

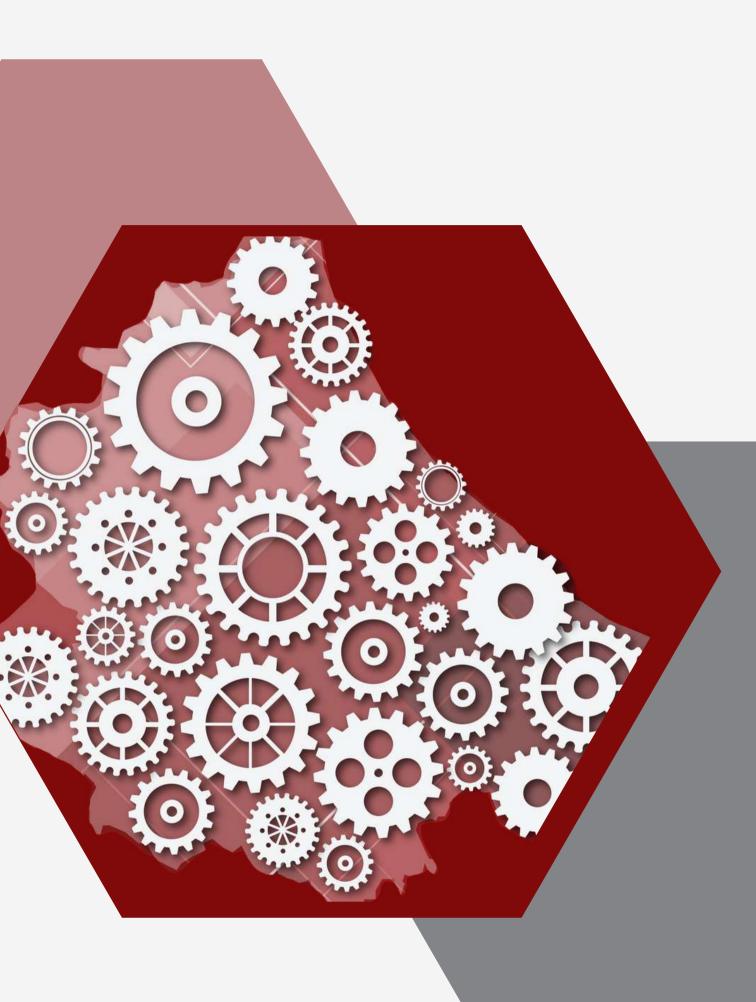
Investing in Abruzzo Automotive: state of the art and opportunities

2024



Fondo Europeo di Sviluppo Regionale





Index

- The Abruzzo regional context
- Accessibility of the territory
- Improvements on territory
- Industrial Hubs
- Automotive innovation programme
- The Automotive Innovation Pole
- Investment incentives
- Automotive Innovation Hub: collaborations
- Contacts

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AUTOMOTIVE: The Abruzzo regional context

ABRUZZO REGION: AN OPPORTUNITY FOR THE AUTOMOTIVE SECTOR

Rich of Opportunities



Green & Welcoming



Industrialized & **Full of Innovation**

Accessible



Green Region of Europe, in the heart of Italy

- Area dedicated to nature is 1/3 of the region
- Offers 3 National parks, a Regional park and Protected reserves
- Gran Sasso mountains (2.912 asl)
- Adriatic Coast: 133 kms

Abruzzo, a region with a strong environmental vocation





Highly industrialised Region

- Industrialisation rate: 27%,
- Higher than the national average

Abruzzo, a region with a strong industrial vocation



ACCESSIBILITY OF THE TERRITORY ABRUZZO: easily accessible from/to all over Europe

÷Œ

AIR CONNECTIONS

- International Airport (Pescara)
- Ryanair's hub
- 15 destinations (2023)



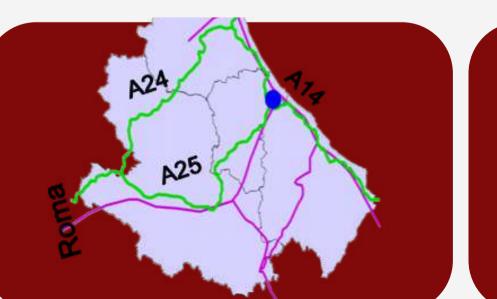
- A14 (Bologna à Taranto)
- A24 & A25 (Abruzzo -Rome)



• North - South (Bologna -

- Lecce)
- East West (Crossing Sangro Valley)







RAILWAYS



- Ortona
- Vasto

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ABRUZZO: easily accessible connections even by train with Northern Italy and Europe

Trans European Network Transport





ACCESSIBILITY OF THE TERRITORY ABRUZZO: easily accessible

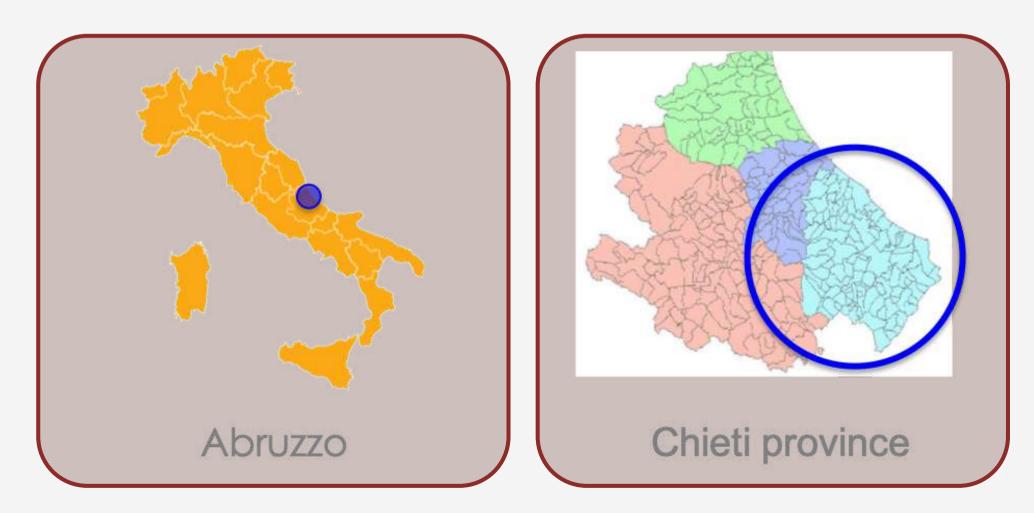
connections also to the port of Salerno



Adriatic-Tirreno road link: 4-hour journey time



ACCESSIBILITY OF THE TERRITORY VAL DI SANGRO IN THE ABRUZZO REGION



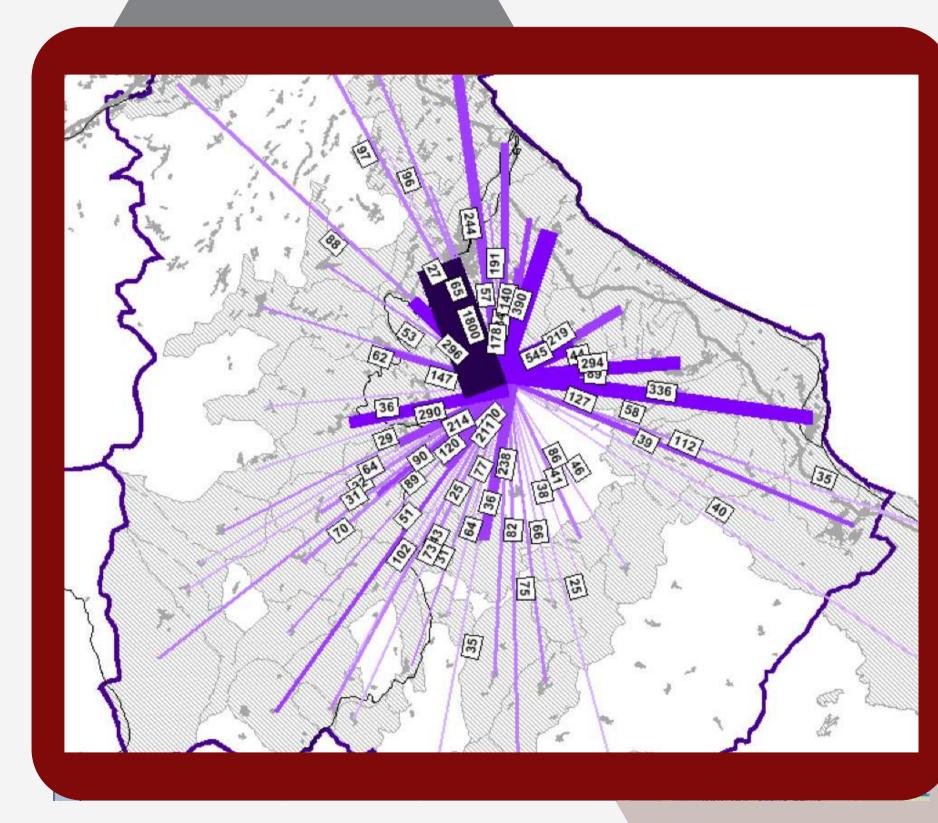


Val di Sangro

ROMA



ACCESSIBILITY OF THE TERRITORY **EFFECTIVE AND EFFICIENT PUBLIC CONNECTIONS FOR WORKERS TO** THE INDUSTRIAL AREA OF THE VAL **DI SANGRO**







IMPROVEMENTS ON TERRITORY: Ongoing actions



TRANSPORTS & LOGISTICS

ROAD SYSTEM

- Budget: 214 MiO/€
- Surfaces improvement

PASSENGER	
TRANSPORT	

RAIL

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ENERGY

ENERGY SUPPLY

Actions have been taken : a. development of renewable energy sources

"FONDOVALLE SANGRO" CONSTRUCTION: Tender: closed assigned to the company "De Santis", Rome

Activity : ongoing and will end in 2025

"CIRCULAR ROAD" CONSTRUCTION (industrial area): Activity VAL DI SANGRO INDUSTRIAL DISTRICT: improvement of the ro

Ordinary and extraordinary maintenance of roads (lighting, guard rails, vertical signs, etc.)

OPTIMIZATION OF FLOWS to industrial areas to solve congestic ELECTRIFICATION OF THE RAILWAY line from/to the industrial to extend service to people (already completed).

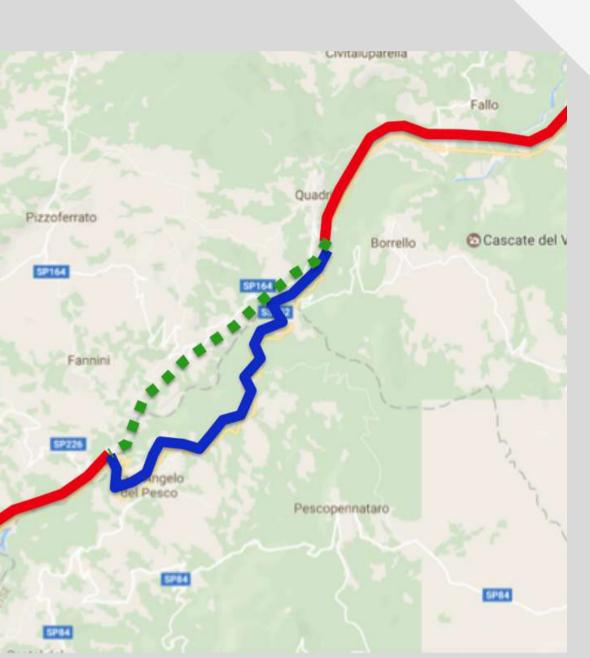
ANGE AT FOSSACESIA/TORINO DI SANGRO railv speed up the arrival and departure of products transported UPGRADE OF THE SALETTI VAL DI SANGRO FREIGHT PLATFORM



IMPROVEMENTS ON TERRITORY: Sangro freeway

The completion of the Sangro highway (the estimated cost of which is approximately 214 Meuro) is in the tender process. The entry into operation is scheduled for 2025





SS 652 Fondovalle Sangro Track to be completed (3,8 km)



IMPROVEMENTS ON TERRITORY: Freight transport service of Sangritana

- Conventional Services
- Intermodal Services
- Shunting services and Assets
- Customized Services
- All-Inclusive Railway Planning TtT (terminal to terminal)
- Completion of DtT, TtD and DtD (Door to Terminal, Terminal to Door and Door to Door) services
- Train loading and unloading management
- Wagon sourcing
- UTI rental





IMPROVEMENTS ON TERRITORY: Logistics platform Saletti-Fossacesia

- Funding for the production area of Saletti, in Paglieta
- A railway logistics platform in which two more tracks are planned to the threealready existing
- It will be used to transport goods to and from the industries.
- It will become essential for connections between the south and north of Italy
- Capable of accommodating 750-metre trains, functional for the logistics of the industrial hub of Val di Sangro towards the Mediterranean and Europe.



Loreto prutino



IMPROVEMENTS ON TERRITORY: Implementation of the renewable energy supply chain

- New initiatives promoted by the Regional Agency for Productive Activities (Arap), intended to manage every project in renewable energy
- The mission of "ARAP ENERGIA" will be focused on the production of renewable energy, from photovoltaic to wind, from hydroelectric to hydrogen





IMPROVEMENTS ON TERRITORY: Experimental hydrogen production plant

- In Abruzzo, three hydrogen production plants will be financed with funds from the Pnrr.
- They will be financed for an amount of 20,131,496 euros.
- Among them, the project of Arap, the regional company for production activities



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Automotive supply chain



Sector: Automotive and mechanical engineering

23.000

People

(o/w 85% in Chiefi

district)

8%

Of the Exports

Includes: Sub-suppliers, component manufacturers and engineering companies

€8 billion Turnover

Industrialisation rate: (Higher than the national

27%

average)

13% **GDP** industry of Abruzzo Region

Production chain



Group of globalized companies, large enterprises and SMEs

Automotive and mechanics

In addition to the car industry, it includes subcontracting and components

Stellantis Europe Spa Atessa suppliers: 660 companies, of which 50 installed in Abruzzo

PEOPLE : 11.000 employees, of which 5.500 Stellantis Atessa

43 companies, of which 19 installed in Abruzzo

PEOPLE :

1.700 employees in Abruzzo, of which 900 Honda Atessa plant



TECHNOLOGICAL EXCELLENCE OF OTHER COMPANIES



Electric engines



Production of molds, cold-hot forming and new materials



Light commercial vehicle outfitting





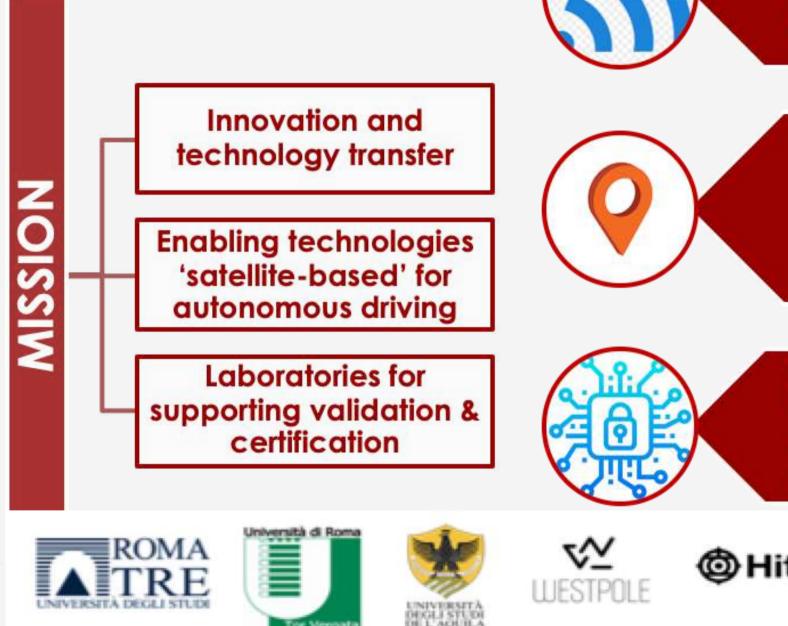


PEOPLE: 10.000 employees in Abruzzo

Production of molds and cold-hot forming

Other Industrial hub: UNIVERSITY OF L'AQUILA AND RADIOLABS

Contribution to the realization of technological roadmaps and the creation of an industrial research community inclusive of new skills to grasp the unprecedent transformation facing the transport sector



PEOPLE : high skilled resources First European Laboratory for validating geo-localization technologies

COMMUNICATIONS

- 5G 6G Satellite
- FRMCS V2X
- Intelligence Defined Networks

GEO LOCALIZATION

- High Accuracy High Integrity Applications
- Multi sensors and Hybrid systems
- INDOOR

CYBER SECURITY

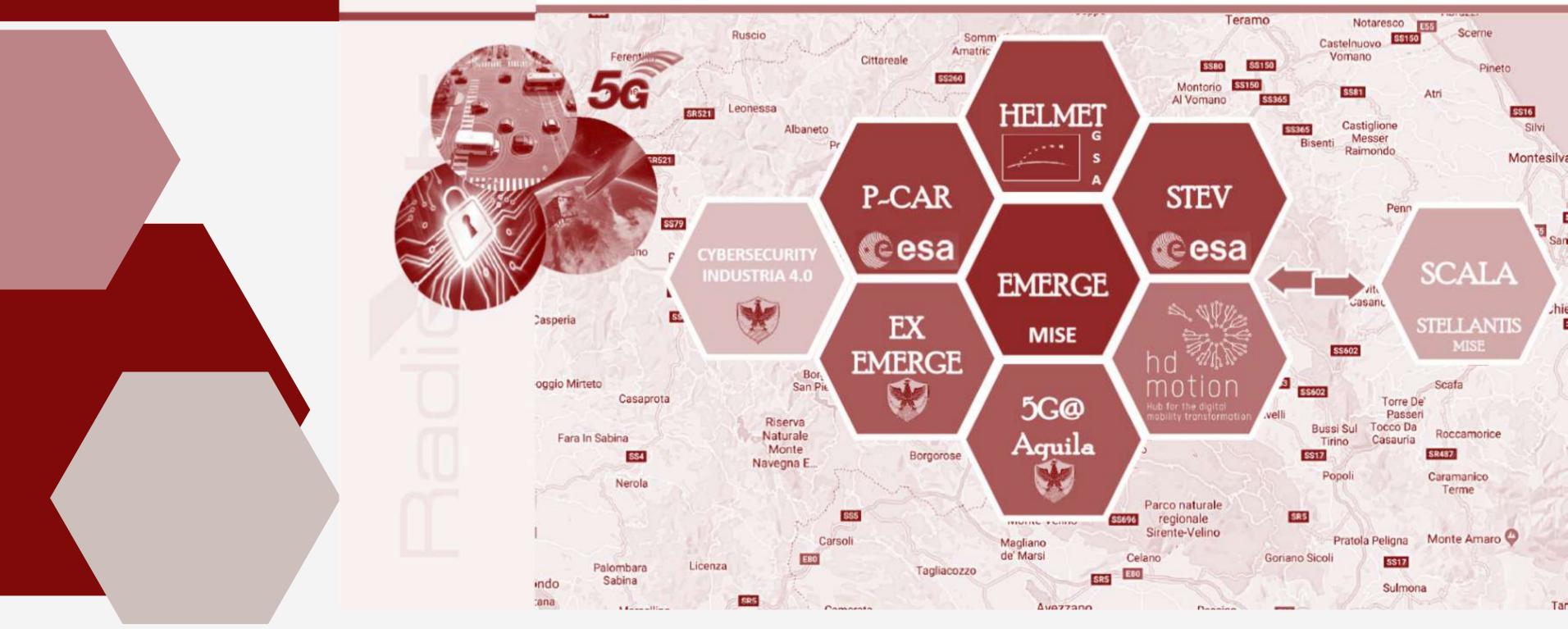
- Secure communications
- Resilient GNSS signal processing
- Intelligent defined security

Hitachi Rail STS



European Hub satellite-based technology



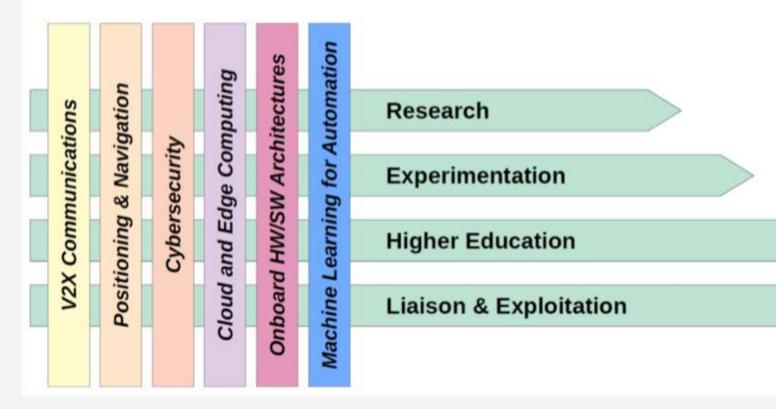


+ 10 M€ R&D projects

Automotive INITIATIVES in Abruzzo

University of L'Aquila **Centre of Excellence (Ex Emerge)**

Centre of EXcellence (EX) on Connected, Geolocalized and Cybersecure vehicles (EX-EMERGE)

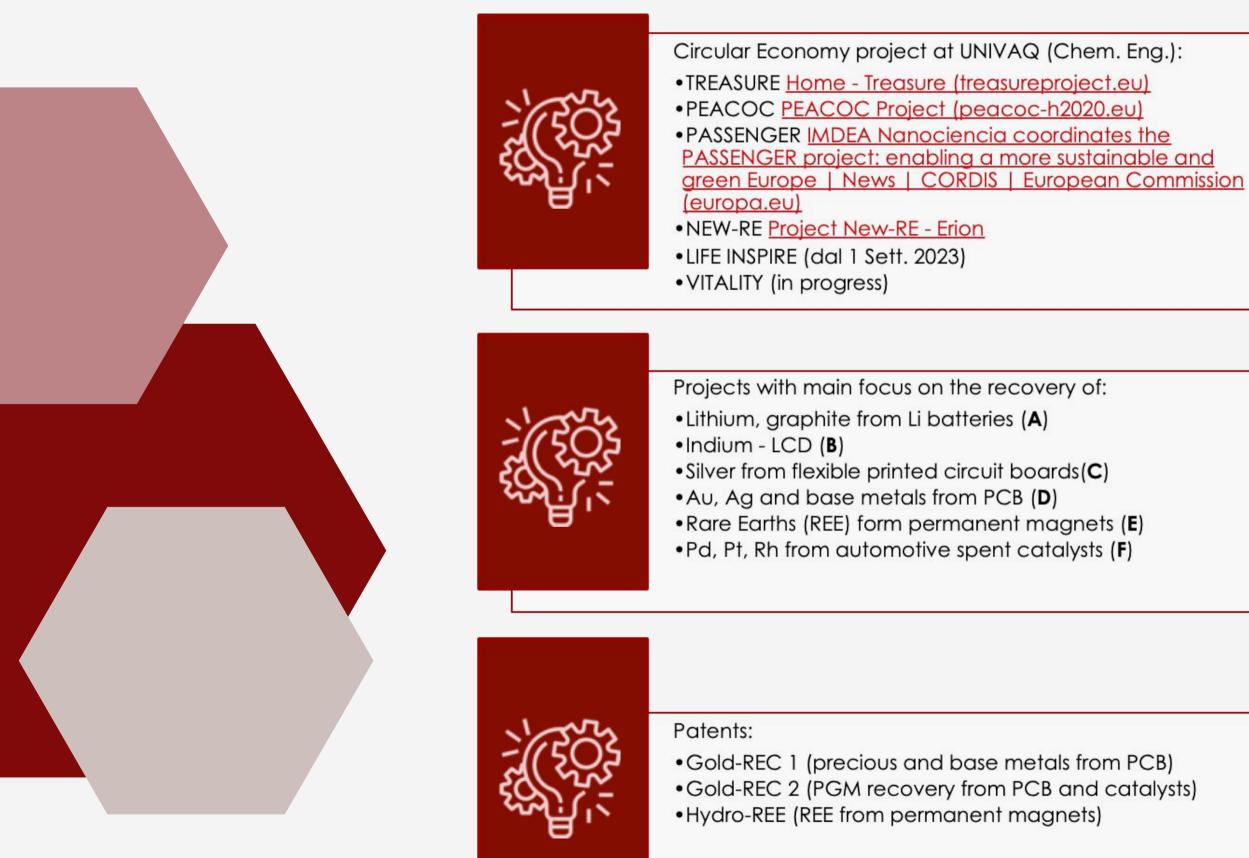


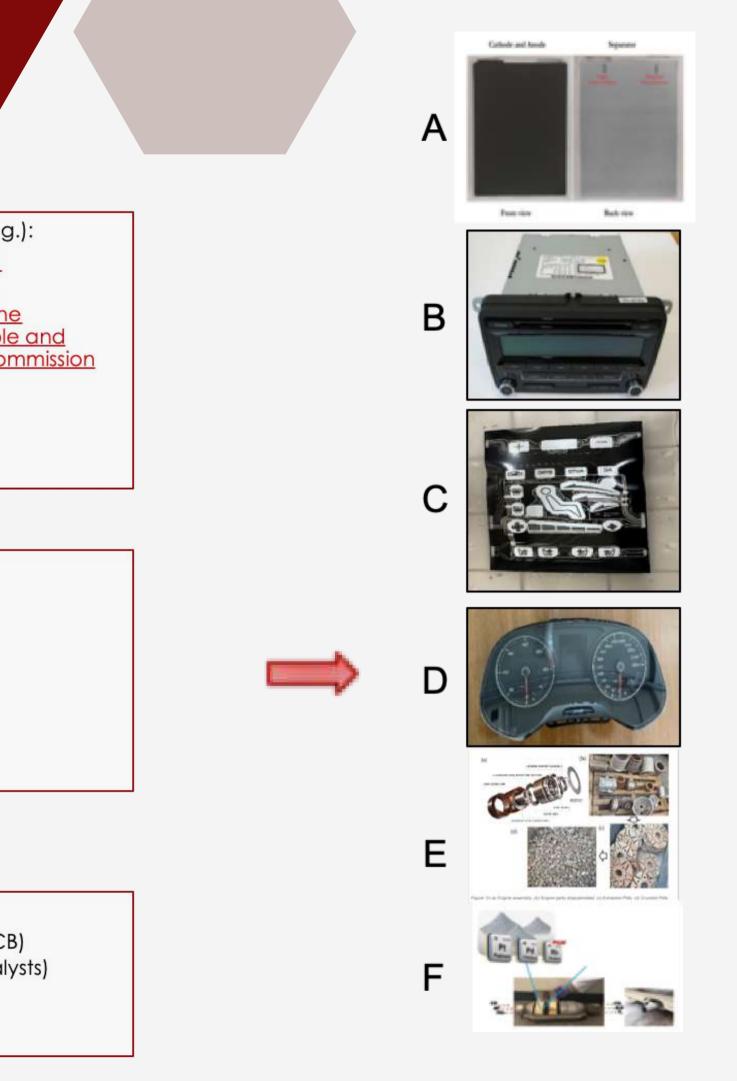






Other Industrial hub: UNIVERSITY OF L'AQUILA AND RADIOLABS





University of L'Aquila Laboratory of Electrical Engineering

Power Converters, Electrical Machines and Electrical Drives, Power and Energy Measurements, Characterization and Testing of Components and Systems, for Automotive and Aerospace Industry.



ing.elettrica@univaq.it

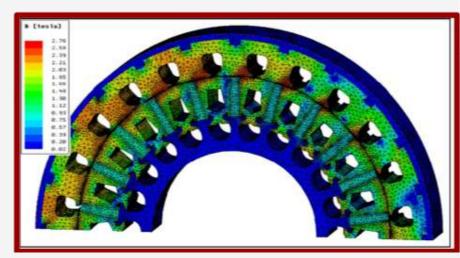


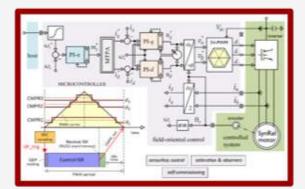
Induction motors (aluminum or copper rotor)

PM Synchronous motors

Reluctance Synchronous motors

Switched Reluctance motors







- R&D on electrical drives for automotive and aerospace applications featuring SiC technology and modular architecture:
 - Modelling and simulation;
 - HW architecture definition;
 - Sizing and selection of electronic components;
 - Electrical machines integration.
- Mathematical model of the electrical machines
 - Optimum motor control algorithm;
- HW-SW integration and real-time control systems
- Algorithm for sensorless and self commissioning









University of L'Aquila ENGINES/ENERGY: EXPERIMENTAL FACILITIES Prototypes & testing labs

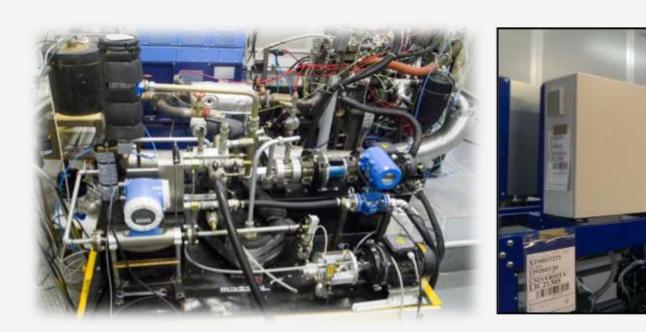


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University of L'Aquila ENGINES/ENERGY: EXPERIMENTAL FACILITIES Prototypes & testing labs























AUTOMOTIV INNOVATION PROGRAMME

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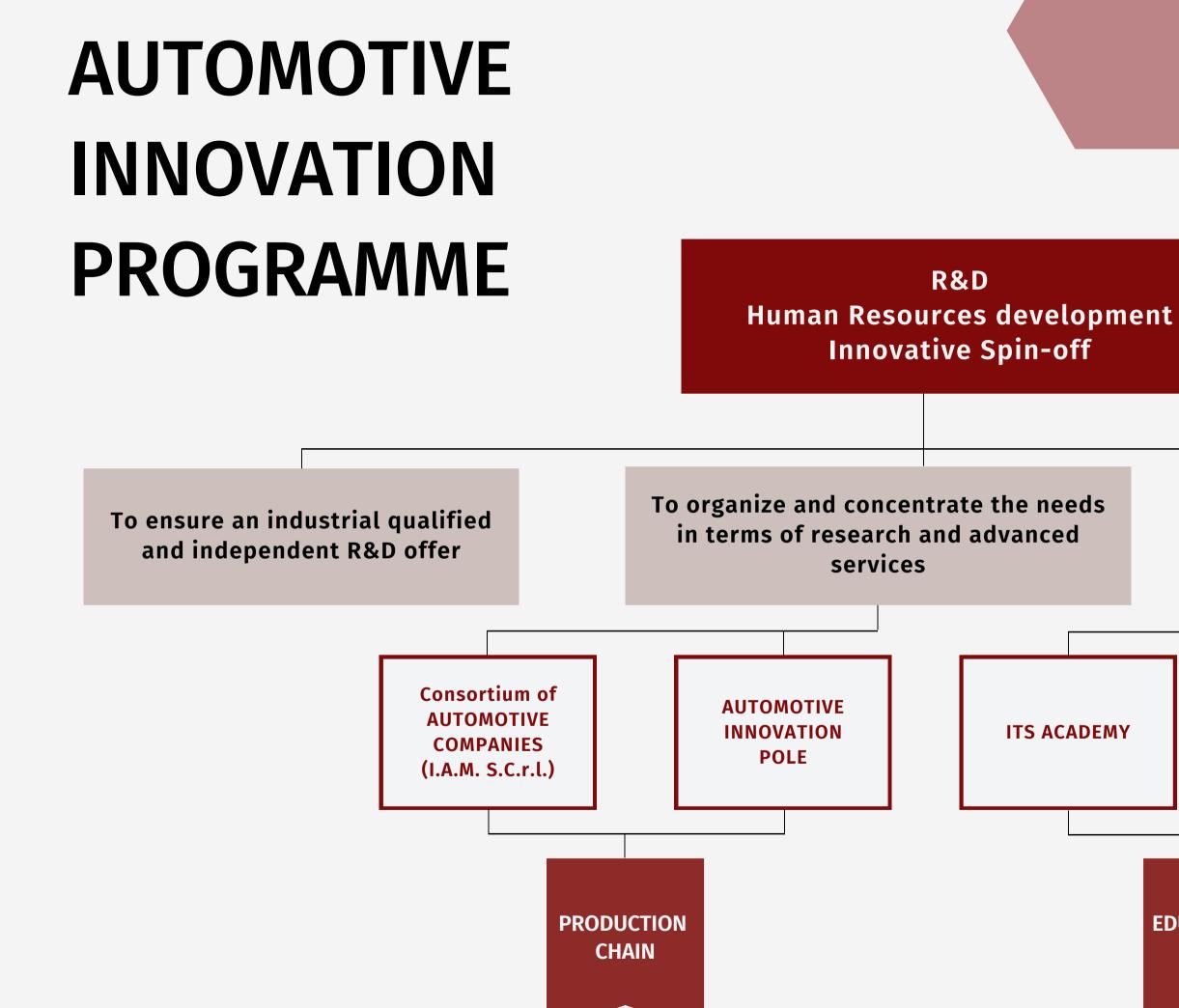
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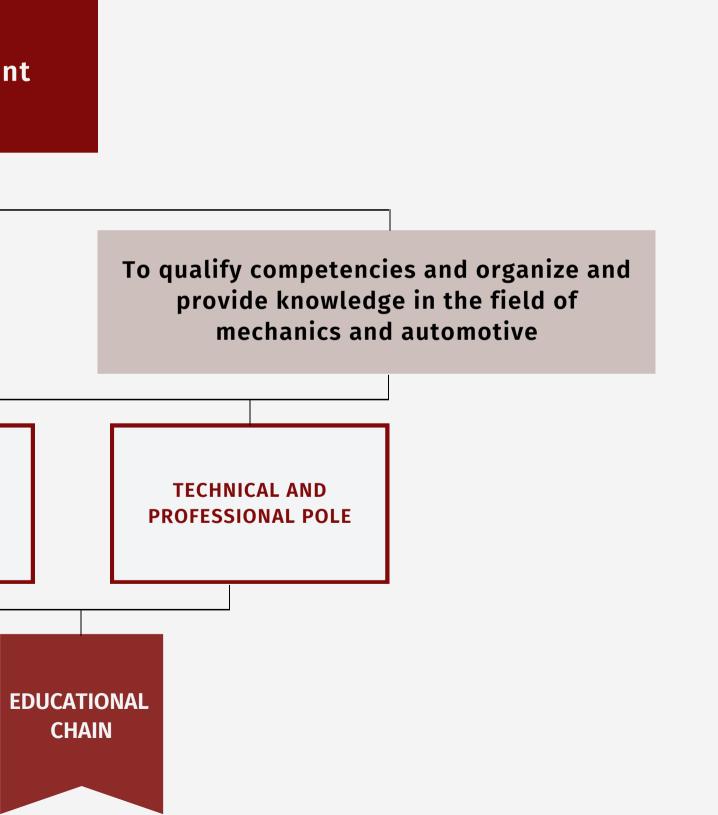
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From dependence to COLLABORATION...





THE AUTOMOTIVE INNOVATION POLE

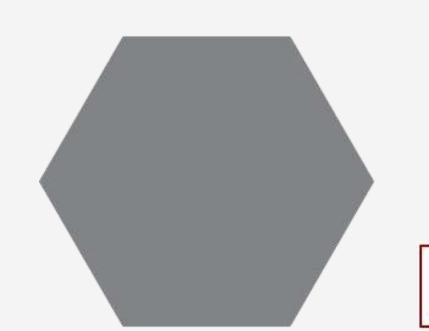


AUTOMOTIVE INNOVATION HUB: A LONG HISTORY



2008

About 50 COMPANIES	1.11
of which most in Abruzzo	1





to TECHNOLOGY TRANSFER, NETWORKING and to spread INFORMATION among them.

- Develop an Automotive System related to the LCVs
- Increase Skills and improve the spread of Knowledge
- Consolidate internationalized Companies through innovation, flexibility and quality of products, systems and processes
- Support Interaction and Synergies between different industrial sectors
- Consolidate and strengthen Supply Chain to improve competitiveness
- Support Cooperative research
- Provide Assistance to the company
- Facilitate relations with Institutions



2024



AUTOMOTIVE INNOVATION POLE

Innovation Pole are foreseen by the European Community (2006/C 323/01). A Pole is a clustering of independent enterprises (SMEs, LEs and research bodies, start up) active in a particular sector.

MISSION

Encourage the interaction between the different actors, the mutual exchange of knowledge and experiences, as well to contribute to the technological transfer, networking and dissemination of information

PARTNER

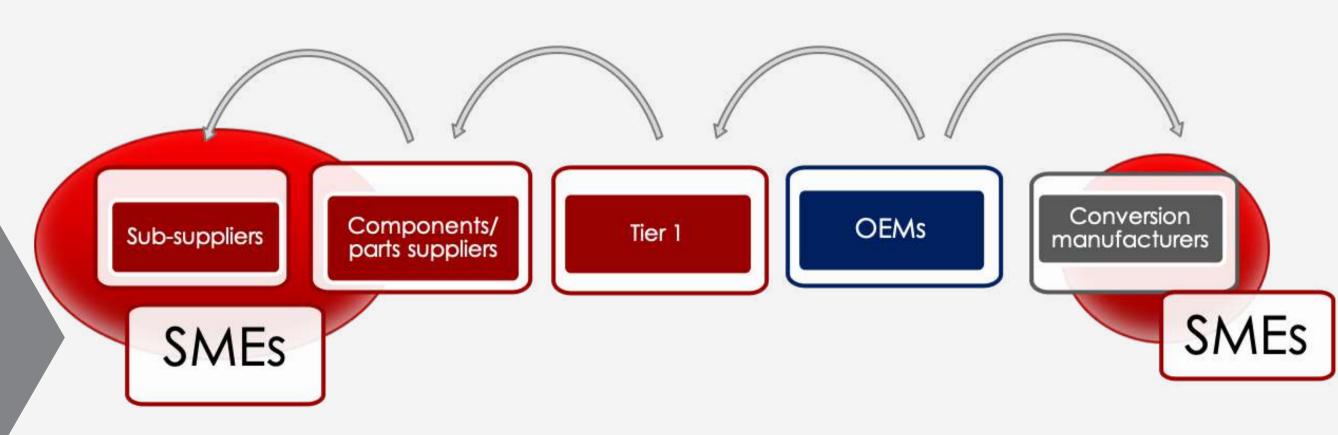
About 50 partners including enterprises of different sizes as well as research centres, the Engineering Department of the University of L'Aquila, ect.

Abruzzo Region (Operational headquarters)		
IND	Large enterprise	11
ME	Medium enterprise	7
SE	Small enterprise	19
SES	Service provider	8
UNI	University	1
Other regions		6
IND	Large enterprise	4
ME	Medium enterprise	2
Total		52



SUPPLY CHAIN AND PARTNERS





BOARD OF DIRECTORS

Roberto Cipollone UNIVAQ





President of BofD

Francesco Marfisi TECNOMEC SUD

Enrico Pisino CIM 4.0

Paolo Raschiatore VISION DEVICE

Marcello Vinciguerra HONDA ITALIA INDUSTRIALE







Giuseppe Ranalli

TECNOMATIC

Vice President

Maria Onida STELLANTIS

TECHNICAL STAFF



Raffaele Trivilino DIRECTOR

Roberta Stella ADMINISTRATION MANAGER

Federica Rossetti R&D PROJECT MANAGER

Daniela Di Cecco COMMUNICATION MANAGER



RESEARCH AND DEVELOPMENT AREAS 2022-27 (GREEN - SMART- INTERCONNECTED):

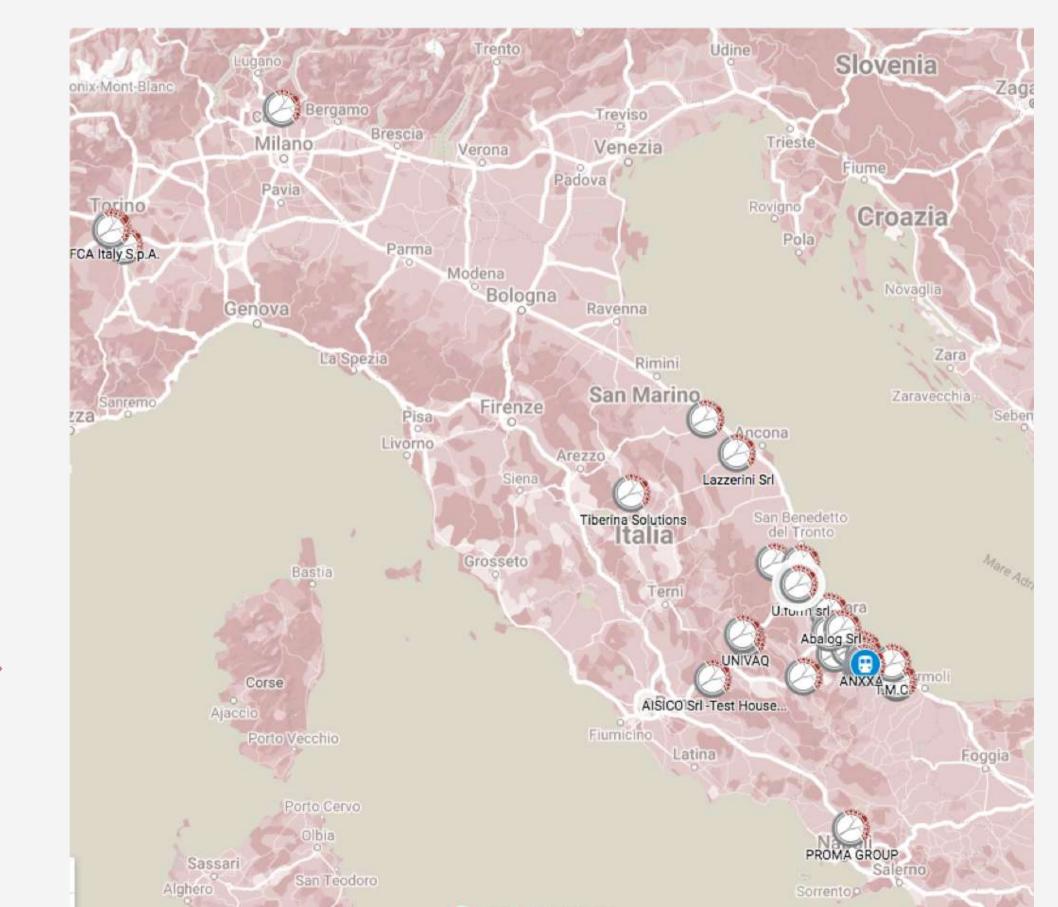


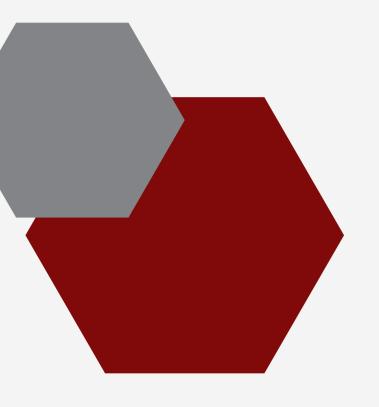


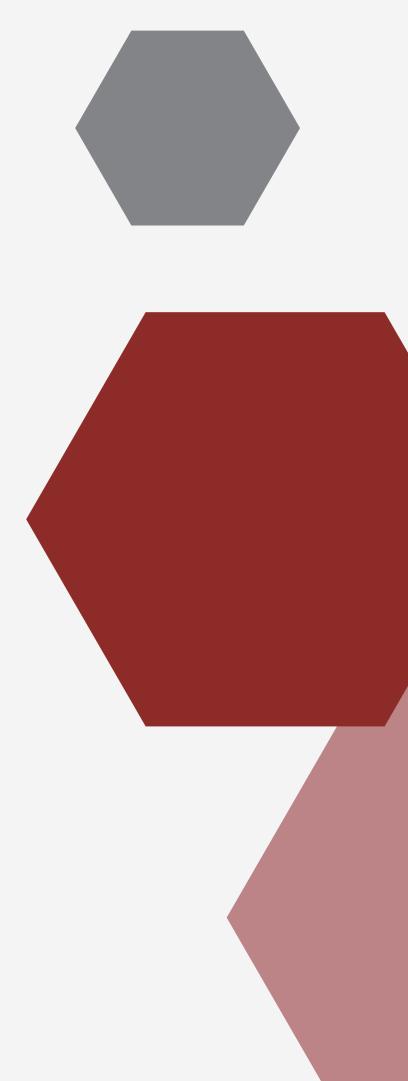
Connected vehicle, self driving and driver assistance



AUTOMOTIVE INNOVATION POLE Partner geolocation - italy







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OPPORTUNITIES FOR PUBLIC FUNDING OF INVESTMENTS AND R&D

Regulatory references

Development Contract (special areas 107.3.C)

It is an agreement between the Ministry of Enterprises and Made in Italy Investment grants of up to 30% for small (MIMIT), the Italian agency in charge of incentives, Invitalia, and one enterprises, 20% for medium-sized ("lead") or more ("other") companies implementing investments in enterprises and 15% for large enterprises. manufacturing, environmental protection or energy efficiency projects.

- Incentives are available for companies implementing projects to:
- set-up a new manufacturing plant (greenfield);
- expand an existing one (expansion);
- diversify the existing production by developing new products (co- investments of up to 35%. location);
- change the production process of an existing production unit Incentive for Research and development (modernization).

The total minimum investment required is $\in 20$ million, excluding the infrastructure expenses.

Aid to large enterprises may be granted only for initial investment in a new economic activity in the area concerned; environmental protection (including energy efficiency) measures are eligible.

The contract can also be activated through the Programme Agreement, whose procedure can be used for investments that have a significant impact on the territory's competitiveness exceeding 50 million of investment

Incentives

Environmental investment grant of up to 45%.

Incentive for energy efficiency

ranging from 25% to 50% depending on the type of activity.



OPPORTUNITIES FOR PUBLIC FUNDING OF INVESTMENTS AND R&D

Regulatory references

Tax credit for investments (special areas 107.3.C and ZES)

Incentives for worker training to be defined according to specific needs

Incentives for Research and development

Incentives Maximum incentive of 30 per cent for small businesses (max. 3 million 10 businesses (max. million expenses), and 15 per cent for large businesses (max. 15 million expenses) Incentive for Research and development ranging from 25% to 50% depending on the type of activity.



OPPORTUNITIES FOR SIMPLIFICATION SYSTEM IN ZES AREA

Administrative & logistic simplifications

- Reduced timeframe for obtaining benefits and permissions Strengthening of the infrastructure network
- Possibility of establishing duty-free zones



ITS ACADEMY



Two-years course with final Diploma

4 semesters (1800 hours)

About the 30% of the total hours amount spent into a company

50% of teacher coming from industrial world

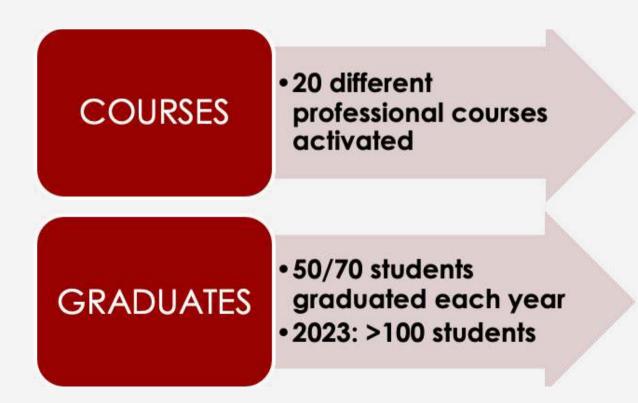
Immediate assignment of each student to the reference company

PLACEMENT



within a year of high school diploma







ITS ACADEMY

ACADEMY ACTIVITIES (also in collaboration with GI) Mixed structured training (even longterm) between professional skills and soft skills aimed at company personnel



the world of work)



In attendance



Requalification - reskilling (variable duration, with mainly professionalizing contents and purposes; aimed at retraining existing personnel for new tasks, unemployed and drop-outs for reintegration into

Up-skilling (short duration; aimed at updating skills to stay in line with

Strengthening of key skills (Digital Skills, Soft Skills: effective communication, project management, problem solving, etc.)

> Remotely (elearning platform)



Mixed mode

THE NATIONAL CLUSTER: Means and systems for road and sea mobility



Cluster Trasporti

The Transportation 2020 Cluster has the main goal of creating a network between the different supply chains operating in the road, sea and rail transportation industry:

Guidelines and new systematic approaches focused on The recovery of competitiveness of «Made in Italy» solutions

The Cluster will foster the strategies which aim at enhance complementarities facilitate solutions to common problems expand the supply chain network following an intermodality approach

> European strategic vision and roadmap

MOVING PEOPLE AND GOODS IN A ECO-FRIENDLY, ECONOMIC, **ERGONOMIC**, SAFE AND INTERCONNECTED WAY

COMPETENCE CENTER «CYBER 4.0» The Automotive Innovation POLE (IAM) is among the members of Cyber 4.0



- wasbornwithin the University of Rome La Sapienza.
- Plan.
- managers involved.

• The Cyber 4.0 Competence Center isdedicated to Cyber Security;

• It is one of the 8 Italian projects that have been recognized by the Ministry of Economic Development for whatisone of the most qualifying objectives of the strategic activities of the Industry 4.0

• It provides for an investment of around 15 million euros, 9 of which are dedicated to training and orientation activities; 37 private entities involved, together with all the universities of Lazio, leader of the La Sapienza project, and that of L'Aquila, but also to the CNR and INAIL; 150 professors, researchers and

EDIH - EUROPEAN DIGITAL INNOVATION HUB IAM is among the proponents of the "European Digital Innovation Hub Abruzzo and Molise -**EDIH AMo**"



- The Edih is made up of a team of 23 subjects.
- The challenge consists in facilitating the access for companies to the world of Industry 4.0 because it provides them, directly or through selected partners, services to introduce 4.0 technologies and develop digital transformation projects.

ECOSYSTEM OF INNOVATION "VITALITY"

- The Ministry of University and Research, as part of the National Recovery and Resilience Plan (PNRR), finances the creation of innovation ecosystems throughout the country. The innovation ecosystems are networks of universities, public research bodies (EPR), other highly qualified and internationally recognized public and private entities. Their activities are linked to higher education, applied research, innovation, on specific technological areas, defined on the basis of the specialization of the territory.
- The Automotive Innovation Pole joined the proposal. There are opportunities for automotive companies

CONTACTS WEB-SOCIAL COMMUNICATION

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