



I4MS ICT Innovation for Manufacturing SMEs

**EU4Digital ICT Innovation networking event
22 April 2021**

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 951848.



What is the I4MS initiative?

I4MS (ICT Innovation for Manufacturing SMEs) is the initiative promoted by the European Commission to foster the digital innovation of manufacturing **SMEs** in Europe in order to **boost their competitiveness** in the **digital era**.

THE I4MS GOAL

Contribute to the adaptation of **European SMEs** to the current digital transformation challenges

- **Funding & mentorship**
- **Training**
- **Access to physical and virtual technology platforms.**



I4MS - Coordination and Support Action Partners



FundingBox Accelerator is a non-profitable initiative promoting and launching technological & innovative businesses in Europe.



MWCapital Barcelona is a foundation driving the mobile and digital transformation of society while helping improve people's lives globally.



Tecnalia is a private, independent, non-profit applied research center of international excellence aiming to transform technology into GDP, meaning to improve people's quality of life and business opportunities



I4MS Phase 3 & 4 – Innovation Actions



TECHNOLOGIES:

- AI
- DIGITAL TWINS
- HPC
- LASER-BASED ADDITIVE MANUFACTURING
- HUMAN-ROBOT INTERACTION
- COGNITIVE AUTONOMOUS SYSTEMS
- SENSORS
- CPS
- IOT
- ROBOTICS



Identification of challenges #gaps

#penetration gap

- Underrepresented regions and sectors

#awareness gap

- Lack of awareness on the importance of digital transformation

#skills gap

- Skill mismatches

#investment gap

- Lack of support to reach the market and appropriate funding

#collaboration gap

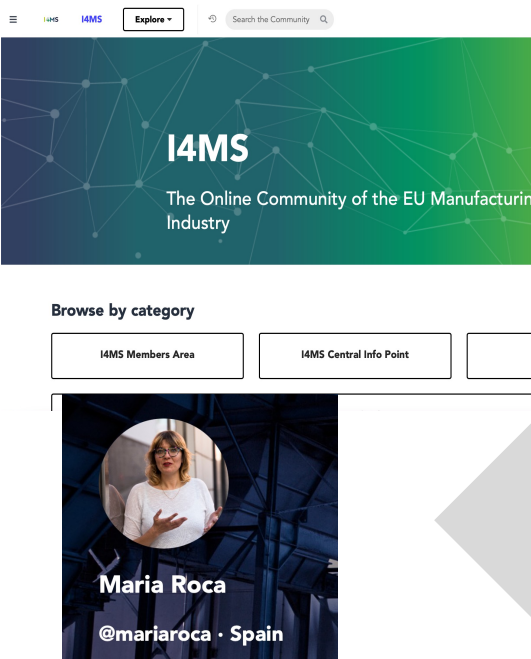
- Collaboration of I4MS ecosystem

#new gap

- COVID-19

I4MS CSA Central Information Point

I4MS



I4MS
ONLINE
COMMUNITY

I4MS
CATALOGUE
OF
TRAININGS
AND BBPP

I4MS
CONTACT
POINTS
NETWORK

I4MS
BROKERING
SYSTEM



Are you a manufacturing **SME** **wanting to** increase your technology adoption cycle faster and smarter?



The I4MS Brokering Tool is here to help you!

Start



ICT Innovation for Manufacturing SMEs in a nutshell

Opportunities for DIH



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MOBILE
WORLD CAPITAL
BARCELONA

tecnalia

I4MS available tools

	CPS/IoT MIDIH Reference Architecture and Open Source Middleware supporting the digitalization of manufacturing SMEs. www.midih.eu	
	EmGORA Digital Marketplace cloud-based engineering software for the manufacturing Industry www.cludifactoring.eu	
	AMable Service Arena - Services for additively manufactured products www.amable.eu	
	Robotics and Automation MarketPlace (RAMP – www.RAMP.eu) . RAMP is a Business-to-Business (B2B) internet marketplace for the manufacturing SMEs.	

UPCOMING DIGITAL PLATFORMS



**SMART MODELLING,
SIMULATION
AND OPTIMIZATION
FOR DIGITAL TWINS**



**COGNITIVE AUTONOMOUS
SYSTEMS & HUMAN-
ROBOT
INTERACTION**

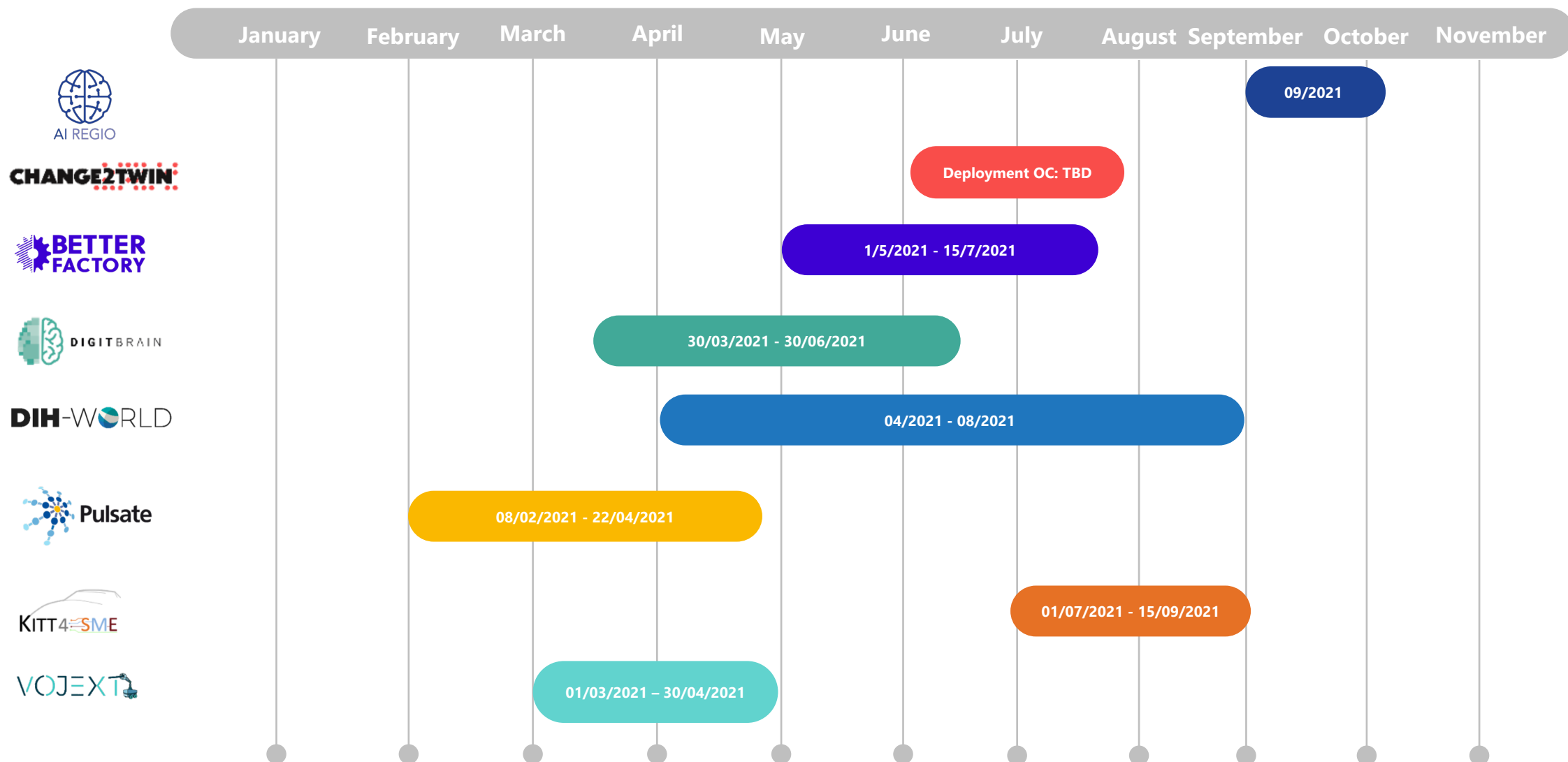


**LASER-BASED
ADDITIVE
MANUFACTURING**



**INNOVATIVE
ARTIFICIAL
INTELLIGENCE**

I4MS Open Call Calendar 2021



I4MS Open Calls



Develops innovative methods for governing and **improving the Digital Transformation processes** in DIHs for Manufacturing SMEs, provides access to Data4AI and AI4Manufacturing tools via the AI4EU AI-on-demand platform and experiments advanced AI applications in SME-driven industrial cases!



TBC



SMEs



AI-driven digital transformation



2 Open Calls



TBC September 2021



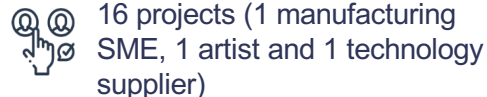
<https://www.airegio-project.eu/>



Invites Manufacturing SMEs and MidCaps to **redesign their current product portfolio** together with Artists and Technology Suppliers in a Knowledge Transfer Experiment



Up to 200k EUR



16 projects (1 manufacturing SME, 1 artist and 1 technology supplier)



Agile-Production technologies



2 Open Calls



01/05/ - 15/06/21



<https://betterfactory.eu/>



Provides guidance and funding to manufacturing SMEs and mid-caps **to acquire a digital twin**. The project will also activate, train and certify DIHs for providing this targeted support.



Up to 10K/90k EUR*



70 SMEs/MidCaps



Digital Twins, Manufacturing, IoT



4 Open Calls (1 Closed)



TBC June 2021



<https://www.change2twin.eu>



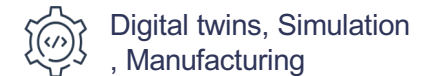
Enables Digital Twin technologies through the support of more than 20 highly innovative cross-border experiments, bringing together technology providers and manufacturing end-users.



Up to 100k EUR



14 Application Experiments (1 tech partner & 1 SME)



Digital twins, Simulation , Manufacturing



2 Open Calls



Deadline OC: 30/06/2021



<https://digitbrain.eu/>

I4MS Open Calls

DIH-WORLD

Accelerates the uptake of advanced digital technologies by European manufacturing SMEs. DIH-World is promoting the growth of DIH maturity to enhance their ability to help companies grow, compete and reach global markets



TBC



45 Experiments



All Technologies



2 Open Calls &
1 Call for Interest DIH



TBC April 2021



<https://dihworld.eu/>

KITT4SME

Delivers a modularly **customisable digital platform** that can seamlessly introduce **artificial intelligence** in their production systems. The project will ensure that the kits are widely distributed to an audience of SMEs and midcaps in Europe.



Up to 200k EUR*



SMEs/MidCaps



Artificial Intelligence



2 Open Calls (2 type of activities)



01/07/ - 15/09/21



<https://kitt4sme.eu/>

*depending on type of activity

Pulsate

European Network that aims to empower SMEs digital competencies by facilitating the **adoption of Laser-Based Advanced Additive Manufacturing (LBAAM) technologies** in production environments.



Up to 25K/150k EUR*



10 Technology Transfer Experiments & 21 Adopters Use Case



Laser-based Additive Manufacturing



4 Open Calls



Deadline TTE: 22/04/2021
AUC: TBC March 2022



<https://www.pulsate.eu/>

*funding for AUC/TTE

VOJEXT

Design, develop and validate affordable, market-oriented, agile, multipurpose and easy-to-repurpose, **autonomous, mobile and dexterous robotic systems** as the main component of a smart, agile and scalable cognitive CPS for industry.



Up to 100k EUR*



SMEs/MidCaps



Cognitive autonomous systems, CPS



2 Open Calls (1 TTE / 1 Pilot)
2 Residences



Deadline OC: 30/04/2021



<https://vojext.eu/>

*depending on the call

Tools and Technologies for Transformation: accelerate digital uptake by manufacturing companies

I4MS Open Call Application Experiment

Devold Factobotics

Region: Lithuania **Sector:** Textile

I4MS

L4MS

Smart logistics for manufacturing

**AUTOMATIC AGV
OVERHEAD TRANSPORT +
PRODUCTION CONTROL
SYSTEM**

**IMPROVED CONTROL ON
THE PRODUCTION
PROCESS OF THE 177
SEWING STATIONS**

**INCREASE PRODUCTIVITY
BY REDUCING TIME OF
MATERIALS TRANSPORT**



What services I4MS projects offer to DIH?

I4MS

Business Services

- **Access to funding**
- 50 services offered by DIHs
- Mentoring to use new techs
- Digital maturity assessments



Community matchmaking & Brokerage

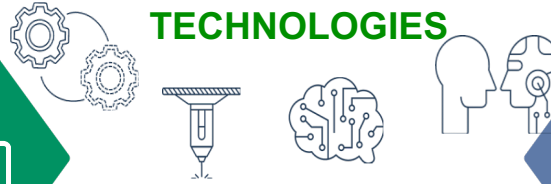
- **Access Networking and information about all services at I4MS Community:**
<https://i4ms.fundingbox.com/>
- Access to digital platforms

Access to New Markets

- **Promotion in world class events.**
- Interoperability DIH-DIH for consolidation cross-regional operations
- Market analysis LBAAM



TECHNOLOGIES



Success stories & Best practices

- **Best practices portfolio**
- **I4MS Label**
- **Disruptors Awards**



Communication services

- **Webinars**
- **I4MS channels to communicate about your DIH**

Trainings & Working Groups

- Catalogue of Trainings
- Working groups & policy recommendations
- DIHs trainings
- Methodologies towards effectiveness and sustainability
- Didactic Factories “real like” environments
- Training in LBAAM
- Regional workshops in underrepresented regions.



How to connect and participate?



Join I4MS!

<https://i4ms.eu/join-i4ms/>

maria.roca@fundingbox.com



Next events



- **I4MS Talk: Applications of Augmented Reality in service operations**

When: Tuesday 27 April @ 12:00 PM

Register → [Here](#)

- **Many more join [I4MS community!](#)**

I4MS
The Online Community of the EU Manufacturing Industry

- 18 MAR**
Boost Circular Economy in your Region!
I4MS Contact Points 34 minutes ago
Join the C-Voucher Calibration Programme and its Community of Practice!
@marinagblanes 3
- 29 APR**
Join the Better Factory's Q&A on Expression of Interest!
I4MS News 9 days ago
@ninadok 10
- 18 MAR**
Opportunities and services provided by CSAs to support DIHs and EDIHs
I4MS News 9 days ago
Join the I4MS and DIHNET joint event on helping SMEs to select the appropriate tools and services for their digital transformation needs.
@lucie 20
- 11 MAR**
Join the next i4Trust info session to find out everything about the initiative and the upcoming Open Calls!
I4MS News 12 days ago
@ninadok 21



THANK YOU!

i4ms.eu

Join I4MS!

<https://i4ms.eu/join-i4ms/>

Write me

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@I4MS_Europe



I4MS



Join the I4MS community:
<https://i4ms.fundingbox.com/>



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FundingBox



I4MS Open calls links

Opening	Deadline	Project	Technology Area	Link to the open call website
Tentative 09/2021	TBD	 AI REGIO	AI-driven digital transformation	https://www.airegio-project.eu/
28/01/2021	29/03/2021	 CHANGE2TWIN	Digital Twins, Additive Manufacturing, IoT	https://www.change2twin.eu/open-calls/
18/01/2021	18/03/2021	 BETTER FACTORY	Agile-Production technologies	https://better-factory.fundingbox.com/
31/03/2021	30/06/2021	 DIGITBRAIN	Digital twins, simulation	https://digitbrain.eu/digitbrain-open-calls/
Tentative 04/2021	07/2021	 DIH-WORLD	DIH-World aims at supporting SMEs from industries which traditionally have lagged behind on digitalization.	https://dihworld.eu/opportunities/#opencalls
08/02/2021	22/04/2021	 Pulsate	Laser-based Additive Manufacturing	https://pulsate-opencalls.fundingbox.com/
Tentative 05/2021	TBD	 KIT4=SME	Human-robot Interaction	Coming soon
01/03/2021	21/04/2021	 VOJEXT	Cognitive autonomous systems/Human robot interaction Cyber-Physical System (CPS)	https://vojext.eu/open-calls/