



Unione Parmense degli Industriali



smi)e

il Digital Innovation Hub europeo per la Fabbrica 4.0



CONFINDUSTRIA SERVIZI
INNOVATIVI E TECNOLOGICI



Parma, 27 ottobre 2016



ICT Innovation for manufacturing SMEs

Proposal:

smi)e Smart Manufacturing Innovation Lean Excellence centre

For the establishment of a feasibility study for a Regional Digital Manufacturing Innovation (RDMI) Hub

**PARMA
(ITALY)**



**University
of Parma**



Unione Parmense degli Industriali





ICT INNOVATION FOR MANUFACTURING SMES

I4MS (ICT Innovation for Manufacturing SMEs) is the initiative promoted by the EC to **support** the European leadership in manufacturing through **the adoption of ICT technologies**. In fact, Europe's competitiveness in that sector depends on its capacity to deliver highly innovative products, where the innovation often originates from advances in ICT.

Therefore, **I4MS aims at promoting leading edge technologies**, developed in FP7 large ICT projects, in the following areas:

- ✓ Robotics
- ✓ HPC cloud based simulation services
- ✓ Laser based applications
- ✓ Intelligent sensor-based equipment

The initiative is dedicated to the whole European manufacturing industry with special focus on SMEs to address their needs to access to technology, infrastructures and new markets.



OPEN CALL PROCESS DIGITAL INNOVATION HUBS

In the two phases of the open call process, a total number of **41 consortia submitted proposals** to prepare **feasibility studies** to **establish Digital Innovation Hubs (DIH)** in their regions.

The evaluation process resulted in the selection of **29 proposals** which will receive financial support as well as mentoring and coaching services. Contracts will be established between relevant I4MS projects and the DIH consortia.

The mentoring and coaching will start at a summer school which will also serve as the kickoff meeting and which is to be held in September.



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Overview selected proposals

IoT/CPS

Robotics

HPC/Cloud-Based Modelling

Laser



PROPOSAL

The goal of **SMILE** project is to create a technological transfer between academia and industry, by supporting companies to **change business models** thanks to the **digitalization** of their operations and the implementation of **innovative lean based principles** supported by **smart technologies**.

Our focus will be on **Cyber-Physical Systems (CPS)** and **Internet of Things (IoT)** technologies as a way to enhance **manufacturing automation** and **operation excellence**

During the feasibility study we will:

- *define the business model of the Hub*
- *define the portfolio of services offered by the Hub*
- *map the Regional ecosystem and then define the list of possible use cases to be developed in the next step.*

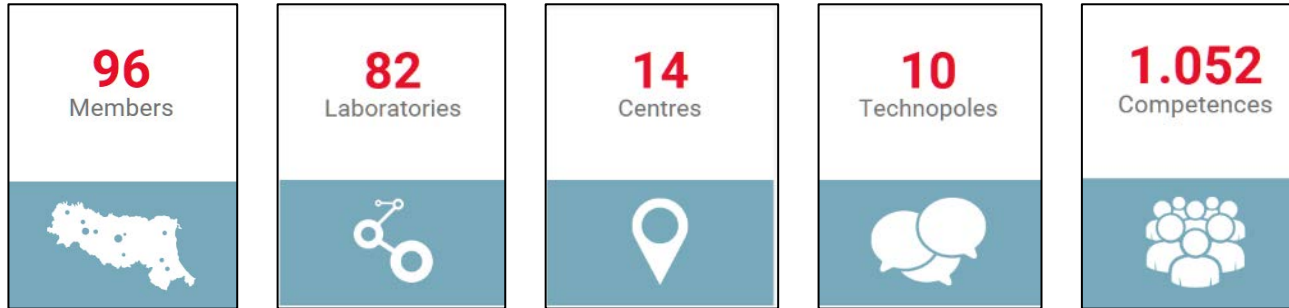
CONSORTIUM PARTNERS

NO.	CONSORTIUM PARTNER	COUNTRY
1	<p>University of Parma</p> <p>Almost 900 professor and researcher – main departments involved is management engineering, ICT and mathematics</p> <p>Skill: new business model development, lean principles, operational excellence, industrial internet of things, cyber physical system</p>	Italy
2	<p>Unione Parmense degli Industriali</p> <p>Italian Association of manufacturing and IT companies</p> <p>- Knowledge of Regional ecosystem, involvement of Regional SMEs</p>	Italy
3	<p>Casappa SpA</p> <p>Mid-cap manufacturing company (oil dynamic pumps and systems)</p> <p>- “pioneer” in industry 4.0 implementation</p>	Italy
4	<p>CDM Technoconsulting SpA</p> <p>IT system integrator</p> <p>- Knowledge in IoT</p>	Italy



EMILIA ROMAGNA COMPETENCE CENTERS NETWORK

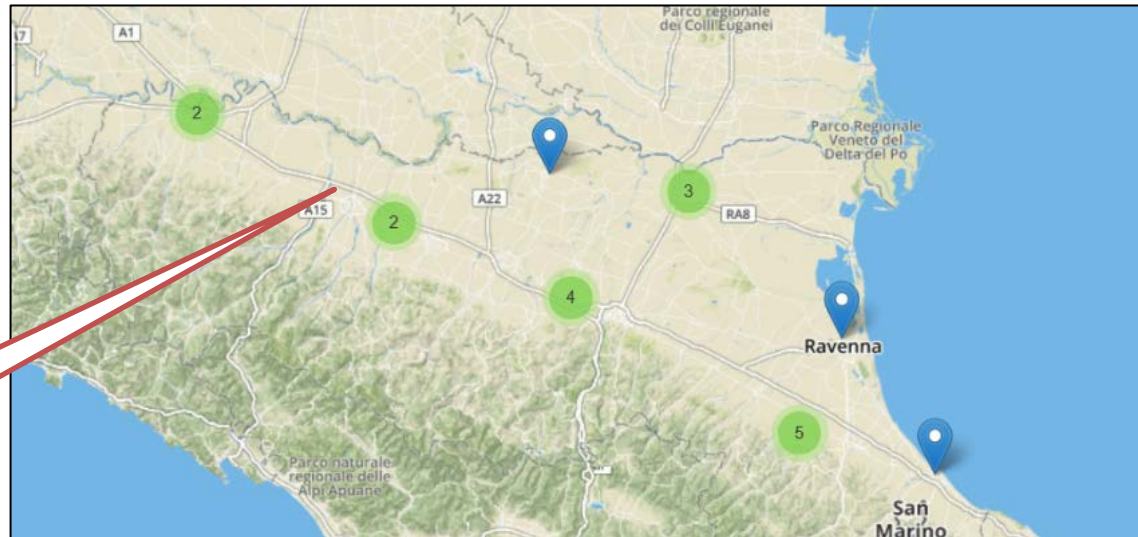
Members, Laboratories, Centres, Technopoles, Competences



<http://www.retealtatecnologia.it/>



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VALUE PROPOSITION

Technologies alone are particularly effective in the short-medium term. To get a long term competitive edge it is necessary to **combine technologies with adequate business models**

Lean has proven to be successful in manufacturing optimization (and not only in manufacturing ...), but **lean cannot remain a paper and pencil based technique.**

To be fully exploited, it must be supported by **brand new IT tools fully integrated with the manufacturing environment.**

ORGANIZZAZIONE

11.00 Technical Focus Group: 4 sessioni parallele per consentire ad imprese, centri di ricerca, start-up, ecc. di approfondire e/o confrontarsi a rotazione sui temi che riguardano:

- Ambiti di ricerca e trasferimento tecnologico del DIH (*IoT: Internet Of Things e CPS: Cyber-Physical Systems*);
- Modalità e regole di interazione col DIH per rendere più efficaci i progetti di ricerca e sviluppo (*sia di tipo collaborativo che individuale*);
- Aspetti che riguardano brevetti, marchi e proprietà intellettuale;
- Agevolazioni fiscali, accesso al credito e finanziamenti a sostegno delle attività condotte col DIH.

12.30 Conclusione dei lavori

14.00 Technical Focus Group (sessioni pomeridiane su prenotazione)

I tavoli tecnici di approfondimento e confronto sulle medesime tematiche rimarranno a disposizione di imprese, centri di ricerca, start-up, anche nel primo pomeriggio, dalle **14.00** alle **15.00**.



Grazie per l'attenzione
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*I lavori proseguono nella sala
adiacente dopo il coffee break
(4 TECHNICAL FOCUS GROUP)*