



AUTOMOTIVE INNOVATION PROGRAMME

December 2019



Intervento realizzato con il cofinanziamento dell'Unione Europea
P.O.R. Abruzzo FESR 2007-2013 - Attività I.1.2 Sostegno alla creazione dei Poli di Innovazione



AUTOMOTIVE: The Abruzzo regional context

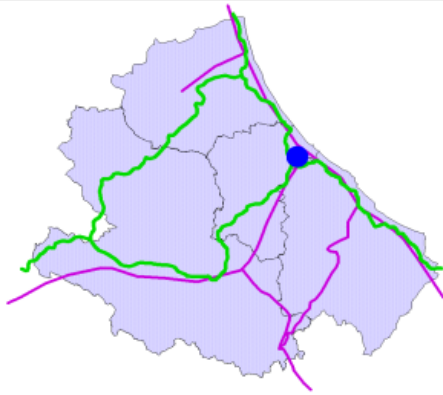
ABRUZZO REGION: AN OPPORTUNITY FOR THE AUTOMOTIVE SECTOR



Green
&
Welcoming



Industrialized
&
Full of Innovation



Accessible



Rich of Opportunities

ABRUZZO: A GREEN AND INDUSTRIALIZED REGION



Green Region in Europe

- ✓ 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

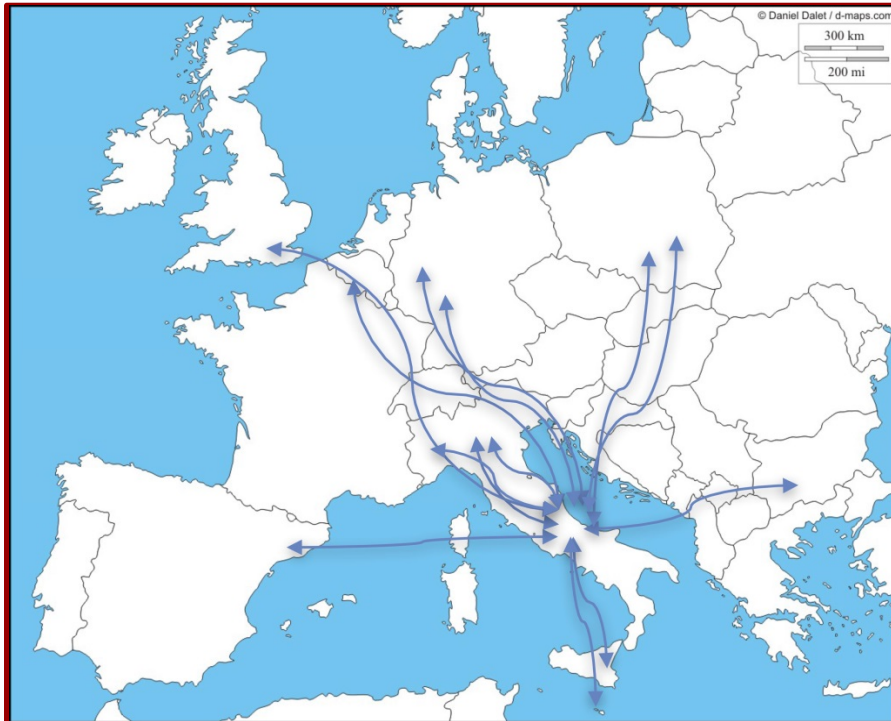


Highly industrialised Region

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

**Abruzzo, a region with a strong
environmental and industrial vocation**

Accessibility of the territory - ABRUZZO: EASILY ACCESSIBLE FROM/TO ALL OVER EUROPE



AIR CONNECTIONS

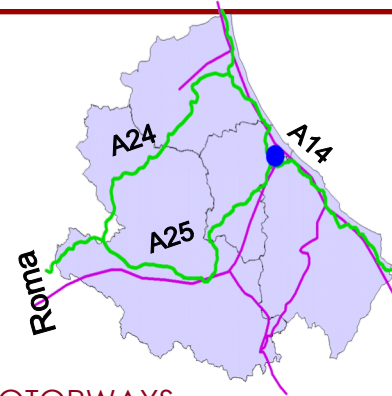
International Airport (Pescara)

- Ryanair's hub
- 700.000 Passengers/Year



PORTS

- Ortona
- Vasto



MOTORWAYS



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



RAILWAYS




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

AUTOMOTIVE INNOVATION HUB - ABRUZZO



25,000

People
(o/w 85% in Chieti
district)



€8.0 billion

Turnover





55%
of the Exports



AUTOMOTIVE SUPPLY CHAIN:

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



AUTOMOTIVE INNOVATION PROGRAMME

STARTING POINTS AND OBJECTIVES

Shortening product life cycle and globalization increased the competition with other territories.

Delocalization is becoming a concrete risk

Plants located in the Region often **don't have R&D department** in loco.

SMEs do not have resources in terms both of human capital and infrastructures **to perform any R&D** activity at all.

The **high level of technological and productive complexity** put a number of questions to local SMEs.

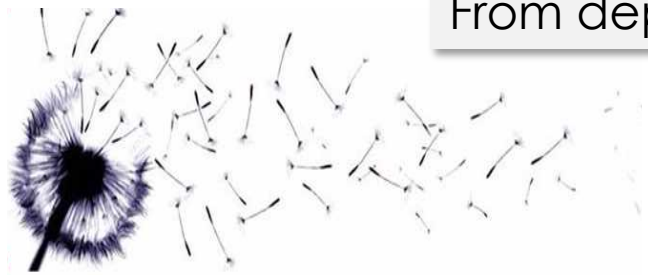


DISSEMINATION

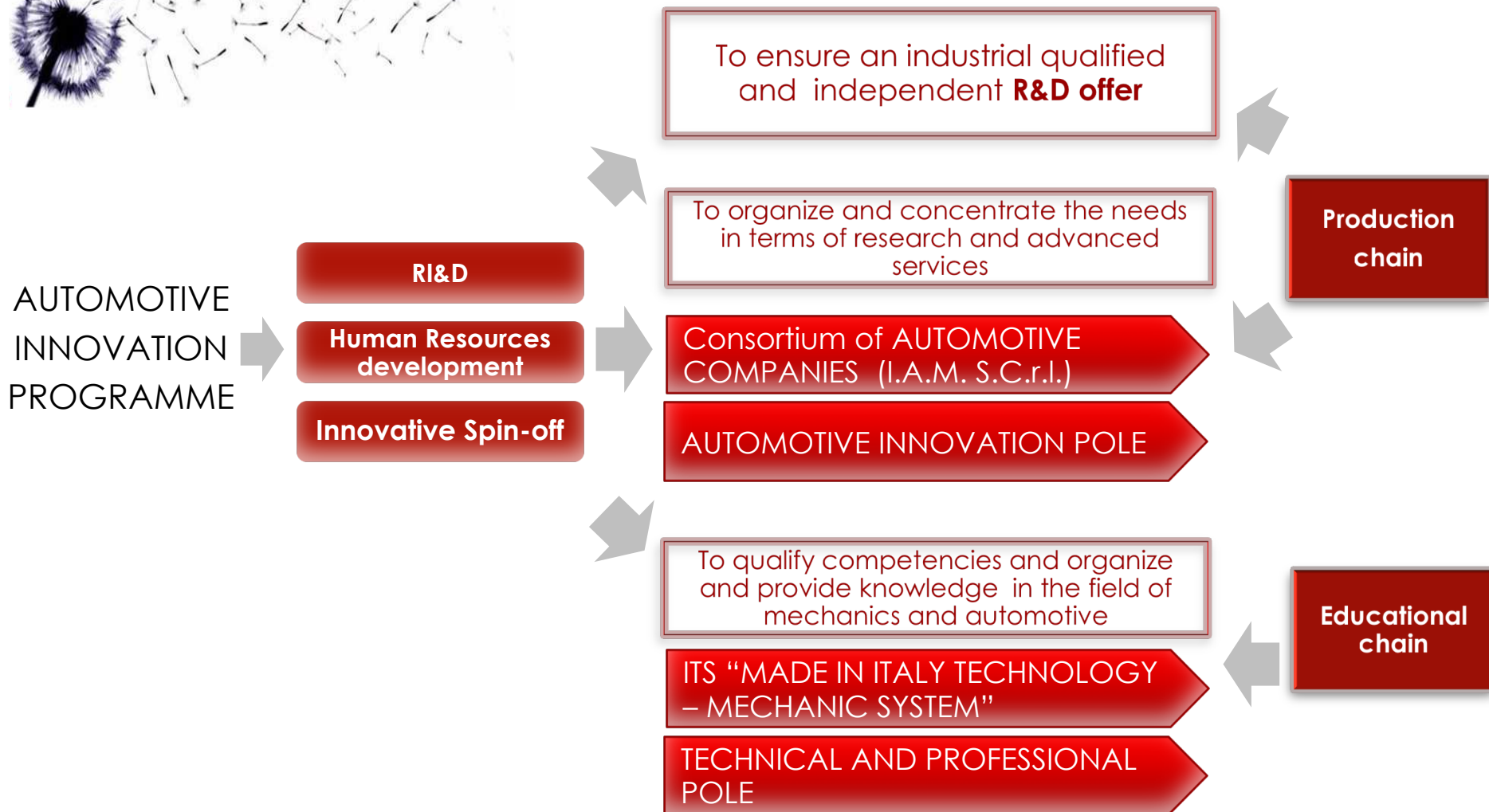


It is necessary to increase competitiveness of the system, increase the competencies and foster the spread of the knowledge by changing the model of supply chain.

AUTOMOTIVE INNOVATION PROGRAMME



From dependence to COLLABORATION...





THE AUTOMOTIVE INNOVATION POLE

AUTOMOTIVE INNOVATION HUB: A LONG



**AUTOMOTIVE
INNOVATION POLE**

2008

CREATION

61 COMPANIES

of which 42 in Abruzzo



2018

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

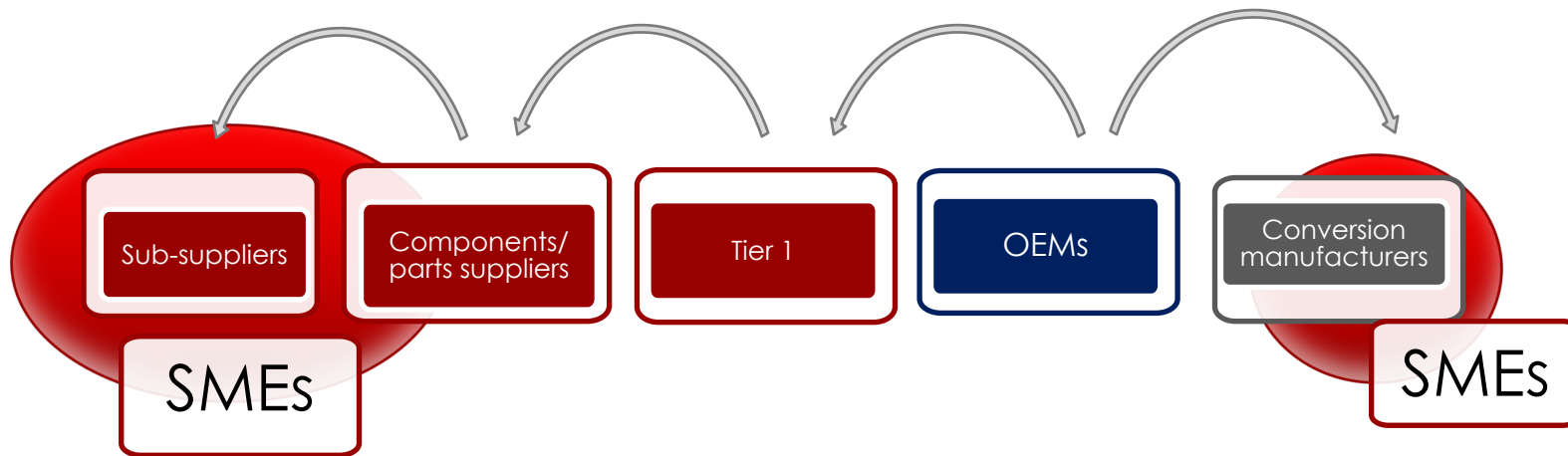
Encourage the interaction between the different actors, the mutual exchange of knowledge and experiences, as well to contribute to the technological transfer, networking and dissemination of information

PARTNER

About 64 partners including enterprises of different sizes as well as research centres, the Engineering Department of the University of L'Aquila and the Polytechnic University of Marche.

Abruzzo Region		42
IND	Large enterprise	10
ME	Medium enterprise	4
SE	Small enterprise	20
SES	Service provider	7
UNI	University	1
Others		19
IND	Large enterprise	9
ME	Medium enterprise	3
PRC	Private research centre	1
SE	Small enterprise	5
SES	Service provider	1
Total		61

SUPPLY CHAIN AND PARTNERS

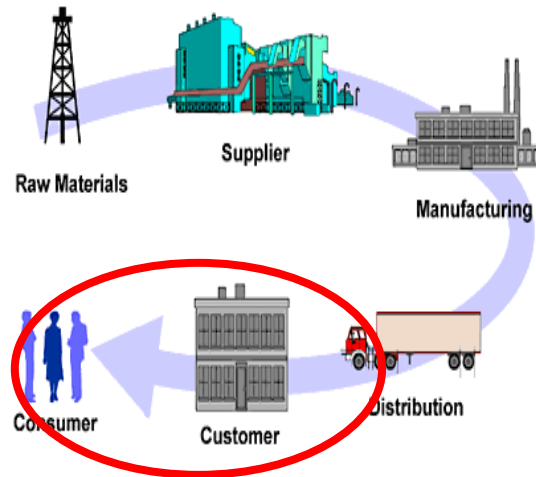


SMART.GREEN.TRANSPORTATION.GOODS

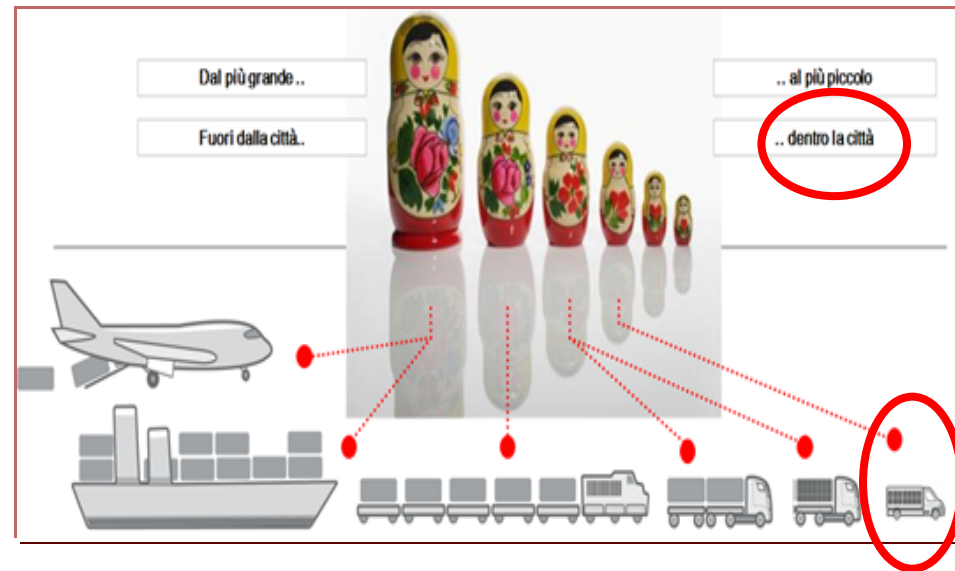


The Automotive Program promotes the establishment of a National Cluster.

**INTELLIGENT, INTEGRATED
ECO-FRIENDLY and SMART
Transport System**



To encourage clustering to organize and put in common expertise, experience and facilities specialized for the transport of end user products (**Last Mile**)



Societal challenges:

- Smart, eco-friendly and integrated transport;
- Actions for the climate, efficiency in terms of raw materials and resources consumption;



RESEARCH AND INNOVATION PROJECTS

R&D projects, financed through the POR FESR 2007/2013 and Technology transfer projects



20 companies and the University of L'Aquila were involved, with an investment of **EUR 4.2 million.**



15 companies were involved with an investment of **EUR 1,5 million.**

NATIONAL (Industria 2015 - Min. Ambiente - PON-MIUR) **AND EUROPEAN** (FP7 – UE) **PROJECTS**



5 companies and IAM and the University of L'Aquila were involved, with an investment of EUR 2,8 million.



4 companies, IAM and the University of L'Aquila were involved, with an investment of EUR 2,4 million.

R&D projects, financed through the PAR FSC ABRUZZO 2007/2013 and Technology transfer projects POR FESR ABRUZZO 2014-20



15 companies and the University of L'Aquila and Politecnico of Marche were involved, with an investment of **EUR 14 million**.



8 companies were involved, with an investment of **EUR 1,5 million**.

PROGRAMMING PERIOD 2014/2020: ACTIVITIES



Promotional activities of the **National Cluster “Trasporti Italia 2020”** (*Italy for Transport 2020*).



H2020 FreeWheel (call H2020-IND-CE-2016-17 – Industry 2020 in the Circular Economy): production of electric vehicles for passenger with reduced mobility by making it modular, easy to manage and easy to re-configure. IAM will involve Lazzerini Srl, as third party, for all things car seats.

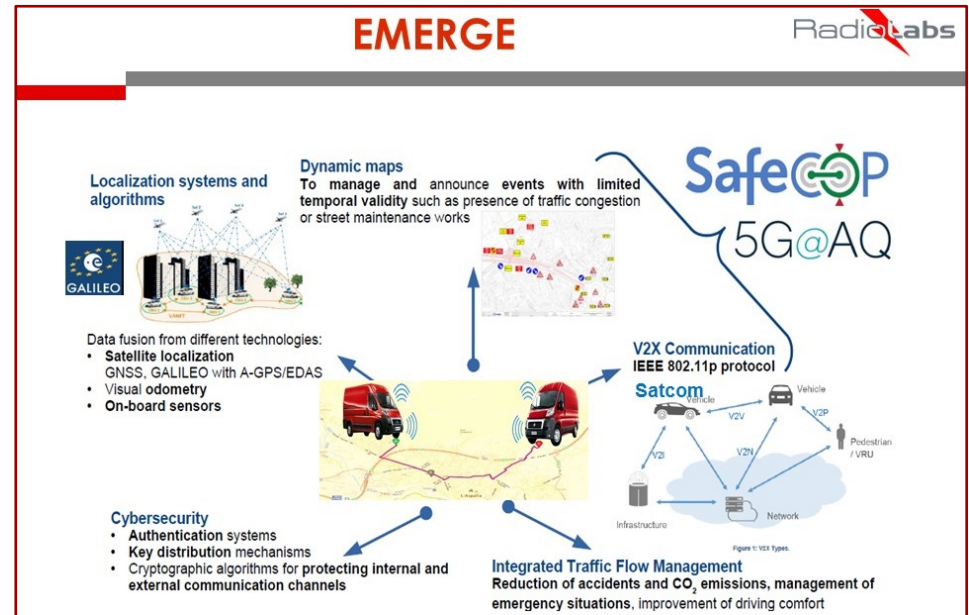


Erasmus + A.U.T.O. 4.0 - *Understanding and Achieving Automotive Training Outcomes 4.0*: is about skills and long-learning for employers, in an effort to achieve a 4.0 Automotive Industry. IAM is project.

PROGRAMMING PERIOD 2014/2020: ACTIVITIES

▪ **EMERGE Project and 5G testing in L'Aquila**

- Partnerships between the **University of L'Aquila**, manufacturers and research centres (**RadioLabs**) and **IAM** (Polo Innovazione Automotive – Automotive).
- The project will benefit from existing business relationships as well as the participation of FCA and Fiat Ducato.



The initiatives foresee:

- the establishment of a **Centre of Excellence** (Centro di Eccellenza) in charge of promoting the research on automated and connected vehicles by using the methodology Galileo (the control centre is based in Abruzzo) and 5G technologies.
- the **Innovation agreement** (Accordo per l'Innovazione), aiming at the development of a navigation/ communication platform for transport systems.
- pilot project on **5G** roll-out in L'Aquila; FCA is also a member.



Automotive Innovation Hub: collaborations

THE NATIONAL CLUSTER:

Means and systems for road and sea mobility



Cluster Trasporti

Sustainable mobility can be defined, in coherence with the European strategic vision and roadmap, as

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

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



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.

ITS – Mechanics and Technical-Professional Pole



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

Twelve different professional courses activated

PLACEMENT

+ 90%

More than 90% within a year of high school diploma

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