



We create for the future

Company brief

Industrial heritage

What we offer

A

INASCO HELLAS

Company brief

Space
Aeronautics
Composites

A satellite view of Earth from space, showing the curvature of the planet and the blue oceans. The landmasses are visible in shades of green and brown, with white clouds scattered across the surface. The horizon line is visible in the upper right corner.

Brief & Core business

INASCO HELLAS. Industrial SME, founded in 1989

Developing & building of Structures & MGSE
for Space, Aeronautical & Defence applications

Product & activity groups

Spacecraft/Satellite Platform
& Payload structures

Mechanical Ground Support Equipment (MGSE)
for satellite AIT operations

Composites structures manufacturing

Next-gen Aerostructures

Technology Development
in advanced manufacturing



International clientele & partnerships

Our customers are leading Agencies, LSI, Primes
& Tier-1 Aerospace manufacturing companies

Clients

ESA (European Space Agency) [ESTEC](#)

Airbus Defence and Space [France](#)

Airbus Defence and Space [UK](#)

Beyond Gravity [Switzerland](#)

SENER Aeroespacial [Spain](#)

Airbus Operations [UK](#)

Bombardier [UK](#)

Suzlon Group [India](#)

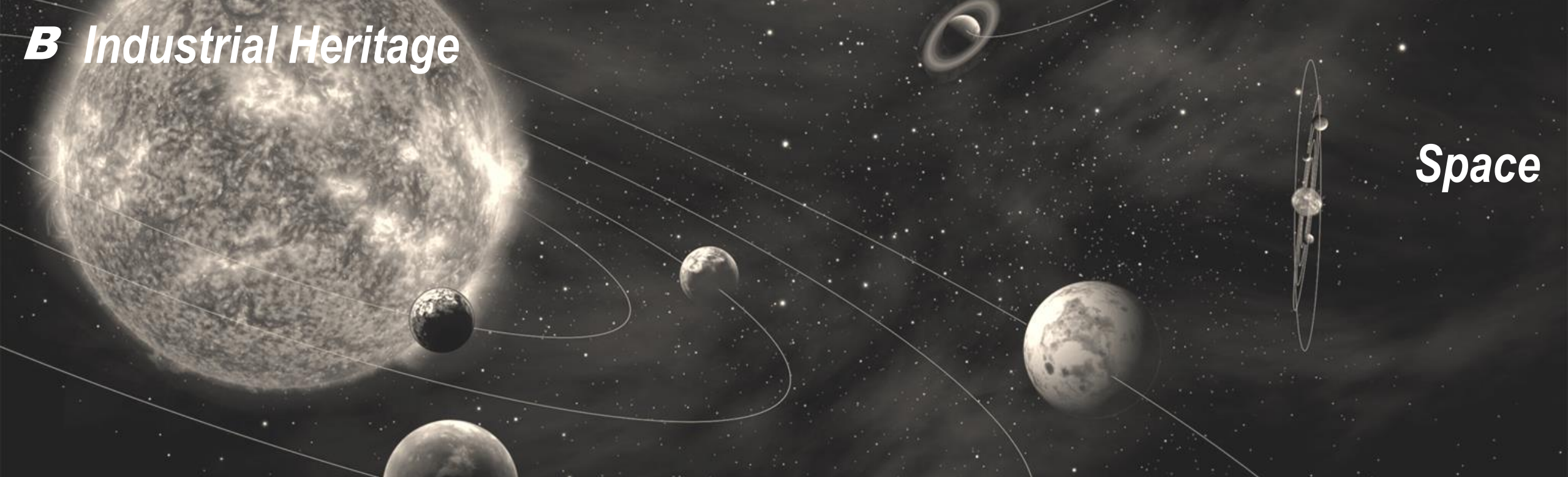
Premium AEROTEC [Germany](#)

Momentive [Germany](#)

Fibretech Composites [Germany](#)

Exel Composites [UK](#)

Epsilon Composites [France](#)



B Industrial Heritage

Space

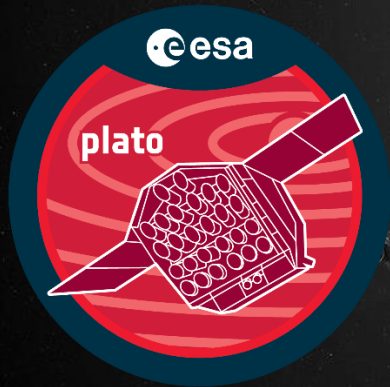


Aeronautics

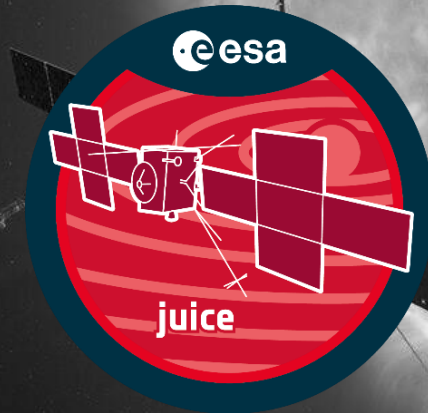
Space Heritage. ESA missions

Planetary Exploration Future Earth Observation

PLATO



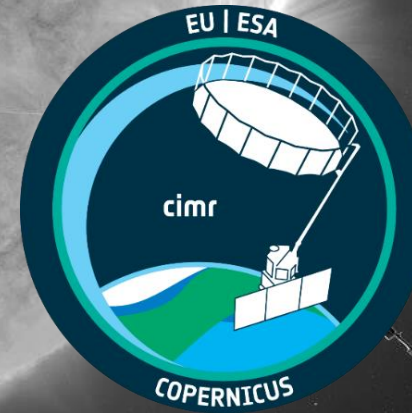
JUICE



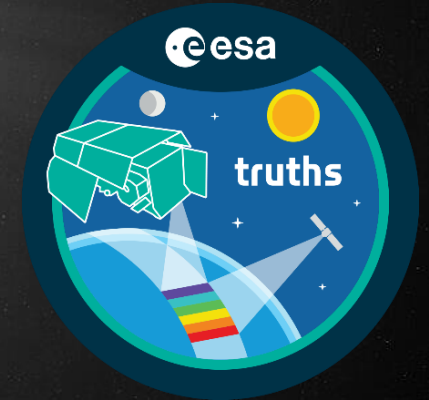
EnVision



CIMR

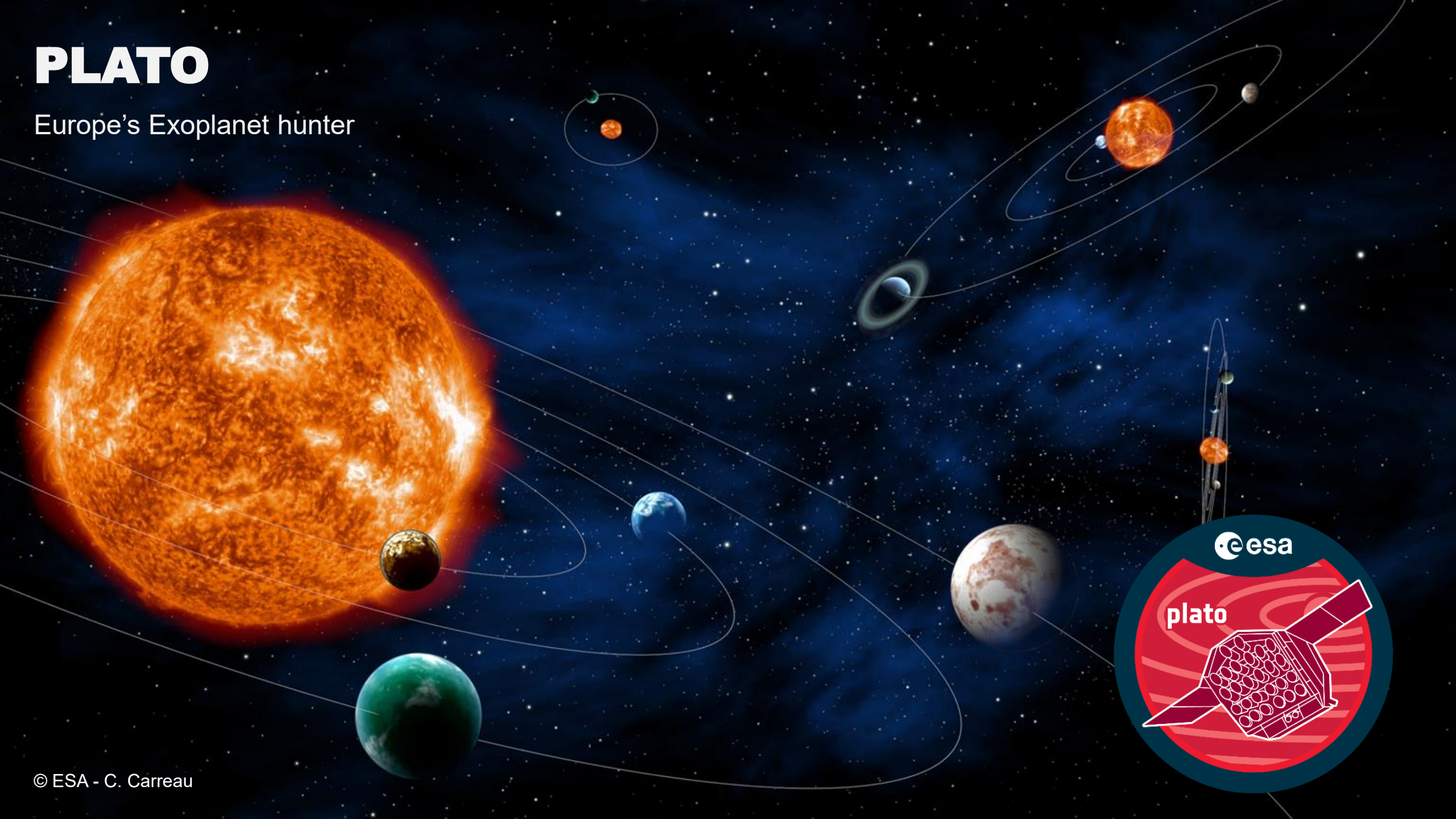


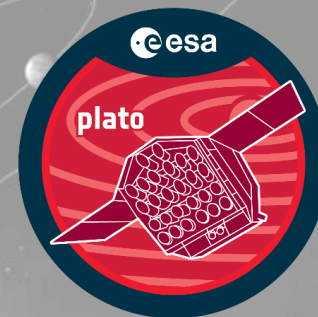
TRUTHS



PLATO

Europe's Exoplanet hunter



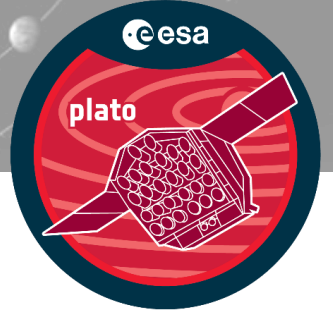


for all PLATO models: PFM, STM, DMBB

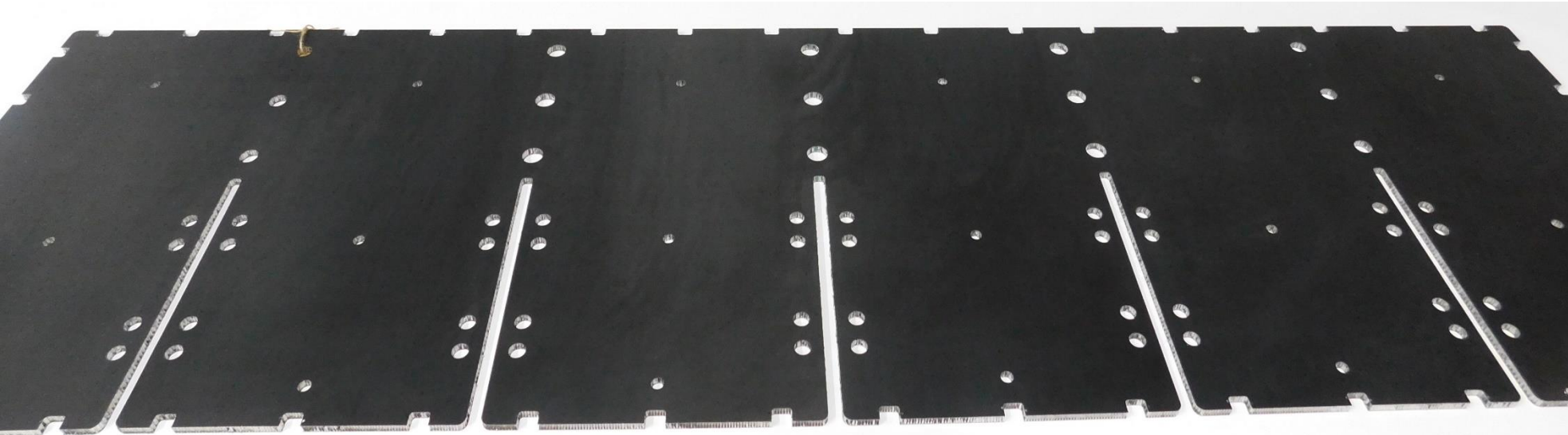
INASCO manufactured & delivered the CFRP structural panels and cleats of the PLATO Optical Bench Assembly (OBA)

- ✓ ***100% on-quality*** for PLATO manufactured parts
- ✓ ***0% returns*** of PLATO manufactured parts

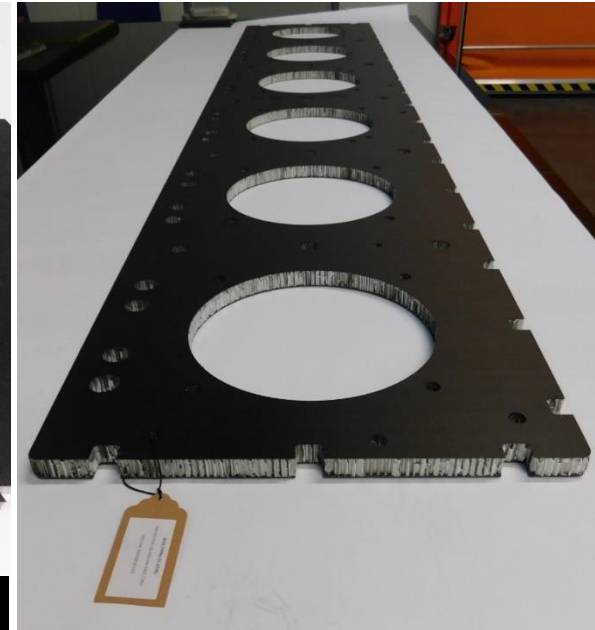
55+ CFRP large structural sandwich panels



INASCO's CFRP panels are assembled together with the use of the CFRP cleats, to form the mechanical structure ("skeleton") of the OBA that houses, supports and secures, in absolute alignment, the 26 ultrasensitive cameras of PLATO



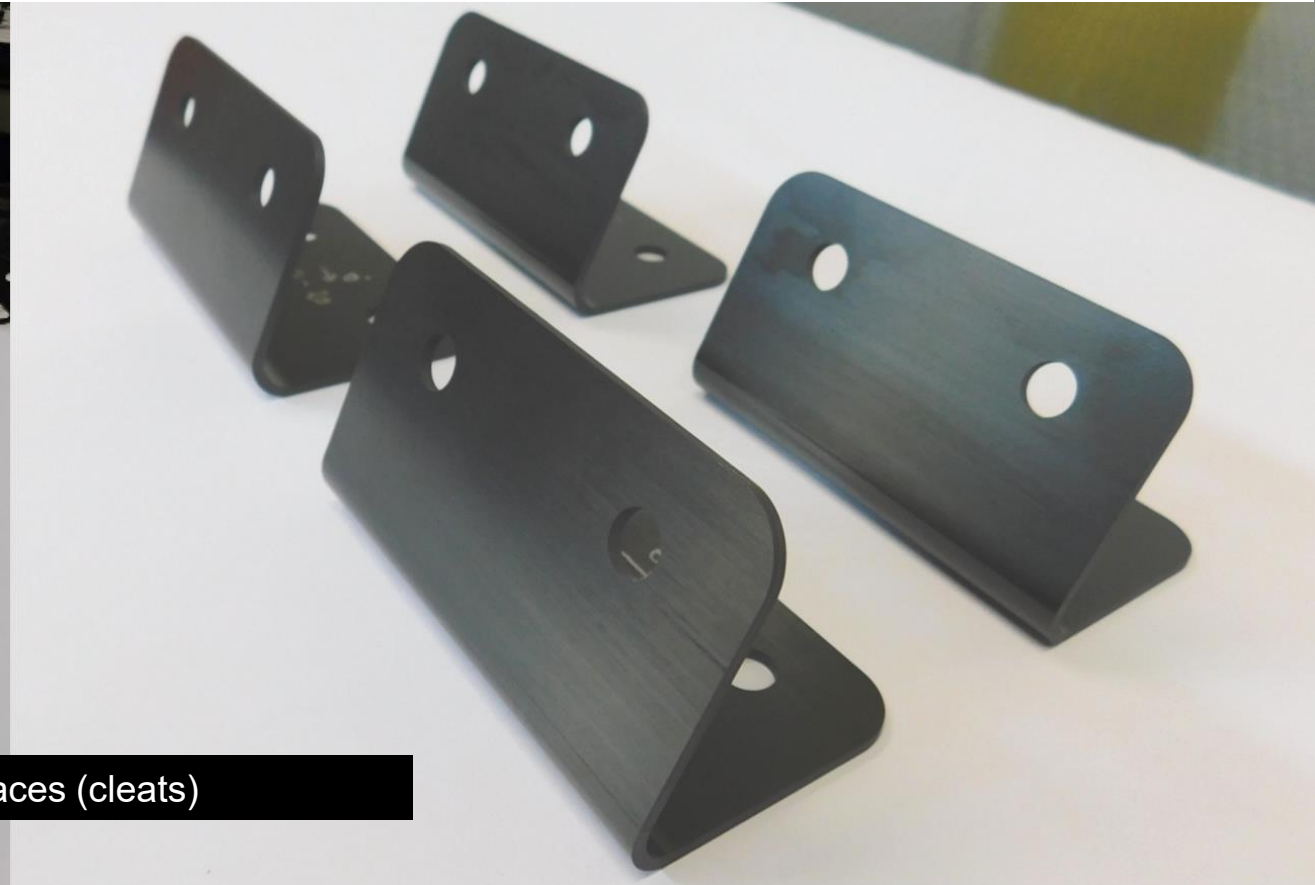
INASCO's large CFRP structural panels manufactured for the PLATO OBA



550+ CFRP structural interfaces (cleats)



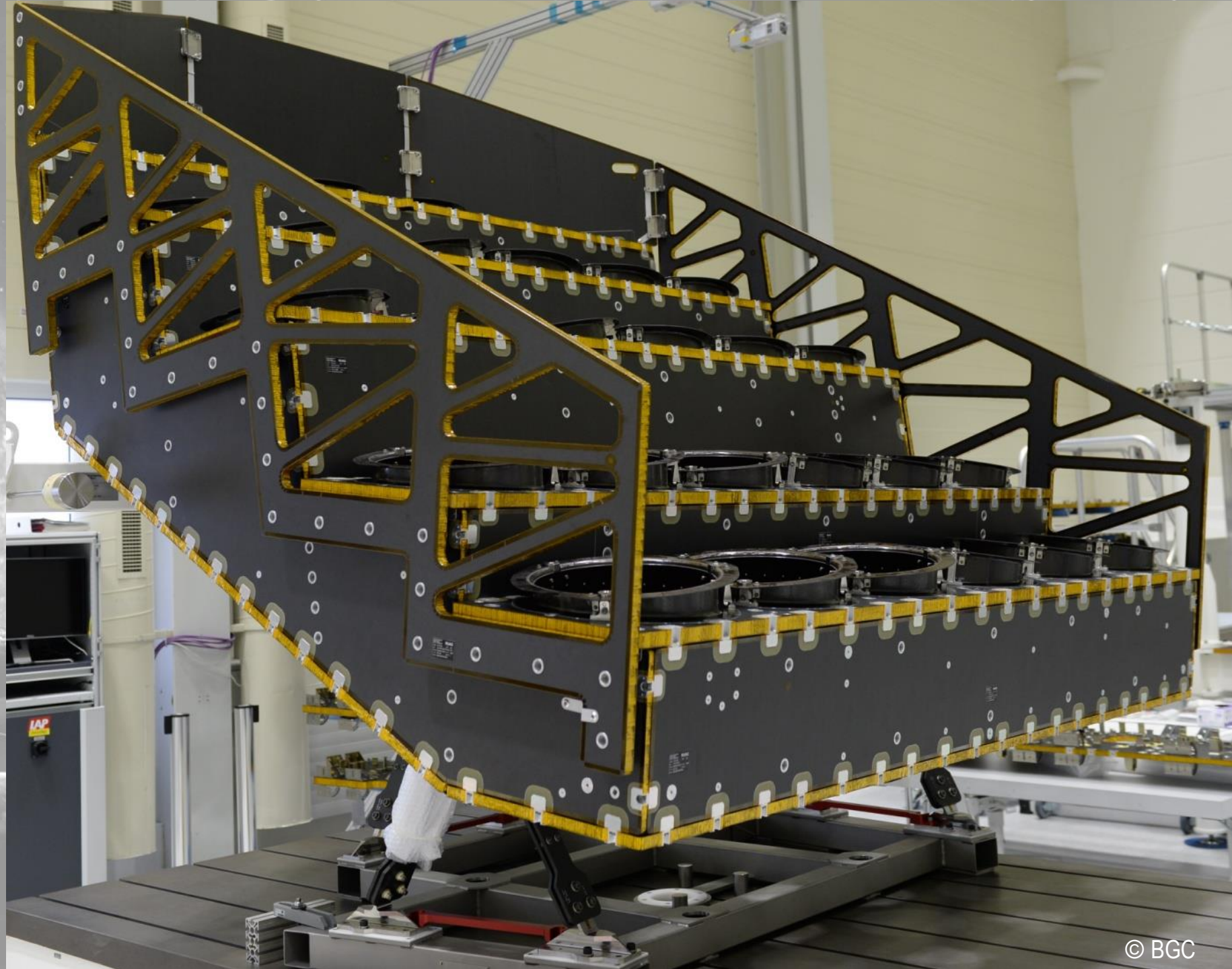
By developing in-house, several special production molds with different geometries, we could manufacture cleats that had varying angles, allowing increased AIT flexibility for the structure



Structural interfaces (cleats)

Assembled PLATO OBA

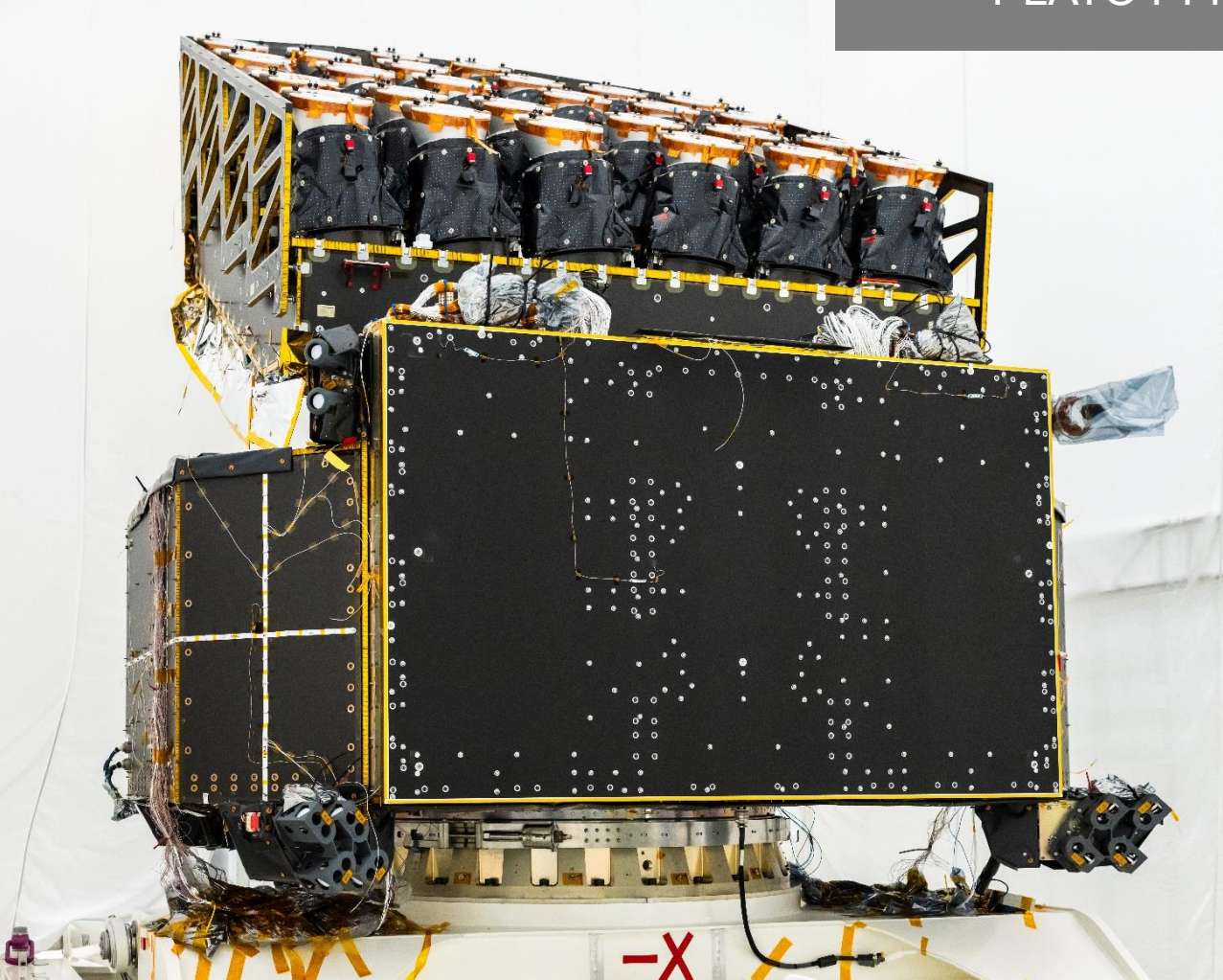
@ BGC premises



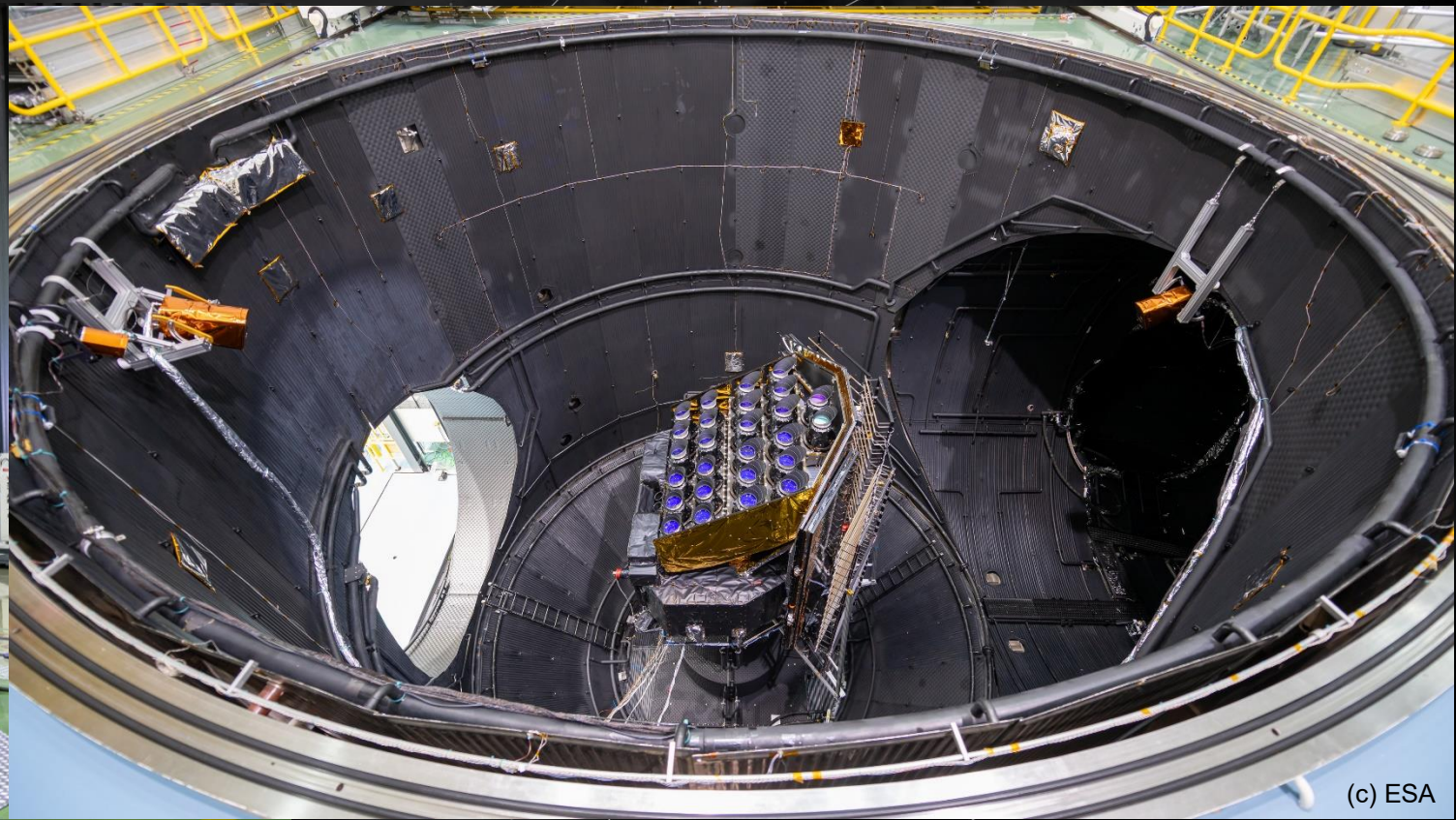
PLATO PFM is currently at ESA, undergoing a series of vital tests prior to launch



PLATO PFM @ ESTEC



PLATO PFM having passed successfully the series of vibration tests, is now undergoing in the Large Space Simulator experiencing space-like conditions



(c) ESA

PLATO PFM on Shaker & LSS

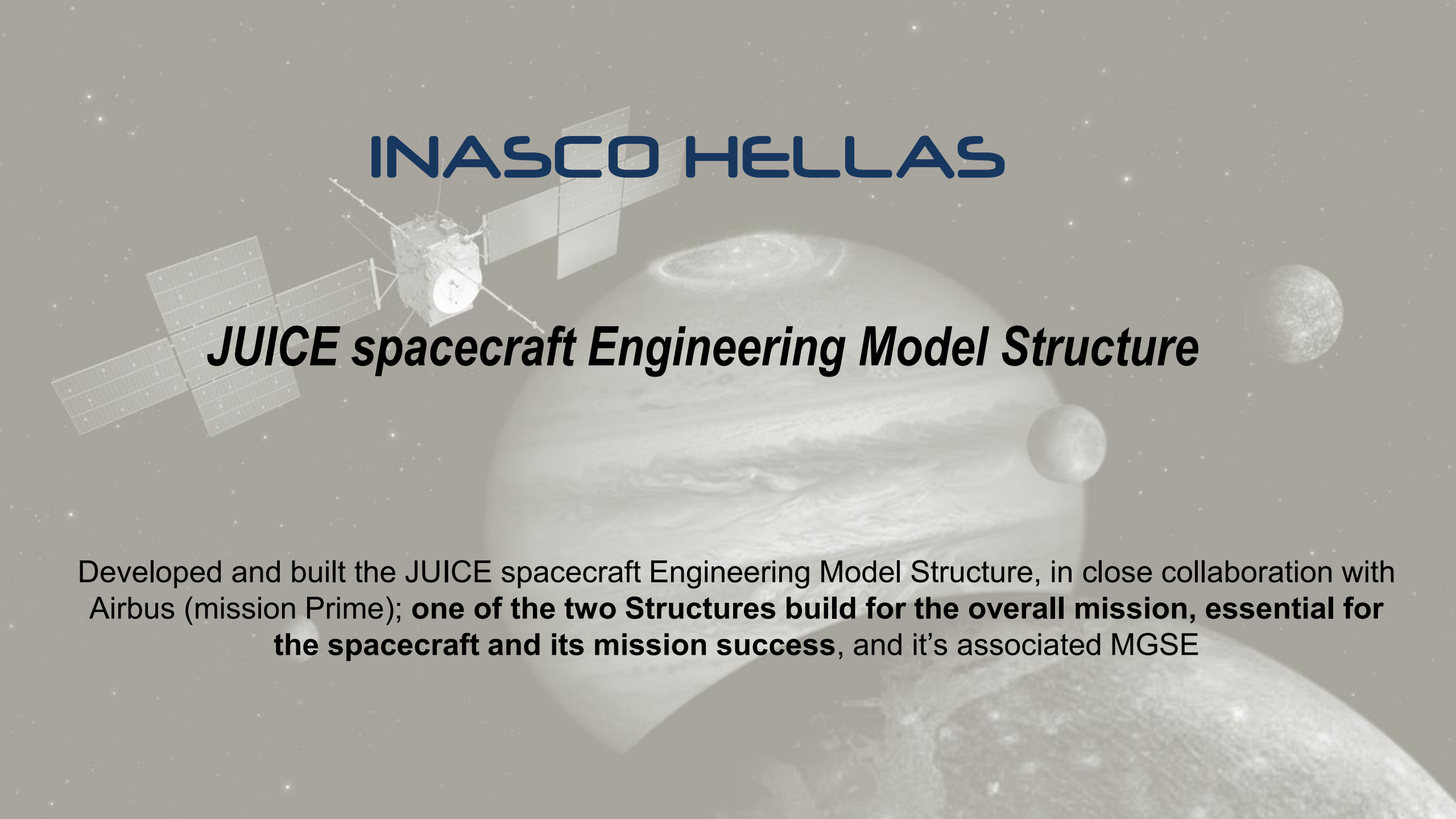
*Planned launch Jan-
2027 on Ariane6!*



JUICE

Jupiter Icy Moons Explorer



The background of the slide features a grayscale image of Jupiter with its characteristic cloud bands and a large red spot. In the upper left, the JUICE spacecraft is depicted with its solar panels extended. To the right of Jupiter, two of its moons are visible. The overall scene is set against a starry space background.

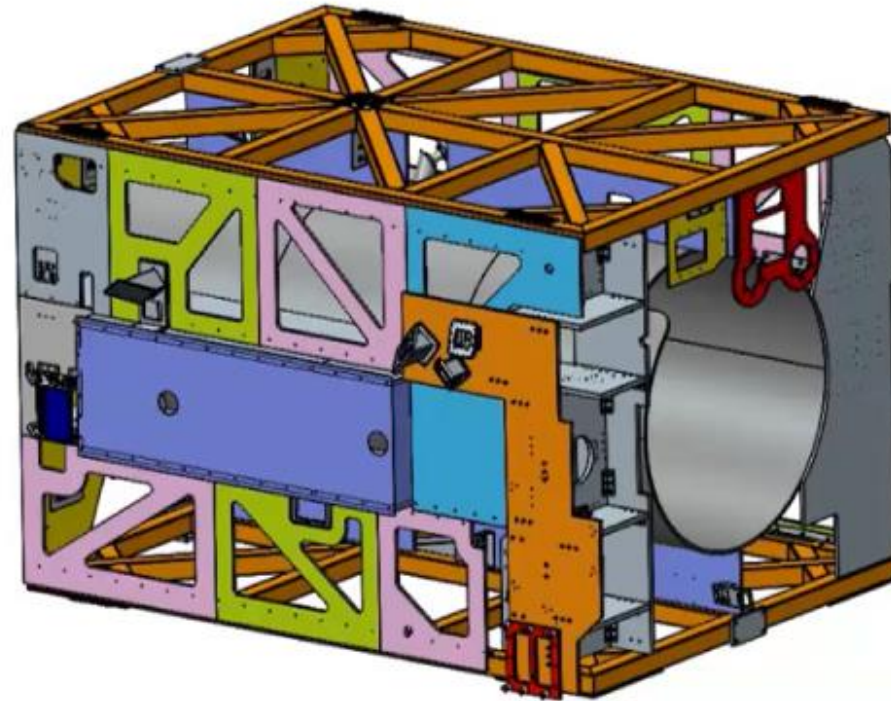
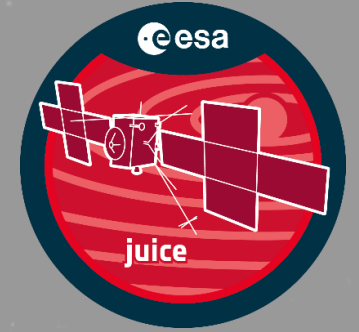
INASCO HELLAS

JUICE spacecraft Engineering Model Structure

Developed and built the JUICE spacecraft Engineering Model Structure, in close collaboration with Airbus (mission Prime); **one of the two Structures build for the overall mission, essential for the spacecraft and its mission success**, and it's associated MGSE

JUICE S/C EM structure

Design
Development



JUICE program is funded by ESA. ADS SAS prime contractor of the JUICE space mission

JUICE S/C EM structure

Manufacturing, Assembly, Integration, Testing



received AIRBUS distinction for exceptional contribution

Mechanical Ground Support Equipment

Transportation Container



JUICE EM structure Transportation container
credit INASCO, ESA & AIRBUS

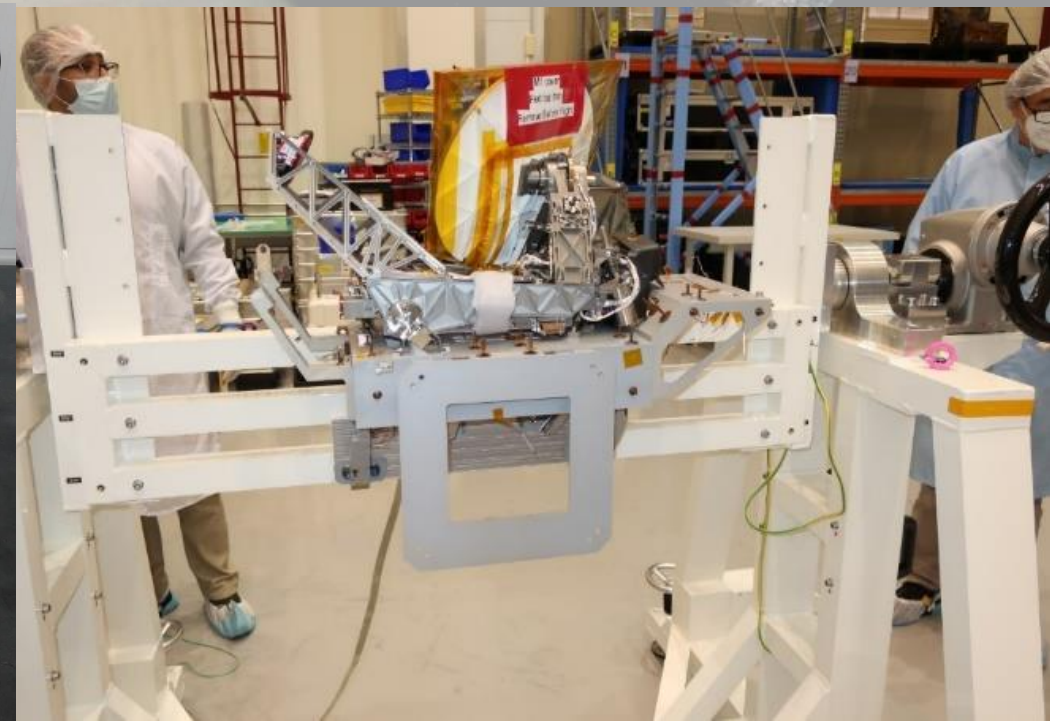
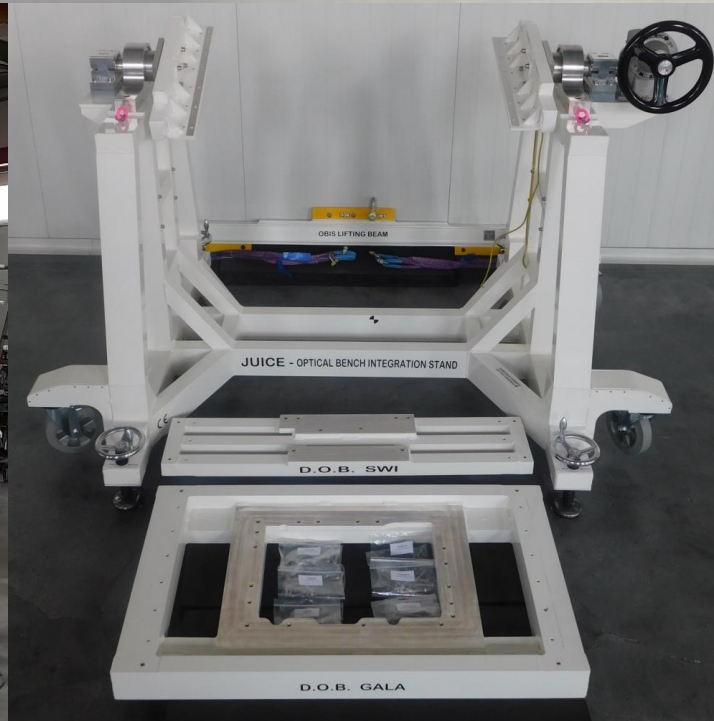
JUICE EM & Transportation container arrive at ESOC
© ESA

Mechanical Ground Support Equipment



Lifting & Tilting devices

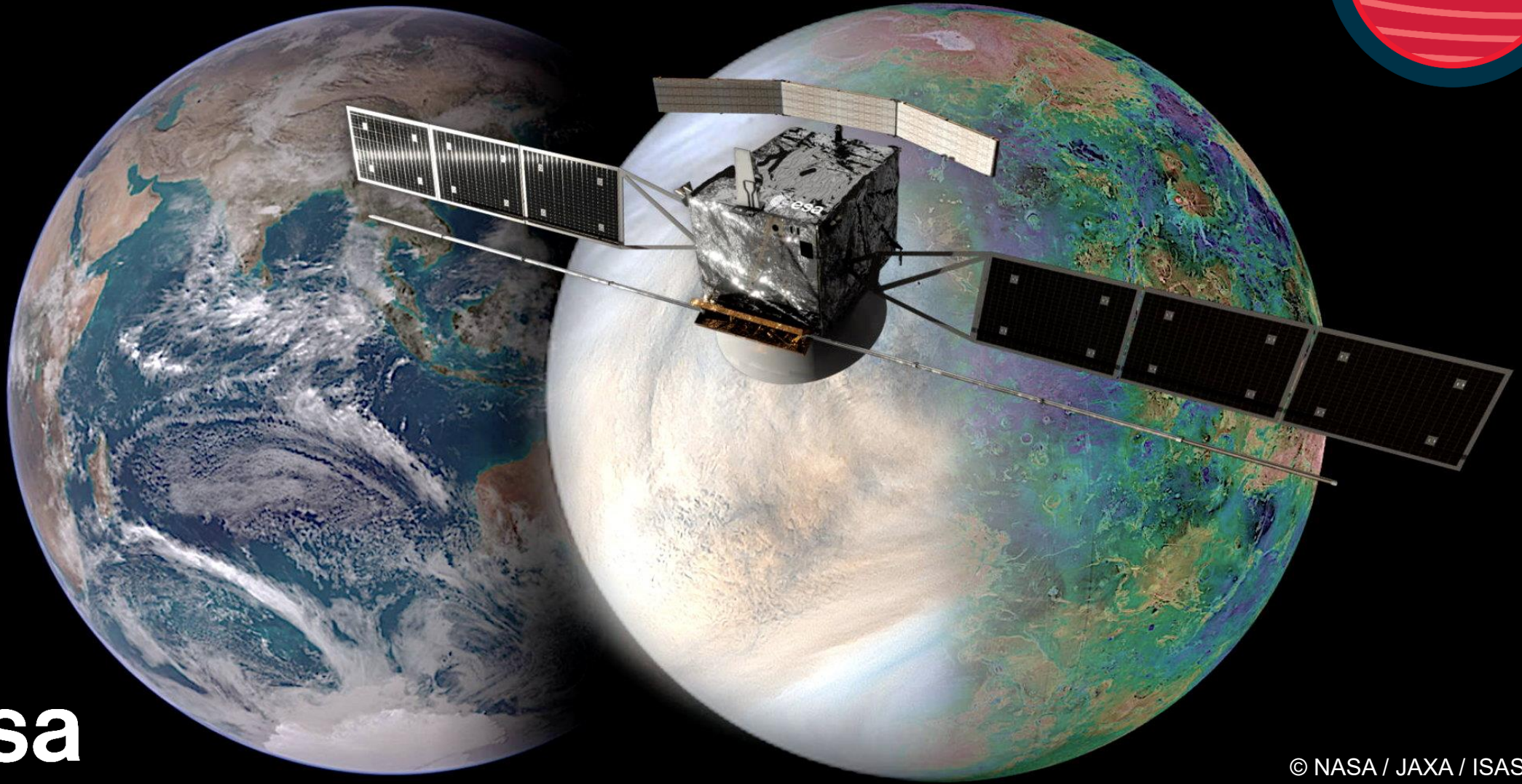
Optical Benches Integration Stands
for AIT of Flight Instruments



INASCO manufactured MGSE credits INASCO, ESA, AIRBUS

Envision

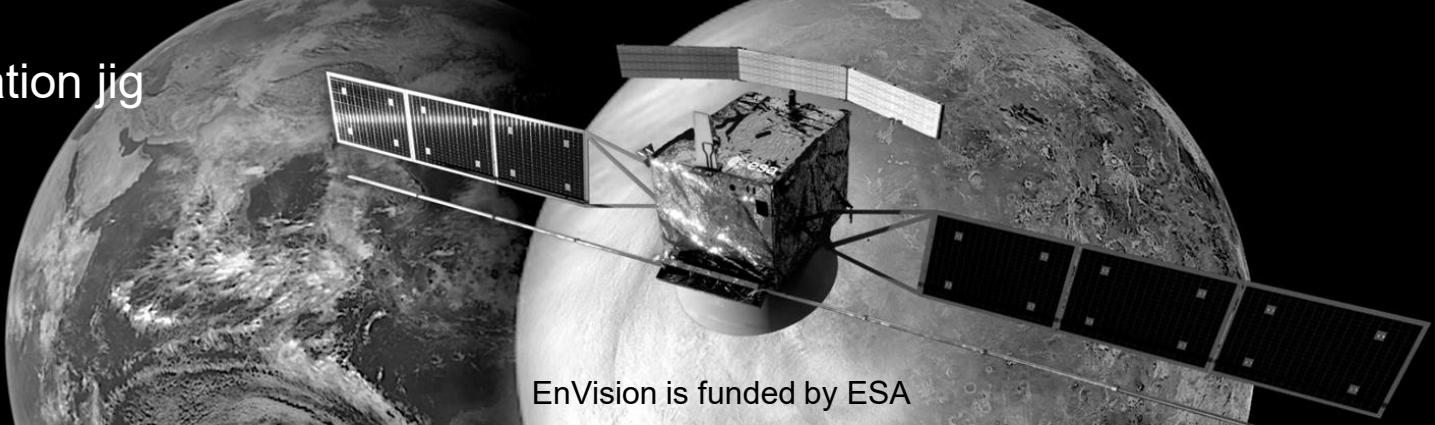
Understanding why Venus is so different from Earth, source: ESA



© NASA / JAXA / ISAS / DARTS
/ Damia Bouic / VR2Planets

Sub-Surface Radar Antenna Boom BB & vibration jig & EnVision Spacecraft mockup

Manufacturing, Assembly,
Integration, Testing



EnVision is funded by ESA



Antenna Boom BB mounted on vibration jig
credit INASCO



SC mockup simulating in-orbit configuration,
balloon testing © **SENER group**

Aeronautics heritage

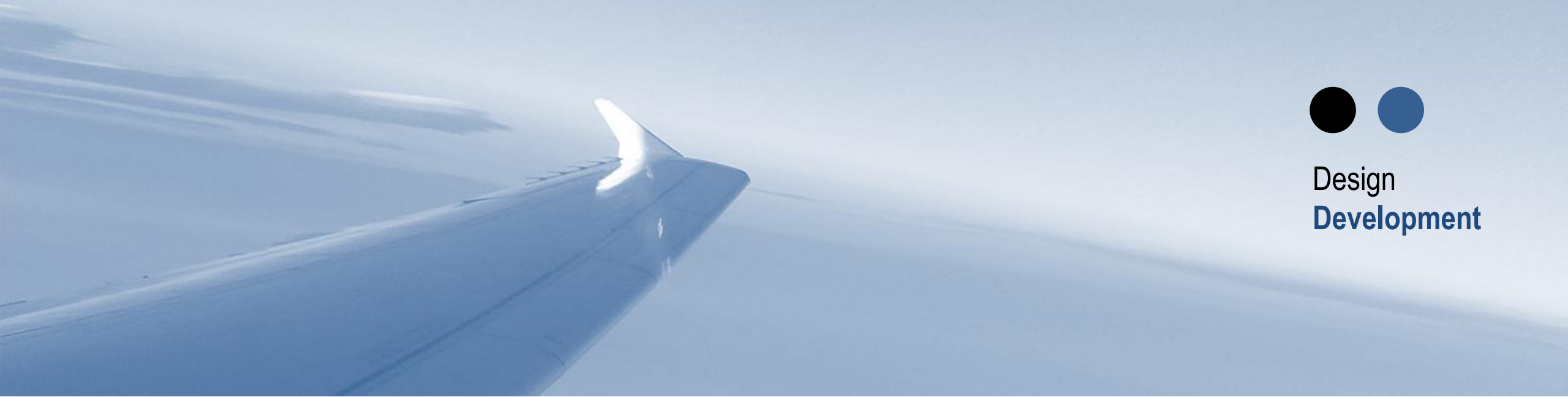
Next Generation Prototype Aerostructures



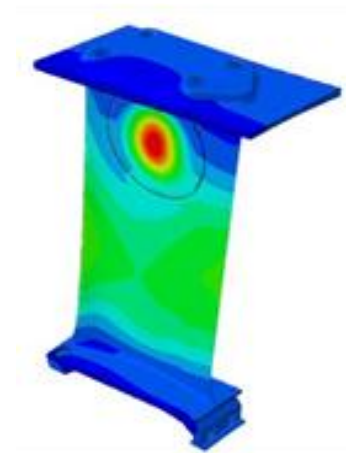
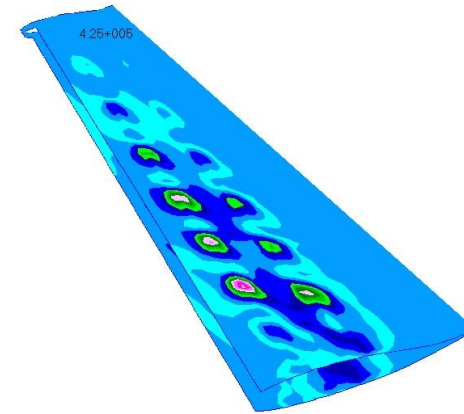
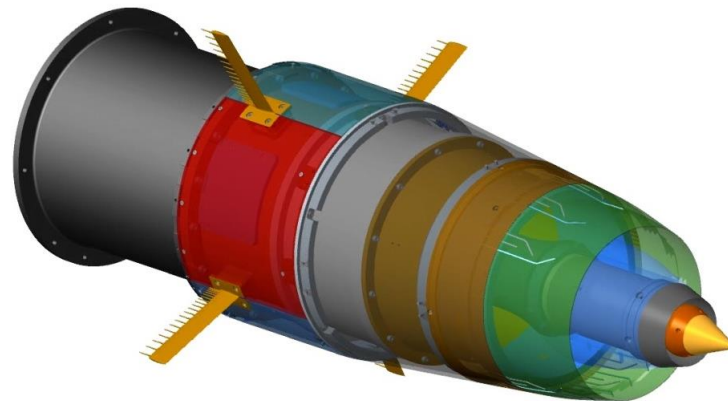
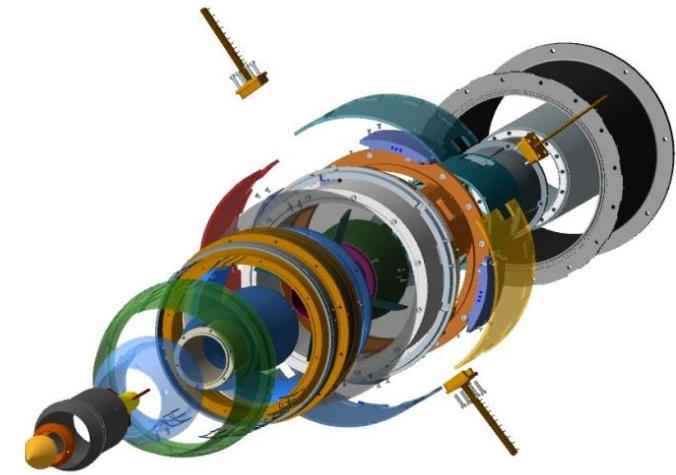
Aircraft Jet Engine

Composites Aircraft multifunctional parts

Composite structural panels



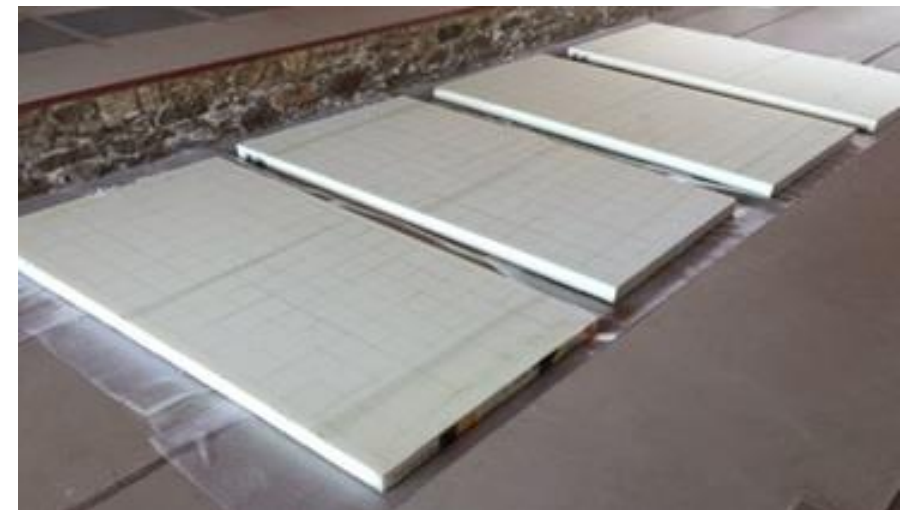
Design
Development



Nacelle parts, advanced Nozzles concepts, composites winglets, composites outer-guide-vanes



Composites Parts Manufacturing



Multi-functional CFRP wing-box ribs, multi-functional CFRP Outer-Guide-Vane,
GFRP Sandwich Panels (for blast protection)



Industrial cooperation with INASCO

What we offer!!

Products & Technologies
Cooperation
Activities

Satellite Platform & Payload structures

- Structural sandwich & monolithic panels (CFRP, Aluminium with AL honeycomb core)
- CFRP cleats and monolithic parts: various angles
- Complete structural models and sub-systems
- Payloads and Instruments mechanical structures
- Mechanical interfaces for structures, instruments, equipment and harnesses support
- Mechanical housings and supports

MGSE

- Lifting & Handling frames and devices
- Integration stands & devices for structures, panels, instruments
- Transportation Containers for Structures, MGSE and instruments
- Satellite mockups



Industrial cooperation

Space, National Defence

Air, Sea, Land

Planetary Exploration, Space Science, European Resilience from Space (ERS), Telecom, Earth Observation, Space Safety, Space Transportation, Navigation, National Space & Defence Copernicus & Sentinels, IRIS-2, Galileo, SATCOM, small satellites, constellations Aircraft, UAVs, Rotorcraft, Naval Vessels, Tactical Vehicles

Technology Development programs

Structures
Composites Manufacturing
Advanced Manufacturing

Commercial & Institutional markets

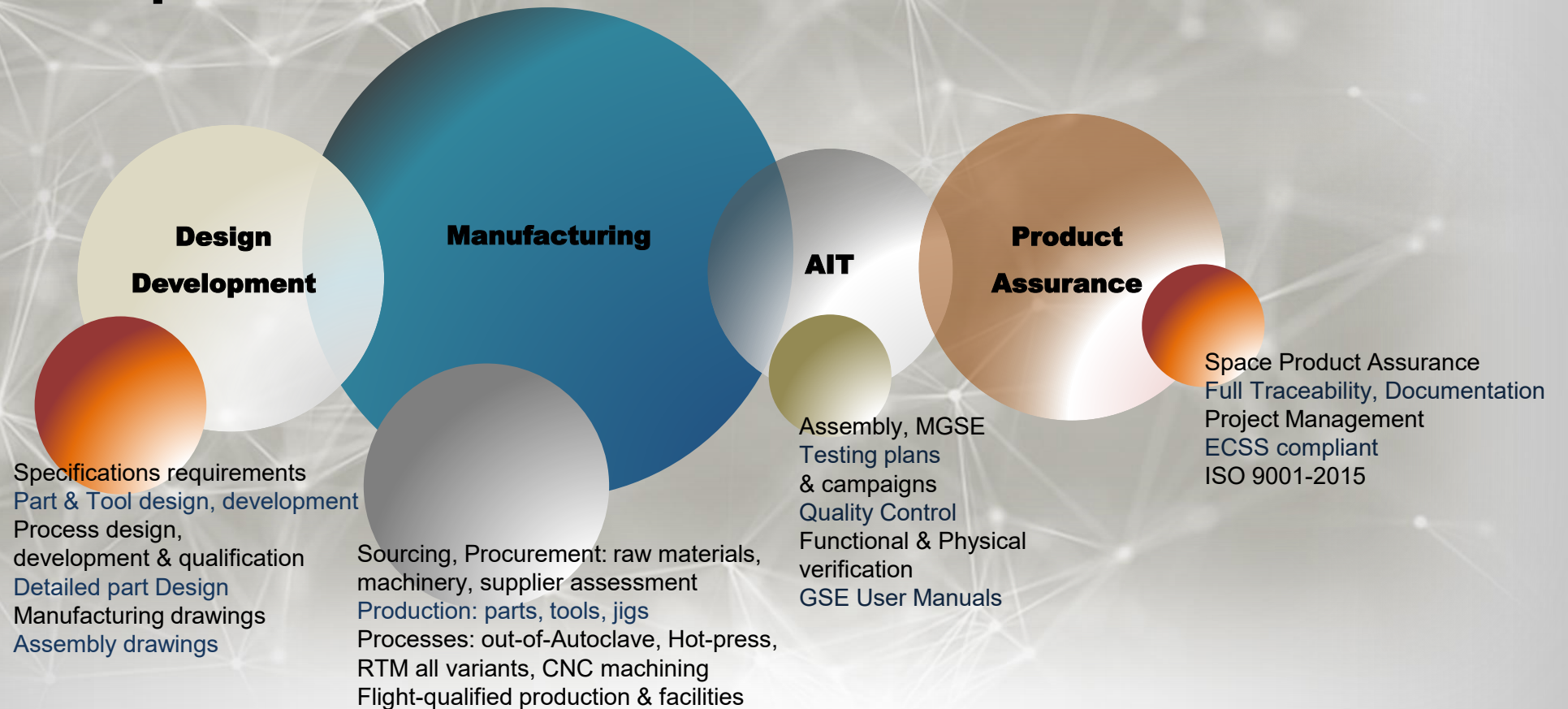
new-Space
Aeronautics & Defence

Activities

Built-to-Specs
Built-to-Print

Aerospace Product Development

ON-TIME, ON-QUALITY



Contact



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