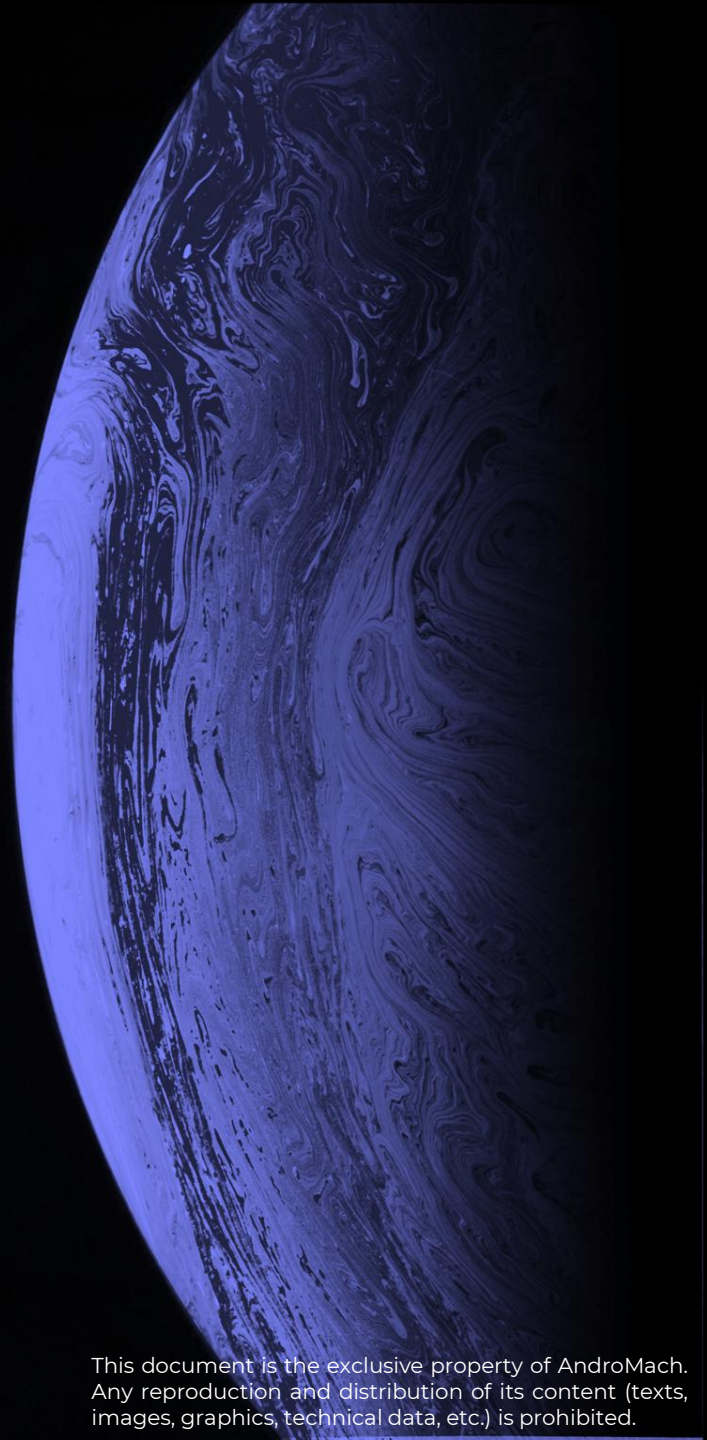
ENVOL

June 2025

AndroMach

We bring back Innovations from space

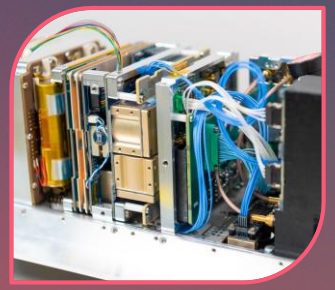


Hugo Verjus – hugo.verjus@andromach.space
https://www.andromach.space/

ENVOL - 2027 S2

Experiences

Fundamental physics, pharmaceutical, biological, optic, etc.



Tests

Testing and qualification of space technologies

Miscellaneous

Upper atmosphere studies, observation, hypersonic environment, education

Suborbital Spaceplane

The AndroMach suborbital aircraft, ENVOL, is an autonomous aircraft capable of reaching altitudes of 200 km. It takes off from a traditional runway using two turbojets. Once it has reached a certain altitude and speed, we ignite a rocket engine to propel it. Over a fifteen-minute flight, we generate 5 minutes of high-quality microgravity, which we can pass on to our customers.

Specifications

Payload mass : 10 – 30 kg

Microgravity : 5 - 3 min (depending on mass)

Apogee : 100 - 200 km (depending on mass)

Volume : 16U (200x200x400mm)

Max speed / Accelerations : Mach 5 / -4g ; +2,5g

Power : 24V / 3A

Data rate : 100kbit/s

Telemetry : Yes (rate to be defined)

Pressurisation : yes

Thermal control : yes

Exposure to space environment : yes

Drop capability : yes

Late access : 2h

ENVOL - 2027 S2

CONOPS