

Welcome to the ninth edition of Impact, the newsletter from the European Factories of the Future Research Association (EFFRA) focusing on the work of projects launched under the EU’s research and innovation programme for advanced manufacturing – ‘Factories of the Future’.

In this edition we are pleased to provide you with project presentations from our successful ‘Factories of the Future for the Automotive Sector’ workshop. We also invite you to save the date (26 September) to save the date for the next ConnectedFactories scenario-building workshop. This will take place back-to-back with the World Manufacturing Forum (27 & 28 September) in Cernobbio, Italy.

This month the MIDIH project has launched its first open call for experiments and applications in CPS/IoT. Meanwhile, CloudiFacturing has announced plans for its first open call which is set to open on 1 July.

We also bring you news from the PREVIEW, UPTIME, CAxMan, Factory2Fit and MEMAN projects.

If you have project news you wish to share you can submit it to: info@effra.eu.

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Subscribing to Impact

Impact is available to anyone with an interest in factories of the future and is registered on the EFFRA Innovation Portal.



If you have colleagues/contacts who are interested in receiving this newsletter direct them to the EFFRA Innovation Portal and they will receive our next edition direct into their mailbox.

Access to the EFFRA Innovation Portal and subscription to this newsletter is free.

[Innovation Portal](#)

Factories of the Future for the Automotive Sector Presentations Available

Presentations from the recent Factories of the Future of the Automotive Sector Workshop are now available online.

The workshop was centred on project results and was co-organised by EFFRA, ERTRAC and EGVA. The aim of the workshop was to showcase results of projects that address manufacturing in the automotive sector and to provide opportunities for networking between project presenters and the 140 participants.

[View Presentations](#)

This workshop is the latest in a series of workshops which have connected Factories of the Future project results with specific manufacturing sectors. Such connections can help to further disseminate results, connect companies with innovations and help to open the door to future research collaboration and potential business opportunities.



ConnectedFactories News: Save the Date for Scenario Building Workshop (26 September)

The latest news from the EFFRA-coordinated ConnectedFactories strategic project and from the ConnectedFactories cluster.

You are invited to save the date for the next ConnectedFactories European Scenario Building Workshop which will take place on 26 September 2018 in Cernobbio (Italy). The workshop will take place back to back with the World Manufacturing Forum (27 & 28 September).

ConnectedFactories Pathways: Draft Video Guide Released

The ConnectedFactories project has released a video draft guide to its latest work on the scenarios and pathways identified by the project.

[Watch Video](#)

These scenarios and pathways to the deployment of digital manufacturing platforms have been identified through the work of the project consortium and last year's scenario-building workshop.

[More Information](#)



Save the Date: Seizing the Opportunities of Circular Economy in the Metal-Mechanic Industry (20 June)

This MEMAN project event will take place in Brussels on 20 June and will investigate which barriers (financial, legislative, technological and non-regulatory) currently prevent companies from investing more in resource efficiency and what are the opportunities that this can bring for the competitiveness of the manufacturing industry.

The consumption of energy and raw materials in manufacturing will increase by 40% over the next 20 years. Transitioning towards a circular economy therefore becomes a must, not only for environmental reasons, but also for the growth of the sector.

Within this workshop experts will present a range of solutions that can lead to substantial resource savings in industrial processes, showing real-life examples from the metal mechanic sector. This will include innovations developed in the EU-funded research MEMAN project, which investigates the whole manufacturing value chain – rather than a single company – to make manufacturing processes more resource efficient.

[More Information](#)



MIDIH Project Launches Open Call: Data Driven Applications & Experiments in CPS/IoT

The Manufacturing Industry Digital Innovation Hubs (MIDIH) - Factories of the Future project has launched its first open call. This open call concerns data driven applications and experiments in CPS/IoT and is targets the development of data driven applications by IT SMEs as technology providers, and experiments in CPS/IoT by manufacturing SMEs.

According to the MIDIH consortium, the open call aims at complementing functionalities around the MIDIH reference architecture and performing experiments in CPS/IOT based on the components provided by the architecture. The experiments must cover one of the three main scenarios: Smart factory, smart product or smart supply chain.

The types of activities to perform that qualify for receiving financial support are data driven experiments in CPS/IoT.

[Full list of topics](#)

The overall budget for this open call is €960,000 with a maximum budget of €60,000 for each accepted proposal.

For further information and guidance, please consult the submission site.

Should you have any questions about this open call, please contact the project consortium: midih_opencall@innovalia.org.

[MIDIH](#) | [Open Call](#)



CloudiFacturing Announces Plans for 1st Open Call

The CloudiFacturing project has announced plans for its first open call.

As a Factories of the Future project participating in I4MS, CloudiFacturing will launch an open call for application experiments with use cases in the context of cloudification of production engineering for predictive digital manufacturing. Use cases should:

- Simulate manufacturing processes or manufacturing tools,
- leverage factory data to learn from it, and
- optimise manufacturing processes and/or manufacturability of goods.

The use cases need to be end-user driven (i.e. by a manufacturing company [SMEs in particular]). It is expected that proposed use cases will involve small consortia and be cross-border.

The project's first open call is expected to open on 1 July 2018 and will run until 30 September 2018.

[More Information](#) | [CloudiFacturing](#)

CloudiFacturing - cloudification of production engineering for predictive digital manufacturing – was launched in October 2017 and aims to complement of Factories of the Future cloud-focused projects including CloudFlow, CloudSME and Fortissimo by leveraging factory data with cloud-based engineering tools; paving the way toward manufacturing analytics and enriching the manufacturing engineering process with on-line data, and simulating and optimizing the production process with the vision to support it in real-time.



Five FoF Projects Join Forces to Put Workers at the Centre of Future Manufacturing

Five Factories of the Future projects (A4BLUE, Factory2Fit, HUMAN, INCLUSIVE, and MANUWORK) have joined forces to form a cluster focusing on worker-centred manufacturing. The cluster will be a forum for sharing projects' knowledge, progress, and results as they emerge.

According to the participating projects, the solutions which they are developing will bring a wide range of benefits for workers, employers, and wider industry in Europe, including:

- Increased adaptability to provide workers with personalised tasks,
- Improved quality of products and increased productivity,
- Increased worker satisfaction,
- Stronger global position of industry in Europe through higher social acceptance levels.

By combining their efforts, the projects hope to achieve greater impact and wider adoption of these new developments in advanced manufacturing systems. In the coming months, the cluster will be setting up a website to share news and updates.

[More Information](#)



Introducing the UPTIME Project: Unified Predictive Maintenance System

The UPTIME project - Unified Predictive Maintenance System - aims to design a unified predictive maintenance framework and an associated unified information system in order to enable the predictive maintenance strategy implementation in manufacturing industries. The UPTIME predictive maintenance system will extend and unify the new digital, e-maintenance services and tools and will incorporate information from heterogeneous data sources, e.g. sensors, to more accurately estimate the process performances.

UPTIME's objectives are to:

- Extend and unify the new digital, e-maintenance services and tools for UPTIME solution,
- Deploy and validate the UPTIME solution in manufacturing companies,
- Diffuse the UPTIME solution to the manufacturing community.

The project started in September 2017 and will run until August 2020.

[UPTIME](#)



CAXman Launches Additive Manufacturing Road Tour

Factories of the Future project CAXman has launched its European CAXman Additive Manufacturing Road Tour (CAM-RT). The tour will take the form of a series of workshops and aims to underpin the customer development process. Five workshops will take place during March and August in France, Germany, Italy, Norway and Spain.

[Tour Schedule](#)



Preview Publishes Wireless Networks Video

Factories of the Future project PREVIEW consortium has published a new video to showcase its wireless networks.

The PREVIEW project (predictive system to recommend injection mould-setup in wireless sensor networks) is developing cutting edge wireless technological solutions for injection moulding setup and process optimisation using recommended machine parameters to minimise manufacturing downtime.

[View Video](#) | [More about PREVIEW](#)



MEMAN Releases Casting Cluster Video

MEMAN has released its first video on its casting cluster. The video shows the savings achieved by manufacturing companies in the production of a suspension component for vehicles.

According to MEMAN, the new design of a suspension component has resulted in a 20% reduction in the use of raw materials, a reduction of almost 24% in CO2 emissions during the manufacturing phase and a further reduction of 11% in CO2 emissions during the use phase due to lighter vehicles consuming less fuel. Overall this has led to a total reduction of 35% in CO2 emissions. Furthermore, the life cycle cost of the aluminium component has been reduced by a 15%.

The MEMAN project aims to support European companies in the metal mechanical sector in their efforts to maximise their resource saving potential and increase competitiveness. The project is based on an innovative approach that addresses optimisation of whole manufacturing value chain instead of isolated single company or process optimisation, and includes energy, raw materials, and other supplies.

[Watch Video](#) | [MEMAN](#)

Contact

If you have suggestions, questions or comments concerning this newsletter, contact info@effra.eu.

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