



EUROPEAN ROBOTIC ORBITAL SUPPORT SERVICES – SERVICING COMPONENT



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Date : 01/07/2026

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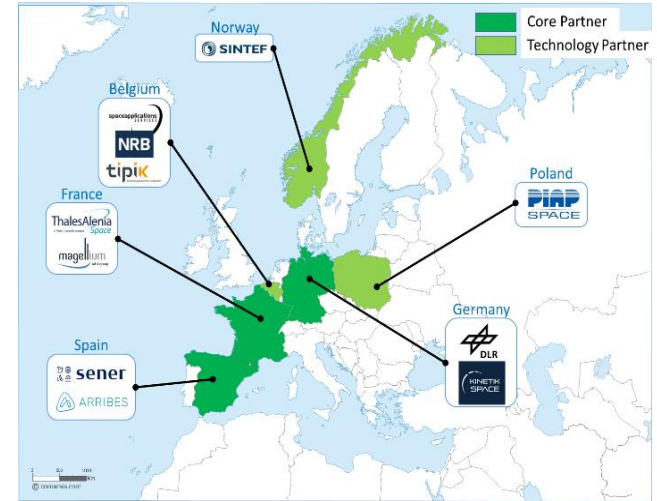
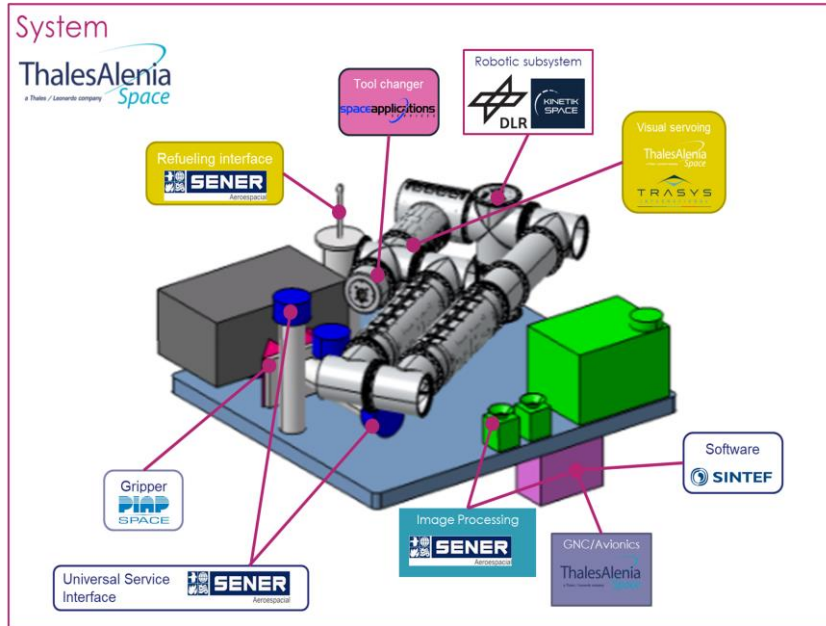
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European Robotic Orbital Support Services Servicing Component

A EUROPEAN CONSORTIUM

/// Inherited from past phases



Towards technologies maturity finalisation and Critical Design Review

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HERITAGE

/// From EU-funded projects **since 2016**, starting with **R&D on rendezvous and robotic technologies** up to an **orbital demonstration** and a **pre-operational mission** in LEO:



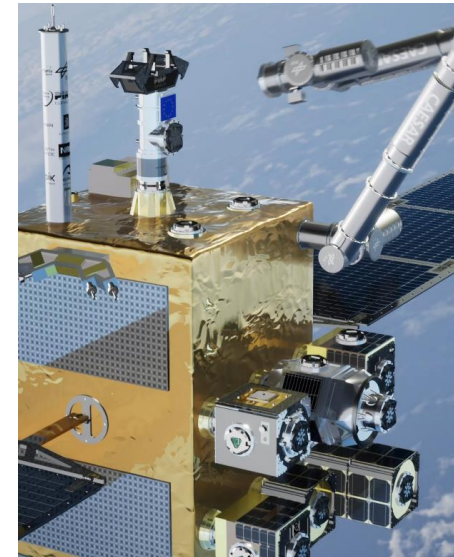
/// A European consortium led by TAS-F

! To develop technologies towards in-orbit demonstration...

- Rendez-vous, capture, payload exchange and refueling
- In prepared and unprepared conditions, with a collaborative client

! ...and pre-operational mission towards services:

- Inspection
- Life extension
 - Refueling
 - AOCS takeover
 - Relocation (fuel saving)
- Upgrade
- Repair



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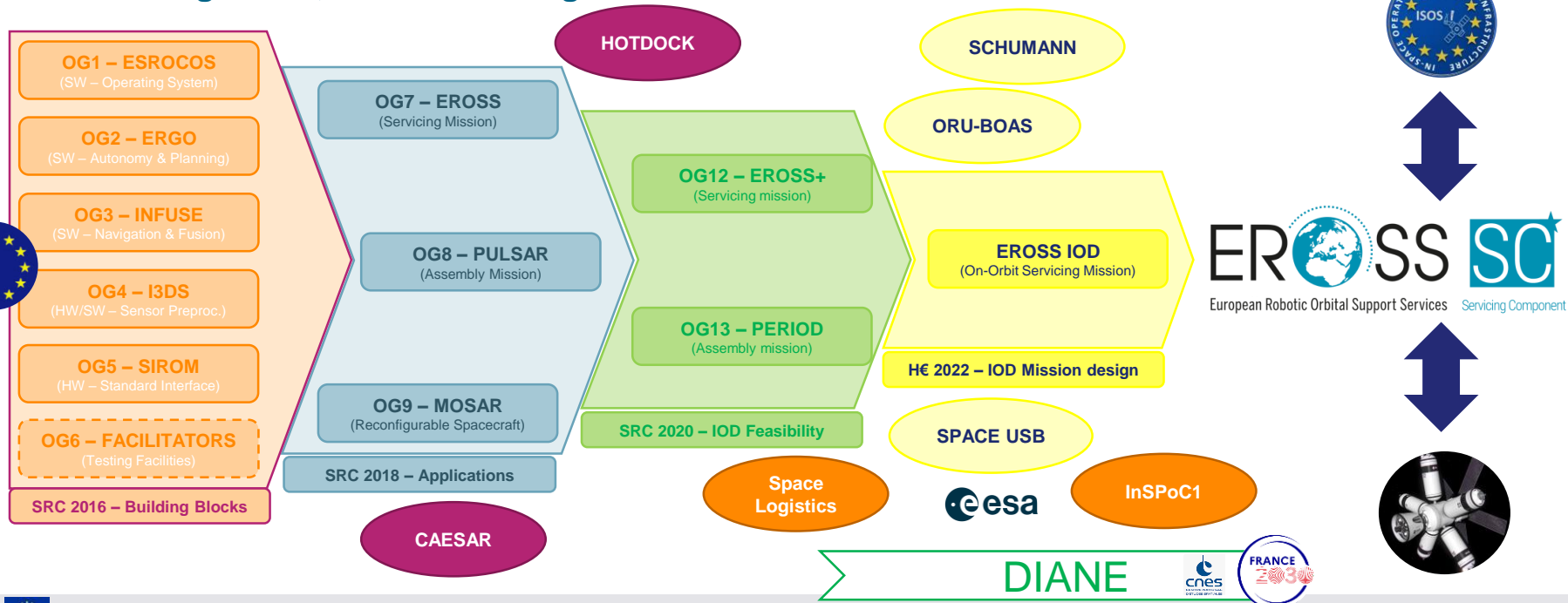
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ER OSS SC
European Robotic Orbital Support Services Servicing Component

COMPLEMENTARITIES WITH PREVIOUS AND ONGOING R&D

/// EROSS SC is building stepwise on the **heritage of the Strategic Research Cluster on Robotics** funded on Horizon 2020, and **aggregates** inputs from more and more **projects funded by EC, ESA, National Agencies, Internal funding...**



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OBJECTIVES OF EROSS SC

/// Technologies Maturity Finalisation

- / To justify TRL6 for all the critical technologies:
 - Robotic arm
 - Universal Servicing Interfaces (incl. refueling IF)
 - Gripper tool
 - Robotic and RendezVous vision
 - Guidance, Navigation and Control Software
 - On Board Autonomy management

/// System Maturity Consolidation

- / To validate a preliminary Satellite CDR (Baseline Critical Design Review)
- / To validate a Ground Segment SRR

/// EROSS / ISOS4I Compatibility Demonstration

- / To collaborate with ISOS CSA (Coordinated Support Action) to demonstrate ISOS Ecosystem I/F compatibility

/// Market-oriented Solution Demonstration

- / To demonstrate solution compatibility with Commercial and Institutional needs (incl. dual use)
- / To validate the Servicer Exploitation business model and commercial strategy



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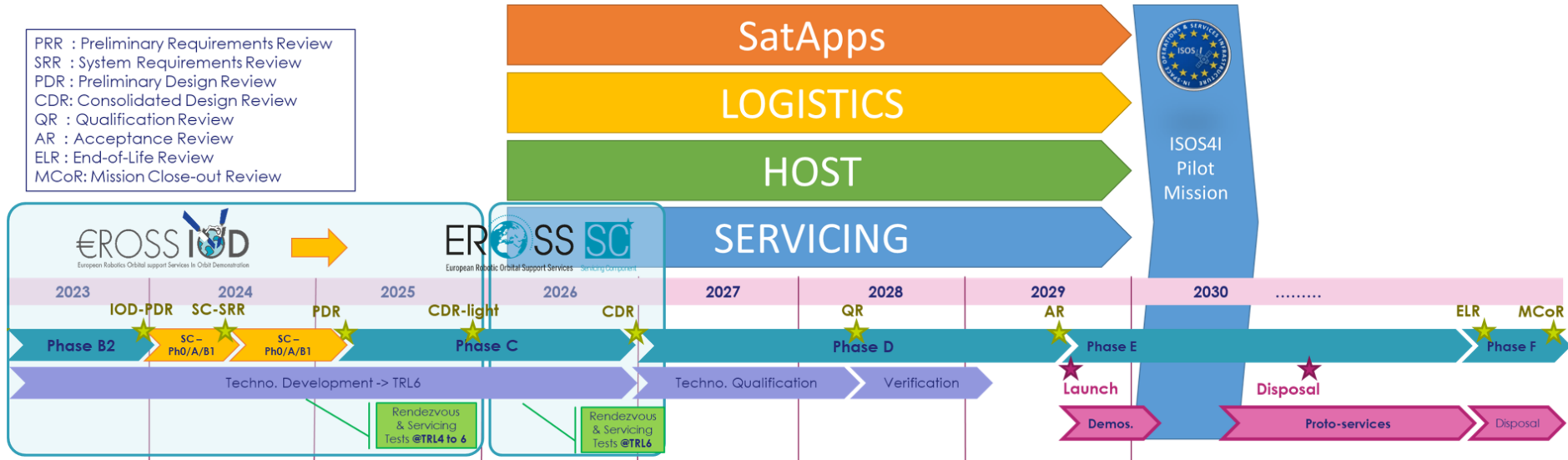


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MISSION TIMELINE

/// EROSS SC is the last step for technology maturation (→ TRL6 fully demonstrated in 2027)

/// After that technology becomes industrialisation for mission implementation



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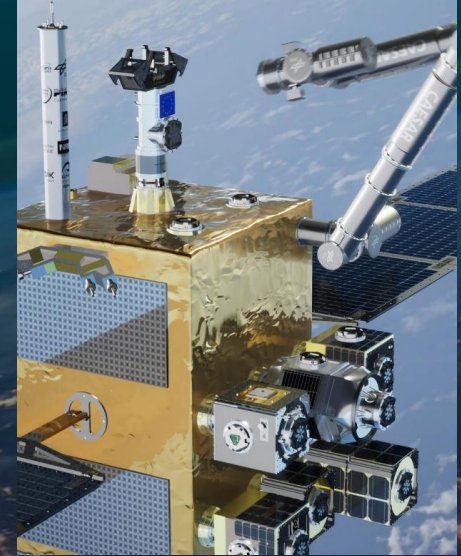
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THANK YOU ! ANY QUESTIONS ?



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