

Supported Companies

.....and many more



Φ-lab-powered satellites and constellations

FFSCAT / Φ-sat1

First IOD with GPU and AI model for EO with miniaturised hyperspectral

UBOTICA (IE) | COSINE (NL)
Launch : 2020

Φ-sat2

Pushing agility with easy deployment/update of AI

Open Cosmos (UK)
Launch : 2024

Wild Ride

IOD with in-orbit Rapid Flood Mapping

D-Orbit (IT/UK)
UNIBAP (SE) | FDL (UK)
Launch : 2021

Dashing Through the Stars

IOD with first-ever onboard training of AI model for EO

D-Orbit (IT/UK)
UNIBAP (SE) | FDL (UK)
Launch : 2022

Intuition-1

Optimized AI pipeline from raw data, with ground/onboard continual learning

KpLabs (PL)
Launch : 2023

Progres.LU

Polarimetric radio-occultation mission

SPIRE (LU)
Launch : 2023

OroraFire

Thermal IR constellation for wildfire detection

OroraTech (DE)
Launch : 2024

MicroLidar

Greenhouse-gas detection

AIRMO (DE)
Launch : 2025

MSCM

MultiSpectral companion mission of Sentinel-2

Aerospacelab (BE)
Launch : 2024

AI EXPRESS

HPC and AI in-orbit platform

Planetek (IT)
Launch : 2024

MANTIS

Constellation of VHR MS satellites

Open-Cosmos (UK)
Launched : 2023

SAT4EOCE

VHR MS payload w/ TDI on CMOS detector, AOCS

DEIMOS (ES)
SSTL (UK) | Te2v (UK)
Launch : 2024

HIVE

Thermal IR constellation for agro-industry

Constllr (DE)
Launch : 2024

Hyperfield

Highly integrated satellite combining HYP and AI/ML-based analytics

Kuva Space (FI)
Launch : 2024

★ Fully Φ-lab supported

by Φ-lab Explore Office

by InCubed

InCubed supported

- Copernicus Sentinels
- Optical CCM
- SAR CCM
- European Emerging CCM Data Providers

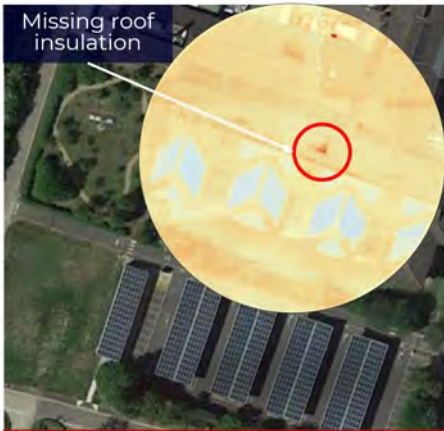
SENSOR DOMAIN

- multi-spectral (a)
- hyperspectral (b)
- thermal infrared (c)
- atmospheric composition (d)



S U P E R S H R P

A SATLANTIS COMPANY



Urban energy monitoring to accelerate decarbonisation



Early detection of heat stress in crops to boost yields

SUPERSHARP PANORAMIC INFRA-RED IN-ORBIT TELESCOPE SPIRIT

- Contract Kicked off – March 2024
- The SPIRIT project will deliver an ultra-compact, high- resolution, wide field of view, thermal infrared camera for use by Earth Observation operators. Its thermal imagery will be used to produce global heat maps with unparalleled revisit and resolution to monitor energy usage of buildings worldwide. It is funded through the ESA Incubed Programme.
- Downstream partners at the University of Cambridge's Department of Architecture and Geospatial Insights will develop algorithms and techniques to deliver the insights needed for climate applications using emulated SPIRIT data.