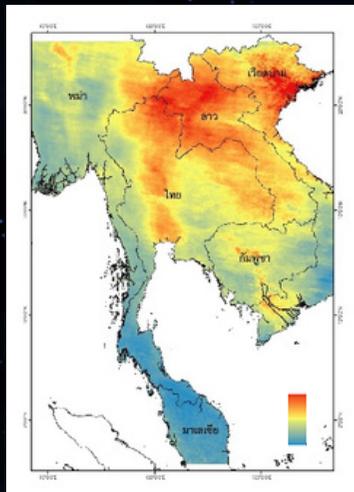


GISTDA AGENCY REPORT

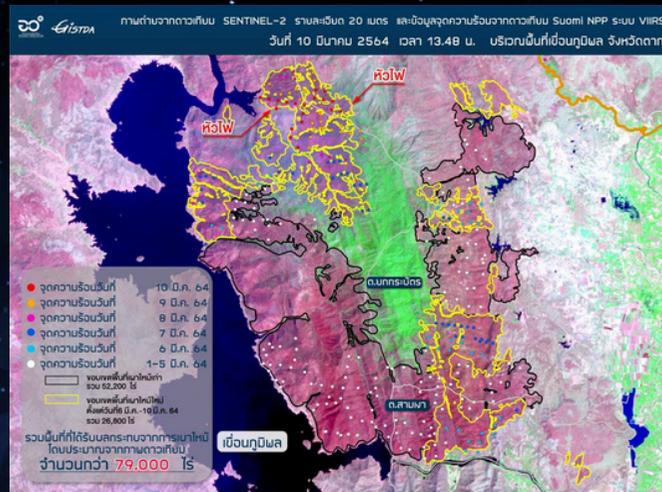
Pakorn Apaphant, Ph.D.
Executive Director
38th CEOS Plenary
22 - 24 October 2024
Montreal, Canada

Satellite Space Applications

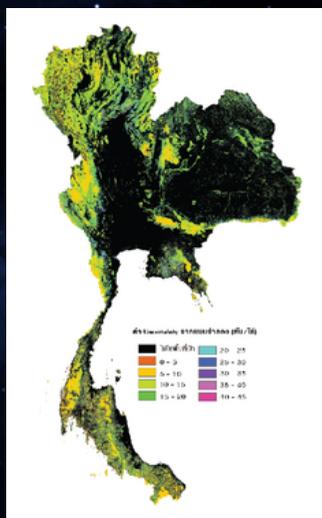
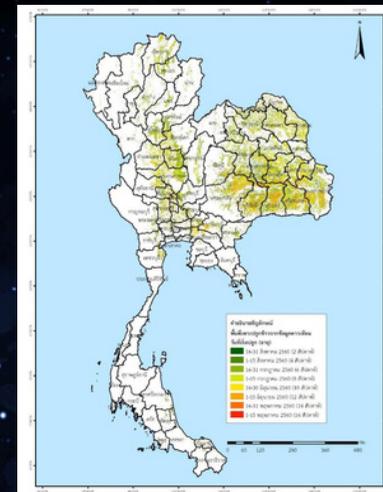
Air Quality



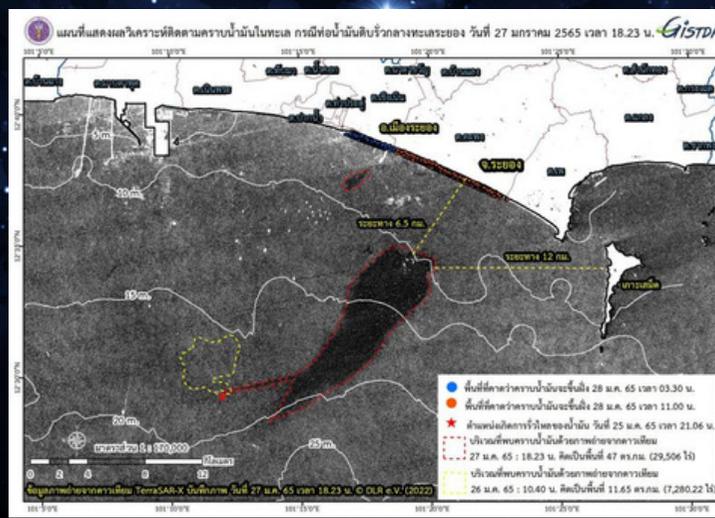
Forest Fire



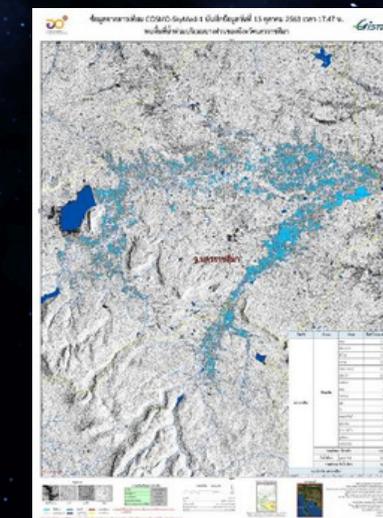
Agriculture



Forestry



Oil Spill



Flood

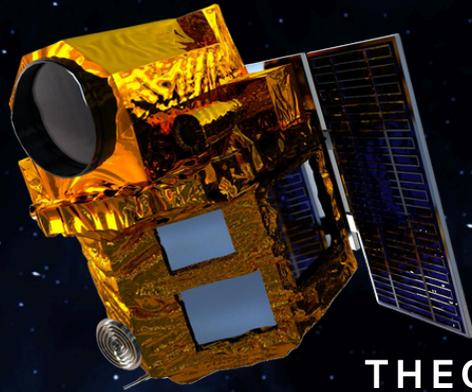


ภาพ...ล่าสุดจากดาวเทียม
THEOS-2
ต.เกาะช้าง อ.แม่สาย จ.เชียงราย

วัดพระธาตุดอยเวียงแก้ว

อ.เชียงแสน

"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)

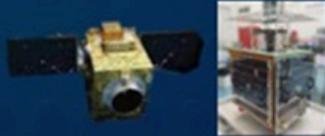
2008



THEOS-2&2A

(Passive Payload)

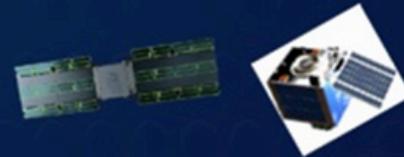
2023



THEOS-3&4

(Active & Passive Payload)

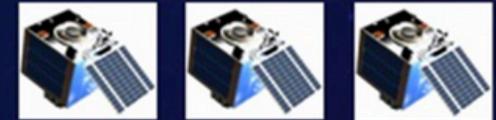
2026-2027



2029



2034



2038

THEOS-5&6

(Active & Passive Payload)

THEOS-7&8

(Active & Passive Payload)

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

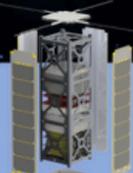
Oct - Feb 2025



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>



พิธีลงนามบันทึกข้อตกลงความร่วมมือ
ระหว่าง บริษัท ไทยคม จำกัด (มหาชน) กับ AIRBUS



The background is a deep, dark blue space filled with numerous small, bright white stars. A prominent feature is a large, glowing nebula or galaxy structure in the center-right, with a complex, swirling pattern of light and dark blue. The overall effect is a serene and cosmic atmosphere.

Merci
Thank you