DAC

Campania Aerospace Technological District

A Network model for the development of the Campania Aerospace Industry

2020

DAC Campania Aerospace District

AEROSPACE IN CAMPANIA

In the Campania economic system, the aerospace industry plays a leading role, both in terms of industrial presence and high technological contents.

The sector has almost **13.000 employees** and a turnover of **2.8 B€**, representing a quarter of the national aerospace industry.

Allocation in the Region of **12%** of the whole budget **to R&D activities**

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DAC – The Campania Technological Aerospace District

DAC is participated by 145 entities: 23 large industries (as Leonardo, OHB Italia, MBDA Italia, Magnaghi Aeronautica, Geven, Atitech, Telespazio, Vitrociset, ALA, etc.) **19 research organizations** (as CIRA, CNR, ENEA, INAF, Formit, 5 universities), **and 90 SME's** (most of which grouped into 9 Consortia) and **13 other** kind of organizations

Research funds are focused on strategic projects for Aerospace with an effective fall out on industrial applications.

DAC's transversal initiative tends to enhance the capabilities of the whole regional network and enhance its visibility with the outside Aerospace world.

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DAC MEMBERS

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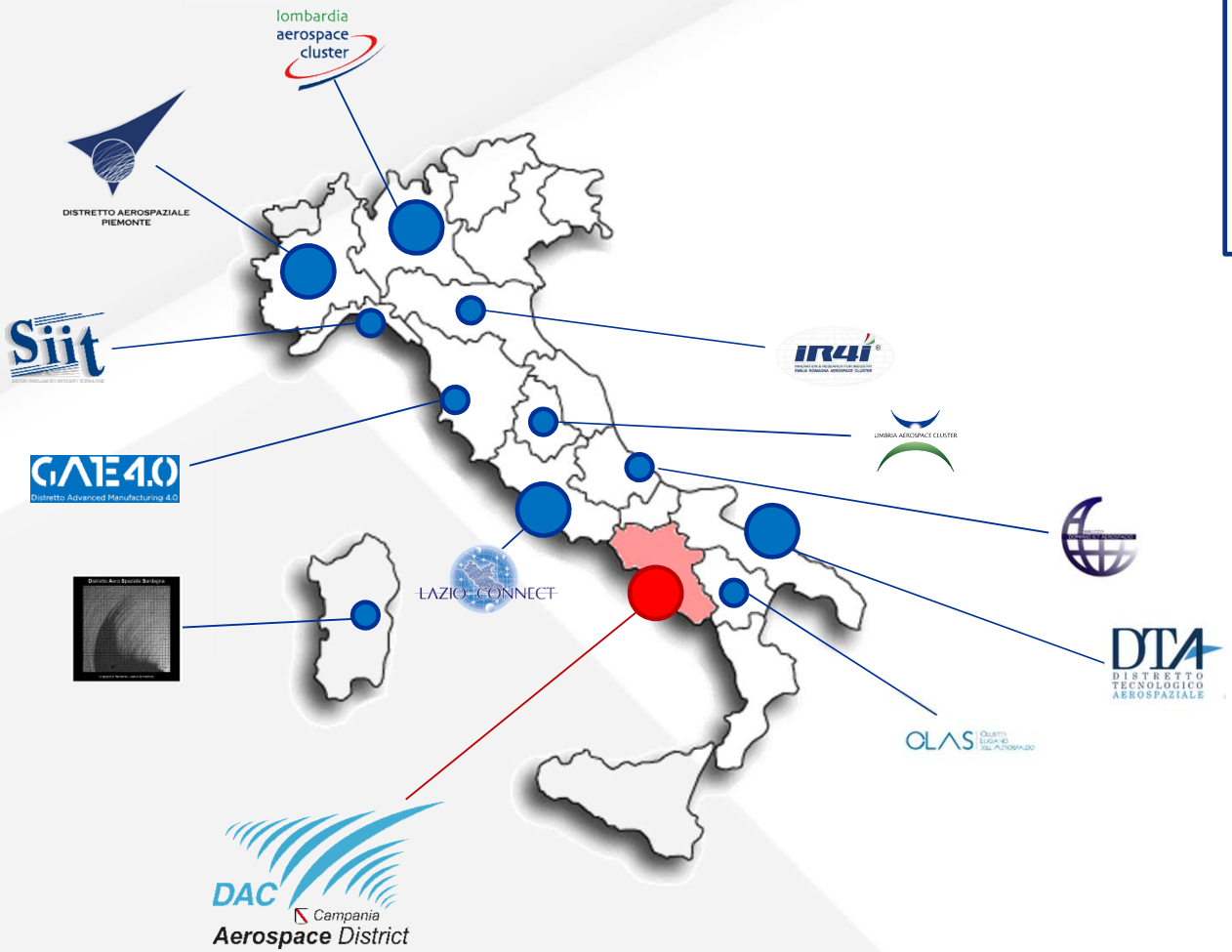
DAC within the Italian Aerospace Cluster network



DAC pursues its objectives within a **meta-District perspective**.

It's **one of the founding members of the National Aerospace Technological Cluster (CTNA)**

CTNA
Cluster Tecnologico Nazionale Aerospazio
Italian Cluster for Aerospace Technology

THE META-DISTRICT SCENARIO

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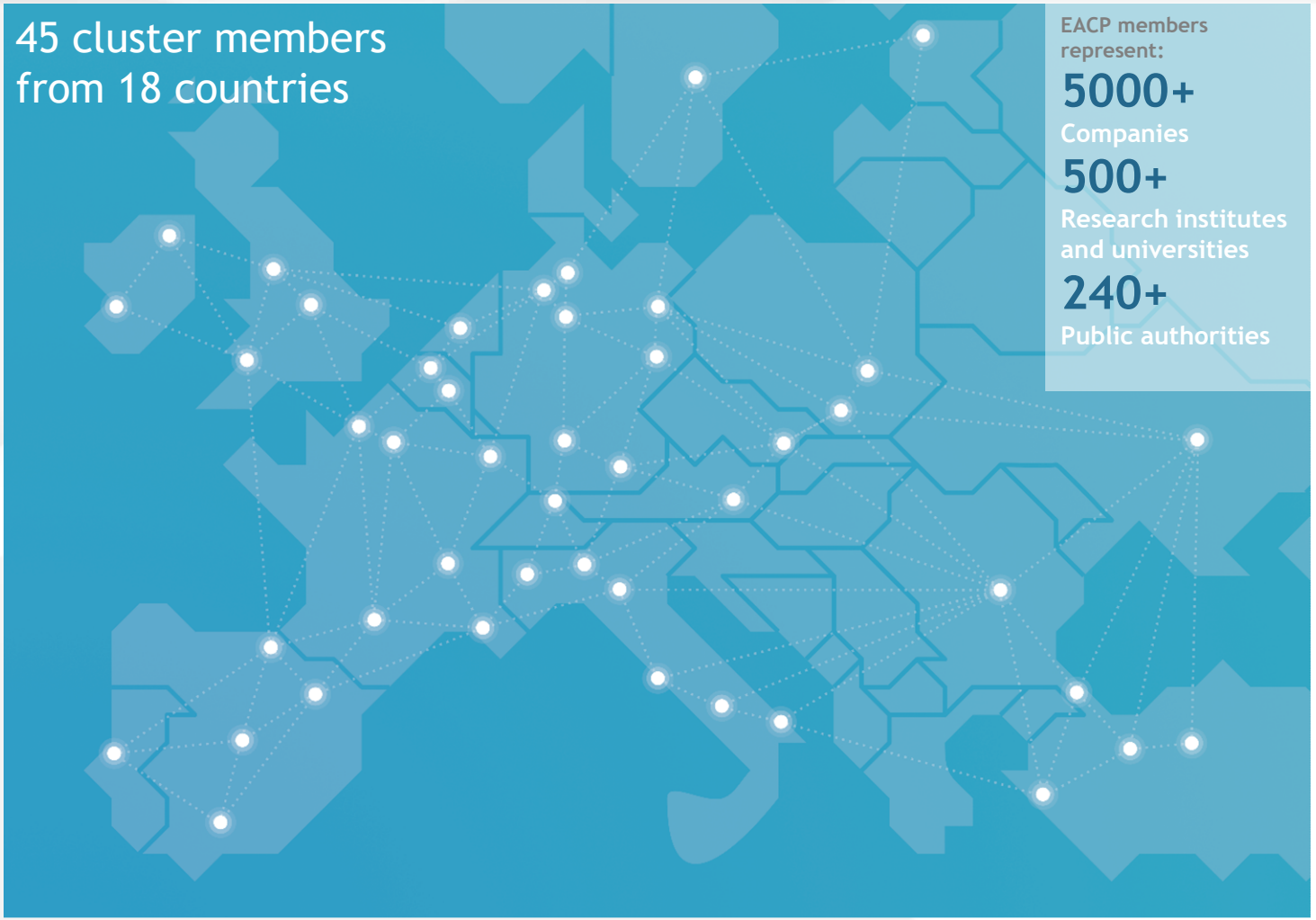
DAC within the EACP, European Aerospace Cluster Partnership

45 cluster members
from 18 countries



EACP members represent:

5000+
Companies

500+
Research institutes and universities

240+
Public authorities

EACP
EUROPEAN AEROSPACE CLUSTER PARTNERSHIP

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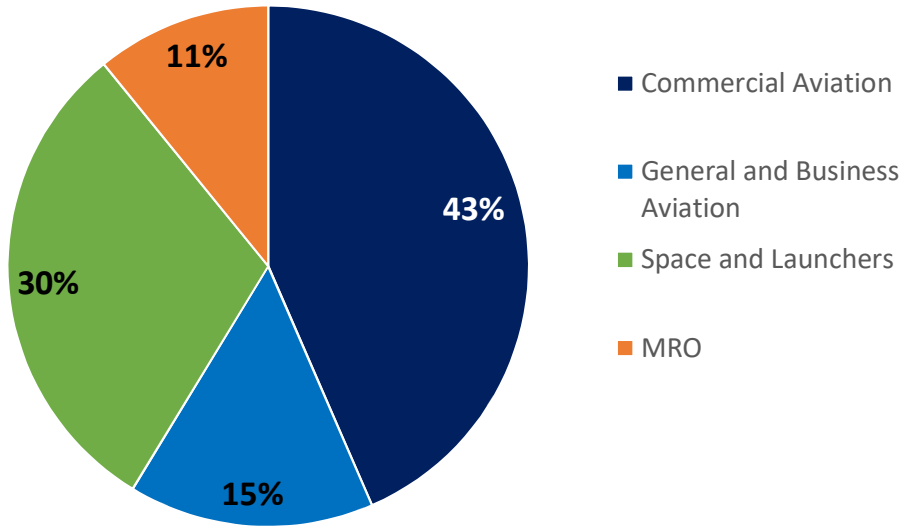
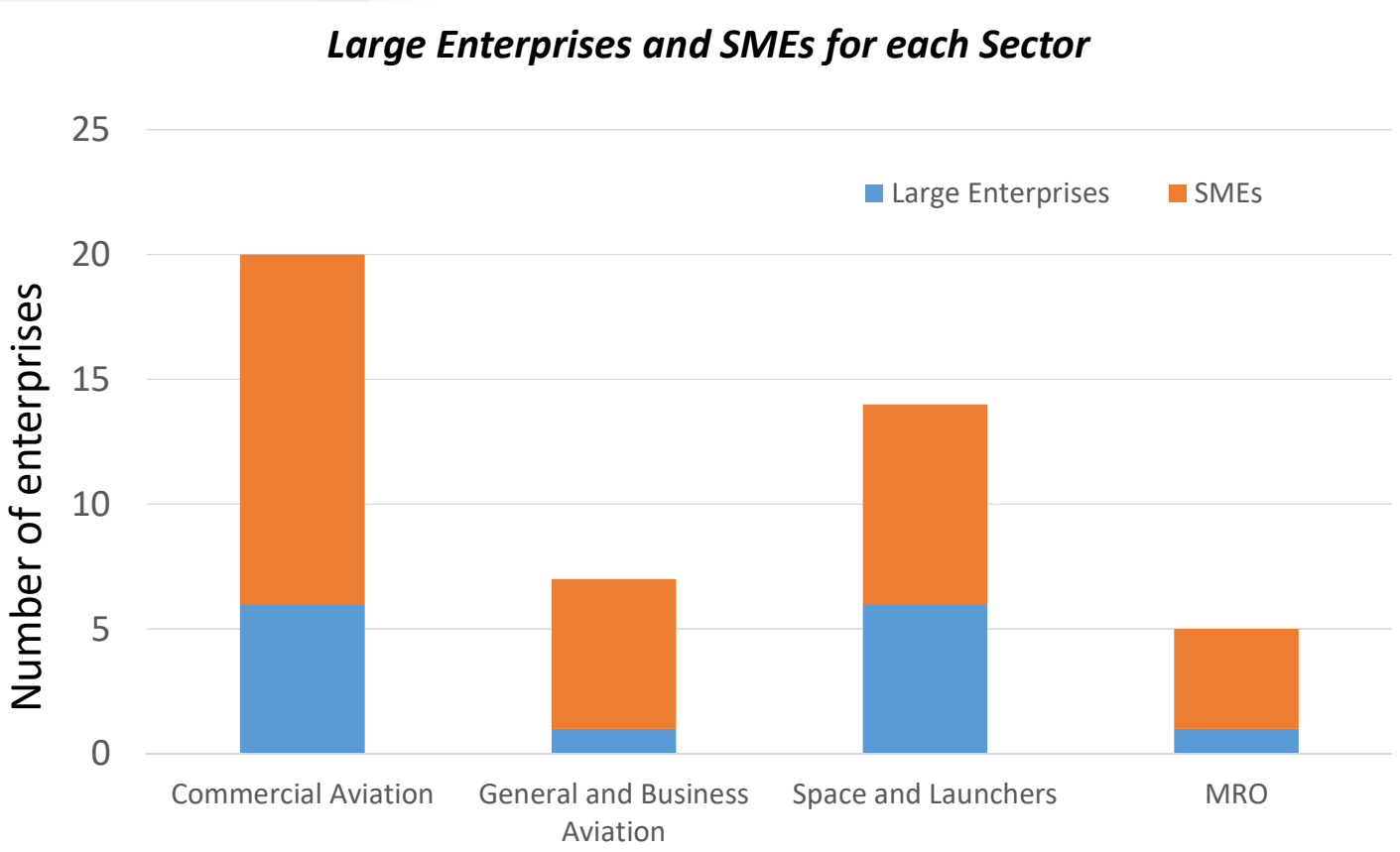
DAC ENTERPRISES – AN OVERVIEW

- **4 different Sectors** are identified in the Aerospace Campania District:
  - **Commercial Aviation**
  - **General and Business Aviation**
  - **Space and Launchers**
  - **Maintenance, Repair and Operations (MRO)**

Enterprises for each DAC sector



DAC ENTERPRISES AT A GLANCE



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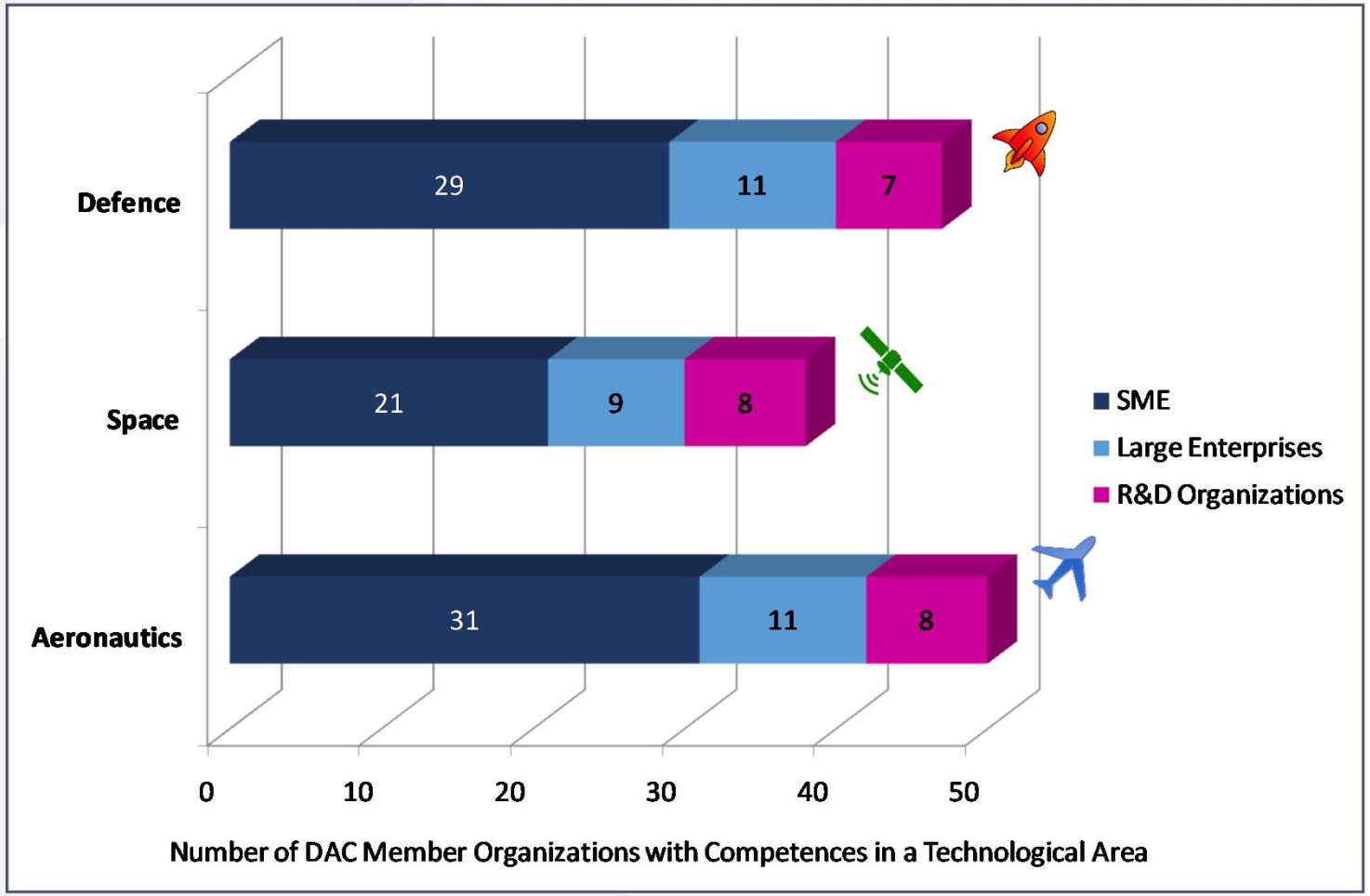

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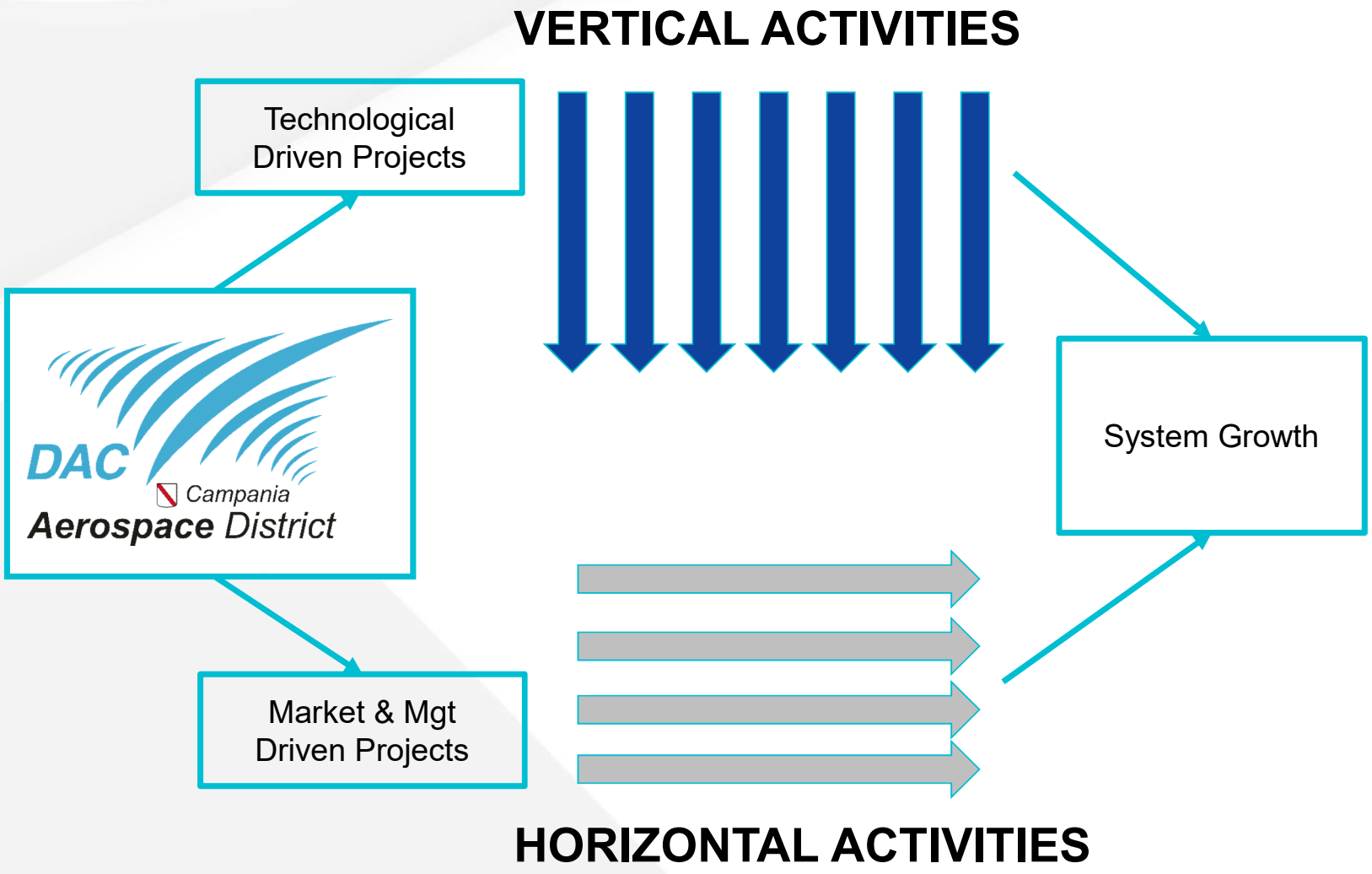
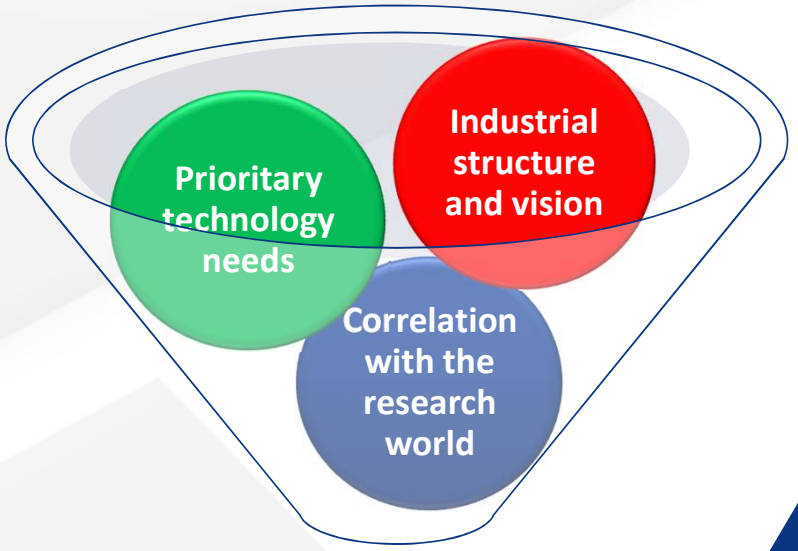
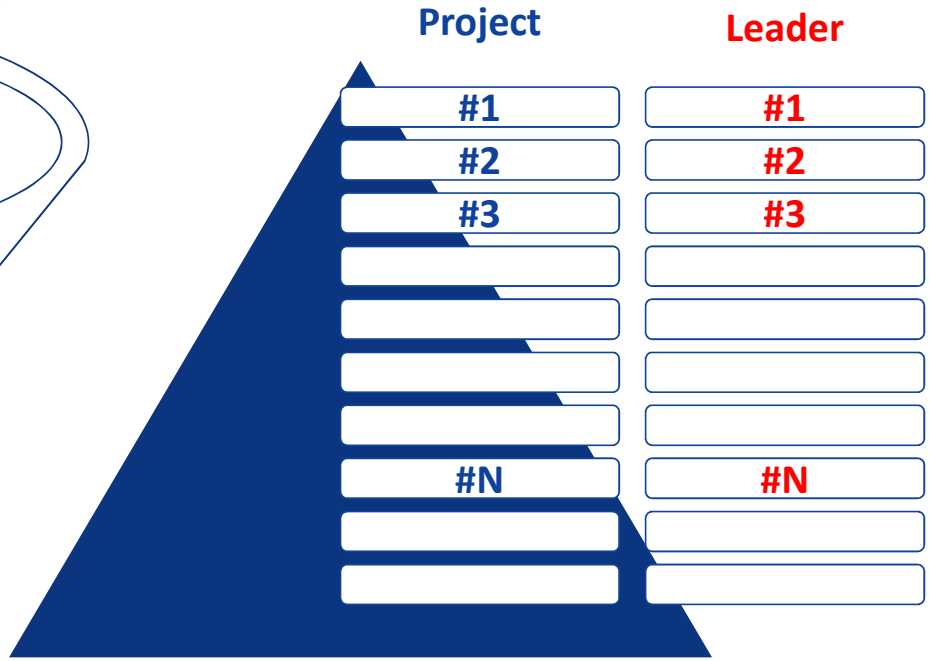
TWO PERSPECTIVES FOR GROWTH



VERTICAL ACTIVITIES – THE DEFINITION OF PROJECTS



Integrated map of needs
(Technology Stream)



From the needs to the strategic programs

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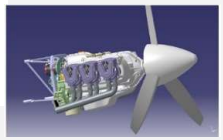
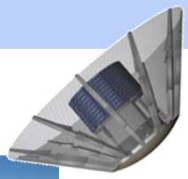
STRATEGIC AND INDUSTRIAL VISION

"industry and market oriented"

REGIONAL AIRCRAFT	BUSINESS & GENERAL AVIATION AIRCRAFT (INCL. RPAS)	MICRO & NANOSATELLITES AND HIGH SPEED SYSTEMS	MAINTENANCE, REPAIR AND OVERHAUL
REGIONAL AIRCRAFTS 19 TO 100 PAX	B&GA AIRCRAFTS 4 TO 19 PAX, INCL. SUPER/HYPERSONIC BUSINESS JET	SYSTEMS & COMPONENTS FOR MINI/MICRO/ NANOSATELLITES AND TRANSPORTATION SYSTEMS (LAUNCHERS, SPACEPLANES)	MAINTENANCE FOR TRADITIONAL AND FUTURE GENERATION SYSTEMS (i.e. SPACEPLANES)
AERONAUTICAL ENGINE SUBSYSTEMS FOR LARGE PASSENGER AIRCRAFT	AUTONOMOUS FLIGHT SYSTEMS AND REMOTELY PILOTED VEHICLES	SPACE APPLICATIONS	
	INNOVATIVE ENGINES (INCL. HYBRID AND ELECTRIC ENGINES) FOR ULTRALIGHT, B&GA, RPAS	SYSTEMS AND COMPONENTS FOR SPACE PROPULSION	
	SYSTEMS AND COMPONENTS FOR HIGHER EFFICIENCY AERONAUTIC PROPULSION	SYSTEMS FOR SPACE EXPLORATION	





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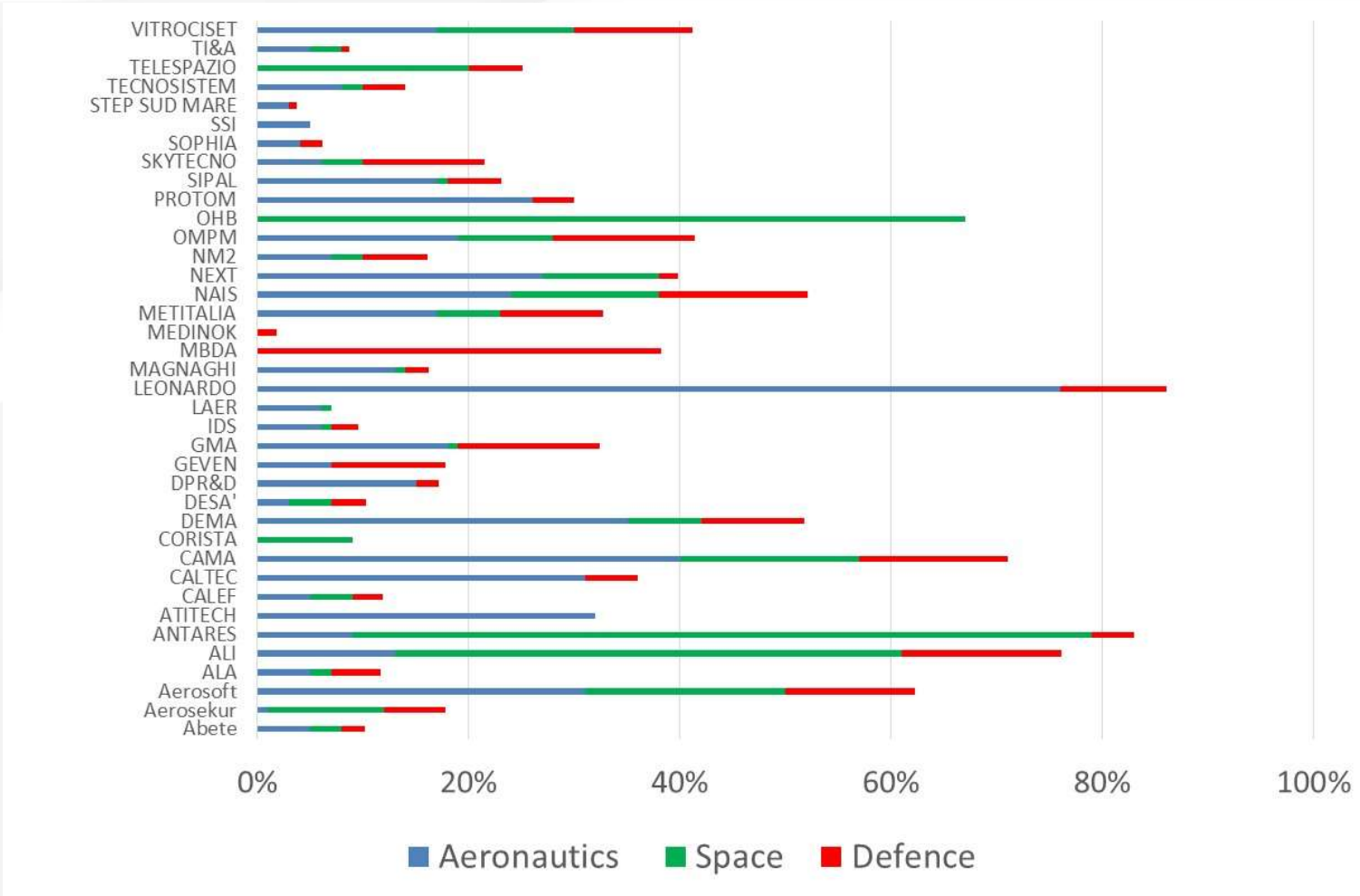
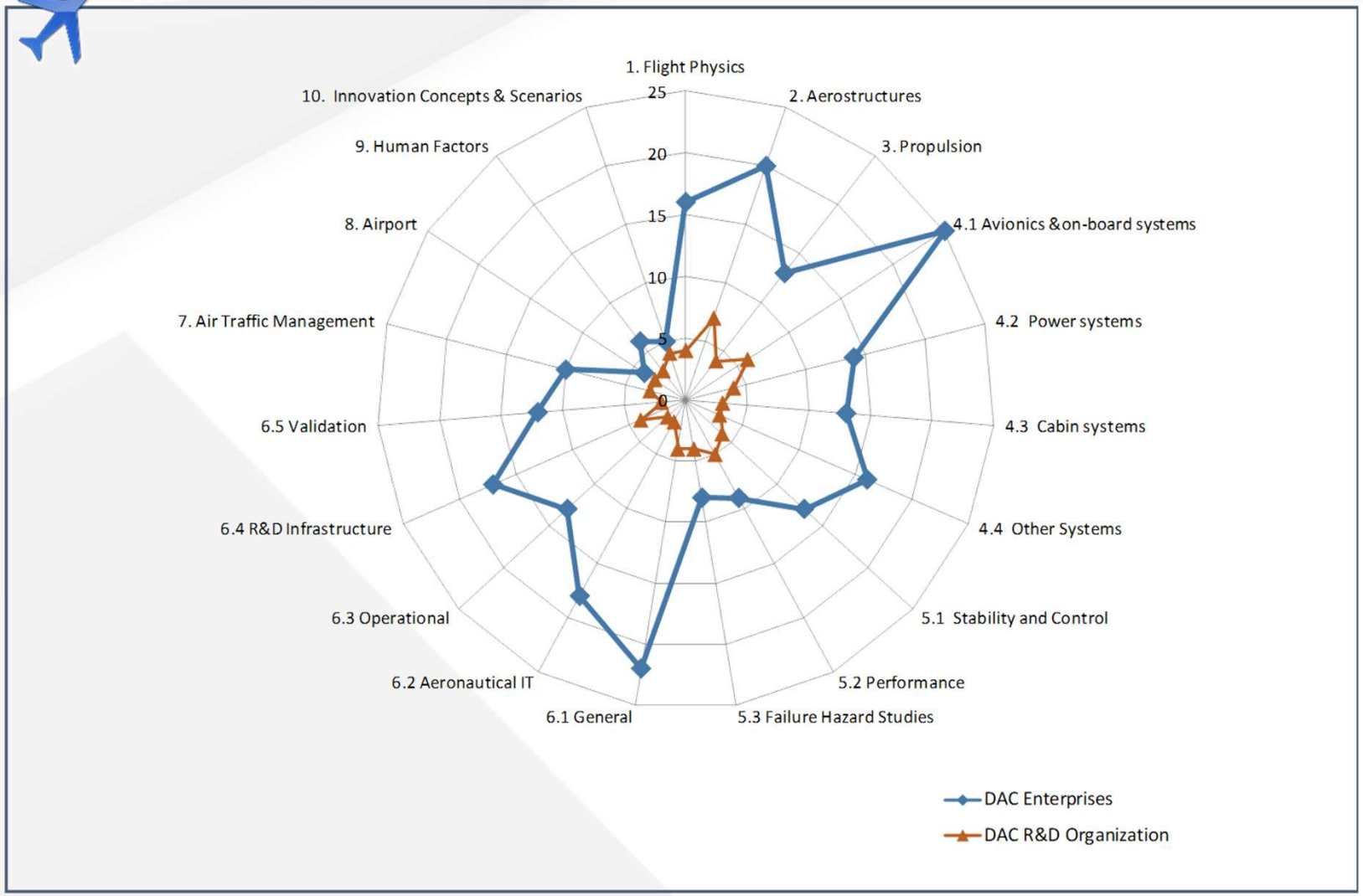
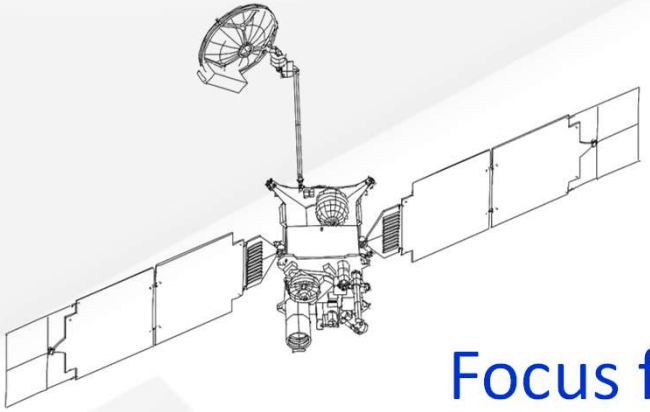
COMPARISON VIEW

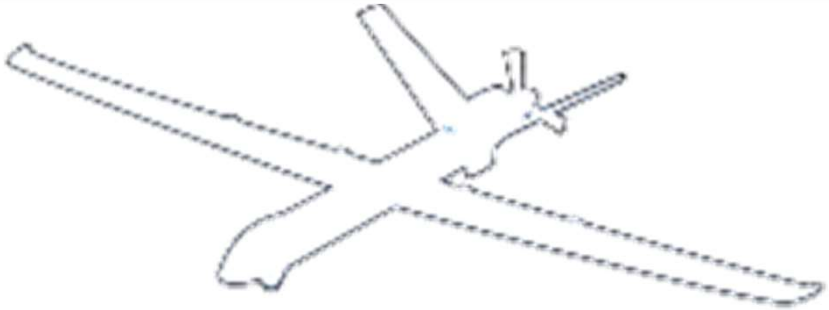


Competences

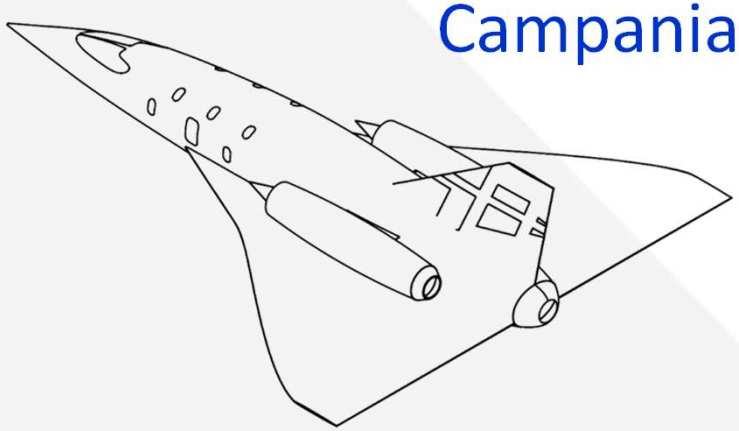


REFERENCE PLATFORMS





Focus for technology innovation interests of DAC members, included in the Campania Region RIS3



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SPACE ECONOMY

- European Space Policy

- National Space Plan

- MOU with ASI

Telecommunication (Ital-GovSatCom)

Earth Observation (Mirror Copernicus)

Global Positioning (Mirror Galileo)

Space Technologies (I-CIOS, incl. suborbital flight)

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TRANSVERSAL ACTIONS WORKING GROUPS

Internalisation and relations with other Districts

- Relations with institutions and cooperation with other Districts;
- Assessment of development topics of international interest;
- Actions for the internationalization and cooperation;
- Know how exchange at international level;

Professional and High Education

- Relationships with Education and Research Centres;
- Supporting the competences assessment;
- Valorisation of human resources;
- Publication of research results on international magazines

Technology Transfer & Communication

- Agreements on Intellectual Property Rights;
- Management of financial and spin off support;
- Applications for patent issues;
- Management of event and communication campaigns

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TRANSVERSAL ACTIONS WORKING GROUPS (CONT'D)

Project & Knowledge Management

- Configuration of project data on a collaborative SW platform (Xmanager);
- Supporting Project Managers in organising and filing project data;
- Management of financial funds and responsibilities;
- Collecting technical and administrative documentation for research proposal filing and project result reporting;
- Preparation of project proposals for co-financing request submittal;
- Planning management by Xmanager;
- Support and assistance for planning, activity progress control and reporting;
- Management of justification document and reports;
- Management of relations with co-financing bodies;
- Coordination and management of the projects both for technical and financial aspects

Dual Use

- Monitoring of potentially dual use technologies;
- Mapping of technological progress for dual use applications;
- Preparation of the documentation suitable to verify and test dual usability

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HORIZONTAL ACTIVITIES (CONT'D) -PROFESSIONAL & HIGH EDUCATION

Within the frame of professional and high education DAC pursues the following objectives:

- ✓ **To become a reference model for the development of competences in the aerospace sector for the School, the University and the Industry;**
- ✓ **To develop a network on the territory for improving the educational offer;**
- ✓ **To valorise the aeronautical professions promoting training activities within advanced environment of aeronautical production;**
- ✓ **To connect the worlds of the School and Enterprises to disseminate know how , competences and capabilities;**
- ✓ **To promote the introduction in the school of courses on the most advanced technologies (e.g. avionics, composite materials, lean manufacturing)**

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CONCLUSION

- The District was established to favour the development of competitive capabilities within the Campania aerospace industry;
- It supports researches lead by industry, with a concrete industrial fall out in order to efficiently catch market opportunities;
- The District works for enhancing the position of the Campania Aerospace world on an global scenario and is strongly looking for possible international cooperation initiatives in the field;
- DAC is actively participating to the EACP initiative to further develop worldwide C2C relationships in the perspective of consolidating our industrial presence in the global aerospace market.

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DAC – CAMPANIA AEROSPACE DISTRICT

THE PRESENT TO DESIGN THE FUTURE

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