





SPACE ECONOMY: the new erg is here!

Global Challenges

- Climate Change
- Migration
- Mobility
- Communication
- Energy
- Shortage of Resources
- Demographic Development
- Conflicts and Catastrophes
- **™**Health

Shift of Paradigms

- Change of motivations
- Change of Actors
- Change of contents
- Change of Roles
- Change of Technologies



SPACE ECONOMY

- Commercialization
- Participation
- **Information**
- Innovation
- Inspiration
- Jobs & Growth
- Digitalization







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Short-term perspective/1 - Space Rider experiments & commercialization **ThalesAlenia** Laser Comm Science experiments Advanced commercial cubesats antennas end-to-end service Pre-Launch Phase

MISSION PROFILE:

- 1. Air Launch at approximatively 50,000ft
- Rocket boost for ~60 seconds. Max Speed ~Mach 3,5
- 3. 3-4 minutes of high quality microgravity, apogee > 50 miles
- 4. Feathered re-entry
- 5. Glide landing on home runway









Towards mid-term perspective – In orbit Servicing

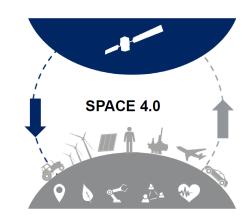
SpaceSTART* responds to the need to support new space activities in terrestrial orbits and beyond Orbital debris removar satellite servicina Mapping and mining of asteroids Asteroid Prospector transportation to Transp. from NEA from NEA to PO CHEST GO CHAT to Earth Space Station ...and beyond.... "Space START (Space Servicing Transportation Assembly Retrieval Tug)



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Conclusion

Change of direction towards Space 4.0 requires time to establish a common language and common vision: the next steps should go in this direction, taking into account that:



"The biggest risk is not taking any risk"



Today it's time to:

look beyond the ocean...
Think out of the box!

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