

FUTURE SPACE TRANSPORTATION FLPP AUTUMN SESSION 2025



INSPOC-3

GMV



Location: Spain

Founded: 1984

Employees: 3000+

Mission: Provide our clients with technologically advanced solutions, integrated systems, specialised products, and services for the whole life cycle, from consultancy and engineering to the development of SW and HW, the integration of turnkey systems, and operational backup.

TECHNOLOGY & INNOVATION

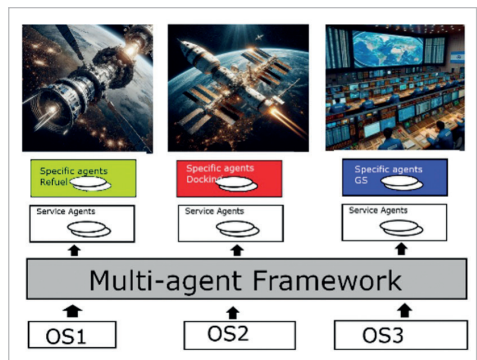
Project name: InSPoC-3 (led by GMV; subcontractors: SATE & Ateleris)

What we developed: a comprehensive analysis of the space transportation ecosystem, identifying its principal challenges and areas of potential disruption, with strategic insights for the development of future building blocks and demonstrators

Unique feature: The project has a holistic approach that covers multiple aspects, considering five main areas: a) horizontal technologies, b) onboard autonomy and configurability, c) on-board safety and longevity, d) shared intelligence, and e) fleet management.

KEY RESULTS

- Identified key SW and HW assets for future space logistics
- Outlined requirements for each asset; estimation of maturity & delta effort
- ConOps Model for space logistics and functional chains
- Developed a plan based on terrestrial and in-orbit demonstrators



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Contact: Jorge Ocón Alonso, jocon@gmv.com **Website and Socials:** www.gmv.com

NEXT STEPS & MARKET READINESS

- **Roadmap:** Refine the development plan, considering opportunistic IoDs and ESA InSPoC-3 future activities.
- **Opportunities:** GMV, together with its partners, has identified a set of existing mature assets to be included in future logistics solutions. These include both in-house developed as well as other parties' assets.
- **Target launch:** The study outlines a pathway for adapting existing assets for near-term terrestrial demonstrators within the 2025–2030 timeframe. Certain assets may be integrated as opportunistic in-orbit demonstrations (IoDs) within ongoing missions, while others are proposed for inclusion in future InSPoC missions.

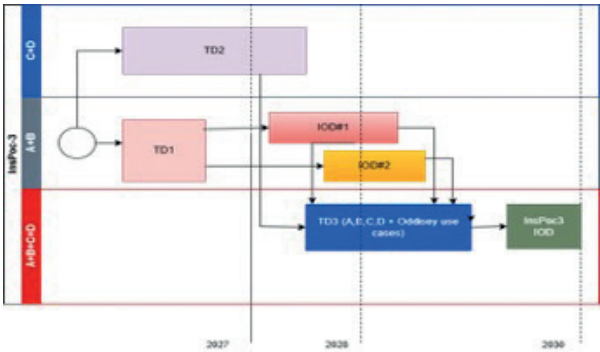


Figure 1. Proposed Demonstrators

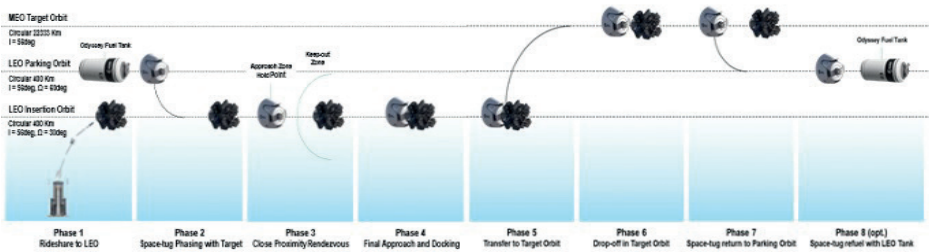


Figure 2. IoS Phases