





- Operational thermal sensors in space
- Providing Intelligence-as-a-Service for
 - Smarter firefighting
 - **Energy Utilities**
 - Agriculture
 - **Urban Heat**
- €2M ARR with customers worldwide, aiming profitability in 2025



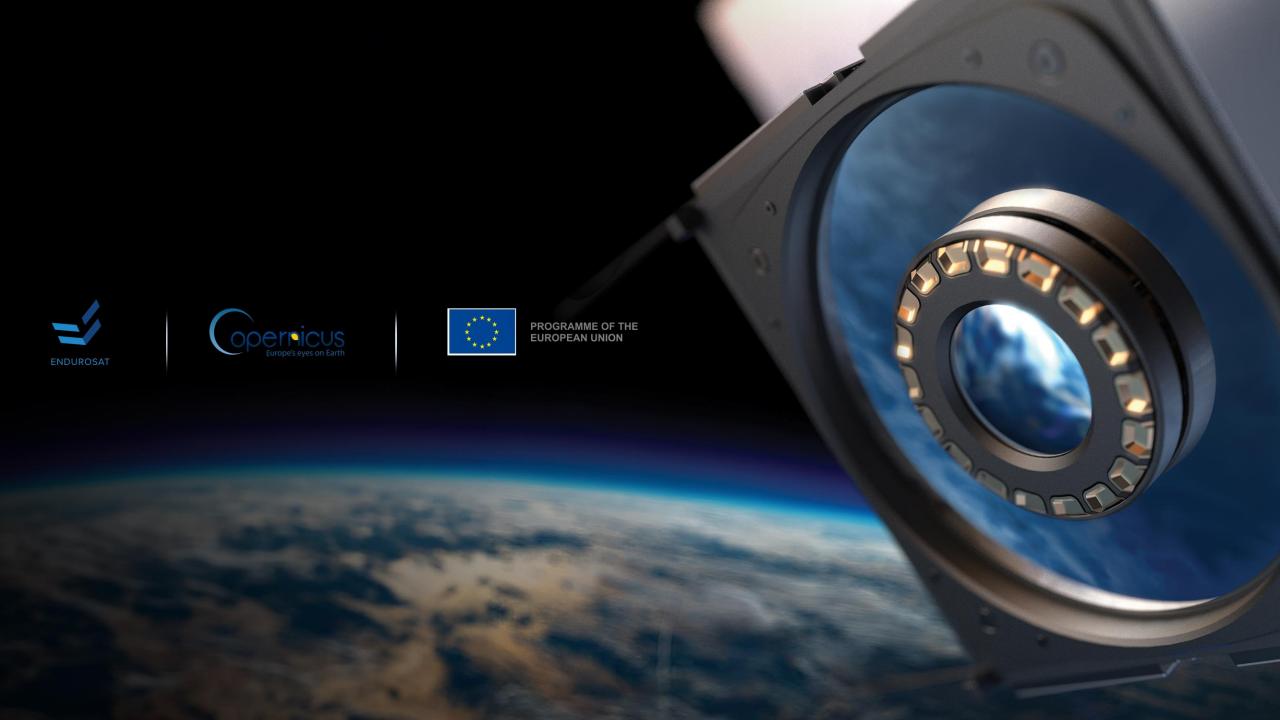






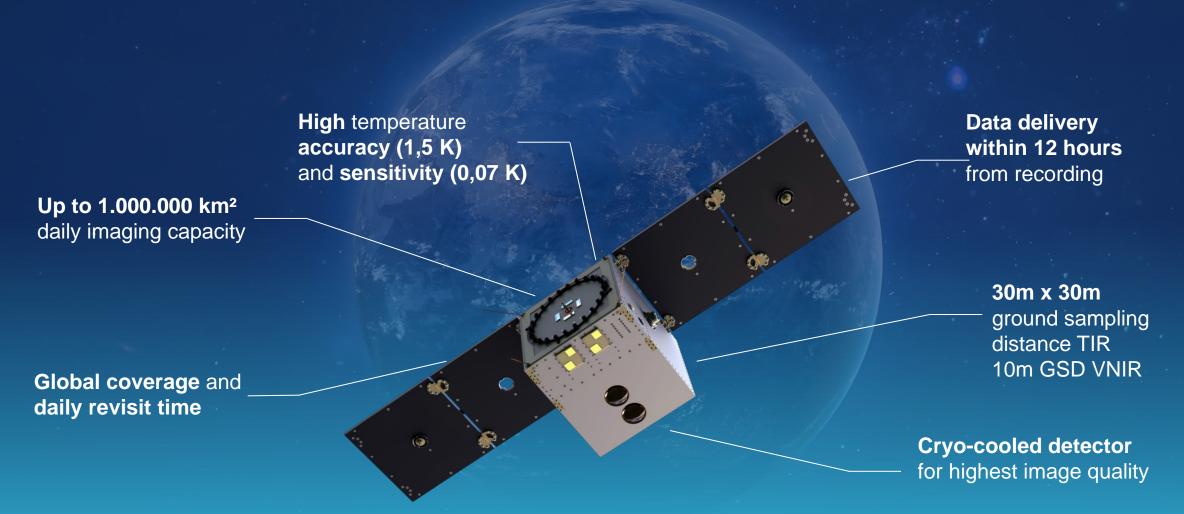






Space Segment

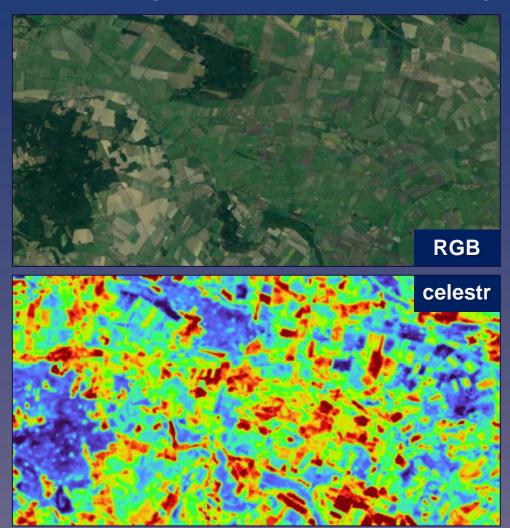




celestR



A satellite-agnostic data stream for high-revisit land surface temperature (LST)



What we are delivering today



Data from own and public space crafts delivered in spatially harmonized LST raster data, resampled to 30 m pixel size (accuracy better than 3 K in 2022 – ca 1,5 K in 2024)



Data captured from different sensors reaches a comparable processing state (partial removal of artifacts, pixel alignment, time correction, etc.)



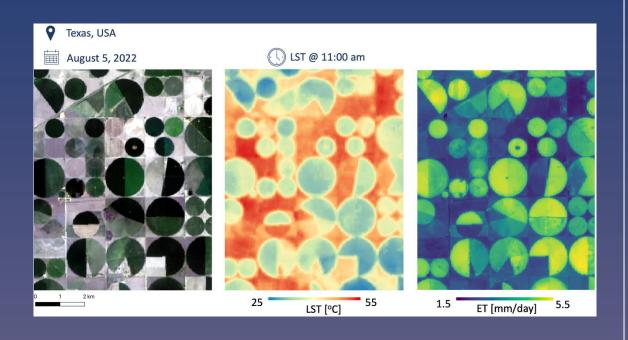
Sub-weely image frequency (dependent on cloud coverage over scene)



Dataset per scene comprises: one LST raster, one cloud mask and meta data

etR

From field-level precision to the entire global water cycle



What we are delivering today



A field-specific catalogue of proven algorithms based on proprietary data – for each field on the planet.



Model builds on celestr to offer high resolution and high temporal coverage



Utilized PT-JPL and TSEB models incorporate vegetation biophysical parameters, meteorology, and radiation data



Our product delivers instantaneous and day estimations of ET in 50 m resolution raster layers

EXOLAUNCH

FLIGHT HERITAGE & TRACK RECORD:

323

21

50+

satellites launched missions (incl. all SpaceX Transporter missions)

global customers

ICONIC DEPLOYMENT TECHNOLOGIES & LAUNCH HARDWARE:

EXOpod

CarboNIX

Cubesat deployers 223 sats / 17 missions Microsat separation systems 65 sats / 13 missions

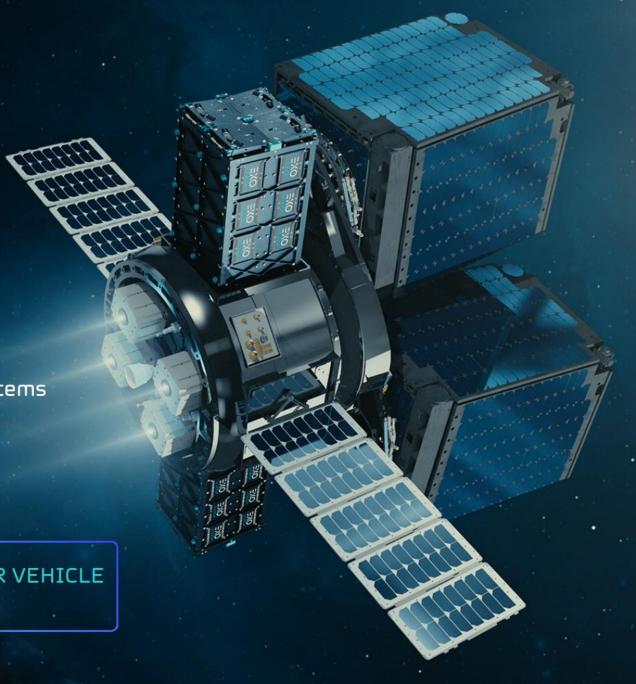
EXObox

EXOport

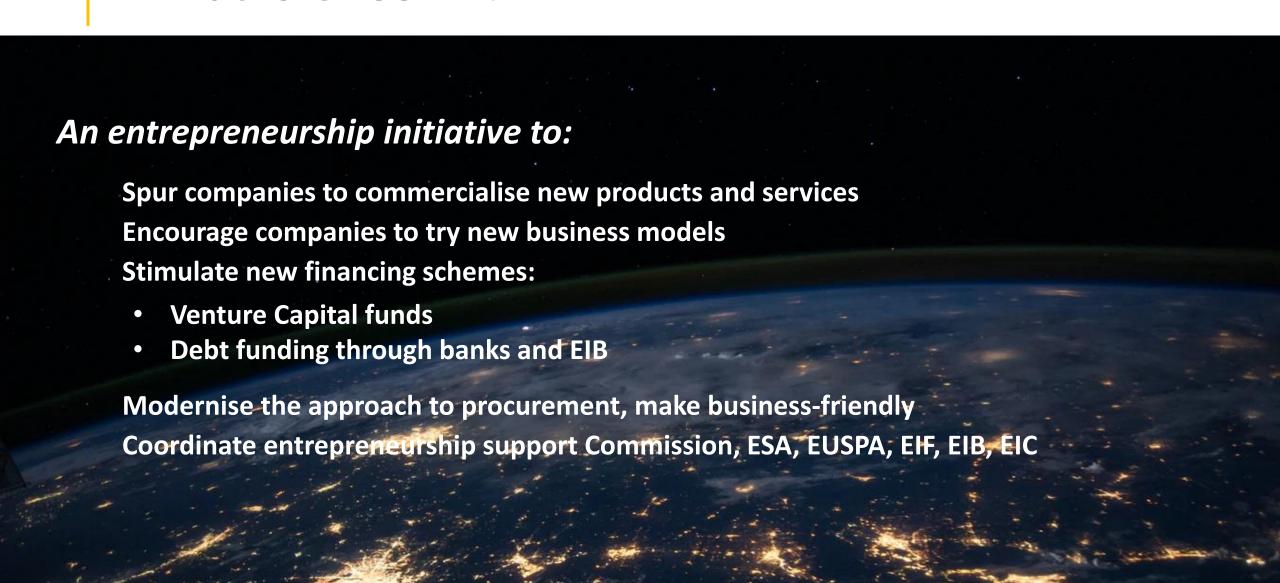
Sequencers

Multi-satellite adapters

WHAT'S NEXT? THE RELIANT ORBITAL TRANSFER VEHICLE ON TRACK FOR LAUNCH IN 2024



What is CASSINI?



CASSINI status in 2023

THE ROAD TO NEW SPACE

- Clear vision for European space businesses and markets
- New industry setup
- New entrants
- New private investment
- New markets
- New solutions

PROMOTION

CASSINI Hackathons & Mentoring

Started 2021

INNOVATION COMPETITIONS

CASSINI Prizes
CASSINI Challenges

Started 2022

Started 2022

INVESTMENT

CASSINI Seed and Growth Funding
Facility (InvestEU)

€1 billion capacity or more
6 VC funds signed + 1 co-investment

Started 2022

MATCHMAKING

CASSINI Matchmaking
6 physical events in 5 countries
100+ companies participating

Started Q1 2023

BUSINESS GROWTH

CASSINI Business Accelerator
First batch: 20 startups begin on 1 May

Started 2022

IOD/IOV

In-Orbit Demonstration and Validation

Started 2023

Initial Public Offering

Helios Space Stock Market Index

Started 2022

Capacity building

Networks and knowledge VC funds and other investors

Started 2022

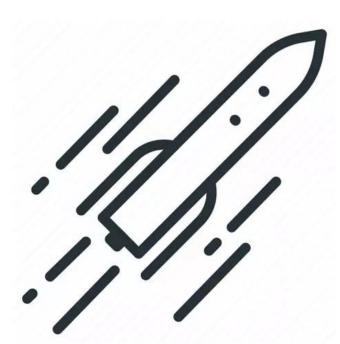
Dynamic Purchasing System

Anchor customer contracts

Long-term perspective



CASSINI Business Accelerator



CASSINI Business Accelerator will offer entrepreneurs qualified business development support to:

- Develop go-to-market plans and sales methods
- Accelerate activities leading to revenue growth
- Raise expansion capital
- Expand business networks
- Seed financing voucher to successful participating companies

40 startup companies to be selected in 2023

First batch of 20 startups begin working on 1 May 2023

Info and applications: https://www.cassini.eu/accelerator





CASSINI Matchmaking

CASSINI Matchmaking 2023

Enrol at any time to join on-site events:

- 1. Four Years From Now (MWC), Barcelona, 28 Feb 2023
- 2. Tech Show, Stockholm, 4 May 2023
- 3. Latitude 59, Tallinn, 25 May 2023
- 4. EUSPA Entrepreneurship Day, Prague, 28 June 2023
- 5. Matchmaking event in Germany (to be confirmed)
- 6. Web Summit, Nov 2023
- Q1-Q2: in addition 4 online matchmaking events

2022

- 1. International Astronautical Congress Paris,19 Sep
- 2. EU Space Week Prague, 5 Oct
- 3. Web Summit Lisbon, 3-4 Nov
- 4. New Space Forum Rome, 1 Dec



https://www.cassini.eu/matchmaking/





CASSINI Investment Facility

€1+ billion boost to space investments EIF open call since April 2022



Investment agreements signed to date:

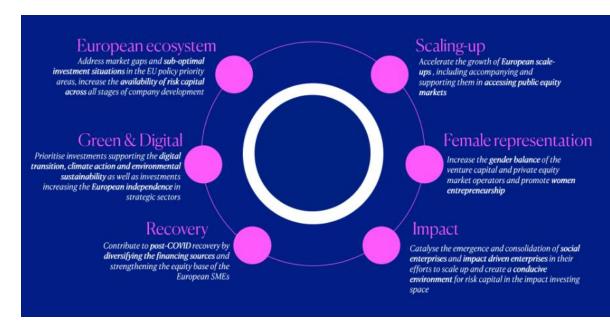
- Co-investment Isar Aerospace (in total €155M investment round)
- Alpine Space Ventures [May 2023]
- OTB Ventures
- Vsquared Ventures
- Primo Space
- Orbital Ventures/Promus Ventures
- UnternehmerTUM VC/UVC Partners

Fund managers can contact EIF:

https://www.eif.org/InvestEU/equity_products_calls/index.htm

Startups can check the list of VC funds:

https://ecleuropa.eu/defence-industry-space/cassini-access-finance_en



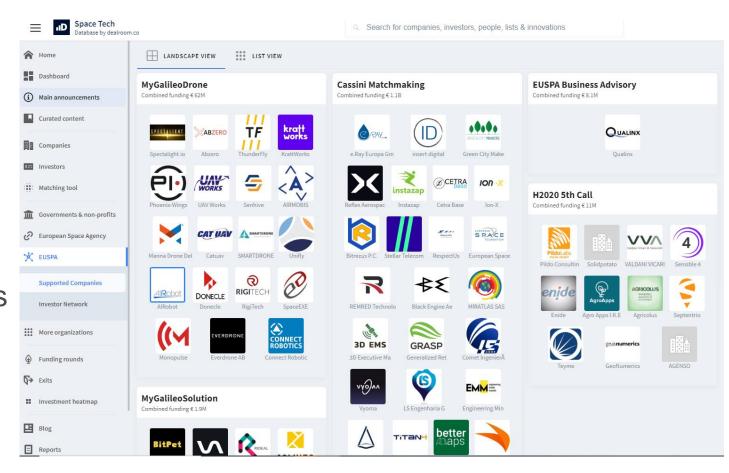




Funding raised by CASSINI startups

Dealroom.co registers venture capital funding rounds and other financing to European tech companies

The aggregated funding of the companies participating in CASSINI Matchmaking is €1.1+ billion







Debt funding for space companies

Access to debt funding is crucial for growth stage companies looking to expand production and sales



EIB Venture-debt operations offer non-dilutive funding with ticket sizes €10-40 million – with InvestEU guarantees

https://www.eib.org/en/products/equity/venture-debt.htm

EIB offers loans €10-75 million suitable for fastgrowing mid-caps – with InvestEU guarantees

Refer to "InvestEU loans for larger projects within R&D&I and Sustainable Infrastructure"

https://www.eib.org/en/products/loans/privatesector/index.htm



Private banks can offer business loans €1.0 - 7.5 million – with InvestEU guarantees

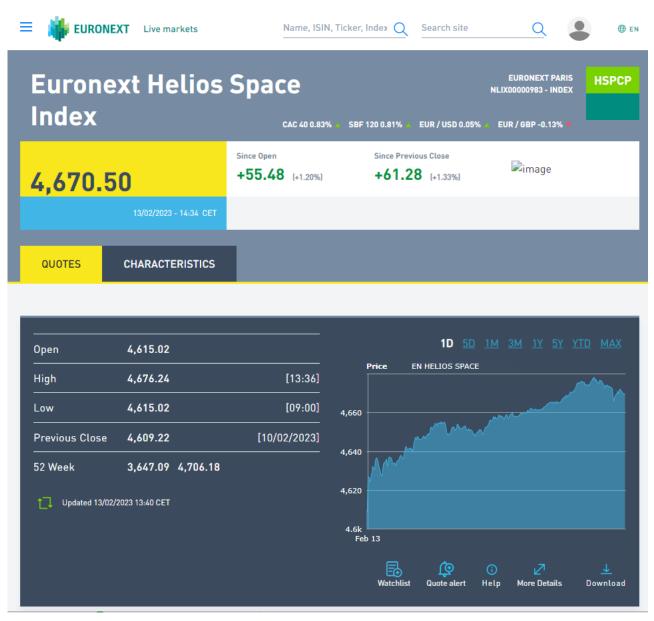
EIF's list of banks providing loans with an EU guarantee is published on their web site (new list available soon!):

https://www.eif.org/what_we_do/guarantees/single_eu_de bt_instrument/innovfin-guarantee-facility/



HELIOS Space Stock Index

- The HELIOS Space Stock Index will track the performance of European space companies
- A communication tool to bridge the gap between private investment capital and publicly traded companies on stock exchanges
- Euronext runs the index on its trading platform
- ESA, Promus Ventures and the Commission provide expertise and advice





CASSINI Hackathons

5th CASSINI Hackathon
Mar 2023
"Space for defence and security

10 locations in Europe 500+ participants

4th CASSINI Hackathon
Nov 2022
"Space for the financial world"

10 locations in Europe 400+ participants









CASSINI Prizes

CASSINI Maritime Prize

Competition for best digital application dealing with plastic marine pollution is published by EUSPA

Top 3 may win EUR 950 000 each

TED - https://bit.ly/3qTIT6T





CASSINI Challenge EUR 1 million prize pool

https://www.euspa.europa.eu/myeuspacecompetition



EUSPA Space Academy

Free online training to space entrepreneurs



https://www.euspa.europa.eu/spaceacademy/

This *free* online training is open to all individuals, start-ups, entrepreneurs and SMEs who want to learn the ins and outs of building a space application business

Your training starts with a series of modules that can be followed using your own device and completed when and where you want

Topics range from the technical details of the EU Space Programme and its various components to practical business skills such as:

- Customer support and sales
- Building a successful team
- Resource allocation
- Business plans and models
- Access to funding
- Intellectual Property, copyrights and data policy
- And much, much more





CASSINI links

CASSINI overview https://www.cassini.eu/cassini-initiative

CASSINI Business Accelerator https://www.cassini.eu/accelerator

CASSINI Matchmaking https://www.cassini.eu/matchmaking/

CASSINI Hackathons https://www.cassini.eu/hackathons/

VC funds with CASSINI backing

https://defence-industry-space.ec.europa.eu/cassini-space-entrepreneurship-initiative-access-finance_en

EIF contact point for VC funds https://www.eif.org/InvestEU/equity_products_calls/index.htm

HELIOS Space Stock Index https://live.euronext.com/en/product/indices/NLIX00000983-XPAR

EIC Accelerator funding https://eic.ec.europa.eu/eic-funding-opportunities/eic-accelerator_en

EUSPA support and funding https://www.euspa.europa.eu/

ESA Commercialisation Gateway https://commercialisation.esa.int

