



Orbital Recharge in Space

New space economy in a snapshot

Context



«The space economy is expected to be **worth \$1.8 trillion by 2035** and averaging a **growth rate of 9% per annum**.

New space is about data & insights to deliver better and new product & services on heart»

World Economic Forum

New space players pursue economies of scale to mass-produce and cost-effectively deploy large constellations of small satellites

Old energy infrastructure



Clients' problems

*The new space paradigm still relies on **old-fashioned satellite recharge** cycles based only on solar arrays, leading to **low onboard energy availability***

Rigid service capabilities

Limited AI and computational capacity

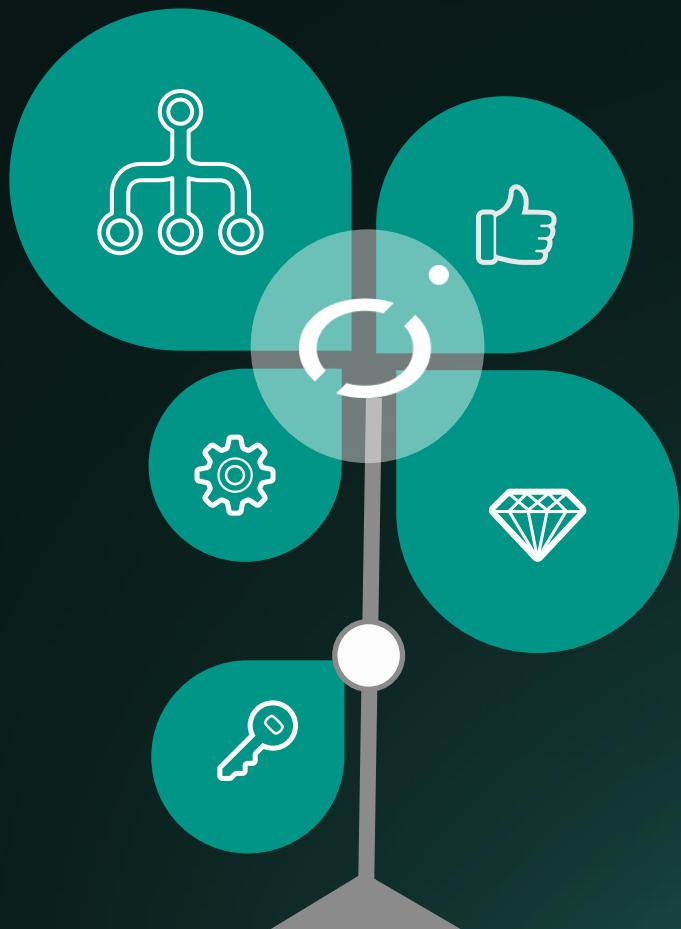
10%–40% of orbital time utilized for value generation

Limited data transmission capacity due to energy constraints

Because of energy constraints, satellite providers face high opportunity costs

ORiS' solutions

Value proposition



+50%

ORiS provides up to +50% battery extension per orbit, enabling:



Best performance **of AI onboard**



Service **flexibilities**



Longer duty cycle



Capex reduction for clients

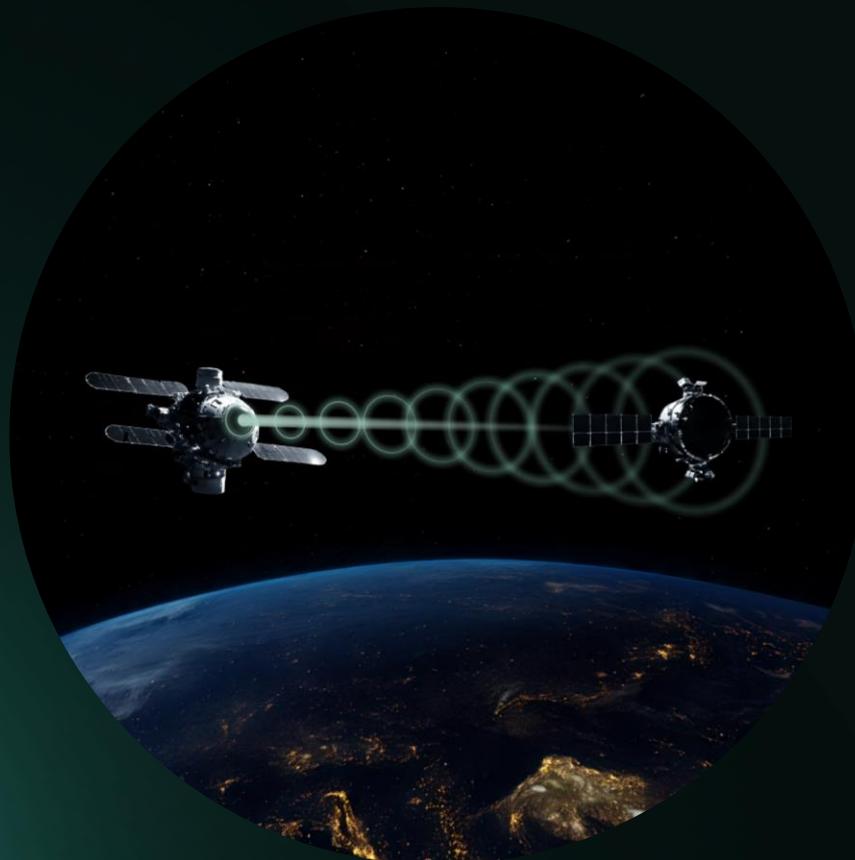


No need for retrofitting or any hardware add-ons to the client satellite.



Wireless power transmission

Concept of Operation



ORIS' service **charges space users** by wirelessly transmitting energy **from satellite to satellite** using laser technology



Patent granted in Italy, PCT extended, for energy transmission from one satellite to other satellites and to the lunar surface

Energy-as-a-service in space

Business model



ORiS provides in-orbit servicing, wirelessly charging clients' satellites using laser technology.



Space charging market

Initial fee for service activation
+
Service subscription

Defence application



ORiS is part of the NATO DIANA program



Drones, like satellites, face similar energy constraints, which significantly limit their operational capabilities



ORiS subsystems can find several application in defence applications

In the defence industry, ORiS positions itself as a technology provider.

Defence Segment



Drone defense industry

Reconnaissance missions in strategic, hostile and remote locations
ORiS system is useful for both to sustain flight and support the operations of drone payloads

Unique Value Proposition

Extend each drone's mission **life**
Risk of **return to base** for recharging **eliminated**
Maximizing in-flight **operations** and utilization of the drone payload

Market overview



Space

Earth Observation,
IOT, Hosting Payload

Market

Target customers

Global target
satellites

Target satellites of nationalities
from potential customers

1% of market gained
in the 5 years since market entry

TAM
\$31B

SAM
\$21B

SOM
\$210M

Defense

Defense drone
supplier

NATO drone recharge
and subsystems related

Italian target
customers subcontractor

10% of market gained
in the 3 years since market entry

Service Provider

ORiS' positioning

Technology Provider

Competitive scenario

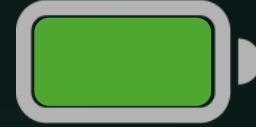
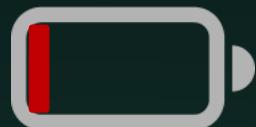
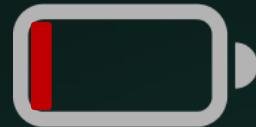
How ORiS is competing



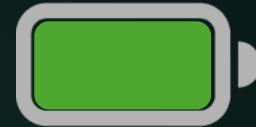
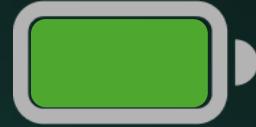
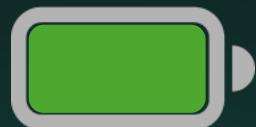
VOLTA



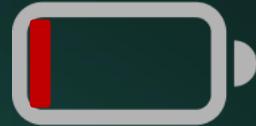
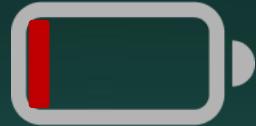
Power



Efficiency



Back compatibility



Funding received and collaborations



Who trusts in ORiS

Funding

€900k funds raised
through investment and
grants

€120k commercial
agreement signed

Partners

DIANA



business
incubation
centre
Turin



ThalesAlenia
Space
a Thales / Leonardo company

GALAXIA

TELESPAZIO
a LEONARDO and THALES company

ORiS Prototypes

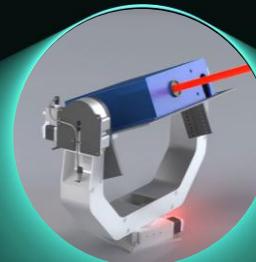
Tech development



First Prototype

Lab validation of the system

TRL 4



Second Prototype

Operational environment demonstration

TRL 7

Main features

1 kW power, tunable from 60 W

Double axis mechanism for pointing control
over long distances

Beam properties real-time modulation

Wireless communication system with the target

Financials

Projection



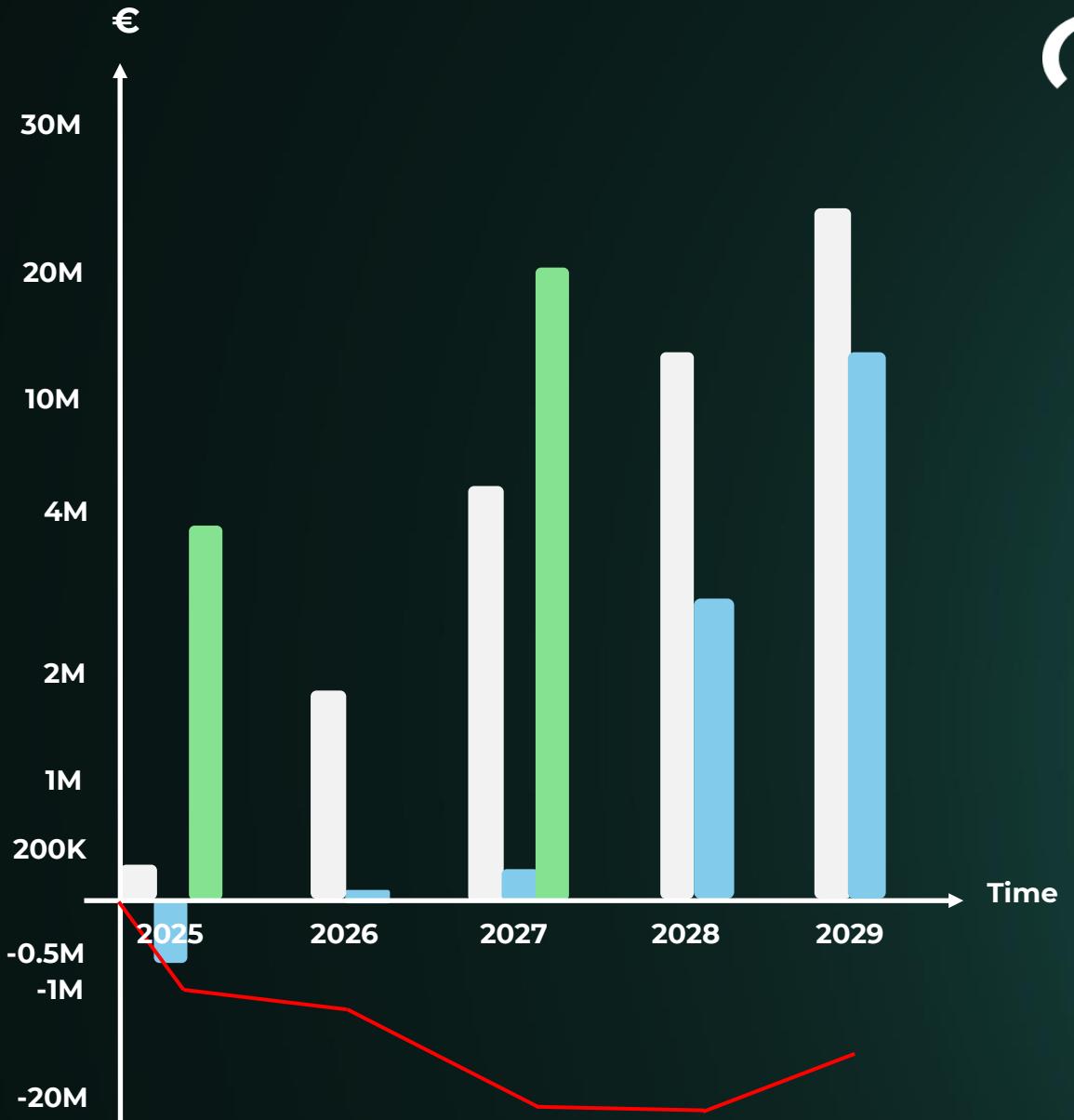
Seed round goal

Defence product development
and in-orbit demonstrations

Series A round goal

Space market entry and
expansion into other
countries

- Revenues
- EBITDA
- Proceeds from issue of share capital



Seed round work programme

Main technical milestones toward our in-orbit demonstration



2025

Payloads
Realization

Realization of two payloads representing the technological core of the full system

2026

Payloads
Validation

In orbit validation of our payloads

2027

System
Demonstration

Satellite to satellite power transmission

Team



Andrea Villa
Chief Executive Officer
Space Engineer
Executive MBA in
Innovative Technologies



Anna Mauro
Chief Technology Officer
Space Engineer
PhD Candidate in
Photonics Engineering

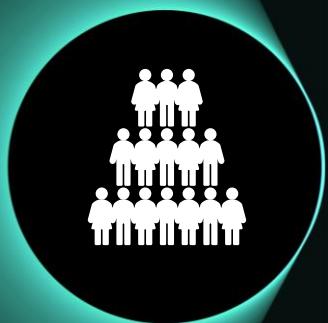


Domenico Edoardo Sfasciamuro
Chief Commercial Officer
Space Engineer
PhD Candidate in Mechanical
Engineering



Francesco Lopez
Chief Operating Officer
Space Engineer
PhD Candidate in
Energetics

Oris' staff



1 Lead Mechatronic engineer
1 Lead Mechanical engineer
1 Mission & System engineer
1 Electronic engineer
1 Business developer

Technical board



Stefano Mauro
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