European Commission

"IIoT for Industry Innovation and Infrastructure"

IoT Stragety in Horizon 2020

**Geneva
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DG CONNECT/E4
European Commission**

European
Commission

Digitising EU Industry

➢ *Leadership in next generation open and interoperable digital platforms*

➢ To foster competitiveness hubs that will drive the creation of ecosystems and projects for cross-sector industrial platforms adapted to IoT
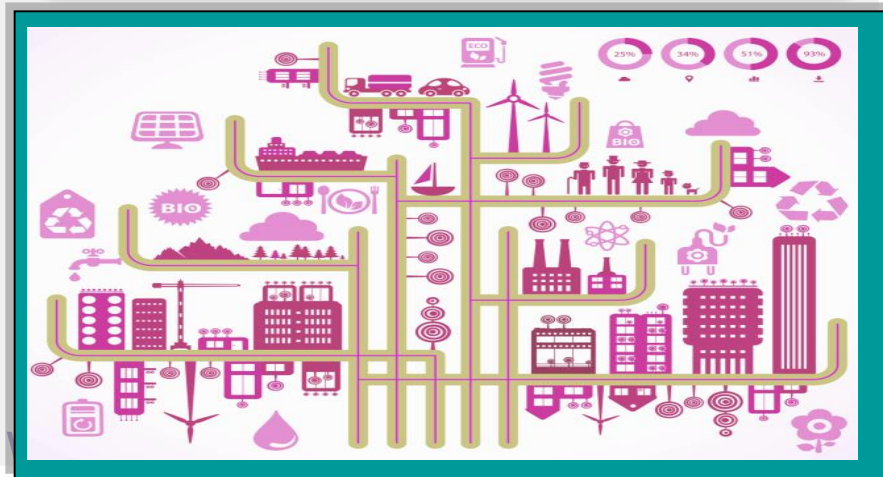
➢ Support experimentation environments and reference implementations for platforms

European Commission

IoT

AI

Cloud

Smart
Environments

**Business
Opportunities**
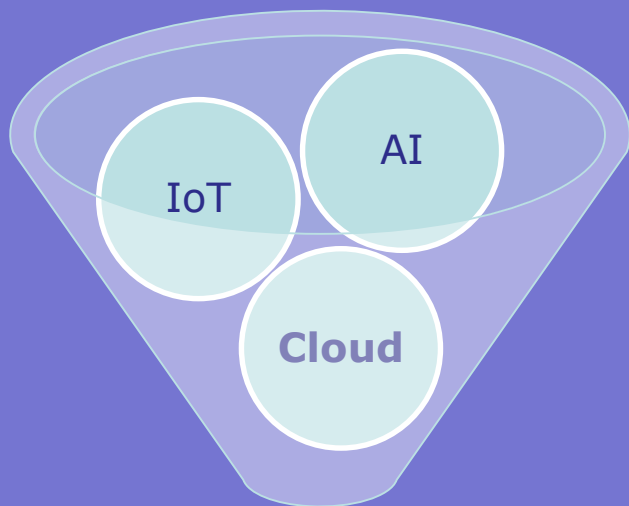
Identified Smart Environments

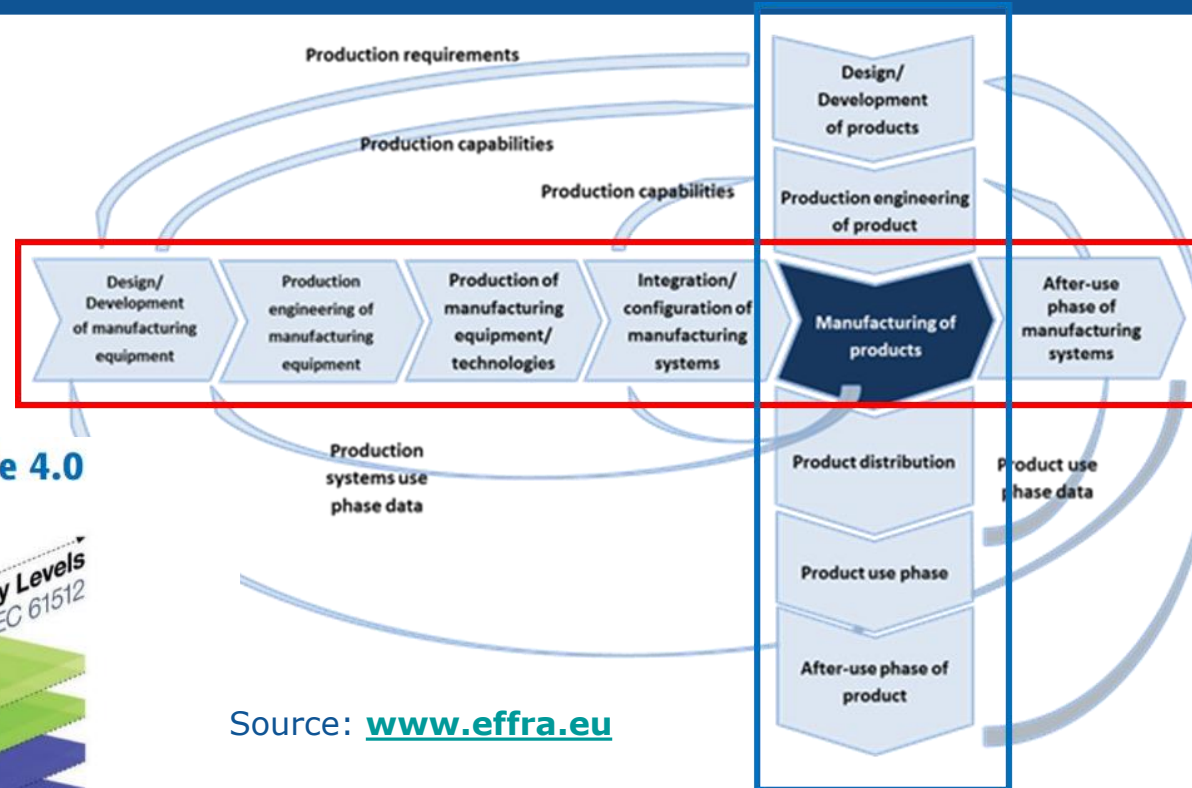|	
Smart Energy/ Utilities	**Smart Transport**
Smart Manu-facturing	**Ageing Well**
Smart Farming	**Smart Homes**
Smart Building	**Smart City**

- >> "Whoever controls the platforms will rule the future" >>
- What strategy for European actors / markets / regulators?
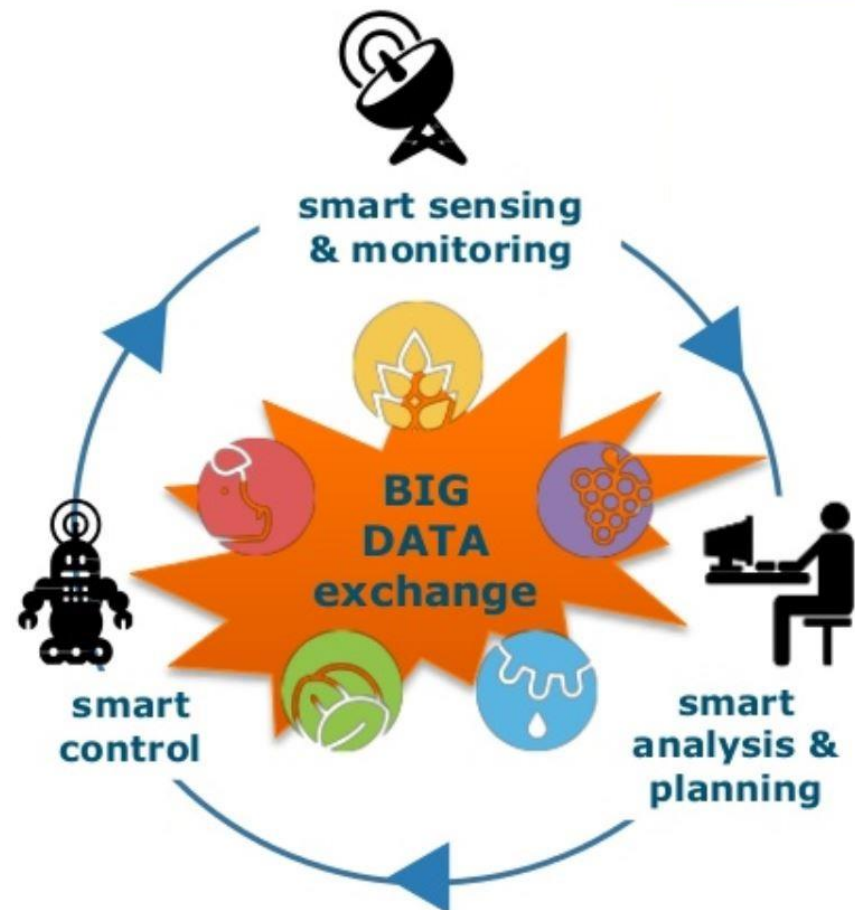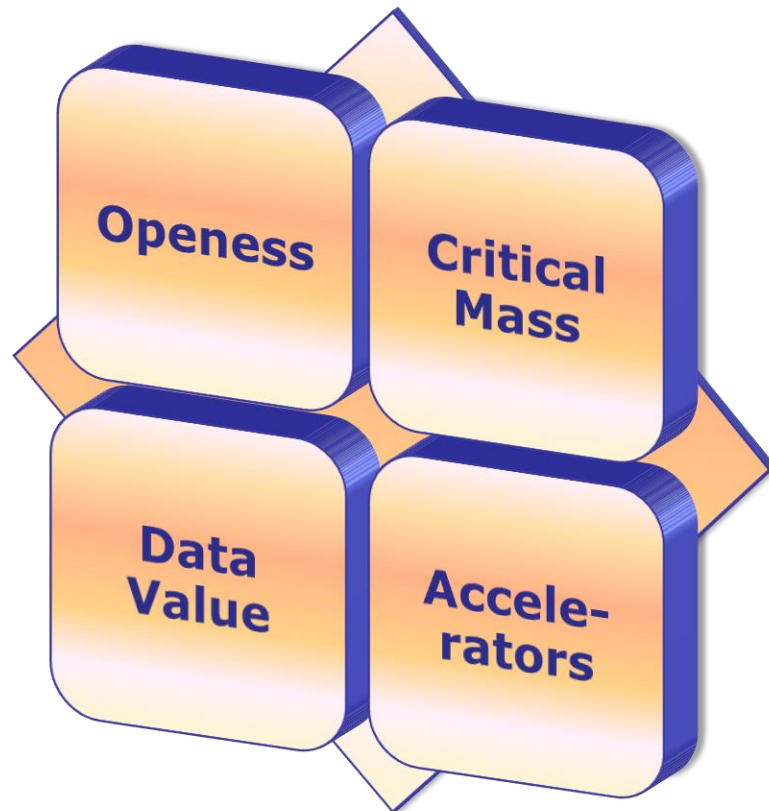
4

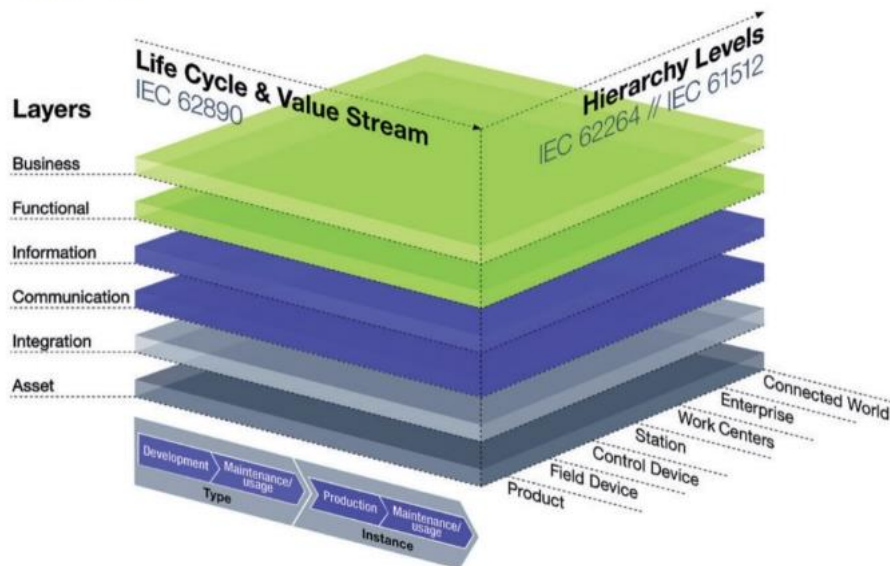**Reference Architectural Model Industrie 4.0**
(RAMI 4.0)

Source: **www.effra.eu**

Source: Plattform Industrie 4.0

Large-scale Pilots:
➢ *Applying a reference architecture model*
➢ *Driving standardisation for connectivity and semantic interoperability*

5

DIGITAL MANUFACTURING PLATFORMS

- Agile Value Networks: Lot-size One

- Zero-defect Processes and Products

- Machines & Human Competences

- Sustainable Value Networks

PLUG & PRODUCE EQUIPMENT PLATFORM

…

AGRICULTURAL DIGITAL INTEGRATION PLATFORMS

- Optimize farm operations

- High-precision farming

DIGITAL SERVICE PLATFORMS FOR RURAL ECONOMIES

…

SMART HOSPITAL OF THE FUTURE

SMART AND HEALTHY LIVING AT HOME

- Healthy & independent living

- Early risk detection and intervention

…

INTERNET OF THINGS FOR ENERGY: INTEROPERABLE AND SMART HOMES AND GRIDS
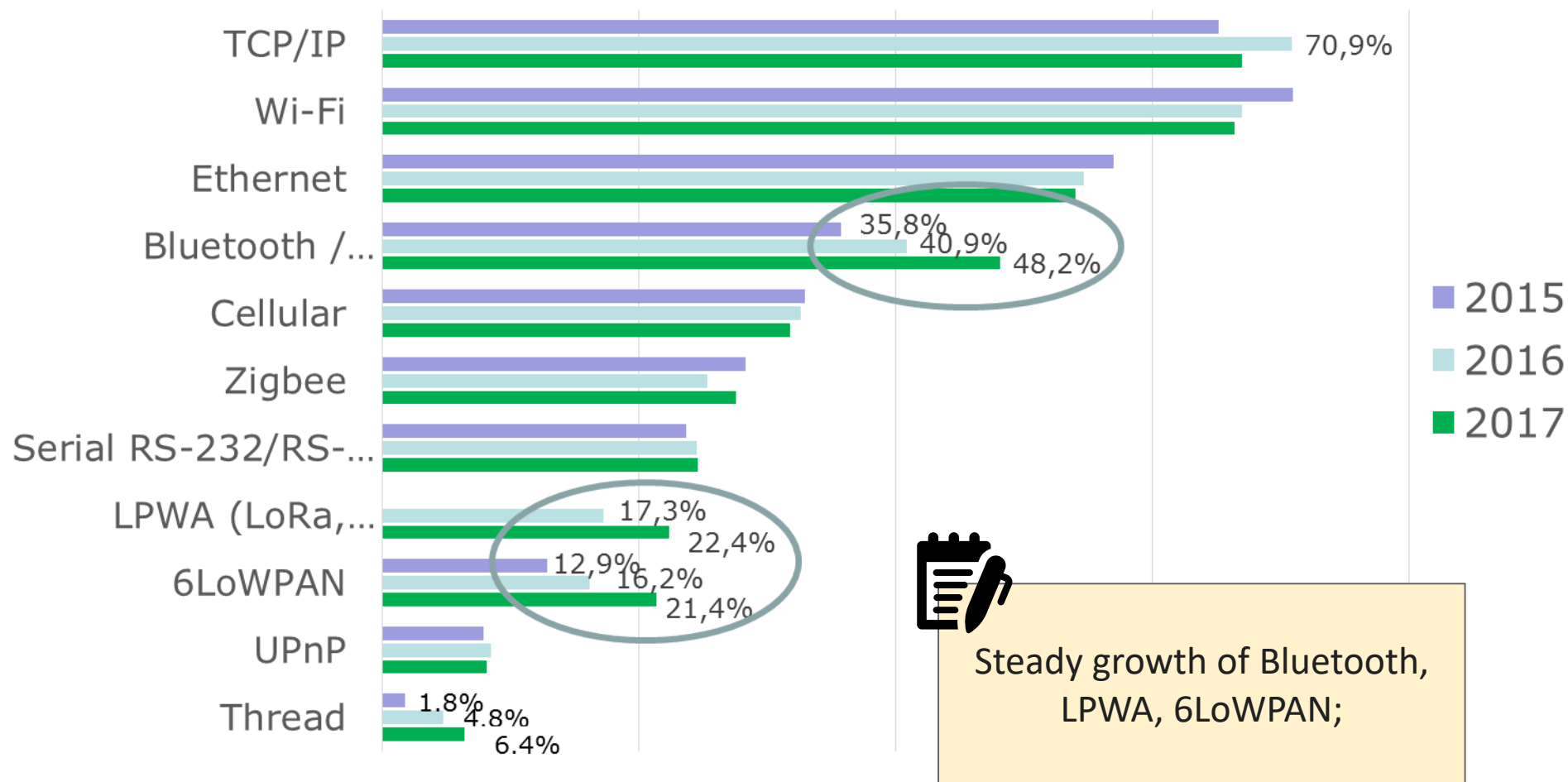
BIG DATA SOLUTIONS FOR ENERGY

…

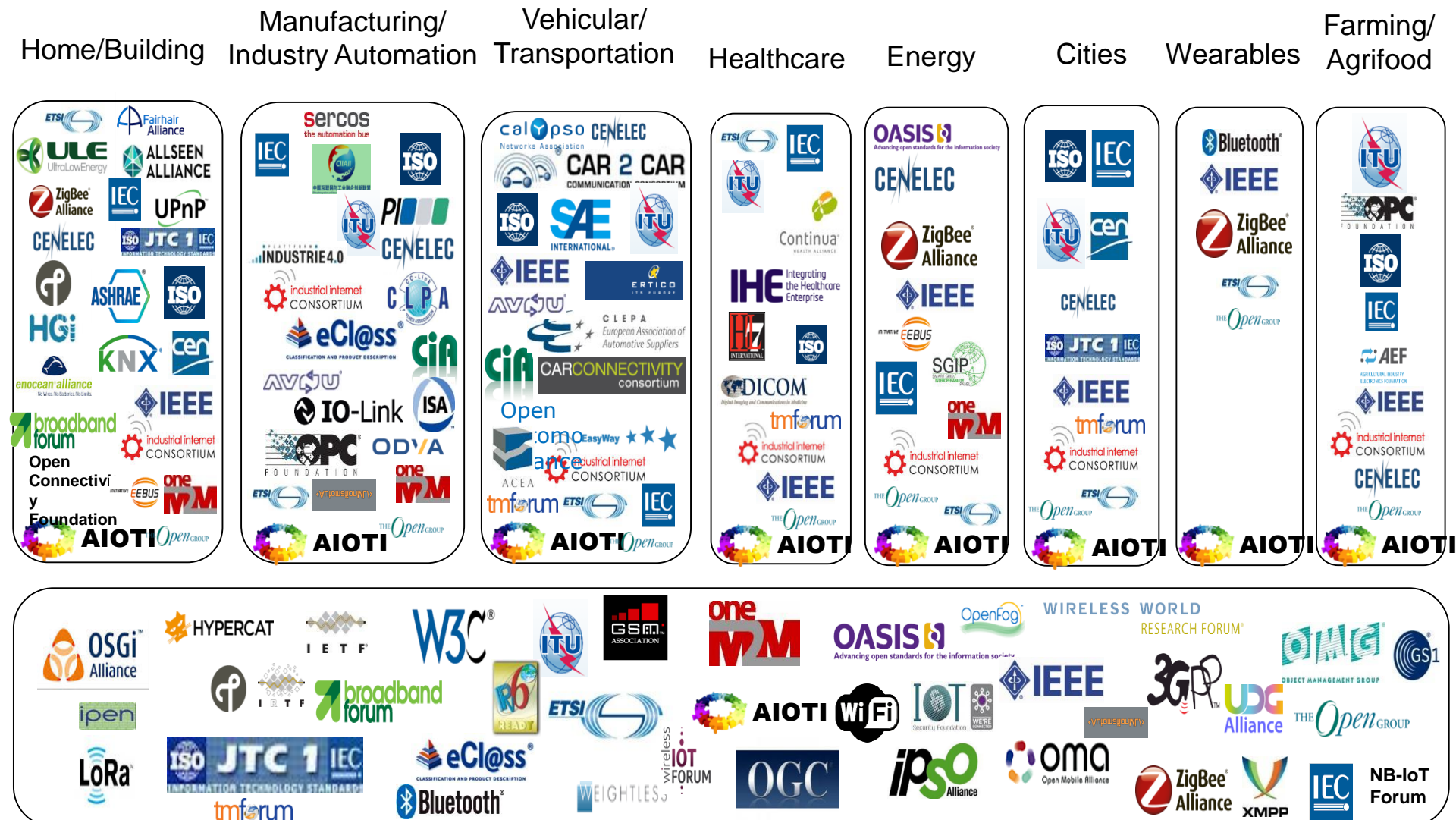**5G FOR CONNECTED AND AUTOMATED DRIVING**

…

Cross-cutting platforms, IoT, Big Data, Security...

2015
2016
2017

Steady growth of Bluetooth, LPWA, 6LoWPAN;

IoT SDOs and Alliances Landscape

Source: AIOTI WG3 (IoT Standardisation) – Release 2.6

- Co-ordinated by ETSI, with support of the AIOTI

- Identification of business
  scenarios and applicable
  (or needed) standards
  → Mapping

- Collaboration of multiple "verticals",
  - Focus on cross siloes use cases
  - Reference Architecture Models are cross-cutting

- Applicability/demonstrability of standards in large scale pilots to be implemented under H2020 WP 2016-17

- Standards supporting the emergence of IoT platforms and ecosystems

Thank you - useful links

- Digitising European Industry Strategy (DEI):
  https://ec.europa.eu/digital-single-market/en/digitising-european-industry → **FUTURIUM**

- European IoT Platform Initiative EPI
  http://IoT-EPI.eu

- The Alliance of Internet of Things Innovation
  http://www.AIOTI.eu

- EUSEW 2017: 21 June in Brussels
  http://EUSEW.eu/digitisation-energy

- NetFutures 28-29 June
  http://netfuturesconference.eu/