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European Union
European Regional
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Foundation of highly specialized competence centres on I4.0 in Italy

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Foundation of highly specialized competence centres

Location of the practice: *ITALY (whole territory)*

Promoter of the practice: *MISE - Italian Ministry of Economic Development*



Ministero dello Sviluppo Economico

Resources available: *73,46 million euro*

- 65% (47,5 million) for the creation of the centers;
- 35% (25,5 million) for innovative I4.0 projects for a maximum amount per project of 200kEuro.



PRACTICE OVERVIEW

The practice is about the foundation of **highly specialized competence centres** on industry 4.0, in the form of public-private partnerships.

They help enterprises to cooperate with research centres and to improve their technological competences.

- ❖ TECHNOLOGICAL FOCUS: Industry 4.0 - Advanced technology
- ❖ TIMESCALE: January 2018-Ongoing
- ❖ RESOURCES AVAILABLE: 73,46 million euro



CORE OBJECTIVE:

- ❖ Creation of **highly specialized competence centres on Industry 4.0**, in the form of public-private partnerships, involving the most relevant actors active in the field of I4.0 (universities, research centres, associations, companies, etc.) in a specific geographical area.

SERVICES OFFERED BY THE COMPETENCE CENTRES:

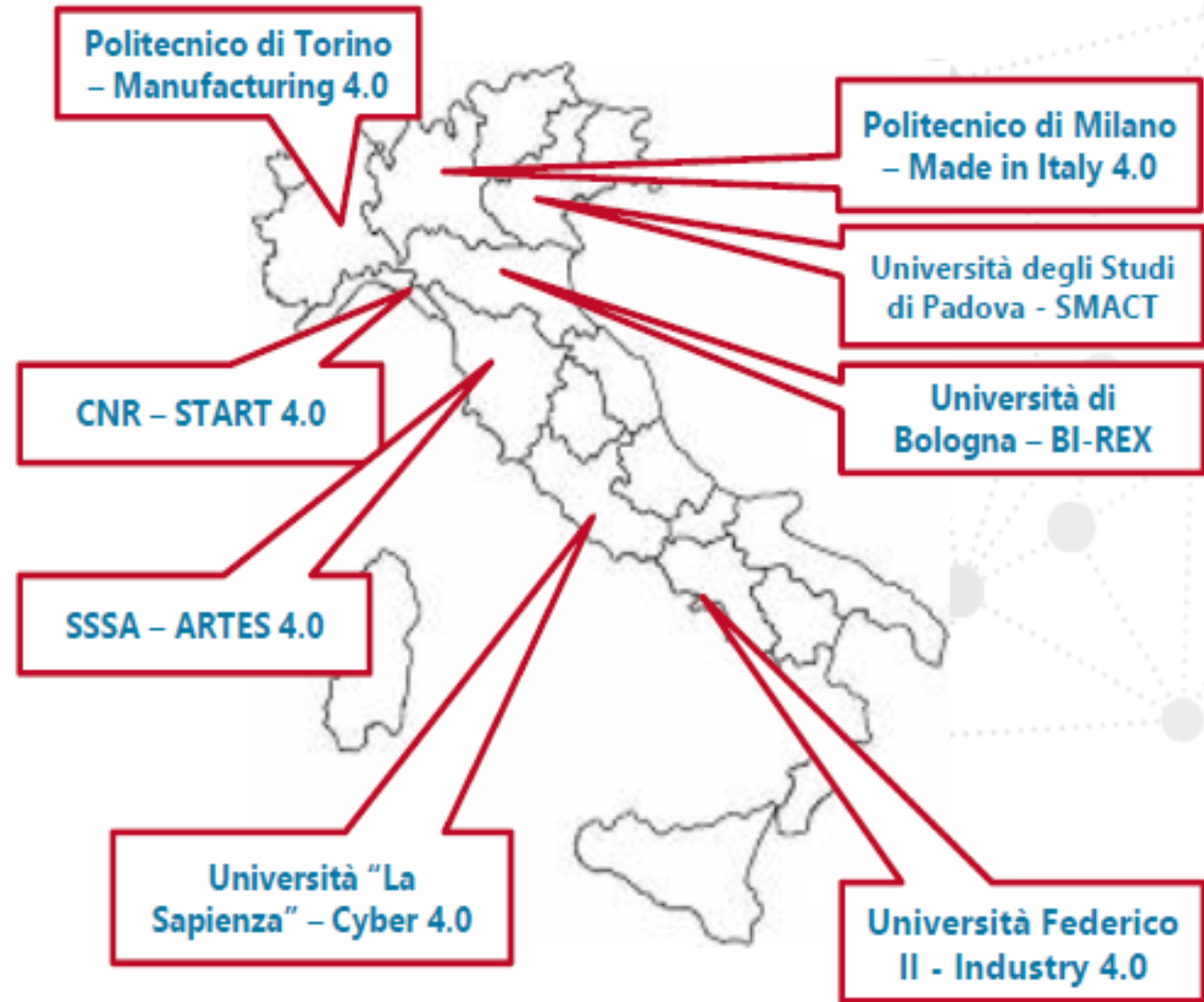
- ❖ **Guidance to enterprises**, especially SMEs, through the preparation of a series of tools aimed at supporting companies in assessing their level of digital and technological maturity.
- ❖ **Training for Companies:** to promote and disseminate skills on I 4.0 through class-training, on-the-job training on the production line or on real applications.
- ❖ **Industrial research and experimental development projects in industry 4.0:** aiming to foster the demand for innovation by companies, in particular SMEs.
- ❖ **Enhance existing realities and actions at a territorial level** to reinforce and consolidate the structures responsible of technology transfer, trying to avoid the fragmentation of the initiatives and the dispersion of resources

The Competence Centers will be entitled to publish specific calls with goals linked to I4.0 technologies and will have to make available competences, specific know-how and other services for a correct implementation of the projects.

The 8 Competence Centers In Italy

EVIDENCE OF SUCCESS:

- ❖ Creation of **8** high competence centres.
- ❖ **All national territory** covered.
- ❖ More than **500 stakeholders** (universities, research centers, scaling-up organisations, companies, associations etc.) involved in the 8 centers all over the country.
- ❖ More than 110 R&D projects supported by the 8 competence centres calls for project
- ❖ 10 calls opened in 2019-2020
- ❖ More than 14,5 M€ granted to industry
- ❖ More than 350 beneficiary industries



The 8 Competence Centers In Italy

❖ Artes 4.0

- presidente_artes4.0@pec-legal.it
- <https://www.artes4.it/>
- Number of associates involve: 127



❖ Competence industry manufacturing 4.0 CIM 4.0

- info@cim40.com
- <https://cim40.com/>
- Number of associates: 25



❖ Made in Italy 4.0-MADE

- info@made-cc.eu
- <https://www.made-cc.eu/>
- Number of associates: 44



❖ BI-REX

- info@bi-rex.it
- <https://bi-rex.it/>
- Number of associates: 57



❖ SMACT

- info@smactcc.it
- <https://www.smact.cc/>
- Number of associates: 42



❖ INDUSTRY 4.0 - medITech

- info@campaniadih.it
- <https://meditech4.com/>
- Number of actors involved: 139



❖ START 4.0

- segreteria@start4-0.it
- <https://www.start4-0.it/>
- Number of associates: 37



❖ CYBER 4.0

- cyber4.0@pec.it
- <https://connext.confindustria.it/2020/>
- Number of associates: 46



How is a competence center structured?



HALL - GALLERIA DELLA ROBOTICA



RESEARCH FACTORY

- ❖ Knowledge, methodologies, and digital tools: from the design to the engineering, from the production management to the delivery to the customer, and the end of the product lifecycle.
- ❖ Demo centers
- ❖ Co-working and meeting spaces
- ❖ Classrooms for the training
- ❖ Competence Centers are partners for innovation activities, technological transfer, applied research, and direct assistance on the implementation of 4.0 tools.

FINAL ASSESSMENT

Difficulties encountered & lessons learned

- ❖ Bureaucratic problems for candidates to formally become **“founding member”**
- ❖ The solution adopted by some parties was to become **supporting members**, with no direct financial contribution to the centre capital, being anyway involved in the project activities and participating to the official meeting.

Potential for learning or transfer

- ❖ Stakeholders willing to **improve the cooperation** between enterprises and research centres.
- ❖ **Boost the industry** economic development process that needs to be encouraged, in particular for Industry 4.0 issues.



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Thank You!

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