

A satellite with solar panels is shown in space against a blue background with a glowing horizon. A red triangle on the right contains a white satellite icon.

AEROSPACE

EMILIA - ROMAGNA

The most promising value-chain for the regional economy



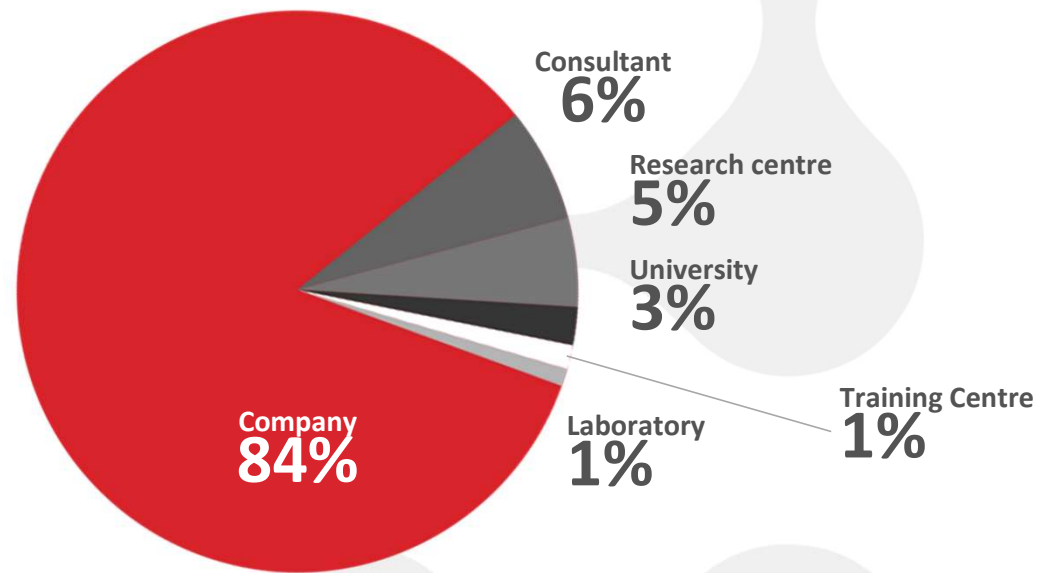
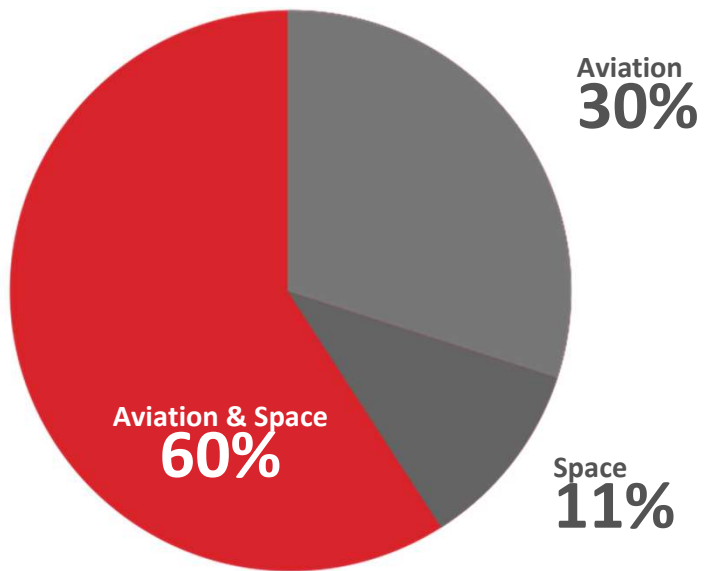
REGIONAL STRATEGY FOR AEROSPACE

- Aerospace recognised as **most promising sector for regional growth** – included in Smart Specialization Strategy 2021-2027
- **Aerospace Strategic Forum** – regional community, a platform for awareness, partnership and collaboration among regional aerospace organizations
- Participation in **trans-regional programmes** in the framework of the Italian Space Economy initiative
- Membership of **CTNA** (National Cluster AEROSPACE)
- Membership of European network **NEREUS** (Network of European Regions Using Space Technologies)



A COMPLETE AEROSPACE ECOSYSTEM

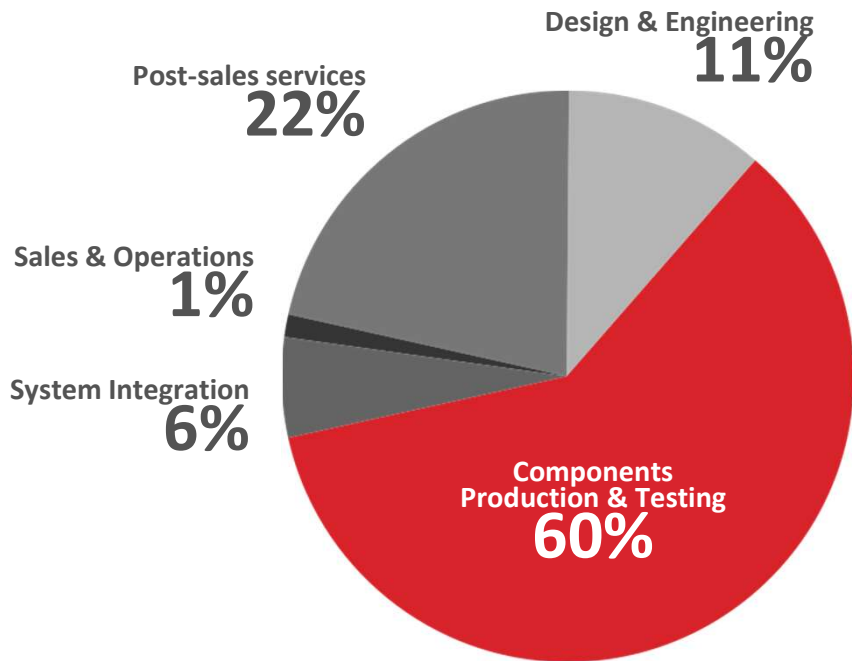
177 REGIONAL PLAYERS



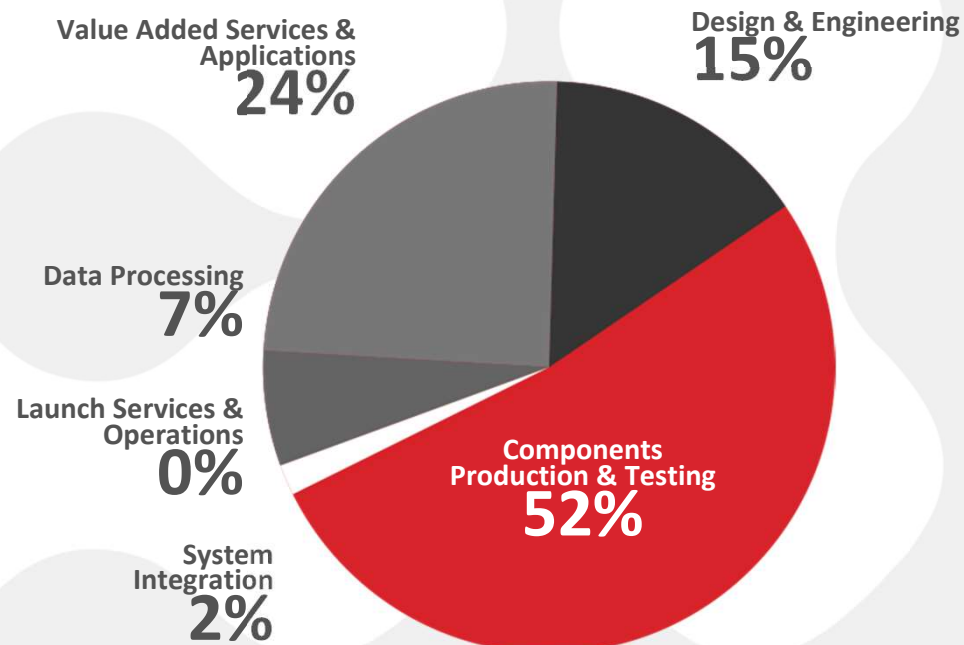


AEROSPACE VALUE CHAIN

AVIATION VALUE CHAIN

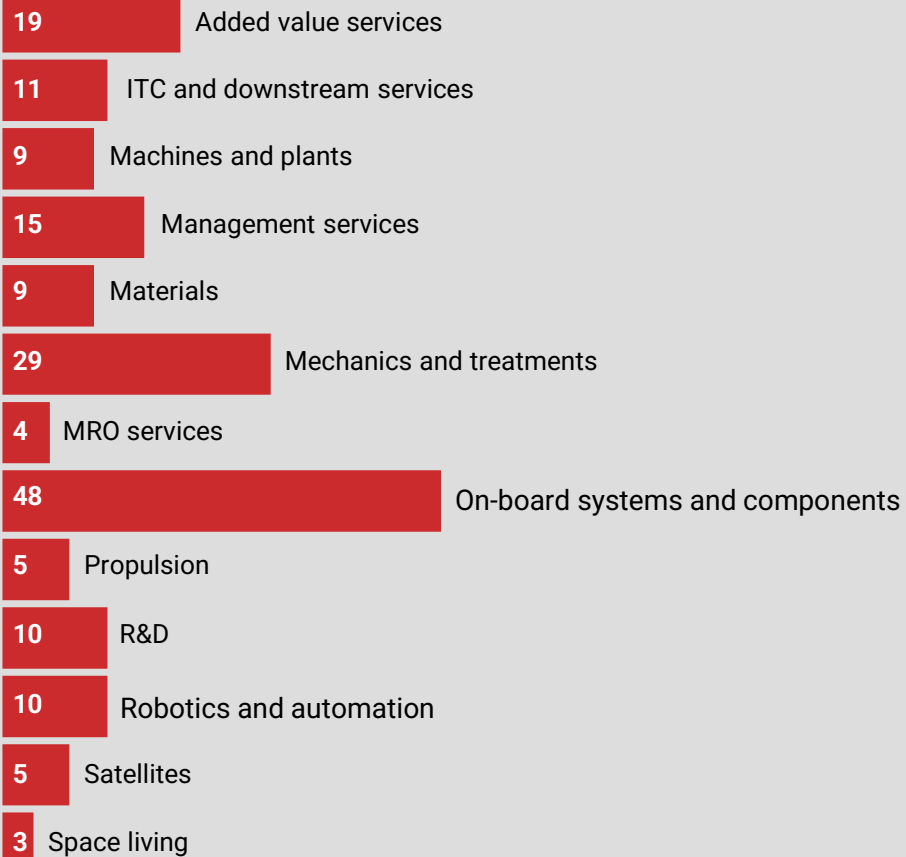


SPACE VALUE CHAIN





AEROSPACE DOMAINS OF APPLICATION



ENABLING TECHNOLOGIES



Advanced materials



Robotics



Orbital debris technologies



Edge computing



Drones



Rockets technologies



AI & Big Data



Propulsion



3D Printing



EEE sensors and components



EMILIA-ROMAGNA AEROSPACE

AVIATION

Climate resilience & neutrality

Advanced air mobility

Maintenance

Satellite miniaturisation

AVIATION

Advanced air mobility

Alternative propulsion and fuel

Future evolution

Major trends

SPACE

Space access

Downstream services

In-orbit servicing

SPACE

Downstream services

Satellite miniaturisation

In-orbit materials and products

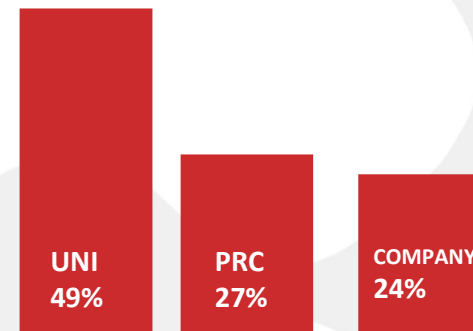


RESEARCH AND INNOVATION ACTIVITIES

- * R&D Projects
- * Research and Innovation infrastructures
- * Research centres
- * Spin-off
- * Courses, masters, PhD

R&D PROJECTS

+80 International R&D projects costing + 130 M€



FUNDED BY

EUROPEAN COMMISSION
EUROPEAN SPACE AGENCY
ITALIAN SPACE AGENCY
ITALIAN FUNDS
PRIVATE FUNDS



RESEARCH CENTRES

- **CIRI Aerospace** - Interdepartmental Centre for Aerospace – University of Bologna
- **TEMAF - Materials technology laboratory** – National Agency for New Technologies, Energy and Sustainable Economic Development
- **OAS** – Astrophysics and space science observatory – National Institute of Astrophysics
- **IRA** – Radioastronomy institute – Medicina Station
- **COS** – Earth space observation centre – National Centre for Geophysics and Vulcanology
- **Laser BrightLab** – University of Modena and Reggio Emilia

INTERNATIONAL INFRASTRUCTURES

- **SKA** – Square Kilometer Array
- **CTA** - Cherenkov Telescope Array
- **CICLoPE** - Centre for International Cooperation in Long Pipe Experiments






EMILIA-ROMAGNA MISSION TO HOUSTON

Delegation

55 participants:

- 12 from the **institutions** (president, deputy president and director general of E-R region, deputy minister of Enterprise and Made in Italy, representative of Ministry of Defence)
- 11 from **R&D** (UniBo, UniPR, CIRI Aerospace, CNR IMM, IRST)
- 17 **companies** (Adaptronics, Anser, Curti, Dallara, Geco sistema, GVM, HighFTech, IEG, Marposs, MEEO, Motridal, Nanoprom, Nautilus, Novac, Poggipolini, Spacemind, Technogym)
- 3 **regional Clust-ERs**: Innovate, Health, Mech.

5 days of mission, with visits to:

- **Companies**: Hewlett Packard Enterprise, Intuitive Machine, NanoRacks, Axiom Space,
 - **Institutions**: Italian Consulate, Houston Municipality, ISSNAF
 - **Partnerships**: Greater Houston Partnership, ION Houston.
 - **Centers**: NASA Johnson Space Center; Texas Medical Center, TMC Innovation, MD Anderson Cancer Center, Methodist Houston, Rice Space Institute (Rice University), Houston Spaceport, San Jacinto College
 - **Conference**: Ascend Texas.
- 



info.aerospace@art-er.it

 Regione Emilia-Romagna