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N. Wagner, *Introduction and Welcome*, 6<sup>th</sup> ESA REACH Workshop, ESA ESTEC, Noordwijk, the Netherlands, 17<sup>th</sup> June 2025

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# 6th ESA REACH workshop – introduction & welcome

Nicoletta Wagner Head of Future Engineering Division

17/06/2025

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# **WE ARE ESA**



### **EUROPE'S GATEWAY TO SPACE**

**WHAT** 

23 Member States, > 6000 workforce

**WHY** 

Exploration and use of space for exclusively peaceful purposes

WHERE

HQ in Paris, 7 sites across Europe and a spaceport in French Guiana

**HOW MUCH** 

€7.68 billion\* = €12 per European per year

\*https://www.esa.int/ESA\_Multimedia/Images/2025/01/ESA\_budget\_2025

ESA has defined 5
encompassing goals,
each with corresponding
objectives and concrete
strategic actions, to chart
a path forward for
Europe in space





### ESTEC - the European Space Research and Technology Centre in Noordwijk, the Netherlands

is the incubator for European space mission. Most ESA projects are *born* here and are guided through the various phases of development from here.



**♦** ESTEC

### **CoC** industrialisation



Accelerating Europe's readiness for scalable, resilient, and competitive space

#### THE CHALLENGE BEHIND IT



- ✓ Europe must catch up on industrial scalability, as global investments and commercial space demand surge.
- ✓ Digital transformation and resilient supply chain are essential, requiring automation, smart factories and integrated industrial ecosystems to ensure global competitiveness
- ✓ Future space markets can only be captured through widespread adoption of innovative manufacturing solutions tailored for industrialization

#### **OUR AMBITION**



- √ Support industrialization and serialization
- ✓ Bridge technology maturity with production scalability
- ✓ Enhance competitiveness through automation, digitalization, and manufacturing maturity frameworks

#### **OUR FOCUS**

- √ From prototype to product
- ✓ Resilient Supply Chain
- ✓ From product to serial production

### **Center of Competence – High Level Objectives**



- 1. Assessment and enhancement of Manufacturing Readiness Level (MRL)
- **2. Facilitate industrial production** readiness for future space constellations
- 3. Increase resilience of production processes and lower production costs
- 4. Establish resilient and autonomous supply chains



The CoC is being set up in the new Future Engineering division within the Systems Department (TEC-S). It aims to support industries in industrialisation and serialisation.

# **OSIP CAMPAIGN & Next Steps**



### **Objectives**

- Identify concrete use cases and industrial needs
- Map capabilities (system integrators, suppliers, testing facilities)
- Gather further ideas to guide ESA support actions and pilot projects
- Co-develop best practices, methods & tools for industrialization

#### **Next steps**

Open call: focused on 3 axes - "prototype to product", "supply chain resilience" and "design for serial production"

Launch survey: collection of needs across large and small players

Pilot actions: selected based on maturity, impact and scalability potential

#### Let's shape it together

We welcome your feedback, industrial insights and use cases.

Please reach out to me directly to share your ideas and explore
how to engage in shaping ESA's industrialization strategy

# ReUSE! platform



**ReUSE!** is an initiative of the ESA with the objective of:

- Ensuring best usage of existing means
- Environmentally friendly and economically viable re-use
- Reducing environmental impact associated with new construction
- ✓ Reducing time to market

ESA's asset availability platform called ReUSE! is available free-of-charge via the following link <a href="https://www.ReUSE.esa.int">www.ReUSE.esa.int</a>.

The platform is on-line and accessible to externals since January 2025

Open for other programmes to use it



# 5<sup>th</sup> ESA REACH Workshop 2024



- The 5th workshop raised the interest of 90 participants from 3 continents, 12 countries.
- Executive summary as well as all presentations can be found on: <a href="https://atpi.eventsair.com/esa-5th-reach-workshop">https://atpi.eventsair.com/esa-5th-reach-workshop</a>







## Thank you for your attention

TEC Motivation Montage 4K.mp4

We TEC You to the Next Level

We are Proud to Enable ESA's Success