Smart Factories in EU
Digital Innovation HUBs, next steps
The Policy Context

42% of Danish companies are highly digitalized vs 11% in Romania and Latvia. Hungary is also drop behind EU average.

38% of large companies in Hungary are highly digitized while this is the case for just 13-22% of SMEs.

Enterprises with High levels of Digital Intensity, Year 2017

Enterprises with High levels of Digital Intensity, by Enterprise size (small, medium, large), Year 2017

Source: European Commission, Digital Scoreboard
Digitizing European Industry (DEI)

The Digitalizing European Industry (DEI) initiative aims

- Coordination of initiatives for digitizing industry
- Co-investing in Europe’s digital innovation capacities
- Providing the appropriate regulatory framework conditions
- Providing human capital with the necessary skills for the digital transformation

Objectives of Smart Factories Project

- Provide methodology to select the most appropriate DIHs for implementation
- Collect and assess applications from potential DIHs, conduct interviews and recommend DIHs to the EC to participate in the programme
- Help the chosen DIHs reach their potential by mentoring and coaching activities
- Develop policy recommendations for improvement
While DIHs may vary in form, focus and founders they all share the common goal of:

**Helping companies to become more competitive by improving their business/production processes, products and services through digital technology.**

DIHs help organizations digitize by providing services themselves and, crucially, by acting as an orchestrator to link and connect different stakeholders.

- **Access to the latest knowledge, expertise and technology**
- **Connections to investors, access to financing for digital transformations**
- **A link between users and suppliers of digital innovations across the value chain**
- **Opportunities to foster synergies between digital and other key enabling technologies**
DIHs in (west) EU

- Organic and Large Area Electronics
- Micro and nano electronics, smart system integration
- Sensors, actuators, MEMS, NEMS, RF
- Photonics, electronic and optical functional materials
- Screens and display technologies
- Broadband and other communication networks (e.g. 5G)
- Cyber physical systems (e.g. embedded systems)
- Robotics and autonomous systems
- Internet of Things, Artificial Intelligence and cognitive systems
- Location based technologies, Interaction technologies
- Cyber security
- Advanced or High performance computing
- Data mining, big data, database management
- Augmented and virtual reality, visualization
- Simulation and modelling
- Gamification
- Software as a service and service architectures
- Cloud computing
- Additive manufacturing (3D printing)
- Laser based manufacturing
- ICT management, logistics and business systems
- Internet services
- New Media technologies

## Smart Factories in EU13 Member States

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of submitted applications</th>
<th>Number of applications per country as suggested</th>
<th>Number of selected DIHs by the EC’s Steering Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poland</td>
<td>34</td>
<td>7</td>
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<tr>
<td>Romania</td>
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<td>Slovakia</td>
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<td>3</td>
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<tr>
<td>Lithuania</td>
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<tr>
<td>Cyprus</td>
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<td>1</td>
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<tr>
<td><strong>Hungary</strong></td>
<td><strong>7</strong></td>
<td><strong>2</strong></td>
<td><strong>3</strong></td>
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<tr>
<td>Latvia</td>
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<td>Estonia</td>
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<td>Slovenia</td>
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<td>1</td>
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<tr>
<td>Malta</td>
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<td>1</td>
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<td><strong>Total</strong></td>
<td><strong>137</strong></td>
<td><strong>30</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>
DIHs in EU13

Profile description of each DIH can be accessed through smartfactories.eu website
Hungary’s Digital Innovation HUBs

**AMLab, Szombathely**

**Coordinator:** Pannon Business Network Association  
**Type of organisation:** Industry associations  
AMLab main objective is to become the service provider for promoting and assisting digitization of SMEs in Western Hungary. In the forefront are additive manufacturing, maturity technology survey and their broad applications.

http://www.pbn.hu

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**innomine Digital Innovation Hub, Budapest**

**Coordinator:** innomine accelerator  
**Type of organisation:** Incubators and accelerators  
innomine DIH aims at fostering the adoption of Industry 4.0 solutions in order to support digitization of industry by connecting local SMEs to the most innovative Industry 4.0 technologies. The key objective is to promote Industry 4.0 solutions, set up a provider’s hub and create a co-creation community to foster the start of new companies and the digitization of manufacturing SMEs.

http://www.innomine.com

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**Digital Innovation Hub of Kecskemét, Kecskemét**

**Coordinator:** IQ Kecskemét Industrial Research Ltd.  
**Type of organisation:** Incubators and accelerators  
Kecskemét Digital aims at becoming a regional center for entrepreneurial support in digital transformation. The objective is to provide practical advice and support to the SMEs of the region in order to foster digital technologies development and the creation of an eco-system for innovation.

http://iqkecskemet.hu/en
Next Steps

Utilization of DIH network:
- Main responsibility is on our DIHs
- Building ecosystems considering DIHs in the region or in the west
- Already existing initiatives

Expansion of DIHs within Hungary:
- Copy EU initiative locally to develop new HUBs
- Reached out to earlier candidates
- Involve existing DIHs in the programme

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  - Copy EU initiative locally to develop new HUBs
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Thank you!

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