



UNIBAP
SPACE SOLUTIONS

From Space Data to Orbital Intelligence

ESA CommEO Forum

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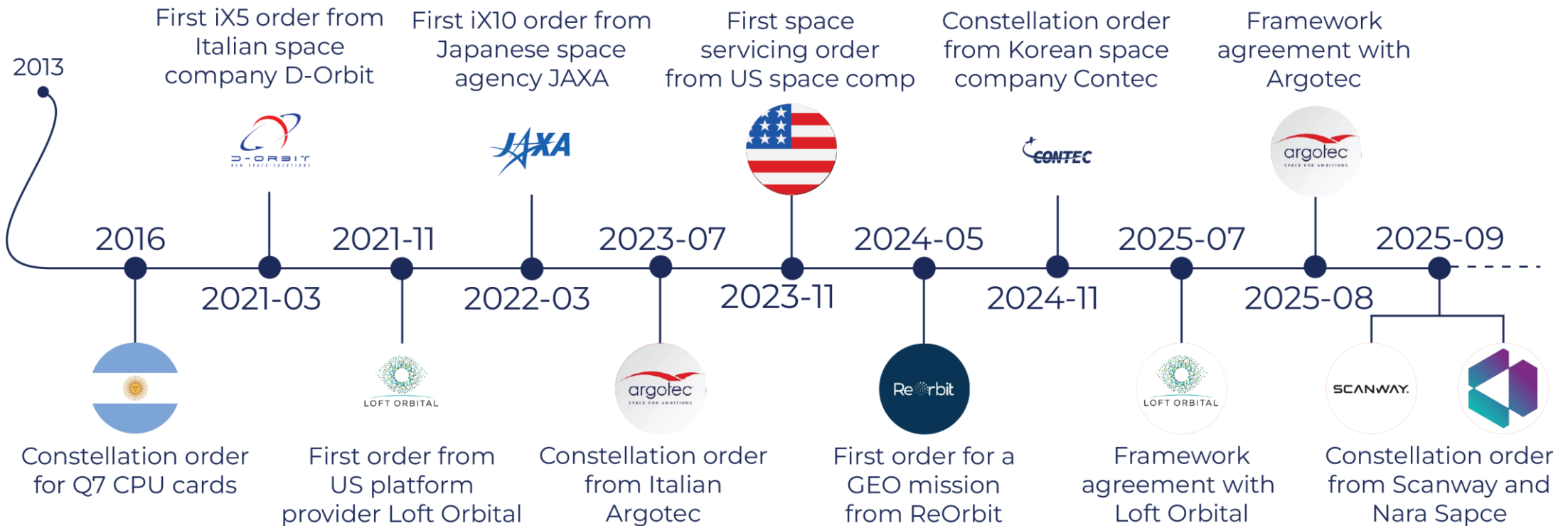


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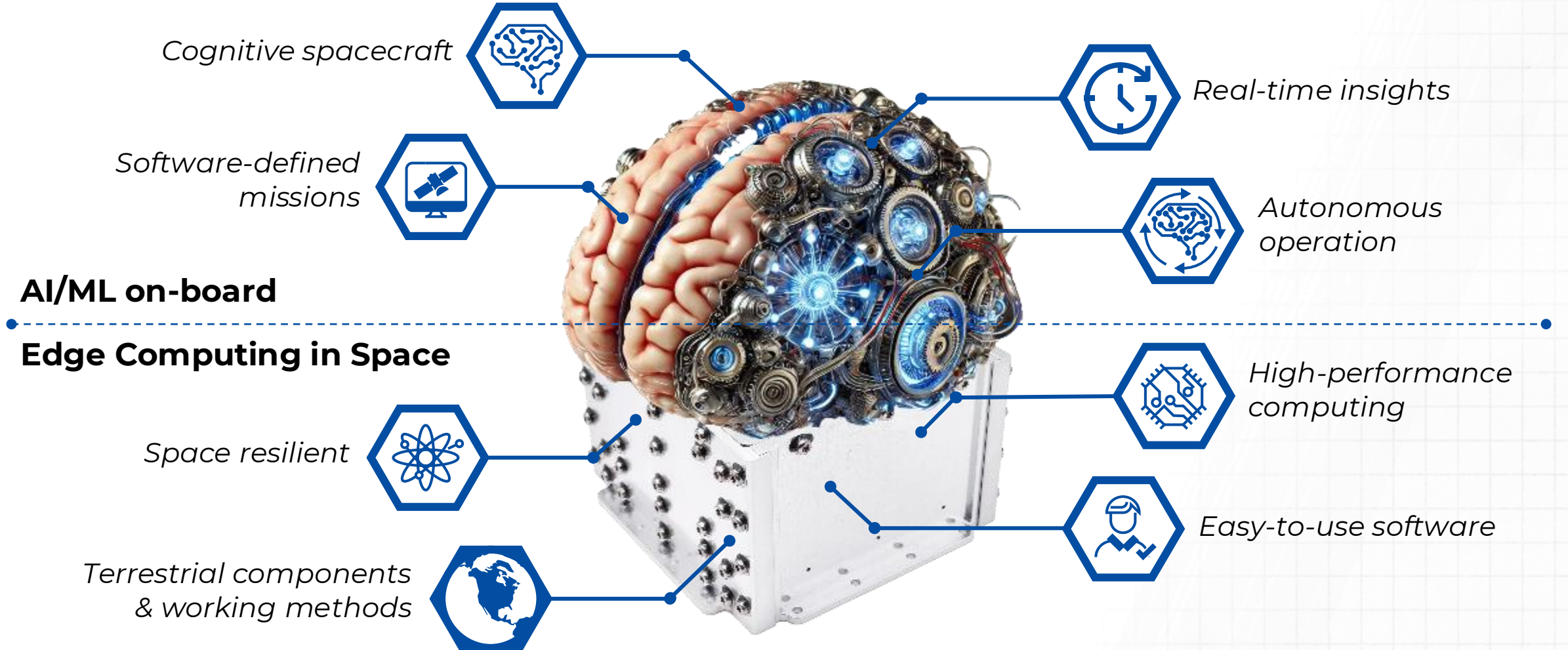
SPACE SOLUTIONS

- HW, SW and Services for **Edge Computing in Space**
 - Headquarters and production facility in Uppsala, Sweden
 - +50 staff in Sweden / New US subsidiary
 - Distributors in USA, Japan and Korea
 - Partnerships throughout the space sector (NASA, ESA, JAXA, Moog, OHB, and many more)
 - Listed on Nasdaq First North Growth Market

Unibap – Commercial projects



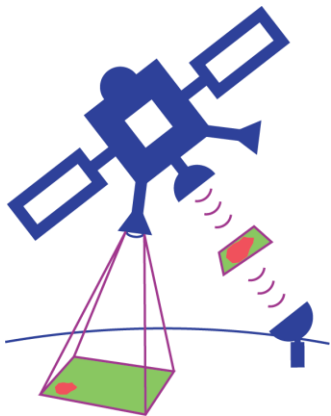
Unibap's Novel Solutions



Use cases

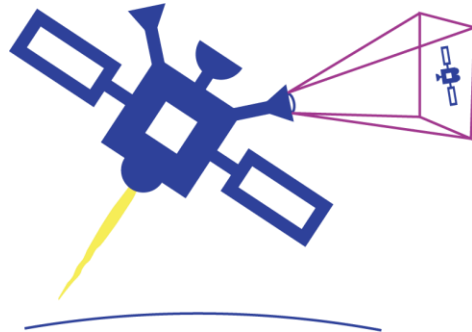
Edge Computing

- **Compressing** and condensing space data
- *Finding interesting objects in satellite images*



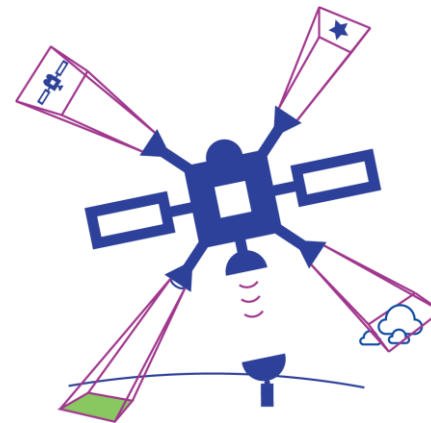
Autonomous Operation

- **Compiling** actionable information for autonomous decision making
- *Fire thruster to avoid to avoid collision with incoming debris*



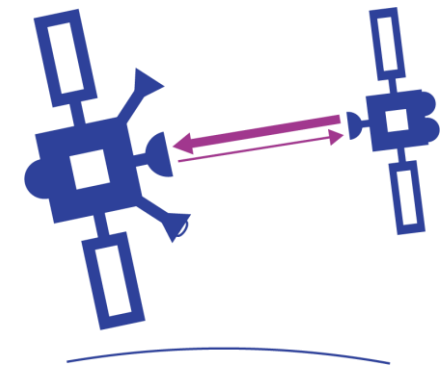
Payload Control

- **Combining** many sensors to a greater whole
- *Combining UV, visual and IR imaging for denser information*



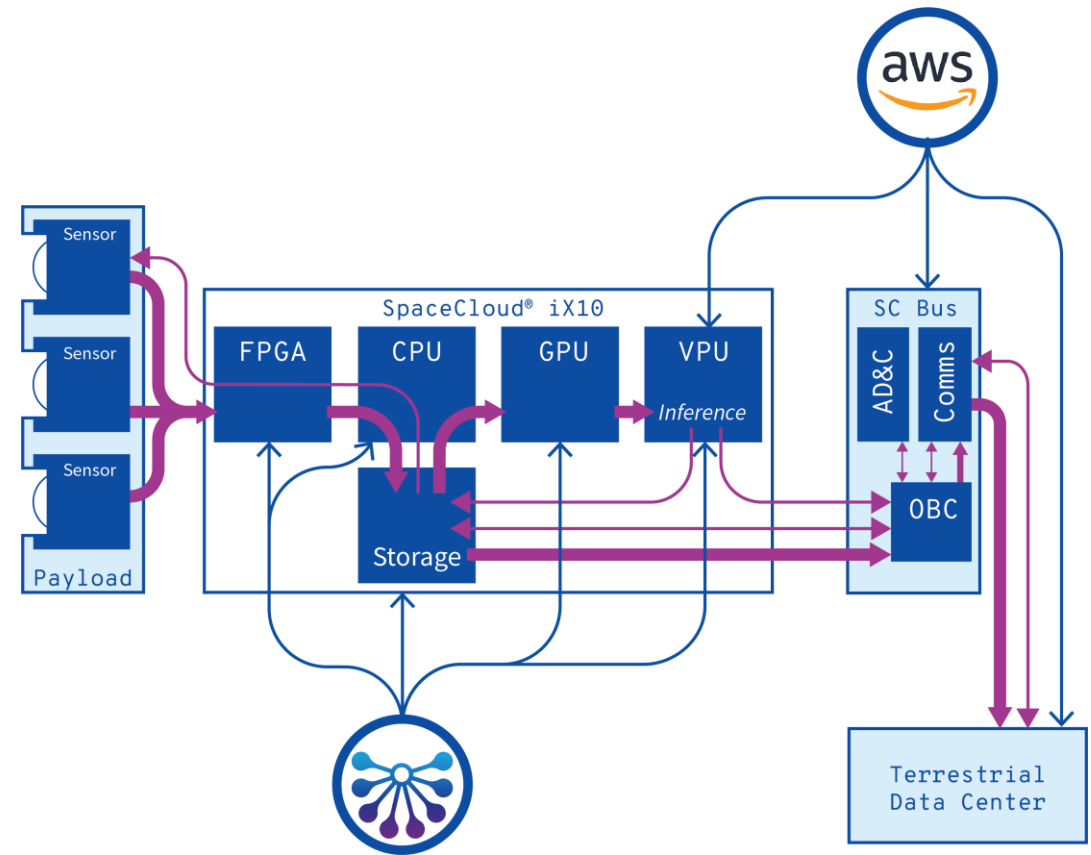
Cloud Computing

- **Sharing** computation workloads in space
- *Satellites with limited processing power gets help with computations in-orbit*



Unibap - AWS collaboration

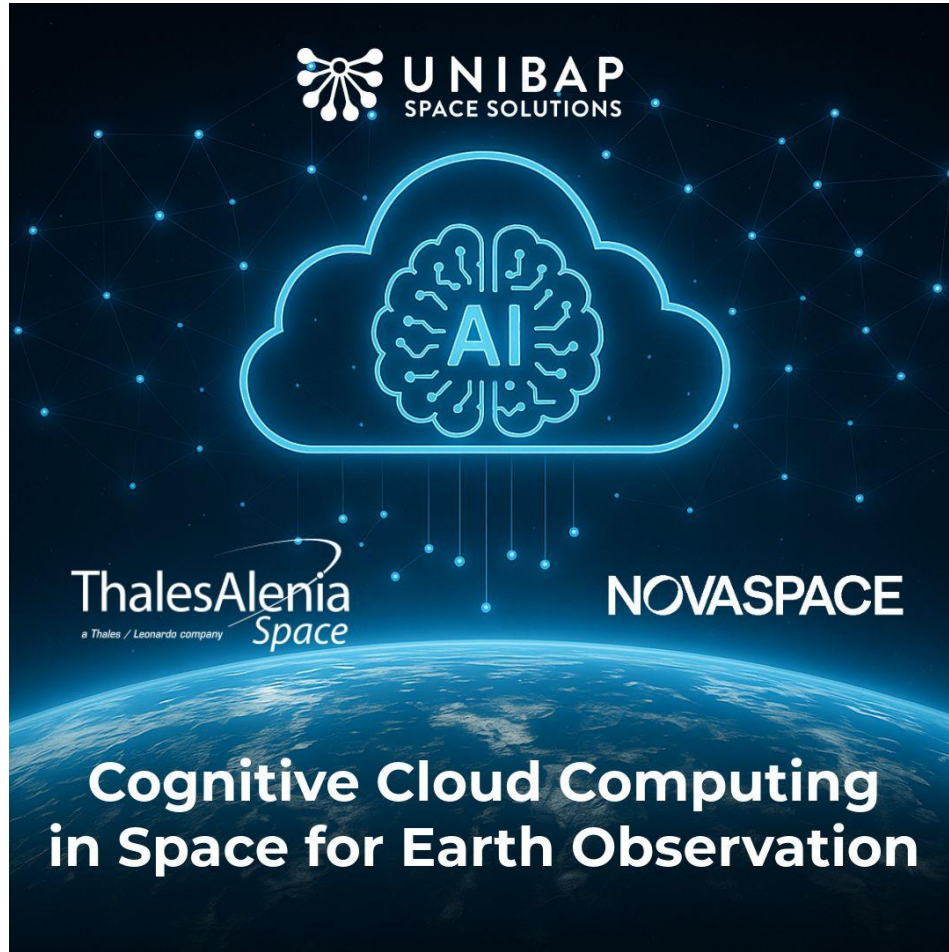
- **Mission:** *Validation of AWS compute and machine learning services on SpaceCloud OS*
- **Unibap's roll:** *SpaceCloud Compute with an iX5 and SCOS, and support on integrating AWS functionality on the platform*
- **Results:** *Successful In-Orbit Demonstration with D-Orbit in 2021 showing a perfect match:*
 - *SpaceCloud OS and Functions for space compatibility, data acquisition and preprocessing*
 - *AWS IoT Greengrass and Cloud Services for deep learning inference, data management, downlink, and information utilization*



Upcoming edge computing constellations



Pioneering Cloud Computing in Space



- ESA awarded the 3CS4EO* program to **TAS, Novaspace and Unibap** in 2025
 - Centered on **future mission concepts with cloud computing** and AI in Orbit for EO
 - Defining a disruptive concept:
 - *How to process and **act on data in orbit***
 - *Analysing multiple system architecture*
 - *Defining commercial potential and use-cases*
 - *Enabling **autonomous and intelligent constellations***
- Paving the way for demonstrations of a **future European EO system** optimised with Edge Computing

*Cognitive Cloud Computing in Space for Earth Observation



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