

PROJECT OVERVIEW

José Ferreira (UNINOVA)



DIH4CPS is funded by the European
Commission under contract 872548



PROJECT OVERVIEW

DIH



DIH4CPS

Fostering DIHs for Embedding Interoperability in Cyber-Physical Systems of European SMEs

SME

Establish and Empower a Network of CPES

Widen and Unchain the Network of CPES

Create a System for Intelligent Navigation in the Network

Use Network to Support CPES Technology Uptake

Sustain the Network and leverage Impact

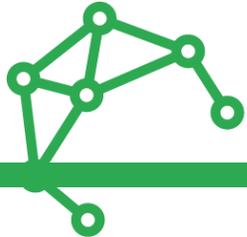
DIH

SME

DIH

DIH





PROJECT OVERVIEW



3 Years (2020-2022)



33 Partners from 10 EU Countries



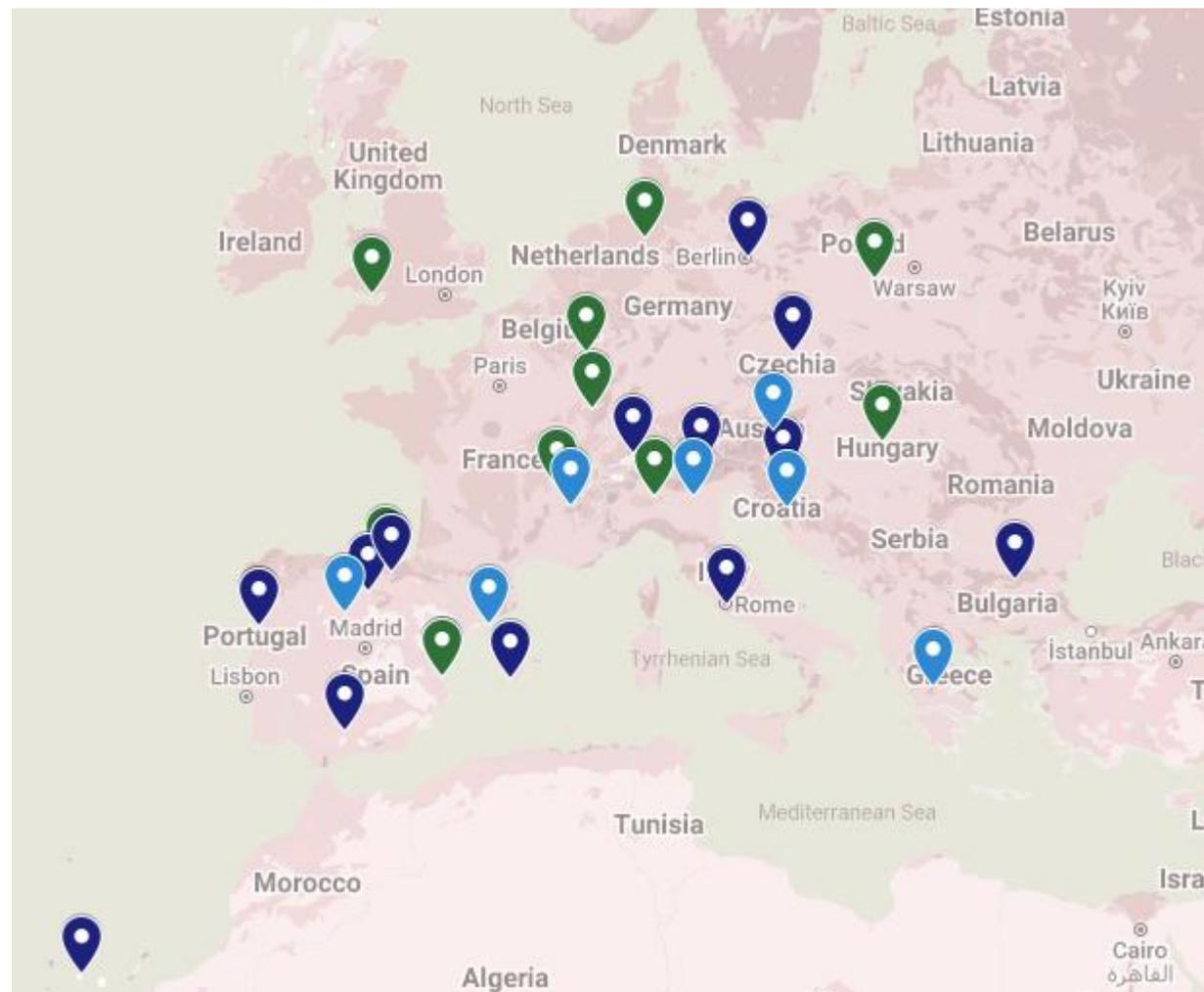
70+ / 33 Network/DIHs

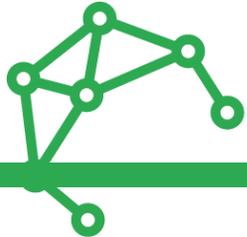


11 + 12 Application Experiments



Open Calls Closed



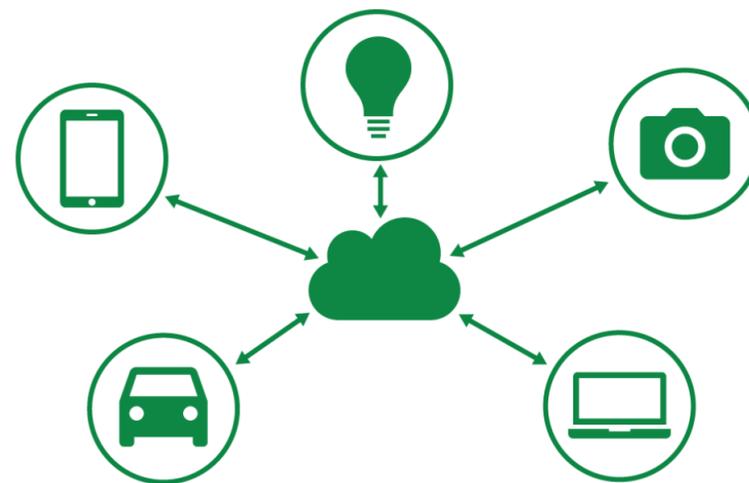


Technology End-User

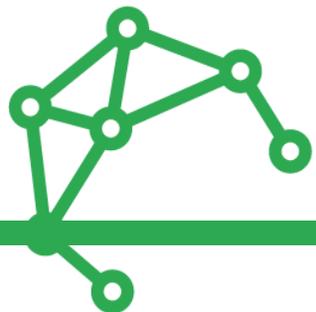


Any company (SME / LE or start-up) that uses technology to best perform its business

Technology Provider



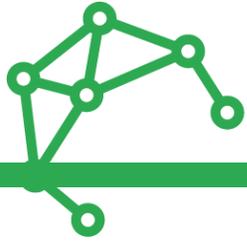
Any company (SME/LE or start-up) whose business is to develop new technologies



THE DIH4CPS PORTAL

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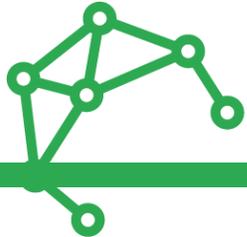




THE DIH4CPS PORTAL APPROACH

- Modelling the network and its relations in an ontology
- From individual capabilities and offers through to experiences and activities within the network
- The Key Features:
 - Open and extendable ontology
 - Integration of State-of-the-Art catalogues, like D-BEST and NACE
 - A straightforward UI to navigate the ontology for day-to-day use
 - Cross-Platform API to increase reach and interaction
 - Enabling trust through management by network organisation





THE PORTAL UI

- Navigating the DIH4CPS Ontology
- Open for everyone to search
- Operated by the network organisation
- Open for network members to publish

DIH4CPS

Search

Digital Innovation Hubs for Cyber-Physical Systems

Innovate with our network of European partners

Discover our network of partners

Search for the partner you need

Find out more about our success stories

Submit Bug Report

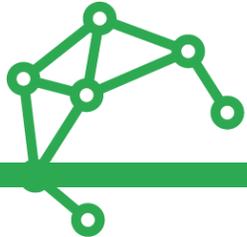
Who are we?

The initiative for **Fostering DIHs for Embedding Interoperability in Cyber-Physical Systems of European SMEs (DIH4CPS)** will help European enterprises overcome the innovation hurdles and establish Europe as a world leading innovator of the Fourth Industrial Revolution. DIH4CPS will create an embracing, interdisciplinary network of DIHs and solution providers, focussed on cyber-physical and embedded systems, interweaving knowledge and technologies from different domains, and connecting regional clusters with the pan-European expert pool of DIHs.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872548

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PUBLISHING CONTENT

BASIC

Selecting Offers from Standard Catalogues *fast & simple*

Manage Company Assets
On this view you can select the assets, which your company offers. Your selection is automatically updated in the portal.
Company: BIBA - Bremer Institut für Produktion und Logistik GmbH

Services
Please select from the following catalogue which services your organisation offers.

- Business Services**
The Business macro-class intervenes in more advanced scenarios (with higher TRL solutions), identifying, modelling and sustaining viable business models, including also fund raising services (e.g. private matchmaking or access to public funding opportunities). It can be declined in four types of services detailed in several classes of services.
- Access to Finance**
 - Connection to funding sources.**
These services want to facilitate access to different funding sources (EU, national, regional, and private) aiming at achieving an effective mix of funds.
 - Facilitation of access to an effective mix of funds (conversation, lobbying, projects)
 - Facilitation of access to different funding sources (EU, national, regional, and private)
 - Financial engineering**
These are services aimed at providing support in addressing financial issues and/or advise on innovative financial products.
- Incubation acceleration support**
- Business training and education**
- Project Development**
- Ecosystem Services**
The Ecosystem macro-class, is aimed at creating, nurturing, expanding and connecting the local SME constituency, involving in the SME digital transformation process different stakeholders as technology providers, technology users, competence centres, education and training hubs, market development experts, regional development associations. Its three main types of services are Community building, DIH Innovation Development and Ecosystem Governance.
- Technology Services**

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ADVANCED

Posting Custom Services with Links to Catalogues *more detailed & bespoke*

Custom Services
Company: BIBA - Bremer Institut für Produktion und Logistik GmbH

Service Name	Contact Point	Action
Predictive Maintenance Proof of Concept		Edit Delete
IoT Production Line – Training		Edit Delete
Technical Concept Feasibility Support		Edit Delete
Access to IoT Design and Production		Edit Delete
Concept Validation		Edit Delete
Predictive Maintenance Proof of Concept		Edit Delete
40 Jahre BIBA		Edit Delete
Test Service		Edit Delete

Custom Service

General Information
Please enter some general information for this custom service.

Service Name

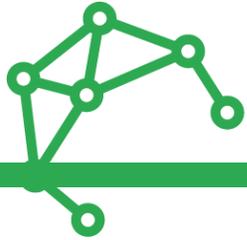
Service Description
This service allows companies to make a easy first step into predictive maintenance and data analytics. The service will start with a workshop at the SME to give a hands-on introduction to predictive maintenance and explore suitable cases at the SME for developing a predictive maintenance proof of concept. BIBA's predictive maintenance platform, which was created in the H2020 action "UPTIME", will then be used to collect data - either from existing sources or newly placed sensors - and build a predictive maintenance workflow. As part of this service BIBA offers a wide variety of common sensors (e.g. vibration, orientation, temperature), which can be easily attached to the system under consideration, should there be not readily available data. The BIBA predictive maintenance platform has already implemented major data analysis modules, which can be easily configured to data flows. No per service coding will be required. Once a suitable amount of data has been processed the proof of concept will be documented and presented to the SME with some recommendations on how to further develop the case for productive use. The proof of concept system (sensors, data pipeline and analysis flows) can be kept operational for further demonstration and analysis upon separate agreement with the SME.

Service Category

[Create Custom Service](#)

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SEARCH

- Navigating the DIH4CPS Ontology
- Open for everyone to search
- Operated by the network organisation
- Open for network members to publish

The screenshot shows the DIH4CPS search interface. The search bar contains 'predictive maintenance'. Below the search bar, there are tabs for 'Organisations', 'Services', 'Facilities', 'Domains', and 'Service Categories'. A 'Result Details' window is open, displaying the title 'Predictive Maintenance Proof of Concept'. The text below the title describes a service that allows companies to make a first step into predictive maintenance and data analytics. It mentions a workshop at the SME, data collection, and the use of various sensors. The text also states that the proof of concept system can be kept operational for further demonstration and analysis upon separate agreement with the SME.

The screenshot shows the DIH4CPS search interface. The search bar contains 'BIBA - Bremer Institut für Produktion und Logistik'. Below the search bar, there are tabs for 'Organisations', 'Services', 'Facilities', 'Domains', and 'Service Categories'. A 'Result Details' window is open, displaying the title 'BIBA - Bremer Institut für Produktion und Logistik GmbH'. The text below the title describes the institute, its focus on engineering science, and its history. It mentions that it was founded in Bremen and counts as one of the largest research facilities in the federal state of Bremen. It also mentions its divisions: 'Int Michael Freitag and ICT applications for Production', headed by Prof. Dr.-Ing. Klaus-Dieter Thoben. Based on distinct fun both on national and international level, in the areas of production and logistics for relevant industries like logistics, aeronautics, and the International Graduate School for Dynamics in Logistics. With the LogDynamics Lab, the institute operates a dem logistics.

Organisation Type: DIH Employees: 120
PIC Number: 999651155 Vat Number: DE814890109

Contact Points

Name
lorfablab
Mittelstand 4.0 Kompetenzzentrum

The screenshot shows the DIH4CPS search interface. The search bar contains 'prototyping'. Below the search bar, there are tabs for 'Organisations', 'Services', 'Facilities', 'Domains', and 'Service Categories'. A 'Result Details' window is open, displaying the title 'Design of prototypes to explore ideas and emerging technologies before going into production.'. The text below the title describes a service that allows companies to explore ideas and emerging technologies before going into production. It mentions that the service is designed to explore ideas and emerging technologies before going into production by also considering potential opportunities offered by small series production.





DIH4CPS

DIH4CPS is coordinated by



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