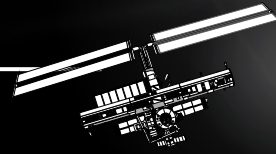


For more information
www.gistda.or.th

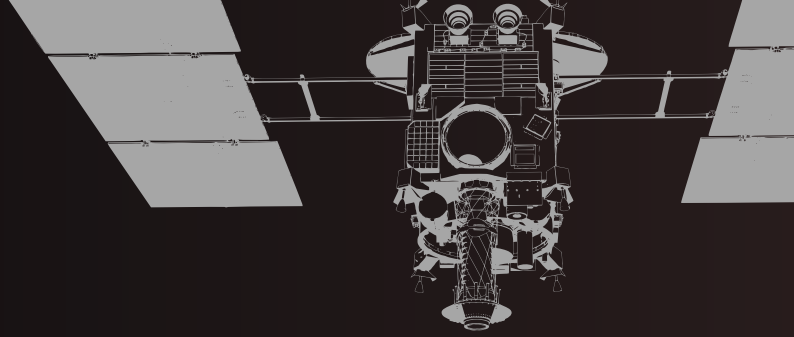


THAILAND NEW SPACE DIRECTORY 2023



GISTDA

Content



INTRODUCTION GISTDA

- History
- Technology Development Program
- Partnerships
- Promotion

1

2

JOURNEY

The chronological progression of Thailand's developments and achievements in the field of space exploration and technology.



3

THAILAND SPACE ECOSYSTEM

Vital numerical data reflecting Thailand's impactful role in space activities, encompassing satellite launches, revenue, research investment, and related metrics.



4

SPACE TECHNOLOGY THAILAND

- Space Manufacturing
- Satellite operations and services
- Space Application & services
- Space Related Business



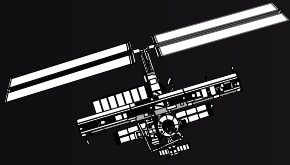
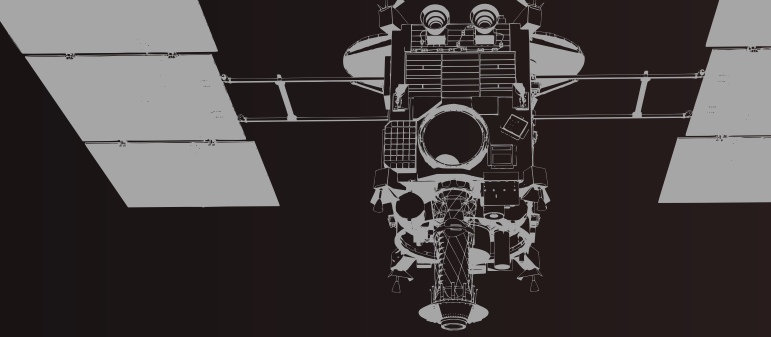
CLUSTER

- Company
- Education
- Government
- Startup

5



Thailand Space Ecosystem



Satellite Development and Launch: Thailand has been developing and launching satellites for various purposes, including communication, Earth observation, and scientific research. GISTDA had launched several Earth observation satellites, such as Thaichote and THEOS (Thailand Earth Observation System), to monitor and manage the country's natural resources and environment.



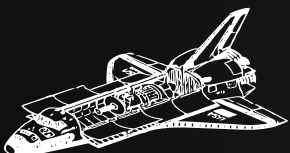
International Collaborations: Thailand has established partnerships and collaborations with international space agencies and organizations. These collaborations helped Thailand gain access to advanced technology, expertise, and resources in space-related fields.



Space Research and Education: Several universities and research institutions in Thailand were involved in space research and education. They focused on areas such as satellite technology, space physics, and astronomy. Efforts were being made to promote STEM education and inspire the younger generation to pursue careers in space science and technology.



Space Policy and Regulations: The Thailand Space Policy Committee was responsible for formulating policies and strategies to guide the country's space activities. The government aimed to create a favorable regulatory environment to attract both domestic and foreign investments in the space sector.

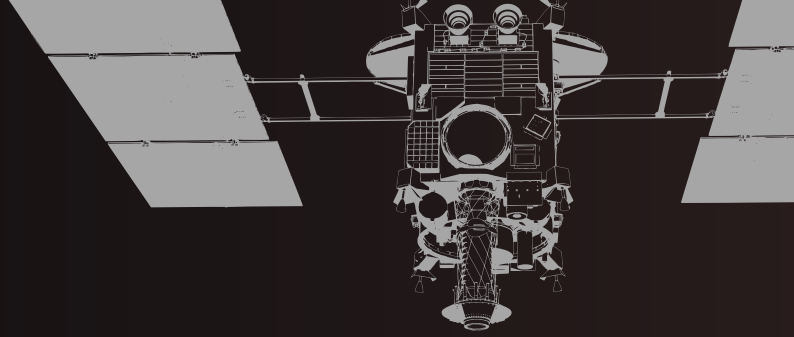


Commercial Space Ventures: The space industry in Thailand was gradually expanding to include commercial ventures. Startups and companies were emerging to provide services such as satellite imagery, communication solutions, and space tourism.



Regional and Global Initiatives: Thailand actively participated in regional and global space initiatives, including collaborations within the Association of Southeast Asian Nations (ASEAN) and participation in international space forums.

Introduction Gistda



Name

Geo-Informatics and Space Technology Development Agency (Public Organization) : GISTDA

Vision

To be an organization that brings together the values of space technology and geo-informatics for the greatest benefit of humanity.

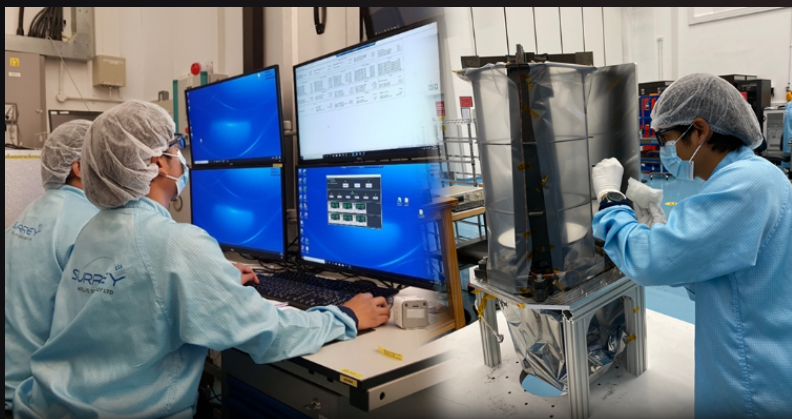
Objective

Developing geo-informatics and space technology as a non boundary knowledge for the country development.

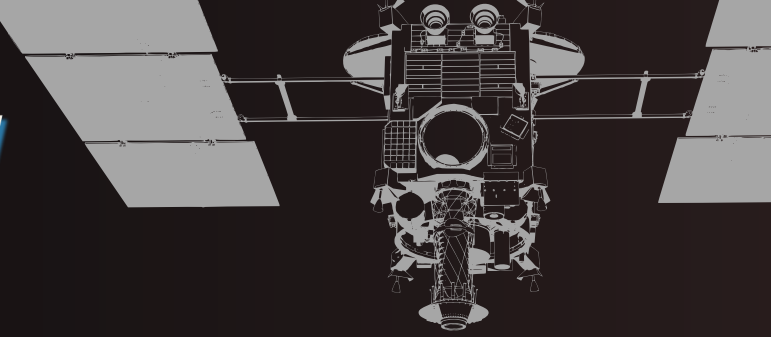
Roles

Under the legal provision of the royal decree establishing Geo-Informatics and Space Technology Development Agency (Public Organization) B.E. 2543 (B.C. 2000) Section 7, The Agency shall have the objects as follows:

- To develop space technology and geo-informatics applications, as borderless knowledge, to be beneficial to the general public;
- To study and analyse the satellite database and to serve as a centre for satellite based geo-informatics data and surveying data from other resources;
- To provide data services relating to space technology and geo-informatics including producing maps and other relevant services;
- To provide equipment, design, and other services through applying knowledge from space technology and geo-informatics to state agencies;
- To provide consultation and personnel development services in satellite remote sensing and geo-informatics;
- To study, research, develop, and carry out other activities relating to, or incidental to, space technology, including to provide and develop satellites systems;
- To be the core organization responsible for setting up standards for remote sensing and geo-informatics systems and providing services for verifying the implementation of the standards and encouraging the use of standards for space technology and geo-informatics;
- To support and provide service based on cooperation both at national and international levels.



Space Technology Thailand



1

Space Manufacturing

- Com/Nav Satellites
- Earth Observation Satellites
- Scientific Satellites
- Deep Space Satellites
- CubeSats
- Robotic Systems
- Specialized Payloads/Instruments
- Supporting Structures
- Expandable Structures
- Deployment/Retrieval Systems
- Thermal Insulation
- Satellite Navigation Devices
- Motion Control Systems
- RF/Microwave Devices
- On-board Processors
- Digital Communication Devices
- Spacecraft Software
- Reflector Antennas
- Phased-Array Antennas
- Helical Antennas
- Mechanism Components
- Mechanical Parts
- Electrical/Electronic Components
- Metal Components
- Surface Coatings
- Composite Structures

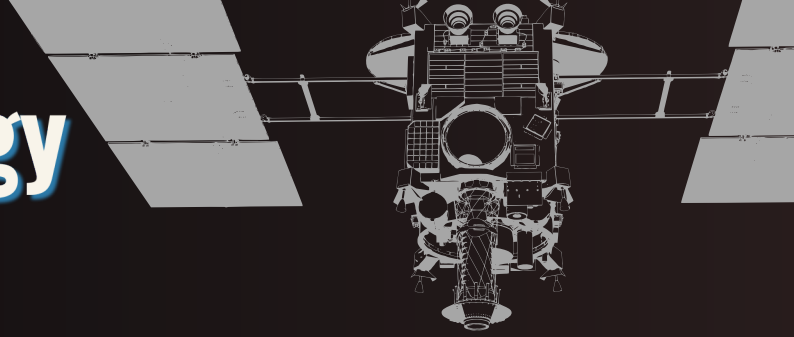
2

Satellite operations and services

- On-orbit operations
- Mission planning
- Payload operations
- Telemetry, tracking, and command (TT&C)
- Data management and analysis
- Mission Control Center (MCC)
- Satellite anomaly resolution
- Ground Control Centers
- Payload Control Centers
- Ground Stations
- Antenna Systems
- RF Equipment
- Ground Station Baseband Equipment
- Ground Station Monitoring and Control Systems
- Ground System Control Software
- Orbit Determination Software
- Spacecraft/Payload/Ground Segment Simulators
- Mission Analysis Software
- Ground Segment Infrastructure
- Payload Operations Applications
- Ground Support Equipment
- Spacecraft Operations and Maintenance
- Ground System Software Engineering
- Ground System Services
- Ground System Operations



Space Technology Thailand



3

Space Application & services

- Internet Services
- TV Services
- Phone Services
- Radio Services
- Machine-to-Machine (M2M) Services
- VSAT (Very Small Aperture Terminal) Services
- Disaster Recovery Services
- Remote Sensing Services
- Navigation Services
- Satellite-based Meteorology Services
- Satellite Imaging Services
- Weather information
- RF (Radio Frequency) data
- Visual data
- Orbital transfer services
- In-orbit testing and validation services
- Hosted payload services
- Teleportation services
- Satellite internet services
- Communication services (including secure and resilient communication)
- Emergency and disaster management services
- Electronic health and telemedicine services
- Flood management services
- Land and forest monitoring services
- Change detection services
- Monitoring of atmospheric parameters
- Biomass monitoring services
- Crop monitoring services
- Renewable energy monitoring services
- Security applications and services
- Maritime surveillance services
- Transport of hazardous materials
- Tourist and leisure applications and services
- Media applications and services
- Applications and services for steel and banking industries
- Location-based services and applications
- Smart grid services
- Sensor network services

4

Space Related Business



• Media

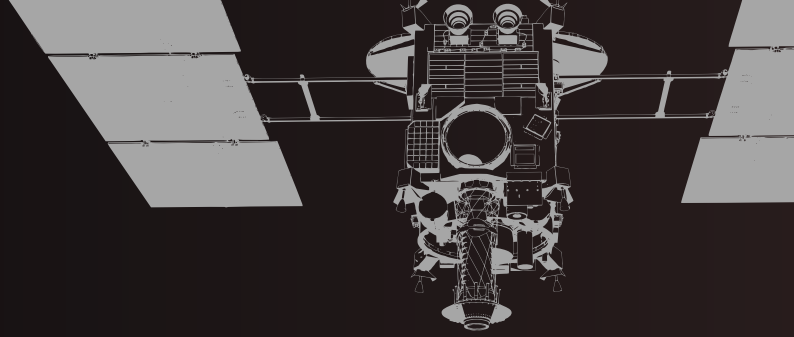


• Finance



• Consult

Cluster



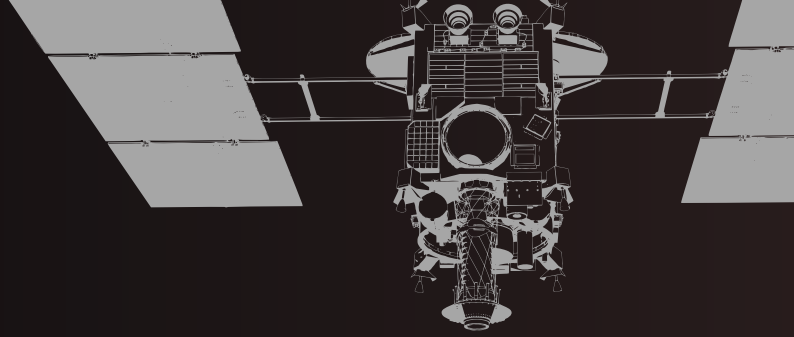
Company

- ASIA COMPOSITE MATERIALS (THAILAND)
- BTS TOOLS MANUFACTURING (THAILAND)
- CNC TECH
- FABRINET
- SATYS ELECTRIC (THAILAND)
- THALES (THAILAND)
- TOP ENGINEERING CORPORATION
- Aeroworks Composites (Asia)
- Carbon Magic (Thailand)
- CCS Advance tech
- Cherrytech Group
- Ducommun Technologies (Thailand)
- Gravitech Thai (Thailand)
- Jinpao Precision Industry
- Lenso Aerospace
- Micromatics
- Senior Aerospace (Thailand)
- Synergy Technology
- QARBON AEROSPACE (THAILAND)
- Benchmark Electronics (Thailand)
- Planet Communications Asia
- Platt Nera International Limited
- R V Connex
- SSC Space (Thailand)
- Thaicom Public
- ASTROBERRY
- Asia Precision

Education

- Chulalongkorn University
- Kasetsart University
- Suranaree University of Technology
- Assumption University
- King Mongkut's University of Technology North Bangkok (KMUTNB)
- King Mongkut's Institute of Technology Ladkrabang (KMITL)
- Thammasat University
- Burapha University
- Khon Kaen University
- Prince of Songkla University
- Mahidol University
- Naresuan University

Cluster



Government

- The Civil Aviation Authority of Thailand (CAAT)
- National Broadcasting and Telecommunication Commission (NBTC)
- Thai Aviation Industries Co.,Ltd. (TAI)
- Royal Thai Air Force (RTAF)
- National Astronomical Research Institute of Thailand (NARIT)
- National Telecom Public Company Limited (NT)
- National Innovation Agency (NIA)
- Thailand Board of Investment (BOI)
- Geo-Informatics and Space Technology Development Agency (GISTDA)
- Defence Technology Institute (DTI)

Startup

- NB Space
- Irissar
- Plus IT Solution
- EmOne (Thailand)
- GAORAI Business Solutions
- Spacedox
- Delvaerospace
- i-bitz
- LEET Intelligence
- VECTOR DYNAMICS
- Mu Space and Advanced Technology
- iEmtek
- Manee Lab
- Mush Composite
- Teveda Corp
- VAAM
- Advance Space Composite
- Semi-Latus Rectum
- Solutions Maker

Startup

Overview

EmOne was established in 2015, and its registered office in Bangkok, Thailand, and 2021 Tallinn, Estonia, EmOne aims to use O2O Intel-orbital transportation technology & Space debris recycling space technology. Professional in embedded systems and Aerospace industries. Providing a solution to solve any client's complex problems and offering edge technology to make your dream comes true. EmOne offers a wide range of products and services, including but not limited to Data logger control units, Underwater devices, Renewable Energy Harvest & Systems, Clean Technology, IoT & Telecommunication and Space Tech.

Type of Space Capabilities

- ✓ **Space Manufacturing**
Scientific Satellites, Deep Space Satellites, Robotic Systems, Electrical / Electronic Components
- ✓ **Satellite operations and services**
On-orbit operations, Mission planning, Payload operations
- ✓ **Space Application & services**
Orbital transfer services, In-orbit testing and validation services

Capabilities, Products and Services

O2O Intel-orbital logistic provider / Inter-orbital space debris management and recycling

Contact

-  <https://www.emone.co.th>
-  39/1 Soi. Sangkhom Songkhro 12 Lat Phrao, Bangkok 10230
-  info@emone.space
-  [+66985851280](tel:+66985851280)

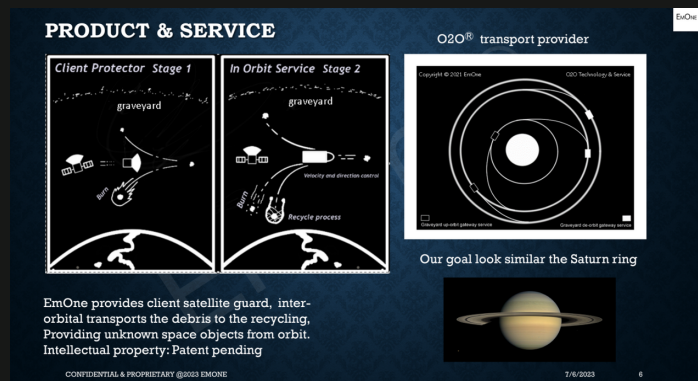
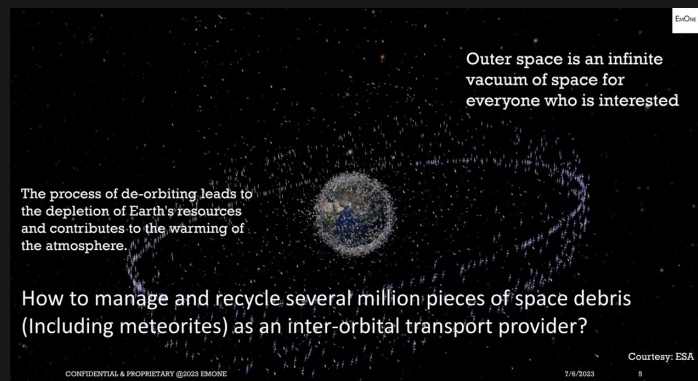
Partnership offering

Satellite guard, Inter-orbital logistic provider and Gain constellation satellite

Partnership Expectation

Nation space agencies, Constellation satellite, Satellite owner and Assurance company

Startup



Overview

irissar Co., Ltd. has been established in Thailand in 2021. We are focusing on two main business areas, which are radar technologies and space technologies. The main business core at the moment is the design, development and manufacturing of radars for industrial, defense and medical applications. The space business unit focuses on the development of propulsion systems for small satellites and spacecrafts.

Type of Space Capabilities

- ✓ Space Manufacturing
CubeSats

Capabilities, Products and Services

irissar has long-term experience in radar technologies and related electronics. We design, develop and manufacture radar devices and systems in Thailand, so that to reduce the lead time and to keep our services reachable by our customers within a day.

For our space business area, irissar has also some facilities for the development of space components such as hot-gas thrusters and some small satellite structures.

Partnership offering

Development and manufacture of propulsion systems for small satellites

Contact

- 🌐 <https://irissar.com/>
- 📍 19/2, Moo 3, Rama 2 Rd. T. Bangtorad, A. Muang, Samutsakhon 74000
- ✉ info@irissar.com
- ☎ 061-315-4769, 095-593-5351



Education




Overview

Burapha University has been consistently developed in terms of physical environment, personnel, and administration. In order to do so, a number of new organizations were established and the administration was also extended, aiming for more effective pedagogical management; for instance, Chanthaburi Campus was established in 1996 and one year later Sakaeo Campus was established. Burapha University offers numerous educational levels: Bachelor's Degree, Master Degree, and Doctoral Degree in Social Sciences, Health Science, and Science and Technology.

Capabilities, Products and Services

The department of advanced material engineering has different testing machines as: UTM, DMA-DSC, Injection machine, Microscope

Contact

-  Materials Engineering at BUU
-  169 Long-Hard Bangsaen Road Saensook, Muang, Chonburi 20131, Thailand
-  komkrisd@eng.buu.ac.th



Partnership offering

Education, training, research, consulting

Partnership Expectation

Internship for Bachelor students, grant for master/phd, research collaboration



Overview

The Aircraft Maintenance Technician which was approved and certified by the Civil Aviation Authority of Thailand (CAAT)

Type of Space Capabilities

- ✓ **Space Manufacturing**
 Robotic Systems, Motion Control Systems, RF/Microwave Devices, Digital Communication Devices, 21. Mechanism Components, Mechanical Parts, Electrical/Electronic Components,
- ✓ **Satellite operations and services**
 Ground Stations, Ground Segment Infrastructure, Ground Support Equipment, Ground System Software Engineering, Ground System Operations

Capabilities, Products and Services

To be a leader in the field of shaping and developing a highly skilled manpower for the sustainable future

Partnership offering

TG/PG/Senior Aerospace/Lenso Aerospace/ Makino/Qualitech/Bags Groundservices/Aviation Biz/Sky Image Tech

Partnership Expectation

CAAT

Qualification & Approvals / Certification

Approved Aircraft maintenance Technician by CAAT with B1.1/7 CB of TPQI /11 testing center of Department of skill development

Contact

- ประชาสัมพันธ์วิทยาลัยเทคนิคสัตหีบ Thai-Austrian Technical College
- Thai - Austrian Technical College KM.160 193 Moo 3 Na Jomtien Sattahip , Chonburi 20250
- saraban@tatc.ac.th
- 038-238398, 038-238527

Education



Government

Overview

DTI is a Public Organization under the supervision of the Thai MOD. DTI conducts R&D in Defence Technology as well as currently reaches out to the Industrials. Here, 8 main technologies are promoted - Rocket and Missile, Armored Vehicle and Weapon, Unmanned Systems, Simulation & Simulator, ICT, Energy, AI, and Space Technologies.

Apart from our R&D mission, we also develop Knowledge Management Center for Def Tech, and encourages collaborations among Def Tech Community as well as promote a Good Governance Practice in order to achieve Sustainable Development Goals.

Type of Space Capabilities

- ✓ **Satellite operations and services**
Ground Support Equipment
- ✓ **Space Application & services** Security applications and services, Maritime surveillance services

Capabilities, Products and Services

Rocket Test Facilities, Tracking Radar for SSA/STM purposes, Ground Telemetry System

Partnership offering

Service fee reduction through MOU/MOA, R&D Collaboration, and JVs

Partnership Expectation

MOU/MOA, R&D Collaboration, JVs, etc.

Qualification & Approvals / Certification

ISO 9001:2015

Contact

-  www.dti.or.th
-  saraban@dti.or.th
-  029806688
-  Defence Technology Institute
-  Defence Technology Institute (@dtithailand)
-  Defence Technology Institute
-  @DTIthailand
-  (Chaengwattana) Building, 5th Floor, No. 47/433 Moo 3, Chaengwattana Road, Ban Mai Subdistrict, Pak Kret District Nonthaburi 11120



The Civil Aviation Authority of Thailand



Overview

The Civil Aviation Authority of Thailand (CAAT) is an independent agency of the Thai government under the oversight of the Minister of Transport. Its responsibilities include prescribing, regulating, and auditing Thai Civil Aviation.

Vision

"Standard toward Sustainability"


Mission


- To promote and develop efficient and sustainable civil aviation activities
- To maintain and improve equitable and international standard regulatory system
- To continuously monitor and implement standards and recommended practices of international organizations
- To continuously develop the organization, its personnel and the supporting system


Capabilities, Products and Services


prescribing, regulating, and auditing Thai civil aviation.

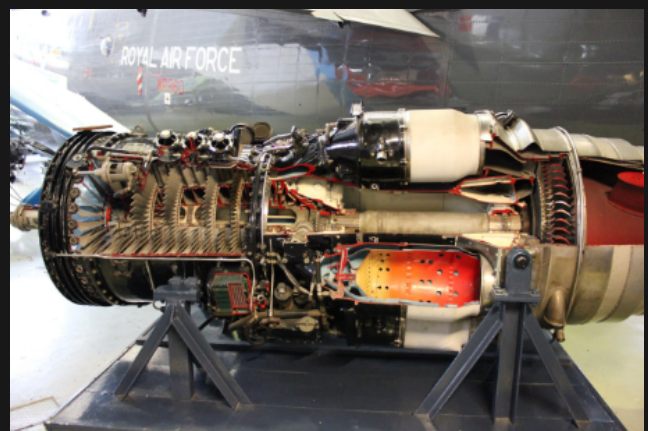
Contact

 <https://www.caat.or.th/>

 saraban@caat.or.th

 02-5688800

 333/105 Lak Si Plaza, Khamphaeng Phet 6 Rd., Talat Bang Khen, Lak Si, Bangkok 10210



Overview

The Thailand Board of Investment (BOI) was established in 1997 as a government agency under the Office of the Prime Minister. Its primary mission is to provide investment incentives to both domestic and foreign entrepreneurs interested in participating in BOI-promoted activities. The BOI plays a crucial role in promoting and facilitating valuable investments, both within Thailand and for Thai businesses seeking to invest overseas. It achieves this by offering a range of tax-based and non-tax-based incentives to eligible companies that meet the BOI's criteria and conditions.

Capabilities, Products and Services

The space industry is one of the targeted sectors for the Thailand Board of Investment (BOI). As of 2023, the BOI's eligible activities in the space industry include:

- Manufacture of space equipment (Must manufacture space products and equipment such as spacecraft, satellites, and propulsion systems for guided rockets and space vehicles.)
- Manufacture of mechanical parts and/or electronic parts for satellites or space objects of various form
- Design and development of system or software related to satellites and ground stations (Must have design and development of system or software such as system or software for satellite platform, payload system, searching system, space debris mitigation system or space navigation system.)
- Space launching services or manufacture of launch mission control systems
- Aerospace support activities (Must conduct aerospace support activities such as testing laboratory for satellites and other space objects and/or standard certification for parts.)

Type of Space Capabilities

- ✔ Space Related Business

Contact

www.boi.go.th

head@boi.go.th

02-553-8111

555 Vibhavadi-Rangsit Road, Chatuchak Bangkok 10900 Thailand

Government

WHAT IS BOI?

BOI or the Office of the Board of Investment is a government agency with its mission to support and promote investment from the private sector and focus on:

"Promoting valuable investment in both investment into Thailand and Thai overseas investment to enhance Thailand's competitiveness, to overcome the 'Middle Income Trap', and to achieve sustainable growth in accordance with the sufficiency economy philosophy"

by granting tax incentives and facilitating both Thai and foreign investors interested in investing in Thailand.

Tax Incentives

- ✓ Exemption of corporate income tax for up to 13 years (according to activities and conditions).
- ✓ 50% reduction in corporate income tax for up to 5 years.
- ✓ Exemption of import duties on machinery.
- ✓ Exemption of import duties on raw materials used in production for export.
- ✓ Exemption of import duties on raw or essential materials used in research and development purposes.

Non-Tax Incentives

- ✓ Permission for foreign nationals to enter the Kingdom to study investment opportunities.
- ✓ Permission to bring in skilled workers/experts to work in the Kingdom.
- ✓ Permission to take out or remit money abroad in foreign currency.
- ✓ Permission for promoted projects to own land.

INCENTIVE PROVISION

The Office classifies different incentive groups according to the importance of industries/activities as follows:

Group A1*: Covers upstream industries utilizing advance technology and innovation, and targeted technology development activities (biotechnology, nanotechnology, advanced material technology), with technology transfer in collaboration with academic/ research institutes.

Group A1: Knowledge-based activities focusing on R&D and design to enhance the country's competitiveness.

Group A2: Infrastructure activities for the country's development, activities using advanced technology to create value with no or very few existing investments in Thailand.

Group A3: High technology activities which are important to the development of the country, with a few investments already existing in Thailand.

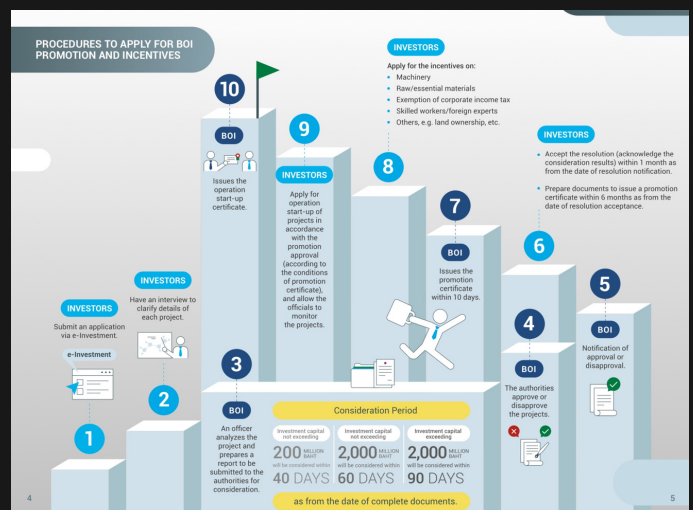
Group A4: Activities with lower technology than A1-A3 but which add value to domestic resources and strengthen the supply chain.

Group B: Supporting industry that does not use high technology, but is still important to the value chain.

Activity Group	Incentives			
	Exemption of corporate income tax	Exemption of import duties on raw materials on machinery	Exemption of import duties on raw materials used in research and development	Non-tax incentives
A1*	10-13 years no cap	✓	✓	✓
A1	8 years no cap	✓	✓	✓
A2	8 years*	✓	✓	✓
A3	5 years*	✓	✓	✓
A4	3 years*	✓	✓	✓
B	-	✓	✓	✓

*Corporate income tax exemption cap of 100% of investment capital (including cost of land and working capital)

PROCEDURES TO APPLY FOR BOI PROMOTION AND INCENTIVES



1. INVESTORS: Submit an application via e-Investment
2. BOI: An officer analyzes the project and prepares a report to be submitted to the authorities for consideration
3. INVESTORS: Have an interview to clarify details of each project
4. BOI: The authorities approve or disapprove the projects
5. BOI: Notification of approval or disapproval
6. INVESTORS: Prepare documents to issue a promotion certificate within 6 months as from the date of resolution acceptance
7. BOI: Issues the promotion certificate within 10 days
8. INVESTORS: Apply for the incentives on:
 - Machinery
 - Raw/essential materials
 - Exemption of corporate income tax
 - Skilled workers/foreign experts
 - Others, e.g. land ownership, etc.
9. INVESTORS: Apply for operation start-up of projects in accordance with the promotion approval (according to the conditions of promotion certificate), and allow the officials to monitor the projects
10. BOI: Issues the operation start-up certificate

Consideration Period

Investment capital and exemption	Investment capital not exceeding	Investment capital exceeding
200 MILLION THB	2,000 MILLION THB	2,000 MILLION THB
40 DAYS	60 DAYS	90 DAYS

as from the date of complete documents.

Company

Overview

DSenior Aerospace (Thailand) Ltd. is a subsidiary of Senior plc - an international manufacturing group. Split into two divisions; Aerospace and Flexonics. Senior designs, manufactures and markets high-technology components and systems for the principle original equipment producers in the worldwide aerospace, land vehicles, and energy markets.

Type of Space Capabilities

- ✓ **Space Manufacturing**
Supporting Structures, Expandable Structures, Mechanical Parts, Metal Components

Capabilities, Products and Services

We are principally a manufacturer of aerofoils, aluminum and hard metal structural parts, and premium aircraft seat structures. Some of the parts we manufacture include platform components for the Airbus A320, A330, and A350, as well as engine/structure components for the Boeing 737, 767, 777, and 787. On top of being AS9100 and NADCAP certified, we are also a certified supplier of Airbus, Boeing, Rolls Royce, MTU Aero Engines, Pratt & Whitney Canada, GKN Aerospace, Spirit Aerosystems, Kawasaki Heavy Industries, Subaru, and Safran Group. We reinvest our profits in new technology and plant to maintain and expand our strategic core capacities in cutting-edge 3, 4, and 5 axis machining, robotic shot peening machines, and VIPER grinding machines (5-Axis Grinding). Our facilities also have areas available to support future opportunities for business growth for both Aerospace (aeroengines and aerostructures) and Non - Aerospace.

Partnership offering

Machine parts

Partnership Expectation

Help to design and machine parts


Qualification & Approvals / Certification


AS9100 and ISO9001, ISO14001 and ISO45001, ISO17025, NADCAP, and all customers approval.

Contact

 <https://www.senior-thailand.com/>

 info@senior-thaiand.com

 +66(33)047281-5

 789/115-6 Moo 1, Nongkham Sriracha, Chonburi, 20230, Thailand



Overview

Carbon Magic Thailand (CMTH) is a joint corporation of Toray Industries, Inc., Toray Carbon Magic Co., Ltd. and the Saha Group in Thailand. CMTH joined the Toray Group together with Toray Carbon Magic in April 2013. (The predecessor of CMTH, Dome Composite (Thailand) Co., Ltd. was established in September 2005.) To cope with the rapidly increasing demand for composite molding products, CMTH constructed a new factory with a capacity 10 times greater than the former factory in 2016. CMTH prepares systems to meet the various needs.

Capabilities, Products and Services

The mass-production factory in Thailand produces many high-quality CFRP products used in various industries, such as aircraft, automobiles, motorcycles, railways, and industrial equipment.


Type of Space Capabilities


- ✓ **Space Manufacturing**
Supporting Structures, Expandable Structures, Mechanical Parts, Metal Components

Qualification & Approvals / Certification


AS9100 ,ISO9001 and approved by the Thailand Board of Investment (BOI).






Contact

 <https://www.carbonmagic.com/cmth-en.html>

 jirawan@carbonmagic.co.th

 084-7837175 , (+66)038-482950

 100 Moo 1 Tambon Bueng, Amphur Sriracha, Chonburi 20230 Thailand

				
Aircraft Drone	Automobile Motorcycle	Railway Industrial	Medical	Consumer Goods
Business Class Sheet Drone Parts	Exterior Parts Interior Parts Seat Shell Racing Machine Parts	High-speed Rail Seats Industrial Robot Assist Suit	X-ray and CT Inspection Equipment MRI Inspection Equipment	Video Camera Cover Eyewear Sunglasses Frame

Overview

Lenso Aerospace is a leading aerospace manufacturer of precision and complex aircraft components in the area of ultra-high precision machining, sheet metal fabrication and build to print assemblies.

We have been providing total manufacturing solutions to the global aerospace industry with a proven track record of technical expertise to many applications such as Avionics, Engine Components, Aircraft Interior Components, Landing Gear Systems, System Control and Structural Components.

Capabilities, Products and Services

- **CNC Turning**

Lenso Aerospace specializes in high-quality CNC machining and turning services, catering to diverse production volumes and prototypes with precision and expertise.

- **CNC Milling**

Lenso Aerospace utilizes high-speed CNC machines for diverse component production, swiftly transforming 2D drawings into 3D CAD models and generating efficient CAM tool paths. This approach guarantees high precision and cost-effective machining components.

- **Sheet Metal**

Partnering with top quality AS9100 certified sub-tiers, Lenso Aerospace can meet your sheet metal requirements either as an assembly or as a standalone component. Lenso Aerospace will be bringing in-house Sheet metal manufacturing in 2017.

- **Surface Treatment**

Lenso Aerospace provides in-house priming, blasting, polishing, anodizing, and passivation services, including NADCAP treatments for Aerospace

- **Assembly**

Lenso Aerospace streamlines complex assemblies with one-stop procurement, simplifying your supply chain. Contact us for comprehensive solutions.

Type of Space Capabilities


- ✓ **Space Manufacturing**
Supporting Structures, Expandable Structures, Mechanical Parts, Metal Components


Qualification & Approvals / Certification


AS9100, NADCAP

Contact

 WWW.LENSOAERO.COM

 ns@lensoaero.com

 (+66) 02-1367555

 789/9 MOO 9, TIP PROJECT 7
LEAB KLONGSONGNAM SUVARNABHUMI ROAD
BANGPLA, BANGPLEE, SAMUTPRAKARN, 10540



Overview

Located in a major industrial zone within the Eastern Economic Corridor, 75 miles southeast of Bangkok, our Thailand facility has been manufacturing complex, hand-layup composite components and assemblies for the industry's leading civil airframes and engines for over 10 years.

Situated in a Free Trade Zone, in a highly competitive region and with proven performance as a sole source on high rate Single Aisle programs, Qarbon Aerospace Thailand has been a strategic supplier of best cost, build-to-print composite components to Europe, USA and China on platforms including A320, A350 and 787 Dreamliner. Qarbon Aerospace Thailand has 150,000 ft² of manufacturing space with a broad array of equipment and a highly skilled workforce to deliver product on-time with quality assured.

Capabilities, Products and Services

- Hand Layup with Laser Projection
- Benchtop Assembly
- Septumization and Acoustic Treatment
- Adhesive Film Reticulation
- Honeycomb Core Machining & Forming
- Chemical Processing



Type of Space Capabilities

- ✓ **Space Manufacturing**
Supporting Structures, Expandable Structures, Mechanical Parts, Metal Components

Qualification & Approvals / Certification

AS9100:DandISO9001:2015 ,Nadcap Composites, Nadcap NDT and Chemical Processing

Contact

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Overview

SSC (Swedish Space Corporation) is a global provider of advanced space services. SSC Space Thailand is a whole-owned subsidiary of SSC that operates in Thailand and aims to bring the full expertise and experience of SSC to Thailand:


Space-to-Ground Connectivity - We provide reliable communication links to spacecraft from LEO to Lunar through SSC global ground station network. We support all mission types and applications with various degrees of customization and project complexity. SSC has also proven experience and know-how in building, operating and maintaining new customer ground stations at our own sites and other locations. Besides, SSC can assist with engineering expertise through all phases of a space program.

Access to Space - SSC also designs sounding rocket vehicles, stratospheric balloon systems, testbed and payloads. From our arctic launching facility, the Espace Space Center, we have launched more than 570 sounding rockets and from 2023 we will be launching satellites up to 150 kg to a sun-synchronous LEO orbit with SmallSat Express™.

Capabilities, Products and Services

Ground Station Network Services, Science and Launch services, Engineering and Spacecraft services

Type of Space Capabilities

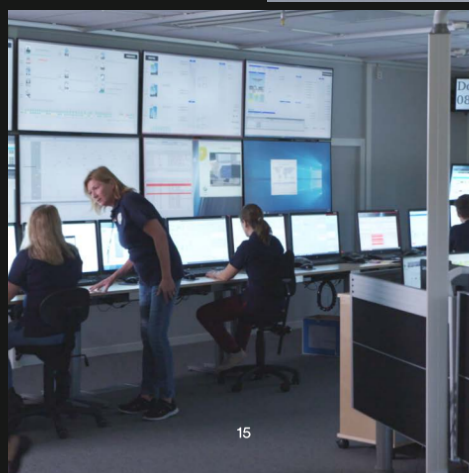
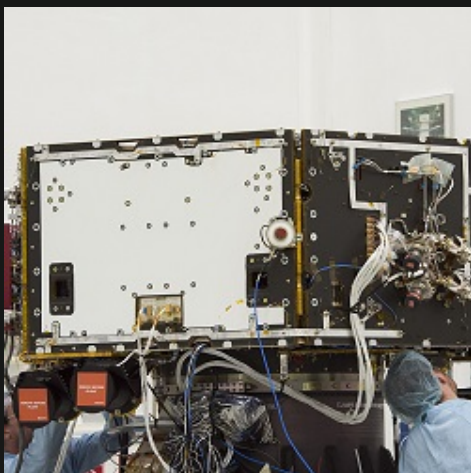
-  **Space Manufacturing**
Supporting Structures, Expandable Structures, Mechanical Parts, Metal Components

Qualification & Approvals / Certification

ISO9001:2015

Contact

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Overview

Thaicom is a leading Asian satellite operator and provider of integrated satellite communications since 1991.

A trusted partner of choice for many of the region's leading broadcasters, telecom operators, enterprise and government customers.

Thaicom offers a comprehensive portfolio of satellite communications designed to help its customers grow their markets in the digital era.

MISSION

- To be the number one space-tech company in Thailand and one of the top in the region.
- To grow our business through international partnerships.
- To build new digital capabilities to serve business opportunities of the future.
- To create value for the shareholders under the principle of corporate governance and foster sustainable development for all stakeholders.

Capabilities, Products and Services

• END-TO-END SATELLITE SOLUTIONS

We provide tailored satellite communications solutions on an end-to-end basis for broadcasters, the telecom industry and mobile network carriers, as well as businesses and governments operating in Asia-Pacific and Africa. By leveraging our growing fleet of satellites and leading innovations in satellite technology, we offer our customers the flexibility to deliver services that create value and help them thrive in the digital era.

BROADBAND

- Maritime (Nava)
- Cellular Backhaul
- Residential
- Government

VIDEO

- Satellite Distribution
- Transponder Leasing

PROFESSIONAL SERVICES

- Satellite Consulting

SPACE TECH SERVICES

- Earth Insights


Type of Space Capabilities

- ✔ **Space Manufacturing**
Supporting Structures, Expandable Structures, Mechanical Parts, Metal Components


Qualification & Approvals / Certification


ISO/IEC 27001:2013 , ISO 9001:2008
ISO 22301:2012

Contact

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**FOSTERING THE AERO-SPACE
CO-CREATION AS ONE
(F-1 PROGRAM)**



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