



CREATE the Next Generation IoT

eXperience for the Future

European Industry Partnerships for New Digital Age

12 September 2019, Brussels, Belgium

Spanish National Research Council, Rue du Trône, 62, 7th floor (Room 3)

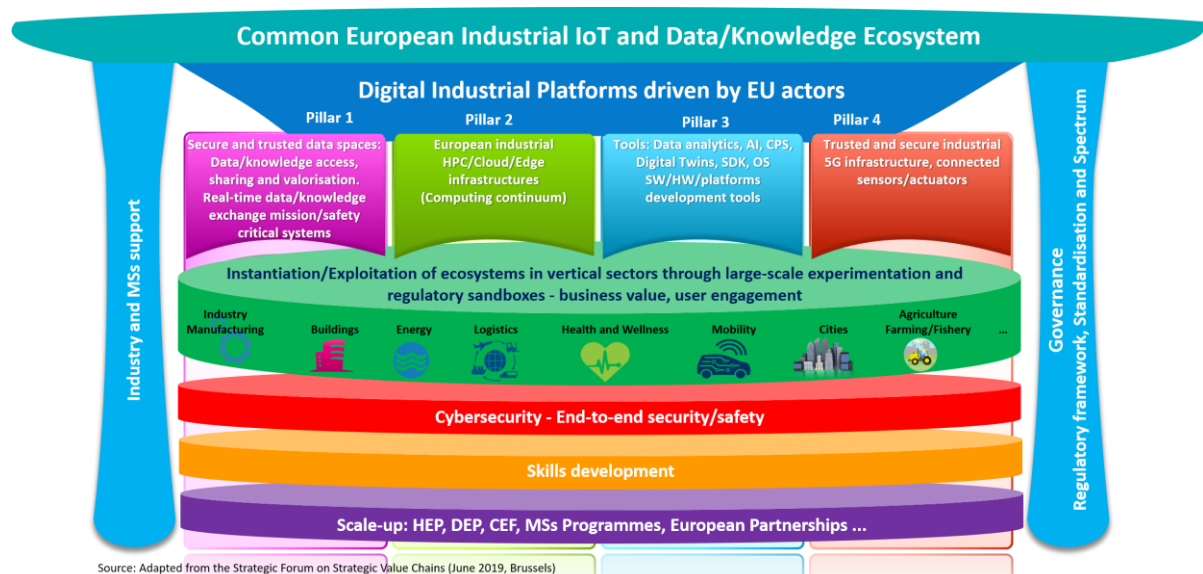
Europe faces a set of important new challenges and opportunities as the next wave of digital-based innovations emerges and the convergences of technologies such as the Internet of Things (IoT)/Industrial Internet of Things (IIoT), 5G, Artificial Intelligence (AI), robotics, Distributed Ledger Technologies (DLTs) or edge computing become a reality in different industrial sectors and across industries.

The IIoT is at the core of the digital transformation of industries. Access to, and use of, relevant high-quality data is crucial in this context and in particular for exploiting AI in industry. However, difficulties in accessing relevant data from different sources prevent the development of new services and products based on the secondary re-use of data.

Fast deployment of IIoT connectivity needs to be ensured especially for connecting value chains and integrating industrial processes. Especially IIoT would benefit from resilient, low-latency and secure 5G and beyond infrastructures, capable of connecting a wide variety of smart objects, sensors and machines (IoT).

A coordinated action at EU level is needed to avoid fragmentation of public digital services across the EU and within MSs, prevent inefficient use of resources and only partial cross-border exchange of expertise, with negative societal and economic impacts.

To this end, under the next framework programme Horizon Europe, the European Commission (EC) could consider an “Alliance” with Member States (MSs) and/or new partnerships with stakeholders in relevant areas to facilitate closer cooperation among industrial data controllers, accelerate coordinated investments (possibly in the form of an IPCEI - Important Projects of Common European Interest), and promote fast deployment of next generation mobile networks as well as data exchange models that allow third party businesses (non-data-owners) to access data sets resulting from data owners’ cooperation.



The objective of the workshop is taking account of the increasing role of IIoT as part of the future AI Industrial Strategy of the Commission. Strategic value chains are now the core element of a renewed industrial policy to sustain EU's future industrial base through firm investments in digital technologies, including data spaces and 5G mobile and IoT/IIoT service infrastructures.

The event “next European Industry Partnerships for New Digital Age” intends to initiate a coordinated approach across existing partnerships and alliances and clearly define the technological areas being addressed already by today's partnerships in view of future initiatives under the umbrella of AI or Smart Network and Services (SNS).

The aim of this workshop is to:

- Discuss the strategic objectives and role of European partnerships from an industrial perspective and current European context and analyse future concepts and perspectives of IIoT.
- Refer to and identify potential synergies with national and regional programmes, address means to bring together a broad range of innovation actors to work towards a common goal and turns research into socio-economic results.
- Discuss the links between partnership candidates, possible partnership composition and the role of in future innovation and deployment support programmes like Cohesion Funds, Digital Europe Programme (DEP), InvestEU and CEF Digital priorities.

The event is organised by the CREATE-IoT project as part of the IoT Large-Scale Pilots Programme with support from DG Connect and several European partnerships.

Speakers from industry, research and academia representing different European partnership initiatives covering areas of Digital, Industry and Space, representatives from Member States and the EC will analyse and discuss the strategic directions, align the research priorities, identify the gaps and present their expectations for future research and innovation, and the impact of converging technologies such as IoT/IIoT, 5G, AI, robotics, DLTs, edge computing on applications connected to the European IoT/IIoT, intelligent connectivity and data/knowledge ecosystem.

The themes that will be addressed covers the secure and trusted data spaces, European Industrial IIoT/edge infrastructures and the continuum to cloud and high-performance computing, intelligent connectivity and industrial 5G infrastructure for intelligent sensor/actuators and the development of HW/SW/platforms tools for IoT/IIoT, AI, digital twins applications across the industrial sectors.

The panel discussions will go along three areas of interest:

- Industrial applications addressing manufacturing industry, autonomous systems/vehicles, energy and environment in a global context. European priorities on converging technologies (5G, IoT/IIoT, AI, edge computing, DLTs, etc.)
- Partnerships to align common goals under an IIoT strategy with industry and representatives of individual partnerships to address the future industrial strategy in Horizon Europe
- Need for investment and shared governance of a scalable and resilient data and mobile infrastructure.

Participation in this workshop will be by invitation only.



Workshop Draft Program 12 September 2019

09:00-09:30	Registration – Venue: Spanish National Research Council – Brussels
Meeting Room: Rue du Trône, 62, 7th floor (Room 3), Brussels	
European Industry Partnerships for New Digital Age	
09:30-09:40	<i>Opening Remarks, Welcome and Introductions – Ovidiu Vermesan, SINTEF, Norway, Dolores Ordóñez, AnySolution, Spain, Marcos Alvarez-Diaz, Gradient, Spain, Stefano Fava, Links Foundation, Italy</i>
09:40-09:55	<i>Strategic value chains – Strategic Forum for Important Projects of Common European Interest (IPCEI) – Szabolcs Szekacs, DG Grow, EC, Belgium</i>
09:55-10:05	<i>Industrial IoT – Setting the Scene – Rolf Riemenschneider, Franck Boissiere DG CONNECT EC, Belgium</i>
Data Spaces– Presentations and Discussions Session	
Moderator: Sergio Gusmeroli, Politecnico di Milano, Italy	
10:05-10:45	<i>Ana Garcia, BDVA, Lars Nagel, IDSA, Chris Decubber, EFFRA, Luis Pérez-Freire, AIOTI</i>
Secure Trusted Data/Knowledge –Applications and Infrastructure – Presentations Session	
Moderator: Natalie Samovich, Enercoutim, Portugal	
10:45-11:15	<i>HPC/Cloud/Edge Infrastructure Sai Narasimhamurthy, ETP4HPC, Roberto Cascella, ECSO</i>
11:15-11:30	Coffee/Tea Break
European Industry Partnerships Perspective on Convergence IoT/IIoT, 5G, AI, edge computing, tools	
Moderator: Haydn Thompson, THHINK Wireless Technologies Ltd, UK	
11:30-12:00	<i>Ad ten Berg, ARTEMIS-IA, Joseph Eichinger, 5G ACIA, Fernando Rico, CDTI, Spain, Ovidiu Vermesan, AIOTI</i>
Trusted and secure IIoT and industrial 5G - Presentations Session	
Moderator: Bertrand Copigneaux, IDATE, France	
12:00-13:00	<i>Oltion Xhezo, Vodafone, Oliver Blank, ZWEI, Maxime Flament, 5G AA, Omar Elloumi, Nokia</i>
13:00-13:45	Buffet Lunch Break and Networking
Meeting Room: Rue du Trône, 62, 7th floor (Room 3), Brussels	
A renewed industrial strategy: Key elements and changing value chains - Panel	
Moderators: Arian Zwegers DG CONNECT EC, Belgium	
13:45-15:00	Panel discussions: <i>Chris Decubber, EFFRA, Ana Garcia, BDVA, Sai Narasimhamurthy, ETP4HPC, Roberto Cascella, ECSO</i>
15:00-15:15	Coffee/Tea Break
Lead Use Cases – Industrial and technological base - IoT/IIoT/5G/Edge critical digital infrastructure - Strategic autonomy - Panel	
Moderators: Rolf Riemenschneider, Franck Boissiere, DG CONNECT EC, Belgium	
15:15-16:30	Panel discussions: <i>Fernando Rico, CDTI, Spain, Natalie Samovich, Enercoutim, Oltion Xhezo, Vodafone, Omar Elloumi, Nokia, Georgios Karagiannis, Huawei</i>
16:30-17:00	<i>Wrap-up and what next. Concluding remarks Nikolaos ISARIS, Rolf Riemenschneider, DG CONNECT EC, Belgium</i>
17:00	Closing

IoT European Large-Scale Pilots Programme Projects



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ACTIVAGE - ACTIVATING INNOVATIVE IoT SMART LIVING ENVIRONMENTS FOR AGEING WELL - is building the first European interoperable and open IoT ecosystem enabling the deployment, at large scale, of a wide range of Active and Healthy Ageing IoT based solutions and services. To achieve this, ACTIVAGE is integrating thousands of devices to collect and analyse older adults' environmental and lifestyle information, identify their needs, and provide customized solutions, ensuring users' data privacy and security.



AUTOPILOT

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AUTOPILOT - AUTOMATED DRIVING PROGRESSED BY INTERNET OF THINGS – is developing an IoT connected vehicle platform and IoT architecture based on the existing and forthcoming standards, as well as open source and vendor solutions. The IoT ecosystem accommodates vehicles, road infrastructure and connected IoT objects, with particular attention to safety critical aspects of automated driving. The project develops a range of services combining autonomous driving and IoT, such as car sharing, autonomous valet parking, and better digital maps for autonomous vehicles.



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CREATE-IoT - CROSS FERTILISATION THROUGH ALIGNMENT, SYNCHRONISATION AND EXCHANGES FOR IoT - CREATE-IoT's stimulate collaboration between IoT initiatives, foster the take up of IoT in Europe and support the development and growth of IoT ecosystems based on open technologies and platforms. The work focuses on synchronisation and alignment on strategic and operational terms through frequent, multi-directional exchanges between the various activities under the IoT Focus Areas and the road-mapping with international initiatives.



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IoF2020 - INTERNET OF FOOD AND FARM 2020 - is dedicated to accelerating the uptake of IoT technologies in the European farming and food chains and ultimately strengthening their competitiveness and sustainability. How? By demonstrating, together with end-users, the use of IoT in different use-cases spread throughout Europe, and focusing on 5 areas: dairy, meat, arable crops, fruits and vegetables. IoF2020 is designed to generate maximum impact right from the outset and in the long-run, bringing closer together and integrating the supply and demand sides of IoT technologies in the agri-food sector.



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[MONICA](#) - MANAGEMENT OF NETWORKED IoT WEARABLES – VERY LARGE-SCALE DEMONSTRATION OF CULTURAL AND SOCIETAL APPLICATIONS - is a large-scale demonstration of how cities can use existing and new IoT solutions to meet sound, noise and security challenges at big open-air cultural and sports events, which attract and affect many people. Innovations include the establishment of sound zones at outdoor concerts for noise mitigation as well as security measures improving crowd information and management.

SYNCHRONICITY

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[SynchroniCity](#) - DELIVERING AN IoT-ENABLED DIGITAL SINGLE MARKET FOR EUROPE AND BEYOND - brings together partners with worldwide outreach. The project represents the first attempt to deliver a digital single market for IoT-enabled urban services in Europe and beyond. With an already emerging foundation, based on OASC Minimal Interoperability Mechanism (MIMs), SynchroniCity will establish a reference architecture model for the envisioned IoT-enabled city marketplace with identified interoperability points and interfaces and data models for different verticals.



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[U4IoT](#) - USER ENGAGEMENT FOR LARGE SCALE PILOTS IN THE INTERNET OF THINGS - combines complementary Responsible Research and Innovation – Social Sciences and Humanities (RRI-SSH) expertise encompassing social and economic sciences, communication, crowdsourcing, living labs, co-creative workshops, meetups, and personal data protection to actively engage end-users and citizens in the large-scale pilots. U4IoT encompasses the whole lifecycle of end-user engagement in LSPs. Privacy-friendly crowdsourcing and survey tools enable to monitor the end-user perception and acceptance of IoT applications.

We are looking forward to seeing you in Brussels!



To promote and foster the take-up of IoT in Europe and to enable the emergence of an economically sustainable IoT ecosystem, the IoT European Large-Scale Pilots Programme projects are seeking to involve the IoT community across the value chain, from supply side to demand side.

Welcome to the IoT European Large-Scale Pilots Programme

A vibrant research, innovation, development and deployment IoT ecosystem across Europe!