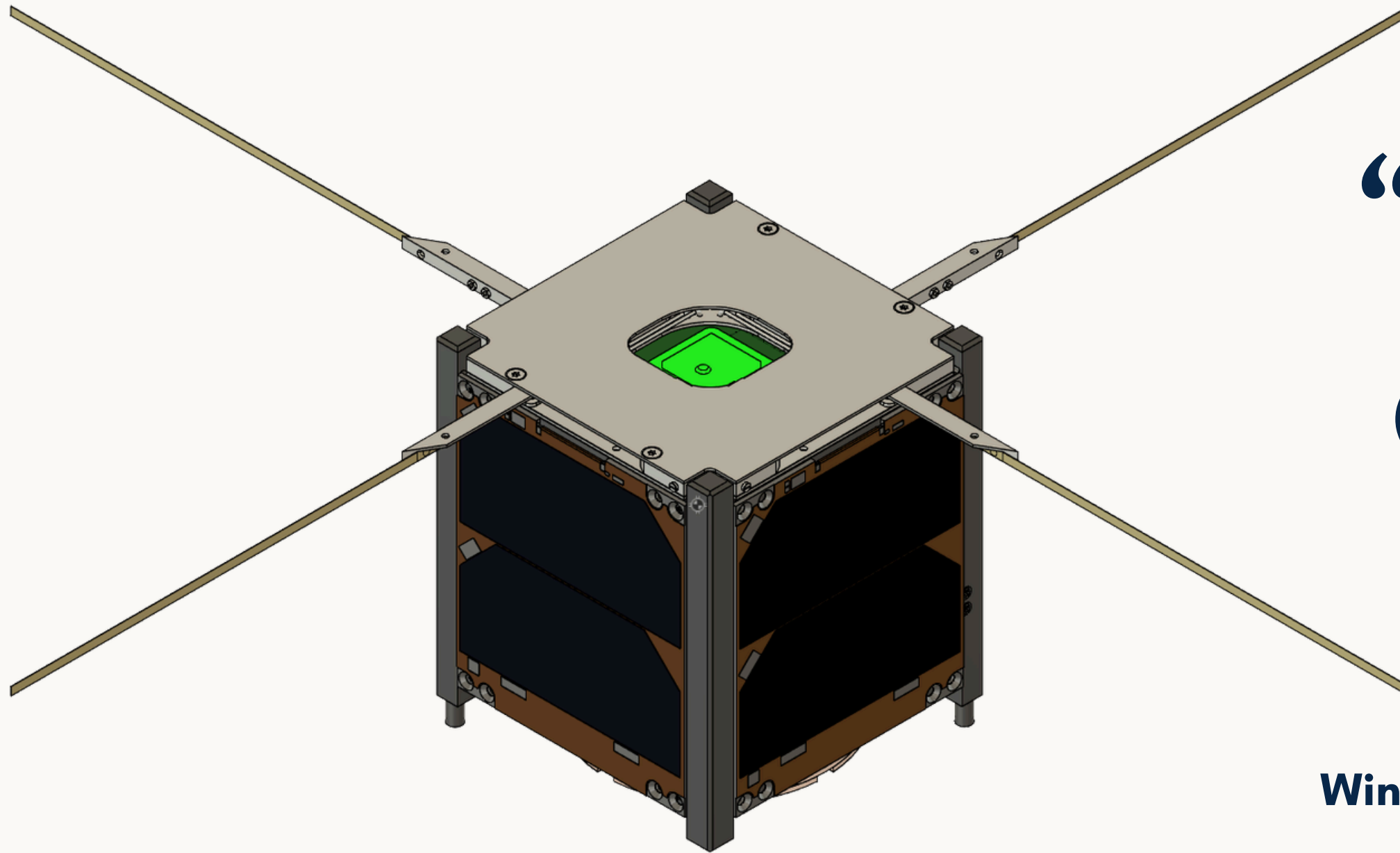




“ **CUSAT-1**
Our First Step
into Space ”

Winners of the 9th round of the KiboCUBE programme



Roadmap and Why we applied to KiboCUBE Programme 9th Round

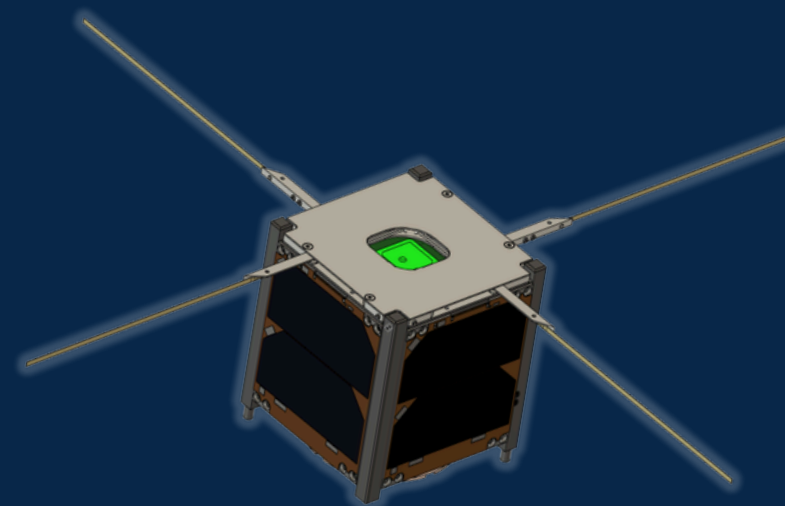
Founded the Club (2025)

Developing our members' skills to compete on the national stage.



CUSAT-1 (2026)

Researching and developing real satellites while inspiring the next generation.



Expanding the Impact

Inspiring the next generation, developing new satellite missions, and connecting with the global aerospace community.

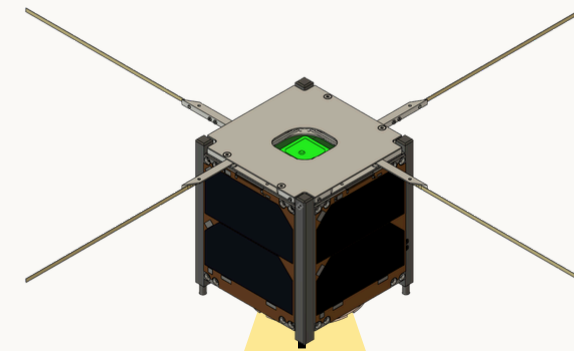


CUSAT-1 Primary Mission

We fill the **gap** in government satellite coverage by increasing the **frequency** of observation.

Water Mangement & Flood Monitoring

Monitoring of water distribution and flood-prone areas to support drought assessment, flood monitoring, and water resource management.



Altitude = 400 km



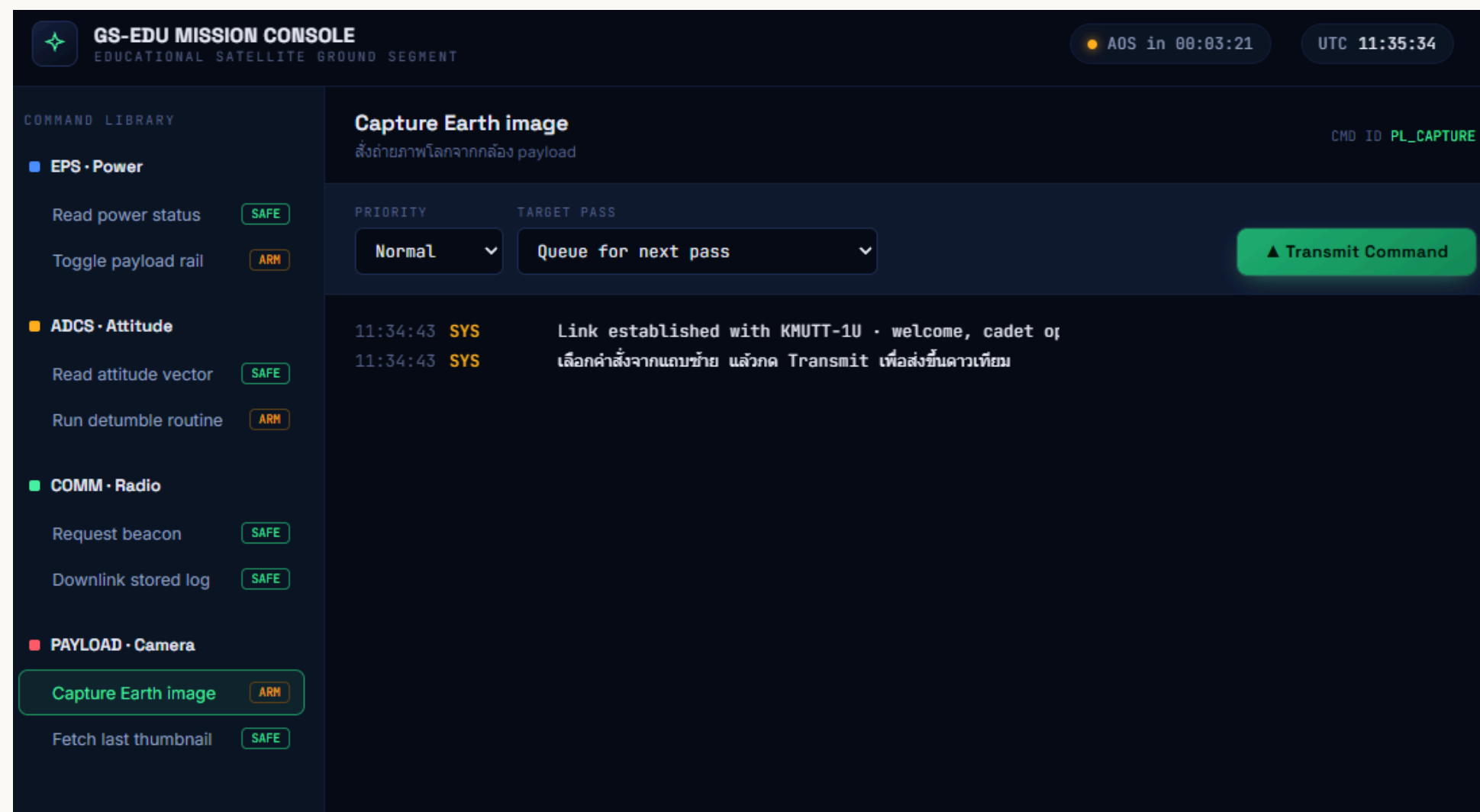
Agricultural Monitoring

Low-resolution Earth observation imaging for agricultural monitoring, including burn area detection and environmental assessment.

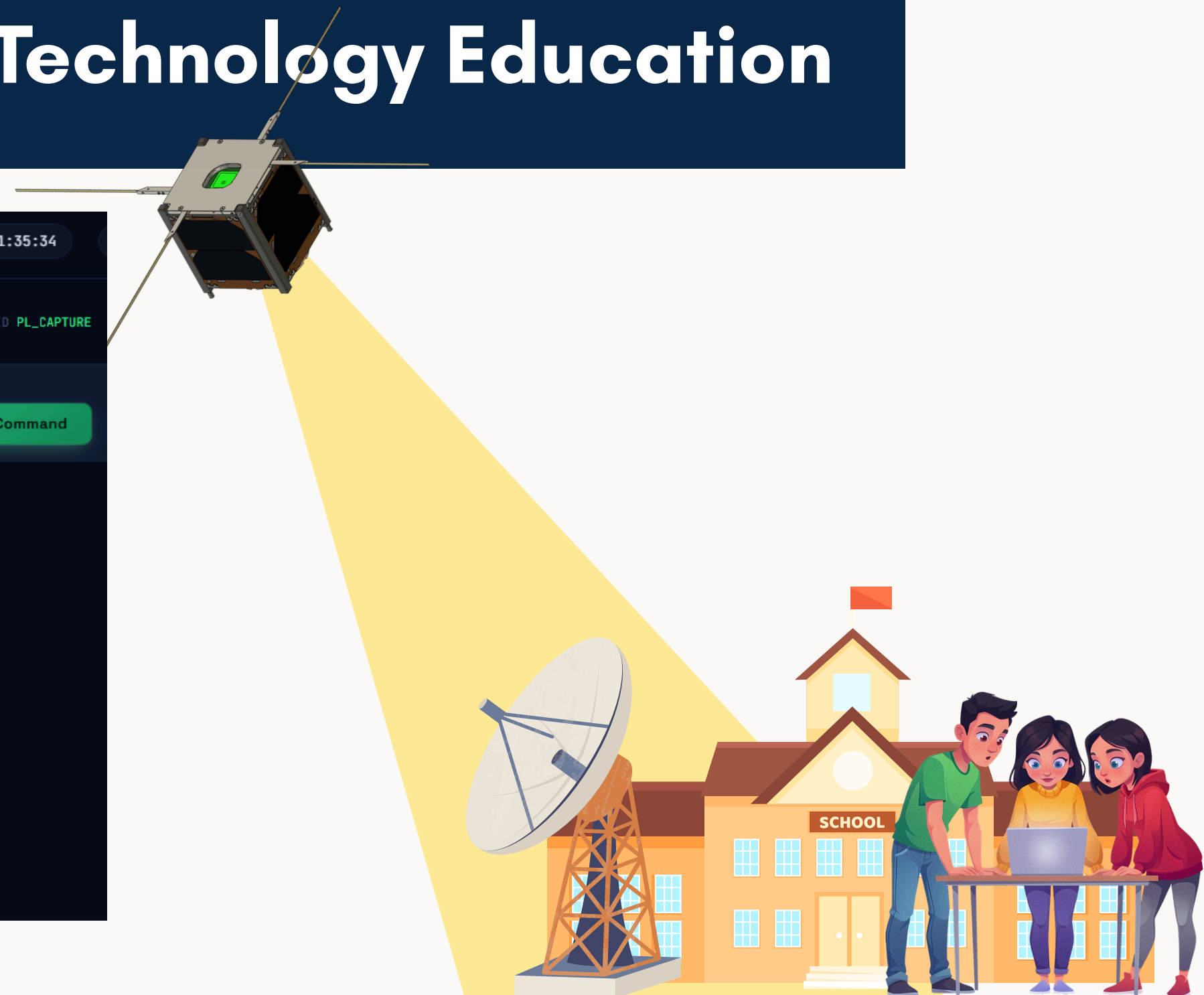


CUSAT-1 Secondary Mission

Expanding Access to Space Technology Education



For Mockup only.





CUSAT-1 Imager Payload

Why we build in-house?



No suitable 1U CubeSat COTS solution exists for **water** and **burn** area observation, so in-house development is required.



Building it in-house offers valuable **hands-on experience** in space-grade satellite design and manufacturing

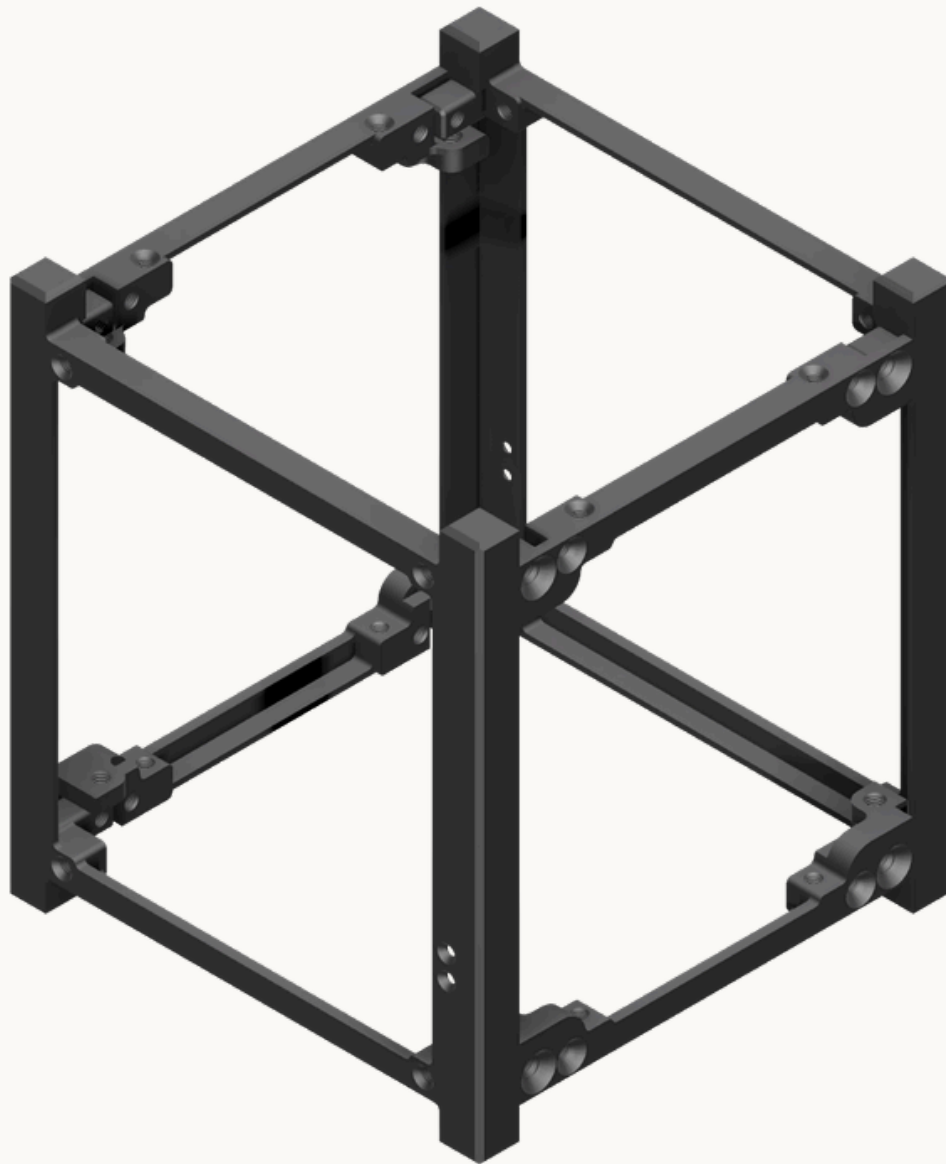


This payload provides a **foundation** for future 1U CubeSat imaging missions. (**Future Heritage**)



CUSAT-1 Structure

Why we build in-house?



Leverage Thailand's **strong precision manufacturing** capabilities to develop a locally built satellite structure.



Demonstrate that **university teams** can design and manufacture satellite structures locally.



Gain **hands-on experience** in CAD design, structural analysis, material selection, and precision manufacturing.



CUSAT-1 UHF/VHF Antenna

Why we build in-house?

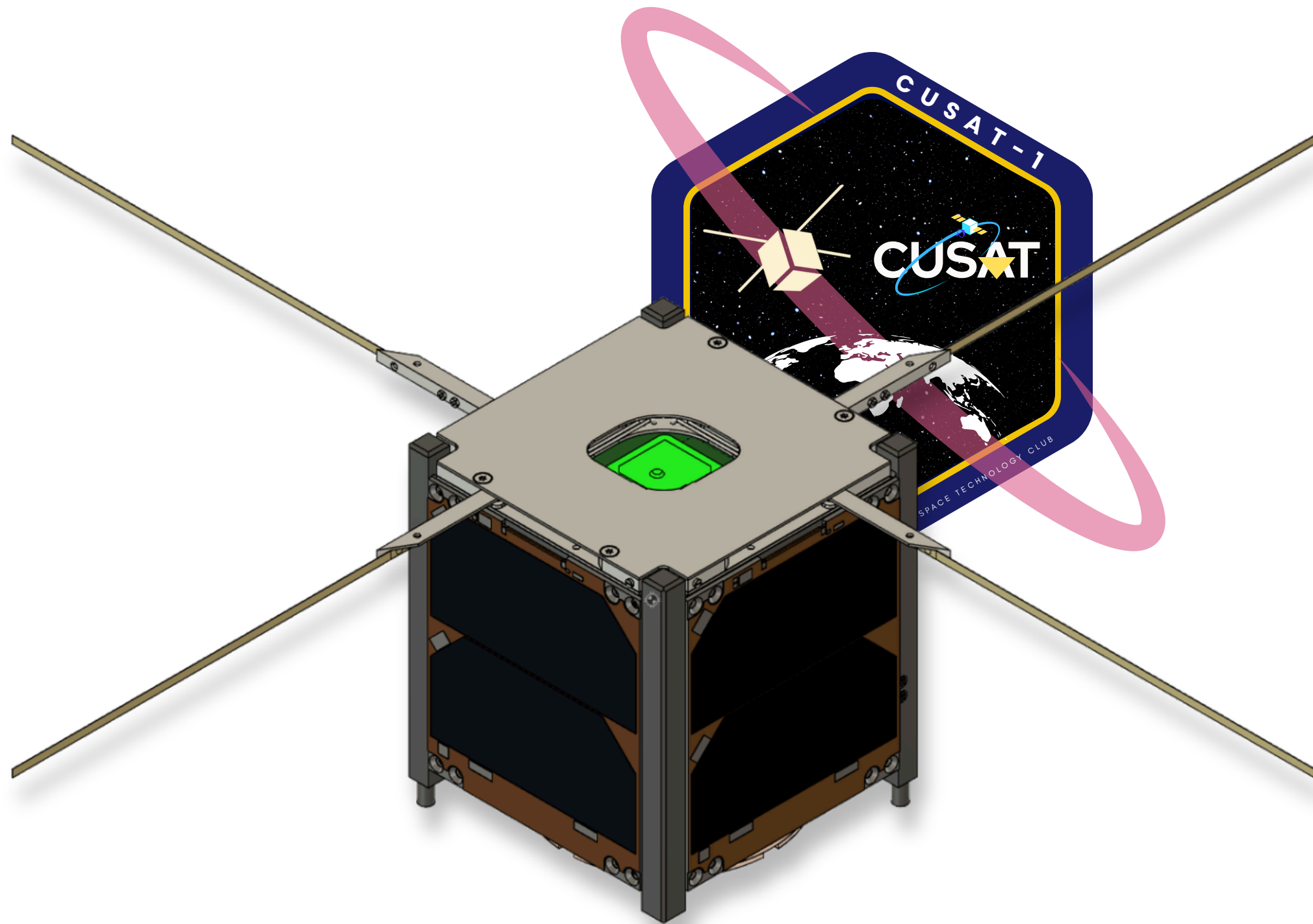


Simple enough for university students to build themselves.



Reducing project costs.





CUSAT-1

We want to make space no longer a distant dream.

And empower the next generation to ignite a nationwide movement.

