

# Indra Deimos

Space End to End Solutions

5th February 2025



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# Indra Deimos has the ambition to be Tier-1 European player



## Ground Segment

- **Mission and Control centers:** Communications (NMS, Carriers monitoring), Navigation, Cybersecurity, Earth Observation, *SIGINT, SSA*
- **Sensors SST/SSA** (radars, telescopes)
- **Ground Stations:** Communications (SATCOM), Control (TTC), Mission (ULS,EO,SBAS) Sensor Stations,
- **User Terminals:** Communications, Navigation (Resilient PNT Receiver)
- **End User Applications** for Communications, Earth Observation and *Navigation: Analytics, Services Provider, Capacity Building*

## Space Segment

- **LEO Constellations**
  - Mission Analysis
  - *Development replenishment and disposal*
  - **Payloads:** Communications, Navigation, Surveillance, Earth Observation, *SIGINT*
  - **Small Platforms**
  - **Industrialization**
- **Design and fabrication of flight components and subsystems**

End to End Solutions

# Tecnologías avanzadas para Líneas de producción en serie de Cargas de pago y plataformas Espaciales



LINCE is an R+D project aimed at enabling the Spanish space sector to develop reliable and industrializable platforms and payloads that meet the requirements of New Space

Positioning of the national industry as a strategic leader in high-performance and reliable small satellite solutions, strengthening the independence and competitiveness of the sector in low orbit

- 16 Enterprises
- 16 Research centres
- 19M€ Total budget
- 12,74M€ Public investment
- 6,26M€ Private investment



LINCE

2024 -26

Industrialization of small satellite constellations (100-250 kg) in low orbit

Development of critical elements of a high-performance modular microsatellite platform (pointing, power, communications with Ground and between satellites) aimed at serial production

Research of critical technologies identified in the payload (VHF and ADS-B) of Space based CNS (STARTICAL), and of the critical elements for the communication link between satellites (ISL) and Satellite to Ground (Feeder Link)

Research on design methodology aimed at the industrialization of production (assembly, testing, qualification and acceptance), compatible with mass production and with a high cadence rate

Integrated modeling and simulation environment with digital twins of systems and subsystems, fostering multidisciplinary interaction in a concurrent engineering environment

 **INDRA**