



# SATLANTIS

TECHNOLOGY FOR SCIENTIFIC MISSION

SANTIAGO SERRANO – SCIENTIFIC MISSIONS TECHNICAL DIRECTOR



VHR and HR optical payloads



Full missions as turnkey solutions



Capacity (satellite as a service)



2020 ➤

**M1** - IOD

JAXA launch to ISS

- ✓ Ultra High Resolution
- ✓ Video



Q2-2020



2021 ➤

**M2** - CASPR

DoD / NASA launch to ISS

- ✓ Multispectral
- ✓ Agility



Q4-2021



2022 ➤

**M3** - ArmSAT1

Launch of first iSIM-SAT

- ✓ 16U CubeSat
- ✓ iSIM-90 VNIR
- ✓ Key customer: the government of Armenia

Q2-2022



2023 ➤

**M4** - GEISAT Precursor

Launch of iSIM-SAT

- ✓ 16U CubeSat for CH4
- ✓ iSIM-90 VNIR-SWIR
- ✓ Copernicus Contributing Mission

Q2-2023



2023 ➤

**M5** - MANTIS

Our contribution: iSIM-90 VNIR

- ✓ Mission for Oil&Gas
- ✓ ESA Launch of a 12U-CubeSat

Q4-2023



2024 ➤

**M6** - HORACIO

Launch of iSIM-SAT

- ✓ 16U-CubeSat
- ✓ iSIM-90 VNIR-SWIR

Q1-2024



2025 ➤

**M7** - 2 x GARAI

Launch of iSIM-SAT

- ✓ MicroSat
- ✓ iSIM-170
- ✓ & iSIM-90 VNIR-SWIR

Q1-2025 & Q3/Q4-2025



**M8** - Multi-Payload

**Visible/Thermal** missions  
MicroSats from visible to thermal bands, for multiple applications

2026-27 (TBC)



BILBAO – iSIM90

SATLANTIS

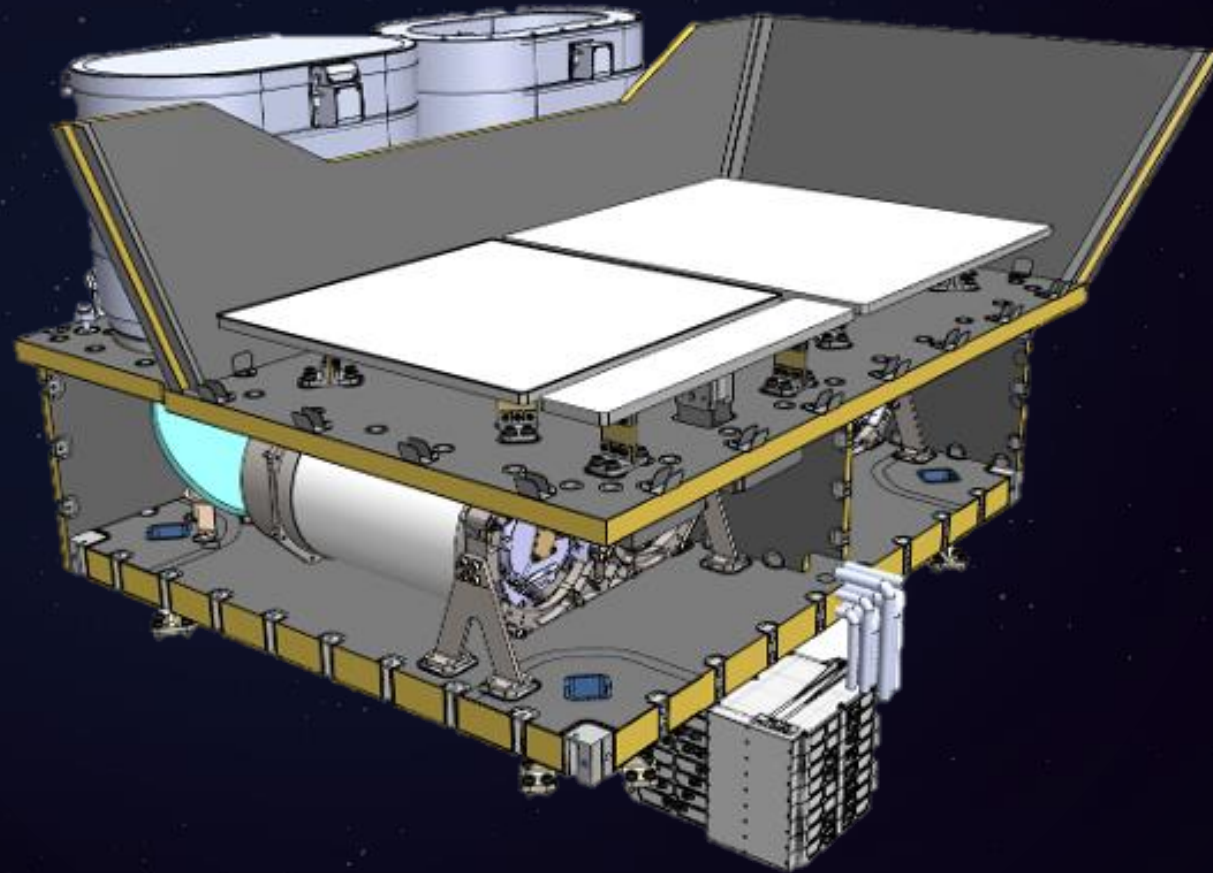


# ARRAKIHS

ESA F2 SCIENCE MISSION

SATLANTIS

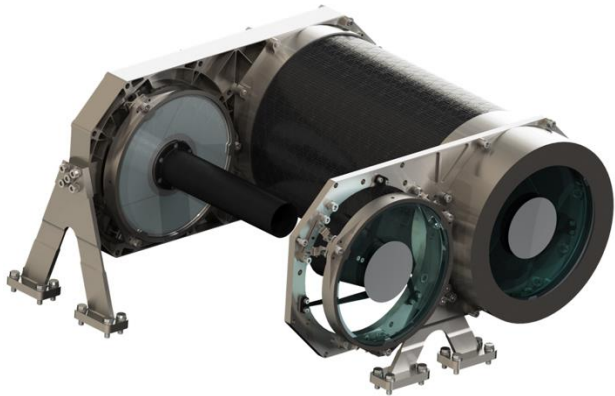
Leading design and development for the main scientific instrument of ESA F2 Class Mission



ARRAKIHS

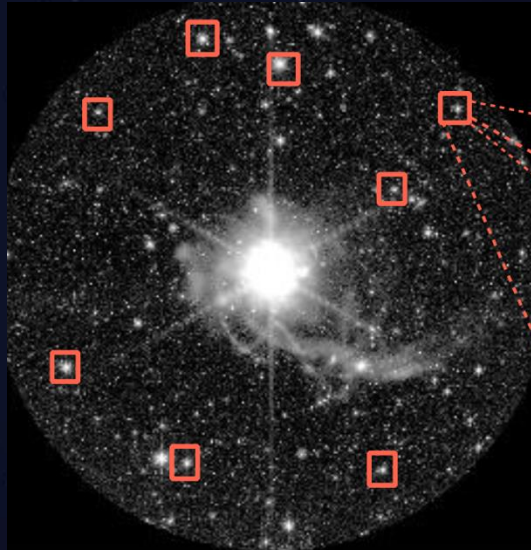
Consortium of 8 countries , in collaboration with 18 companies and research institutions,  
including IFCA, IEEC, IFAE, CEFC, Lidax, INTA and UPM-IDR

from UV to THERMAL



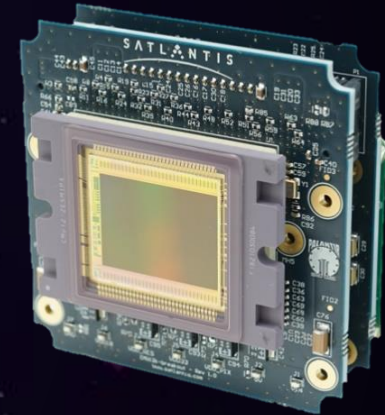
DIFFRACTION LIMITED OPTICS

FINE GUIDANCE SYSTEM

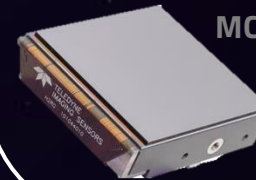


ADCS - PAYLOAD IN THE LOOP  
FOR LONG EXPOSURE  
SCIENTIFIC OBSERVATIONS

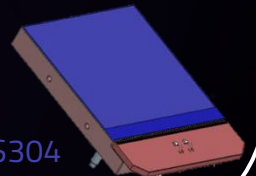
SCIENTIFIC SENSORS  
and ELECTRONICS



Teledyne H2RG  
MCT NIR Sensor



Te2v CIS304  
CMOS Sensor





- Demonstrated space technology for Earth Observation missions – Copernicus Contributing Mission
- Developing technology for state-of-the-art Astronomy Scientific Missions - ARRAKIHS
- Capability for wide variety of scientific missions. NASA Pioneer and ESA SCOUT proposals

