

# **TRENDS OF LABOUR MARKET AND ECOSYSTEM 4.0**

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## 1. DIGITAL INNOVATION HUBS

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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;

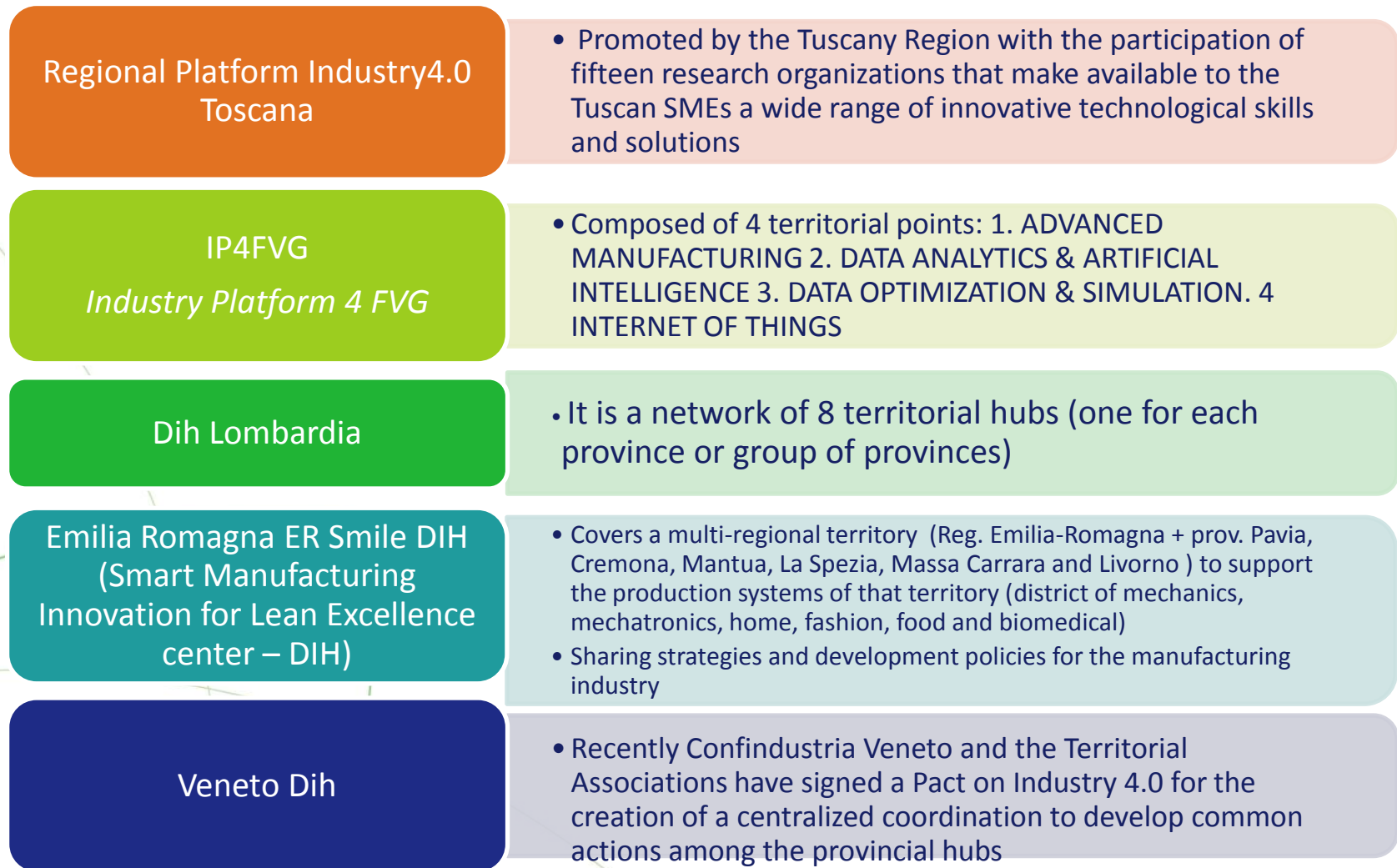
**Business development:** helping companies to apply their solutions, assess business implications, and manage the changes;

**Skills creation:** building innovation capacity through enriching human capital

## 2. MODELS: EUROPEAN HUBS NETWORK

<p><b>DIH Piemonte</b></p>	<ul style="list-style-type: none"> <li>• Promoted by Turin Polytechnic, University of Turin, Mesap and Industrial Trade Association of Turin ,with focus on advanced laser-based applications and additive manufacturing</li> </ul>
<p><b>T2i Technology Transfer and Innovation</b> (Veneto, Trentino-Alto Adige and Friuli-Venezia Giulia)</p>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<p><b>SMILE ER DIH (Smart Manufacturing Innovation &amp; Lean Excellence Center)</b></p>	<ul style="list-style-type: none"> <li>• 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)</li> </ul>
<p><b>Marche 4M.0 (Marche innovation Machine and Market Manufacturing 4.0)</b></p>	<ul style="list-style-type: none"> <li>• Promoted by Confindustria Marche with focus on HPC / robotics</li> </ul>
<p><b>Lazio CICERO (CPS / IOT Ecosystem of excellence for manufacturing innovation)</b></p>	<ul style="list-style-type: none"> <li>• Promoted by Unindustria -Roma, Frosinone, Latina, Rieti, Viterbo and specialized in Cyber-Physical Systems (CPS) and the Internet of Things ( IoT).</li> </ul>
<p><b>Puglia Manufacturing (CPS / IoT Hub for Regional Digital Manufacturing SMEs)</b></p>	<ul style="list-style-type: none"> <li>• 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).</li> </ul>

### 3. MODELS: REGIONAL NETWORK



#### 4. MODELS: ENTERPRISES, UNIVERSITIES AND TRAINING

##### 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.



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