Advancing the Digital Transformation of European Industry Webinar 2020
The role of standards in accelerating innovation - The case of IoT/IIoT

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Q&A

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Register here:
Session 1 (10-11.30): bit.ly/StandardsIoTS1
June 12, 2020

The view of the European Commission

Franck Boissière
DG CONNECT
European Commission

Register here:
Session 1 (10-11.30): bit.ly/StandardsIoTS1
The Role of Standards in accelerating innovation

Advancing the digital transformation of European industry

Rolf Riemenschneider/Franck Boissière

DG CONNECT
Missions statement for the New Commission

• Strengthening Europe’s technological leadership and strategic autonomy. Supported by DG GROW and DG CONNECT

• On enhancing Europe’s technological sovereignty. Investing in the next frontier of technologies, blockchain, high-performance computing, algorithms, data-sharing, data-usage tools, 5G standards, ...

• To lead reflections on these issues in key value chains, including in the defense and space sectors, common standards and future trends.

• ➔ A proposal for €750 Mill. European Recovery Fund ‘Next Generation EU‘
Disruptive effect of Covid-19 crisis on Global Supply Chains

Europe
- 74%
- Discontinued (1%), highly limited (16%), or limited (57%) deliveries

China
- 86%
- Discontinued (11%), highly limited (31%), or limited (44%) deliveries

USA
- 62%
- Discontinued (7%), highly limited (18%), or limited (38%) deliveries

South Korea
- 71%
- Discontinued (10%), highly limited (23%), or limited (38%) deliveries

Source: Bitkom Research 2020 | Base: All respondents for whom supplies from the selected country are relevant and which are aware of the disruptions. China (n=229), South Korea (n=87), USA (n=164), Europe (n=208, no data available for Spain and Germany)
“The coronavirus crisis has demonstrated how crucial it is for citizens and businesses to be connected and to be able to interact with each other online. We will continue to work with Member States to identify areas where more investment is needed so that all Europeans can benefit from digital services and innovations.”

“The data we publish today shows that industry is using digital solutions now more than ever. We need to ensure this is also the case for small and medium businesses and that the most advanced digital technologies are deployed throughout the economy.”

Enterprises are becoming more and more digitised, 38.5% of large companies already rely on advanced cloud services and 32.7% use big data analytics. However, SMEs do not yet use these digital technologies, as only 17% of them use cloud services and only 12% big data analytics.

The exponential growth of computing is a marvelous quantitative example of the exponentially growing returns from an evolutionary process. We can express the exponential growth of computing in terms of its accelerating pace: it took 90 years to achieve the first MIPS per 1000 dollars; now we add 1.2 MIPS per 1000 dollars every hour. The idea is that computing power increases at an accelerating rate, which is why we need a crisis to drive innovation.

**ALL YOU NEED IS CRISIS**

- **AI**
- **AR/VR**
- **100X**
- **5G/6G**
- **BLOCKCHAIN**
- **IoT**

*Courtesy: Pekka Sivonen, Digital Transformation of Finnish Industries*
Exit Strategy from COVID-19 Crisis: Boost on Usage of Digital Platform Services

- Accelerated adoption of Digital Platforms
- Products and services cutting across sectorial silos.
- Focus on agility of supply chains and localisation of markets
- IoT + AI as enabler for contactless user experience
  - IoT use cases have proliferated amid the pandemic
  - IoT and AI enabled applications can help automate processes, track and manage assets

Source: PWC study
Digital Platforms & Pilots
Work Programme 2018-20

- Horizon 2020 (300 M€ for 2018-20)
  - Next generation platform building and piloting through large scale federating projects
  - Common EU-wide strategies pooling resources

"Ensure that every business in Europe, whatever its sector of activity, wherever located and whatever its size, can take full advantage of digital innovations and competences"

**Member States & regions:**
build-up/strengthening of national and regional structures of digital innovation hubs

- particular attention to SMEs
- Ensure companies can **access** advanced technologies and enhance their **digital competences**
- €100 million per year (EU) of support to the hubs and 10 times more from the Member States and regions

**Commission:**
- Set up a pan-European network of Digital Innovation Hubs
- Support activities such as cross-border experiments, catalogue and assistance in the creation of hubs
BOOST4.0: Towards a European Industrial Data Space

Pillars

- Global Standards
- Secure Digital Infrastructures
- Trusted Big Data Middleware
- Digital Manufacturing Platforms
- Certification
Challenges to the IoT ecosystem and to standardisation

Choreography for the Session

Presentations

New challenges in light of Digital Data Strategy
Experience of using an architecture model in the open calls …
Disruption in the industry value chains
Evolving architecture models

- Response of SMEs/start-ups to open calls
- Use of semantic architecture models and standards
- Innovation hubs to support local ecosystems
- Need for co-design supportive architectures

Panel Discussion

- Remedial actions on pilots and platforms
- Proposed Actions directed to support recovery
- Accelerated up-take of digital during recovery
- Changes in standardisation landscape
- Need of Public Intervention in Key Areas
Thank you
June 12, 2020

10.15. New challenges for eHealth and Ageing

Well

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Register here:

Session 1 (10-11.30): bit.ly/StandardsIoTS1

Sergio Guillén
MySphera
ACTIVAGE

The role of standards in accelerating innovation - The case of IoT/IIoT
Webinar
The role of standards in accelerating innovation
The case of IoT/IIoT

Session 1
New challenges for eHealth and Ageing Well

Sergio Guillen
MYSPHERA
(sguillen@mysphera.com)
20th June 2020
ACTIVAGE & GATEKEEPER

▪ ISP project on IoT for Smart living Environments for ageing well
▪ Main IoT technology innovation: AIOTES, a framework for semantic interoperability across IoT platforms for Active Ageing
▪ Target market: Senior people population (100M) and Care Service Providers, IoT industry/Medtech/SME
▪ 8.000 users

▪ LSP project on AI and Big Data for early detection of health risks and intervention for prevention and care on ageing populations
▪ Main IoT technology innovation: transition towards W3C - WoT architectural approach - Trust authority - Multisided Marketplace
▪ Target market: Senior people population (100M), health care system, IoT industry/Medtech/SME
▪ Planned 50.000 users
The role of standards in accelerating innovation - The case of IoT/IIoT
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement Nº 732679
The COVID-19 pandemic is impacting the global population in drastic ways. Older people are facing the most threats and challenges at this time.

- Over 95% of these deaths occurred in those older than 60 years.
- More than 50% of all fatalities involved people aged 80 years or older.
- Reports show that 8 out of 10 deaths are occurring in individuals with at least one comorbidity.
- Higher % of infections and deaths in individuals living in nursing homes.

During times of isolation and quarantine, older people need safe access to nutritious food, basic supplies, money, medicine to support their physical health, and social care.

- It’s very important maintaining a healthy lifestyle while in self-quarantine or in isolation. Older people are often dependent on the support from carers in maintaining daily routines, staying active, and eating nutritious, balanced meals.
- Mental health during anxious times is also a key consideration. Finding ways to stay socially connected is even more important for this age group as many do not have easy access to digital platforms.
- Home care might save lives.
- Early detection and symptoms progress surveillance.

OUR CUSTOMERS

PROJECTS ARE ADDRESSING

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement Nº 732679.
IMPACT OF COVID-19
NEW CHALLENGES

INTEROPERABILITY
- At the edge, lack of interoperability

DATA SPACES
- Align with EU Data Space Framework in the health care sector

GDPR / MDR
- Implementation across IoT levels

HOME DIGITISING
- Connectivity
- SLE 4.0 - Embedded AI
- Training

RURAL AREAS
- Connectivity
- Services

MANY MORE IN THE HEALTH CARE DOMAIN

By Design
Refocus
Refocus
By Design / Open Calls
Future
Webinar
The role of standards in accelerating innovation
The case of IoT/IoT

Thank you for your attention

Sergio Guillen
MYSPHERA
(sguillen@mysphera.com)
20th June 2020
June 12, 2020
10.23 The impact on Agriculture and food supply

George Beers
Wageningen University
IoF2020

Register here:
Session 1 (10-11.30): bit.ly/StandardsIoTS1
COVID-19 TASK FORCE REPORT

INNOVATIVE SOLUTIONS. RESILIENT SUPPLY CHAIN. FACTUAL NEWS.
PERFORMED ACTIONS

Identify & support use-case solutions
- Sent survey to identify use-case solutions
- Received 29 responses form 24 use-cases
- Task Force selected 13 to contact and assess

Communicate real situation + successes
- Created Basecamp forum to collect news
- Prepared communication plan with visuals, hashtags, channels
- Selected 2 news already to be published soon

IoF2020 solution that can help manage COVID-19 impacts on the food supply chain or provide data
Communication Objectives

• Providing insights about the impact of COVID-19 on the food & farm supply chain
• Sharing the story of one of our partners. In this way best practices and inspirational examples of how to deal with COVID-19 measures are shared.

Challenges

• Limited information on available stock and projected stock
• Food waste due to long waiting time at borders
• Food safety issues due to expired shelf-life for fresh goods
• Need for tracking food supply on the road
• Missing manual labour for harvesting, seeding etc.
• Missing labour for quality controls and food safety checks
• Missing skills of workers and volunteers to help on farms
• Missing skills of farmers to quickly use digital tools
• Other

Information sources

The information comes from contributions / interviews from IoF2020 use cases and ecosystem chairs

Our target audience is

• EU Commission (give overview of current situation)
• Farmers (interested to learn from solutions)
• Service Providers
## COVID-19 TASK FORCE

### POTENTIAL SOLUTIONS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5</td>
<td><strong>Feed supply chain management</strong>&lt;br&gt;Open source algorithm for optimal pick-up/delivery routes for health care centers to collect protective clothing</td>
<td><strong>SOLUTION AVAILABLE</strong>&lt;br&gt;Spain</td>
</tr>
<tr>
<td>2.1</td>
<td><strong>Grazing Cow Monitor</strong>&lt;br&gt;Offer GPS trackers measuring temperature + humidity to control supply chains</td>
<td><strong>SOLUTION AVAILABLE</strong>&lt;br&gt;Netherlands</td>
</tr>
<tr>
<td>1.7</td>
<td><strong>Traceability for food and feed logistics</strong>&lt;br&gt;No paper signing needed + logistics manager can work from home =&gt; Reduced contact</td>
<td><strong>SHORT-TERM AVAILABILITY</strong>&lt;br&gt;Belgium, France, Netherlands, Poland</td>
</tr>
<tr>
<td>3.3</td>
<td><strong>Automated olive chain</strong>&lt;br&gt;Track workers changing between farms to quick relocate if COVID-19 case detected, connect to virus tests</td>
<td><strong>SHORT-TERM AVAILABILITY</strong>&lt;br&gt;Spain, Greece</td>
</tr>
<tr>
<td>3.5</td>
<td><strong>Smart orchard spray application</strong>&lt;br&gt;Use spraying equipment for disinfection of areas if needed</td>
<td><strong>SOLUTION AVAILABLE</strong>&lt;br&gt;Spain, Hungary, Poland, Portugal</td>
</tr>
<tr>
<td>2.4</td>
<td><strong>Remote milk quality</strong>&lt;br&gt;Use number samples as indicators of milk supply and demand situation</td>
<td><strong>SOLUTION AVAILABLE</strong>&lt;br&gt;Netherlands</td>
</tr>
<tr>
<td>3.4</td>
<td><strong>Intelligent fruit logistics</strong>&lt;br&gt;Data on supply chain behaviour might be available to authorities to forecast supply + local sales possible</td>
<td><strong>SHORT-TERM AVAILABILITY</strong>&lt;br&gt;Germany, Netherlands</td>
</tr>
<tr>
<td>3.6</td>
<td><strong>Beverage integrity tracking</strong>&lt;br&gt;Track transport conditions and change shelf-life dynamically + reduced need for checking personnel</td>
<td><strong>SHORT-TERM AVAILABILITY</strong>&lt;br&gt;Italy, Portugal, Romania</td>
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</tr>
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</table>

**Note:** The status of each solution is updated as of the date of publication. Solutions marked as **SOLUTION AVAILABLE** are ready for implementation, while those marked as **NO NEWS PLANNED** are not currently under consideration. Solutions marked as **SOLUTION IN PREPARATION** are in the development phase.
### COVID-19 TASK FORCE

## POTENTIAL SOLUTIONS

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<th>Description</th>
<th>Mid-Term Availability</th>
<th>Geographical Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>Potato processing data exchange</td>
<td>NO NEWS PLANNED</td>
<td>Netherlands, Belgium, Poland</td>
</tr>
<tr>
<td></td>
<td>Yield prediction for potatoes and forecast of demand to manage proper supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and predict issues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>Happy Cow</td>
<td>NO NEWS PLANNED</td>
<td>Netherlands</td>
</tr>
<tr>
<td></td>
<td>Limited physical contact through data sharing with vets and advisors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.6</td>
<td>Interoperable pig tracking</td>
<td>NO NEWS PLANNED</td>
<td>Sweden, Spain, Switzerland</td>
</tr>
<tr>
<td></td>
<td>Hopu maybe interesting partner to develop quick solutions =&gt; not yet checked</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.4</td>
<td>Decision-making optimisation in beef supply chain</td>
<td>NO NEWS PLANNED</td>
<td>Bulgaria, Croatia, Ireland, Portugal</td>
</tr>
<tr>
<td></td>
<td>Support farmers face declining demand from restaurants + solution can help to</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>deliver to new customers directly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Fresh Table Grapes Chain</td>
<td>NO NEWS PLANNED</td>
<td>Italy, Greece, Belgium</td>
</tr>
<tr>
<td></td>
<td>Blow solution to track shelf-life of fresh produces =&gt; not yet checked</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PROPOSED Use Case extensions for Covid-19

**Workforces:**
1. Health registration and control of workers
2. Data Sharing on available workforces

**Logistics:**
3. Changing patterns in movement of boxes

Current status: ideas & first drafts for proposals
Open Calls on Covid-19

2 Open calls, deadline June 3:
- DIH – Hackathons (31 proposals)
- SMEs – Solutions for Covid-19 challenges (78 proposals)

Status: Selection procedure started
TOPICS TO DISCUSS

In IoF2020 and SmartAgriHubs:

- Use of standards not an explicit issue related to Covid-19 actions
- Replicability to other sectors is (softly) included
- Proposals could be ‘manipulated’ before contracting
- Open for suggestions on pushing more standards
June 12, 2020

10.31. ATLAS Reference Architecture for Data Exchange in Agriculture

Stefan Rilling
Fraunhofer IAIS
ATLAS project coordinator

The role of standards in accelerating innovation-
The case of IoT/IoT

Register here:
Session 1 (10-11.30): bit.ly/StandardsIoTS1
ATLAS Reference Architecture for Data Exchange in Agriculture

Stefan Rilling
Fraunhofer IAIS
Interoperability in digital Agriculture

- Very heterogeneous landscape of machines, sensors and data platforms
- Exchange of data between all entities is a key-capability
- Interoperability between
  - Agricultural machines, sensors and data services
ATLAS Interoperability Architecture

- **Trusted and autonomous participants**
  - Data sovereignty and full control over the data

- **Minimum of centralized components**
  - No data silos, no central data hubs

- **Data Exchange through dedicated connectors (Services)**
  - Simplified connection of supply and demand side
  - More data for optimized distribution of agricultural goods
High-level reference architecture Designed along concrete use-cases
- Collaborative development process between industry partners, software developers, agricultural service providers

Two basic concepts complementing each other:
- Data-platform based data exchange and processing
- On-board / on-site computing and processing capabilities
ATLAS Network Participants

- **Participants are defined through**
  - Own software and proprietary services
  - ATLAS Data Services
  - Identity Provider (IDP) service, consent management system, data storage capabilities

- **Service registry as central component serving as a trusted directory**
Data Services for Data Exchange between Participants

- **Data Service Instances as the central participant component**
  - Data- and transport-technology agnostic
  - Work towards standards for communication between ag equipment and software solutions

- **Technical specifications from mature output from several WPs as foundation for standards**

- **Rules from the EU regulatory framework**
  - Machinery Directive, RED, GDPR
Thank you!

WP3 - ATLAS Reference Architecture

Stefan Rilling
Fraunhofer IAIS

stefan.rilling@iais.fraunhofer.de
10.39. Disruption in the industry value chains

Sergio Gusmeroli
Politecnico di Milano
OpenDEI

Register here:
Session 1 (10-11.30): bit.ly/StandardsIoTS1
COVID-19 Impact on DEI: Disruption in the Industry Value Chains

Milano, June 12th 2020 | Sergio Gusmeroli (Coordination Team)
“The DEI strategy has to continue to ensure reinforcing the EU's competitiveness in digital technologies so that any industry in Europe, big or small, wherever situated and in any sector can fully benefit from digital innovations to upgrade its products, improve its processes and adapt its business models to the digital change”

Mariya Gabriel, former Commissioner for Digital Economy and Society

OPEN DEI is a H2020 Coordination and Support Action
DT-ICT-13-2019 - Deadline Nov 2018

Start Date: June 2019
Duration: 36 Months
Consortium: 9 Beneficiaries
Coordinator: IDC (Giorgio Micheletti)
OPEN DEI: The CSA for cross-domain Platforms & Pilots

Platforms
- Interoperability
- Frameworks
- Reference Architectures

Dissemination Communication
- Regional DIHs
- Entrepreneurs
- SMEs

Large Scale Piloting
- Labs and Testbeds

Development of Ecosystems
- Future worldwide Standards

Future worldwide Standards

Platforms
- Interoperability
- Frameworks
- Reference Architectures

Dissemination Communication
- Regional DIHs
- Entrepreneurs
- SMEs

Large Scale Piloting
- Labs and Testbeds

Development of Ecosystems
- Future worldwide Standards
EU Coronavirus Response

information session
20 May 2020 – 14h00-16h30

This information session will be recorded and available for viewing after the event. The presentations will also be available.

Questions by email only during corresponding presentation RTD-HEALTH-INFODAY@ec.europa.eu

Disclaimer: The information presented in the slides is indicative; applicants must refer to the official call documents available on the EC’s Funding and Tenders website.
Topic 1: Repurposing of Manufacturing

Repurposing of manufacturing for vital medical supplies and equipment

Carmine Marzano, DG R&I, unit F.3
Topic 1: Repurposing of Manufacturing, scope impact

Scope

- re-orientation and repurposing of production capacities to meet urgent needs
- repurposing, adaptation and ramp-up of production lines to quickly adjust to new and urgent production needs, notably medical equipment, diagnostic technologies already deployed based on advanced materials and/or biotechnologies, as well as service systems and automated systems of disinfection,
- Demonstrate flexibility models for the supply chain for the repurposing of production lines and proper risk management in case of disruption of supply chains,
- Automation technologies that are less dependent on work force present in factories, certification/ calibration/ accreditation of production lines that have been repurposed or restarted after a shutdown,
- Qualification of operators/technicians for new/repurposed production lines.

Expected Impact

- To foster industry’s adaptation capacity and resilience in strategic sectors (e.g. manufacturing of medical equipment, PPE, etc.).
- Demonstrate a flexible 48-hour industrial response capability for requalification or release of repurposed production lines.
- To support industry and interested parties, in particular SMEs, by providing services for design, assessment, testing and regulatory issues.
- Deliver results within 3-18 months to end-users at scale.
- Solutions should foresee their application to other industrial sectors that might be explored in future calls.
Standards: RAMI AAS as basis for Production Digital Twins

- Repurposing Production Capacity
- Virtual Commissioning and Ramp-up of Production Lines
- Automation and Social Distancing

ISO 13584-42: 2010
Industrial automation systems and integration — Parts library — Part 42: Description methodology: Methodology for structuring parts families
Standards: IDSA Data Sovereignty for agile (AM) Value Chains

- Flexibility Models for the Supply Chain
- Qualification of Operators
- Additive Manufacturing

Digital Twin
Distributed, access and usage controlled dataset with comprehensive insights into design and production aspects of parts. Will be further enriched with data from the lifecycle.

Alignment of planning and execution
By providing access to planning data of all participants in the value chain and in the supply chain, the planning processes and the execution process become better aligned. This leads to more flexibility, robustness and transparency.
Standards: IDSA Data Sovereignty for agile Suppliers’ Chain

- Flexibility Models for the Supply Chain
- Qualification of Operators
- Spare Parts Logistics and Operations
Standards: IDSA Data Sovereignty for Manufacturing aaS in DIH

- Flexibility Models for the Supply Chain
- Qualification of Operators
- High Tech SMEs in Regional DIHs
Contact

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Research Coordinator - POLIMI
OPEN DEI Technical Coordinator

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LinkedIn
OPEN DEI
June 12, 2020

10.47. Addressing the need for co-design supportive architectures

Emmanuel Darmois
CommLedge
ETSI

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The role of standards in accelerating innovation
The case of IoT/IIoT
Advancing the Digital Transformation of European Industry
Webinar 2020

Addressing the need for co-design supportive architectures

Presented by: Emmanuel Darmois 12.06.2020
Impacts and Challenges

Perceived Impacts

✔ Major boost to the place of digitalized processes
  ✔ Supply chains (e.g., industry, agriculture), eHealth, e-payment and not just video-conferencing!
✔ Key role of citizens involvement in the resilience of society and key systems
✔ Perceived areas for strong improvement of access to digitalized systems
  ✔ Better support to SMEs (e.g., easy access, simplification), education, cities services, ...

Challenges

✔ Boosted digitalization of (IoT-based) systems and services
  ✔ Streamlined, seamlessly interoperable (from physical to process levels), secure, privacy-supportive, ...
✔ Better involvement of non traditional actors
  ✔ SMEs, citizens, small cities, rural communities, ...
✔ More efficient and simple ways to communicate between all involved stakeholders
✔ More coordinated involvement of the standardisation community
Citizens involvement
the example of ETSI STF 561

The problem

✔ How many smart city/community technology initiatives actually mention citizens and their needs like accessibility, security, privacy, services that function correctly and listen to them?

✔ Projects, research and industry factor in standards – but how many standards factor in the citizen?

The objectives

✔ Overview of citizen needs in smart communities
✔ Some basic principles as to how address them
✔ Recommendations to standardisation

An open process with stakeholder consultation

https://standards4citizens.etsi.org/

The need for co-design with citizens

✔ New approach needed to co-design with citizens the changes to city services and participate in smart city changes

Recommendation #12

✔ Standardize the basic elements of citizen-oriented service design, to provide clear and easy-to-use electronic interfaces,

✔ with background supporting information easily available,

✔ ensure human interface possibilities are always there (in whatever form) as back-up and avoid digital divide issues,

✔ by providing special interfaces designed for the less able, and support provided for these persons
A co-design supportive Reference Architecture model

The LSP 3D Architecture Model (developed in the LSP Activity Group 02) extends some of the current IoT reference architectures and is aiming at:

- Ensuring a common view of the different layers of the IoT systems from Physical up to Business;
- Providing additional viewpoints to the different stakeholders (not just to the developers) regarding some additional cross systems functions such as security, privacy or safety and the shared analysis of some properties (e.g., integrability) between different stakeholders.
3 complementary views of an IoT system

3 main views
- Functional
- Specialized expertise
- All stakeholders

Different supported roles
- Project owners
- End-users, citizens
- Designers, developers
- Domain experts
- ...

The “Properties” view refers to features and characteristics of the IoT systems associated with the administration and management aspects of the IoT infrastructure and the system itself.
- It includes intelligence, availability, dependability, manageability, integrity, scalability, composability and Interoperability.
- The main usage of this layer is for identification of the properties characterising IoT systems or applications.
The need to think differently

From a usual approach
- Designers/developers-centric
  - Key role: functional view
- Limited engagement of specialized experts
- Reduced involvement of “other” stakeholders

To a co-design supportive one
- Early involvement of “other” stakeholders in the definition of the expected properties
  - Key role: properties view
- Co-engagement of designers/developers and specialized experts
Thank you for your attention!

Questions:

Contact Details: Emmanuel Darmois, CommLedge
emmanuel.darmois@commledge.com
+33 6 32 51 53 93
Advancing the Digital Transformation of European Industry Webinar 2020
The role of standards in accelerating innovation-The case of IoT/IIoT

Q&A

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