

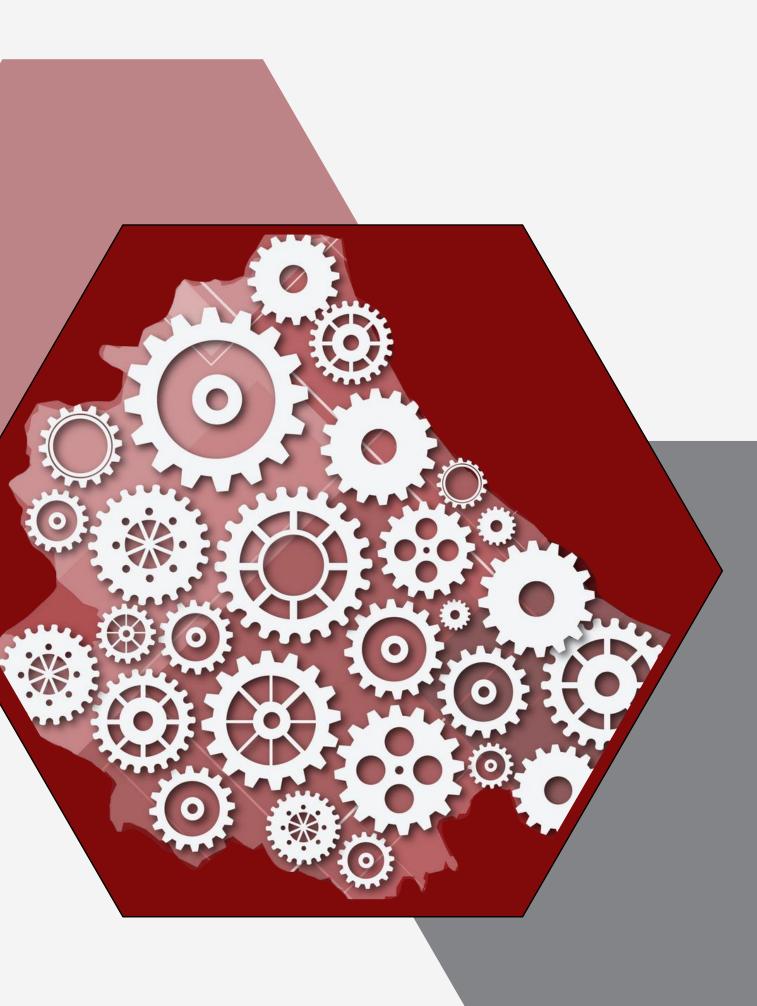
Investing in Abruzzo Automotive: state of the art and opportunities

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

----AUTOMOTIVE: ----The Abruzzo regional context 周日 No Deserve

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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)



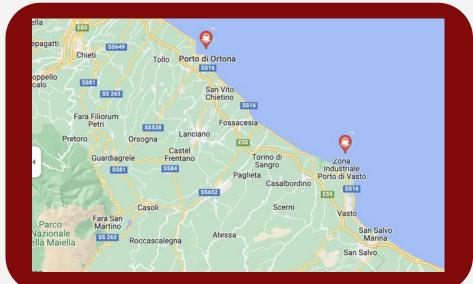




RAILWAYS



- Ortona
- Vasto





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





ROMA

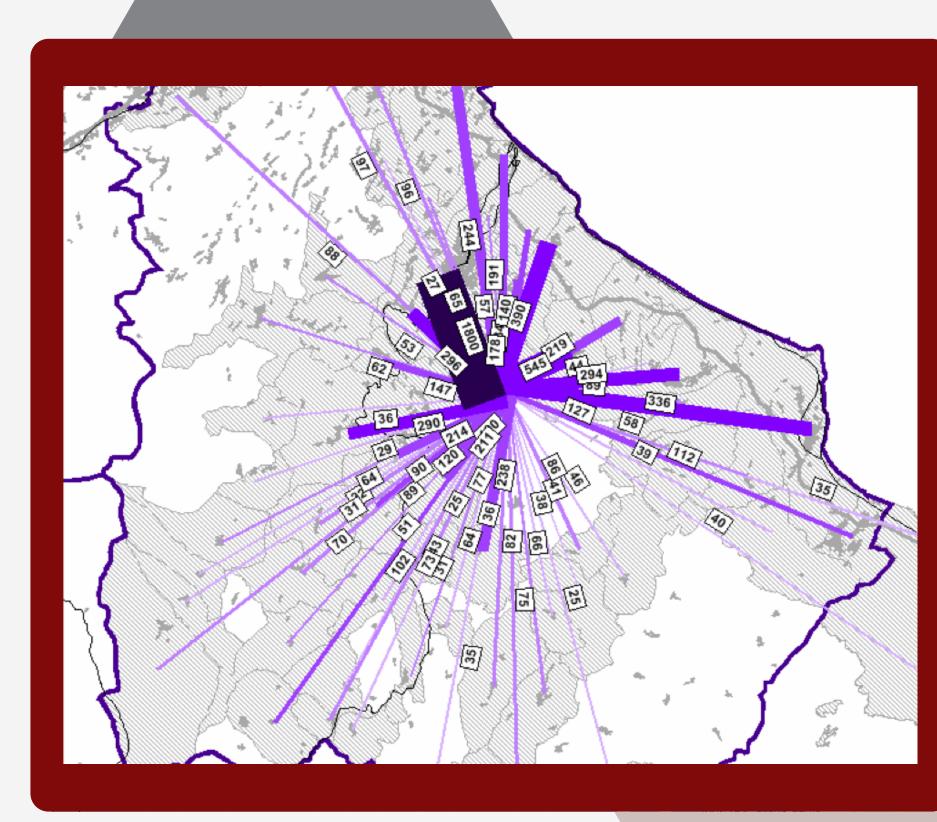
Chieti province



Val di Sangro



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

- assigned to the company "De Santis", Rome Budget: 214 MiO/€ Activity : ongoing and will end in 2025
- "CIRCULAR ROAD" CONSTRUCTION (industrial area): Activity VAL DI SANGRO INDUSTRIAL DISTRICT: improvement of the ro Surfaces improvement

PASSENGER TRANSPORT

RAIL

	to extend se		
•	NEW EXCHA		
	speed up the		

•	UPGRADE OF

ENERGY

ENERGY SUPPLY

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

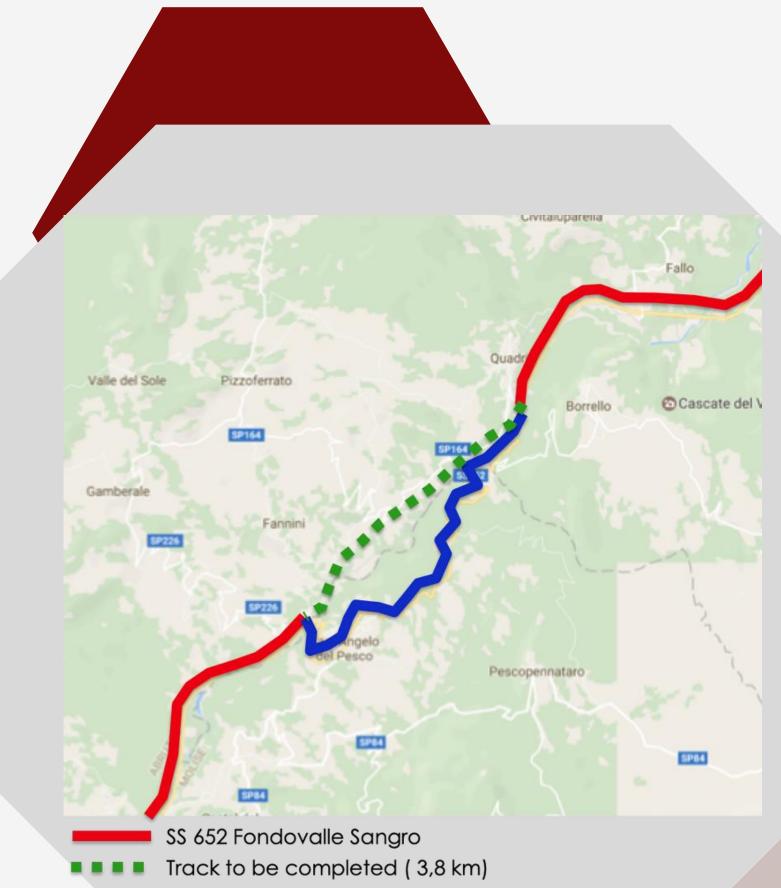
"FONDOVALLE SANGRO" CONSTRUCTION: Tender: closed

- 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 ervice to people (already completed).
- NGE AT FOSSACESIA/TORINO DI SANGRO railm speed up the arrival and departure of products transported F 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





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



People (o/w 85% in Chieti district)





Companies: Big, medium & small

- Sector: Automotive and mechanical engineering
- Includes: Sub-suppliers, component manufacturers and engineering companies

€ 8 billion

27% Industrialisation rate: (Higher than the national

average)



ering cturers and engineering companies

Production chain





The only European plant of the Japanese giant for the two-wheeler sector. Positive market

EUROPE SPA ATESSA 12% of European production > 250.000 vehicles produced per year

STELLANTIS

It is important to locate new businesses of the supply chain in the area, with particular attention to the transformation of vehicles, production of electric motors and disassembly



OTHERS

Group of globalized companies, large enterprises and SMEs

Automotive and mechanics sector

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

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

PEOPLE : 11.000 employees, of which 5.500 Stellantis Atessa plant



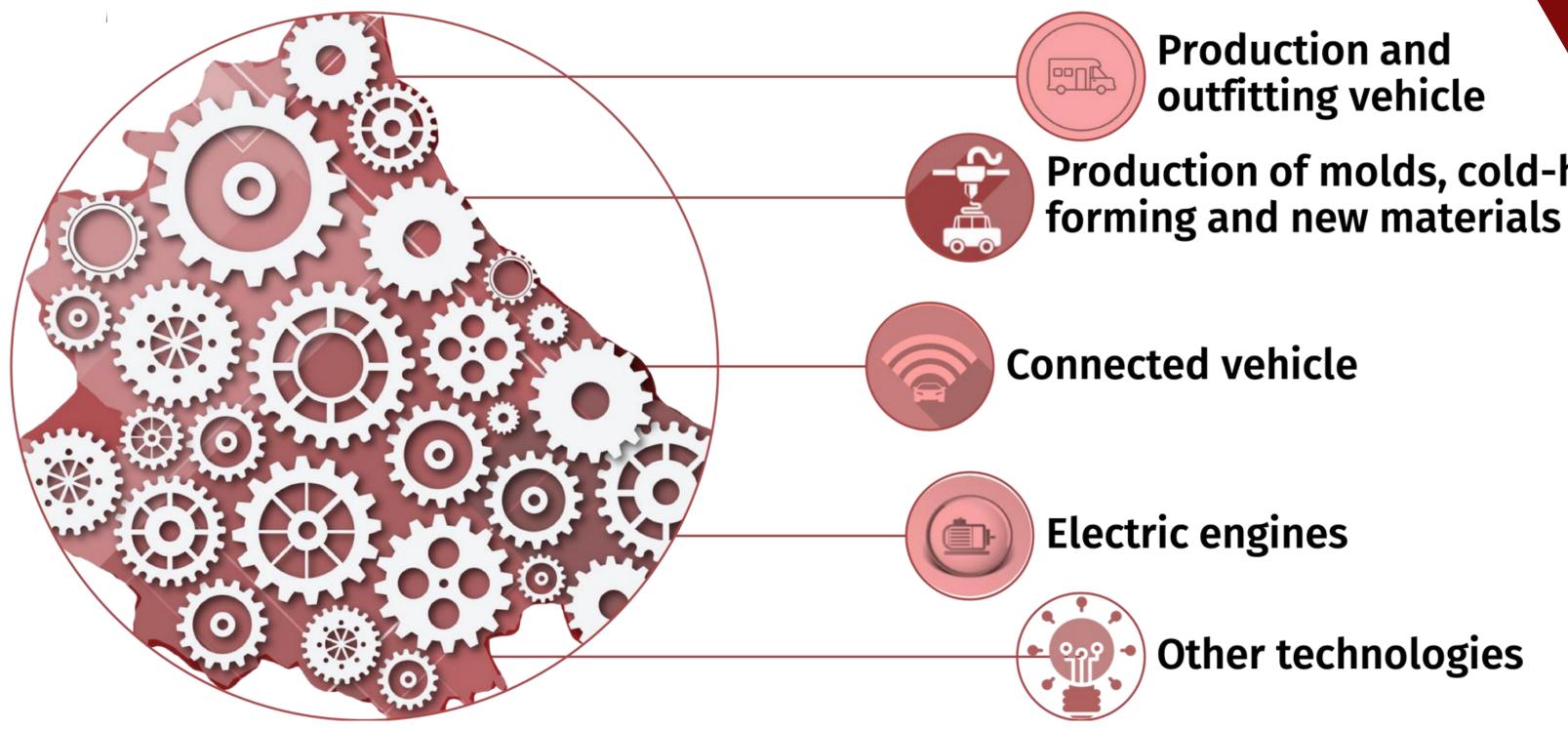
Honda Italia Industriale Suppliers, Longov 43 companies, of which 19 installed in Abruzzo

PEOPLE :

1.700 employees in Abruzzo, of which 900 Honda Atessa plant



AUTOMOTIVE TECHNOLOGIES IN ABRUZZO REGION



Production of molds, cold-hot

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

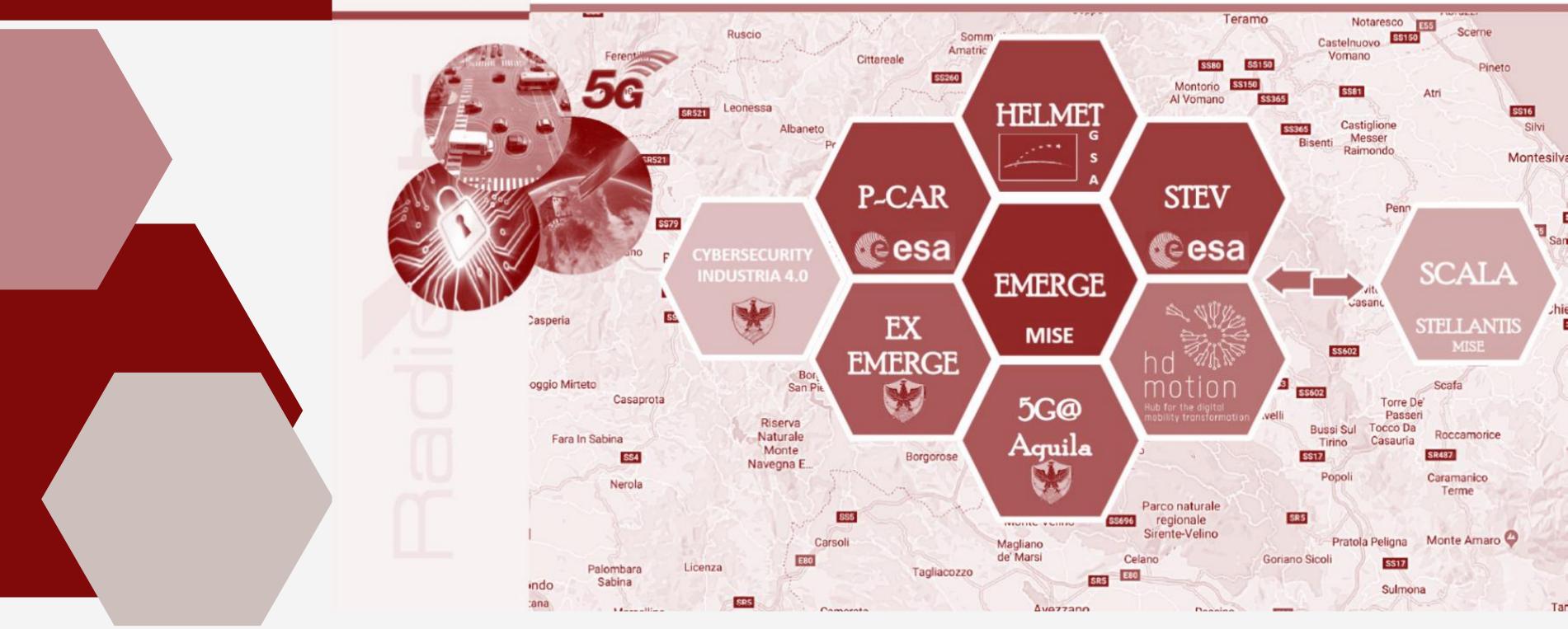
- Secure communications
- Resilient GNSS signal processing
- Intelligent defined security

Hitachi Rail STS



European Hub satellite-based technology

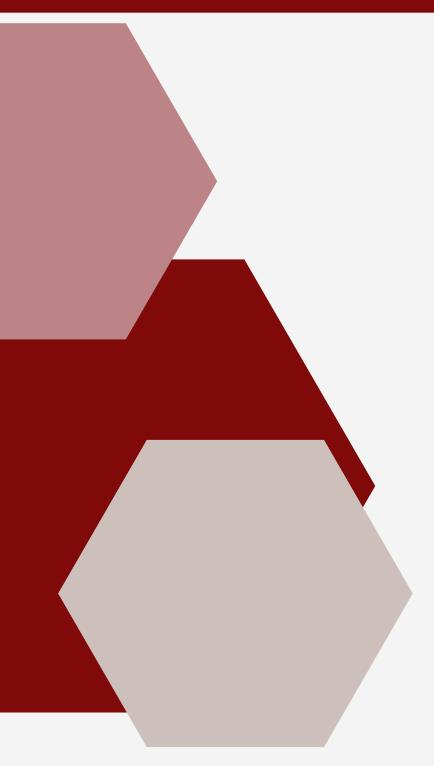




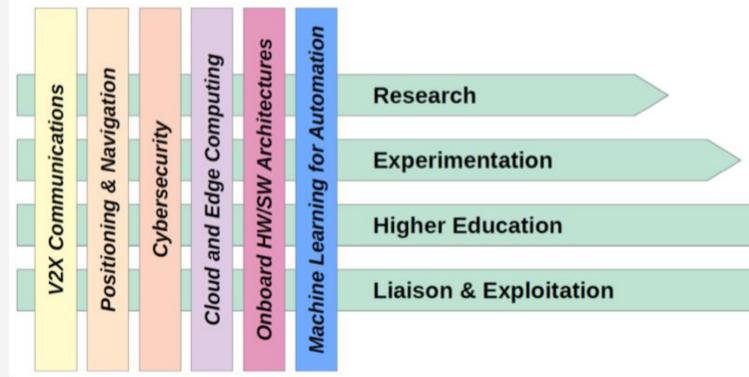
+ 10 M€ R&D projects

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)

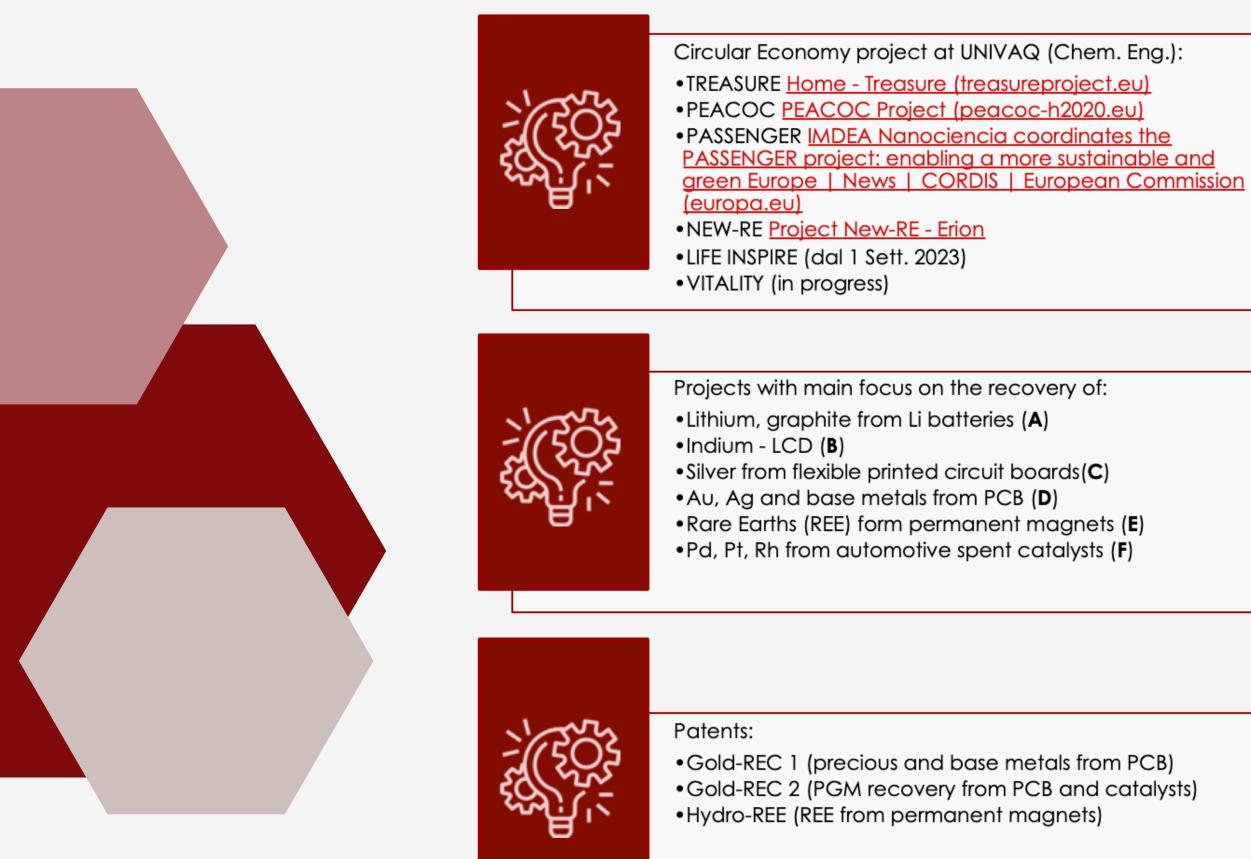


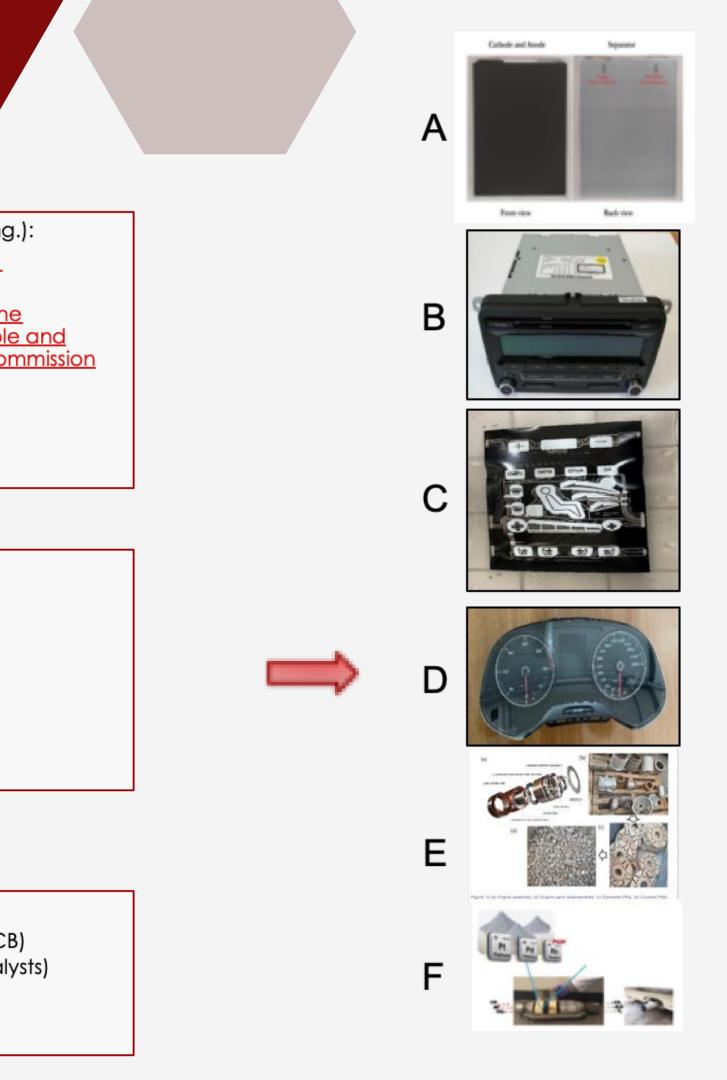






Other Industrial hub: UNIVERSITY OF L'AQUILA AND RADIOLABS



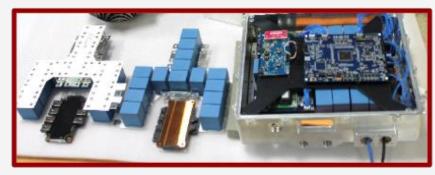


University of L'Aquila Laboratory of Electrical Engineering

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

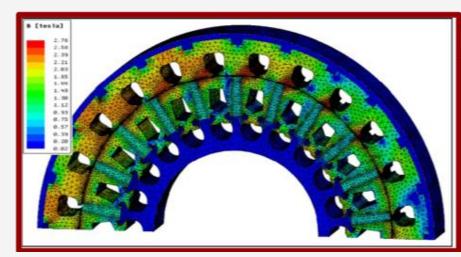


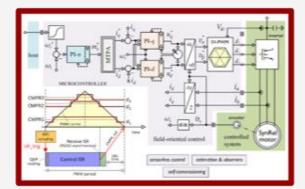
Induction motors (aluminum or copper rotor)

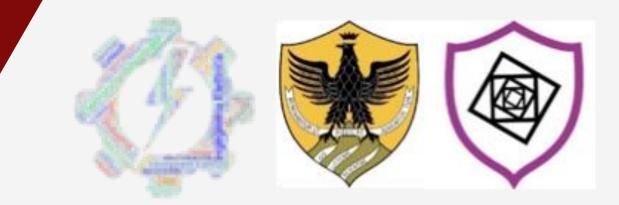
PM Synchronous motors

Reluctance Synchronous motors

Switched Reluctance motors



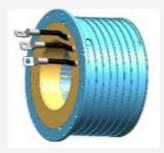




- R&D on electrical drives for automotive and aerospace applications featuring SiC technology and modular architecture:
 - Modelling and simulation;
 - HW architecture definition;
 - Sizing and selection of electronic components;
 - Electrical machines integration.
- Mathematical model of the electrical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

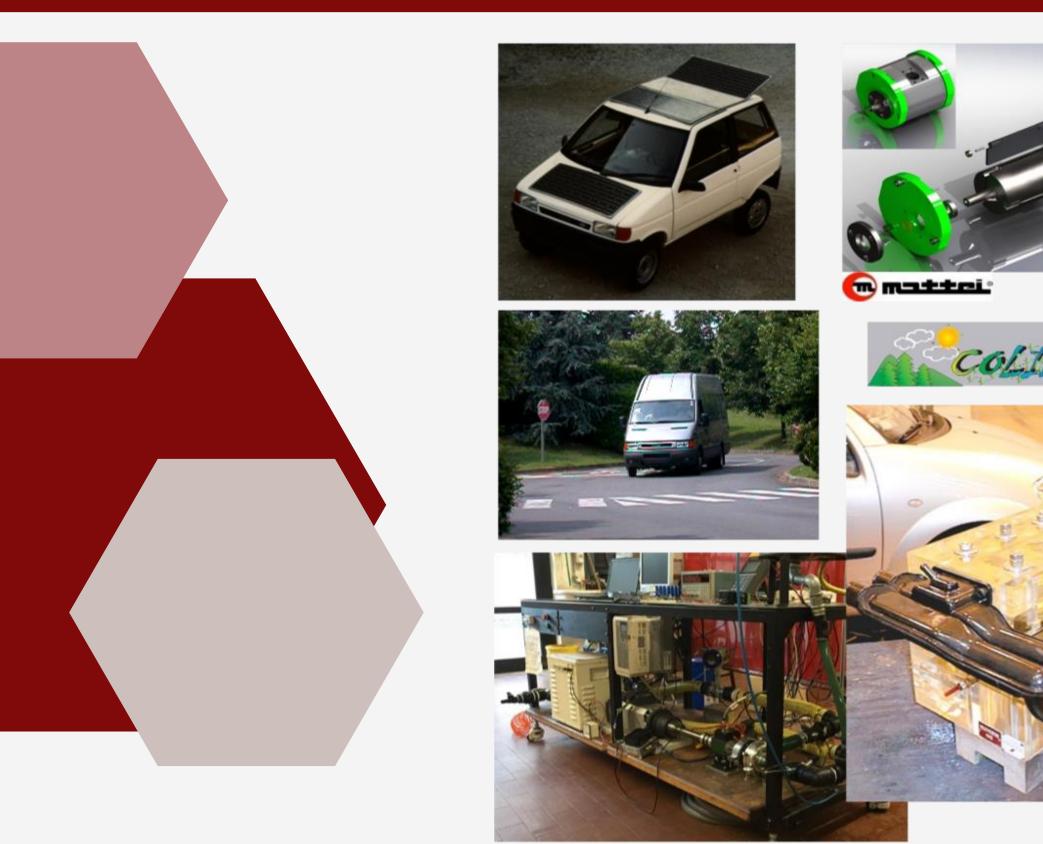








University of L'Aquila ENGINES/ENERGY: EXPERIMENTAL FACILITIES Prototypes & testing labs

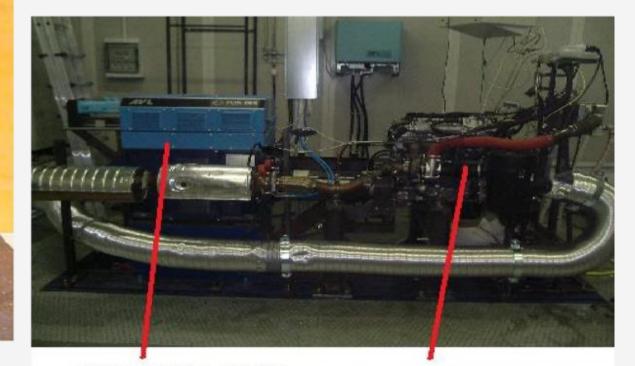










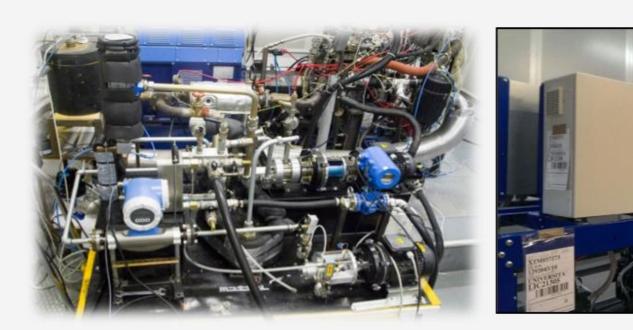


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University of L'Aquila ENGINES/ENERGY: EXPERIMENTAL FACILITIES Prototypes & testing labs























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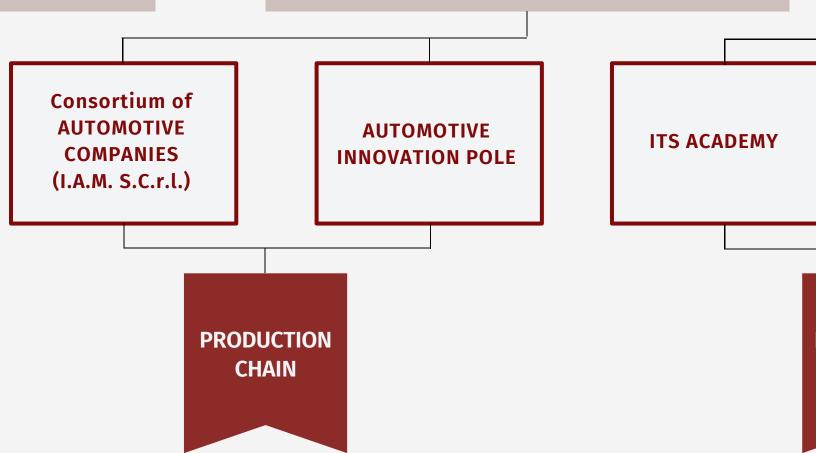






To ensure an industrial qualified and independent R&D offer

advanced services



From dependence to COLLABORATION...

To qualify competencies and organize and provide knowledge in the field of mechanics and automotive

TECHNICAL AND PROFESSIONAL POLE

EDUCATIONAL CHAIN



THE AUTOMOTIVE INNOVATION POLE



AUTOMOTIVE INNOVATION HUB: A LONG HISTORY



About **50 COMPANIES**

of which most in Abruzzo



The Automotive sector in Abruzzo

is the **engine** of **region's development**



To encourage **INTERACTION** between the enterprises and to contribute 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

research bodies, start up) active in a particular sector.

MISSION

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

PARTNER

About 50 partners including enter different sizes as well as research ce Engineering Department of the Univ L'Aquila, ect.

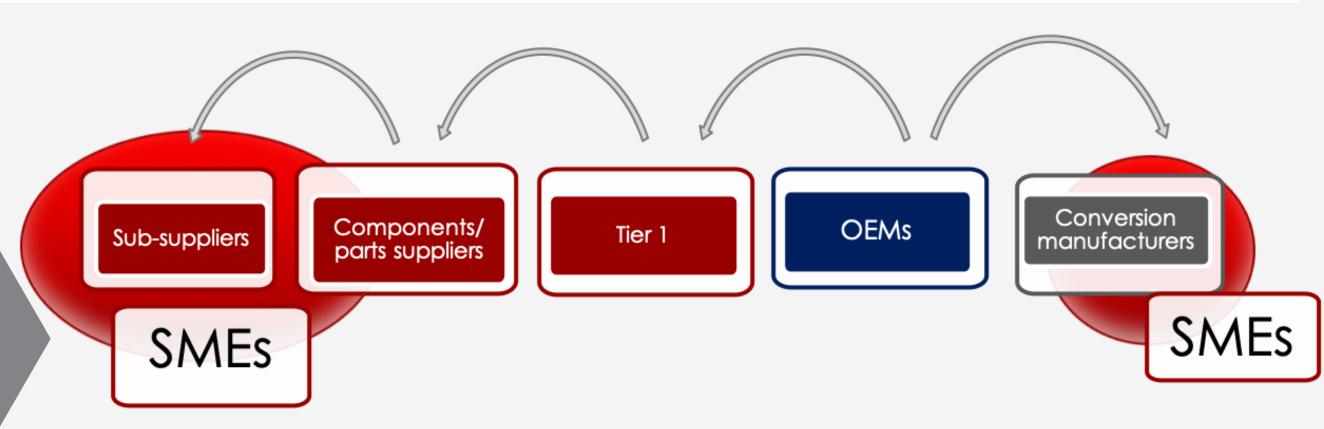
Innovation Pole are foreseen by the European Community (2006/C 323/01). A Pole is a clustering of independent enterprises (SMEs, LEs and

	ion I headquarters)	45	
n the 1ge of	IND	Large enterprise	11
ell to ansfer,	ME	Medium enterprise	7
ation	SE	Small enterprise	17
	SES	Service provider	9
	UNI	University	1
	Other regions		
rprises of entres, the	IND	Large enterprise	4
iversity of	ME	Medium enterprise	2
	Total		51



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







Maria Onida **STELLANTIS**

Organogram

Giuseppe Ranalli TECNOMATIC

Vice President

TECHNICAL STAFF

Raffaele Trivilino DIRECTOR

Roberta Stella **ADMINISTRATION** MANAGER

Federica Rossetti **R&D PROJECT MANAGEI**

Daniela Di Cecco COMMUNICATION MANAGER





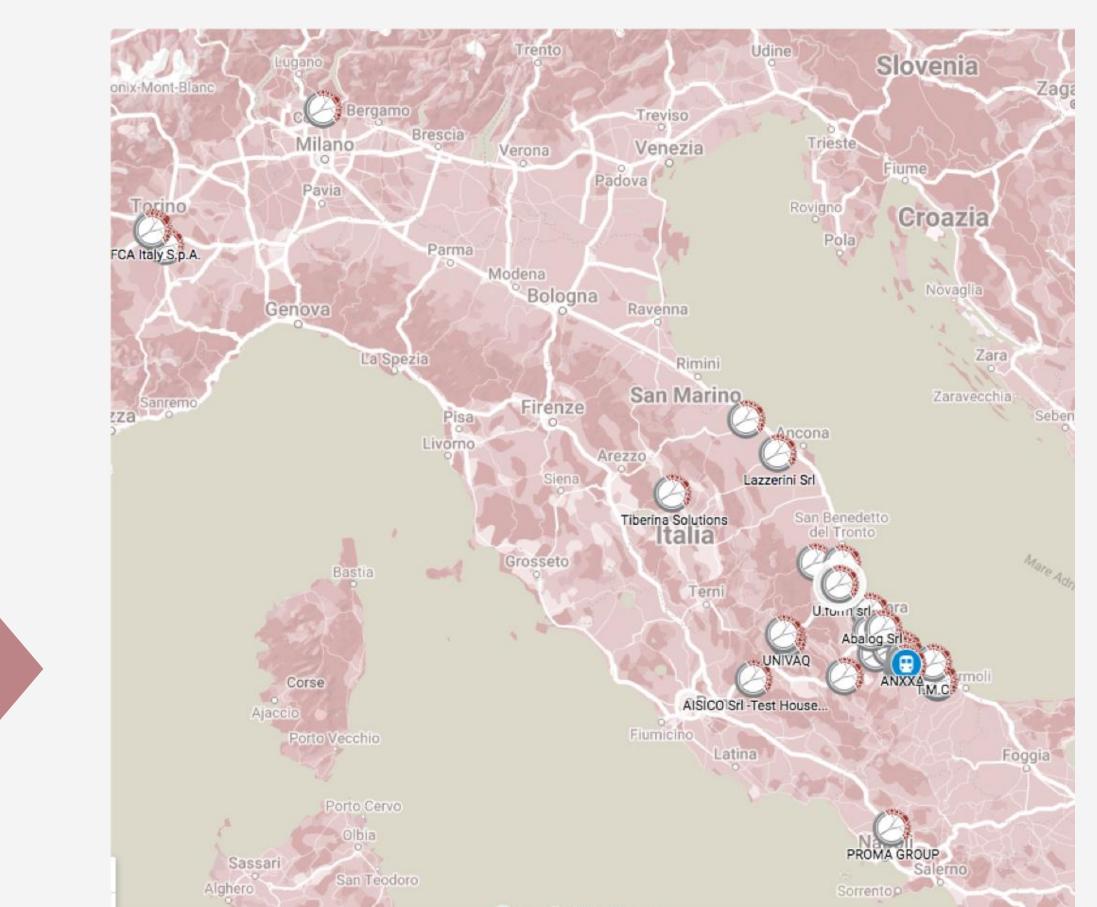
RESEARCH AND DEVELOPMENT AREAS 2022-27 (GREEN - SMART- INTERCONNECTED):

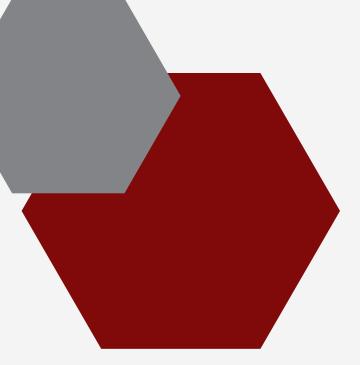


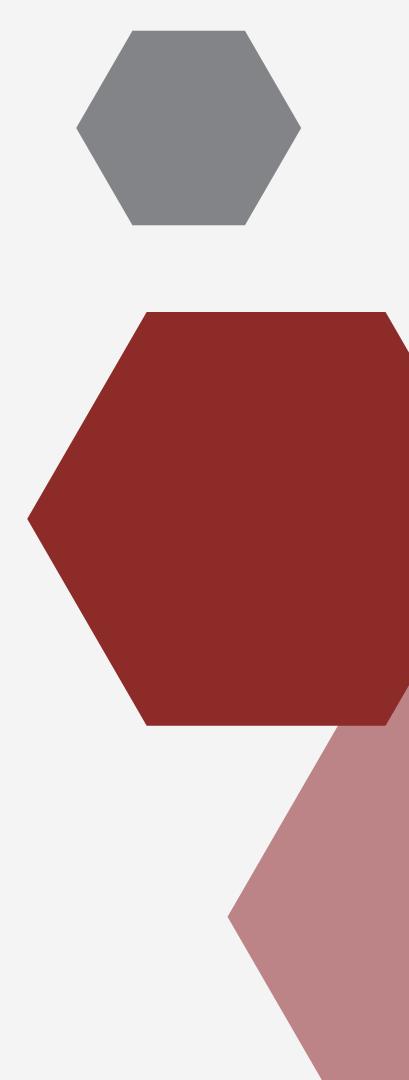
Connected vehicle, self driving and driver assistance



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/ZES)

It is an agreement between the Ministry of Enterprises and Made in Italy (M Italian agency in charge of incentives, Invitalia, and one ("lead") or more companies implementing investments in manufacturing, environmental pro 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- location)
- change the production process of an existing production unit (modernization)

The total minimum investment required is **€20 million**, excluding the infi expenses.

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

The contract can also be activated through the Programme Agreeme procedure can be used for investments that have a significant impact on the competitiveness exceeding 50 million of investment

	Incentives
e ("other")	Investment grants of up to 30% for small enterprises, 20% for medium-sized enterprises and 15% for large enterprises .
	Environmental investment grant of up to 45%.
n); ion).	Incentive for energy efficiency investments of up to 35%.
frastructure	Incentive for Research and development ranging from 25% to 50% depending on the type of
<u>w economic</u> / efficiency)	
ent, whose e territory's	



OPPORTUNITIES FOR PUBLIC FUNDING OF INVESTMENTS AND R&D

Regulatory references

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

A tax credit was introduced for the years 2023 in favor of companies that purchase new capital goods for production facilities; In the ZES area, funding is also provided for the purchase or construction of structures

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, 20 per cent for medium businesses, and 15 per cent for large businesses
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

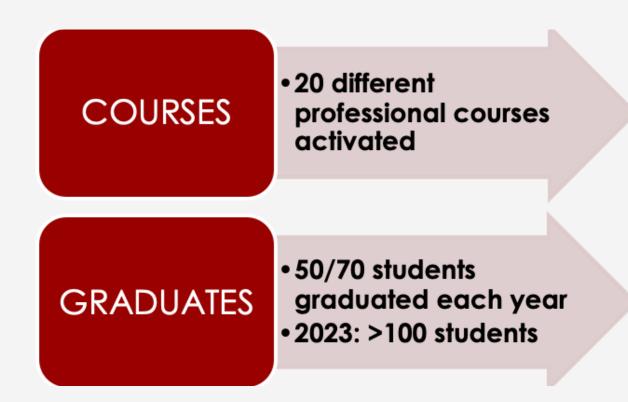
Immediate assignment of each student to the reference company

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



one's duties)



In attendance

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

DELIVERY MODE

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

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:

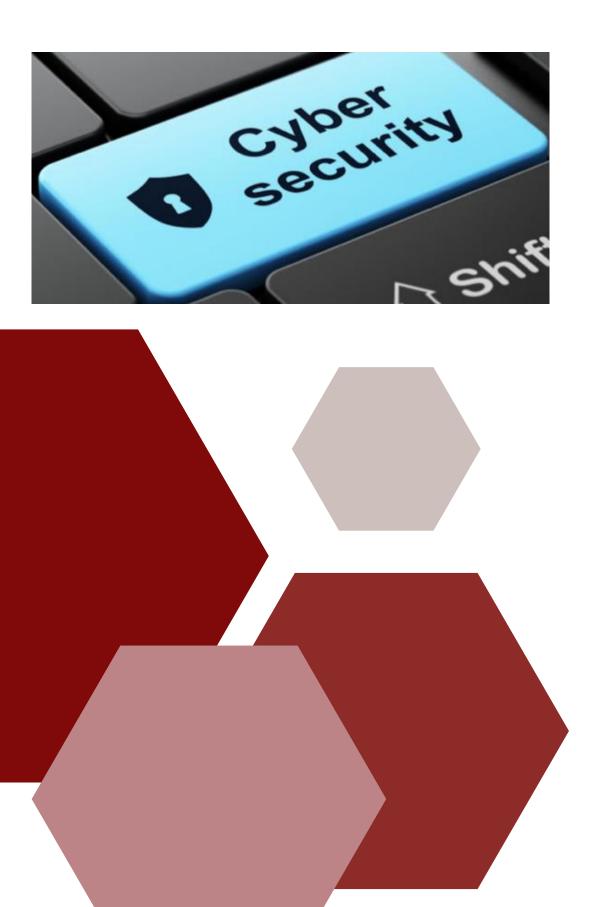
Guidelines and new systematic approaches focused on The recovery of competitiveness of «Made in Italy» solutions

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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