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Funded under the EU's Horizon 2020 programme, MIDIH aims to support and link up national and local initiatives for the digitisation of manufacturing industry, to boost investment and collaborations through strategic partnerships and networking.



Cyber-Physical Systems/Internet of Things (CPS/IoT)



€7,999,157



1 October 2017 — 30 September 2020

MIDIH will connect operating Digital Innovation Hubs focusing on CPS (Cyber-Physical Systems) and IoT (Internet of Things) technologies into a pan-European network capable of more effectively addressing the needs of European industry, notably SMEs and midcaps.

By pooling the skills and resources of individual DIHs and providing a cross-European unifying operational framework, MIDIH will allow developers, corporates, SMEs and start-ups across Europe to:-

- Understand and master a broad range of new technologies and related business models by accessing skill building services;
- Experiment and test new processes and products by accessing the latest technologies in a wide range of testing facilities and receiving qualified support for customisation and project design; and
- Boost and internationalise their own business through cross-border demand-offer brokerage, access to markets and access to finance.

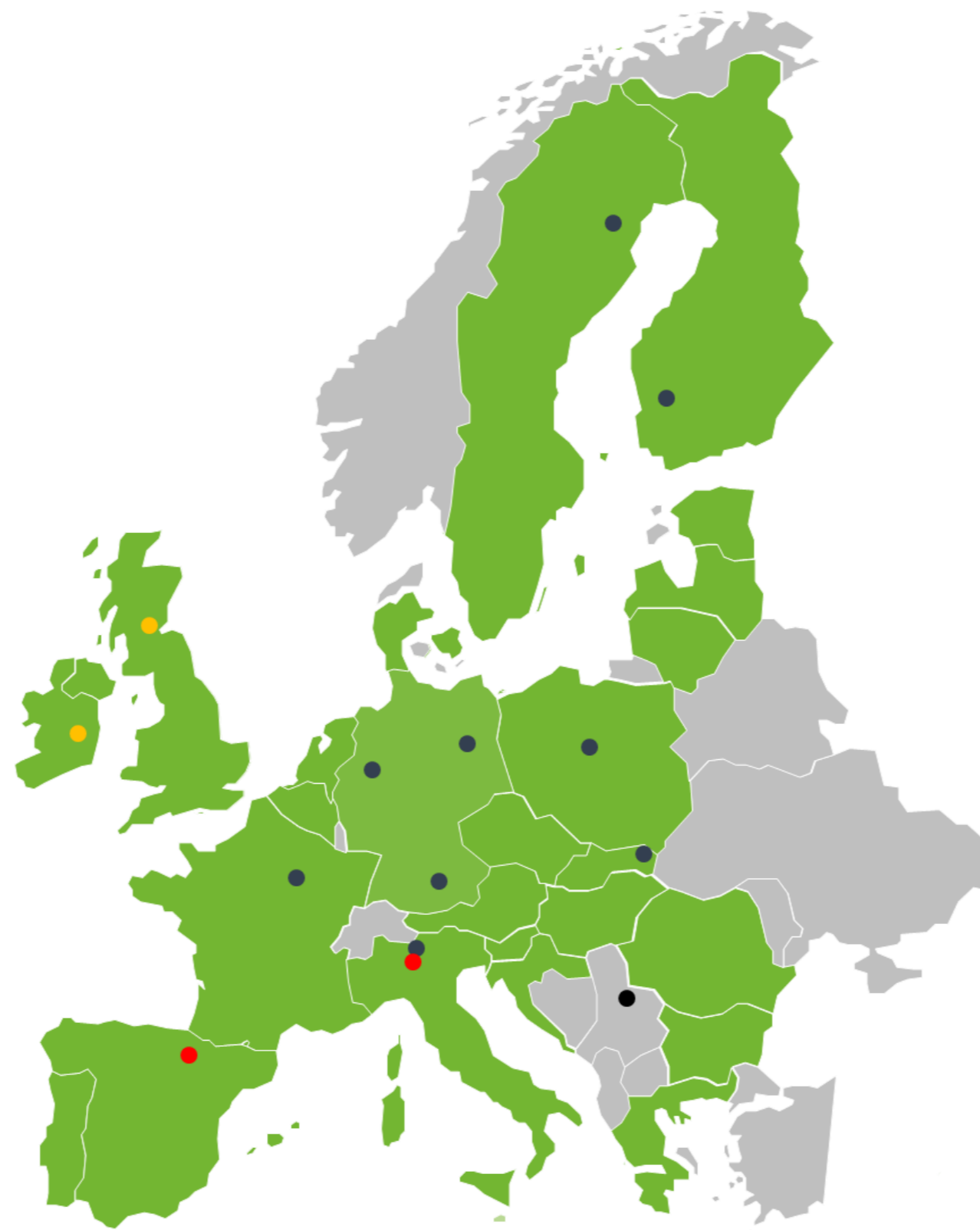
Funded under Phase 3 of the EU's I4MS (ICT Innovation for Manufacturing SMEs) programme, MIDIH builds upon BEinCPPS (Business Experiments in Cyber-Physical Production Systems), a project funded under Phase 2 of I4MS with the goal of improving the adoption of Cyber-Physical Production Systems throughout Europe.

€1.92 million of the €7.99 million MIDIH budget will be available for SME experiments in CPS/IoT via two open calls in 2018 and 2019.

### Partners

MIDIH brings together 21 partners from 12 European countries:-

- 9 CPS/IoT Competence Centres
- 2 Teaching Factories
- 2 Regional Manufacturing Digital Innovation Hubs (Scotland and Ireland)
- 2 Pan-European Digital Innovation Hubs:
  - EIT Digital, Industrial Data Spaces Assn
- Industrial case study providers:
  - FIAT, IDS, NECO
- 3 Open Source digital platform providers:
  - ATOS, Engineering, FIWARE Foundation
- Two IoT specialised SMEs:
  - NISSA (Serbia) and HOPU (Spain)



### Scottish Digital Innovation Hub

The Scottish RMDIH is led by the Advanced Forming Research Centre at the University of Strathclyde in partnership with Scotland's economic development agency, Scottish Enterprise, and Scotland's Innovation Centre for Sensor and Imaging Systems, CENSIS.



The primary focus of the Scottish RMDIH will be to create economic benefit for the region by facilitating the adoption and implementation of CPS/IoT technologies amongst manufacturing SMEs in Scotland. This will involve a three-pronged approach:-

1. Providing education on and access to CPS/IoT technologies for manufacturing SMEs in Scotland.
2. Raising awareness of the advantages of CPS/IoT technologies amongst those manufacturing SMEs throughout Scotland who have not yet considered adopting such technologies for their business. Awareness rais-

ing activities will also target finance providers, as they must be made aware of the need for investment in digital manufacturing technologies.

3. By identifying where there is a need for new CPS/IoT solutions and providing resources for their development, the RMDIH will stimulate improved linkages to, and commercialisation activity amongst, manufacturers and suppliers of I4MS-related equipment within the region.

A broad range of services is envisaged. These can be grouped into five headings as follows:-

1. Awareness raising activities — these will also target finance providers, as they must be made aware of the need for investment in digital manufacturing technologies.
2. Education and training — developing and running workshops/short courses on:
  - CPS/IoT and related digital manufacturing technologies.
  - Digital business models, to encourage SMEs to think differently and consider changing their business model.
3. Technology demonstrators — practical, relevant examples of CPS/IoT technologies to encourage their adoption and show companies what is possible.
4. One-to-one support for the adoption of CPS/IoT technologies. This will include:
  - Initial assessment of the company's manufacturing operation to determine suitability for CPS/IoT technologies.
  - Identification of potential commercial solution providers.
  - Assistance with the specification and implementation of appropriate CPS/IoT solutions.
  - Assistance with the business case and raising finance for capital expenditure.
5. Stimulation, facilitation and coordination of RTD projects for new CPS/IoT solutions.

To help deliver these services, the RMDIH will work in partnership with other organisations within Scotland's extensive innovation ecosystem wherever necessary.



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