



PROJECT-S

Safeguarding Space Access and Exploration

Sandeep Bastola, COO, Satellite Systems Lead

SAFETY

• CONNECTIVITY

• COMPUTE

Image: NASA, used under NASA media guidelines.



What's the Fastest Way for a Company to Lose 500 Million Euros?

Natural Disasters?

Stock Market?

Tariffs?

The Problem: Space Debris

130M

Debris Pieces
Man-made objects currently orbiting Earth

100K+

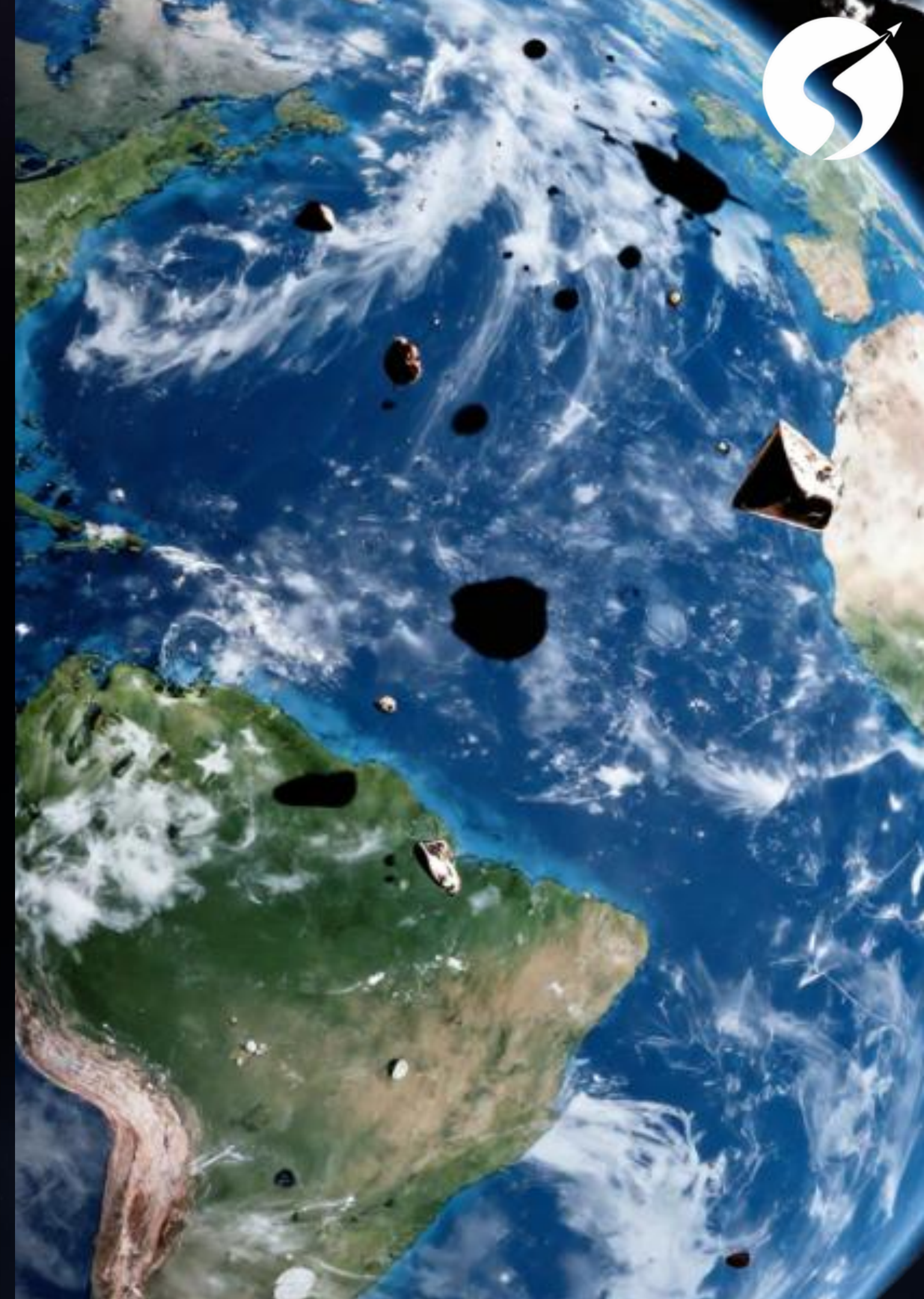
Active Satellites
Projected cumulative count by 2030

€500M

Cost Per Collision
Average loss per satellite impact event

>95%

Undetected Debris
Objects too small for current ground-based tracking





End-to-End Counter-debris Solution



ACTIVE DEBRIS REMOVAL

Capture and remove
high-risk debris



COLLISION AVOIDANCE

Predict and maneuver
to reduce collision risk



SPACE-BASED DEBRIS RADARS

Detect and track debris
across all orbits



TRL-4

World's Only Commercial Space-Based Debris Radars

<2 cm Detection

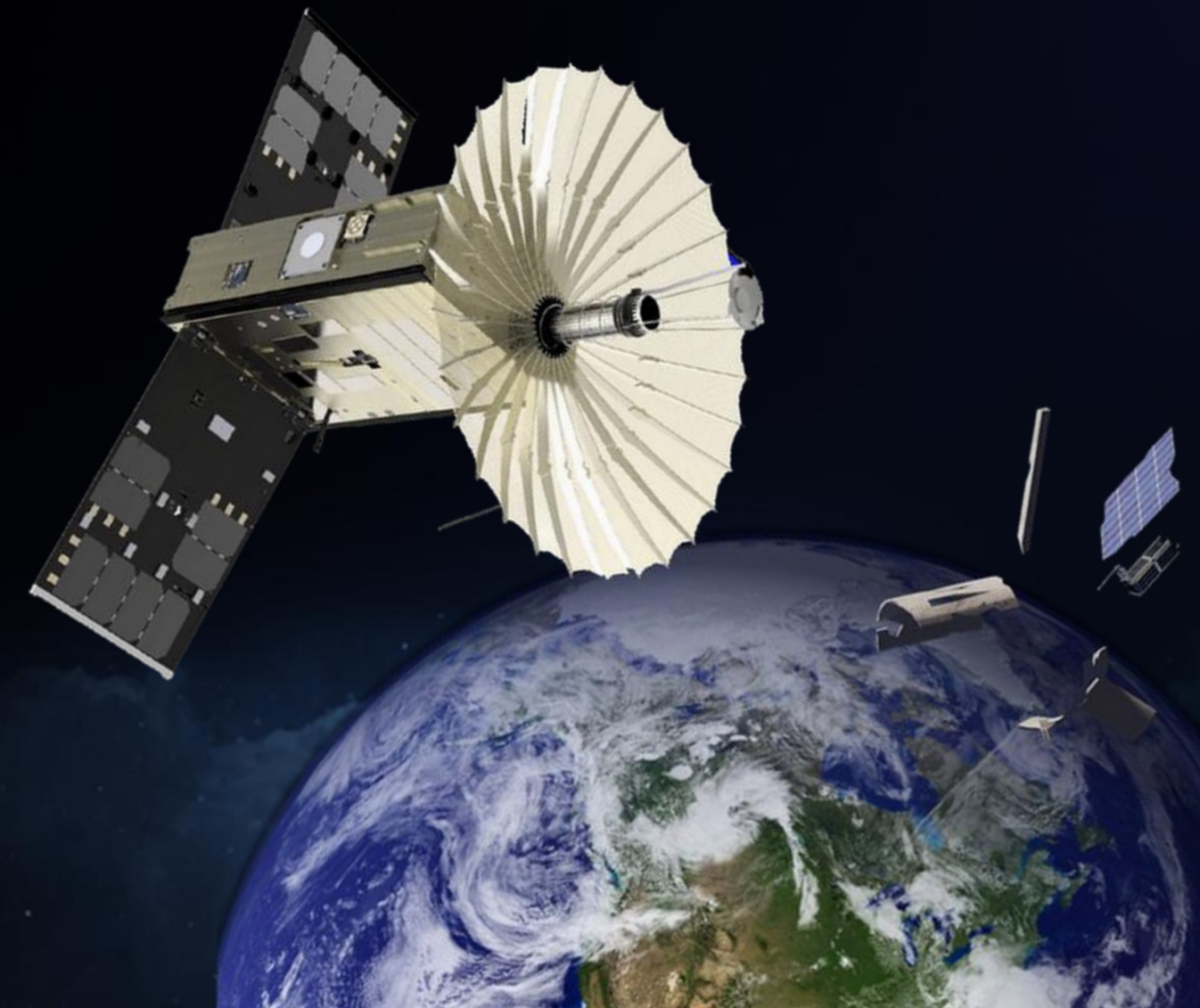
World's only commercial system detecting debris under 2 cm — previously invisible to ground-based networks.

AI-Powered Classification

The only solution categorizing **spin, shape, material, distance, and velocity** simultaneously.

All Conditions, All Orbits

Uninterrupted detection across LEO, MEO, and GEO — regardless of lighting or atmospheric conditions.





TRL-8

Autonomous Collision Avoidance



50% | Less maneuvers needed

€100K | Weekly Savings

100% | Fully autonomous LLM Agent



TRL-3

Active Debris & Satellite Removal



8× Cheaper

Lower-cost operations compared with conventional approaches

Adaptive Grasping

Handles unknown targets in unknown environments

Fast RL Control

World's fastest adaptive reinforcement learning grasping



Target Customers

SATELLITES OWNERS



SATELLITES OPERATORS



GOVERNMENTAL AGENCIES



INSURANCE COMPANIES





REVENUE STRATEGY

Eight Products, Two Revenue Models

Subscription-based SDA tools launch first, followed by contract-based physical services.

Product	Launch	Model	Pricing
Heat Map	Q2 2026	Subscription	Per satellite/constellation
CAM Planner	Q3 2026	Subscription	Per satellite + value-add
Safety Zone Planner	Q3 2026	Subscription	Per satellite/constellation
Orbital Watchdog	Q2 2027	Subscription	Per satellite/constellation
Debris Data Feed	Q2 2027	Subscription	Small/government accounts
Active Debris Removal	Q2 2028	Contract	Per contract
Space Insurance	2029–2030	Subscription	Per satellite/constellation
ISAM	2030	Contract	Per contract



COMPANY PROGRESS

Milestones Achieved

FIRST MISSION
6 wks

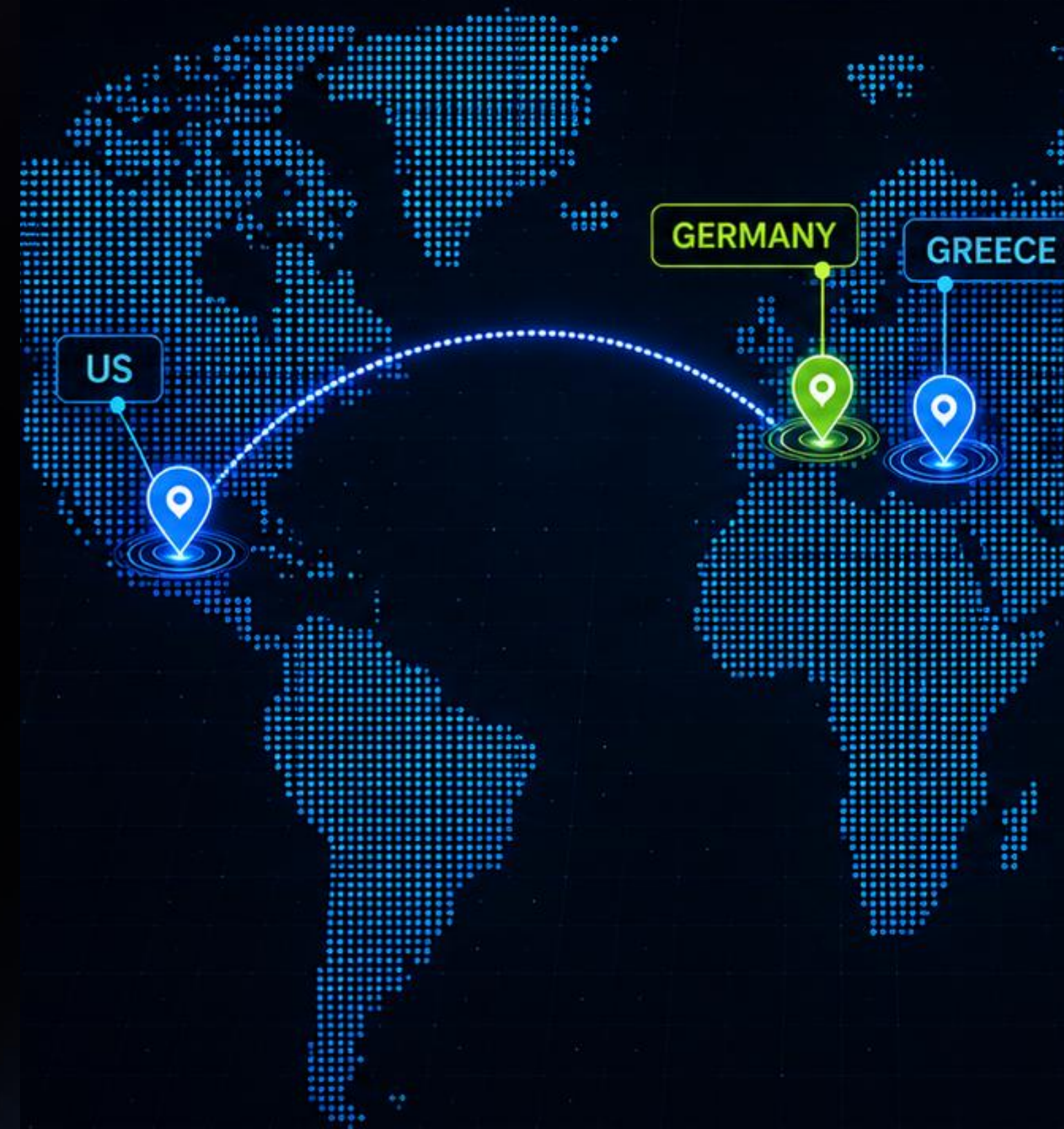
RESEARCH
Top 0.01% of
robotics papers

FOLLOW UP
8 months

VALIDATION
Customers < 6
months

FUNDING
€4M+

TEAM
Stanford +
Berkeley + TUM





COMPANY PROGRESS

Technical Milestones

Radar payloads, software architecture, and robotics systems with cleared critical validation gates, de-risking the path to commercial launch.

ATLAS III

Payload built in 6 weeks — 12× faster than the 18-month industry standard

AstroShield

Full SDA platform architecture defined and cloud baseline ready for deployment

Robotics

Stanford collaboration established; space-based grasping research validated externally

ATLAS IV

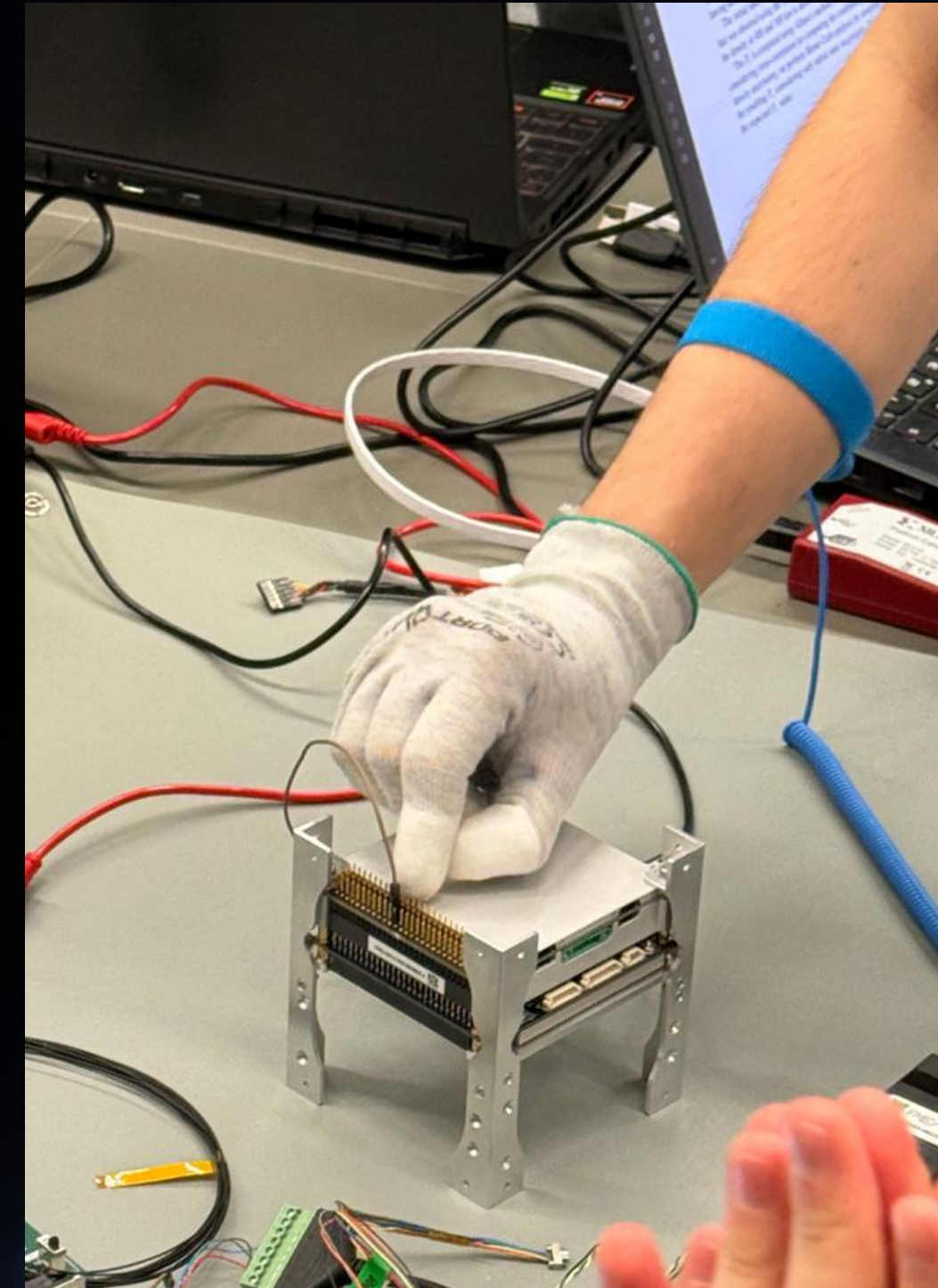
Requirements baselined, procurement launched, AIT scheduled for Q4 2026



TECHNICAL MILESTONES

ATLAS III — Radar Payload

- Deployer integration
Payload is integrated to host and to deployer
- 6-Week Build Cycle
Payload completed in 6 weeks vs. 18-month industry standard
- Launching soon





TECHNICAL MILESTONES

AstroShield — Space Domain Awareness Platform

AstroShield is our full-stack collision avoidance and conjunction analysis platform — purpose-built for satellite operators who need actionable, real-time risk intelligence.



Data Architecture

Propagation, conjunction analysis, covariance/ P_c , and UX layers fully defined

Collision Avoidance

Three-stage capability: risk investigation → maneuver planning → post-maneuver screening

Cloud Baseline

Data ingestion, propagation workers, workloads, and observability ready for scale

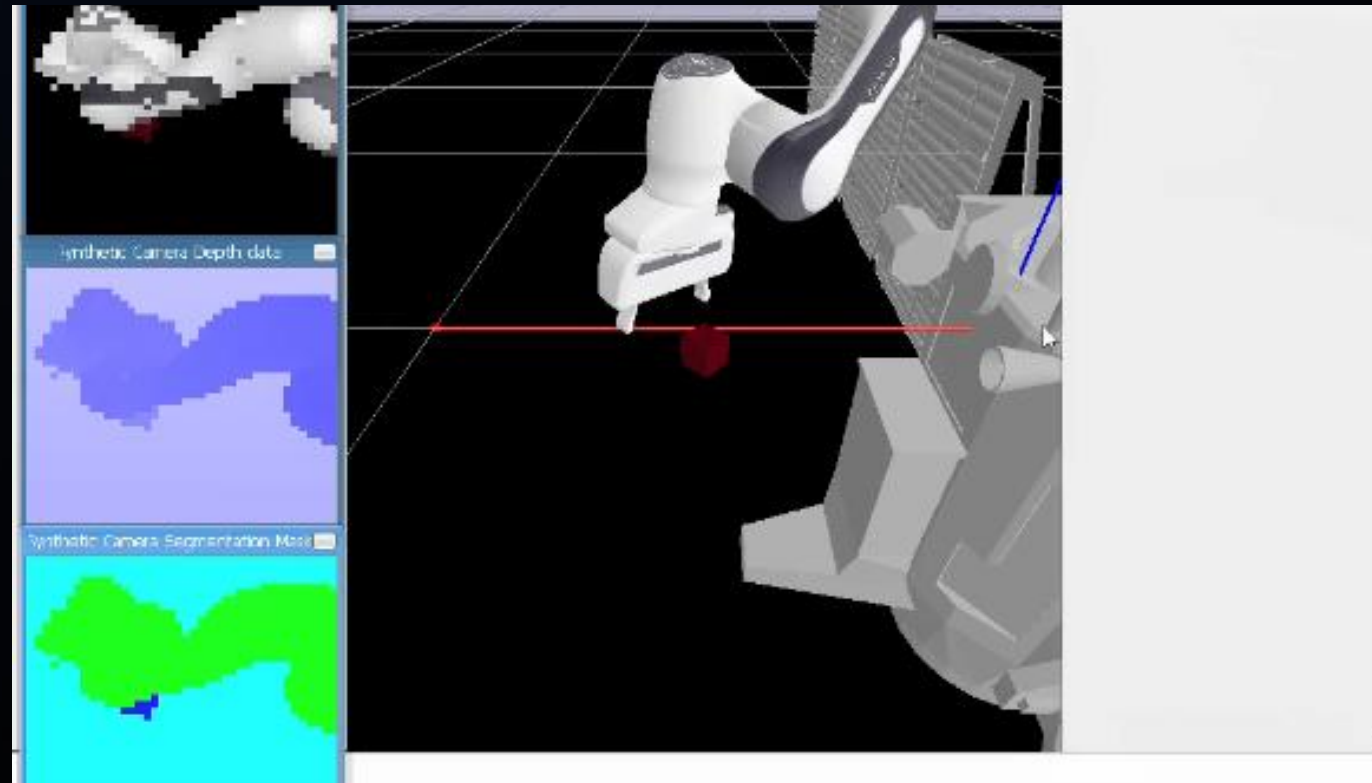
Security & GA Readiness

Security baseline and GA-readiness controls scoped for enterprise deployment



TECHNICAL MILESTONES

Robotics



Our robotics program is building the foundation for active debris removal and in-space assembly — combining AI-driven control with validated hardware.



Published Research: Askianakis & Artemov — "Space-Based Environmentally-Adaptive Robotic Grasping" — AIAA SciTech 2025

01

Reinforcement Learning Simulation

Custom RL environment created for autonomous space manipulation

02

System Architecture Drafted

Full implementation architecture defined for flight-ready systems

03

Stanford Collaboration

Joint research partnership established for advanced robotic control

04

Vision Bench & Manipulator Cell

Vision bench operational; manipulator cell integrated and tested



NEXT GENERATION

ATLAS IV — Follow-On Mission in 8 Months

Building on ATLAS III's success, ATLAS IV accelerates our launch cadence — demonstrating production readiness and operational momentum.

1

Requirements Baseline ✓

System requirements and interfaces fully baselined

2

Procurement Kickoff ✓

Supply chain and component procurement launched

3

AIT — Q4

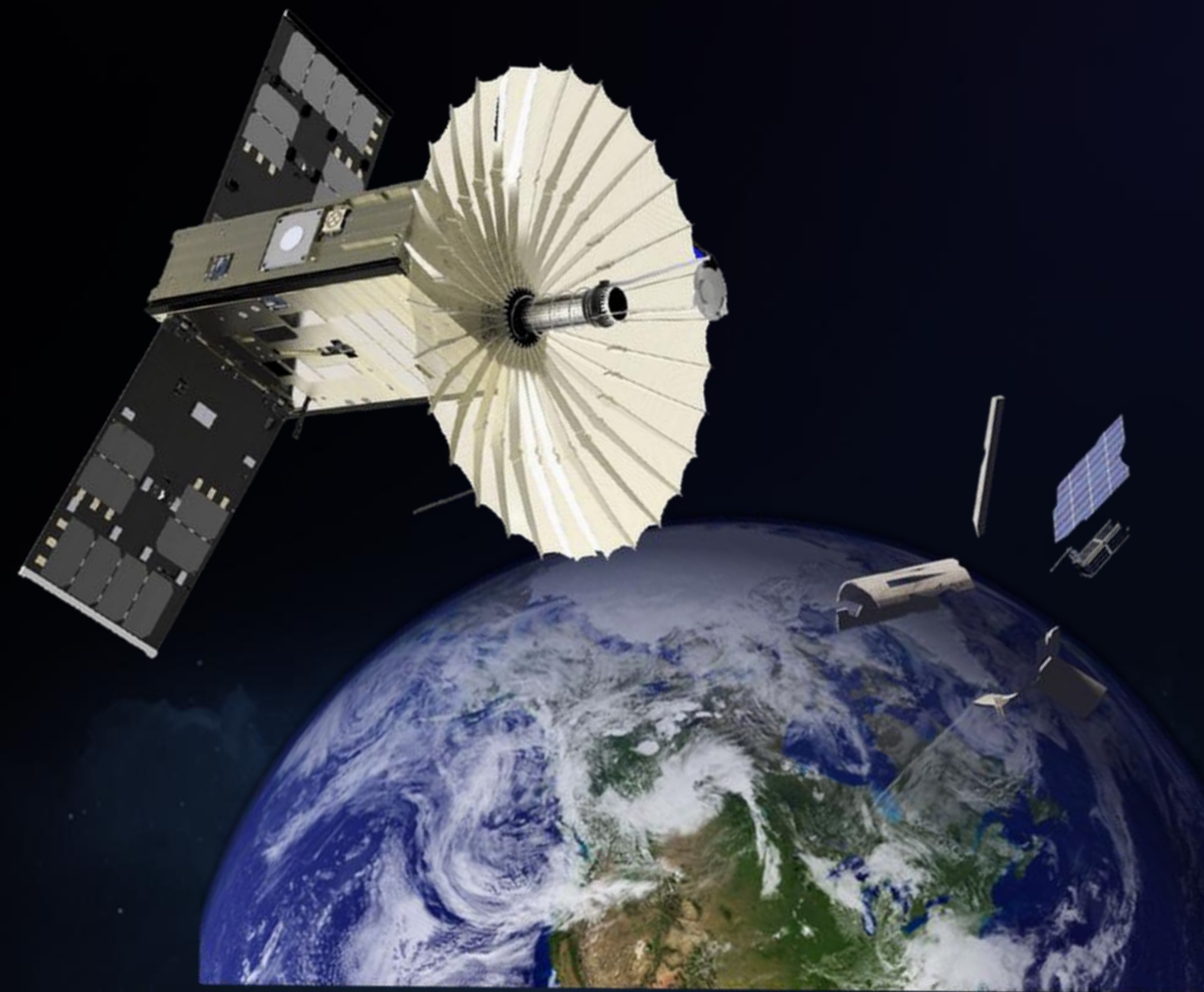
2026

Assembly, Integration & Testing scheduled

4

Launch — Q1 2027

Expected launch aboard commercial rideshare





Development Roadmap





LEADERSHIP

Leonidas Askianakis — Founder & CEO



STEM Olympiad Prodigy

The **one and only** in Greece to achieve **Top 0.1%** in Mathematics, Physics, Chemistry, and Astrophysics Olympiads simultaneously.

- **Top 1%** — NASA Global Space Apps
- **Golden World Champion** | International University Mathematics Competition
- Led German Student Teams Competition Winner 2023
- **5 degrees** pursued in parallel over 4 years
- Award-winning research publications





LEADERSHIP

The Leadership Team



Sandeep

Bastola

COO & Satellite Systems Lead

- Samsung Telecommunications Research
- Serial entrepreneur — founded 5+ startups



Aleksandr

Artemov

CTO — Robotics

- ISS Research & Development
- M.Sc. Applied Mathematics, Optimal Control Systems
- KPMG & VW Software Engineering

Join the Safety Layer of the Space Economy



Detect • Avoid • Remove • Insure • Maintain • Update

€15M

Target: June 2027



[CONNECT](#)

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Sandeep Bastola
sandeep.bastola@project-
s.space