

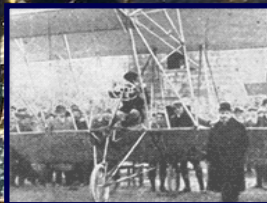


Distretto **Aerospaziale**
 *della Campania*

CAMPANIA AEROSPACE DISTRICT

CAMPANIA AEROSPACE DISTRICT

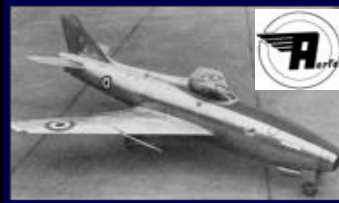
Aeronautics & Space in Campania: a long history.....



**Agusta
"Planeur"**



**Romeo
Ro.1**



**Supersonic fighter
Sagittario**



**Light Twin P-
68**



ATR-42/72



TECNAM - PVOLT

1900



N. Romeo



U. Nobile



A. Crocco



L. G. Napolitano



R. Monti



L. Pascale

2021

166

MEMBERS

32

BIG COMPANIES

119

SMEs & OTHER ENTITIES

15

UNIVERSITIES & RESEARCH CENTERS

166

MEMBERS

32

BIG COMPANIES

119

SMEs & OTHER ENTITIES

15

UNIVERSITIES & RESEARCH CENTERS

SECTORS OF SPECIALIZATION

COMMERCIAL AVIATION

GENERAL AND BUSINESS AVIATION

PROPULSION

MAINTENANCE AND TRANSFORMATION

SPACE AND VECTORS



SECTORS OF SPECIALIZATION

COMMERCIAL AVIATION

GENERAL AND BUSINESS AVIATION

PROPULSION

MAINTENANCE AND TRANSFORMATION

SPACE AND VECTORS



PRESENCE IN THE MARKET CHAIN – examples

OEMs:

**AVIO AERO, LEONARDO, MBDA ITALIA, OHB ITALIA, TECNAM,
THALES ALENIA SPACE ITALIA**

Tier-1/2:

**ABETE, ALI, ALTAIR, BLUE ENG, CALTEC, CMD, CTM AVIO, DEMMA,
GEVEN, MA GROUP, METITALIA, SKYTECNO**

Tier-3/4:

**ARESCOSMOS, AEROSOFT, EMS, ENGITECH, IDS, ITCENTRIC,
LAER, LEAD TECH, MEDINOK, NEXT, OMPM, SAB AEROSPACE, TESI**

SERVICES:

ALA, ATITECH, CADLAND, MBG, PROTOM, TELESPAZIO

DAC TECHNOLOGY DOMAINS

- **Industry 4.0**
- **Integrated Health Management systems**
- **New Generation Smart Interiors**
- **UAV autonomy and integration in ATM**
- **Super-hypersonic Business Jets**
- **New systems for vertical take-off**
- **Microsatellite with deployable and modular system for trajectory management**
- **Air-launch systems for microsatellites**
- **Sensors and applications for Earth Observation**
- **IOV / IOD based on nanosatellite platforms**
- **Collision avoidance radar**

• *not exhaustive list*

ROLE OF DAC

- **The DAC acts as a cohesive element among Large Enterprises, SMEs, Universities, and Research Centers;**
- **The District was established to foster the development of competitive capabilities in the Campania aerospace industry;**
- **The District supports industry-led research that has tangible productive impacts in order to seize greater market opportunities;**
- **The District works to strengthen the position of the Campania aerospace sector in a global context and strongly focuses on potential international cooperation initiatives in the field of aerospace research.**

SME MEMBERS' MAJOR CHALLENGES

- **Production flexibility to quickly comply with changing market situation;**
- **Higher level of automation to answer an increasing pressure to cost containment;**
- **Digitally Integrated Production;**
- **Environmental sustainability of processes**



TRANSVERSAL ACTIVITIES OF DAC

Internalisation and
relations with other
Districts

Professional and
High Education

Project &
Knowledge
Management

Technology
Transfer &
Communication

Dual Use

TECHNOLOGICAL PLATFORMS

HYPERSONIC FLIGHT



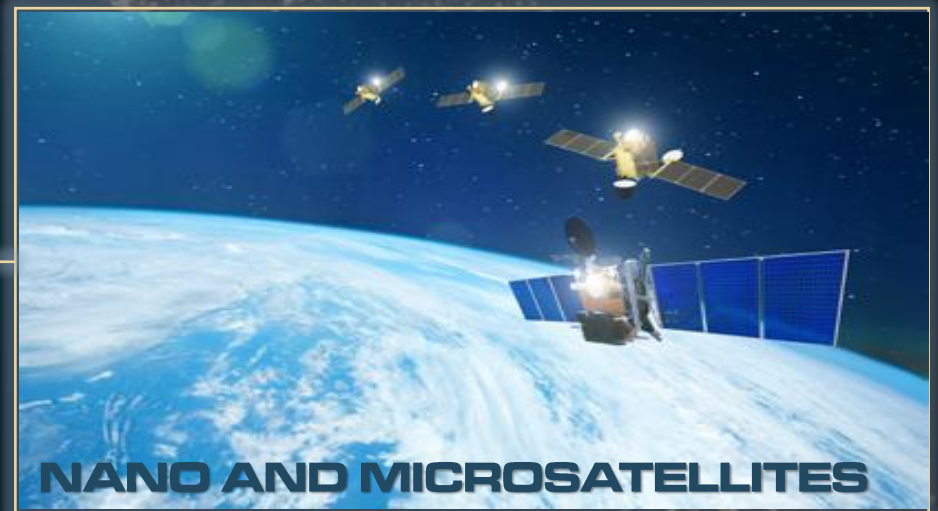
URBAN AIR MOBILITY



DIGITALIZATION



NANO AND MICROSATELLITES



TECHNOLOGICAL PLATFORMS

HYPERSONIC FLIGHT



DEFINE A TECHNOLOGICAL "VISION"
FINALISED TO THE
DEVELOPMENT AND DEPLOYMENT
OF A **HYPERSONIC BUSINESS JET**
INTO THE OPERATIVES SCENARIOS



MACH 4.5
BUSINESS JET CLASS SPACEPLANE
FOR
FAST INTERCONTINENTAL CRUISE
SUBORBITAL POINT-TO-POINT FLIGHT

TECHNOLOGICAL PLATFORMS

URBAN AIR MOBILITY

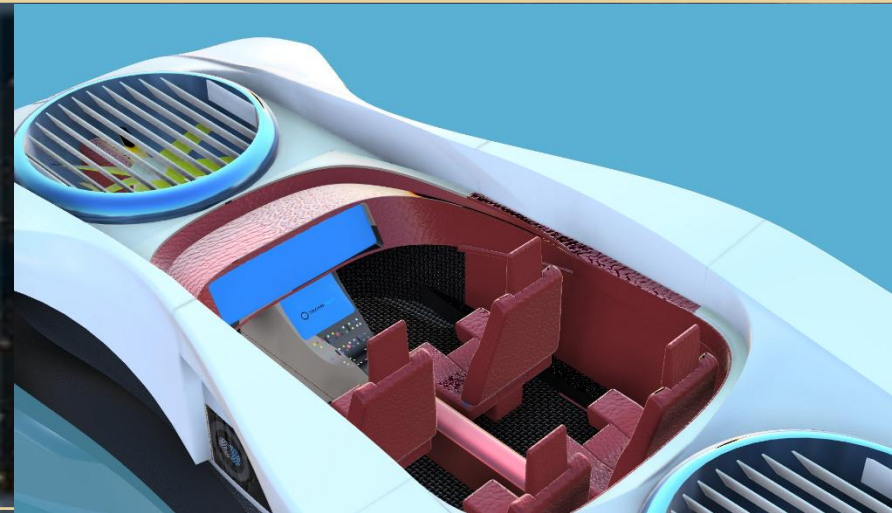


**DEFINE A TECHNOLOGICAL “VISION”
FINALISED TO INTRODUCING
URBAN AND PERIURBAN
AIR TRANSPORTATION OF
PERSONS/GOODS WITHIN THE FRAME
OF URBAN AIR MOBILITY**

DIVA

VERTICAL TAKE-OFF AND LANDING

**BASED ON AN INNOVATIVE VERTICAL
HIGH-DENSITY THRUST ELECTRIC
PROPULSION SYSTEM CONCEPT**



DIGITALIZATION



**SUPPORTING CAMPANIA
AEROSPACE SMEs
IN TECHNOLOGICAL INNOVATION AND
DIGITIZATION OF THEIR PRODUCTS AND
PROCESSES**



**RAISE IN THE SMEs AWARENESS
OF THE NEED FOR THE
AUTOMATION AND DIGITIZATION OF
THEIR PROCESSES TO ANSWER WITH A
DIFFERENT APPROACH TO THE
MARKET OF THE FUTURE**

TECHNOLOGICAL PLATFORMS

NANO AND MICROSATELLITES



**DEFINE A TECHNOLOGICAL "VISION"
FINALISED TO DEVELOP SATELLITE
PRODUCTS/SERVICES FOR
THE **NEW SPACE ECONOMY****



**TECHNOLOGICAL PROJECTS IN
UPSTREAM, DOWNSTREAM, AND
SCIENTIFIC RESEARCH SECTORS FOR
THE DEVELOPMENT OF NEW
PRODUCTS AND SERVICES**

SMARTER, LIGHTER, CLEANER, FAIRER



The ATR 42-600S can operate from around 500 airports worldwide and will help airlines broaden their horizons - a clear example of how aviation can enable more people and even remote communities to benefit from being part of a connected world in a sustainable way.



ATR-42/600S, STOL (80 seats - Short Take-Off and Landing)

TECNAM 2012 PVOLT: Rolls Royce and Tecnam fully electric passenger aircraft. It is expected to enter service in 2026 and meet the needs of regional short-haul transport

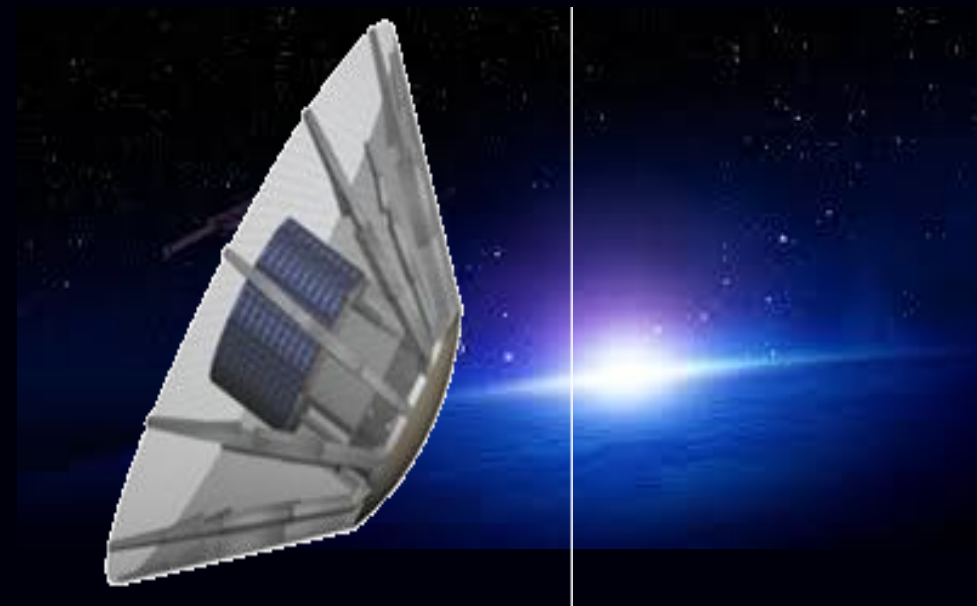


Tecnam P2012 (Passenger, SMP, P-Volt)



Studying and developing technologies. to offer solutions and services to learn about and explore the universe and for a better life on earth

MISTRAL, the 'smart' atmospheric re-entry system for minisatellites, brings payloads and samples back to earth and communicates by «Space Twitter»



PROJECTS / TECHNOLOGIES / PRODUCTS

Sending a probe to Mars by 2027. This is the aim of the SMS - Small Mission to Mars - programme, in which the Aerospace Districts of Campania, DAC, and Sardinia, DASS, work together. Compared to similar programmes, the strengths of SMS are the reliability and cost-effectiveness of the mission.

This is possible thanks to the use of the IRENE opening and thermal protection technology developed and patented by the ALI.





DAC EDUCATIONAL FOCUS

YOUTH IN SPACE

EMPOWERING THE NEXT
GENERATION OF SPACE INNOVATORS



TRAINING

MENTORING

PHD PROGRAMS

HACKATHONS AND CONTESTS

TECHNICAL SUPPORT

DAC

Distretto **Aerospaziale**

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