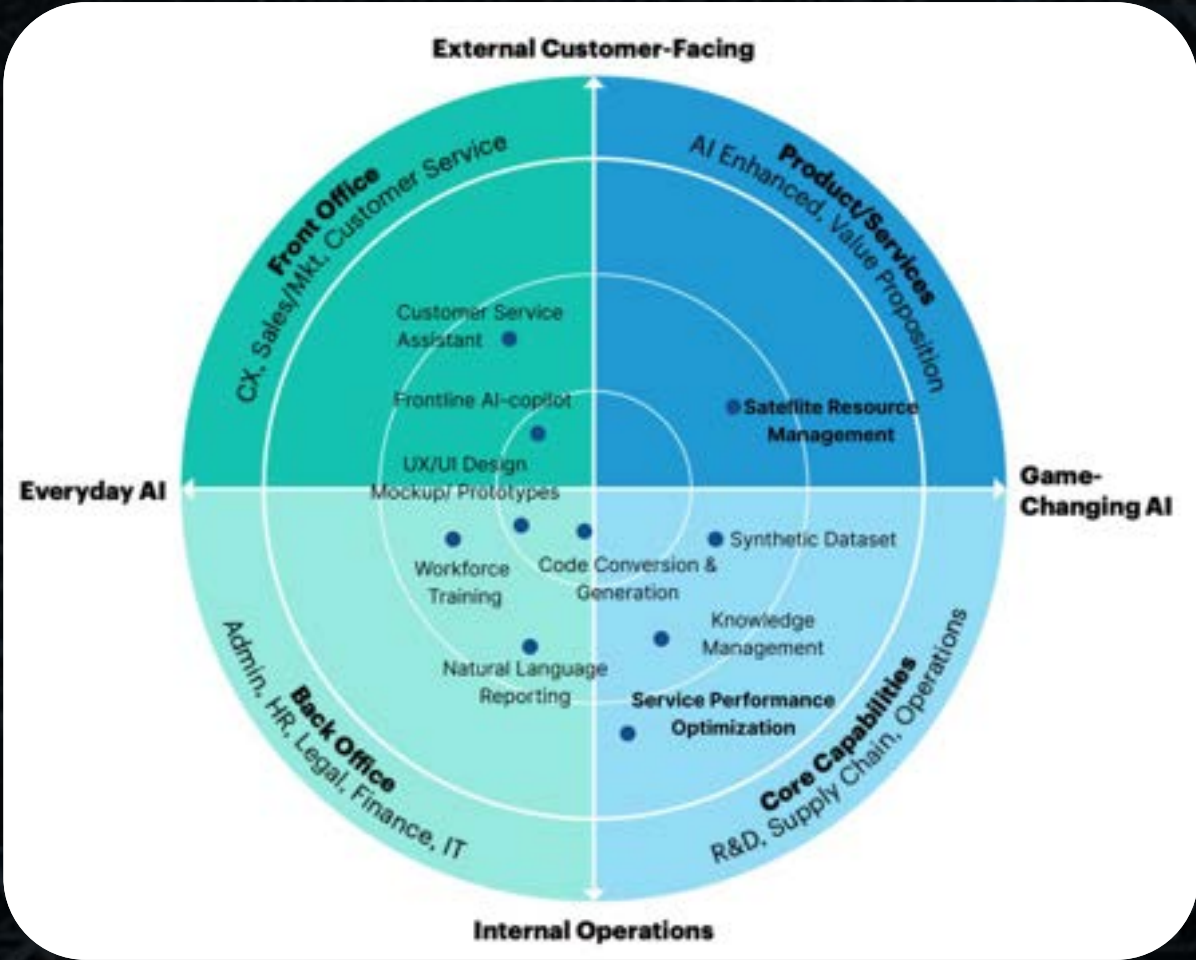
Thaicom has steadily increased its staff specializing in AI technologies, reflecting the Company’s strategic direction in Space Tech and next generation satellite

Commitment to Innovation

Thaicom demonstrates commitment to innovation and efficiency by embracing artificial intelligence in its business processes



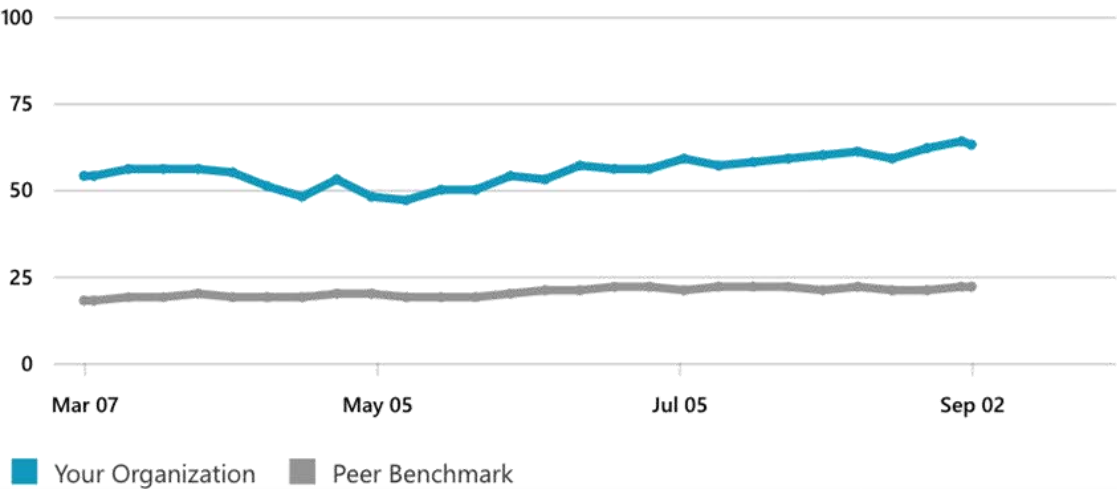
Our application of AI and technological advancements to enhance competitiveness



Filters: Data view: Trend - 180 days

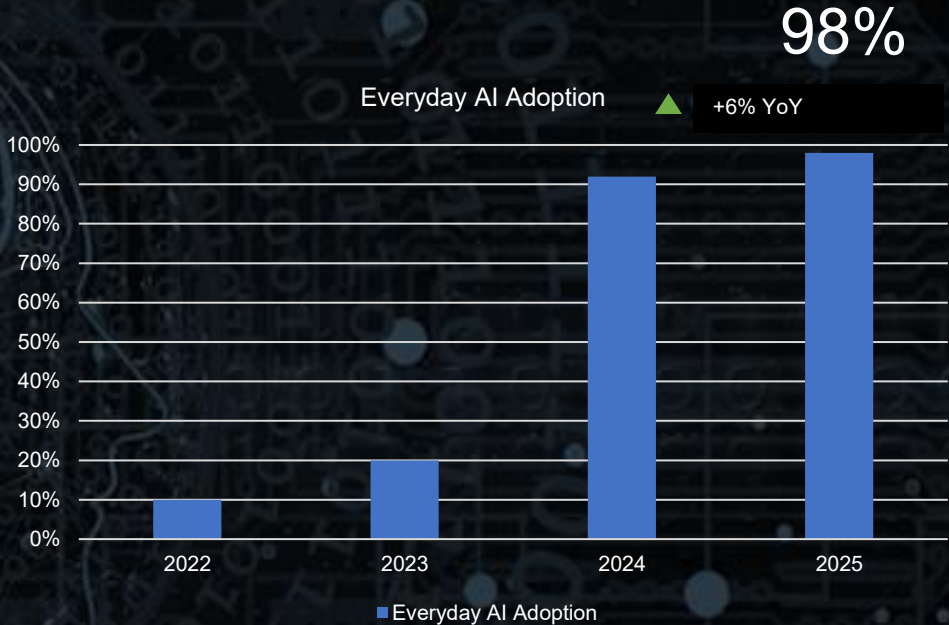
Score: **63/100 points** ▲ +3.2 compared to last 30 days

22/100 Peer benchmark ⓘ



How is this score calculated?

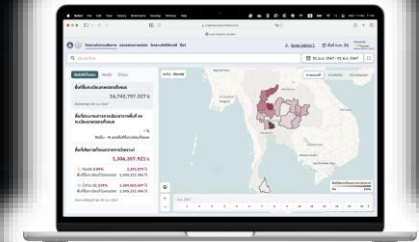
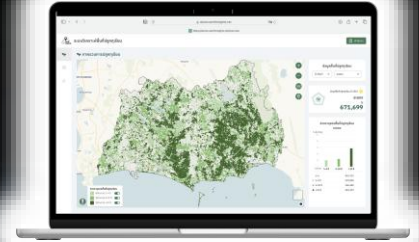
The AI adoption score represents the extent to which users in your organization have made Microsoft 365 Copilot a daily habit. To get a score of 100, all licensed users in your org must have used Copilot for an average of at least 3 days per week over the past 4 weeks.



Source: Internal Thaicom's Survey

SpaceTech Projects

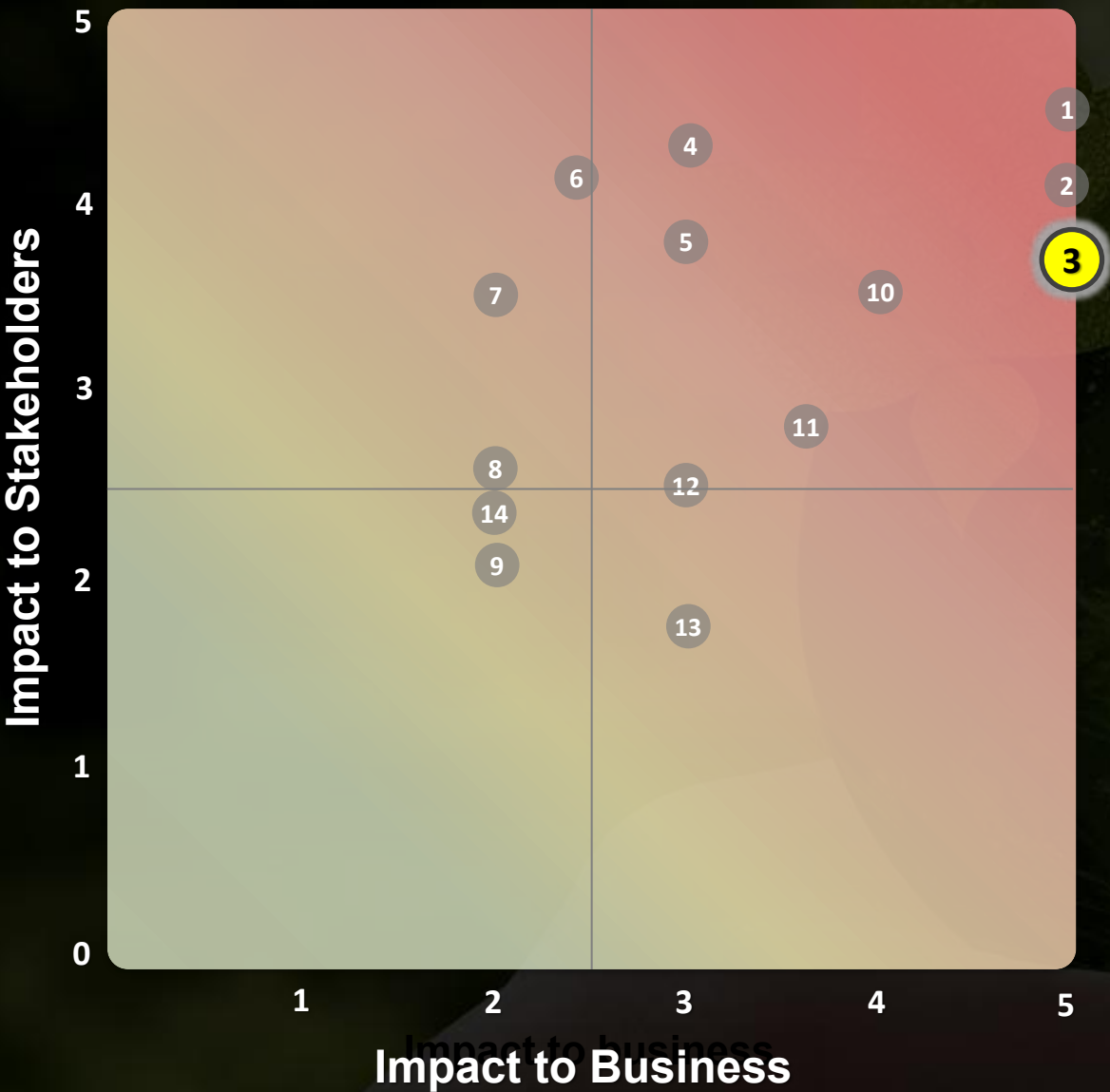
- ✓ Carbon credits related
- ✓ Agriculture-related project (Crop Insurance)
- ✓ Climate change projects (PM 2.5, Airshade, Burn Area Sugarcane)



Space Tech revenue as percentage of total revenue: **As of H1 2025 (6%), 2027 (expected 20%)**



4. SUSTAINABILITY MATERIAL TOPIC



1. Corporate Governance and Economic Dimension

- 1. Management of Business Partner relationship
- 2. Network investment
- 3. Managing Systemic Risks from Technology Disruption
- 4. Management of Customer relationship
- 5. Code of Conduct
- 6. Data privacy, Cyber and IT security
- 7. Corporate Governance

2. Environmental Dimension

- 8. Environmental management
- 9. Climate Change management

3. Social Dimension

- 10. Employee training and Development
- 11. Employee Engagement
- 12. Occupational Health and safety management
- 13. Diversity of employee
- 14. Technology Digital Access (CSR)

Next Generation Satellite Platform



Non-GEO Broadband Satellite Partnership and Multi-Orbit Solutions



Satellite IOT Solutions



Space Tech Services



Next Generation Satellites (THAICOM 9 and THAICOM 10): Goals and results

THAICOM

GOAL: To launch new satellites with innovative Software-Defined technologies to serve immediate and future demands in key markets

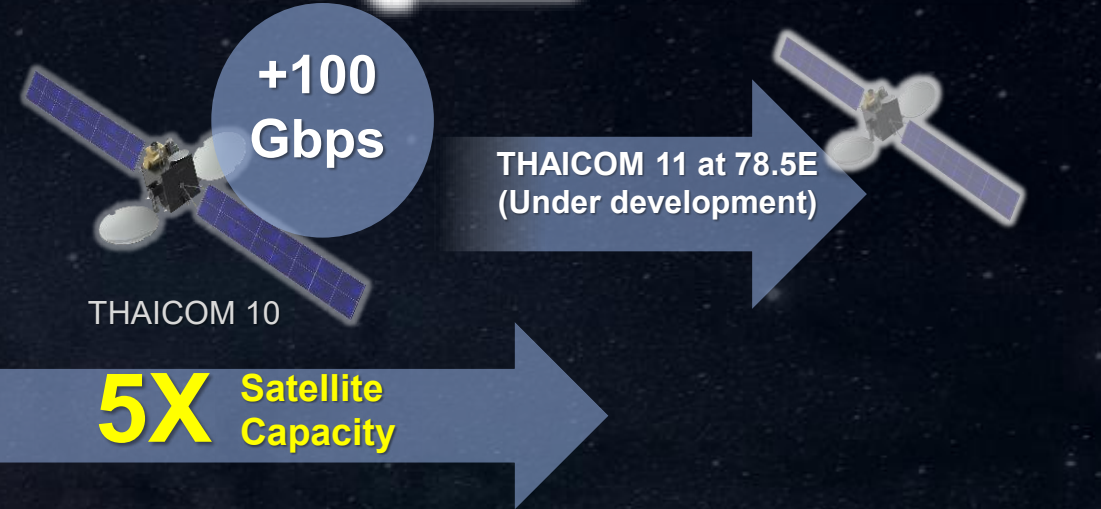
2025



2026



2028

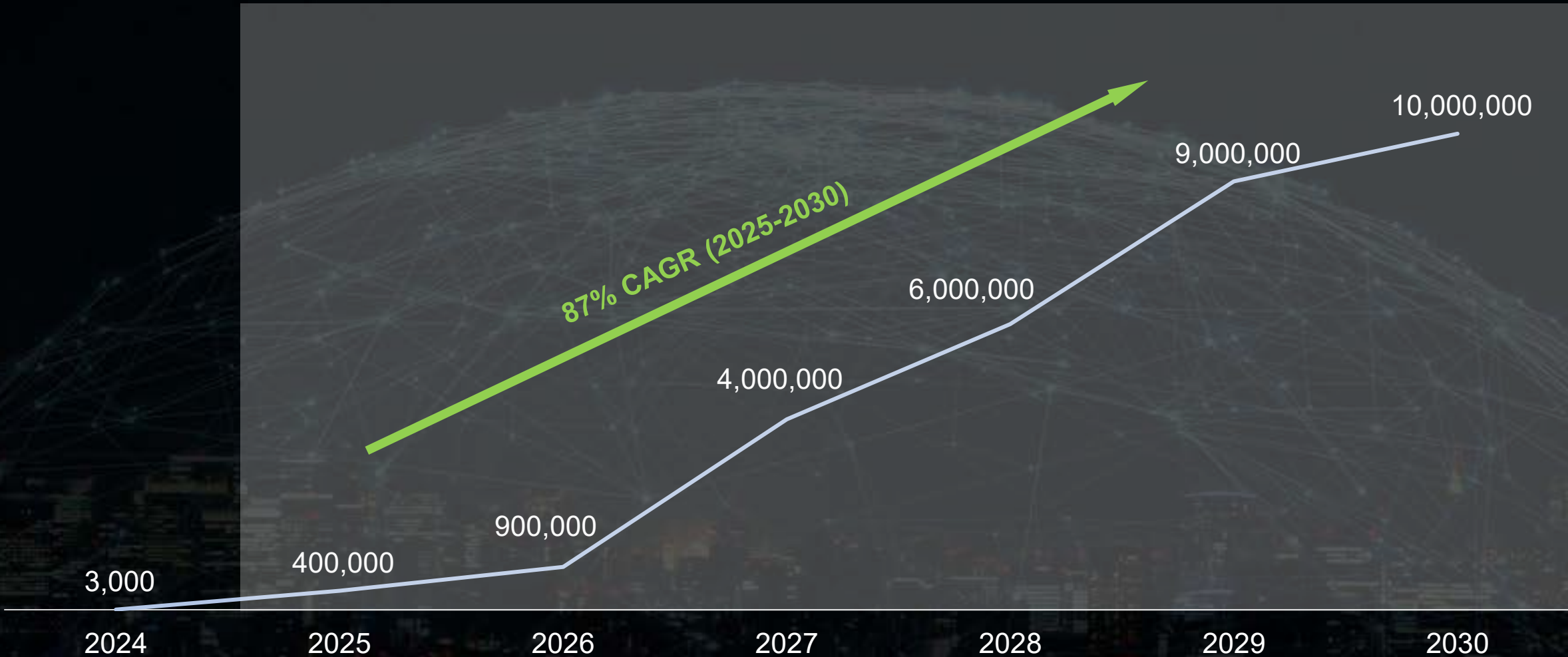


Thaicom's Subsidiary, Space Tech Innovation (STI),
Secured a 184M USD ECA¹ Financing
with Deutsche Bank and Standard Chartered Bank
for the THAICOM 10 Satellite

Non-GEO broadband satellite partnership and multi-orbit solutions: Goals and results

GOAL: Multi-Orbit annual revenue is projected to grow at a compound annual growth rate (CAGR) of approximately **87%** from 2025 to 2030.

Unit: USD





Short-Term Goal: To expand Globalstar gateway and tracking services into new segments including government, defense, and logistics

Long-Term Goal: To continue operating Globalstar gateway and expanding services into neighboring countries

Key Achievements: 2024 - 2025



Implement Globalstar
Gateway Expansion



Ship Tracking Service
Expansion



Personal Safety Service
Deployment for Forestry Projects

Short-Term Goals:

- 1. Expand existing CarbonWatch product and CropWatch projects nationwide
- 2. Develop new intelligence and ESG solutions

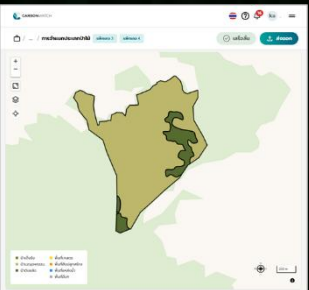
Key Achievements:

2024 (full year)

Commercialized Projects (6 projects)

For example:

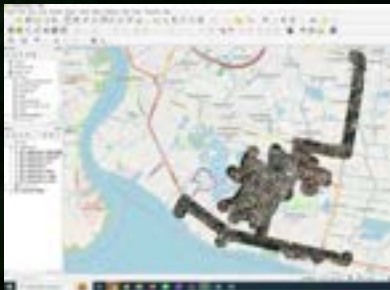
FT¹ & FCD²
Analysis (MFLF³)



Cell Tower
Inspection (LTC⁴)



Industrial Base Map
(PTTNGD⁵ & AmataNGD⁶)



Long-Term Goals:

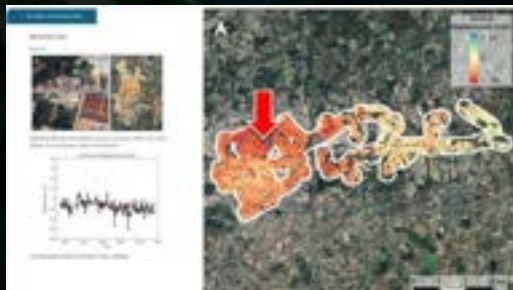
- 1. Establish a reputation as a trusted Geospatial Intelligence (GEOINT) partner for both government and enterprise sectors
- 2. Expand services to regional markets, e.g., Lao PDR, etc.

2025 Progress (Jan-July)

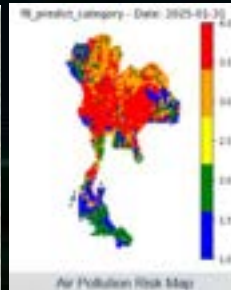
Commercialized Projects (7 projects)

For example:

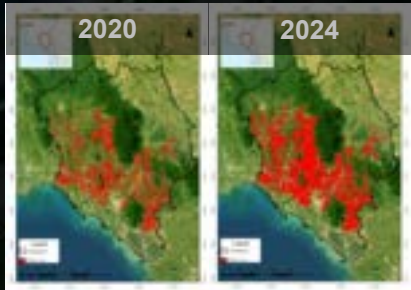
Land Displacement Monitoring
(PTTNGD⁵ & AmataNGD⁶)



PM2.5 Forecast
(TISTR⁷)



Durain Platform
(ARDA⁸)



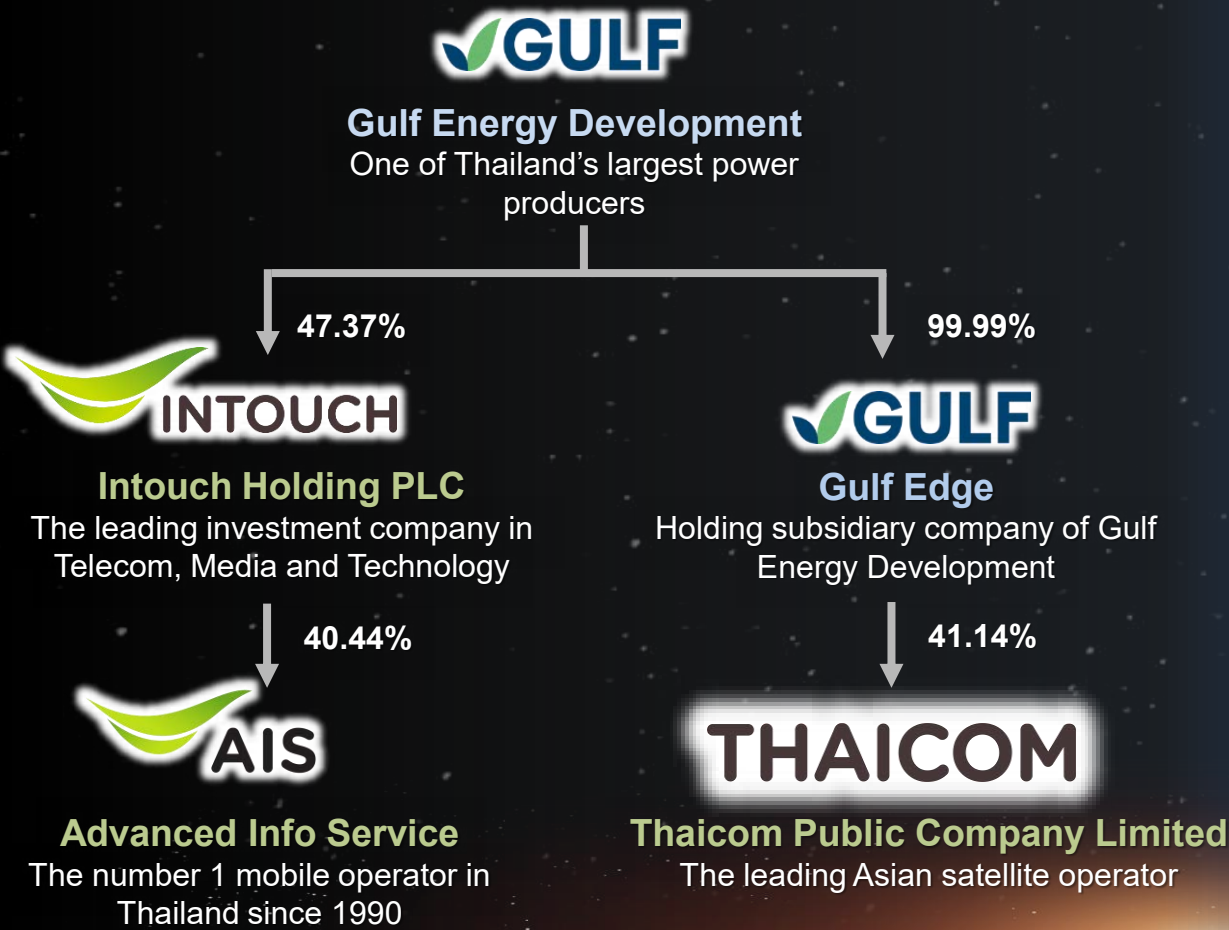
THAICOM

To empower people with **Innovative Space Technology** for a better life

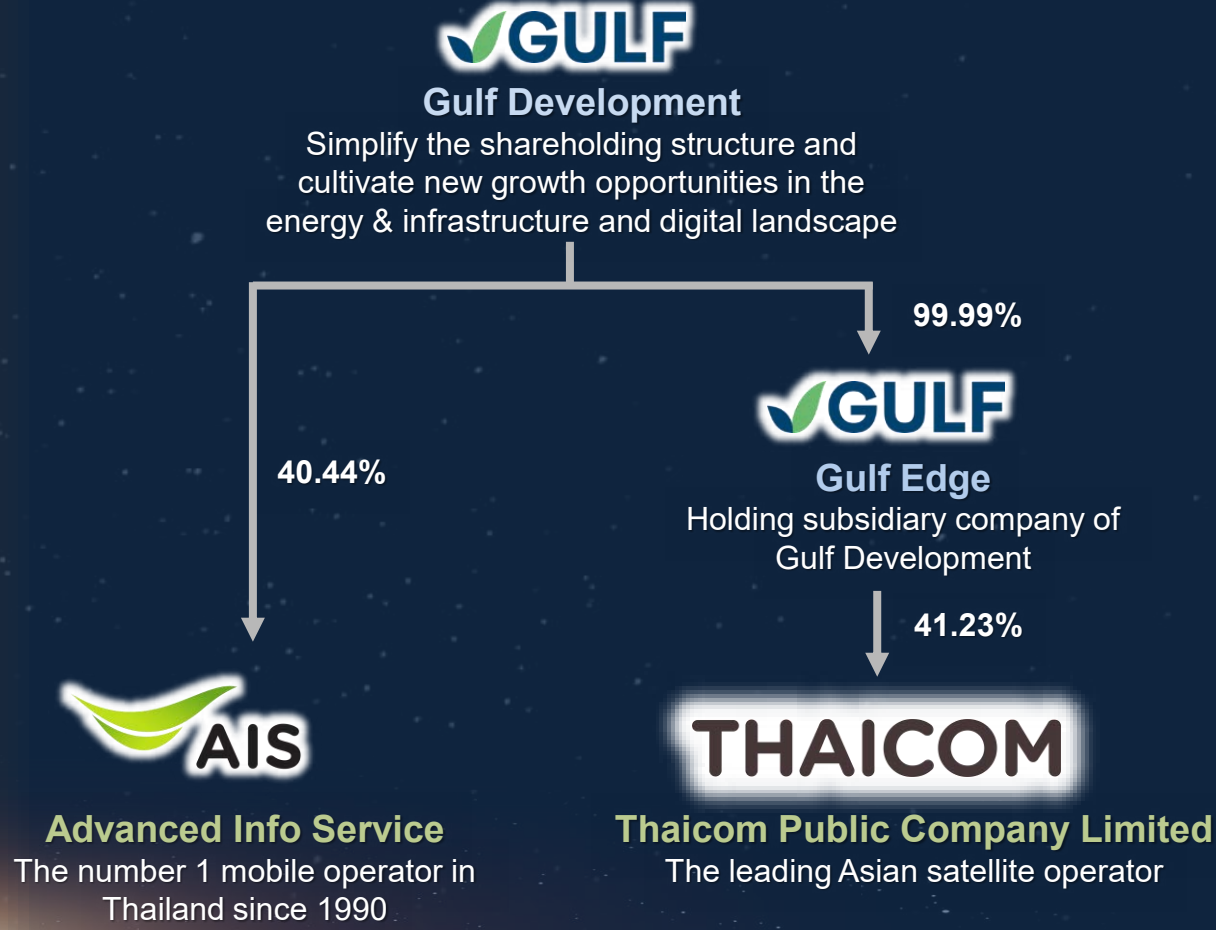
APPENDIX



Pre-Amalgamation Shareholding Structure



Post-Amalgamation Shareholding Structure¹



1. Effective on 1 April 2025

Satellite Communications

1. Broadcast

Key Customers

- Satellite TV in Thailand & Southeast Asia

2. Broadband

Key Customers

- Government subsidized rural internet in Asia (USO)¹

Space Tech

3. Space Tech

Key Customers

- Government agriculture & forestry
- Enterprise carbon credit

4. LEO²

Key Customers

- Consumer broadband
- Mobility (Planes & Ships)

5. Defense

Key Customers

- Armed Forces and Security Units



Strategies Towards Sustainability

Doing Business with Responsibility



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



- 1.Develop employees' skills, working performance, and knowledge
- 2.Promote employee well-being and engagement
- 3.Create communication opportunities for social development using innovation through satellite systems and digital media.



Caring for People and Society



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



Thaicom loves Earth



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



Communications
Rural Internet Access



Achieved the expansion of technology access to reach 26 communities in 2025



Health
Telemedicine



Education
Long Distance Learning



Achieved the expansion of education through satellite internet, enabling the management of educational activities in 24 learning centers, covering 850 students in 2025.



Environment
Community Forest Management



Goal

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

Deployment Highlights

- **SATCOM on the Move (SOTM)**
 - ✓ High-speed, stable satellite connectivity **while in motion**
 - ✓ Enables **real-time, continuous communication** in remote areas
- **AIS Network Enhancement**
 - ✓ Temporary 4G/5G **mobile cell sites** deployed in the field
 - ✓ Supports **command-to-field coordination**

Extended Support

- **Fixed Satellite Terminals (FSTs)** installed at key command centers
- Facilitates **secure internet access** for military teams in remote zones
- Enhances readiness, situational awareness, and mission effectiveness



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