SATLANTIS

GEI-SAT Precursor for Copernicus Contributing Mission

CAT 1 for Atmospheric Composition Domain

11th June 2024
ESA ESRIN, FRASCATI

Who We Are

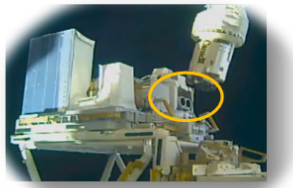
We build **Small Sat Full Solutions**, around the **space-validated** iSIM-technology, to answer **End-users' problems and challenges (e.g., GHG)**

Private Investors | **Public Support**

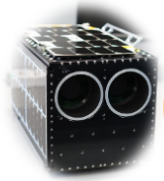
SATLANTIS is a global leader in **high-performance** small satellites for **Earth Observation**

SATLANTIS - EO Missions

Q2 2020 — **IOD Mission**
JAXA launch to ISS



Q4 2021 — **CASPR**
NASA launch to ISS



Q2 2022 — **URDANETA**
First proprietary satellite

Q2 2023 — **GEISAT Precursor**
Methane Detection

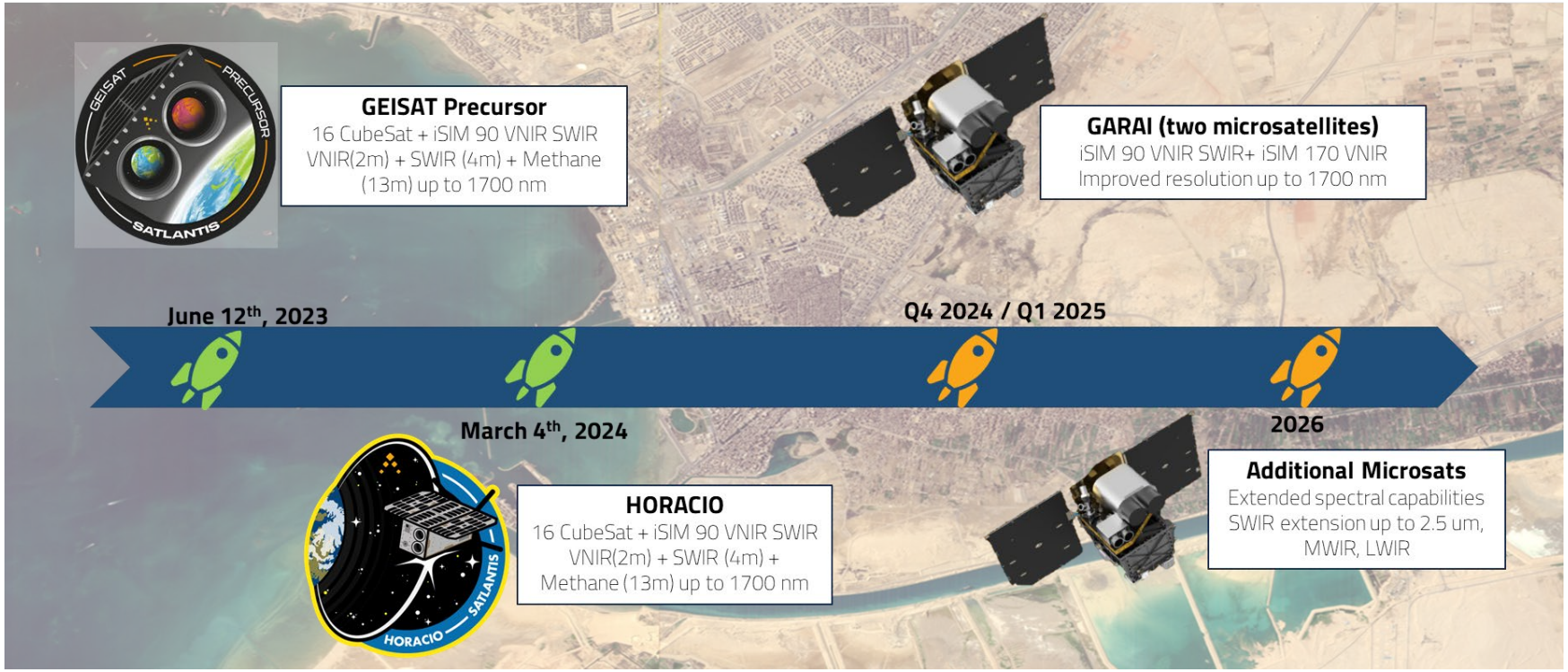
Q4 2023 — **MANTIS**
ESA Launch

Q1 2024 — **HORACIO**
iSIM 90 VNIR and SWIR

2025 2026 — **GARAI (Q1 2025) GEISAT Constellation (2026-28)**

CH4 Constellation & Strategic Roadmap

GEISAT CONSTELLATION: Multipurpose missions including Cubesats and Microsats



GEISAT Precursor – Innovation Capacity

ULTRA-HIGH RESOLUTION ALGORITHM
VNIR & SWIR Spatial Resolution enhancement without AI

MULTISPECTRALITY
Ability to capture multispectral data with same resolution

AGILITY
Continuous monitoring of non-linear structures on the ground

Simultaneous OBSERVATIONS
Simultaneus observations in VNIR and SWIR with methane measurements

TECHNOLOGY EVOLUTION

EXTENDED SPECTRAL CAPABILITIES
Extended SWIR bands up to 2.5 um

ON-BOARD PREPOCESSING CHAIN
Reduce data latency

POLARIMETRY
Mitigation of background and aerosol effects

IMPROVED IMAGE RESOLUTION
Exploring new payloads with sub-metric resolutions

MWIR and LWIR payloads
SuperSharp capability up to MWIR & LWIR by Q1 2025

SATLANTIS

www.satlantis.com

Spain Headquarters
Science Park
University of the Basque Country
Sede Building
48940 Leioa-Bilbao
SPAIN

Satlantis, LLC
Innovation Hub
University of Florida
747 SW 2nd Avenue Suite 235
Gainesville, FL 32601
USA