







TRENDS OF LABOUR MARKET AND ECOSYSTEM 4.0

Valeria Iadevaia Massimo Resce

Seconda Conferenza Internazionale
"Technology, Employment and Labour Market Institutions"

13 - 14 december 2018 - Università degli studi Roma Tre - Scuola di economia e studi aziendali



MODELS, GOVERNANCE AND ROLE OF DIGITAL INNOVATION HUBS AS PROMOTERS OF AN ECOSYSTEM 4.0 FOR TERRITORIAL INNOVATION AND CREATION OF SKILLS

DIH Services

Innovation activities: opportunities for digitisation, developing and validating innovative solutions;

Business development: helping companies to apply their solutions, assess business implications, and manage the changes;

Skills creation: building innovation capacity through enriching human capital



DIH Piemonte

T2i Technology Transfer and Innovation

(Veneto, Trentino-Alto Adige and Friuli-Venezia Giulia)

SMILE ER DIH (Smart Manufacturing Innovation & Lean Excellence Center)

Marche 4M.0 (Marche innovation Machine and Market Manufacturing 4.0

Lazio CICERO (CPS / IOT Ecosystem of excellence for manufacturing innovation)

Puglia Manufacturing (CPS / IoT Hub for Regional Digital Manufacturing SMEs)

- Promoted by Turin Polytechnic, University of Turin, Mesap and Industrial Trade Association of Turin, with focus on advanced laser-based applications and additive manufacturing
- Chambers of Commerce of Treviso-Belluno, Verona and Venice, Rovigo, supported by Confindustria Servizi Innovativi e Tecnologici (CSIT) with a focus on cloud-based hpc simulation.
- Funded by Unione Parmense degli Industriali and University of Parma with focus on Lean Innovation, Cyber Physical Systems (CPS) and Industrial Internet of Things (IIoT). (Emilia Romagna)
- Promoted by Confindustria Marche with focus on HPC / robotics
- Promoted by Unindustria -Roma, Frosinone, Latina, Rieti, Viterbo and specialized in Cyber-Physical Systems (CPS) and the Internet of Things (IoT).
- Promoted by Confindustria Bari BAT, Polytechnic of Bari and Mechatronic District of Puglia, specializes in Cyber Physical Systems (CPS) and the Internet of Things (IoT).



Regional Platform Industry4.0
Toscana

 Promoted by the Tuscany Region with the participation of fifteen research organizations that make available to the Tuscan SMEs a wide range of innovative technological skills and solutions

IP4FVG
Industry Platform 4 FVG

 Composed of 4 territorial points: 1. ADVANCED MANUFACTURING 2. DATA ANALYTICS & ARTIFICIAL INTELLIGENCE 3. DATA OPTIMIZATION & SIMULATION. 4 INTERNET OF THINGS

Dih Lombardia

• It is a network of 8 territorial hubs (one for each province or group of provinces)

Emilia Romagna ER Smile DIH (Smart Manufacturing Innovation for Lean Excellence center – DIH)

- Covers a multi-regional territory (Reg. Emilia-Romagna + prov. Pavia, Cremona, Mantua, La Spezia, Massa Carrara and Livorno) to support the production systems of that territory (district of mechanics, mechatronics, home, fashion, food and biomedical)
- Sharing strategies and development policies for the manufacturing industry

Veneto Dih

 Recently Confindustria Veneto and the Territorial Associations have signed a Pact on Industry 4.0 for the creation of a centralized coordination to develop common actions among the provincial hubs



DIH UNIVERSITIES AND ENTERPRISES

- Based into Universities and/or Science and Technology Parks
- Focused on research /innovation activities
- They collaborate with other Universities also on an international level

DIH ITS AND ENTERPRISES

- Focused on creation of skills 4.0
- Based on a strong school/companies relationship
- Professional needs assessment
- Training courses for development of new professional profiles

5. KEY POINTS



ROLE AND
DEVELOPMENT
OF DIGITAL
INNOVATION
HUBS

- Increase the digital culture of companies and strengthen the network culture to make innovation possible especially for SMEs
- Put together what already exists, actors of innovation and services, developing an ecosystem approach
- Even if a basic model is needed, the hubs can take different forms to better respond to specific needs of the territory in which they operate
- Strengthen their presence on the territory, their proximity to companies, their knowledge of the territory → enhancing the territorial capital and local economy

SKILLS

- Skills as a cornerstone of the DIH service offer: bridging the skills gap will be key point in enabling SMEs to climb the digitisation ladder
- **Put workers at the centre**: training must serve the needs of workers as well as the companies for which they work.
- **Training-by-doing**: not all training needs to be delivered in a classroom. SMEs and their employees can also learn 'on the job'.
- Integrate research with training: company projects can provide opportunities to development of digital skills through hands-on involvement with new technologies.

Digital Innovation Hubs Working Group Report from the Working Group Meeting on Digital Skills



INAPP - Istituto Nazionale per l'Analisi delle Politiche Pubbliche Corso d'Italia, 33 - 00198 Roma - tel. +39.06.85447.1 - www.inapp.org