

CREATE the Next Generation IoT

eXperience for the Future

European Industry Partnerships

Lighthouses to Thrive in the New Digital Age

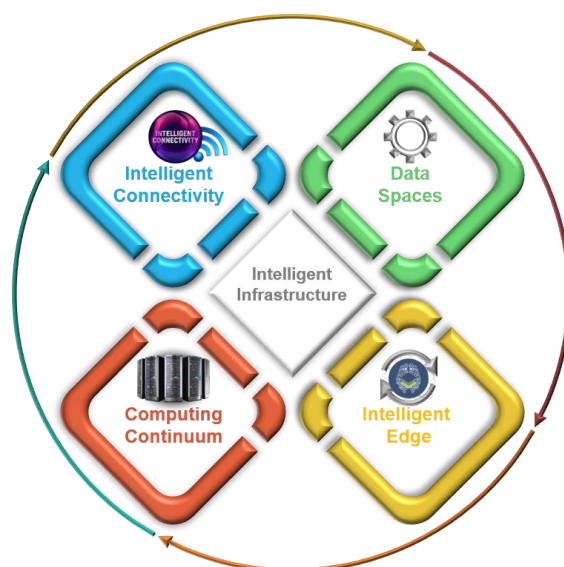
05 November 2019, DG Connect, European Commission, Brussels
Avenue de Beaulieu 25 (Room BU25 0/S1), 1160 Brussels, Belgium

Progress in Artificial Intelligence (AI), Internet of Things/Industrial Internet of Things (IoT/IIoT), 5G, robotics, automation, will bring about technology-led transformations across all European industries creating new opportunities and benefits for key industrial sectors.

The automation and digitisation of manufacturing, products and data-driven services will successfully transform European industry, driving change at a pace never seen before.

The discussion on “Enhancing Europe’s technological sovereignty has been prominently presented under the new mandate of the EC. The EC’s industrial strategy has to focus on key value chains to support Europe’s autonomy. In this context, the Strategic Value Chain (SVC) on IIoT must be built on European assets in AI, data economy, cloud, 5G, cybersecurity and strong verticals, mobilising public and private investments and EU programmes (notably Horizon Europe and Digital Europe).

The domain of Industrial IoT/Industrie 4.0 is particularly expected to get a boost by 5G assuming that pervasive real-time data and dynamic decision making can deliver a significant step up in performance for operations and businesses. With consumer and personal communication-centric commercial 5G networks are being introduced in more and more countries, the next wave of 5G expansion will allow businesses to digitalize with more mobility, flexibility, reliability, and security – taking IoT and industrial applications to never-before-seen levels. This requires new cooperation between IIoT integrators and the telecom sector; collaboration across industrial ecosystems and across European national borders; strong investments in industrial research and innovation; dedicating piloting, testing and certification along verticals; ecosystem building and adoption across all industrial sectors.



One of the central demands coming from potential implementers, as well as associations like the *5G Alliance for Connected Industries and Automation* (5G-ACIA) and the *5G Automotive Association* (5GAA), is the provision of a dedicated spectrum band for 5G and new economic models to accelerate 5G deployment in Europe.

Europe faces a set of important new challenges and opportunities as the next wave of digital-based innovations emerges based on the convergences of technologies. A new European partnership following a strategy based on an objective- and impact-driven intervention logic is developed in order to ensure a more strategic institutionalised partnership on IoT/IIoT, smart networks, edge computing, AI at the edge, cloud and beyond 5G/towards 6G and proposed to fulfil the Commissioner's new mandate, involving Member States to meet **the technology sovereignty challenge**.

The event "European Industry Partnerships - Lighthouses to thrive in the New Digital Age" is initiating a coordinated approach to clearly define the future technological and application areas to be addressed by a new partnership for Horizon Europe on IoT/IIoT, smart networks, edge computing, AI at the edge, cloud considering the initial proposal of partnership with the working title Smart Networks and Services. The new partnership has the aim to bring new value added for European economy and society and not a continuation of on a business as usual approach without being in line with the criteria set by the EC.

The workshop is addressing the following aspects:

- Industrial perspective – opinions, views and statements from industrial stakeholders on leveraging future connectivity systems to develop opportunities in related areas, notably distributed edge computing for service provision and intelligent devices across different domains (IoT/IIoT).
- Relevant industrial use cases on how IoT/IIoT would benefit from resilient, low-latency, ultra-reliable and secure 5G and beyond infrastructures, capable of connecting a wide variety of intelligent devices, sensors/actuators, and machines/robots.
- Panel on the proposed European Partnership objective and impact (SWOT) and industry support/involvement. Discussions on the role and ambition of a possible partnership with the objective to maintain European leadership in the field of intelligent connectivity infrastructures, covering the whole value chain of IoT/IIoT implementation stack whilst to develop/support applications in the vertical sectors and guarantee security of connected devices and critical infrastructures.
- Final discussions on "need to act now based on SWOT" through building a European partnership on IoT/IIoT, smart networks, edge computing, AI at the edge in the context of technology competitiveness of Europe in the global context.

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 and industry associations.

Speakers from various industry sectors, research and academia, 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 the new proposed European partnership for Horizon Europe.

The EC seeks to coordinate with Member States on its strategy on strategic value chains whilst taking into consideration key recommendations from the three High Level Groups on Artificial Intelligence, Industry 2030 and SVC on Industrial IoT into concrete implementations for the benefit of European industry, also considering the potential use of the IPCEI framework for reinforcing R&D&I activities and investments. Europe has the opportunity to combine world-class capabilities with SVC positioning to further gain distinctive competitive advantages in a deeply integrated global economy, persistent change, challenged assumptions, and disruption are the norms rather than the exception, in business and society.



European
Large-Scale Pilots
Programme

Workshops Series

In this context, the event is part of a series of workshops organised in 2019. The links to the previous events (description, program, presentations, gallery) are available on the website:

[European Industry Partnerships Collaborative Event, 17 April 2019, Steigenberger Airport Hotel Amsterdam - Amsterdam, The Netherlands](#)

[European Industry Partnerships for New Digital Age - 12 September 2019, Brussels, Belgium](#)

Registration: <https://www.eventbrite.co.uk/e/european-industry-partnerships-lighthouses-to-thrive-in-the-new-digital-age-tickets-77610586353>

Each registered person has to provide at events@create-iot.eu the requested data for entering the EC building in Avenue de Beaulieu 25. The requested information will be sent to you after registration.



Workshop Program 05 November 2019

09:00-09:30	Registration – Venue: Brussels
Meeting Room: Brussels	
European Industry Partnerships - Lighthouses to thrive in the New Digital Age	
09:30-09:35	Welcome and Introductions , Rolf Riemenschneider, DG CONNECT EC, Belgium Ovidiu Vermesan, CREATE-IoT
09:35-09:45	Enhancing Europe's technological sovereignty -- The EC's industrial strategy 2030 on key value chains to support Europe's autonomy. Szabolcs Szekacs, EC DG GROW, Belgium
09:45-09:10	Industrial IoT Driven by Changing Industrial Value Chains – Rolf Riemenschneider, DG CONNECT EC, Belgium
09:55-10:05	New European Partnership bringing together IoT/IIoT, edge computing, AI at the edge, cloud intelligent infrastructure– Setting the Scene – Bernard Barani, E1, EC DG CONNECT, Belgium
Industrial perspective – opinions and statements from industrial stakeholders – Presentations and Discussions Session	
10:05-11:15	Presentations Christoph F. Strnadl, VP Innovation & Architecture at Software AG, Austria Pierre-Yves Danet, Head of collaborative research – Europe, Orange Labs, France Marc-Elia Bégin, CEO, SixSq, Switzerland Oltion Xhezo, Vodafone Group, UK Xueli An, 5G-ACIA Omar Elloumi, oneM2M Panel Discussions Moderators: Szabolcs Szekacs, EC DG GROW, Franck Boissiere, E4, EC DG CONNECT, Belgium
11:15-11:30	Coffee/Tea Break
Relevant industrial use cases for convergence of technologies that are reference for future partnership – Presentations and Discussions Session	
11:30-12:45	Presentations Juergen Diller/Yun Chao Hu, Huawei Germany - IT and OT convergence use cases and edge computing, Alexander Willner European Edge Computing Association, Germany Linus Thrybom, ABB, Manager, Industrial Networks & Control, Sweden Niels König FhG. Institute for Production Technology IPT, Germany Panel Discussions Moderator: Matthias Kuom, Arian Zwegers, A2, EC DG CONNECT EC, Belgium
13:00-13:45	Buffet Lunch Break and Networking
Meeting Room: Brussels	
European Partnership objective and impact (SWOT) - Panel	
Moderators: Bernard Barani, E1, Rolf Riemenschneider, E4, EC DG CONNECT	
13:45-15:00	IDATE/Technopolis Presentation - Overview of the criteria for the next European Partnership for Horizon Europe Bertrand Copigneaux, IDATE, France Panel discussions: Colin Willcock, 5G - IA, Natalie Samovich, AIOTI, Nicola Ciulli, NetWorld2020, Ovidiu Vermesan, AIOTI
15:00-15:15	Coffee/Tea Break
Need to act – The Value for European, society, economy and citizens - Strategic issues related to digitisation, autonomy and sovereignty in an interconnected global environment – Panel	
Moderators: Peter Wintlev-Jensen, E4, Maria Tsakali E2, EC DG CONNECT, Belgium	
15:15-16:30	Panel discussions: Christoph F. Strnadl, Software AG, Roberto G. Cascella, ECSO, Oltion Xhezo, Vodafone, Pierre-Yves Danet, Orange, Alexander Willner, European Edge Computing Association.
16:30-17:00	Summary and plans for implementation. Bernard Barani, Rolf Riemenschneider, EC E1/E4 DG CONNECT, Belgium
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.

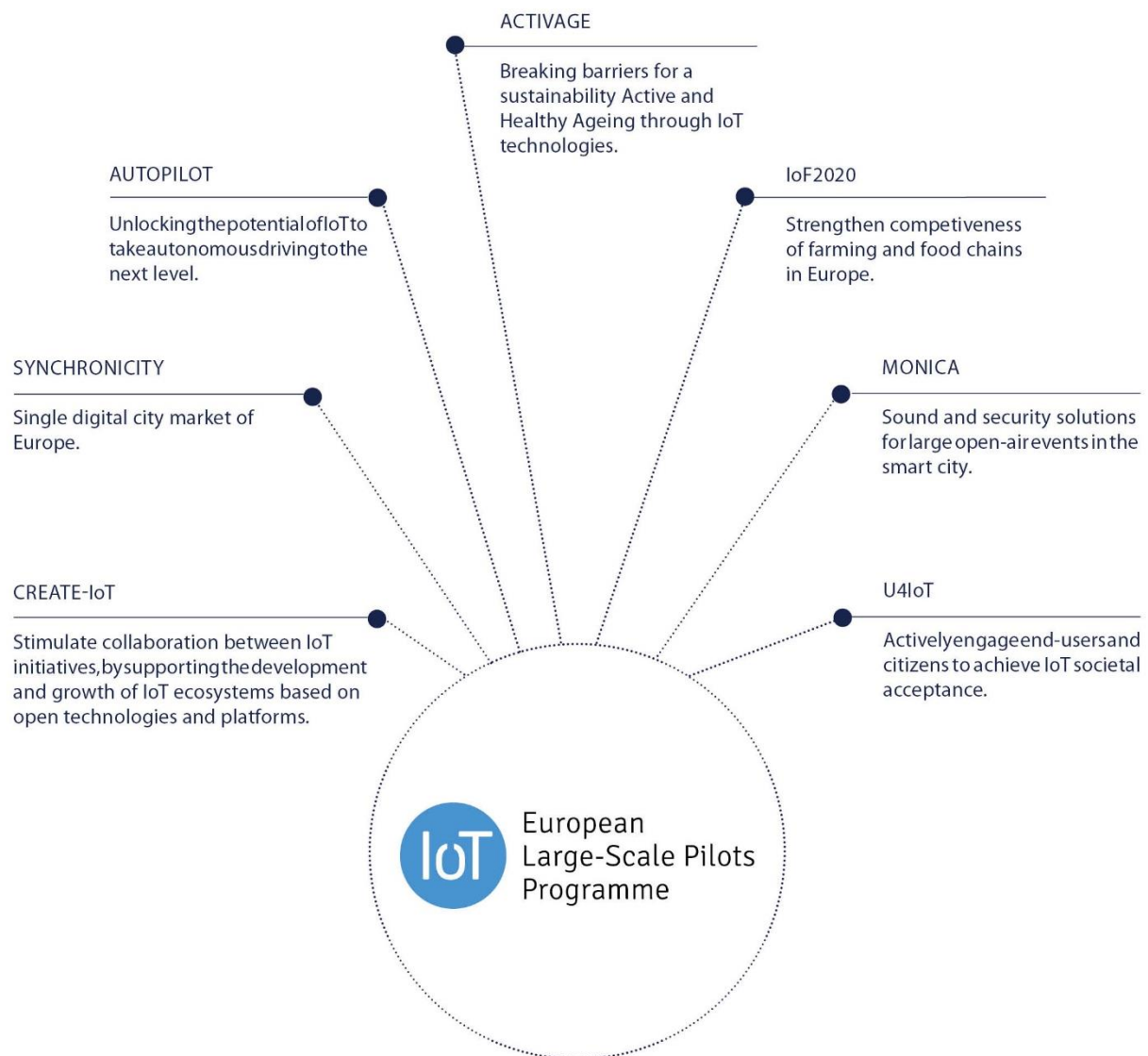


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[U4IoT](#) - USER ENGAGEMENT FOR LARGE SCALE PILOTS IN THE INTERNET OF THINGS - combines complementary Responsible Research and Innovation – Social Sciences and Humanities (RRI-SSH) expertise encompassing social and economic sciences, communication, 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!