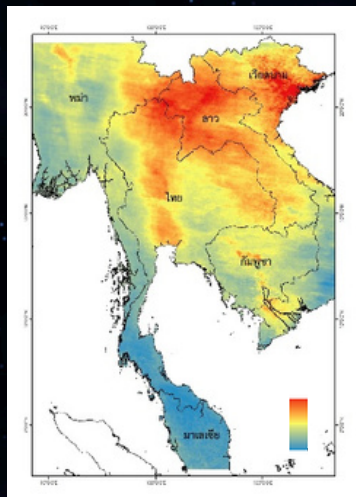


GISTDA AGENCY REPORT

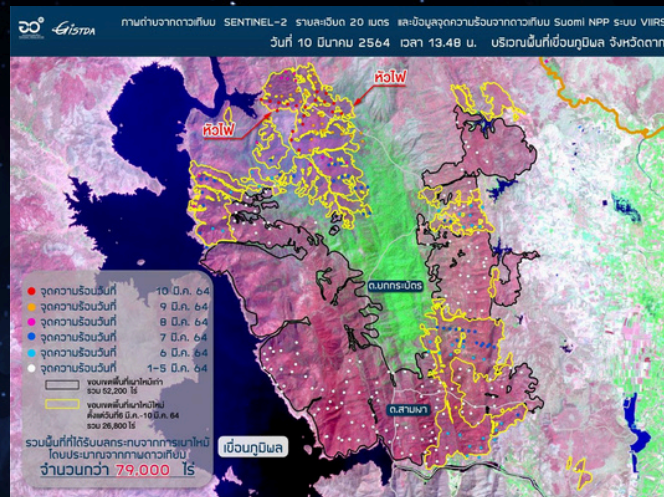
Pakorn Apaphant, Ph.D.
Executive Director
38th CEOS Plenary
22 – 24 October 2024
Montreal, Canada

Satellite Space Applications

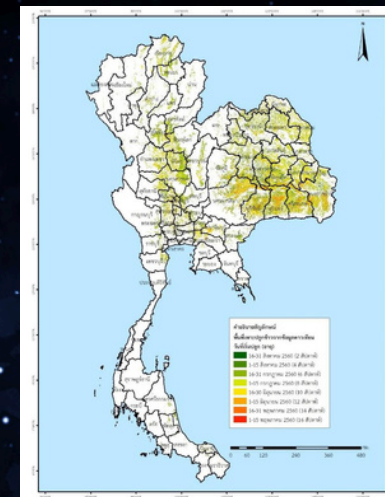
Air Quality



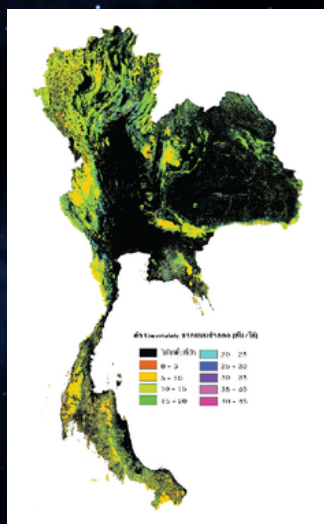
Forest Fire



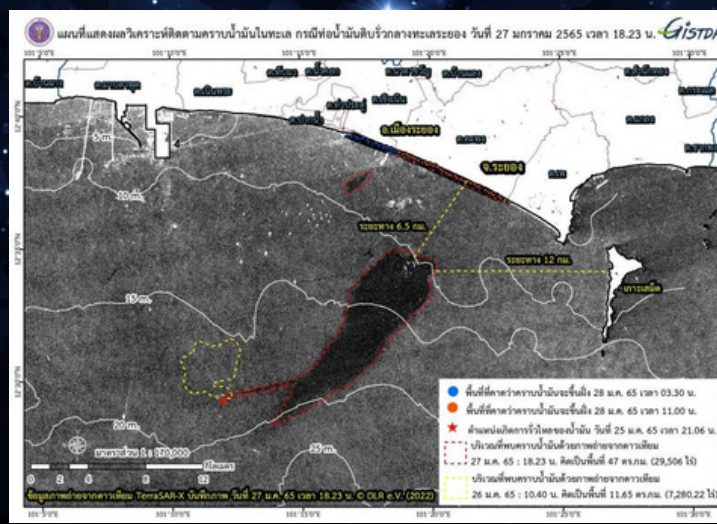
Agriculture



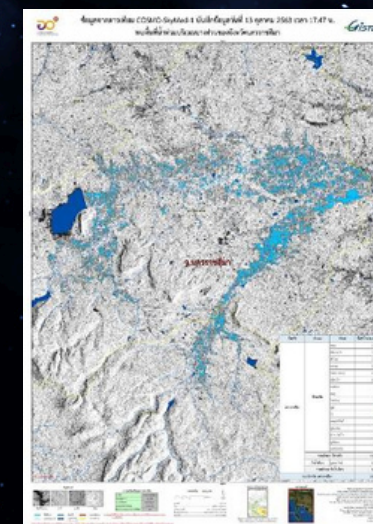
GISTDA



Forestry



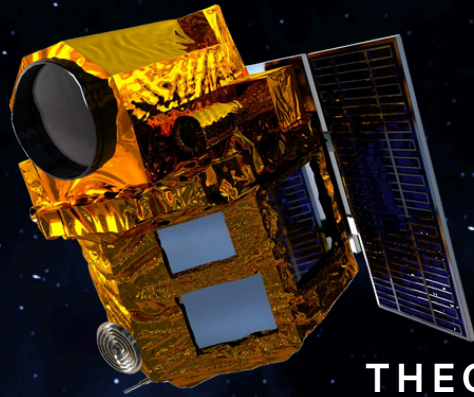
Oil Spill



Flood



"To Ensure Data Consistency Across Different Domains"



THEOS-1

Launched in 2008

Resolution: 2 M.

Payload :

- Imager Full SiC (Silicon Carbide)
- Telescope 2m (PAN)
- Refractive telescope 15m (MS)

Mass : ~750 kg

Dimensions : 2.1 m x 2.1 m x 2.4 m

Orbit: ~672 km Sun Synchronous -
Low Earth Orbit



THEOS-2

Launched in 2023

Resolution 50 CM.

Payload :

- Very high-res imager (KORSCH Type with 3 SiC mirrors) 0.5m (PAN), 2m (MS)

Mass : ~425 kg

Dimensions : 1.4m x 1.2m x 1.8m

Orbit : ~621 km Sun Synchronous -
Low Earth Orbit



THEOS-2A

To be launched in early 2025

Resolution: 1 m

Payload :

- High-res imager with CMOS; 1.18m (RGB), Video Capture

Mass : ~100 kg

Dimensions : 0.62m x 0.72m x 0.95m

Orbit : ~500 km Sun Synchronous -
Low Earth Orbit

EO Satellite Roadmap: National Constellation

THEOS-1

(Passive Payload)

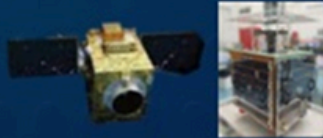
2008



THEOS-2&2A

(Passive Payload)

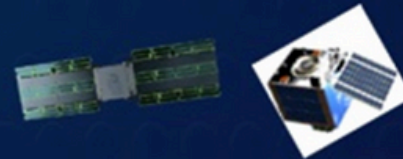
2023



THEOS-3&4

(Active & Passive Payload)

2026-2027



2029



THEOS-5&6

(Active & Passive Payload)

2034



THEOS-7&8

(Active & Passive Payload)

2038



THEOS-9A, 9B, 9C

(Passive Payload)



SchoolSat's Objectives

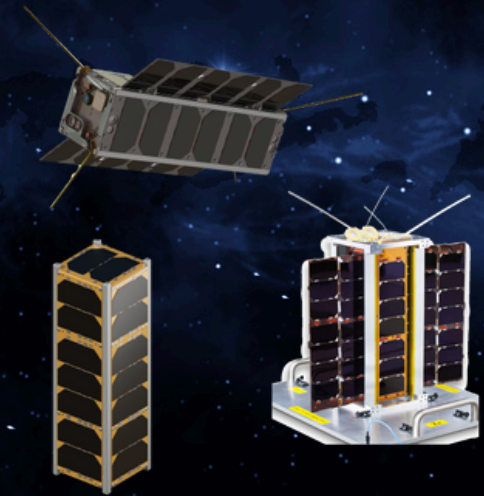
Transfer satellite development knowledge to Thai students, cultivating a skilled workforce capable of satellite development in Thailand

Target Group

University students

Key Activities

- Hands-on training in Assembly and Testing CubeSats
- Practical experience alongside satellite engineers



July – Sep 2024



01

Participant Recruitment

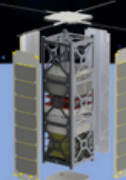
Oct - Feb 2025



02

Knowledge Transfer

Jun 2024 - 2025



03

Development of
CubeSat FM

Q1-Q2 2026



04

Launch into Space

7-9
NOVEMBER
2024



THAILAND
SPACE WEEK
2024

CONVERGING
TECHNOLOGIES,
CONNECTING
PEOPLE

IMPACT MUANG THONG THANI,
HALL 9 – 10, BANGKOK

MORE INFORMATION
EMAIL: TSW@GISTDA.OR.TH

FOR BOOKING EXHIBITION
EMAIL: EXHIBITION@GISTDA.OR.TH



REGISTER

<https://space.dgshark.com/Register/th>



The background is a deep blue, almost black, space-themed image. It is filled with numerous small, bright white stars of varying sizes. There are also larger, more diffuse nebulae or galaxy clusters visible, particularly on the right side where a bright, glowing blue and white structure is prominent. The overall effect is a sense of vastness and cosmic beauty.

Merci
Thank you