



Company Overview

Creating the easy way from
Earth to the stars



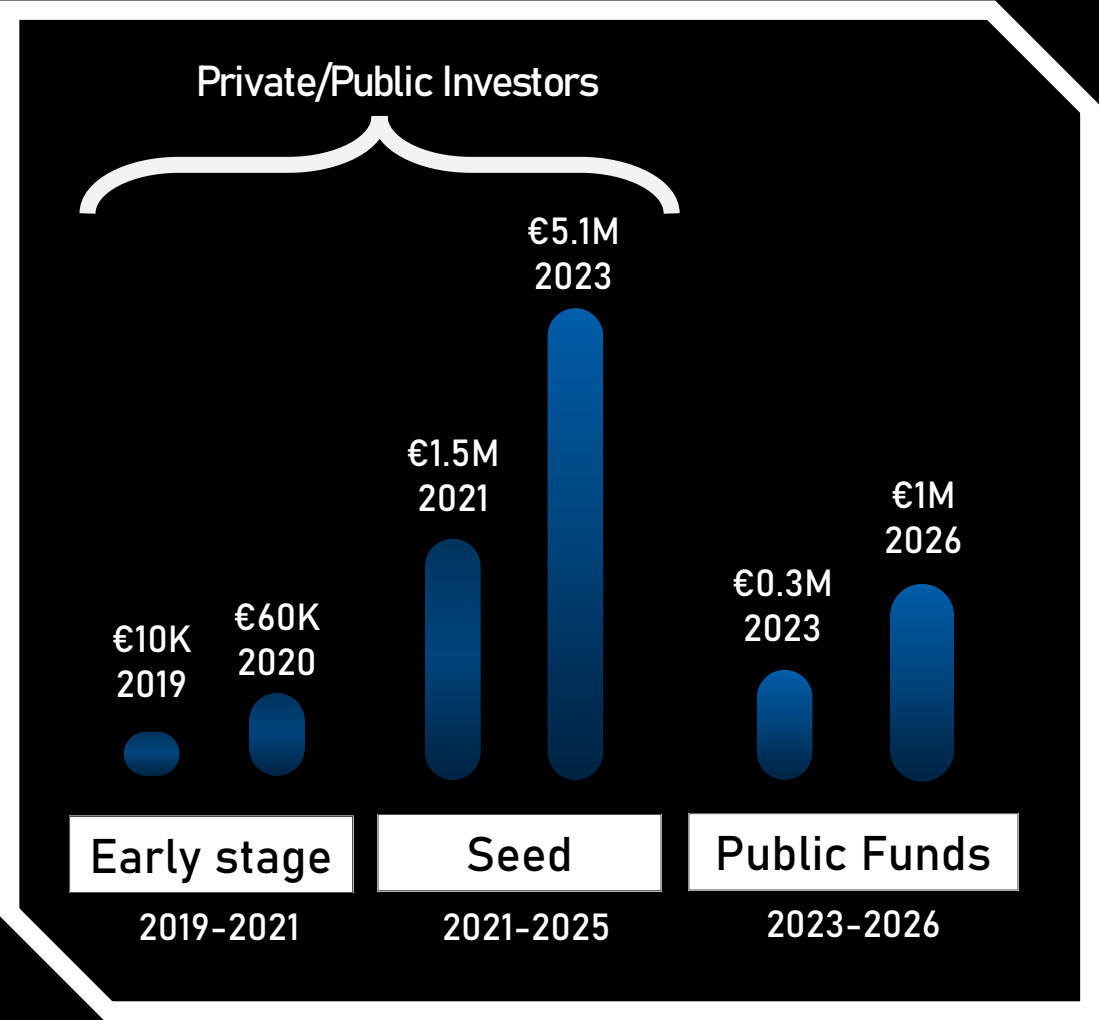
The Company

The company's name comes from the “**Sidereus Nuncius**” written in 1610 by **Galileo Galilei**, a treaty that revolutionized our knowledge of space.

With a similar aspiration Sidereus aims to change spaceflight by creating a **simpler way to access space** and bring the industrialization and colonization of what's beyond Earth one step closer.



COMPANY'S RESOURCES

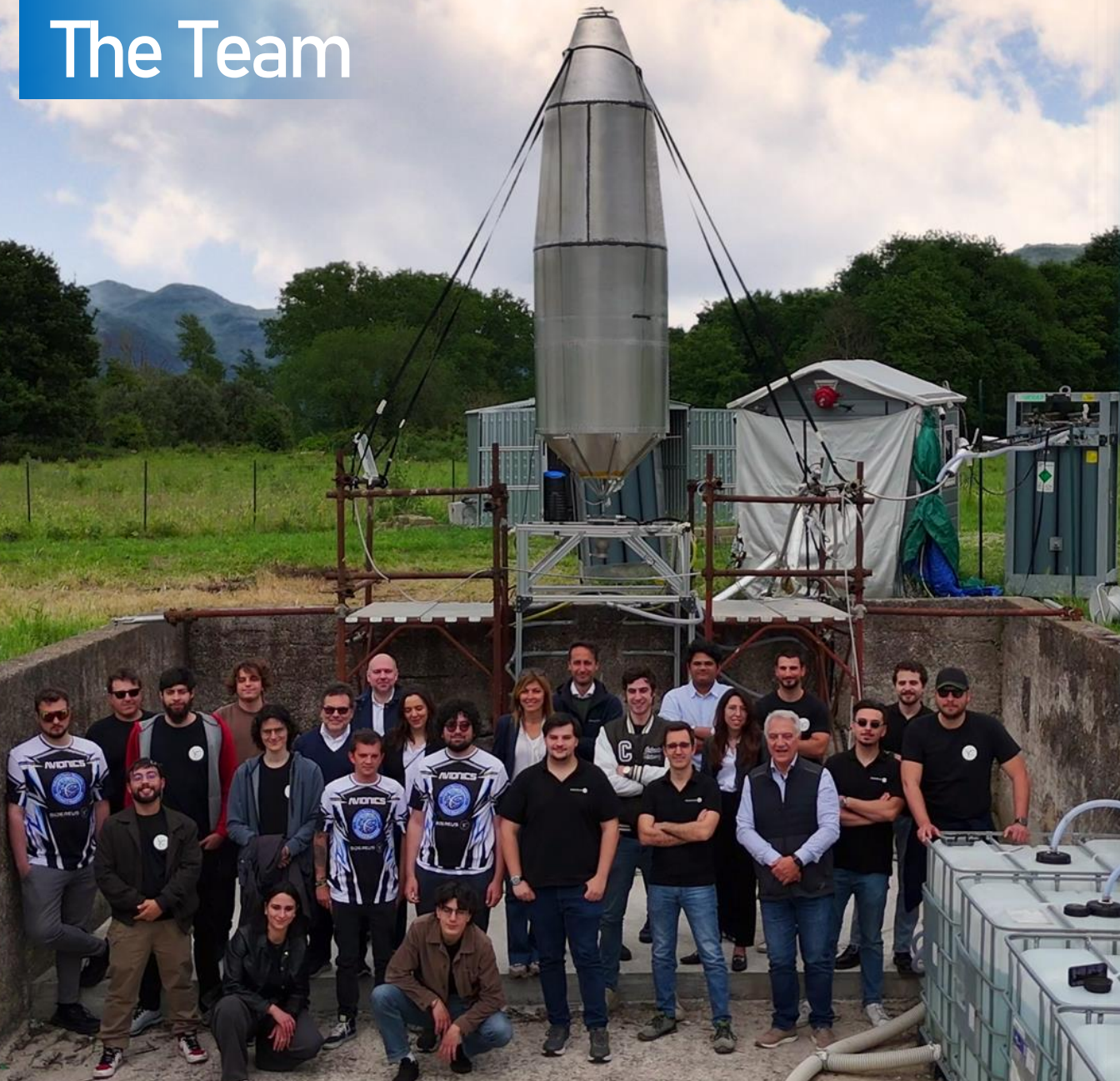


Turin Facility
Engineering and Space Propulsion Test Field



Salerno
Headquarters
HQ & Engineering

The Team



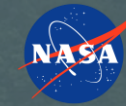
The Advisory Board



Pier Michele
Riviera



Jay Trimble



Emanuele Di
Stasio



Veronica
La Regina



The Investors



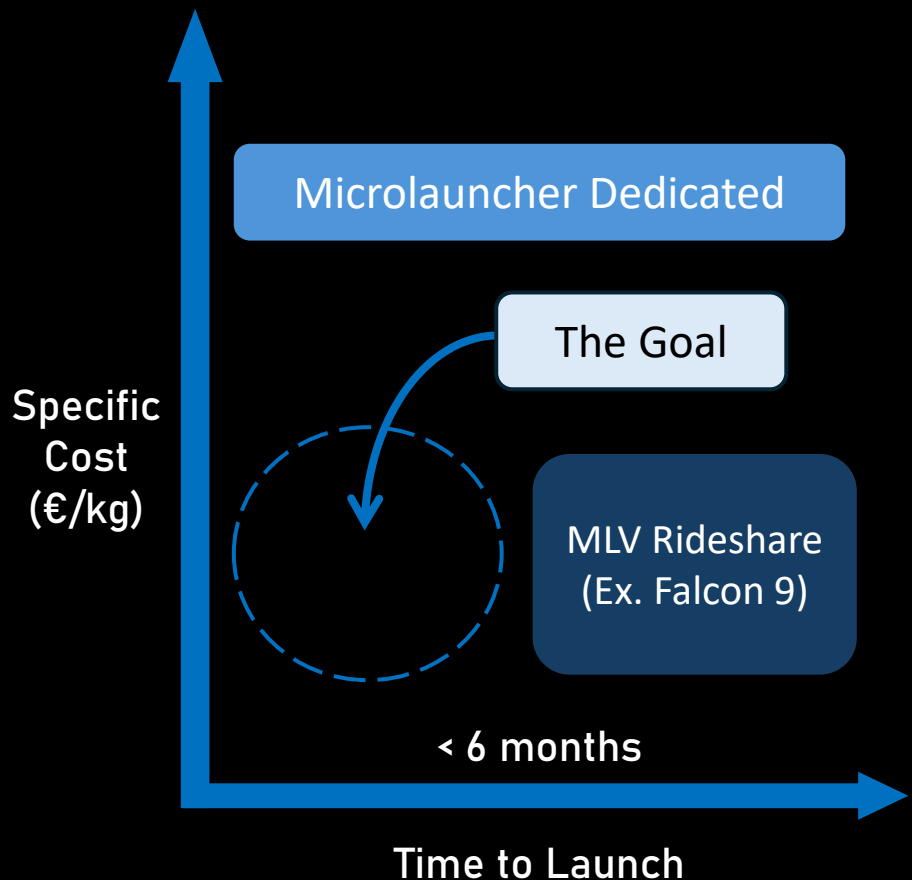
Experience from



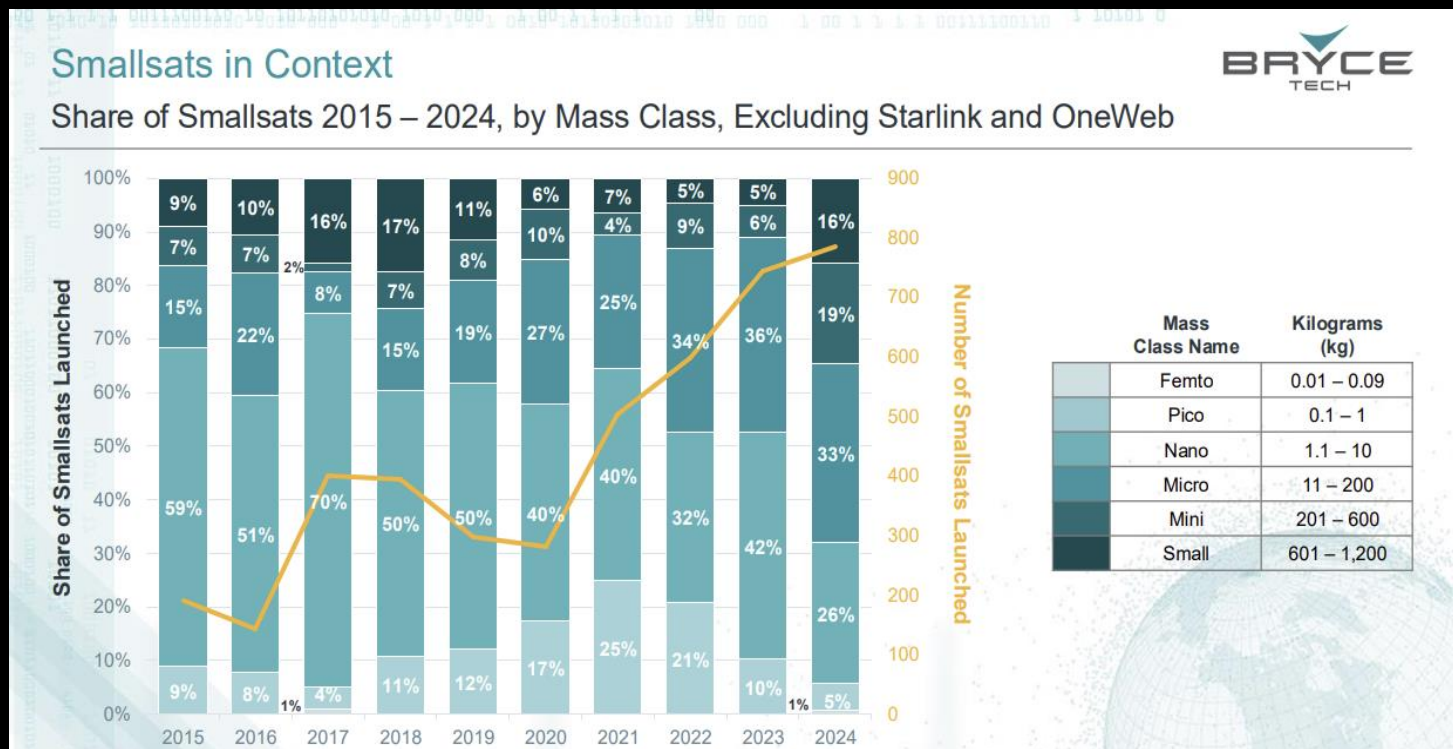
Politecnico
di Torino



The Opportunity



Fast&Affordable Space Access



63%

Of all the satellites launched are below
200 kg

1868

Satellites **below 200 kg** launched
in 2024 alone

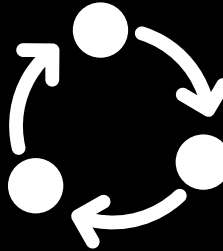
+20%

Increase in the number of small
sats yearly

232 kg

Average satellite mass in 2025
and is rising

The Secret Sauce



Step 1.

Containerized Architecture

More spaceport available for a higher launch cadence and lower specific costs with the same CAPEX.

Step 2.

Vehicle Reusability

High speed turnaround can prove faster and cheaper than manufacturing a new vehicle.

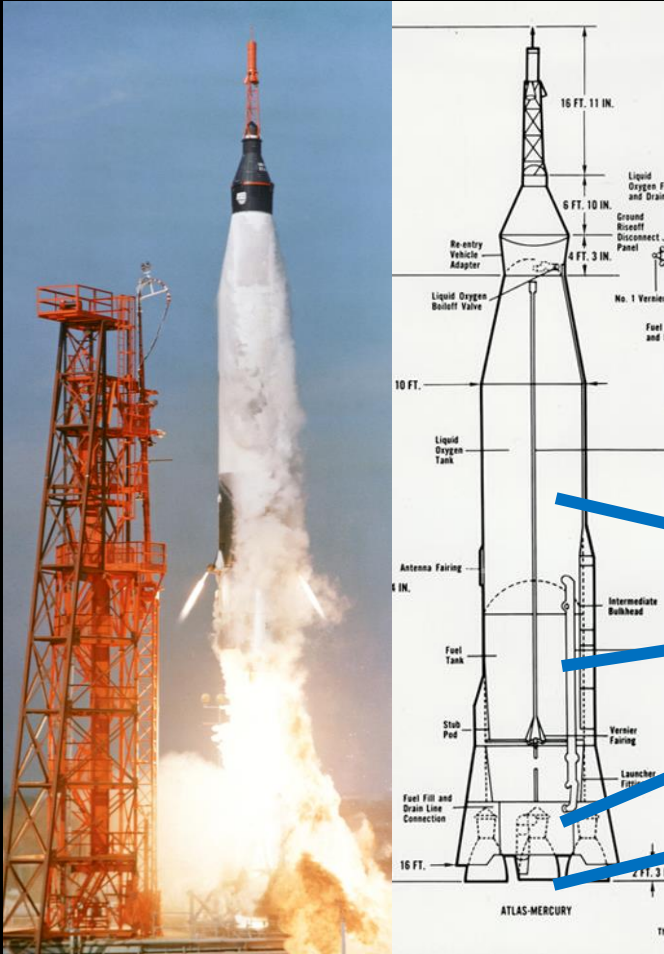
Step 3.

Failsafe Capability

Failure Detection, Isolation and Recovery allows for less launch restrictions and hence higher cadence and lower costs.

The Single Stage to Orbit

The Chimera of Spaceflight



DeltaV total: **10100 m/s**

(SSO 97.7° 550 km launching from the equator,
including losses and deorbiting)

ISP avg **312 sec** (260 SL-330 Vac)

Mass ratio = **27.1** (3,6% dry mass)

Atlas LV-3B
Was a 1 ½
stage to orbit
(1960)

1. **Effective Configuration**

→ **Bigger than a TSTO**

2. **Balloon Tanks**

→ **3% SS304 tensegrity**

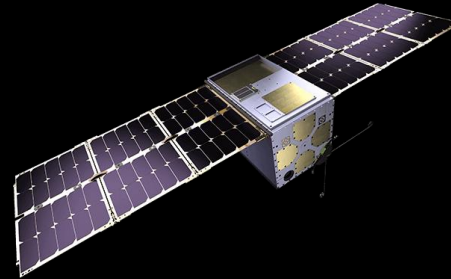
3. **High TWR propulsion**

→ **90:1, today Merlin 1D 190:1**

4. **Low BC reentry&landing**

→ **Non reusable**

The key for miniaturization



20-30% wt - Actual payload

70-80% wt – Satellite Bus
(ADCS, TT&C, Thermal Ctrl, Power)

Integrated Satellite Bus

Using the same onboard systems in
replacement of an additional bus

Lower cost

(3-5 Mln € less for a 50 kg sat)

Faster

(no additional R&D)

20-50 kg
payload

Can be
equivalent to

60 – 250 kg
satellite



The first design EOS

Fully Reusable SSTO



Quick Launch

Within a **few hours** from payload integration to launch for defense. **4 months/2 weeks** for commercial payloads.



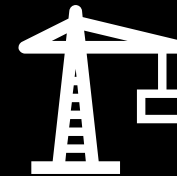
Integrated Satellite Bus

Providing power, telemetry, thermal, ADCS to a 50 kg operative payload, equivalent to a **150 kg small sat**.



Payload Reentry

Vehicle & Payload reentry and recovery via guided parachute for ground **maintenance, refurbishment and upgrade**.



No Infrastructures

No permanent infrastructures needed, containerized solution, minimum operation team, non-specific launch site.



MR5 Static Test Fire



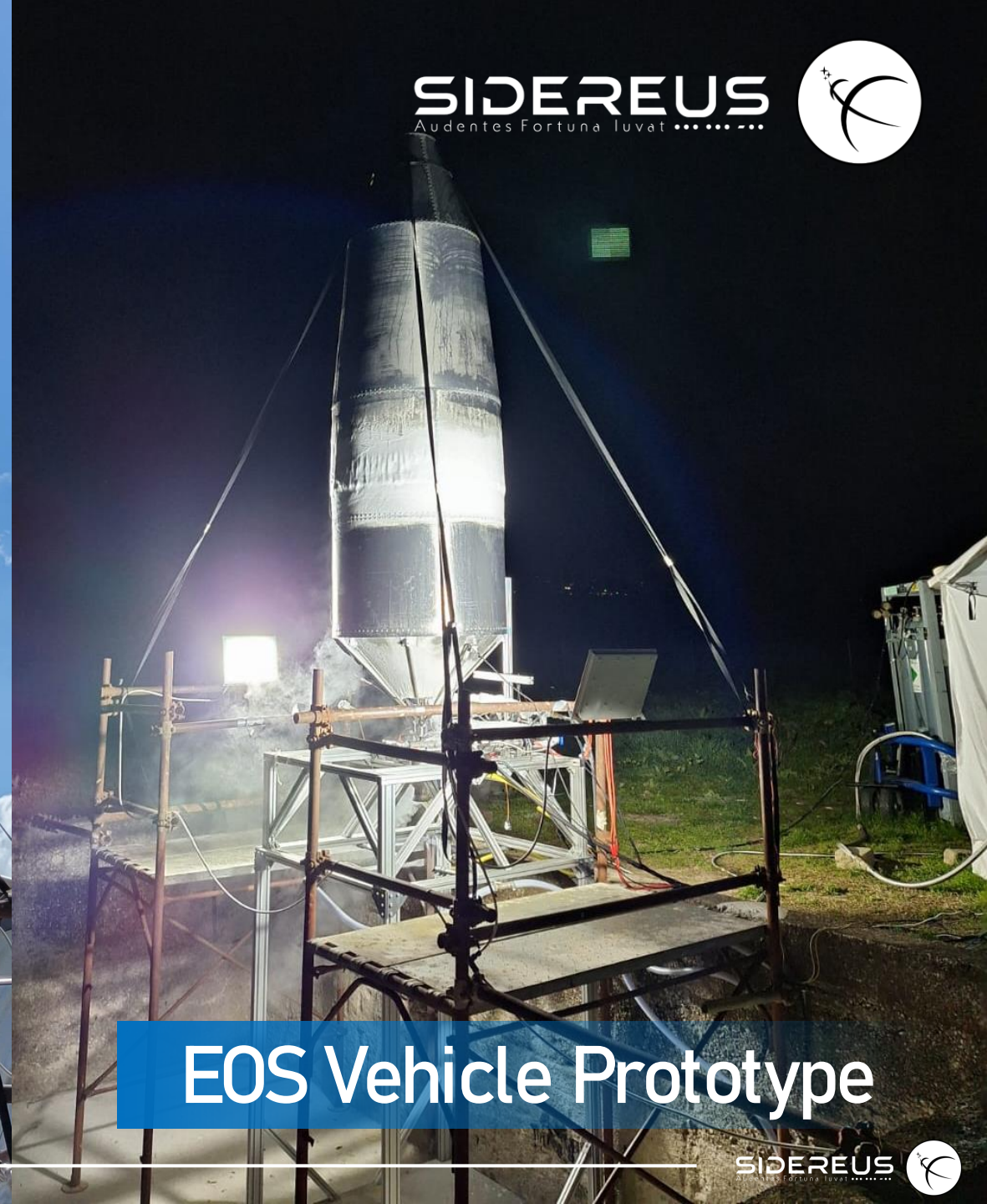


Proprietary Propulsion Test Field



Vehicle Assembly Facility





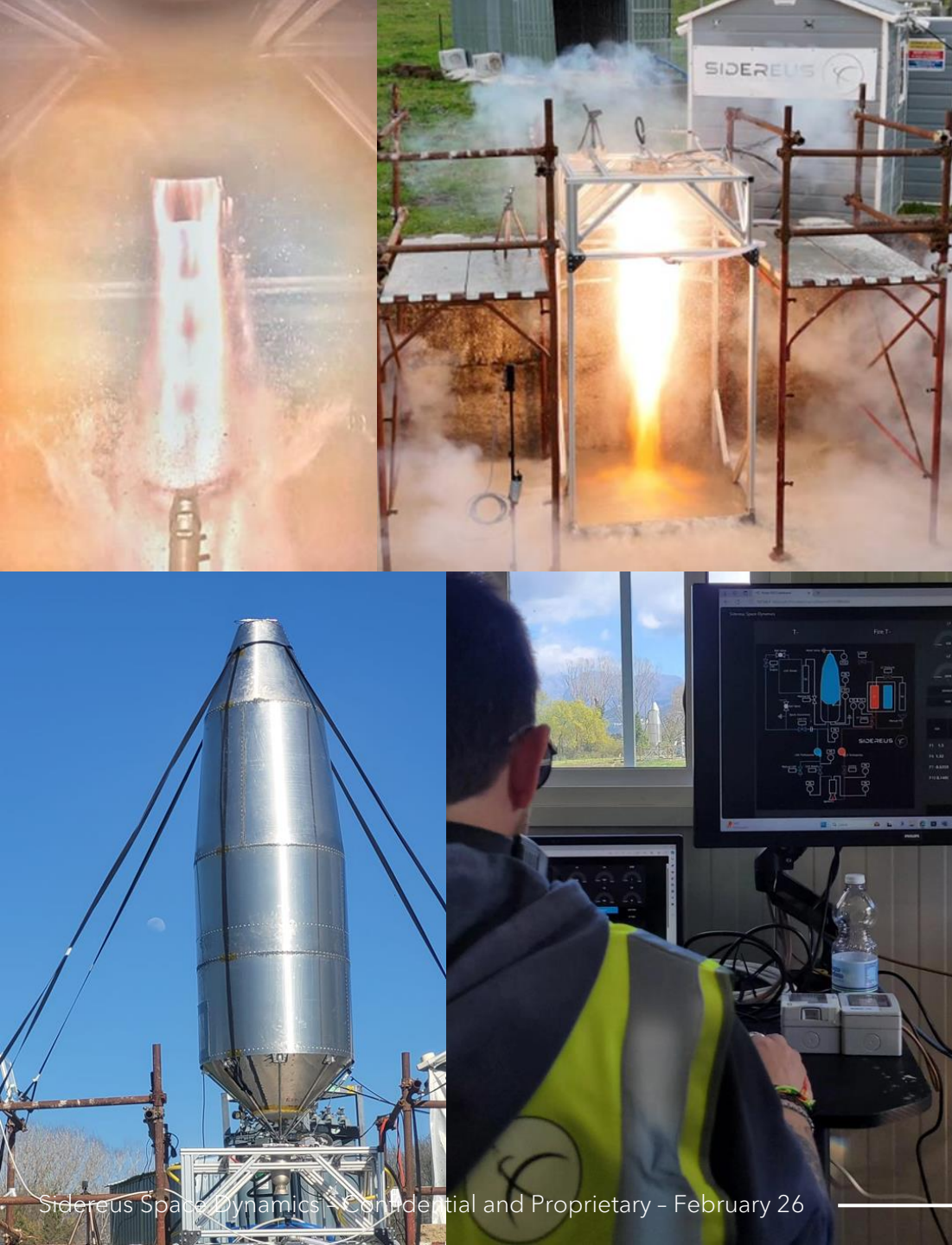
EOS Vehicle Prototype





EOS Integrated Systems Test





Achievements



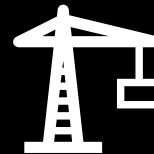
First Italian fully private launch vehicle **design and test**



First Italian **kerosene-based rocket engine** for an LV (96% C*)



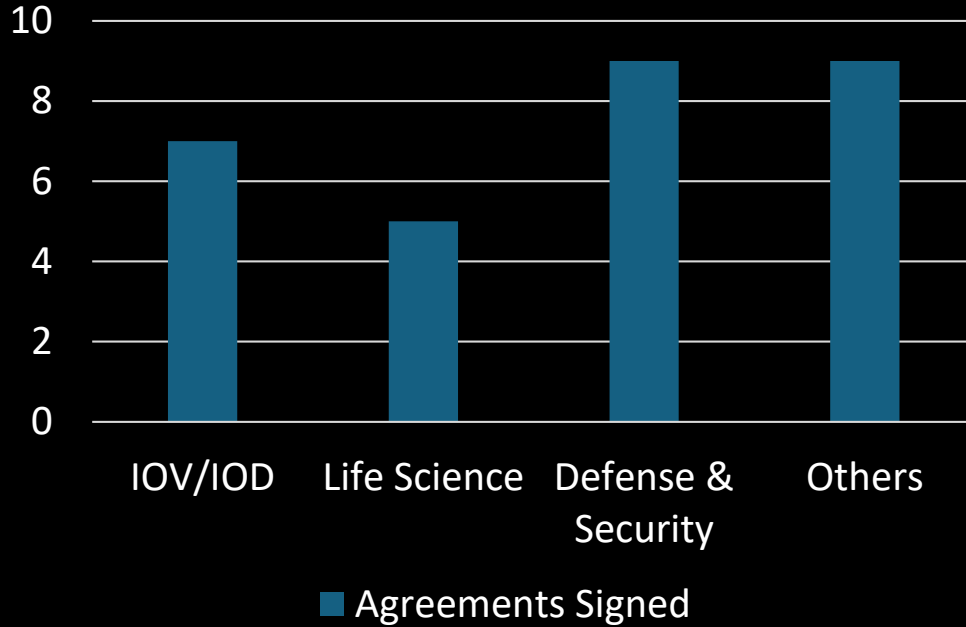
Lightest **space tanks** ever manufactured (1% structural)



First of its kind space propulsion **test facility** in Italy



Validated Launch Vehicle **Digital Twin**



35

signed agreements

\$100M

agreements value

Traction

Some of our partners:



Nanoracks



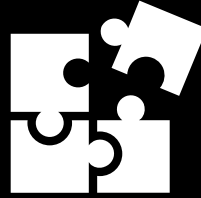
ENDUROSAT



D-ORBIT



The Evolution



Step 1.

Implementing existing geopolitical assets

Change the approach from a **low-profile fast-moving** company to a **national/European asset** with international competitiveness

Step 2.

Extending the payload capacity

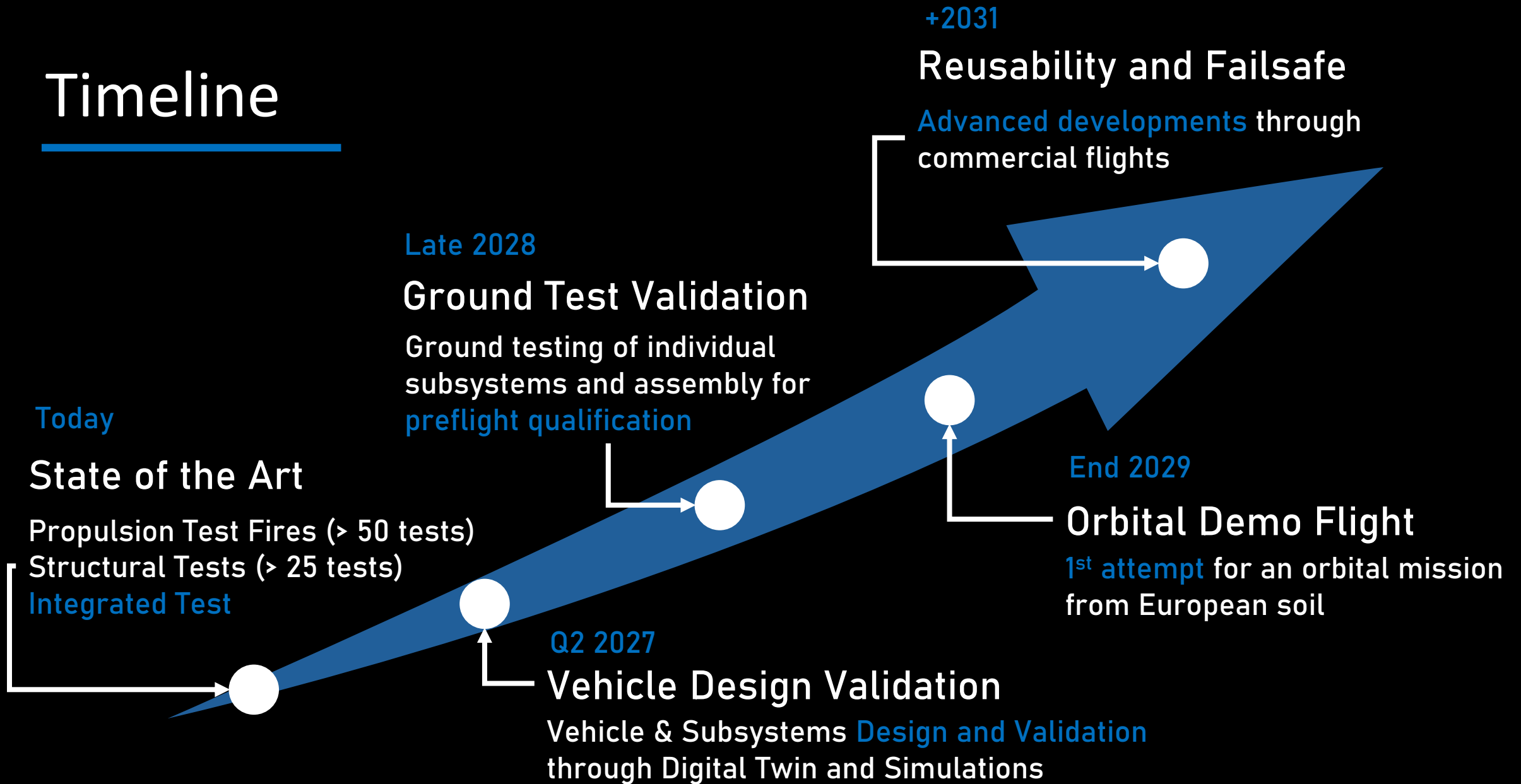
Moving from tens of kg of **payload capacity to hundreds of kg** to intercept existing contracts from public national and international contractors for **existing satellite platforms**.

Step 3.

Simplify and streamline the R&D

Optimize the design of the vehicle to accommodate the new payload capacity while still targeting a **first launch in a short time frame**.

Timeline



Thanks for your attention

Creating the easy way from
Earth to the stars



For contacts:

firstname.familyname@sidereus-space.com