



# 4S SYMPOSIUM



27 - 31 May 2024 | Palma de Mallorca | Spain

## DEIMOS

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## MAIN ACTIVITY

*With 23 years of history and over 500 successful projects in its portfolio, Deimos is a comprehensive provider of space systems and services across all mission segments and spanning all steps of a mission's lifecycle. Deimos is a pioneer of Europe's commercial space ecosystem, having launched some of Europe's first commercial EO satellites (Deimos 1 and Deimos 2) over 10 years ago. **Today, Deimos is a consolidated end-to-end smallsat mission provider.** With over 500 employees in 5 different European countries, we have a consolidated offering for the smallsat market, from onboard AI and subsystems to full platforms of all sizes.*

## PRODUCTS AND SERVICES OFFERED

Deimos offers a multitude of services and products for both space and non-space applications. Here we list those relevant to the 4S Symposium: our flight segment products. Here, Deimos offers the following products and services:

- **4EO family of platforms:** Deimos integrates a family of smallsat platforms ranging from 3U to 250 kg with TRLs between 6 and 9. Our platforms focus on reliability and adaptability, providing high configurability of our baseline designs to support all kinds of missions (EO, satcom, navigation, exploration...), as well as customizable quality classes to optimize your missions cost-risk profile. All our satellites can be equipped with our Insight4EO onboard intelligence software, which maximizes the efficiency of Earth Observation missions.
- **READY European ADCS:** READY is a high-performance, off-the-shelf, 100% European ADCS solution for all satellites below 400 kg. Our ADCS family leverages a common software base, based on Deimos' long GNC heritage, and provides the highest performance in the market for complete ADCS solutions. The system carries its own onboard computer, allowing all ADCS capabilities to be managed via PUS services by the platform's computer. This enables a high degree of configurability, and READY is already being adapted for missions ranging from Earth Observation to satellite servicing. READY will be TRL 9 in all its versions by 2026.
- **Insight4EO onboard intelligence software:** Insight4EO is a TRL9 onboard intelligence software for Earth Observation missions that maximizes the utilization of the satellites. It provides onboard image processing capabilities for optical (RGB, MS, HS) and SAR (TRL 6) missions, and uses AI to extract actionable insights for the satellite to act on the imagery.



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Images can be automatically geolocated, discarded, prioritized, or pruned (e.g., to generate custom alerts) to optimize data downloads. High TRL capabilities include cloud detection, sea-land detection, and vessel and weather detection. Additional capabilities under development will include L2 image processing, HW pre-integration, direct-to-user delivery of EO products, and satellite self-retasking.

- **Puertollano Antenna Park:** Deimos operates the only commercial antenna park in Southwestern Europe. Our PL01 antenna (10.2m, S/X-band) provides services to satellites in LEO and beyond. We also host antennas from 3<sup>rd</sup> parties. The Puertollano Antenna Park is also part of some of the world's largest ground station networks.
- **GNC Forge:** Deimos' GNC Forge is a comprehensive set of software tools to support the development of GNC algorithms for space missions. The toolset includes all required components for the simulation environment, including a flight-qualified set of sensors and actuators. We help customers develop their GNC from scratch and provide support for the continuous improvement of their systems.
- **Other flight segment services:** Deimos provides services all across a spacecraft's lifecycle. We have supported missions in mission engineering, flight dynamics, navigation, flight software, systems engineering, and our growing expertise in AI and systems integration. We have a unique expertise in GNC for launchers, interplanetary mission engineering, and atmospheric flight. Whatever your mission is, we can help!

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