

**Boosting A.M. in Europe
through interregional cooperation**
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Results and Implementation of the Piedmont Action Plan

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Outline

- ❖ Background situation in Piedmont and objectives in relation to the MANUMIX project
- ❖ The Action Plan and its implementation: changes, innovation, achievements, findings
- ❖ Recommendations for the next steps

Speakers:

- **Susanna Longo**, Finpiemonte, MANUMIX P.P.
- **Daniela Nepote**, IRES - Regional Institute for Economic and Social Research

Piedmont at a glance



- Population: 4,4 m inhabitants
- More than 440,000 enterprises
 - € 123 billion GDP
 - 7 innovation clusters with about 1.500 members
- More than 26,000 R&D employees
- R&D intensity 1,8% (% GDP invested in R&D)
 - Over 200 private and public R&D centers
 - 380 laboratories
 - 4 universities



A strong tradition in A.M.

Piedmont has a strong historical base in Mechanics and Electronics, integrated with control science and ICT

Mechanics

- Fiat, founded in 1899 Turin, developed different businesses (automobiles / trucks / railways / airplanes / power turbines)
- During the past decades, parts of the FIAT conglomerate was sold to major organisations (ALSTOM, GE, LEONARDO, THALES)
- Olivetti was founded in Ivrea in 1908, specialized in typewriters

Electronics & ICT

- From 1960 Olivetti launched one of the first mainframe computers (Elea 2003) and continued to develop Personal Computers.
- During the same period, the company O.M.O. developed Numerical Control manufacturing machines
- COMAU (owned by Fiat) developed CNC manufacturing machines and robots

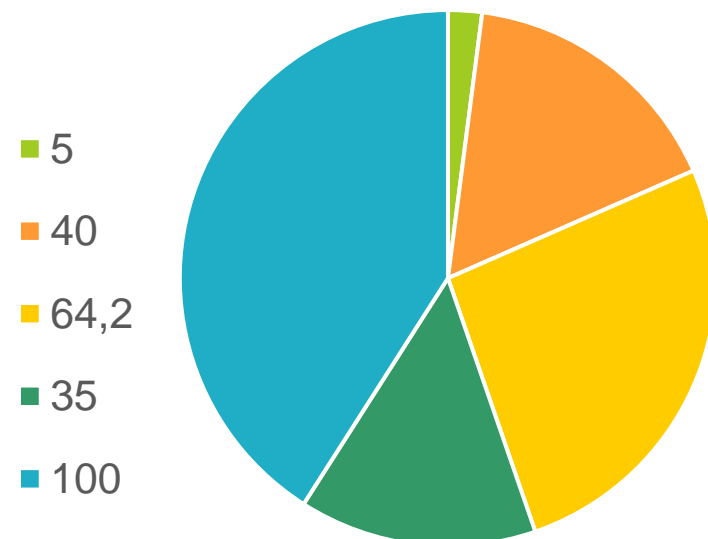
A large number of companies, suppliers of parts, subsystems, SW and production machines continued to grow

Policy mix for innovation and A.M.

A set of instruments/calls set-up in the regional ERDF 14-20

IR2 – Industrialisation of research results	Grant
Poli d'innovazione (innovation clusters)	Grant + Loan
Fabbrica Intelligente (Technology Platform)	Grant
ERANET projects (MANUNET)	Grant
Innovazione MPMI	Loan

TOTAL PUBLIC FUNDING
of approx. 244 M€
allocated in innovation and A.M.



Our objectives in MANUMIX

FOCUS: The monitoring and evaluation system of Regione Piemonte ERDF ROP 14-20 and S3

TARGET: To include 3 additional indicators on Advanced Manufacturing

Extend the scope of evaluation and monitoring activities in order to gain a better knowledge of our **A.M. enterprises** and their **innovation and growth** trends (identify strengths and weaknesses in A.M. enterprises).

Elaborate analyses that will be useful to verify the consistency and impact of the regional **policy-mix for A.M.** and to improve it in the new programming.

The involvement of stakeholders

The Action Plan was drafted and implemented in constant collaboration with the key regional stakeholders:

❖ **Regione Piemonte** – Dir. for Competitiveness of the Regional System (Managing Authority of the OP ERDF) and its Department is responsible for Monitoring and Evaluation.



❖ **IRES Piemonte** – The Regional Institute of Economic and Social Research, has been given the responsibility of official evaluator of the ERDF and ESF OPs, it elaborates data supporting the regional policy making.



❖ **MESAP** – (MEchatronics and Systems for Advanced Production) Innovation Cluster, appointed in 2009 by Regione Piemonte as a reference for innovation clusters for Smart Products and Manufacturing.




The challenges set in the AP

[January 2019 – December 2020]




Run ad-hoc surveys on the new indicators and gain new knowledge about the A.M. enterprises and innovation centres

Cooperate with the ISTAT to obtain updated values of the indicators, in order to elaborate trends and comparisons




Think of a different classification of enterprises (overcome the limits of ATECO/NACE), to be consistent with the S3 specificities



Explore the feasibility of a new ESF/ERDF indicator (additional): how may the ESF funding support the A.M. sector? (skills, competences, training, knowledge).


Achievements

[January 2019 – December 2020]




2 Surveys were run by IRES, addressed to enterprises and innovation clusters (1.300 interviewees).

Updated values from ISTAT were partially obtained and used by IRES for further elaboration in support to decision making



A methodological analysis allowed the identification of trends in enterprises, but the work on a suitable classification is ongoing.



Studies were run on training and occupational needs of enterprises, in relation to the digitalisation in production processes. This task will continue after the end of MANUMIX.

Implementation and lessons learnt

IRES Piemonte – the Regional Institute of Economic and Social Research, is the organisation that has been the most active contributor to the implementation of the Action Plan, due to its role as official evaluator of the ERDF and ESF Operational Programmes.



Daniela Nepote, senior researcher at IRES will give further explanation of the work carried out, the achievements and the lessons learnt during the Action Plan implementation.