ORBITALPARADIGM

Agile return transportation for the in-space industry

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We develop highly autonmous space return vehicles to unlock space at a scale for in-space manufacturing and as pathway for Earth logistics.

ORBITAL PARADIGM

Born October 23



Raised 1.3MEUR Pre-Seed

Demium. id⁴ventures





Public&private

ESA Projects

Oct '24 ASTRA FLPP InSPoC3



Nov '24 COSMIC ESA BSGN



SW-centric high-autonomy reentry vehicles

>Ensured low acceleration 2x less wrt competition >Safe & accurate landing in mainland Europe

10x accuracy wrt competition

>Compact design





End-to-end high cadence for in-space manufacturing



Missions Roadmap





Agile return transportation for the upcoming in-space industry

KID - Sept 2025

2U Cubesat form Factor

Non-recovered reentry Duration: 2hrs flight Payload capacity 2kg Datalink: Iridium Power: 10W





Agile return transportation for the upcoming in-space industry

Learn To Fly

Mission Duration: 4h to 5days TBC Payload Mass: 20kg max payload capacity Payload Volume: up to 40L Thermal: 20°C to 50°C Power: 2-4 W/kg avg Data Interface: UART, CAN, SPI Maximum reentry g-load on payload: 3g Return: Azores (primary), Australia (backup)





Lean team, fast progress





Agile return transportation for the upcoming in-space industry

50 Years Space Engineering 6 Years Space Reentry



Francesco Cacciatore

CoFounder CEO&CTO 18 Years. Professor, MBA

Space Rider GNC Lead





Víctor Gómez

CoFounder COO&SysEng 11 Years. MBA, PhD Candidate

Dorbit Avionics&System





Carmen Muñoz

Heatshield Lead 5 Years. PhD

Ceramic composites



Tomás Girona

GNC Engineer 3 Years. PhD Candidate

Control systems



spaceware

Mech and AIT

Enzo

2 Years.

Van de Ven

Mechanical Engineer



Guillermo Zaragoza

Flight SW Lead 7 Years. PhD Candidate

ION Flight SW Lead





Sener deimos elecnor group













LEO Commercial Multi-user Facility



ORBITAL PARADIGM



Biotech



UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

BioOrbit

Advanced **Materials**



IOD

Ecosystem and Partners

Actively collaborating with the space ecosystem

Agreements in place for propulsion systems and sensors

More than 2.5MEUR in ESA and AEE projects and national grants **presented**



Partners and collaborators



ORBITAL PARADIGM

Simplify space return to seamlessly connect orbit back to Earth.

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