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QUALITÀ NELL'AEROSPACE

Sfide, Risultati e Opportunità
della Qualità nella Space Economy

# GARANTIRE LA QUALITÀ NEI PROCESSI DI PRODUZIONE SERIALE DEI SATELLITI

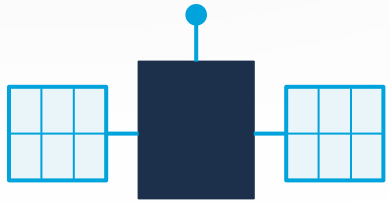

Cristina Corvaglia

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11-12 NOVEMBRE 2026 TORINO

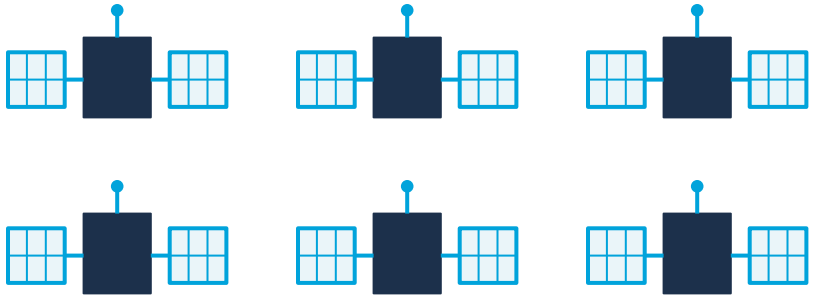
# The satellite market is changing

## Mission-driven projects



Customised missions

## Recurring products



Constellations and recurring units

**Faster delivery** **Standard platforms** **New cost benchmarks**

# Industrialisation for recurring production

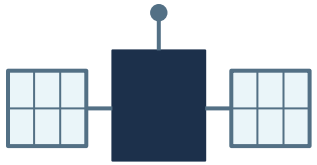
| 1 | 2 | 3 | 4 |
|---|---|---|---|
| **Prototype** | **Qualified product** | **Industrialisation** | **Serial production** |
| Validated concept | Qualified first article | Repeatable capability | Reliable output at scale |

**Repeatable processes support reliable output**

# Technology and manufacturing readiness

## TRL

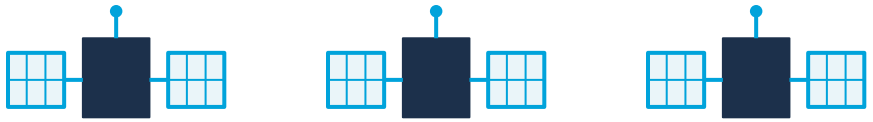
**Does the technology work?**



Technical maturity

## MRL

**Can we manufacture it repeatedly?**



**Repeatable, reliable output**




# Our approach to repeatable production starts from Design

- **Automation**
  Reduce process variability
- **Standardisation**
  Simplify integration and sourcing
- **Resilient supply chain**
  Sustain production flow
- **Qualification & acceptance**
  Design & Manufacturing process verification

# Industrial principles for repeatable production

**Standardisation**
Common interfaces

**Modularity**
Interchangeable units

**Parallelisation**
Concurrent workstreams

**Continuous improvement**
Lessons captured between units

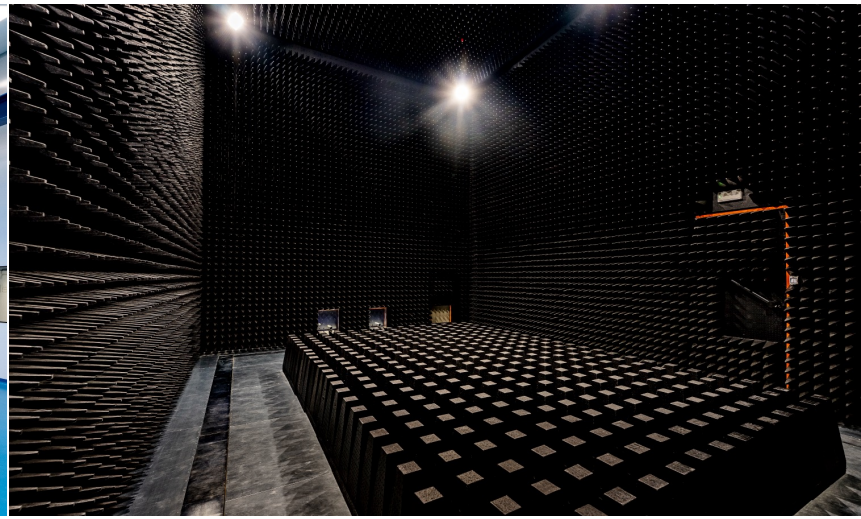
→ **Repeatability**
Consistent execution
→ **Reliability**

# From product to process with continuous improvement









## ASSEMBLY

**The same way, every time?**

## INTEGRATE

**The same sequence and interfaces?**

## TEST

**The same procedure and criteria?**




Designed around the satellite manufacturing process

## Stellar Hub

**2,000+ m²**

**ISO 8**

Clean-room environment

**Assembly**
**Integration**
**Testing**

# Thank you

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