



# ICT STANDARDISATION PRIORITIES FOR THE DIGITAL SINGLE MARKET

DIGITISING EUROPEAN INDUSTRY  
FIRST STAKEHOLDER FORUM

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Antonio Conte, Project Manager

Unit "KETs, Digital Manufacturing and Interoperability"

DG Internal Market, Industry, Entrepreneurship and SMEs

European Commission

# DIGITAL ECONOMY

**72%** of EU individuals  
uses INTERNET regularly

 **150 Million**  
subscriptions  
fixed Broadband

**130** mobile  
subscriptions  
per 100 people



**ICT drives 1/3<sup>rd</sup>**  
**EU GDP growth**  
2001-2011

## DIGITAL BUSINESS



**HALF** of EU enterprises  
provide mobile devices for  
business use

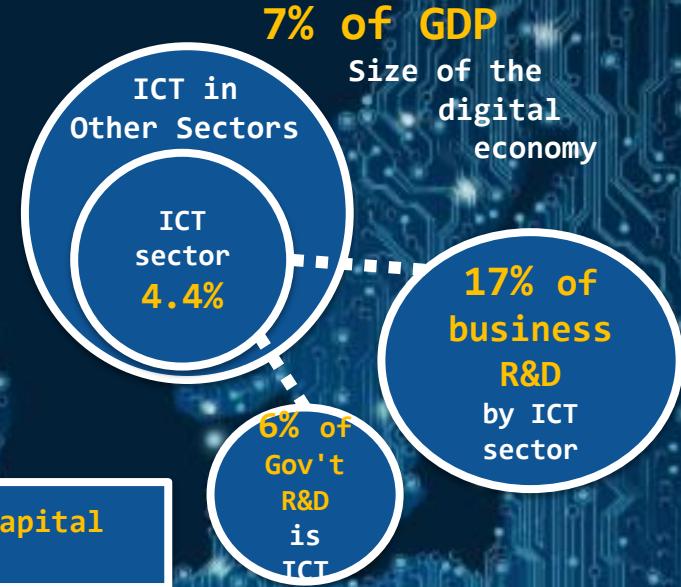
**276.5 million EUR**  
turnover  
of EU B2C eCommerce (2012)

**14%** of EU SMEs  
selling online



 **28%** EU enterprises  
use Social media

**29%** of EU  
enterprises  
use e-Invoices



**38%** EU venture capital  
is in ICT

**17%** EU patents  
are in ICT

## ICT professionals

**825 000** estimated  
demand/supply gap by 2020

**55%**  
work outside ICT sector



**2.8%**  
of workforce

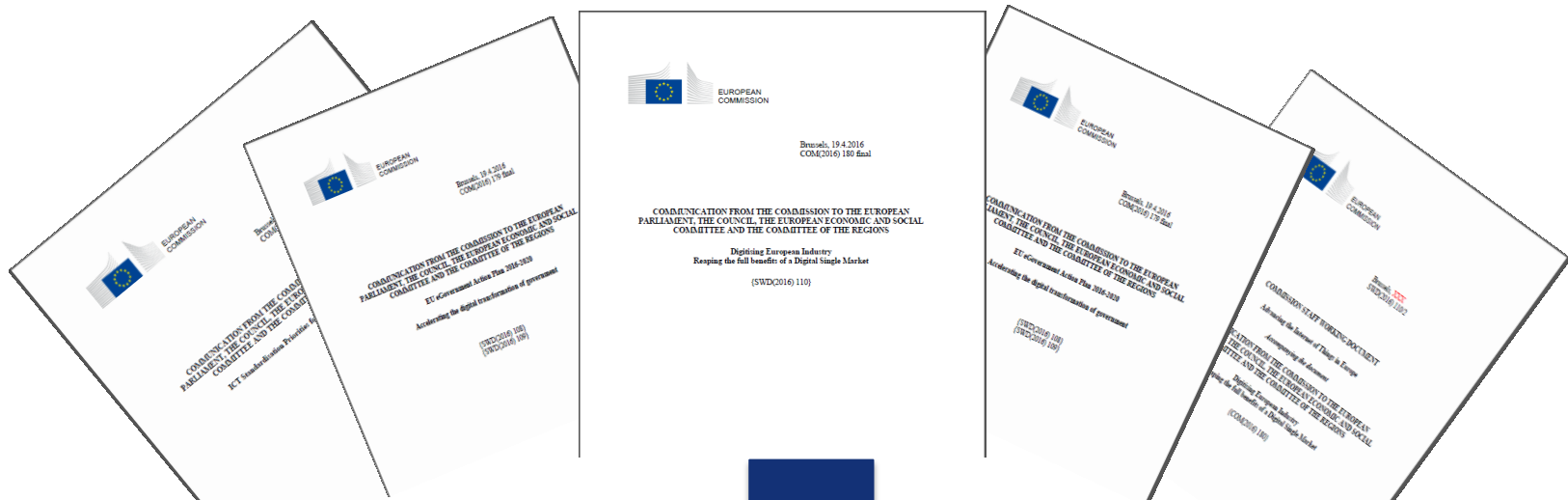
**+ 3-4%**  
yearly employment growth

# Delivering on the DSM Strategy

*'19 April 2016 Package'*

***First industry-related package  
under the DSM Market strategy***

*Set of coherent policy measures aiming at the digital transformations of our industries and at maximising their impact on economic growth*



# 19 April 2016 Package

- **Communication on Digitising European Industry**
- **Communication on European Cloud initiative**
  - Vision document and framework for future actions
- **Communication on the e-Government Action Plan**
  - Digital transformation of public services
- **Communication on ICT standardisation priorities for the DSM [COM(2016) 176]**
  - + set of ancillary Staff Working Documents

## **COM(2016) 176 - Objective**

To ensure that ICT-related standards are more responsive to policy needs, agile, open, more strongly linked to R&I, and better joined-up

**Greater impact for the wider  
European economy  
as it transforms into a digital one**

## COM(2016) 176 – Key principles

- Standardisation will remain industry-led, voluntary and consensus-driven but with clearer priorities for ICT & high-level political process for delivery
- Need for more cross-sector partnerships
- More validation of standards through R&D experiments



## RESPONSE: 2 PILLAR-PLAN

### ***1.- Priority setting***

**Identification of priority  
building blocks**

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

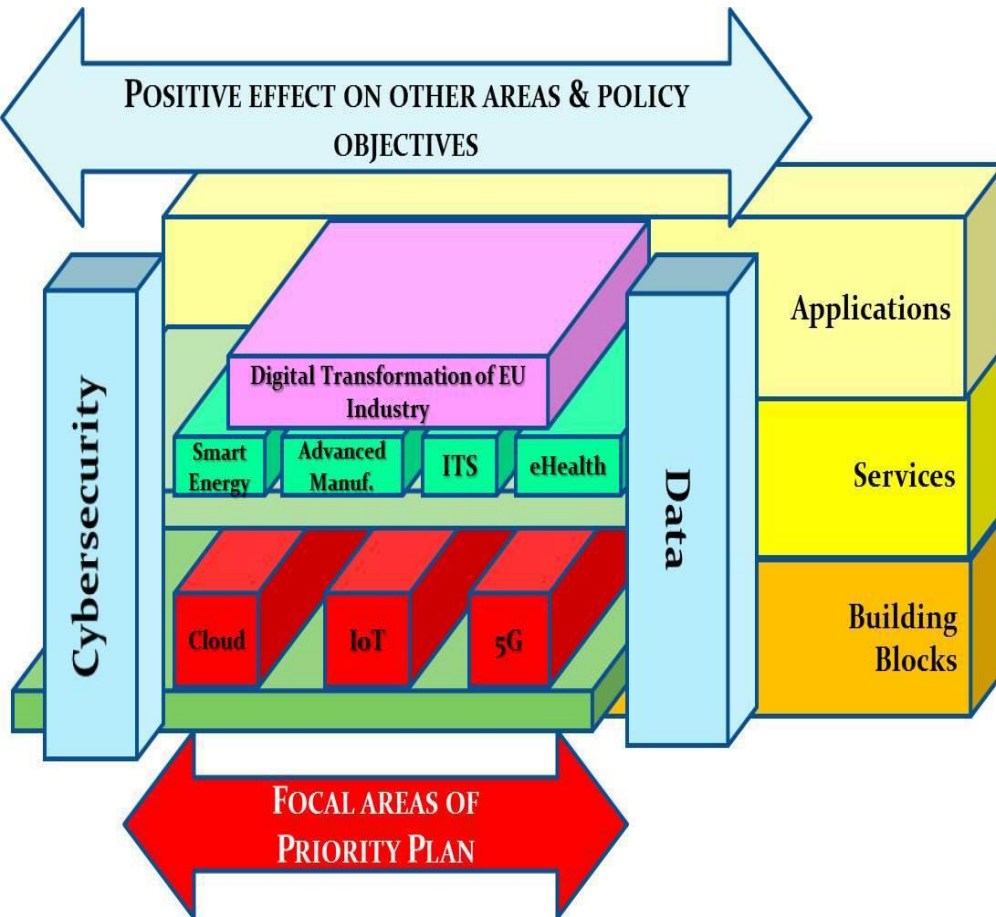
### ***2.- Delivery***

**High-level political process  
validation, monitoring , update of actions**

1. Working closely with std Community
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

**2 parts need to be pushed together  
with stakeholders at EU and international level**

# 1<sup>ST</sup> PILLAR: PRIORITY SETTING



- Key building blocks for DSM identified: 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

➔ clear set of detailed priorities & list of tasks

➔ Involvement of ESO, SDOs & MSP is key!





## eHealth

- More efficiency, smarter use of health data
- Exchange of electronic health records (patient summary data and e-prescriptions)
- Secure, safe and interoperable mHealth apps
- Deployment and scaling up of tele-medicine and tele-monitoring
- Development and adoption of international standards and terminologies



## Transport

- Connected & Automated Vehicles
  - Connectivity & Security standards
  - Open in-vehicle interface
  - Profiling and test suites
  - ESOs & SDOs cooperation
- Large scale deployment projects
  - Interoperability
  - Business models & Data
- Freight & Logistics
  - Data standards

# The wider impact of the prioritised technologies (2/2)



## Advanced Manufacturing

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

## Smart Energy

- ICT standards for
  - transparent & competitive retail markets
  - supporting new services and businesses
- Smart grid & smart appliances => Reduced energy consumption and cost savings
- Smart Homes & Buildings
- High quality security standards for safe energy systems
- Interoperability of MS solutions



## 2<sup>ND</sup> PILLAR: DELIVERY STRATEGY

- European Commission will lead new high-level process to ensure delivery of priorities (building on MSP, ICT Rolling Plan, AUWP, etc.)
  - Success depends on high-level commitment from industry, RDI-community, SDOs, EU and Member States
- ➔ **Detailed delivery strategy:**
- COM to work with standardisation community
  - Regular monitoring of process involving Parliament and Council
  - Improve EU support for priorities (H2020, CEF, pilots)
  - Fair and non-discriminatory access
  - Stronger EU presence in international sphere

# A coherent Framework



European Commission

## Joint Initiative on Standardisation



L 316/12 **1025/2012** 2012/11/21/2012

**REGULATION (EU) No 1025/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**  
of 23 October 2012  
on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/14/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/185/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council  
(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 114 thereof;

Having regard to the proposal from the European Commission;

After transmission of the draft legislative act to the national parliaments;

Having regard to the opinion of the European Economic and Social Committee (1);

Acting in accordance with the ordinary legislative procedure (2);

Whereas:

(1) The primary objective of standardisation is the definition of voluntary technical or quality specifications which current or future products, production processes or services may comply. Standardisation can cover various issues, such as standardisation of different grades or sizes of a particular product or technical specifications in product or service markets where compatibility and interoperability with other products or systems are essential;

(2) European standardisation also helps to boost the competitiveness of enterprises by facilitating in particular the free movement of goods and services, network interoperability, means of communication, technological developments and innovation. European standardisation reinforces the global competitiveness of European industry especially when established in coordination with the international standardisation bodies, namely the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC) and the International Telecommunication Union (ITU). Standards produce significant positive economic effects, for example by promoting economic interpenetration on the internal market and encouraging the development of new and improved products or markets and improved supply conditions. Standards thus normally increase competition and lower costs; economies as a whole and standards may maintain an information and ensure its reliability, thereby increasing safety;

(3) European standards are adopted by standardisation organizations, namely:

(4) European standards play a vital role for innovation.

EUROPEAN COMMISSION

Brussels, 16.2.2016  
COM(2016) 357 final

## AUWP

Standardisation package

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL AND THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE

The annual Union work programme for European standardisation for 2017

(SWD/2016) 185 final



MSP

COM (2016) 176

# Contacts

## *European Commission*

*DG Internal Market, Industry, Entrepreneurship and SMEs  
Unit F3: KETs, Digital Manufacturing and Interoperability  
B-1049 Brussels  
E-mail: [grow-f3@ec.europa.eu](mailto:grow-f3@ec.europa.eu)*

*DG Communications Networks, Content & Technology  
Unit F3: Start-ups and Innovation  
B-1049 Brussels  
E-mail: [cnect-f3@ec.europa.eu](mailto:cnect-f3@ec.europa.eu)*

# Useful Links

## ICT standardisation webpages

[http://ec.europa.eu/growth/sectors/digital-economy/ict-standardisation\\_en](http://ec.europa.eu/growth/sectors/digital-economy/ict-standardisation_en)

<https://ec.europa.eu/digital-single-market/en/standardisation>

## COM(2016) 176 "ICT standardisation priorities for the DSM"

<https://ec.europa.eu/digital-single-market/en/news/communication-ict-standardisation-priorities-digital-single-market>