

Commercialising Space for Economic Growth

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FINLOMBARDA- Webinar Space Economy

The Booming Global Use of Space



Climate

Monitoring terrestrial hazards from space, for understanding and coordinated actions



In-orbit servicing

Boosting sustainability in space, incl. life extension (refuelling, refurbishment), or de-orbit



Space connectivity

Connecting from everywhere, including communications and navigation

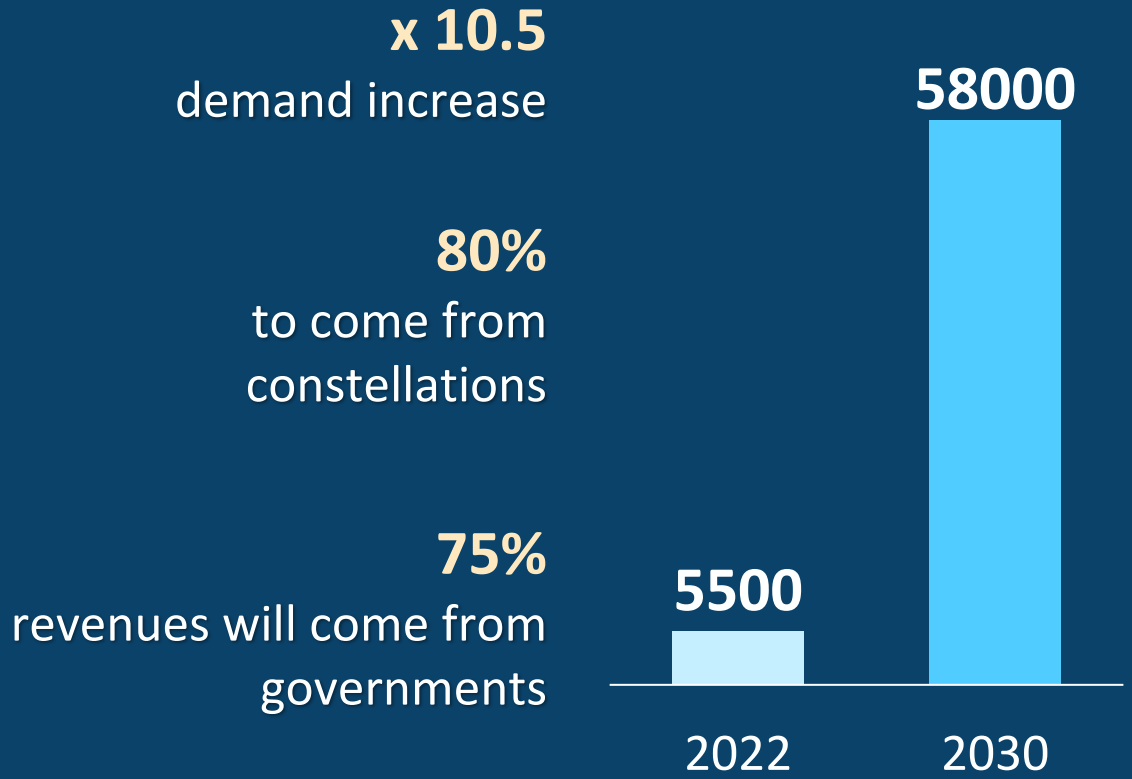


Exploration

Growing group of space powers with new/improved human exploration capabilities

➔ Booming demand for space transportation services

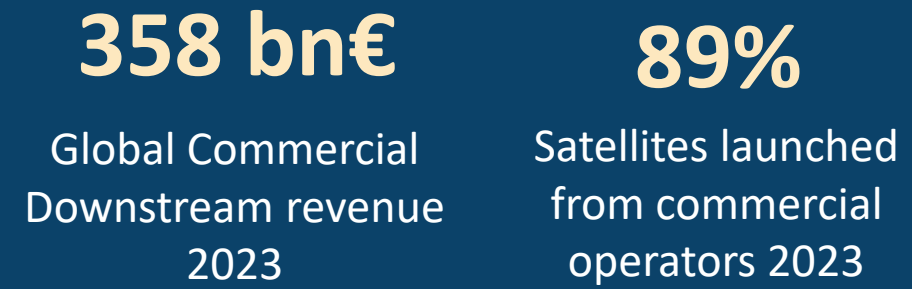
Average number of satellites in orbit per year

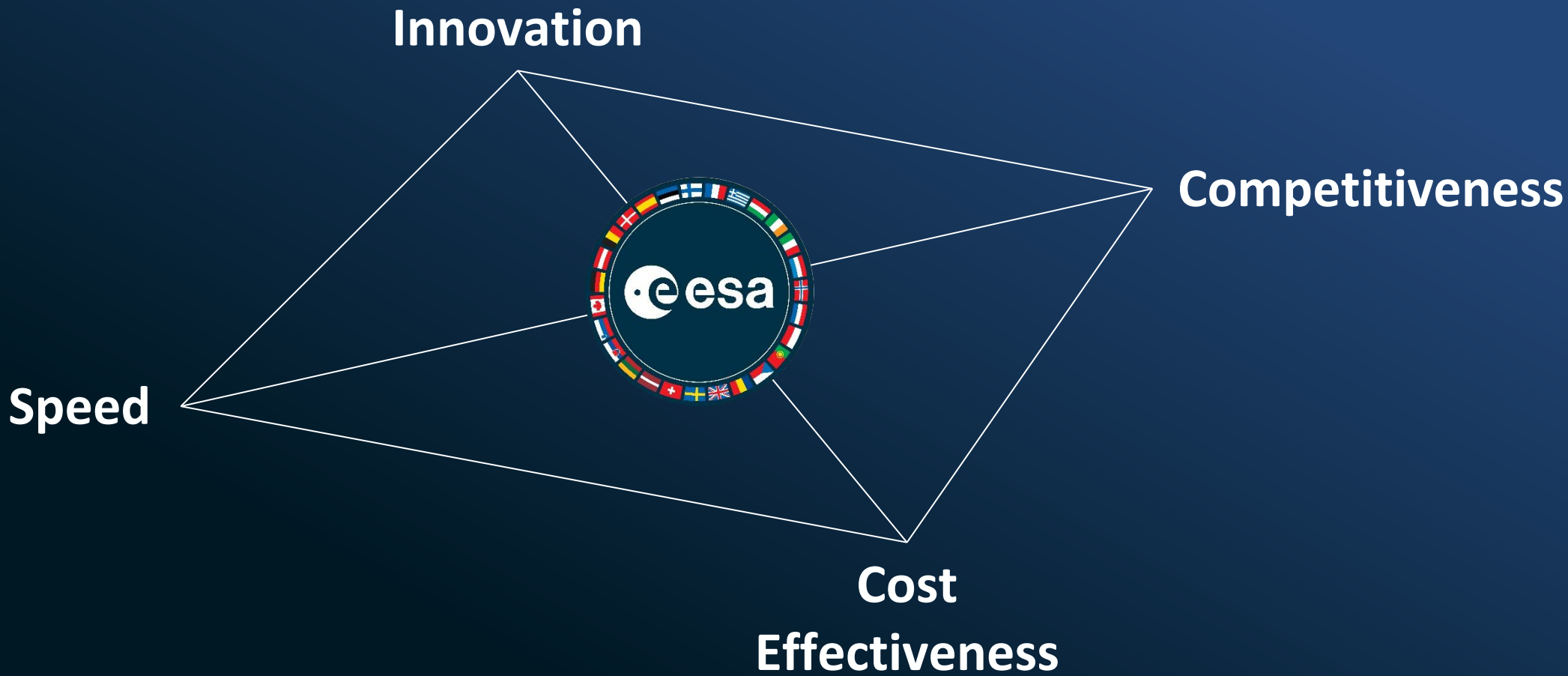


Space Investment



Commercial Space Economy





Competitiveness

Ensure the Competitiveness of
the European Industry

Commercialisation

Ensure a safe and thriving
environment for new companies and
applications in Europe, including in
non-space markets

ESA Tailors New Programmes For The Commercial World



Reducing time-to-contract

High level service requirements

Increase transparency and communication

1.3bn€ at CM22



LEO Cargo return service



FutureEO

SCOUT "low-cost" missions

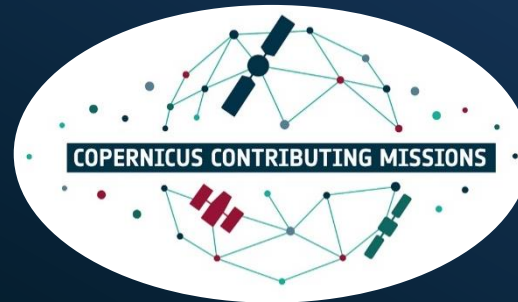


Supporting private endeavors by design



COPERNICUS CONTRIBUTING MISSIONS

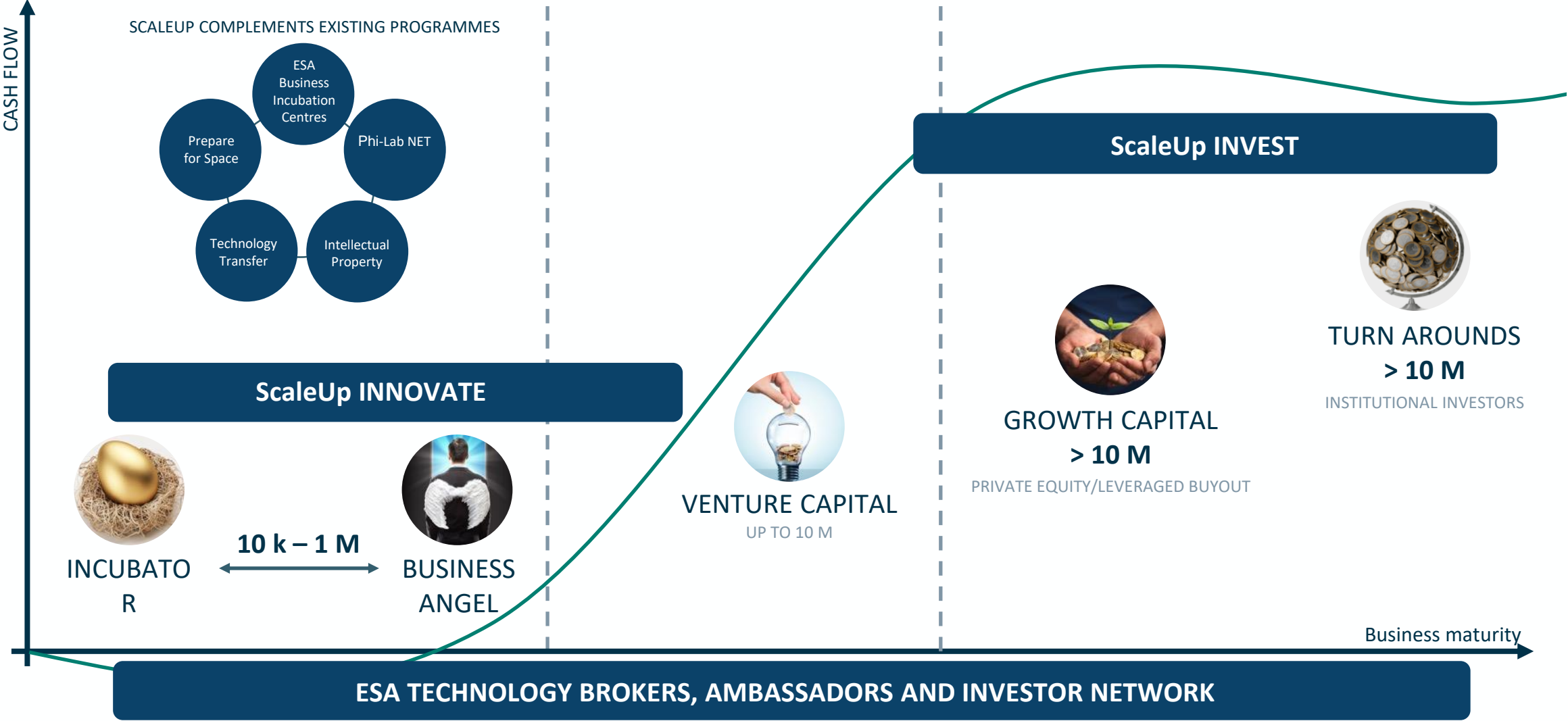
Buying data from EO startups





COMMERCIALISATION.ESA.INT
SPACE-ECONOMY.ESA.INT

ScaleUp: Commercialisation offer mapped to business life-cycle



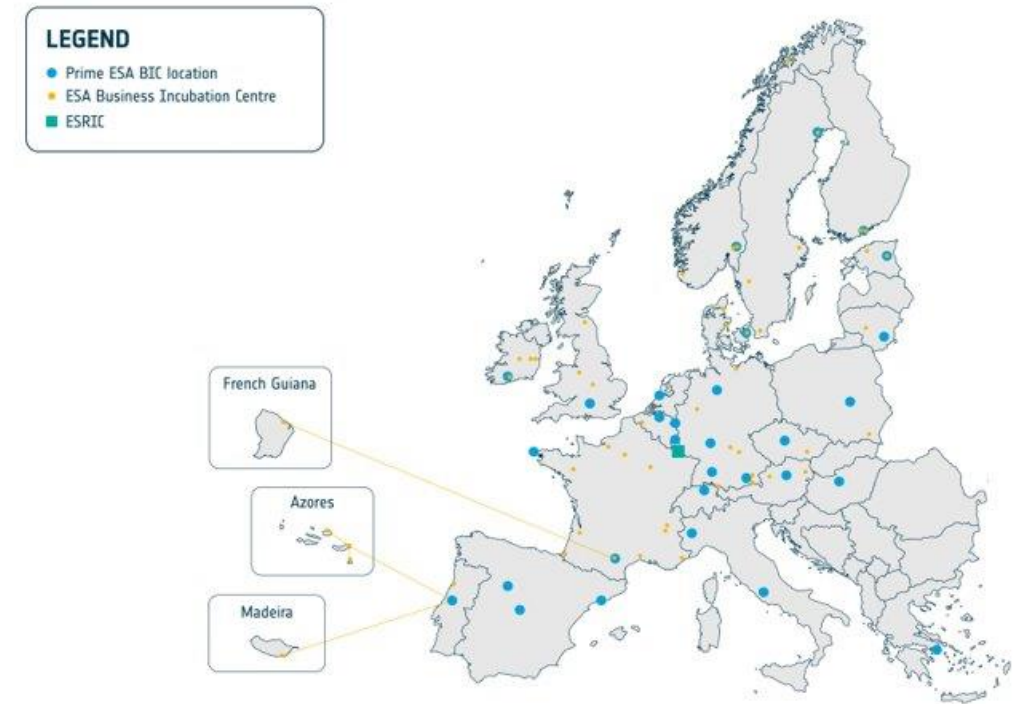
30 ESA BICs in 21 Participating States

- 200+ start-ups selected annually
- 1800+ start-ups selected in 20 years
- > 177.5 M€ of revenue
- > 395 M€ of investment raised

A Network of Phi-Labs

- including Corporates and Startups, Universities and Research Centers
- Bringing together **commercial and technical expertise**
- **Financial support** to research activities
- Bridging the gap between research and commercial world for **strategic market needs** towards concrete applications, products and solutions

ESA BUSINESS INCUBATION CENTRES MAP



Timeline: 11+ Phi-labs by the end of 2024, with more to come in 2025 and beyond.

Boost!	Space Transportation
NAVISP	Navigation, PNT
InCubed	Earth Observation
ARTES Core	Telecom
Competitiveness	
Cosmic Competitiveness	Space debris Operations Space Weather
BSGN for Exploration	Microgravity Human space flight Exploration
CASE	Access to microgravity
BASS	Integrated Applications



Proposals sent by companies



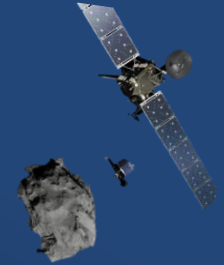
Zero-equity co-funding from



Guidance from ESA as a

Example of a Technology Transfer

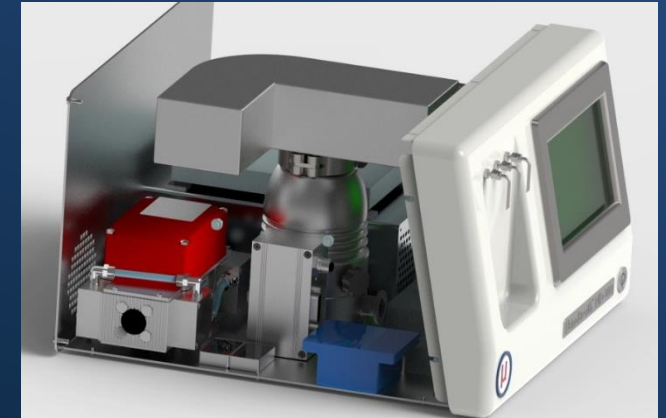
Rosetta mission : mass spectrometry instruments for Ptolemy



BAE systems: Long term air quality monitoring

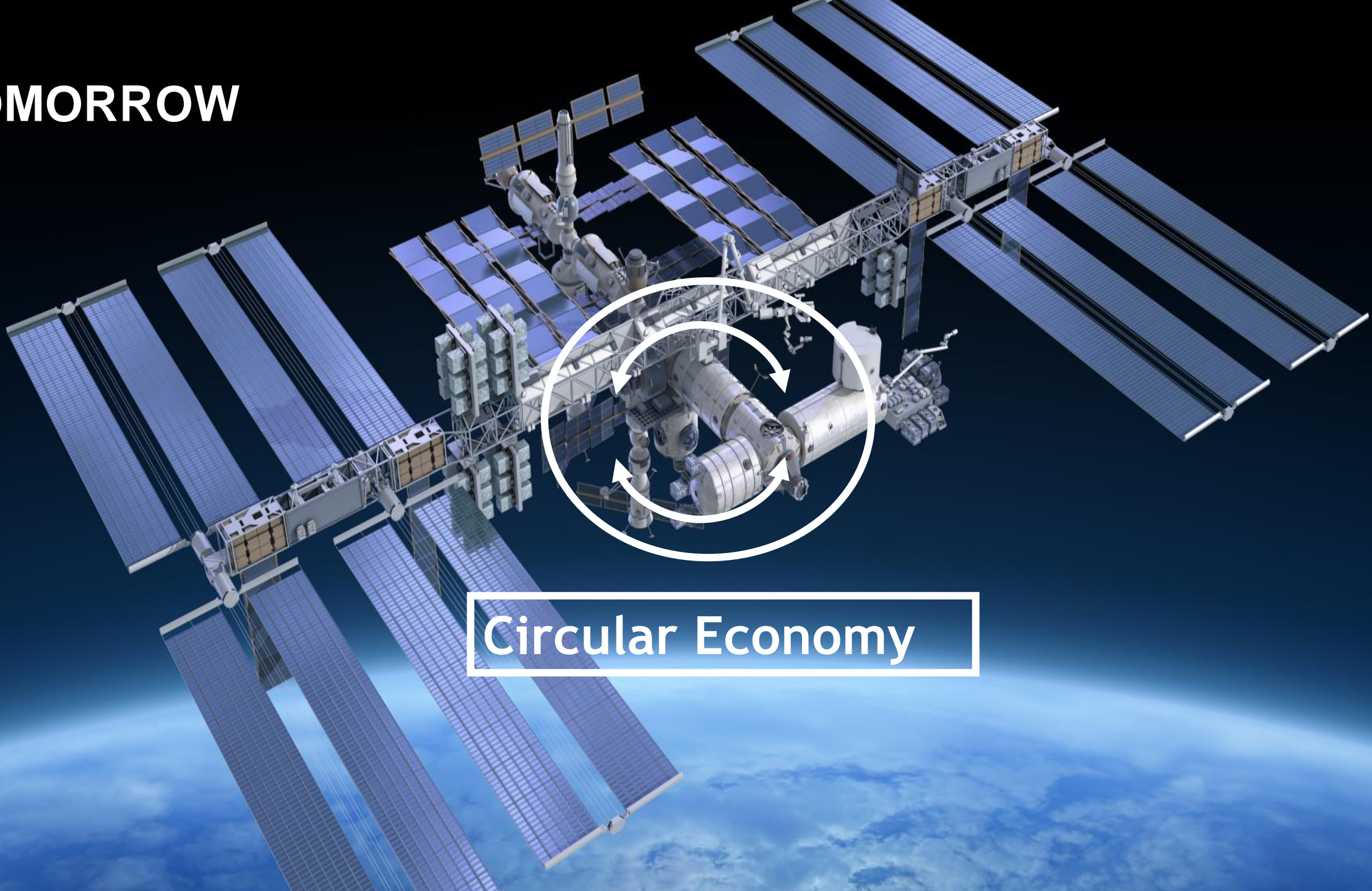


Givaudan (world leader in flavourings): range of sniffing technologies, removing microplastics from household products



MicroMedical: medical breath testing system to detect *Helicobacter pylori*

TOMORROW

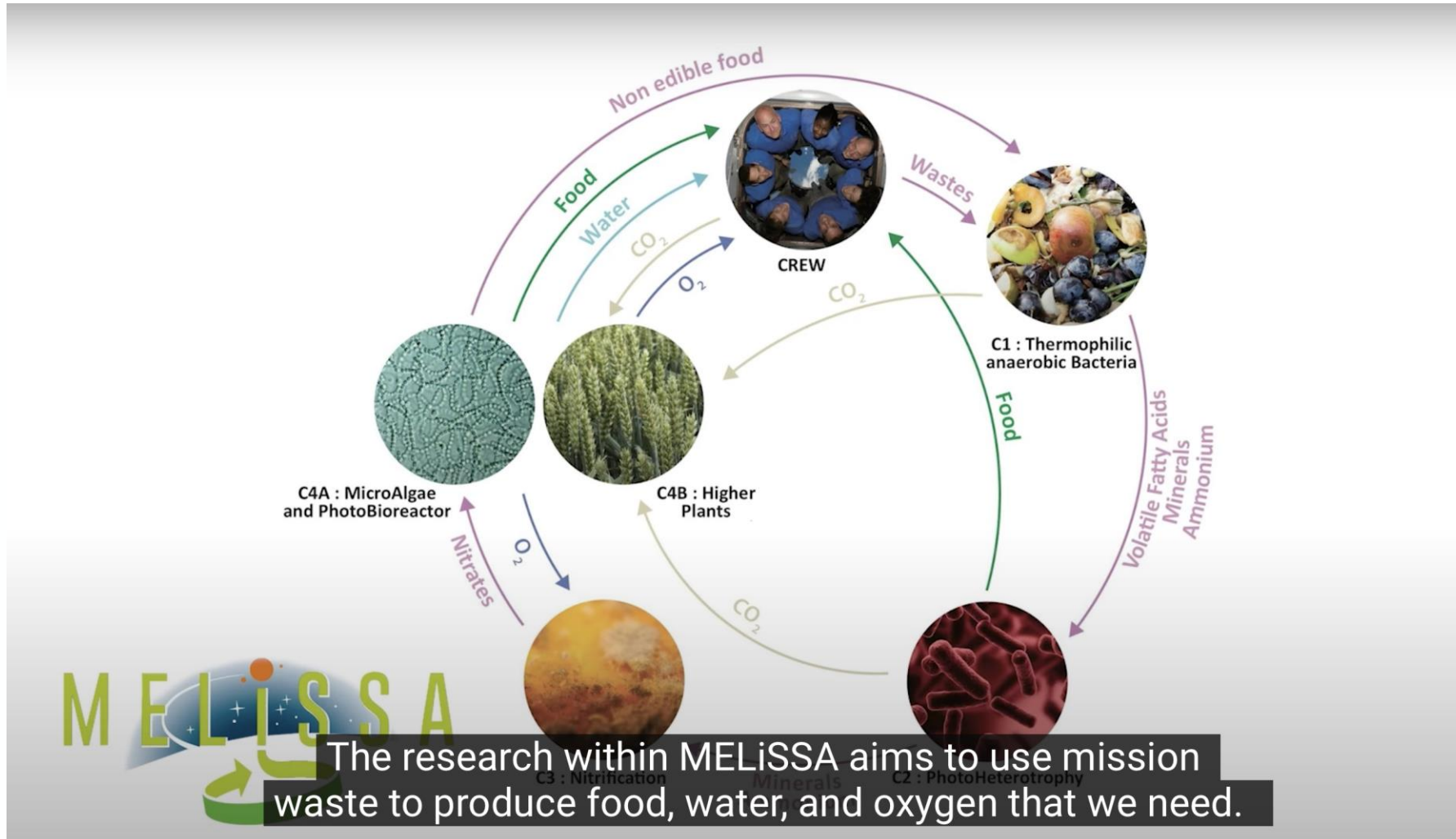


Circular Economy

On Mars, astronauts will need produce food, oxygen and water from their waste



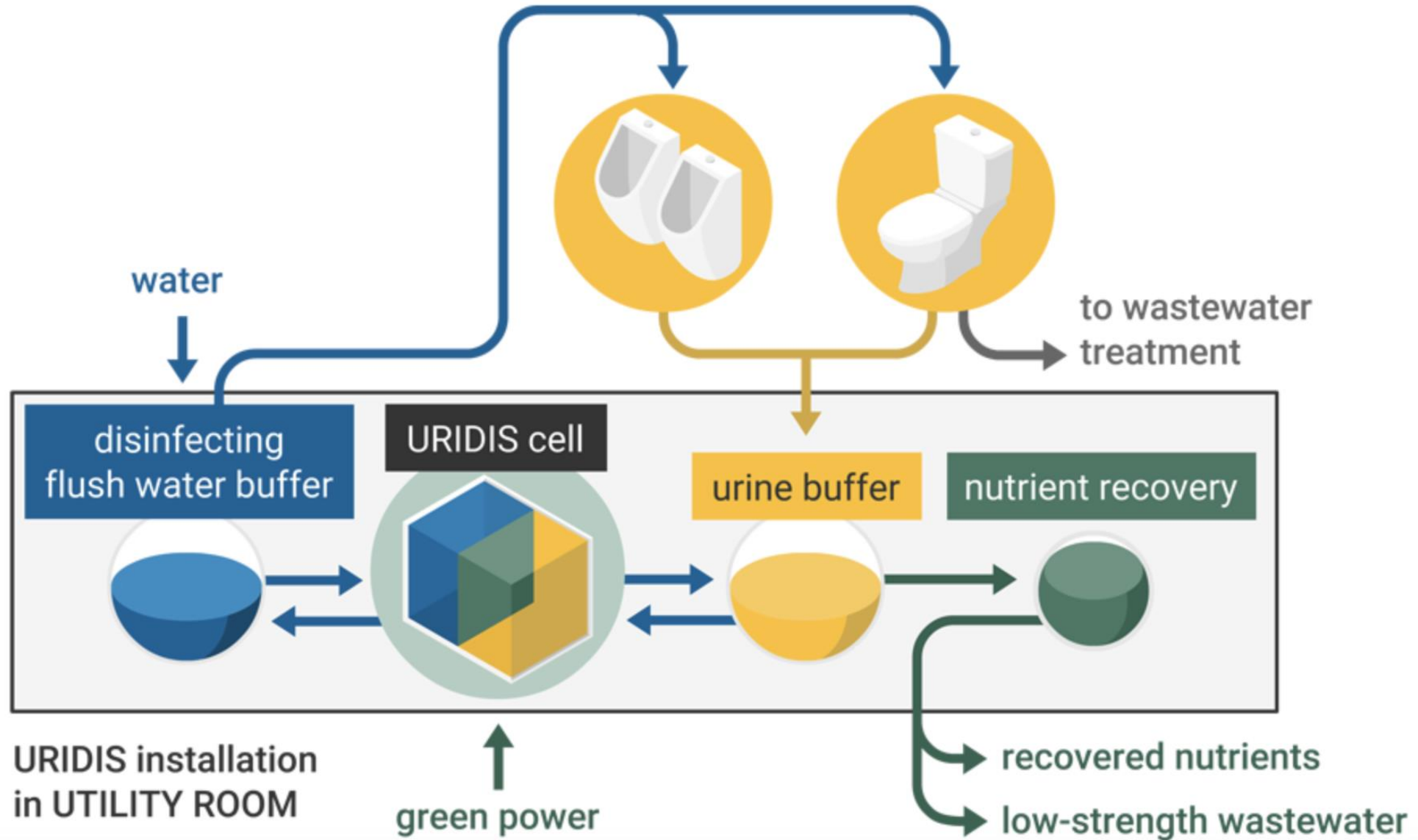
The Melissa project



FIRMUS- Grey water

The technology developed by our consortium is widely approved since more than 1,000 people in Concordia Station have used recycled grey water so far, while its hygienic quality has been constantly checked since 2005.





From urine to fertilizer

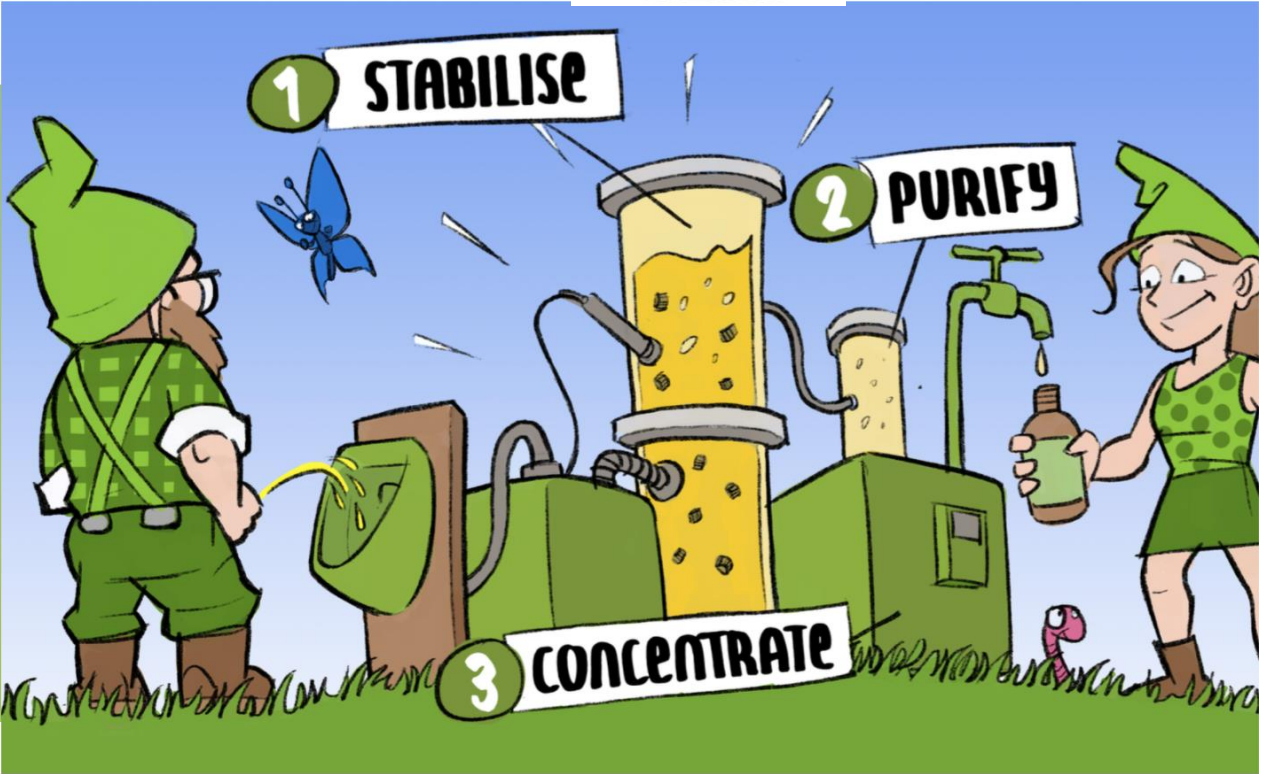


We offer ▾ Portfolio Vuna Shop ENG ▾



Urine recycling technology

Urine recycling, really? With the Vuna process, the world's first urine fertilizer is made from your urine. With official approval for all plants, from vegetables to houseplants.



Partnerships with **non-space stakeholders** enable large-scale adoption and impact

Green
Societal
Economic



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