



Competence Center MedITech:

una sfida per il Mezzogiorno

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IDEE E STRUMENTI PER L'IMPRESA MANIFATTURIERA

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Details

- Sites: Napoli (Headquarter) and Bari
- Ordinary Members
 - 8 Universities
 - 22 Companies
- Associated Members
 - 109 Companies
- Supporting Members
 - Campania Region
 - Puglia Region







COMPOSITION

PUBLIC MEMBERS

Research organizations

- University of Napoli Federico II LEADER
- University of Salerno
- University of Napoli Parthenope
- University of Campania Luigi Vanvitelli
- University of Sannio
- Polytechnic of Bari
- University of Bari Aldo Moro
- University of Salento





COMPOSITION







COMPOSITION

PRIVATE MEMBERS

Major Italian players in the fields:







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STRATEGIC POSITIONING



Development and application of 14.0 enabling technologies for Supply Chain Integration / System Integration, both in a vertical and horizontal sense:

Vertical Integration

Integration of information along the value chain, promoting the sharing and integration of multicompany products and processes, technological innovations best parctises and organizational models

Horizontal Integration

Integration of 4.0 solutions on specific application domains

Source: MISE 21/2/2016





GOALS

- Enhancing in each field the propulsive effect of big players towards the birth of "I4.0 ecosystems of supply chain and partners"
- Disseminating innovative and safe technological solutions along the supply chain for increasing the production value in each element of the production chain allowing each supply chain system to evolve in an integrated way
- Making the sharing of new adopted technological solutions a strategic element of growth of competitiveness in the international scenario







GOVERNANCE

- Legal Form: Consortium
- Shareholder's Assembly defines strategic guidelines;
- Administrative Board (5 members) outlines operative guidelines supported by Audit Board;
- Scientific Committee (19 members) controls R&D significance of activities;
- CEO performs overall management;
- Six dedicated Managers rule main activities, such as Training (2), Positioning (2), and Projects (2).







SERVICES FOR ENTERPRISES

Assessing digital maturity (Positioning)

Training on I4.0 enabling technologies

Promoting industrial research and innovation projects





Positioning

Support is provided to companies, in particular SMEs, in selfdiagnosis and in the assessment of their level of digital and technological maturity, in identifying potential intervention segments, in technological and organizational solutions and attainable improvements.

Animation actions are promoted, encouraging the sharing of "best practices" and experiences between entrepreneurial and institutional subjects.

This activity is carried out in collaboration and close synergy with the Digital Innovation Hubs active in the Campania and Puglia regions





TRAINING

Three steps towards the acquisition of competences:

- 1. from a general theoretical introduction
- 2. through the deepening of each enabling technology
- 3. to learning by doing on production lines

Theoretical module on transversal themes I4.0



Theoretical and practical thematic modules on enabling technologies





Training module 'by doing' on production lines integrating the contribution of all the enabling technologies on each intervention area







TRAINING INITIATIVES – MOOC 14.0

Thanks to the open access and global dimension, the **MOOCs** (Massive Open On-line Courses) have radically changed the storytelling of distance multimedia training, today increasingly perceived as a cutting-edge didactic response to the training needs of the digital generations.

Federica Weblearning is the Center of the University Federico II for innovation, experimentation and dissemination of multimedia teaching.

With over ten years of experience and a team of young professionals specialized in the key skills of **education technology**, Federica is today the **leading single-university public platform in Europe**. His rapidly growing portfolio includes **150 MOOCs**, covering the main university disciplines.





TRAINING INITIATIVES – MOOC 14.0



To access (registration needed): https://www.federica.eu/c/industria_40





TRAINING INITIATIVES – MOOC 14.0

Enabling Technologies	Professors
Advanced Manufacturing Solutions	Bruno Siciliano (DIETI)
Additive Manufacturing	Antonino Squillace (DICMAPI) Massimo Martorelli (DII)
Augmented Reality	Giuseppe Di Gironimo (DII) Pasquale Arpaia (DIETI)
Simulation	Cino Bifuco (DICEA)
Horizontal/vertical Integration	Gino Carrino (DICMAPI) Piero Salatino (DICMAPI)
IoT - IIoT	Leopoldo Angrisani (DIETI)
Cloud	Roberto Canonico (DIETI)
Cybersecurity	Simon Pietro Romano (DIETI)

Big Data and analytics

Antonio Picariello (DIETI) Biagio Palumbo/Roberta Siciliano (DII) Giuseppe Longo/Guido Russo (DF)





INNOVATION AND R&D PROJECTS

MedITech intends to promote innovation, industrial research and experimental development projects characterized, preferentially, by a sufficiently high starting Technology Readiness Level (TRL), normally at least equal to 5.

This with the aim of completing the development of technologies and production processes of which there is already evidence of feasibility at least at the prototype level.









INVESTMENTS

- Laboratories
 - ♦ IoT & Security & Sensors
 - Additive Manufacturing & Advanced Materials
 - ♦ Robotics & Machine Learning
 - ♦ Cloud & Big Data
 - ♦ Drones & Virtual Reality
 - ♦ Digital Technologies for Constructions
 - ♦ I4.0 Technologies for Energy
- Demo-lines
 - Educational and demonstration production lines equipped as cyber-physical systems
- Fab-labs





[50%]

FUNDING SOURCES [%]



[24%]

Ministry of Ecomic
Development
Private Members



HOLISTIC PARADIGM

Working on all the enabling technologies for industry 4.0 is the direct consequence of the following choices:

- Vertical integration of supply chain, horizontal integration of technologies
- Integration between theoretical and practical aspects in training
- Integration between the orientation phase, training and coaching for the launching of projects by companies

The red thread of all interventions emerges: a holistic approach to a technological, economic, social and political challenge







THANK YOU

