European Commission

Workshop on Digitising European Industry

EUROPEAN DIGITAL TRANSFORMATION AND STANDARDISATION

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Digital Transformation of European Industry

A recognised yet untapped opportunity with positive outcomes

75% of respondents regard digital technologies as an opportunity

64% of companies investing in digital technologies have generated positive outcomes

44% of respondents have adopted at least two of the seven key digital technologies

Low adoption rate of the seven key technologies in the three surveyed industries

Mobile services **26%**

Cloud technology **23%**

Social media **23%**

Robotic and automated machinery **22%**

Internet of Things **19%**

Big data and data analytics **19%**

Cybersecurity solutions **16%**

DIGITAL TRANSFORMATION AND STANDARDISATION

➢ **EU Digitising European Industry (DEI) package: ICT Standardisation Priorities for the DSM**

➢ **Joint initiative on Standardisation Action 14: Standardisation to support digitisation of European industry**

THE ICT STANDARDISATION PRIORITIES

TWO PILLAR-PLAN

1.- Priority setting

Identification of priority building blocks

1. Cloud Computing
2. Internet of Things
3. 5G
4. Cybersecurity
5. Data

2.- Delivery

High-level political process

validation, monitoring , update of actions

1. Working closely with ESO's & SDOs
2. Involving Council & Parliament
3. Improving EU support for priorities (H2020, CEF, pilots)
4. Fair and non-discriminatory access - (IPR/SEPs)
5. Stronger international EU's presence & cooperation

Pillar 2- Delivery process

1. **Working closely with ESOs & SDOs to validate**

2. *Involving Council & Parliament*

3. *Improving EU support for priorities (H2020, CEF, pilots)*

4. *Ensuring Fair and non-discriminatory access - (IPR/SEPs)*

5. *Stronger international EU's presence & cooperation*

1→ Joint input ESOs + MSP

2→ Inter-institutional Report on the implementation of EU standardisation policy + EP reports

3→ EU funded projects contributing to standardisation

4→ Guidance on Standard Essential Patents (SEPs)

5 → CSA to Reinforce European presence in international ICT standardisation under evaluation

Pillar 1- Priority setting and vertical domains

- *Five key technology building blocks (*5G, cloud computing, IoT, (big) data, cyber-security)

- **Will benefit application areas (eHealth, smart energy and cities, ITS / connected & automated vehicles, advanced manufacturing …)**

- For each: clear deliverable with deadline and who does what

POSITIVE EFFECT ON OTHER AREAS & POLICY OBJECTIVES

Applications

Services

Building Blocks

Cybersecurity

Digital Transformation of EU Industry

Smart Energy | Advanced Manuf. | ITS | eHealth

Cloud | IoT | 5G

Data

FOCAL AREAS OF PRIORITY PLAN

European
Commission
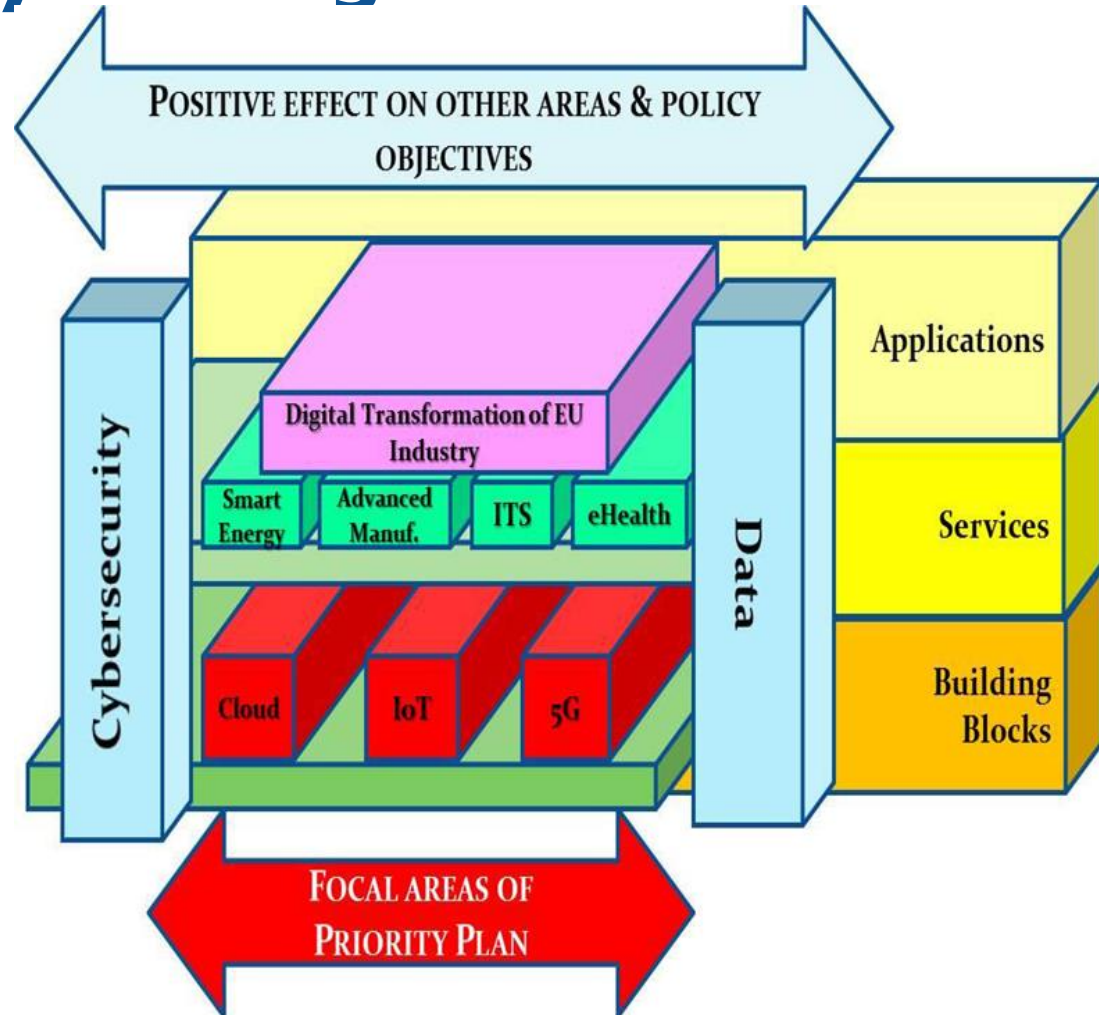
DEI priorities

- Promote the development of:
  - Interoperability standards
  - European reference architectures
  - Open cross-sectorial platforms
  - Experimentation, validation, interoperability testing facilities
  - Trusted labels and certification schemes
- Launch lighthouse pilot projects
  - JU ECSEL
  - Standards Validation
  - Large scale test-beds

Current initiatives

IoT SDOs and Alliances Landscape

Home/Building | Manufacturing/Industry Automation | Vehicular/Transportation | Healthcare | Energy | Cities | Wearables | Farming/Agrifood
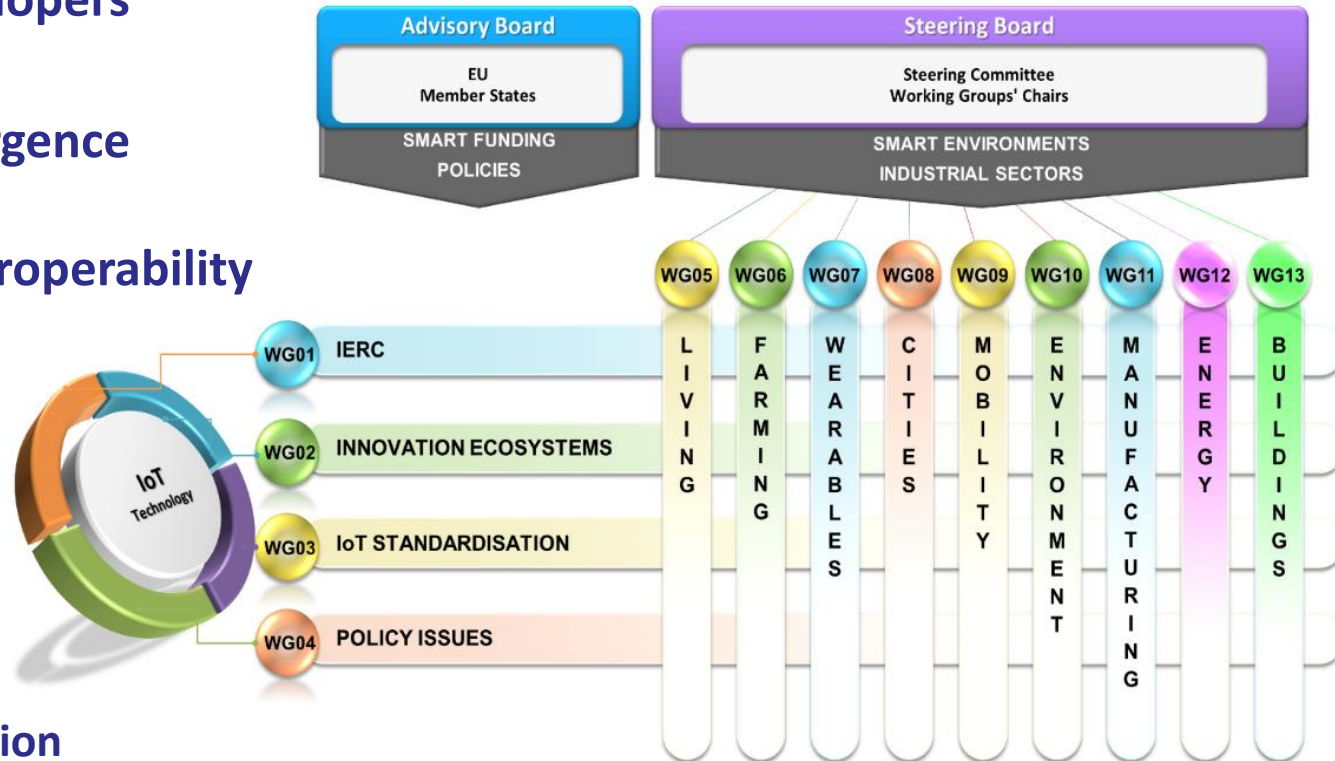
Horizontal/Telecommunication

Source: AIOTI WG3 (IoT Standardisation) – Release 2.6

European Commission

Policy cooperation:

- **Open Platforms that accelerate innovation by companies and communities of developers**

- **Advancing IoT convergence across verticals for standardisation/ interoperability**

- Get connected on **www.AIOTI.eu**

- **WG03: IoT Standardisation**

ALLIANCE FOR INTERNET OF THINGS INNOVATION - AIOTI

Advisory Board | Steering Board

EU Member States | Steering Committee Working Groups' Chairs

SMART FUNDING POLICIES | SMART ENVIRONMENTS INDUSTRIAL SECTORS

WG01 IERC
WG02 INNOVATION ECOSYSTEMS
WG03 IoT STANDARDISATION
WG04 POLICY ISSUES

IoT Technology

WG05 LIVING · WG06 FARMING · WG07 WEARABLES · WG08 CITIES · WG09 MOBILITY · WG10 ENVIRONMENT · WG11 MANUFACTURING · WG12 ENERGY · WG13 BUILDINGS

Big Data Value PPP (BDV PPP):

- ✓ Create **Value** out of the **Data**!
- ✓ Boost **European Big Data research** and **Innovation**
- ✓ Strengthen **Competitiveness** and ensuring **Industrial Leadership**

- Work together to organize an **IMPACTFUL program**

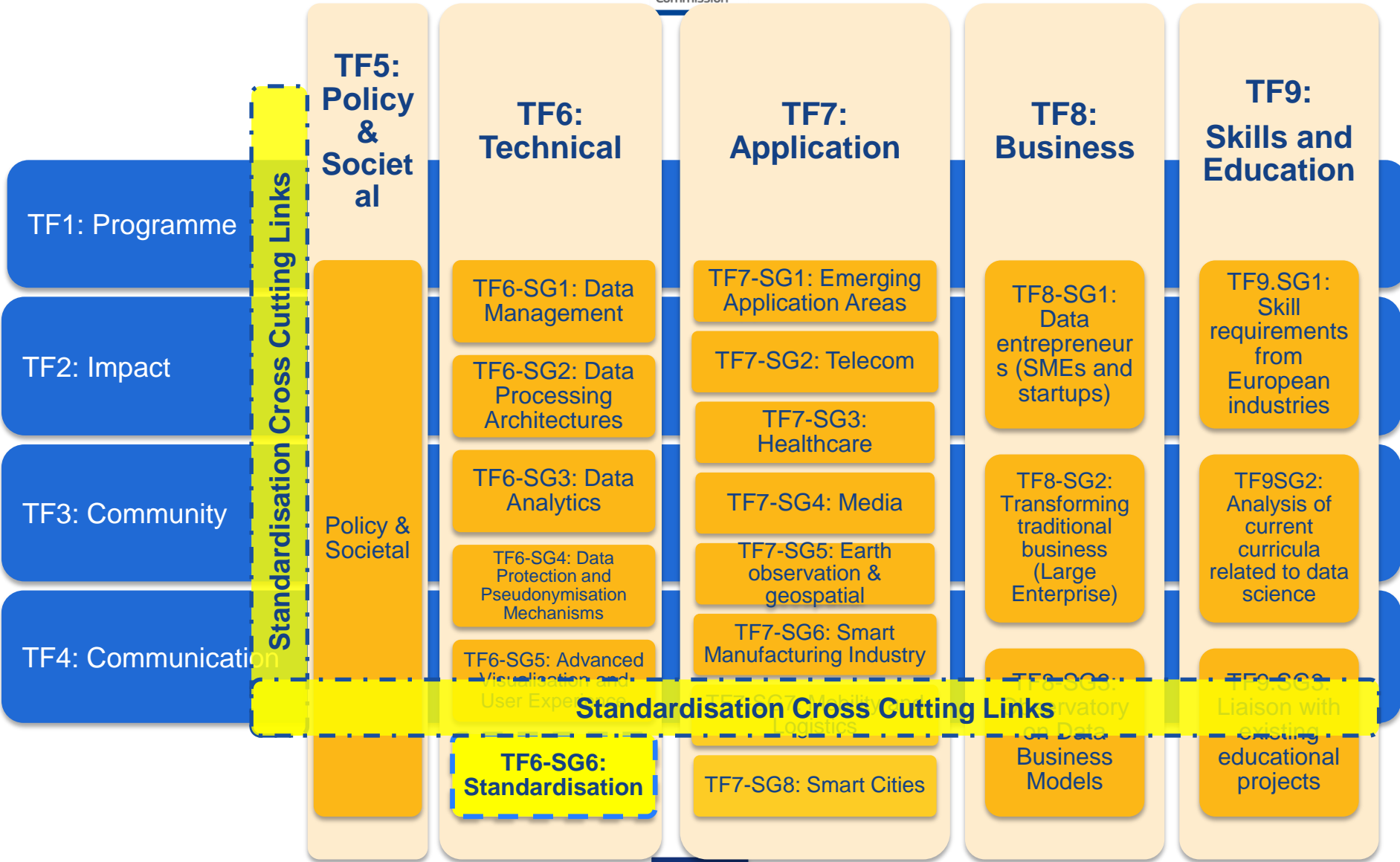- **Efficiency**: Further develop the EU big data ecosystem (**i-Spaces**)

- Proof points**: Demonstrate the impact of Big Data** and show the value in **Lighthouse** projects

- **Innovation:** Create impactful **research** results

- Get connected on www.bdva.eu

BDV BIG DATA VALUE ASSOCIATION

European Commission

TF1: Programme

TF2: Impact

TF3: Community

TF4: Communication

Standardisation Cross Cutting Links

TF5: Policy & Societal

Policy & Societal

TF6: Technical

TF6-SG1: Data Management

TF6-SG2: Data Processing Architectures

TF6-SG3: Data Analytics

TF6-SG4: Data Protection and Pseudonymisation Mechanisms

TF6-SG5: Advanced Visualisation and User Experience

TF6-SG6: Standardisation

TF7: Application

TF7-SG1: Emerging Application Areas

TF7-SG2: Telecom

TF7-SG3: Healthcare

TF7-SG4: Media

TF7-SG5: Earth observation & geospatial

TF7-SG6: Smart Manufacturing Industry

TF7-SG7: Mobility and Logistics

TF7-SG8: Smart Cities

TF8: Business

TF8-SG1: Data entrepreneurs (SMEs and startups)

TF8-SG2: Transforming traditional business (Large Enterprise)

TF8-SG3: Observatory on Data Business Models

TF9: Skills and Education

TF9.SG1: Skill requirements from European industries

TF9SG2: Analysis of current curricula related to data science

TF9.SG3: Liaison with existing educational projects

Standardisation Cross Cutting Links

Workshop 19 September 2017, BU25 S1

Purpose: *Involve national initiatives to build a European ecosystem on standardisation for digitalisation / Industry4.0 and propose a European approach with concrete actions.*

Content:

- *National initiatives & supporting infrastructures such as experimental test beds, fieldlabs etc.*
- *Landscape analysis of standardisation activities*
- *Identify the common contribution from ESOs*
- *Analysis manufacturing sector: showcase/pathfinder, gaps and how the European industry can bridge these gaps*
- *Present the Horizon-2020 approach to accelerate standardisation*
- *Industry and national initiatives to identify their contributions in order to best scale them up through European initiatives*

Conclusions – Reflection Points

- *There is a need for more & better cooperation: Coordination of ESOs, stakeholders, including verticals*

- *Support standardisation through LSP*

- *Digitisation of industry brings challenges to be resolved through a collective EU-wide effort.*

- *International cooperation, ensuring EU representation*

➢ *We need agreement on common actions to support the EU standardisation strategy on DEI*

➢ *First workshop 19th September: need speakers*

Thank you!