Space sustainability : a space logistics perspective

61st session of the Scientific and Technical Subcommittee
Vienna, June 2024.
The company’s purpose might resonate with COPUOS

OUR MISSION

Deliver mobility solutions for an efficient and sustainable space

- 160 collaborators
- 10 engines & 1 sat. in orbit
- 30+ Customers worldwide
- 74M€ raised
We see space activities through their mobility needs

**DEPLOYMENT**

01.

*Deliver the services needed at the soonest*

**OPERATION**

02.

*Maneuver to maximize lifespan & avoid collisions*

**END OF LIFE**

03.

*Deorbit to help solving the space debris issue*
Our step-by-step approach to ensure viable solutions

A comprehensive offer...

...foundation for infrastructure-based services

2022

spacestudio™

spacetower™

spaceware™

spacedrop™

2024

2027 – 2030+

INSPECTION SERVICES

FREIGHT DELIVERY SERVICES

REFUELING SERVICES

CLEANING SERVICES
Message 1 - We need mobility to tackle debris

There is a case for effective maneuverability

1. More and more satellites in operation
2. Increasing number of debris in orbit

Before remediation, we need to ensure we did our best regarding mitigation

At Exotrail, we believe that...

All satellites deserve efficient propulsion, this is why we miniaturized Hall effect thrusters for small satellites

The French Space Operation Act provides with good practices in line w/ LTS, with dispositions ensuring one does not fly a satellite without proper means to operate it
Message 2 - Complex services require more coordination

There is no certainty on which of these use-cases will find a viable market

At Exotrail, we believe that...

There is no economic viability without cooperation between nations
- cooperation is of utmost importance to ensure larger markets to providers

Cooperation shall be centered on the lower common denominator between complex IOS
- The international framework shall stick to principles, technical aspects will be market-driven

Cooperation is also the responsibility of private companies
- Exotrail at Paris Peace Forum called for a pledge to provide flight plans to relevant authorities