



Intelligent Systems for Production and Resource Optimisation in Industry



Region: Mid West , Ireland

Tech: Cyber-Physical Systems (CPS)

Intro: European Hub for Digital Innovation in Manufacturing

Our RDMIH provides SMEs with access to expertise & enables technology transfer and dissemination of best practice and new innovations from a leading Competence Centre in the Ireland Mid-West Region (Over 15,000 people employed in Manufacturing).

- The Digital Innovation Hub (DIH) initially focused on the development, integration and implementation of cyber-physical systems (CPS) in Manufacturing SMEs
- The DIH currently supports pilot implementations of I4MS technologies in existing manufacturing facilities and the growth and development of companies addressing the use of advanced ICT in industry.

Why is the hub needed?

To engage with industry, particularly SMEs, on Digital Transformation

To develop use-case experiments to demonstrate best practice and new innovations

To collaborate with SMEs, Multinational Companies, Regional Agencies and Government

To showcase I4MS Integrated Projects (IPs) and Innovation Actions (IAs) in the region.

USP:

- Single point of contact for regional SMEs to access applied research with practical applications.
- The concept of supporting SMEs in this way and promoting the adoption of I4MS Technologies does not currently exist in the region and the IS4PROD Digital Innovation Hub has the potential to add significant value to manufacturing facilities in the region.

Services (How is the HUB addressing this need):

- Development and demonstration of Cyber-Physical Systems (CPS)
- Providing access to expertise and Competences
- Development of both Hardware and Software Solutions
- Brokerage with ICT Development SMEs

Industry Partners:

- Limerick for Engineering Consortium
- Limerick for IT Consortium
- Precision Turned Parts Association (PTMA)

Follow up Project in Cyber Physical System (BEinCPPS)

- CPPS for Production and Resource Optimisation
- Focused on the capture of production data, the optimisation of the production processes, the provision of operator feedback and the development of key performance indicators (KPIs) through the integration of cyber-physical systems at the machine level

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