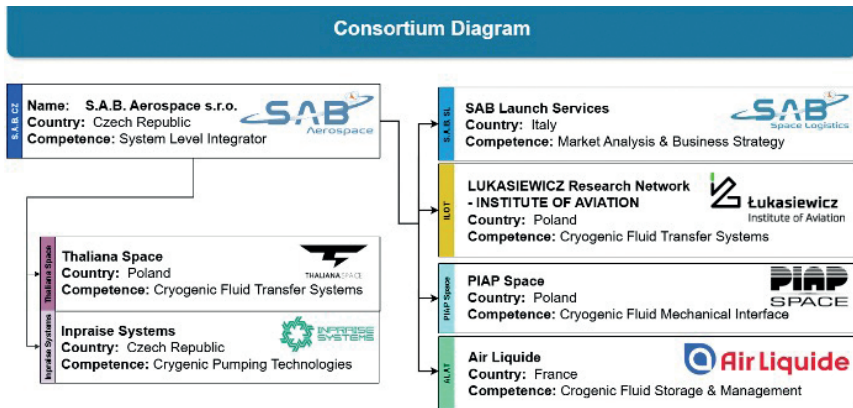


FUTURE SPACE TRANSPORTATION FLPP AUTUMN SESSION 2025



INSPOC-2

ABOUT THE CONSORTIUM



IN-SPACE PROOF-OF-CONCEPT (INSPOC) PROJECT OVERVIEW

Project name: InSPoC-2: In-orbit cryogenic propellant storage & refilling

Project phase: Preparation Phase [~Phase 0/A]

Objective: Identify, develop and demonstrate enabling technologies for in-orbit cryogenic propellant refilling and long-term storage

Applications

- Orbital Transport & Servicing: Enable more flexible cargo and transfer missions between spacecraft
- Exploration Support: Lay the groundwork for lunar or deep-space refilling infrastructure
- Commercial Opportunities: Create new markets for in-space logistics, orbital servicing, and fuel-as-a-service offerings

GET IN TOUCH

Contact: Anna Glozigová,
aglozigova@sabaerospace.cz

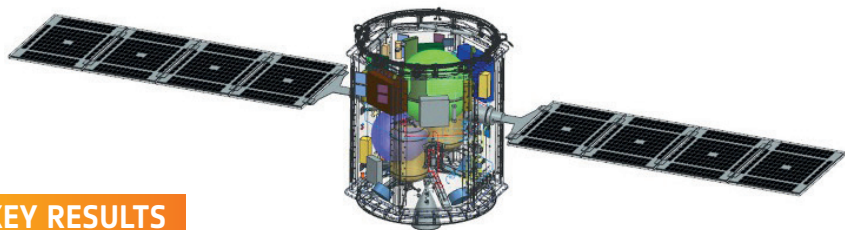
**Website
and Socials:**



ENABLING CAPABILITIES FOR IN-SPACE LOGISTICS

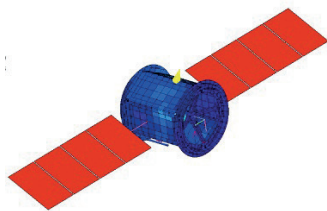
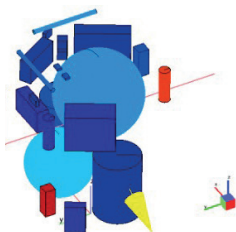
What we developed: A concept demonstrator validating the technologies that will enable the in-orbit transfer and storage of LOx

Benefit for the ecosystem: Demonstrates in-orbit liquid oxygen refilling and long-term storage, providing data to support future orbital transport and exploration missions



KEY RESULTS

- Characterisation of critical technologies requiring further development for practical implementation
- Development of an in-orbit test plan enveloping several operational scenarios of the target ecosystem
- Identification of a common approach to the standardisation of the fluidic interface across the consortia



NEXT STEPS AND MARKET READINESS

- **Roadmap:** Maturation of design concept → On ground qualification and verification
→ In-orbit demonstration
- **Opportunities:** Looking for engagement with potential customers to shape services around your mission needs
- **Target launch:** ~2030 for the demonstration mission