

Investing in Abruzzo Automotive: state of the art and opportunities



2024

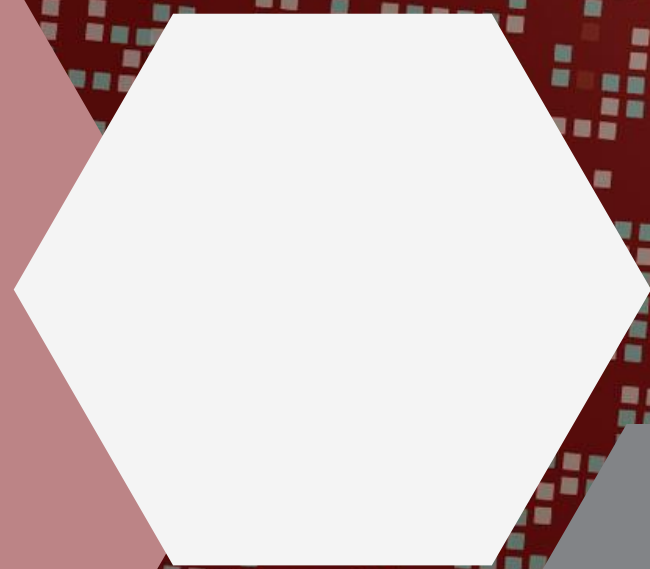


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- The Abruzzo regional context
- Accessibility of the territory
- Industrial Hubs
- Automotive innovation programme
- The Automotive Innovation Pole
- Automotive Innovation Hub: collaborations
- Contacts

A stylized, dark red map of the Abruzzo region is positioned in the upper center of the slide. The background is a dark red field with a repeating pattern of small, light blue and white squares, creating a textured, woven appearance.

AUTOMOTIVE: **The Abruzzo regional context**



AUTOMOTIVE: The Abruzzo regional context

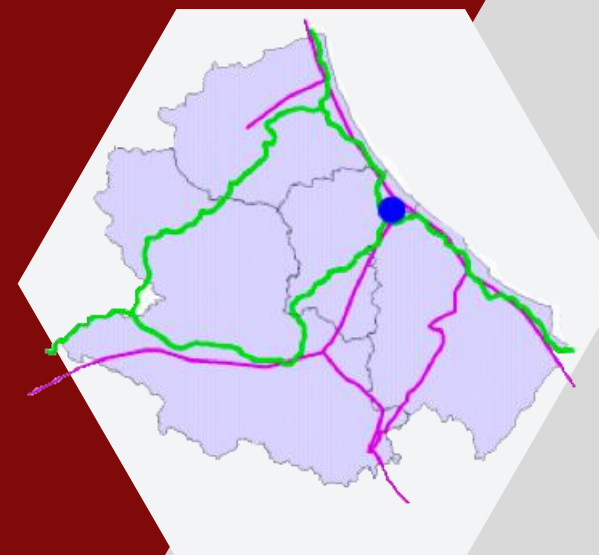
ABRUZZO REGION: AN OPPORTUNITY
FOR THE AUTOMOTIVE SECTOR



Green
&
Welcoming



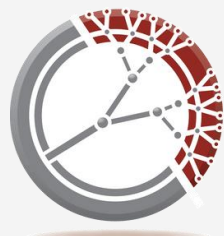
Industrialized
&
Full of Innovation



Accessible



Rich of Opportunities

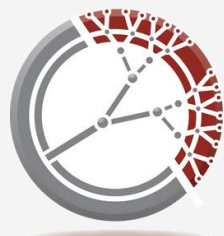


Green Region of Europe, in the heart of Italy

- 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



AIR CONNECTIONS

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



MOTORWAYS

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



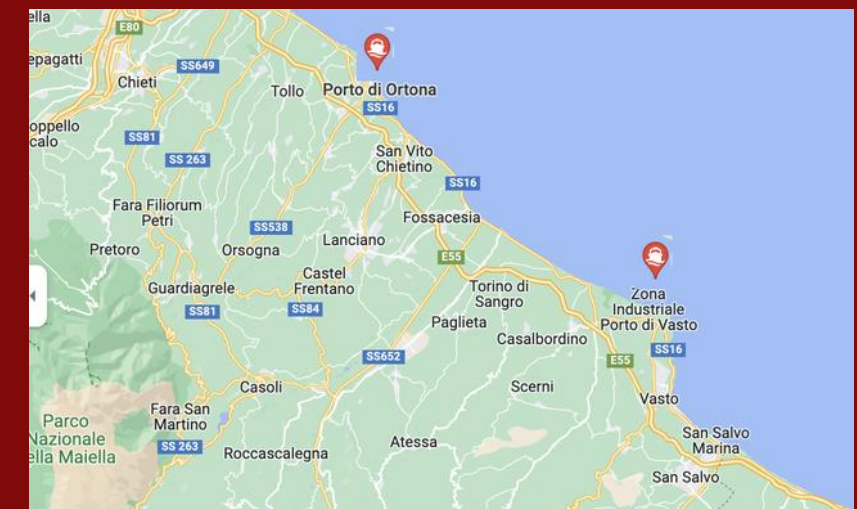
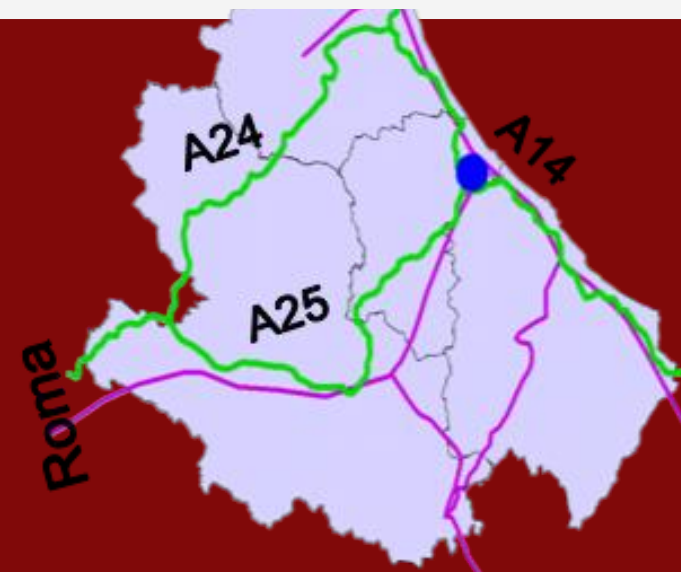
RAILWAYS

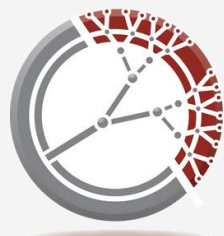
- North - South (Bologna - Lecce)
- East - West (Crossing Sangro Valley)



PORTS

- Ortona
- Vasto

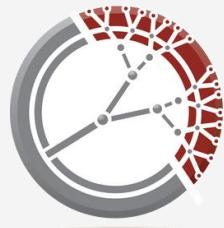




ABRUZZO: easily accessible connections even by train with Northern Italy and Europe



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



Abruzzo



Chieti province

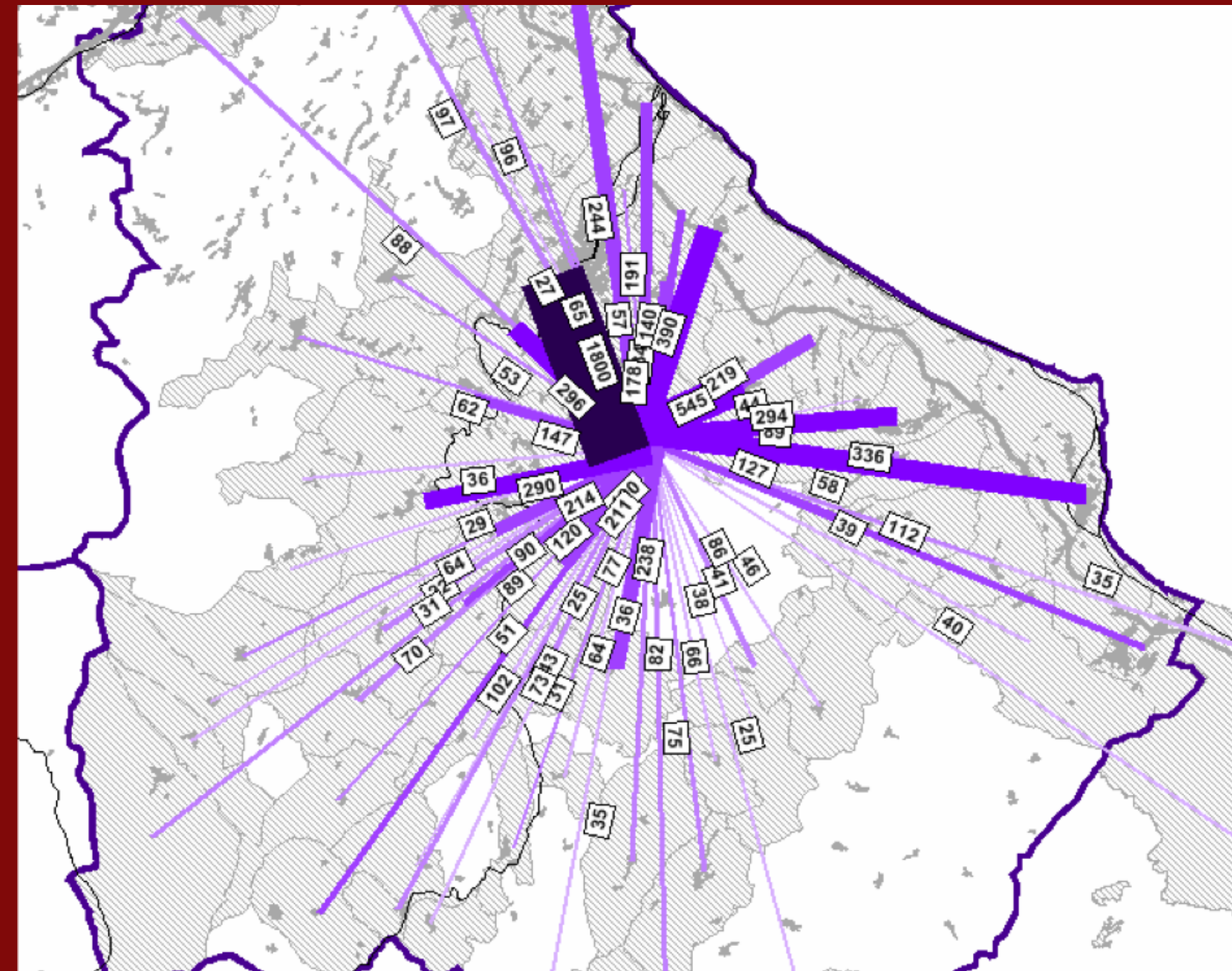


Val di Sangro

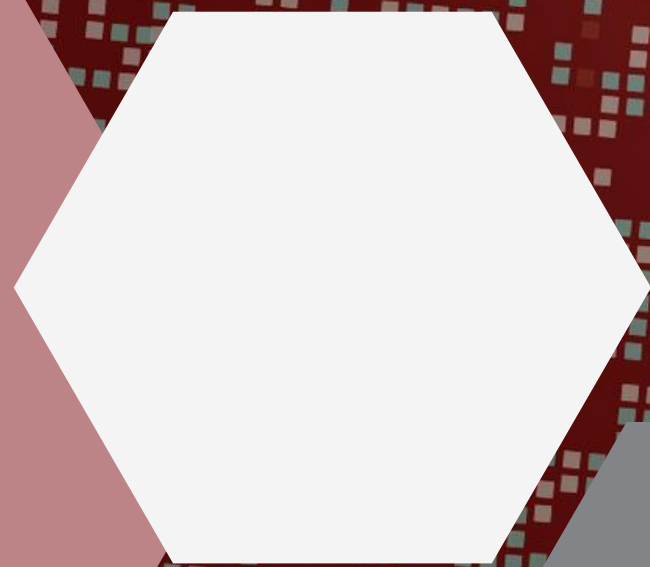


ACCESSIBILITY OF THE TERRITORY

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



INDUSTRIAL HUBS



Automotive supply chain



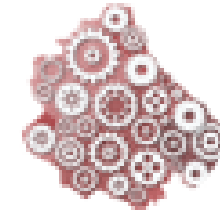
- Companies: Big, medium & small
- Sector: Automotive and mechanical engineering
- Includes: Sub-suppliers, component manufacturers and engineering companies

Production chain



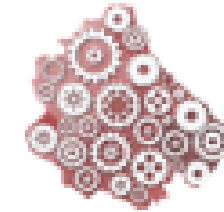
12% of European production
> 250.000 vehicles produced
per year

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



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

Positive market



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, 43 companies, of which 19 installed in Abruzzo

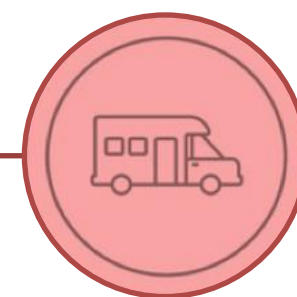
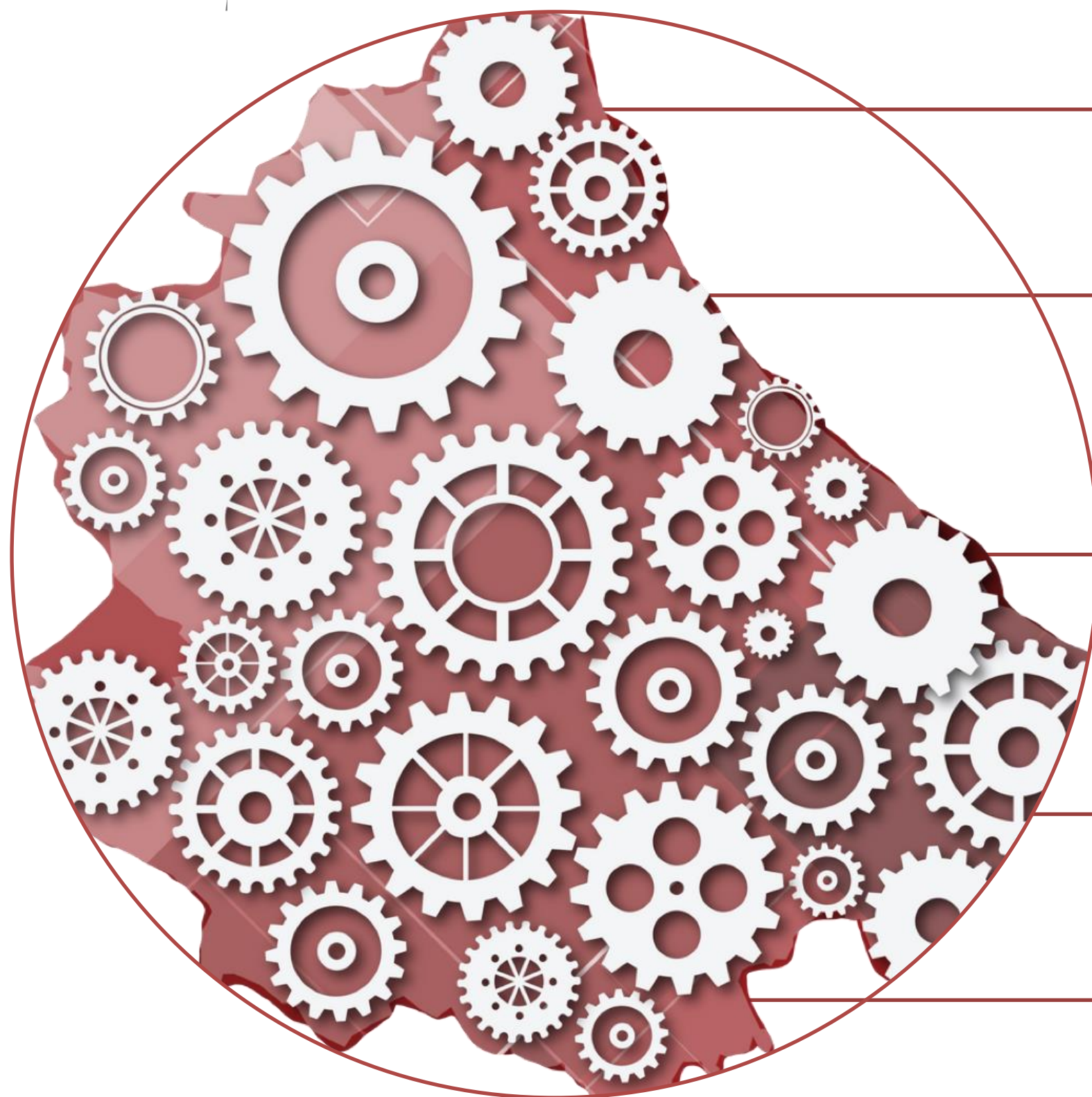


PEOPLE :

1.700 employees in Abruzzo, of which 900 Honda Atessa plant



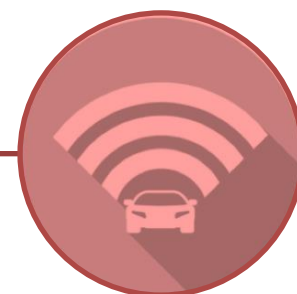
AUTOMOTIVE TECHNOLOGIES IN ABRUZZO REGION



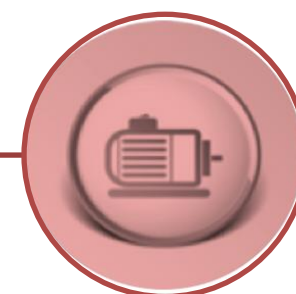
**Production and
outfitting vehicle**



**Production of molds, cold-hot
forming and new materials**



Connected vehicle



Electric engines



Other technologies



PEOPLE: 20.000 employees in Abruzzo

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 unprecedented transformation facing the transport sector

MISSION

Innovation and technology transfer

Enabling technologies 'satellite-based' for autonomous driving

Laboratories for supporting validation & certification



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



PEOPLE : high skilled resources

First European Laboratory for validating geo-localization technologies

European Hub satellite-based technology

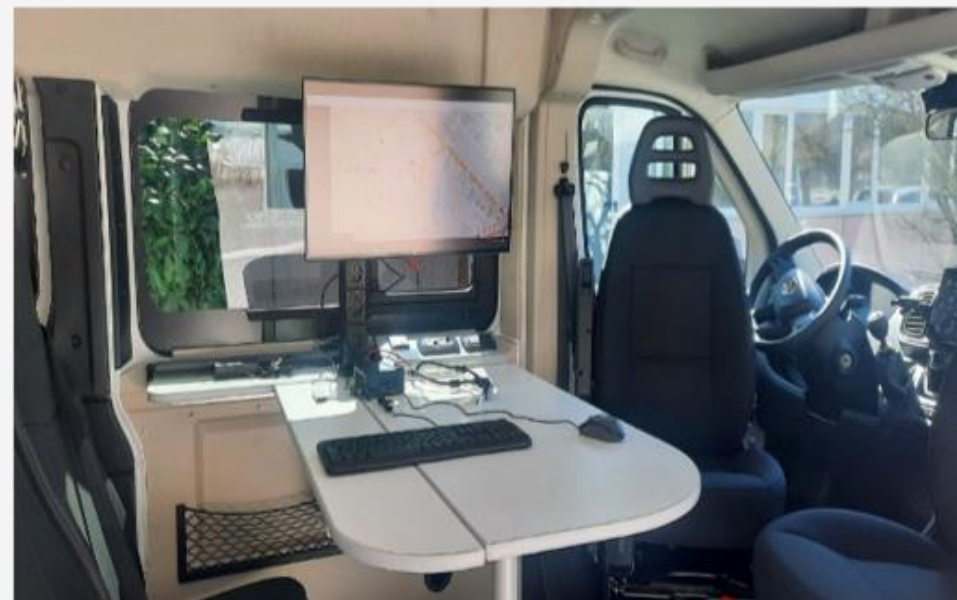
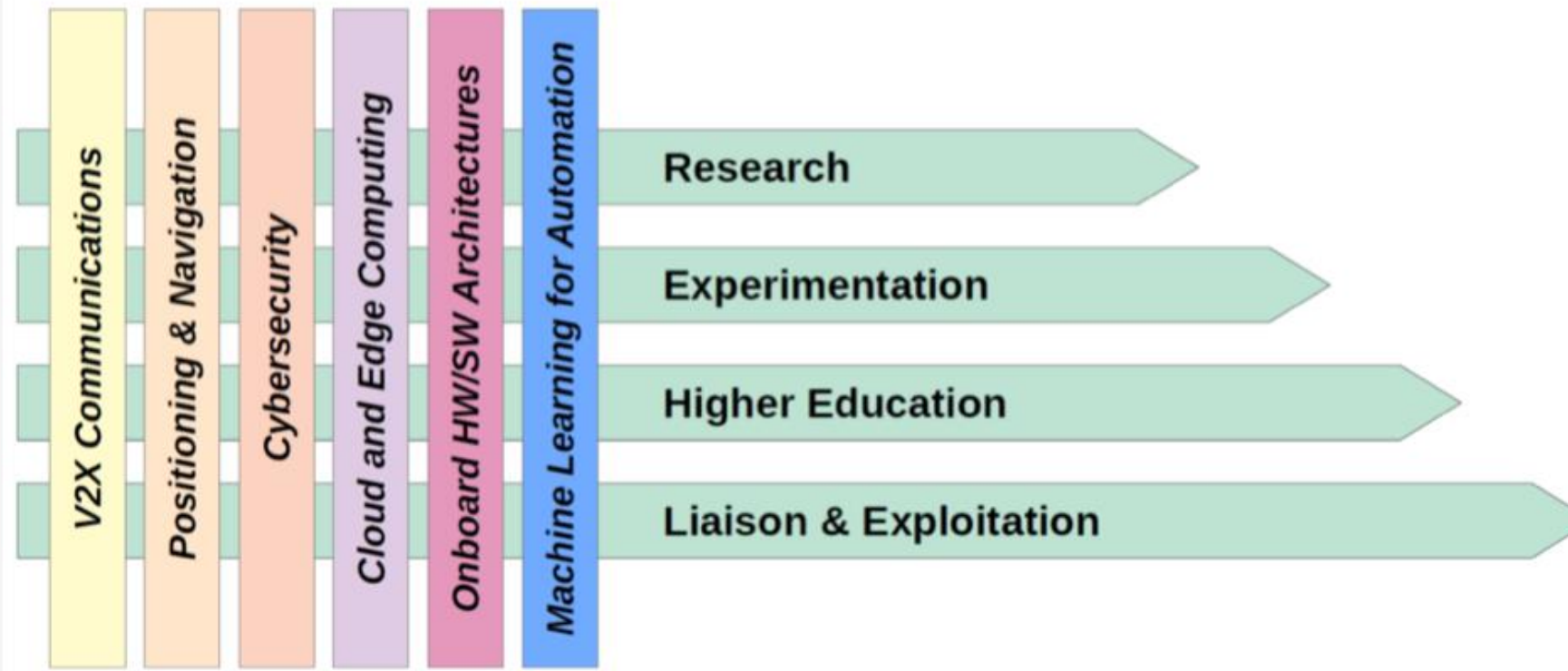


+ 10 M€ R&D projects

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



Circular Economy project at UNIVAQ (Chem. Eng.):

- TREASURE [Home - Treasure \(treasureproject.eu\)](http://Home-Treasure(treasureproject.eu))
- PEACOC [PEACOC Project \(peacoc-h2020.eu\)](http://PEACOC Project(peacoc-h2020.eu))
- PASSENGER [IMDEA Nanociencia coordinates the PASSENGER project: enabling a more sustainable and green Europe | News | CORDIS | European Commission \(europa.eu\)](http://IMDEA Nanociencia coordinates the PASSENGER project: enabling a more sustainable and green Europe | News | CORDIS | European Commission (europa.eu))
- NEW-RE Project New-RE - Erion
- LIFE INSPIRE (dal 1 Sett. 2023)
- VITALITY (in progress)



Projects with main focus on the recovery of:

- Lithium, graphite from Li batteries **(A)**
- Indium - LCD **(B)**
- Silver from flexible printed circuit boards **(C)**
- Au, Ag and base metals from PCB **(D)**
- Rare Earths (REE) from permanent magnets **(E)**
- Pd, Pt, Rh from automotive spent catalysts **(F)**

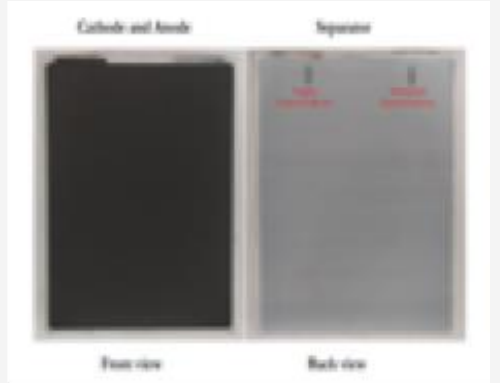


Patents:

- Gold-REC 1 (precious and base metals from PCB)
- Gold-REC 2 (PGM recovery from PCB and catalysts)
- Hydro-REE (REE from permanent magnets)



A



B



C



D



E

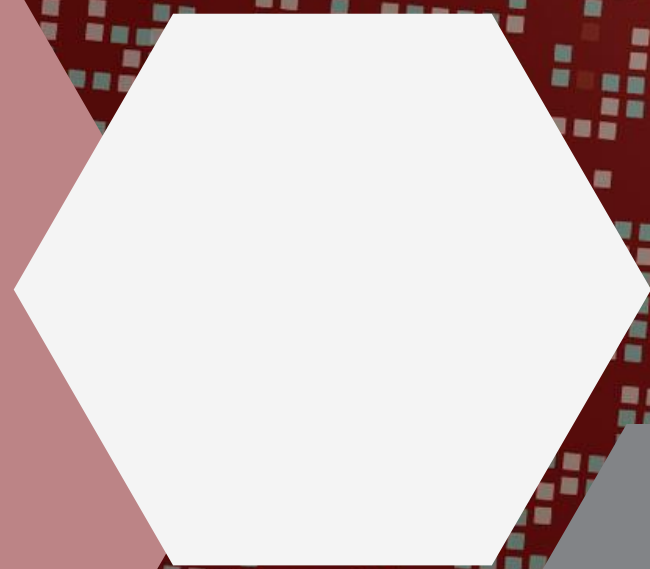


F



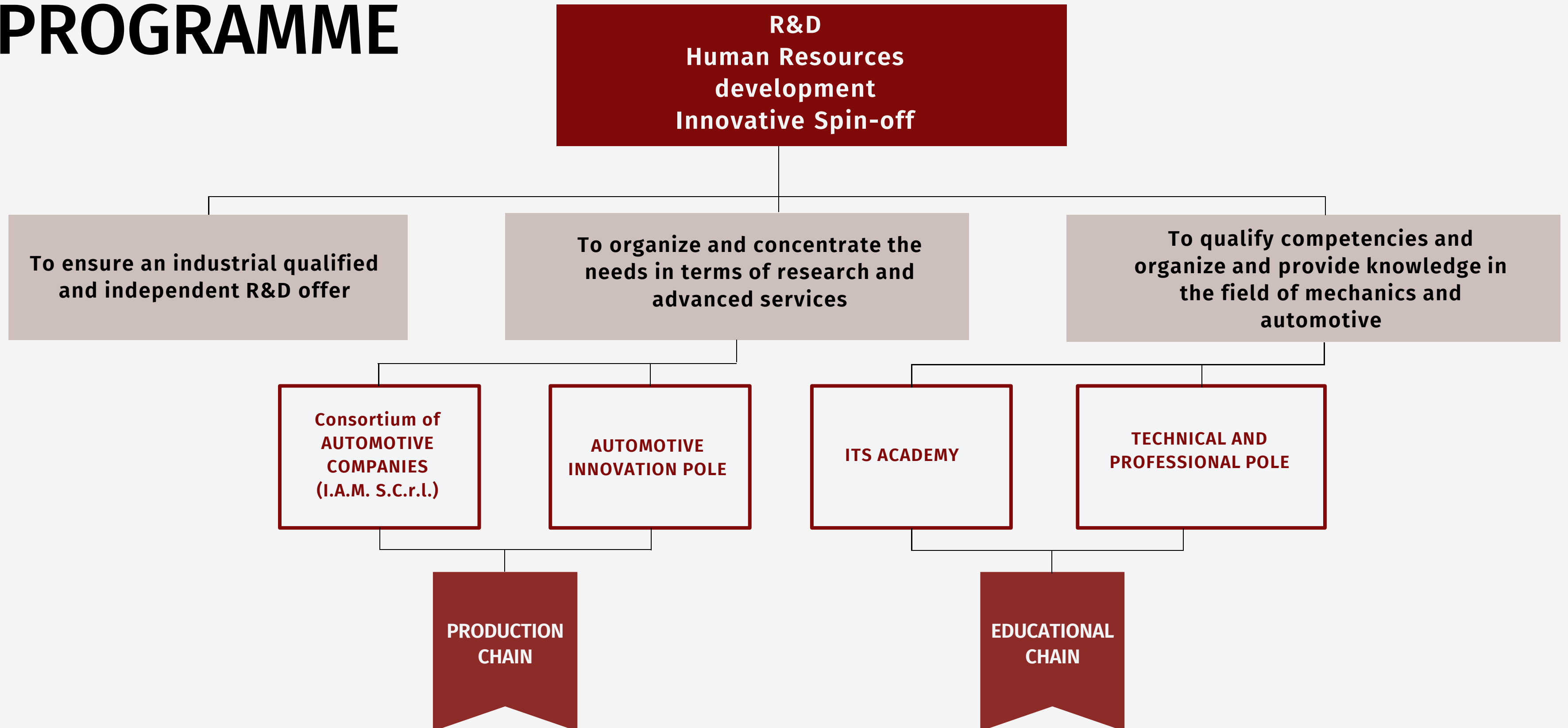


AUTOMOTIVE INNOVATION PROGRAMME



AUTOMOTIVE INNOVATION PROGRAMME

From dependence
to **COLLABORATION...**





THE AUTOMOTIVE INNOVATION POLE



AUTOMOTIVE
INNOVATION POLE

AUTOMOTIVE INNOVATION HUB: A LONG HISTORY



**AUTOMOTIVE
INNOVATION POLE**

2008

About **50 COMPANIES**
of which most in Abruzzo



2024

CREATION

Why?

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



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

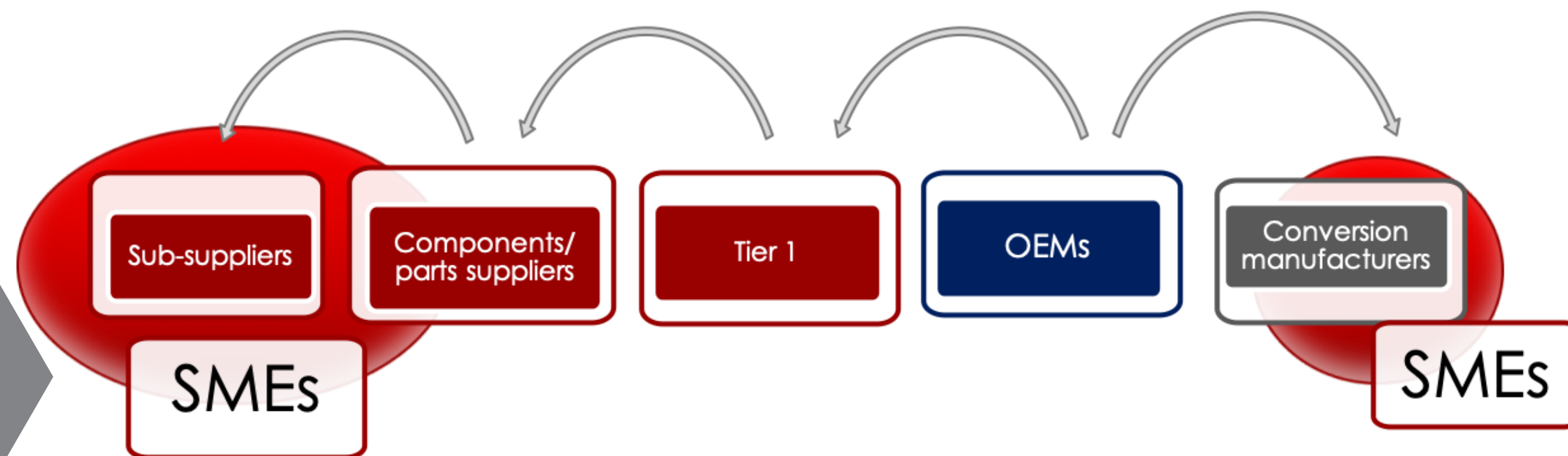
PARTNER

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)		45
IND	Large enterprise	11
ME	Medium enterprise	7
SE	Small enterprise	17
SES	Service provider	9
UNI	University	1
Other regions		6
IND	Large enterprise	4
ME	Medium enterprise	2
Total		51



SUPPLY CHAIN AND PARTNERS

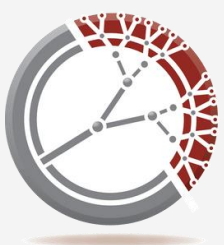


Organogram

BOARD OF DIRECTORS

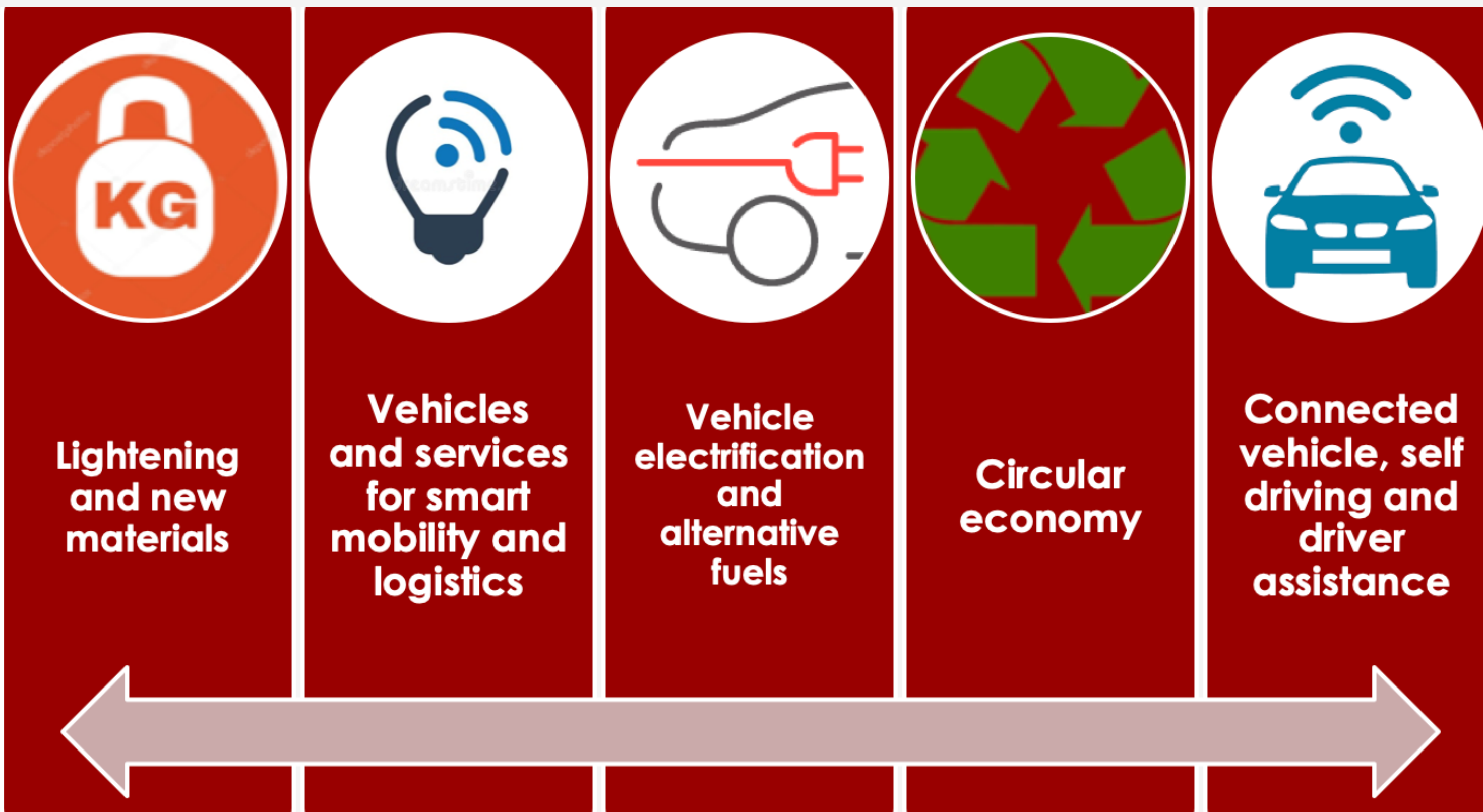
TECHNICAL STAFF

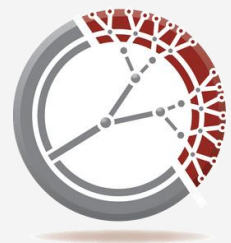




RESEARCH AND DEVELOPMENT AREAS 2022-27

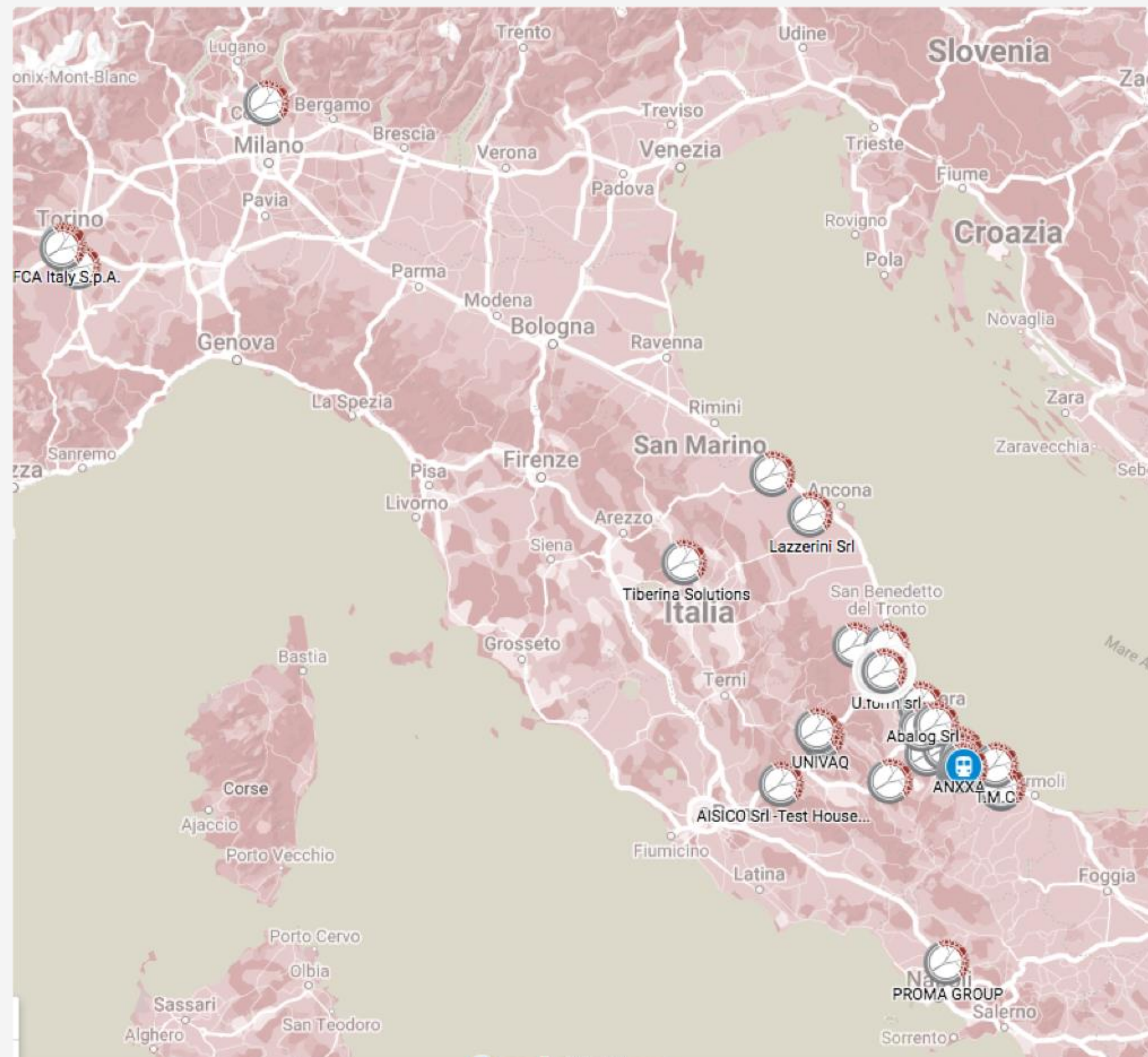
(GREEN - SMART- INTERCONNECTED):



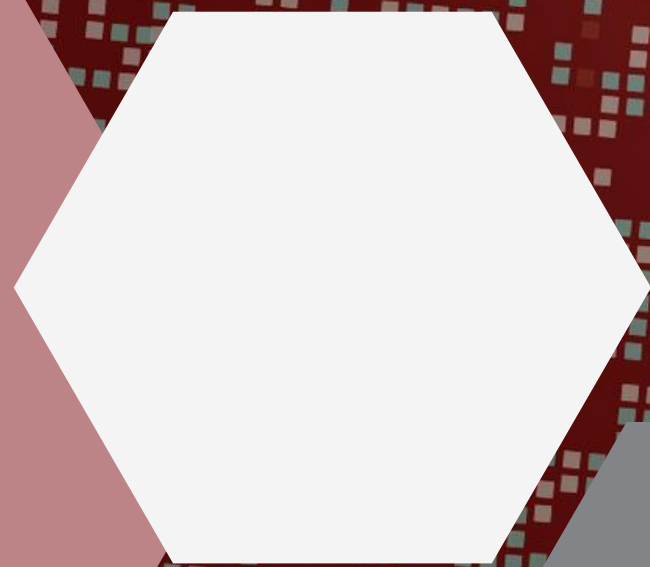


AUTOMOTIVE INNOVATION POLE

Partner geolocation - italy



AUTOMOTIVE INNOVATION HUB: COLLABORATIONS



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



+90%

within a year of high school diploma

COURSES

- 20 different professional courses activated

GRADUATES

- 50/70 students graduated each year
- 2023: >100 students

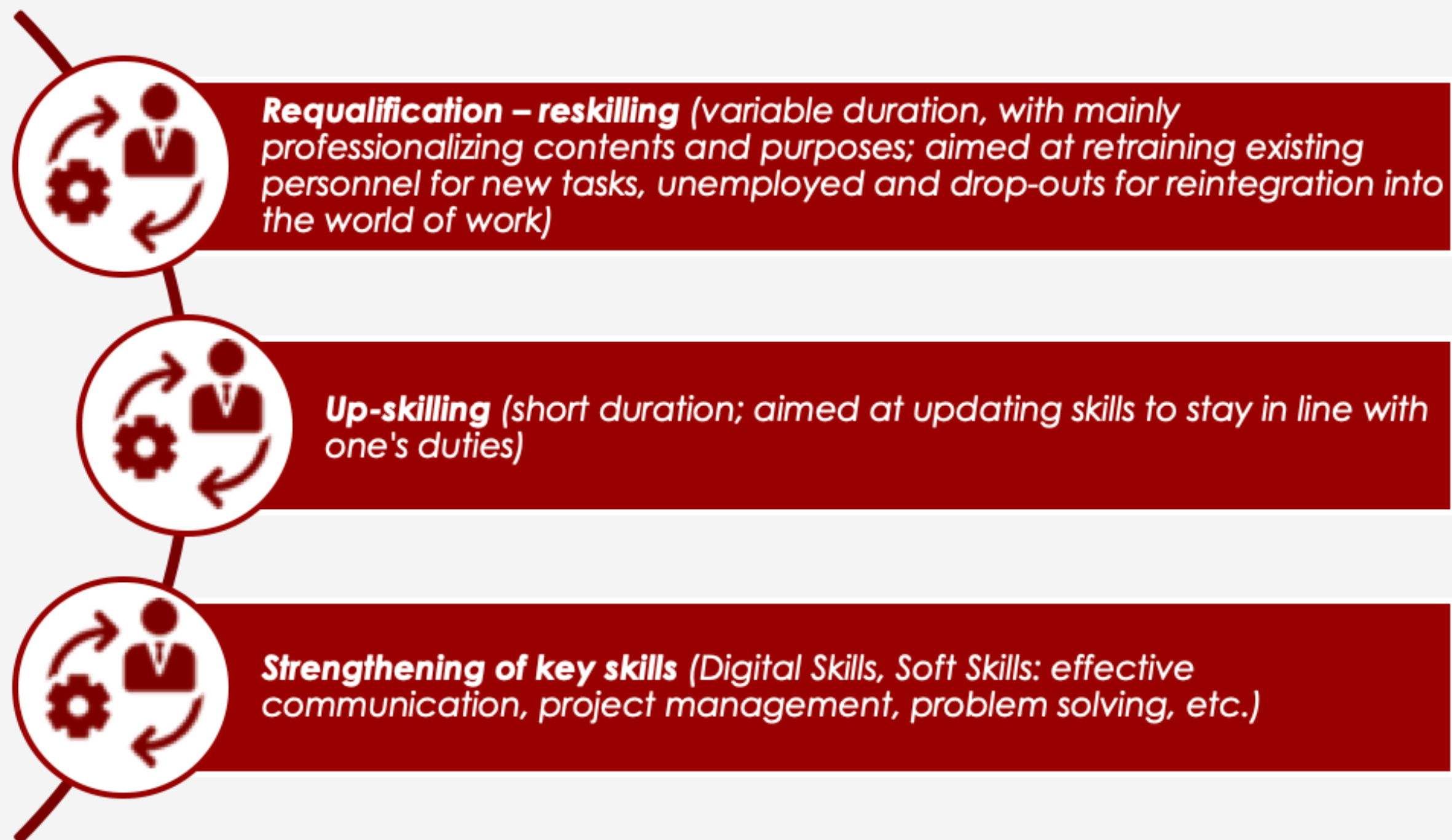


ITS ACADEMY

ACADEMY ACTIVITIES

(also in collaboration with GI)

Mixed structured training (even long-term) between professional skills and soft skills aimed at company personnel



DELIVERY MODE

In attendance

Remotely (e-learning platform)

Mixed mode

THE NATIONAL CLUSTER:

Means and systems for road and sea mobility



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



- The Cyber 4.0 Competence Center is dedicated to Cyber Security; was born within the University of Rome La Sapienza.
- It is one of the 8 Italian projects that have been recognized by the Ministry of Economic Development for what is one of the most qualifying objectives of the strategic activities of the Industry 4.0 Plan.
- 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 managers involved.

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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