A small, white, balloon-like stratospheric autonomous pseudo-satellite is shown floating in the upper left portion of the frame. It has a rounded, ribbed top and a thin line extending downwards.

# Insight from Above, Impact on the Ground

with our stratospheric autonomous pseudo-satellite

we are part of



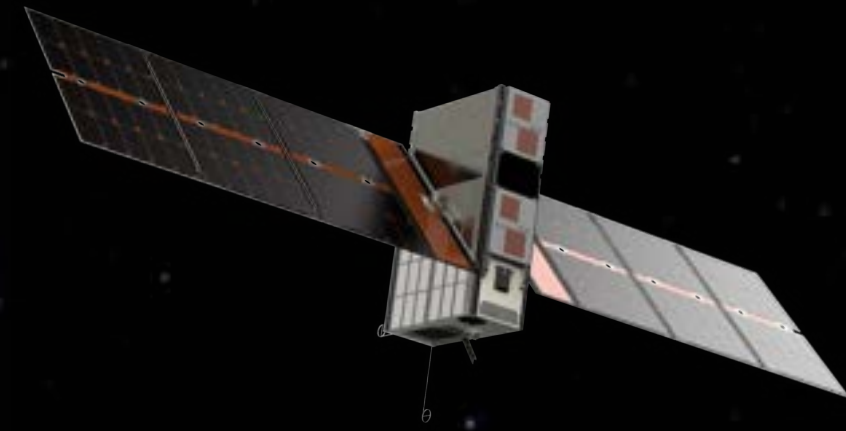
we're supported by





# Stratosphere is an opportunity

Satellites



Low resolution, low revisiting time, high costs

Stratostats®



High resolution, real time imaging, station keeping, low cost

Drones



Low altitude, short autonomy



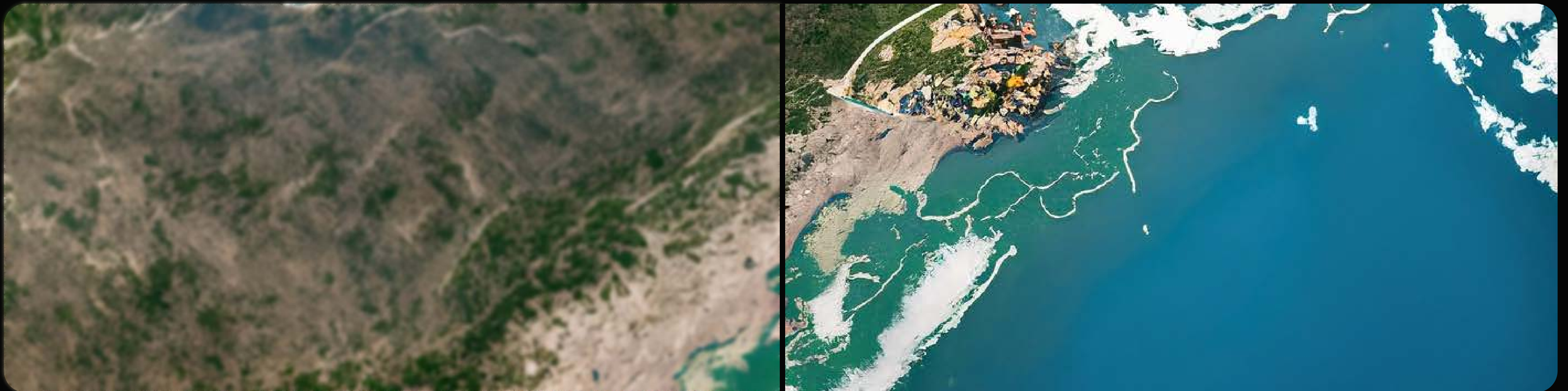
# Comparison with satellites

## WorldView-3 satellite:

- €70 per square kilometer
- 1m/pixel resolution
- Multispectral band
- Revisiting time 1 Time / Day.

## Stratostats®

- €5 per square kilometer
- 0.3m/pixel resolution
- Multispectral band
- Real time imaging



# Why we're not worried about satellites



## We're simply closer to the surface.

Most satellites orbit around 450km above the earth while stratoballoons hover at around 20km.



## Cloud cover impedes most optical imaging.

Multispectral images that permeate cloud cover are very expensive when taken from a satellite.



## Data downlink.

Satellites fly pretty fast (17,000km/h) and need to downlink relevant images while flying over a ground station.



## Revisiting time.

Satellites fly over the same target, depending on orbit, with frequency that goes from 1 to 4 days. This definitely not enough to monitor things that are moving at anthropological speed on the ground.

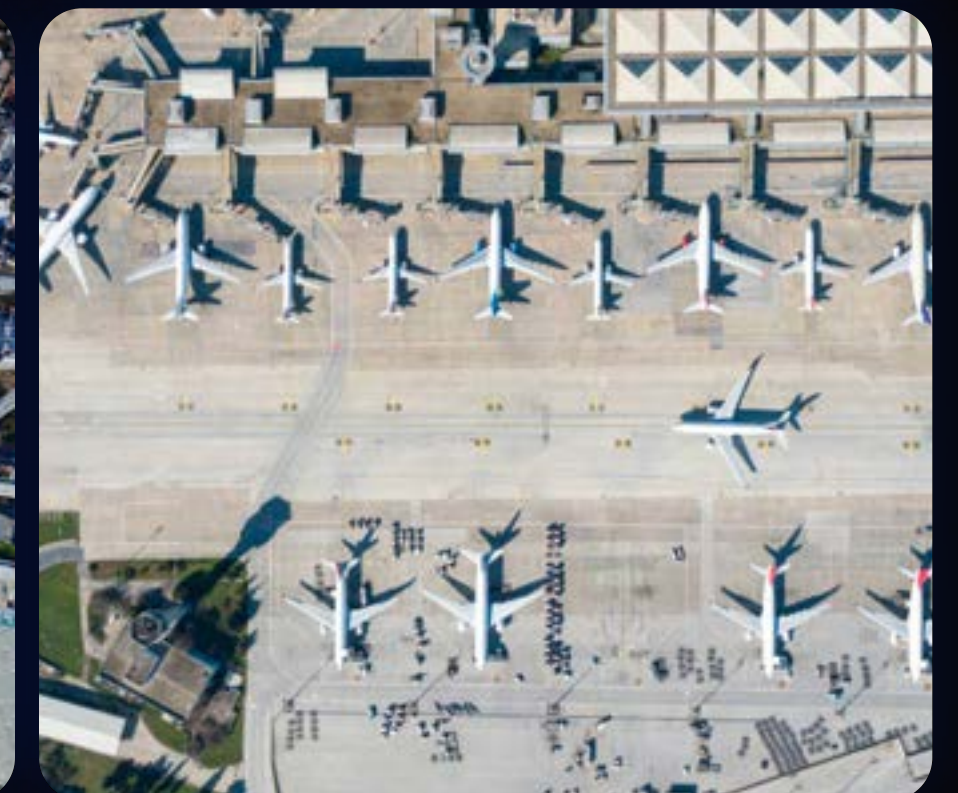


# Are we just making imaging better?

No, we're here to enable completely new applications, thanks to stratospheric imaging

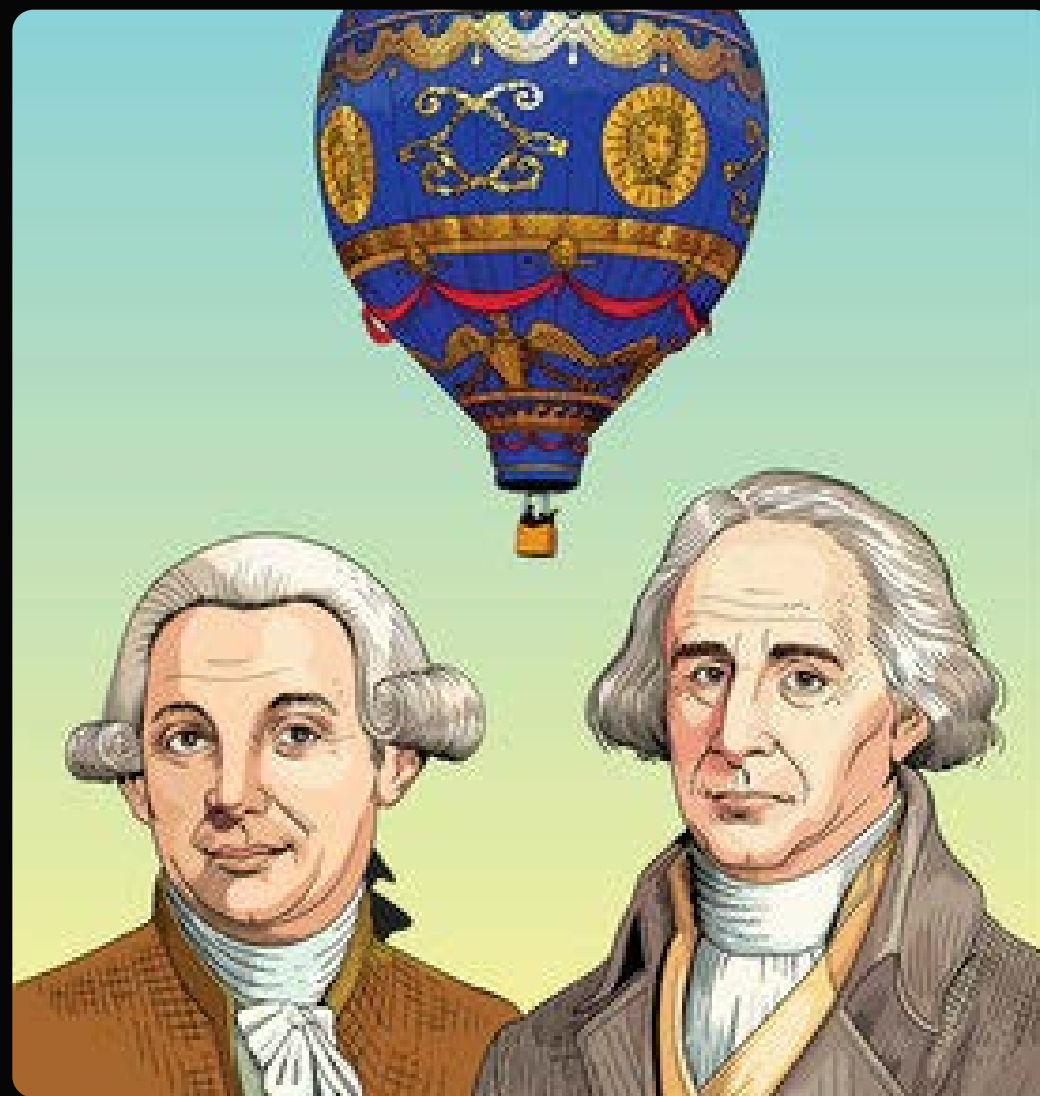
Let's think about anything that moves at the speed of humans:

- Airport logistics
- Traffic management
- Real time movement on the ground
- Construction sites
- Environment
- Energy infrastructures





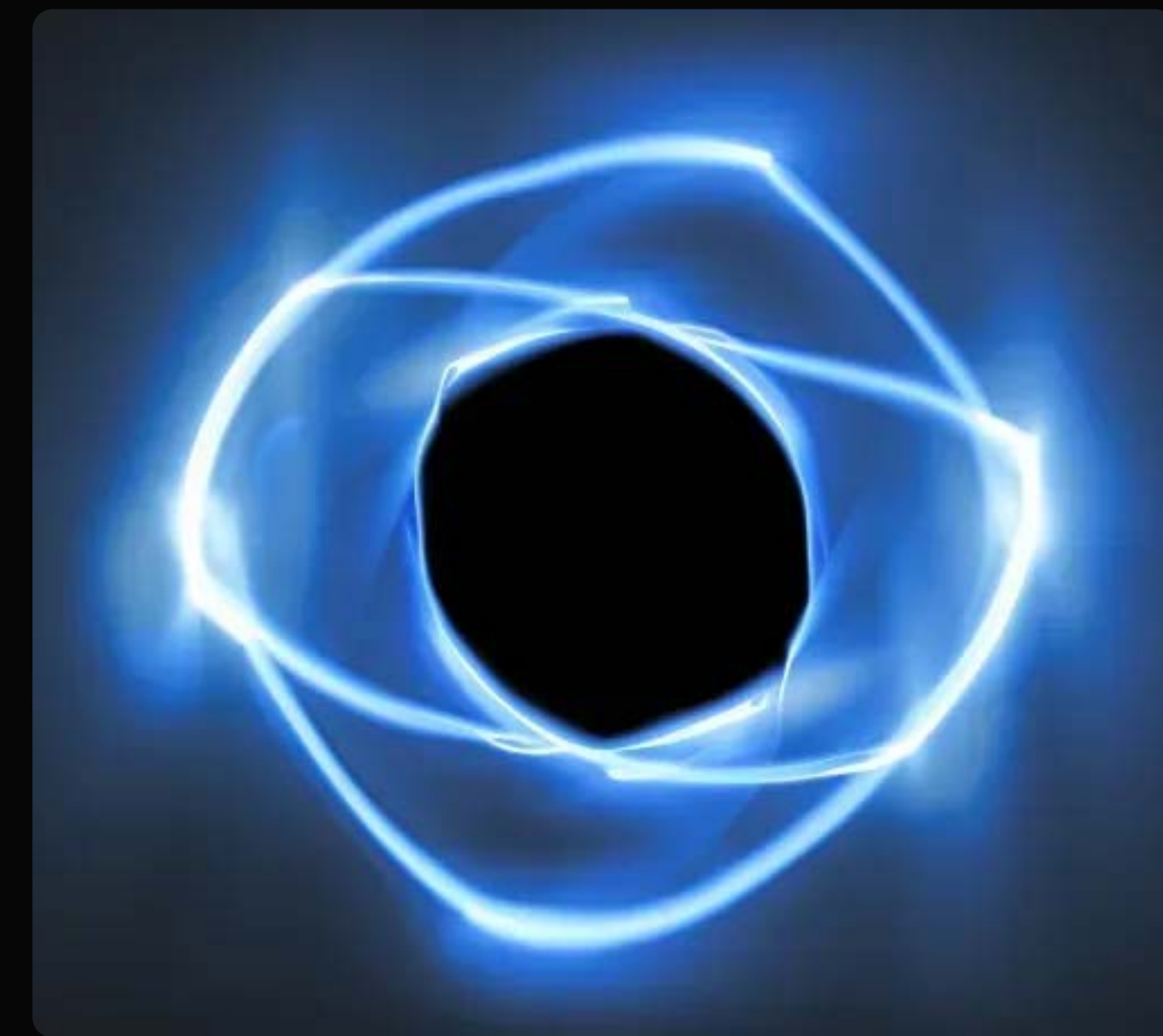
# Yet we did not invent balloons



1783 - Montgolfier  
Brothers



We've been lucky enough to  
bring in a lot of knowledge  
from the Loon project,  
with the CTO as our mentor



Speed and power of novel AI  
has helped us step up Google  
Loon's codebase: Neurostar  
was born

**Better solution**

**Stratostats®**

Emission free  
pseudo-satellite platform

**Reusable**

We always recovered both the payload  
and the balloon thanks to the soft landing



**Scalable**

**Station keeping**

**Real time data**

**Low cost**

**Fast deployment**

Flight ready in 7 days in Europe



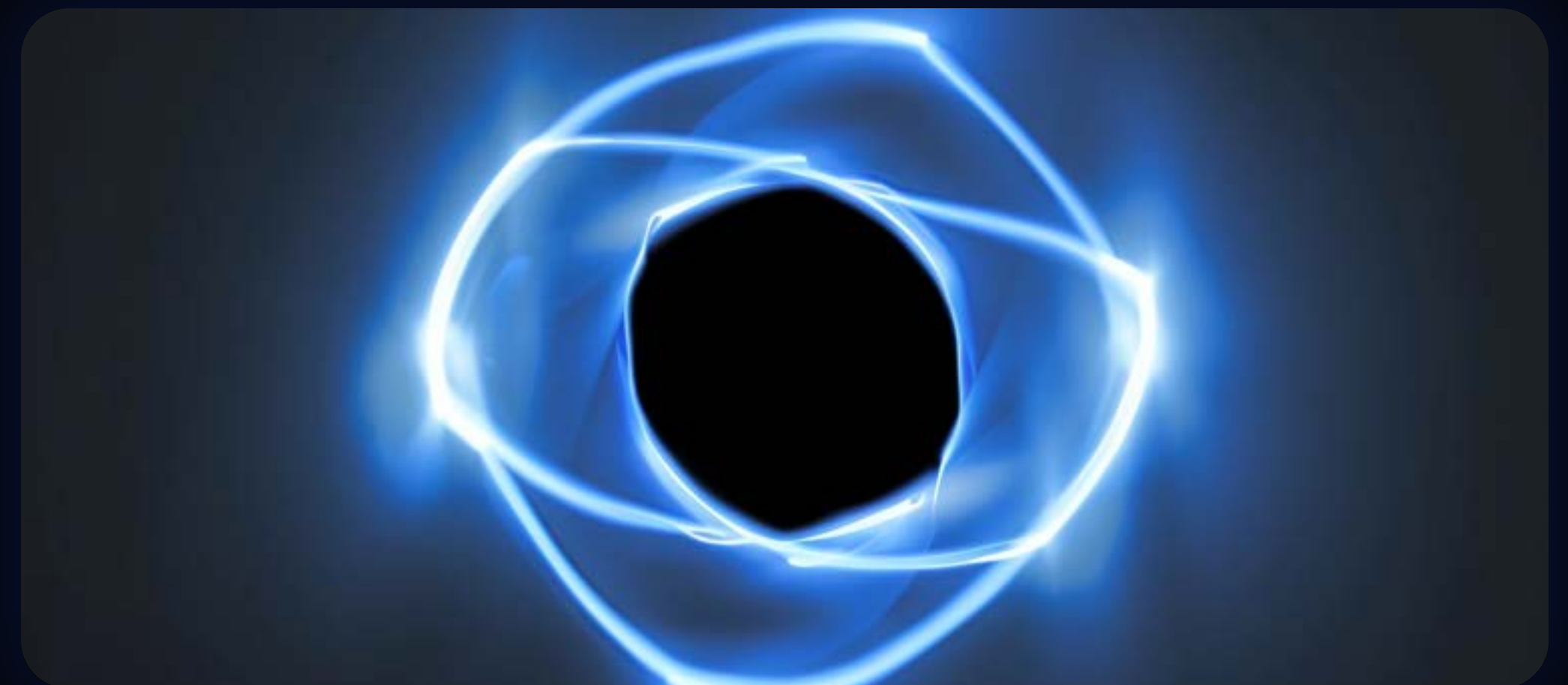
## Our solution: Stratostats®

Stratospheric satellite platform with a gondola towed by a stratospheric balloon above the 99,5% of atmosphere: we are at the edge of space.



## Neurostar®: our AI software

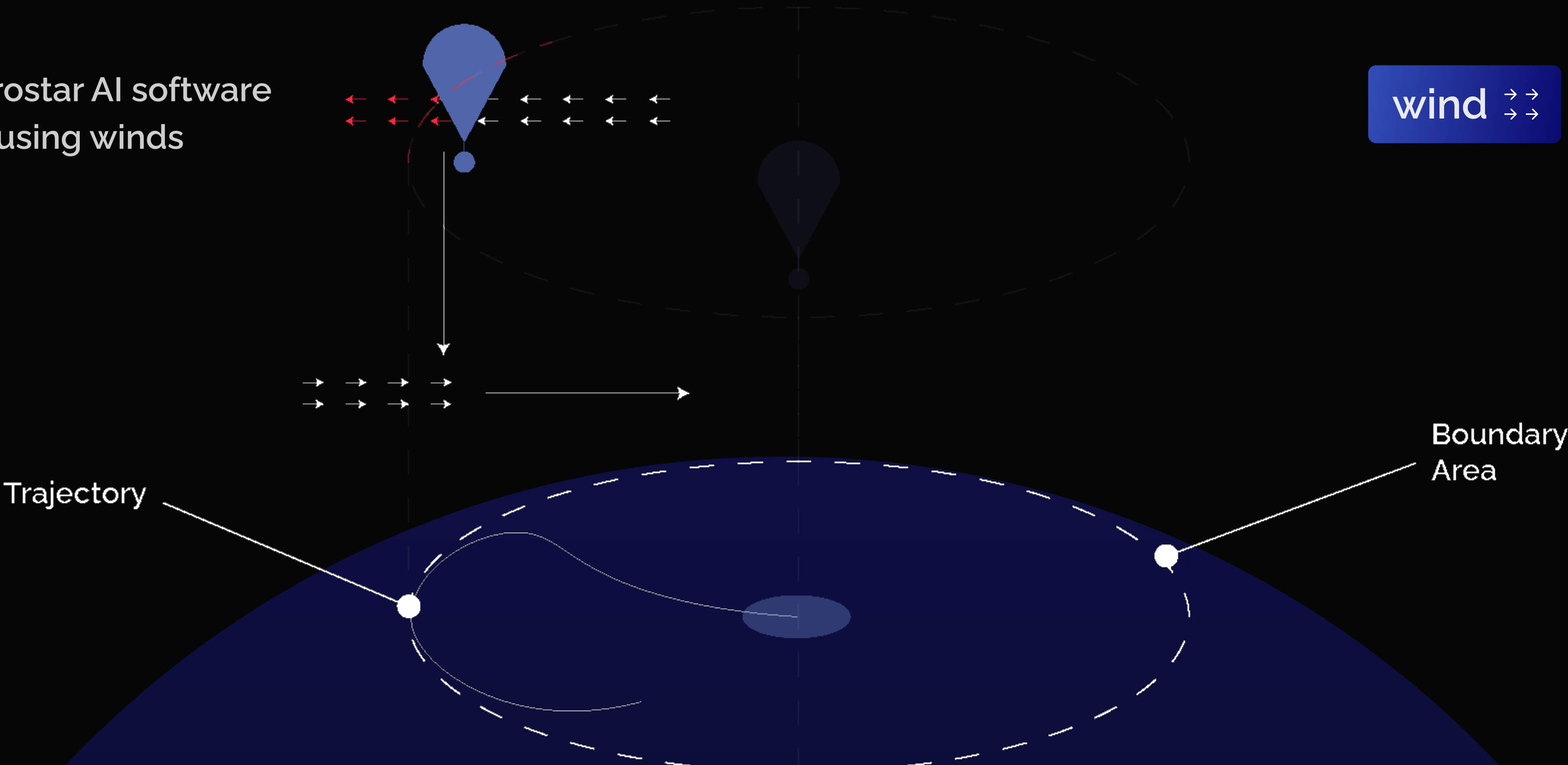
It can be used to optimize the attitude and the positioning of the platform through the calculation of the best trajectories.





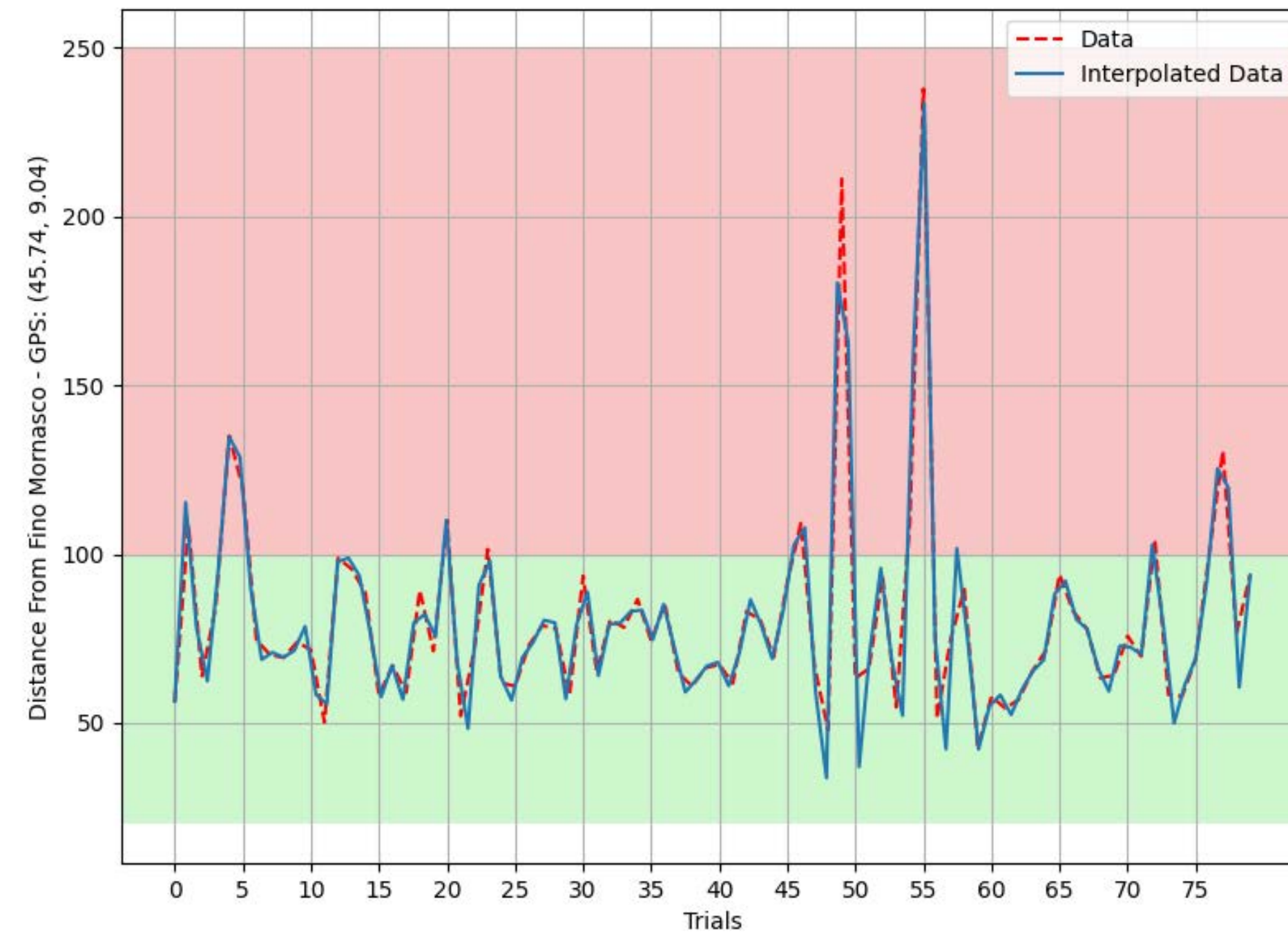
# Our primary asset

How Neurostar AI software  
operates using winds





# AI station keeping success around Como

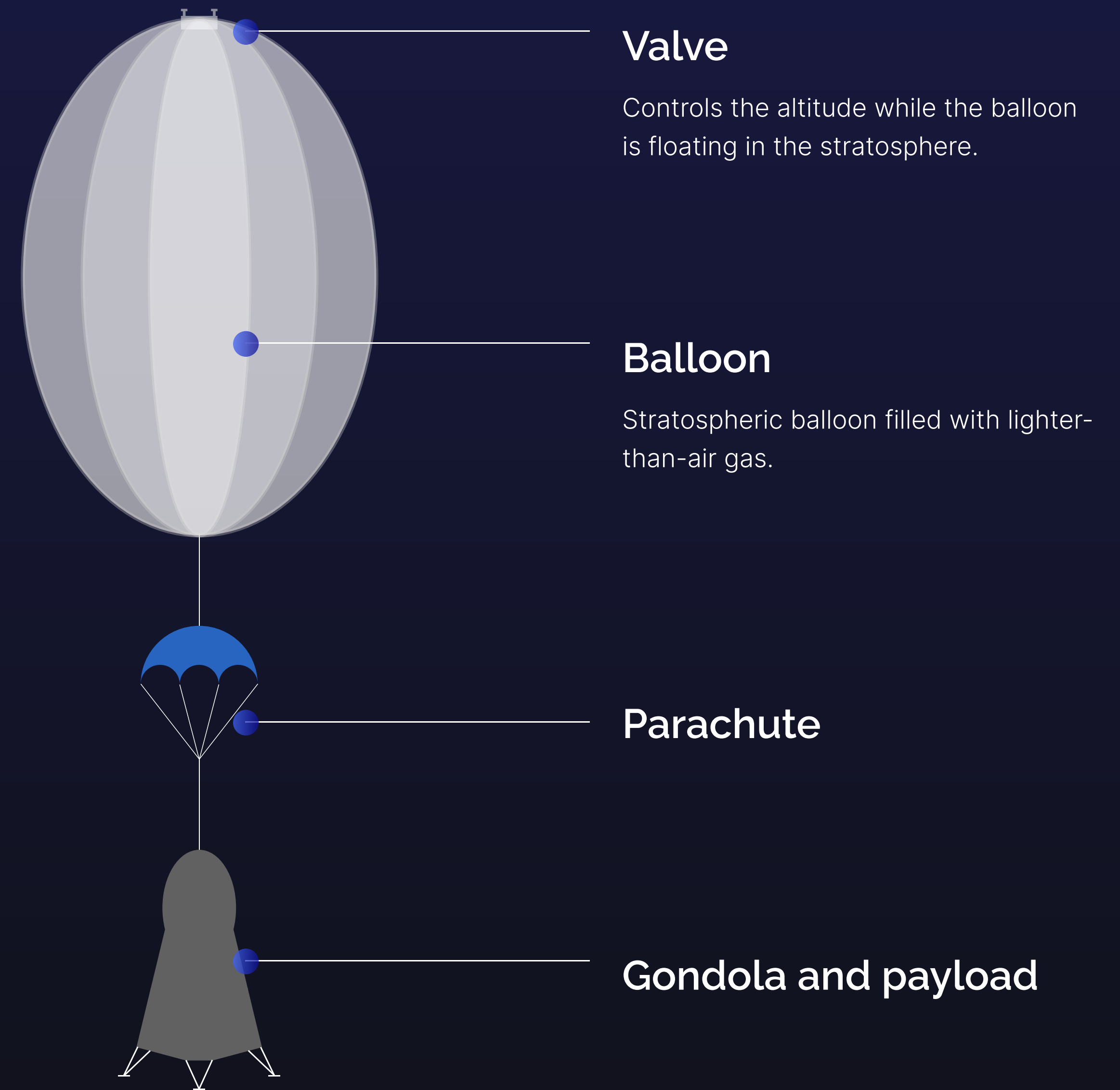




# Architecture of Stratostats®

The Stratostats configuration is composed of multiple elements to ensure the safety of the operation and enable clients to perform various missions with their payloads.

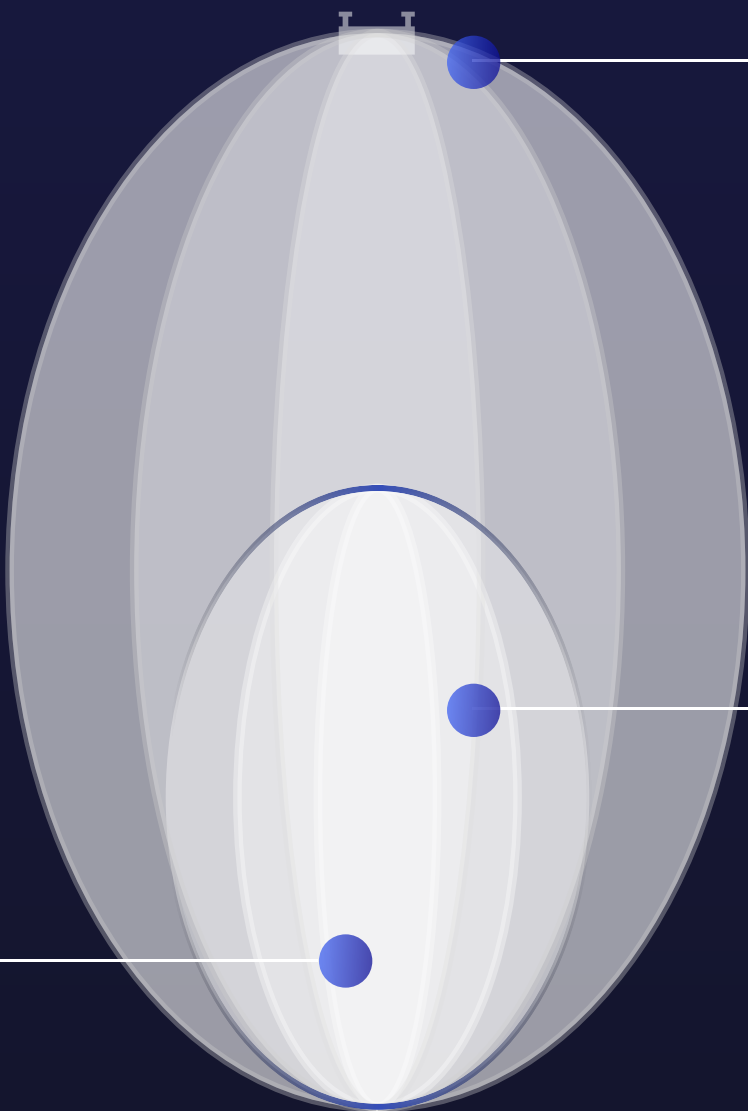
**2023** – Ballast to control the altitude, 2-5 days of controlled flight





**2024** - Double balloon with compressor  
to use air as a ballast, longer flight time  
(2 months by 2024 Q4)

**Pressurisation system**  
Second balloon as ballaster.



**Valve**  
Controls the altitude while the balloon  
is floating in the stratosphere.

**Balloon**  
Stratospheric balloon filled with lighter-  
than-air gas.

**Parachute**

**Gondola and payload**



# We have the technology, we have the traction. But it's not enough.

Try, fail. Try again, fail better.

## We have to improve Stratostats:

- Fly longer than a couple of days
- Handle extremely heavy image loads in downlink

We can maintain a stable position within a 70km radius

- from take off - which is already a great result, but we can do better!

2.000.000 seed round

- **Aerospace engineers:**  
Compressor development
- **Mechanical engineers:**  
Compressor development
- **Software developers:**  
Flight software implementation
- **Balloon manufacturers:**  
Balloon fleet production
- More flights, more testing.



# To be able to serve all our 2024 opportunities we'll need to scale manufacturing

- Hiring 2 new people
- Refining the process and starting to automate it

*We'll need less and less balloons as we grow our flight capacity*



Despite our product is in a primordial  
state with respect to where we want it in,

**We are the only Italian  
stratospheric missions supplier  
and one of the leading in Europe**

More than 25 successful  
launches in the last 2 years



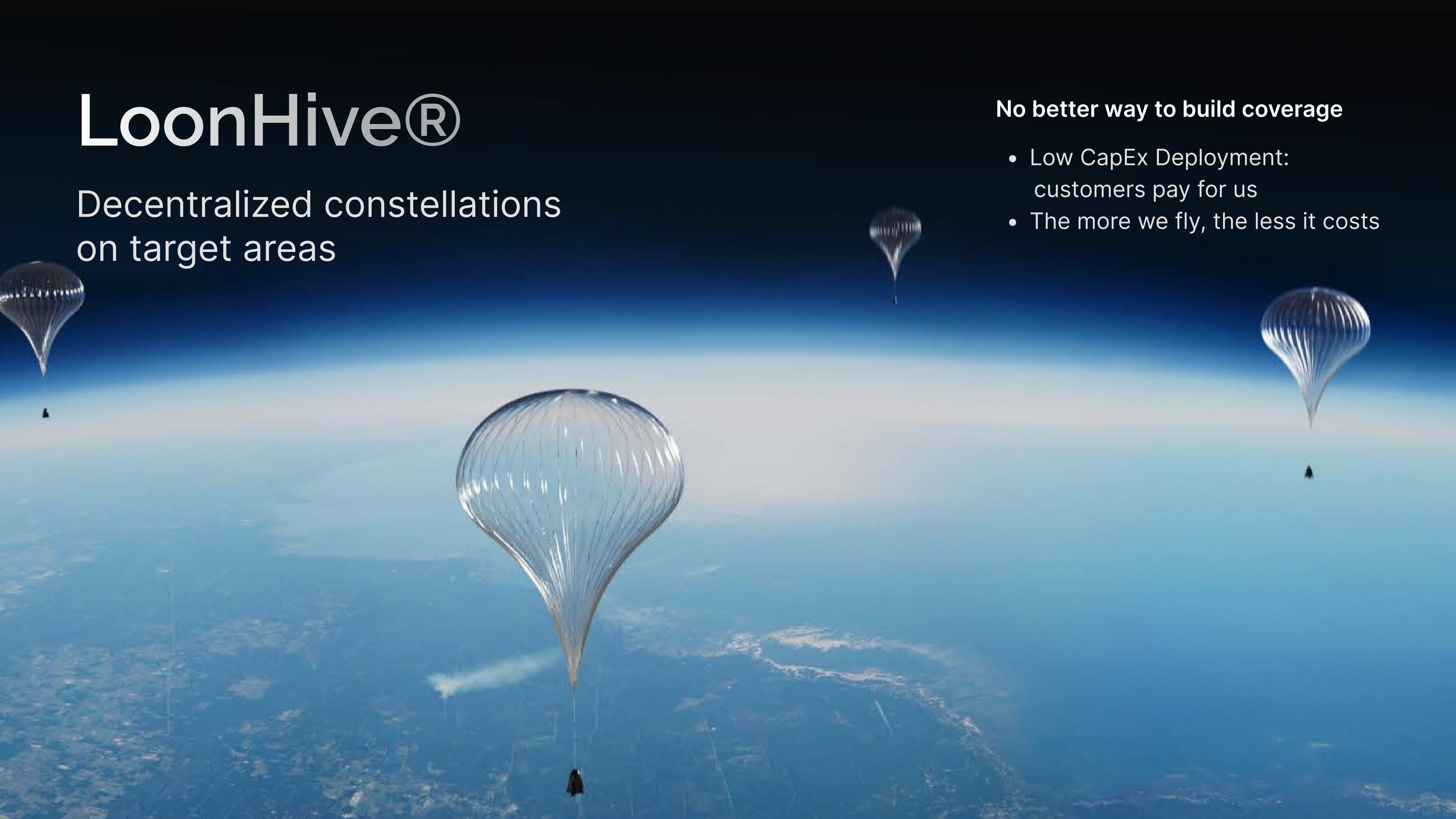


# LoonHive®

Decentralized constellations  
on target areas

No better way to build coverage

- Low CapEx Deployment:  
customers pay for us
- The more we fly, the less it costs



# Long Flights = Data Play

Our future platform: [app.involvespace.it](https://app.involvespace.it)

## Platform features

- Balloons monitoring target areas
- Image sales directly into the platform





# Revenue Model - 2024 Projection: €1.300.000

(Without the need of longer flights)

RIGHT NOW

## Recurring launches

Sales to final clients and  
imaging providers

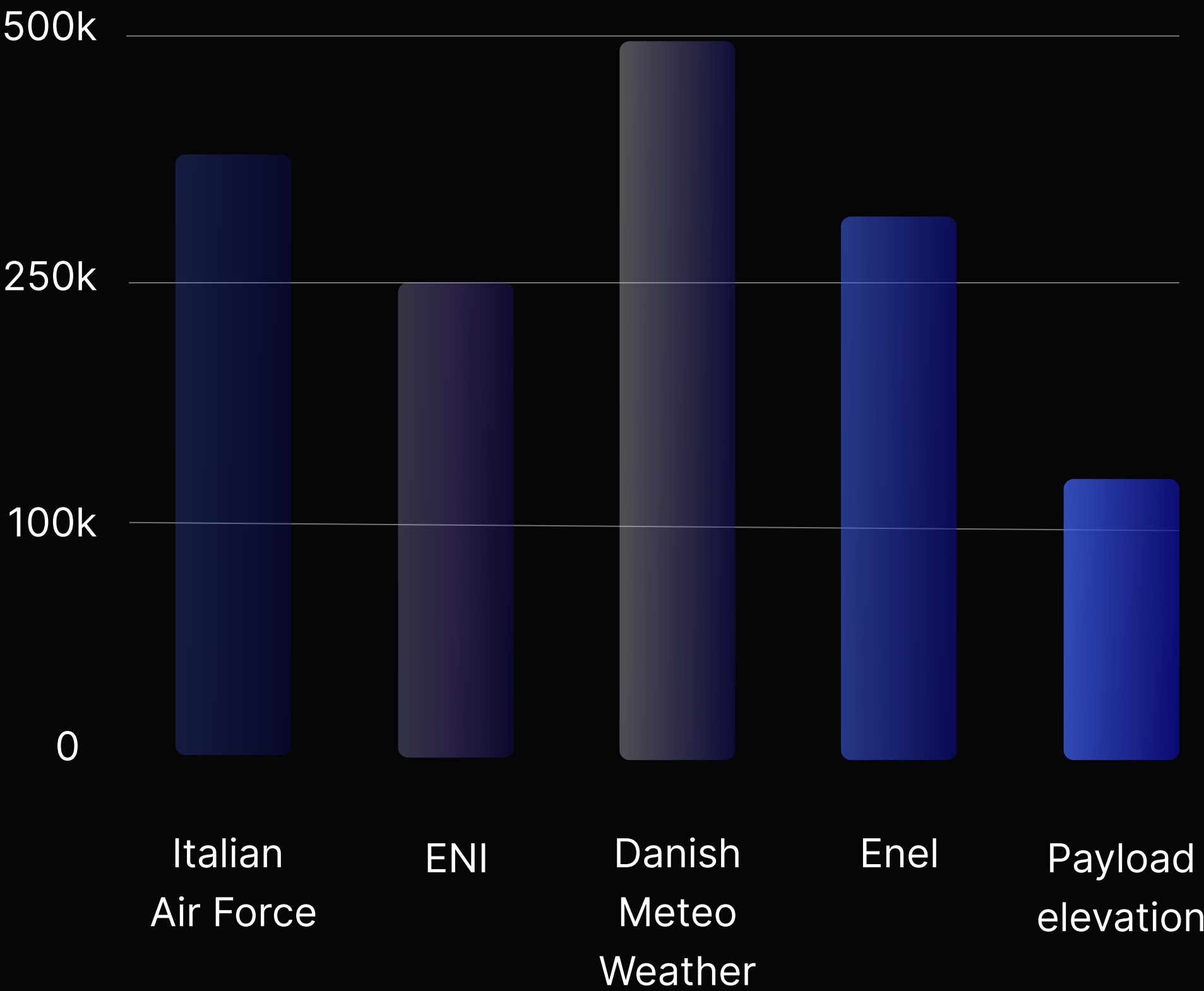
Launches sales

2024 - Q4

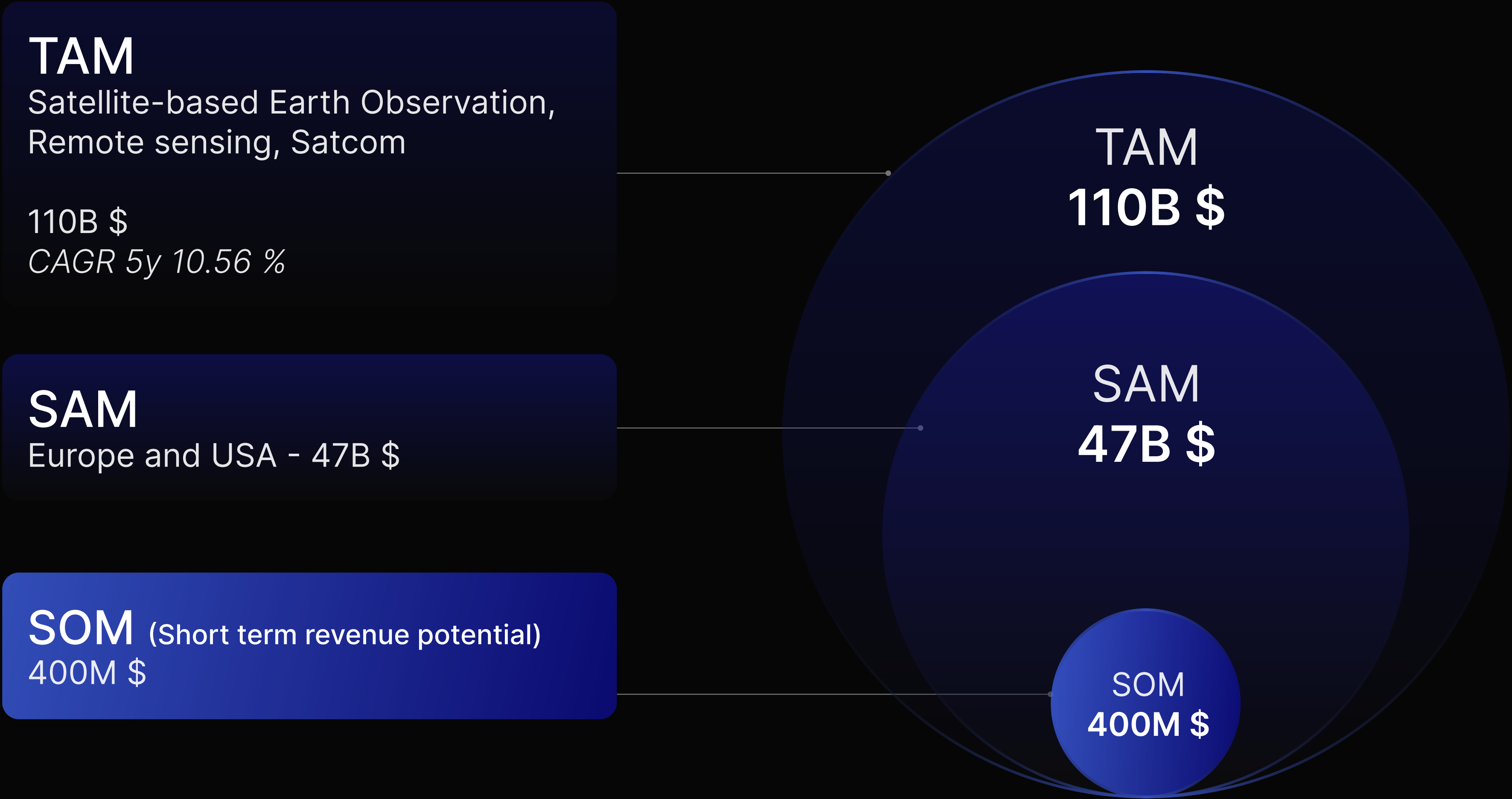
## SaaS

with single balloon and  
constellations

Data sales directly  
with a platform

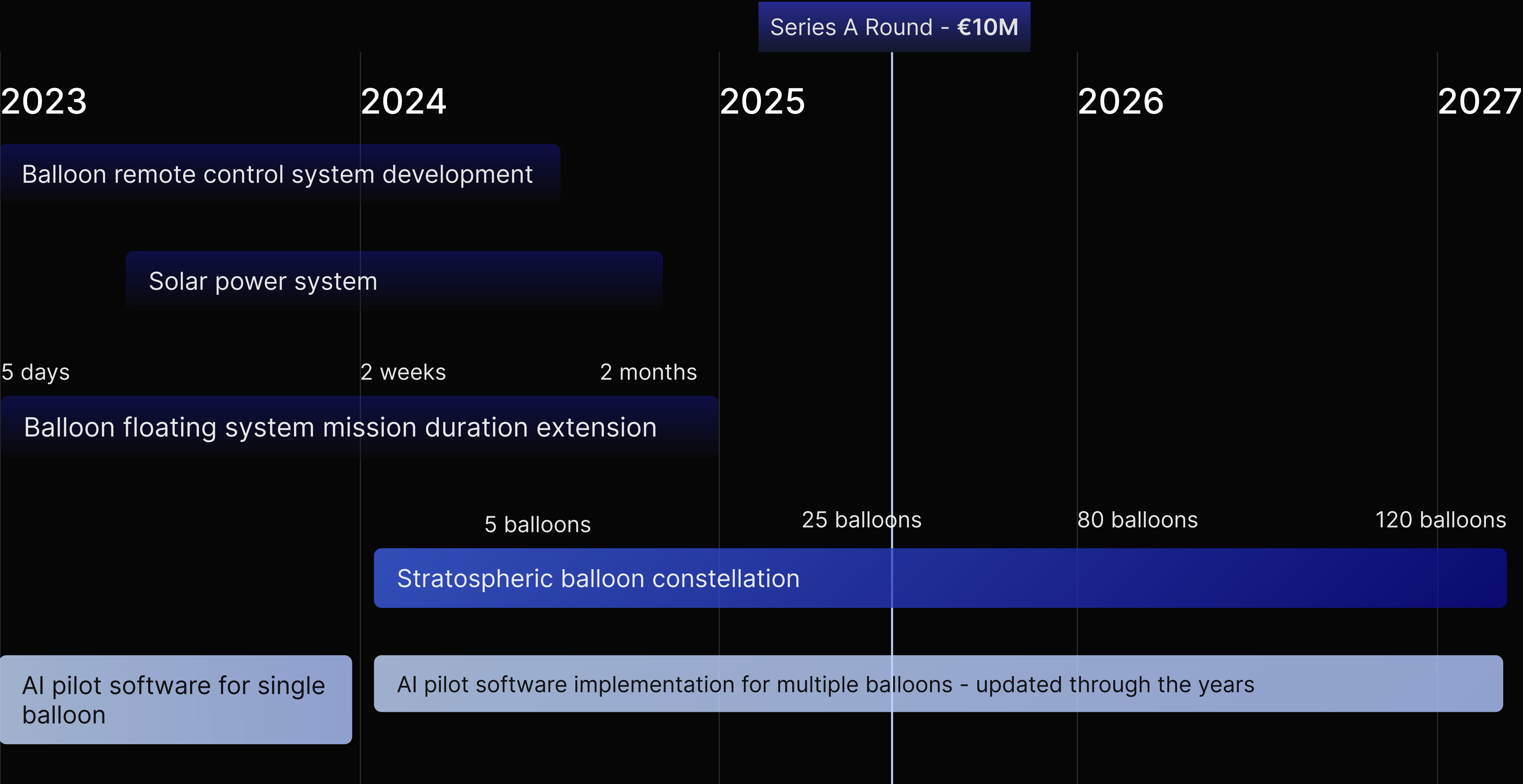


# Market





# Roadmap



# We are also creating the Arduino of space

DA VINCI CAELUM





# Our highly talented team



**Jonathan Polotto**

CEO, Corporate Strategy & Communication



**Claudio Piazzai**

Chief Operating Officer



**Raoul Vetere**

Chief AI Officer



**Alice Fontana**

Designer & Chief Innovation Officer



**Rocco Corsini**

Chief Technology Officer



**Alessandro Piazza**

Software Developer & Mission Control Manager



**Fabio Spadaro**

Structural Specialist



**Leonardo Rossoni**

Avionics & Embedded System Developer



**Daniele Aversa**

Head of Communication



**Daniel De Nardis**

Finance, Grants and Administrative Manager



# Our business development team



**Angelo Tofalo**

Defense

Former Undersecretary of  
Italian State for Defense



**Courtney Stadd**

USA

Ex NASA Administrator  
Ex White House



**Veronica La Regina**

Earth Observation

Former CEO at Nanoracks



**Nicolai Iversen**

Scandinavia

(Involve Space Nordic)

Business Development  
Manager, Odense Robotics  
Fund



# Major partners and advisors

Trusted by



Venture capital that have already invested in us:



Our advisors



**Lance Nichols**  
Engineer at Boeing  
Ex NASA HAB



**Antonio Saitto**  
Advisor ESA, ASI  
Ex Thales Alenia Space  
Ex Telespazio



**Paolo Cerabolini**  
CTO at Thales Alenia Space  
Ex OHB Italia



# Your first step towards space

[www.involvespace.it](http://www.involvespace.it)

CEO, Corporate Strategy &  
Communication

[jonathan@involvegroup.it](mailto:jonathan@involvegroup.it)



**Headquarters:** Via Garibaldi, 118, 22073 Fino Mornasco (CO), Italy

**Rome:** Via Giacomo Peroni, 442/444 c/o Spazio Attivo Lazio Innova

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