Internet of Things
Striving for new Partnerships

IoT Large-Scale Pilots

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IoT Adoption is maturing

**EUROPEAN IOT SPENDING BY INDUSTRY**
(2018 Size and 2018-2022 CAGR)

**IOT ADOPTION ACROSS EUROPEAN VERTICALS**
(% of companies with more than 10 employees adopting at least one IoT solution in 2018)

Source: IDC Worldwide Semiannual Internet of Things Spending Guide 2019
Focus Area Digitisation

Digitising EU Industry

- Leadership in next generation open and interoperable digital platforms
- That will drive the creation of ecosystems and projects for cross-sector industrial platforms adapted to IoT
- Support experimentation environments and reference implementations for platforms
• Focus Area on Digitisation & Transformation

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

See
Industrial IOT Platforms Strategy

• "The value of a platform comes through the size of the ecosystem to support it" 

• What **Strategy for European actors for Industrial IoT?**
Objective: ensure that *Europe drives the digital transformation* of society and economy, bringing *benefits to all citizens and businesses*

More specifically to:

- Reinforce the EU’s *digital capacities*
  - **Secure & Trusted Industrial Data Space(s)**
    - (computing, data, cybersecurity, AI,..)
  - Prepare for and lead the *next generation technologies*
    - (Cloud, Edge, CyberPhysical, AI, Crypto)

- Build a *world-leading connectivity infrastructure*
  - **5G industrial and secure network infrastructure**
    - (low latency, dedicated spectrum slicing, NFV)
Industrial IoT: Shaping Europe’s Position in Global Value Chains

Common European Industrial IoT and Data Ecosystem

Digital Industrial Platforms driven by EU actors
- Secure & Trusted Data Spaces: Data access, sharing, valorisation
- Industrial Cloud / Edge / Data Infrastructure & Marketplaces
- Tools: Data Analytics, MW-OS, security, CPS, AI & Cloud-edge Continuum
- 5G industrial trusted and secure infrastructure, connected sensors

Governance

Industry and MSs Support
- Skills development
- Scale-up: DEP, HE, MSs Programmes, ...

Instantiation/exploitation of the ecosystem in verticals through large-scale experimentation and regulatory sandboxes – business value, user engagement

Manufacturing, Construction, Energy, Agriculture, Logistics, Health, Mobility, ...
New Partnerships under MFF

- ??? Questions for the Panel ???

  ? Converging Technologies AI, Cloud, Big data, IoT
  
  ? Need of Digital Data Spaces in Key Sectors
  
  ? Global Competition – Leadership of EU Actors?
  
  ? Reflect on Changing Strategic Value chains...
  
  ? Impact of large industrial testbed initiatives / lighthouse projects
Background & Useful links:

- **Digitising European Industry Strategy (DEI):**

- **Supporting and Building Platforms under DEI**

- **AIOTI Blog:** *Standardising the Internet of Things:* ETSI & AIOTI

- **BDVA Papers**
  - Towards a European Data Sharing Space April 2019
  - Big Data Challenges in Smart Manufacturing

- **AIOTI White Paper on IoT Data Market Places – Drivers and Architectures**
  - Authors: O. Elloumit, T. de Block, N. Samovich - See alliance AIOTI.eu

- **AIOTI Press:** *Joint 5G IA – AIOTI Vision* on Future Networks, Services & Applications

- **European Commission’s** *Strategy on Key Strategic Value Chains,* Apr. 2019
  - Conclusions on a EU Industrial Policy Strategy, A vision for 2030