

IoT4 INDUSTRY

IOT4INDUSTRY FINAL MOVES: BUILD UPON SUCCESSES, GRANT AWARDS, AND... CELEBRATE!

Started from the bottom now we here IoT4Industry project started in April 2020 and is now in its final stage. Its entire consortium is very proud of the results achieved by the numerous stakeholders involved!

IoT4Industry set up a series of activities, such as webinars, workshops, B2B sessions in support of EU companies. "Intense cooperation" with partners and clusters, encouraged collaboration between industrial entities and IoT providers for implementing IoT solutions and modernising their production. On a wider scale, beyond supporting the developments of new prototypes, demonstrations, and setting up new interregional collaborations, IoT4Industry enabled collaborative projects to tackle key issues such as:

- The lack of awareness about IoT solutions' impacts on manufacturing production,
- Integrating IoT assets into 'traditional' business models,
- Enabling the development of common architectures and communication protocols,
- Crush cultural barriers, change mindsets, strengthen human resources,

Almost 385 applicants (companies, RTOs, clusters, etc.) joined IoT4Industry, 82% of which were SMEs from 29 countries. 149 proposals were submitted to the Calls for Collaborative Projects, of which 128 were eligible and 70% above the threshold! Out of these riveting participations, 40 projects have been funded allocating 3.7 million Euros to European SMEs.



IoT4Industry Awards: Let's kick off the last part of IoT4Industry project with a special competition between the 40 funded Collaborative Projects!

Each participant in these projects were invited to prepare a video presenting their solutions. The three best solutions will then be selected by a committee that will award winners at the Digitalising Manufacturing Conference 2020, 5th-6th October in Coventry. The event is one of the UK's largest annual gathering of manufacturing leaders, key decision makers across all sectors, speakers from across the world to provide manufacturers with practical information and solutions on how to meet the challenges of digitalising manufacturing. This year MTC's flagship Digitalising Manufacturing Conference 2020, will also take place virtually, dramatically increasing the visibility of the IoT4Industry projects!

IOT4INDUSTRY PROJECT ONE OF THE MAIN ACTOR OF THE EUROPEAN CLUSTER ALLIANCE

The European Clusters Alliance is a bottom-up initiative that gathers 12 National Cluster Associations, representing more than 700 clusters, where 112.000 of our most innovative businesses collaborate with thousands of universities, research centres and public institutions to boost their competitiveness.

On 18th June on the European Alliance against Coronavirus Daily Webinar, where Pole SCS introduced IoT4Industry experience presented its vision of the strategic role of EU initiatives to sustain SMEs in the 4.0 transition.



With the contribution on Guillaume Roux (Pole SCS), the discussion focused on the IoT for new cross-sectoral value chains with the aim to improve digital transformation and the adoption of smart technologies within companies, especially SMEs. Pole SCS underlined how IoT4Industry project supported the collaboration between relevant innovation actors from industrial and IoT sector to modernise the production capabilities in SMEs and increase competitiveness of companies through a more efficient, smart and agile production. This project created a partnership of 7 European clusters, involving 84 SM's, 17 EU countries, During the discussion, it was argued the main challenge of today for SMEs is the digitalization, especially from a standardisation point of view: there is a lack of common architectures and communication protocols, which would allow European companies to reach a stronger competitive position in the global markets.

Lastly, it has been underlined by Guillaume Roux, the importance of IoT solutions to foster green economy, considering:

1. I4.0 technologies as a set of opportunities supporting enterprises in increasing their circular degree and to foster resources recovery (e.g. disassembly processes and other EoL techniques digitalization);
2. the role that I4.0 technologies have in enabling circular business models related to the stakeholder's involvement (e.g., customers, shorter supply chains, local supply chains, etc.);
3. IoT solutions for monitoring and optimising energy and resource efficiency during lifecycle management.



Watch the record on <https://www.youtube.com/watch?v=yJFpII-3K0c&feature=youtu.be>

CONGRATULATION TO OTHER FUNDED PROJECTS THAT PASSED THE FINAL VALIDATION WITH SUCCESS!

TRICE: The Italian [NOVASIS INNOVAZIONE](#) and the Portuguese JDEUS (part of the DENSO group) collaborated to develop an IoT smart sensing machine suited to log and store in-line process parameters of a production machine, especially an aluminium fin-forming machine in a heat exchanger assembly line.

The optimization of the process using an automatic decision engine and the deployment of vision and optical metrology systems will improve the performance of the manufacturing system, minimizing the machine faults and increasing the quality of corrugated fins. In June, the 26th of 2020 the R&D TRICE project has been fully and successfully tested and validated in an industry production plant of the JDEUS partner in Portugal and can be applied to many industrial sectors.

MYWAI4QM™: At the end of June the MYWAI 4 Quality Manager (MYWAI4QM™) project led by the Italian startup [KnowhedgeSRL](#) has been received the final validation; its aim was to design and pilot edge computing IOT appliances delivering highly secured and trusted Artificial Neural Networks (ANNs) directly at the edge of industrial production belts and workplaces. To achieve trust & security at the level needed in industrial production workflows, MYWAI4QM™ blends ASIC and FPGA based Neural Networks with access to new generation DLT (Distributed Ledger Technologies) topology specifically designed for encrypting and streaming data from IOT (i.e. IOTA) appliances, such sensors, cameras and vision systems, used for monitoring industrial settings. The MYWAI4QM™ technology has been piloted by one of the world's leading producers of ultrasound medical equipment, [ESAOTE S.p.A.](#), in its plant in Florence, Italy, where the most important component of its echography appliances, the ultrasound probe, is produced.

IoT4NR: On 23rd July 2020, Pole SCS attended a technical visit in La Seyne-sur-Mer (Toulon) for the final validation of project IoT4NR, a demonstrator project of an IoT marine maintenance and repair solution for boats and major repair tools. The visit was managed by the company INOUID (coordinator of the IoT4NR project and expert in industrial IoT solutions) and hosted by FOSELEV Marine (specialist in industrial maintenance, marine maintenance and repair, marine service operation). The project comprises 7 associated partners and POLE SCS has been able to visit a working boat and a floating dock on which LoRa sensors and IA were installed by the project on the main hydraulic and water pumps, enabling real time monitoring with a new high efficient HMI. IoT4NR solution also includes a maintenance evolutive management tool.



On 30th of June afternoon– at the “**Clusters for Next Generation EU: Dialogue between European Commissioner [Thierry Breton](#) and the European Clusters Alliance**”, Marielle Campanella of Pole SCS presented IoT4Industry results agreed with the European Commissioner Thierry Breton the **clusters play a critical role in the economic recovery** of the European single market towards a green, digital, and resilient future.

“*Clusters are absolutely essential to accelerate the transformation that we are putting in place on our European continent, regardless where business is located in the EU*”, Commissioner Breton confirmed. Cluster must be part of the recovery plans of the EU Member States, he declared to the ECA, for which the Commission proposes 750 billion EUR, 500 distributed to the Member States, and encouraged the cooperation between clusters and their respective Member States.

The members of the European Clusters Alliance expressed during their presentations their readiness to act, placing their resources at the disposal of the European Commission and requesting more responsibility and trust to implement industrial policies of the European Union. Clusters have shown their potential since the beginning of the COVID-19 crisis, managing big groups of companies from different sectors at the same time and across different countries, in close and continuous collaboration with DG GROW, to help in this time of crisis and to look for ways and solutions for the recovery. This collaboration will continue. Commissioner Breton announced the launch of *Euroclusters* under the new Joint Cluster Initiatives in 2020/2021 helping to link ecosystems as innovation agents in cross-sectorial projects.

More than 1.000 attendants from countries all over Europe followed the meeting online.

Watch the record

<https://www.youtube.com/watch?v=cWi0rhzADcE&feature=youtu.be>



Passing the baton: IoT4Industry has a new coordinator



Guillaume Roux

He is one of the architects of IoT4Industry project and he has done a great job!

GOOD LUCK FOR YOUR NEW EXPERIENCE!



Marielle Campanella

She has an engineering degree and technical experience in several projects!

WELCOME ON BOARD!

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P2



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