

Standardisation in Support of the Digital Single Market Strategy

Round Table Event
Brussels, 30 June 2015



Overview

**ICT
Standardisation
and Policy
Objectives**

**Standardisation
processes
Standardisation
and Innovation**

**Trends and
Challenges**

**Collaboration
for Supporting
the DSM**

Regulation, Policy Making and Standardisation

Legal Framework

- EU Regulation 1025/2012
- Patent law
- Competition law

Regulation

- Health, safety, environment, public interest
- New Approach / New Legislative Framework
- Standardisation Requests, Mandates
- Annual Union Work Programme

Industrial / Innovation Policy

- Digital Single Market
- EU Rolling Plan for ICT Standardisation
- National Digital Agendas or similar policies

Public Procurement

- Procurement Directives, ICT Procurement Guidelines
- European Interoperability Framework
- National Interoperability Frameworks, policies, etc.

Research

- Horizon 2020 and R&D (EU Research funding)
- National R&D programmes

Basic rules and processes

Regulatory requirements for market access

Principle of voluntary standardisation

Presumption of conformity based on European Standard

Support global competitiveness

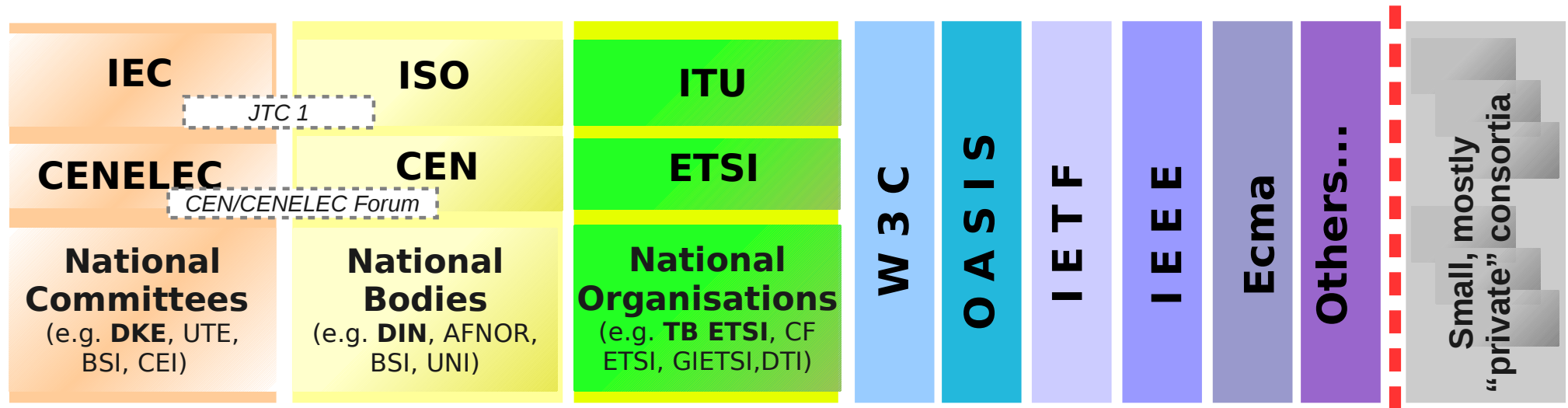
Promote uptake of new technologies

Promote interoperability

Support referencing standards in public tenders and implementing standards based solutions

Foster innovation and knowledge and technology transfer

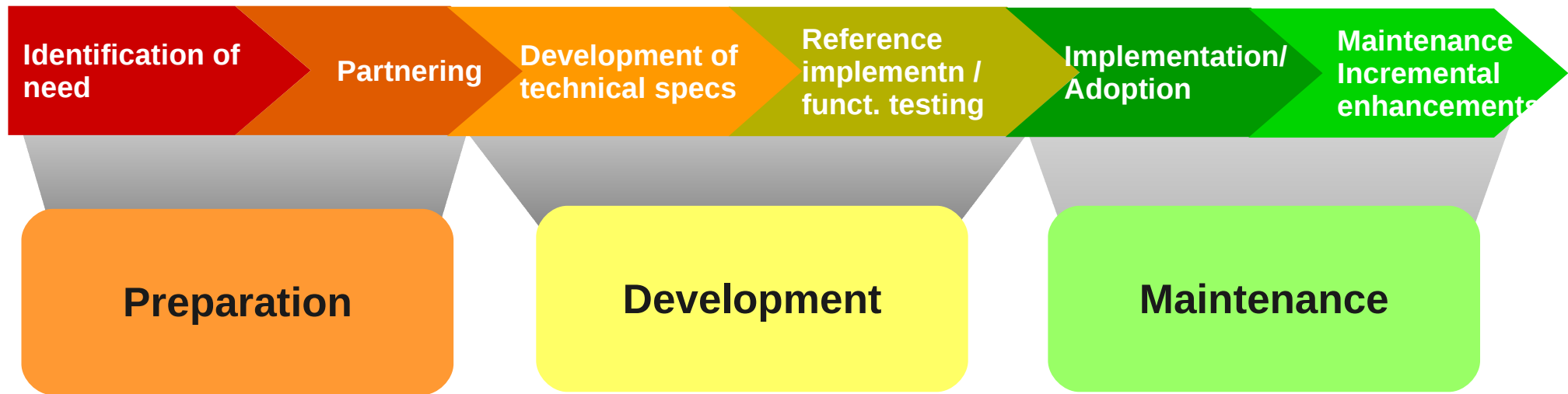
Global ICT Standardisation Ecosystem



A large number of relevant and successful ICT standards are developed in global, industry driven standards bodies (aka "fora/consortia").

Global standards are of critical importance for serving the global market and being competitive.

Typical Lifecycle of Successful Standardisation



Market need

Stakeholder support (bottom-up)
Broad adoption and market uptake

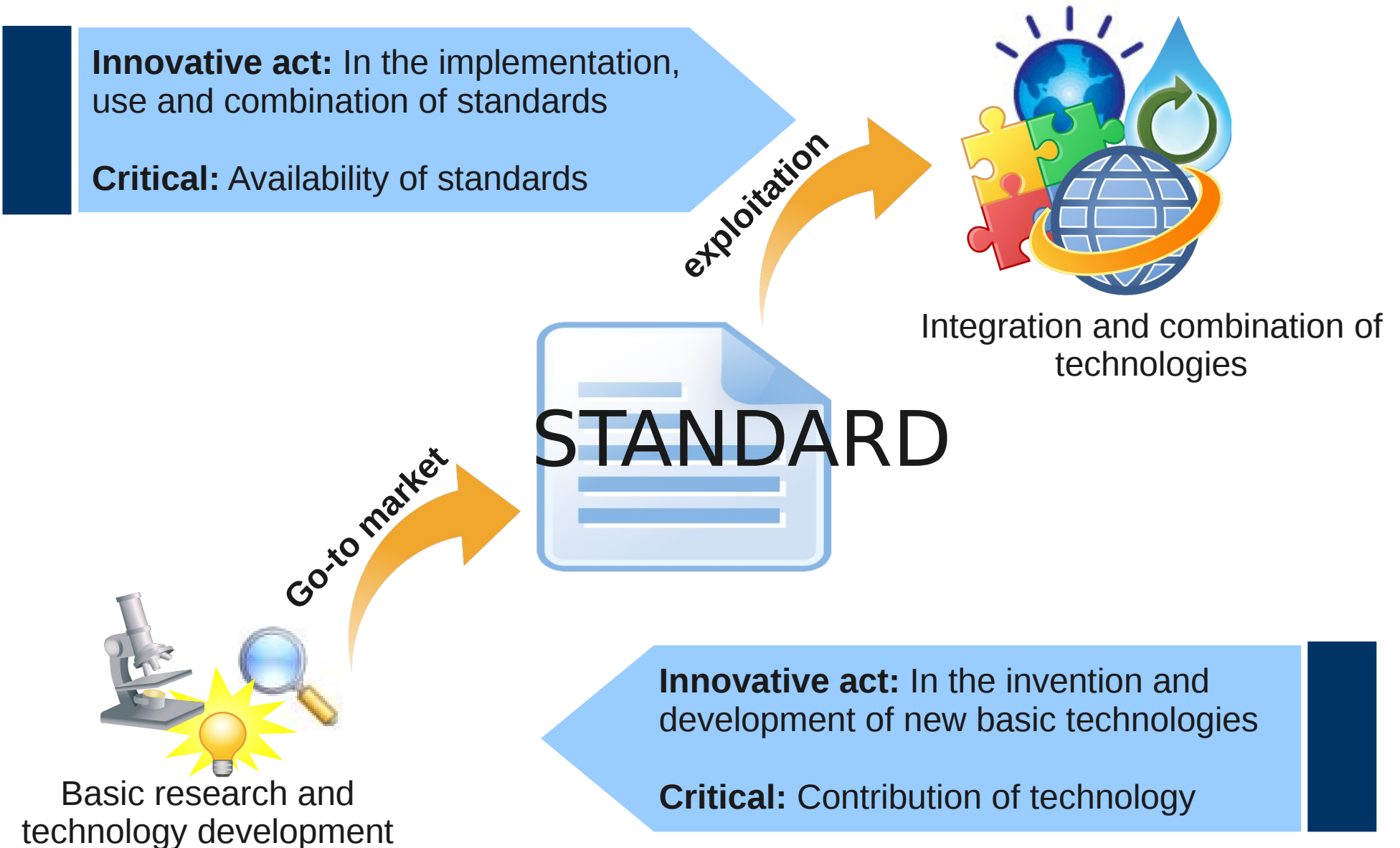
High quality

State-of-the-art technology
Requires contribution of key global experts

Timeliness

Includes the aspects of the required quality, consensus and speed.

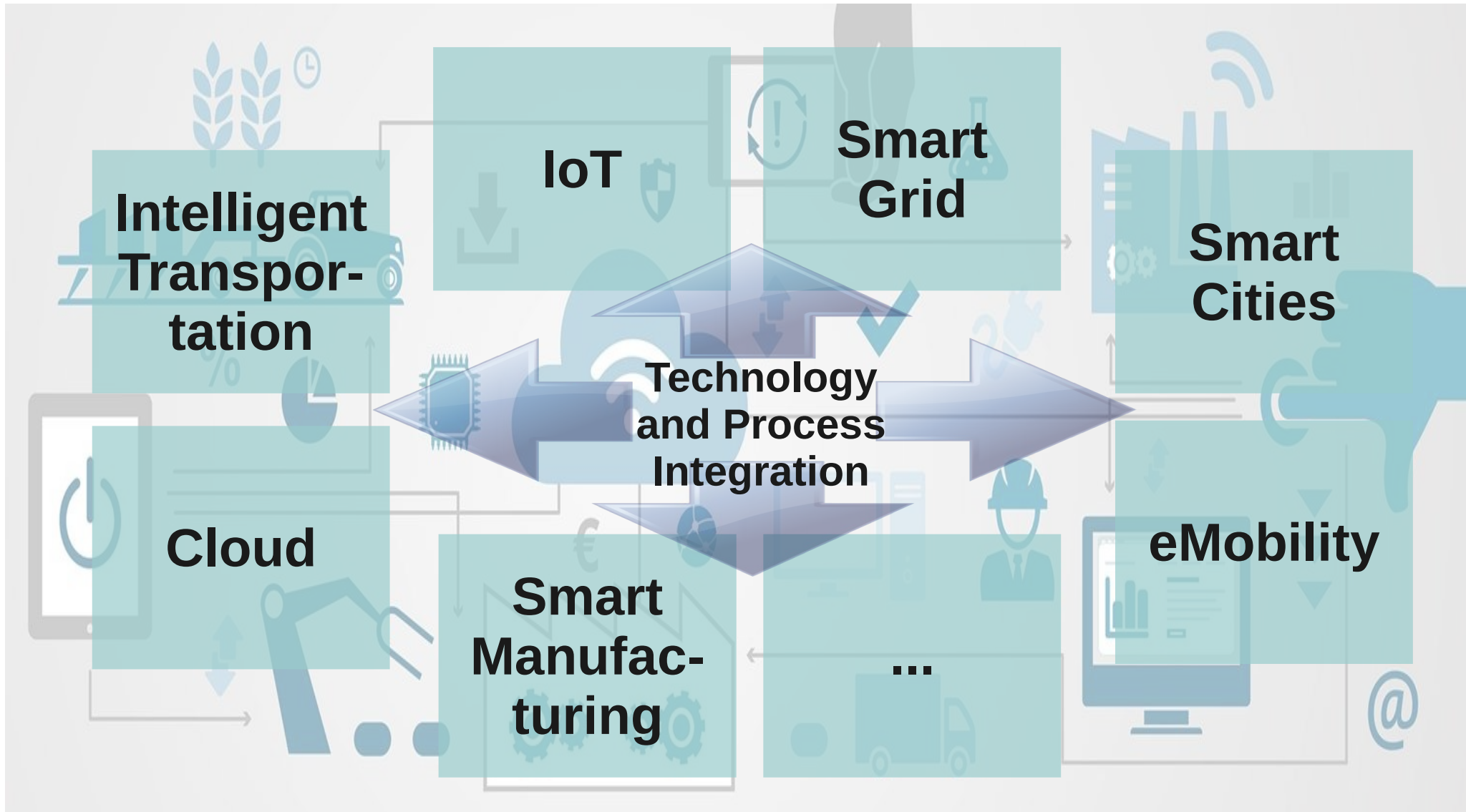
Standardisation and Innovation



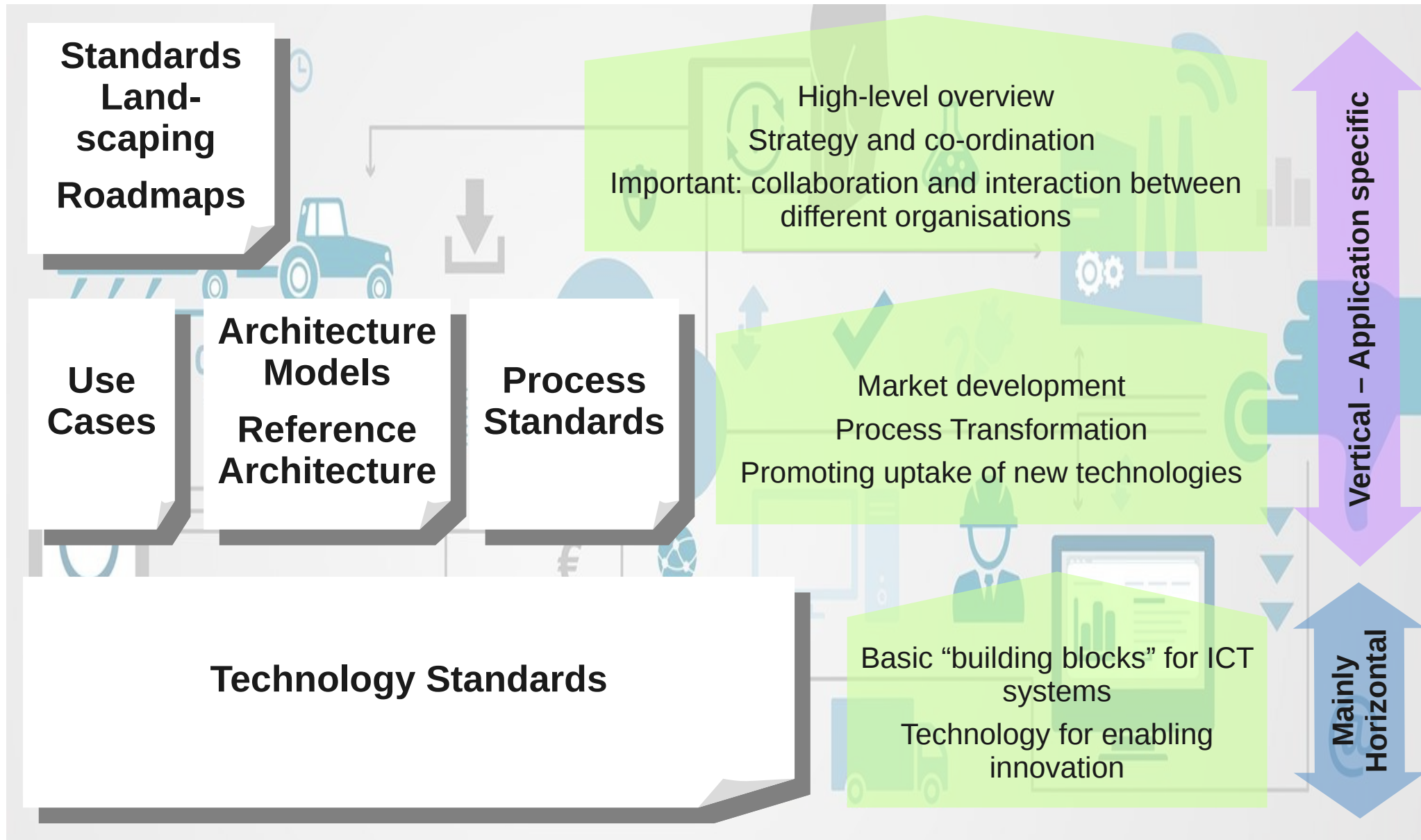
Different Roles of Standards at the Intersection to Innovation



From Products to Systems – New Challenges for ICT Standardisation

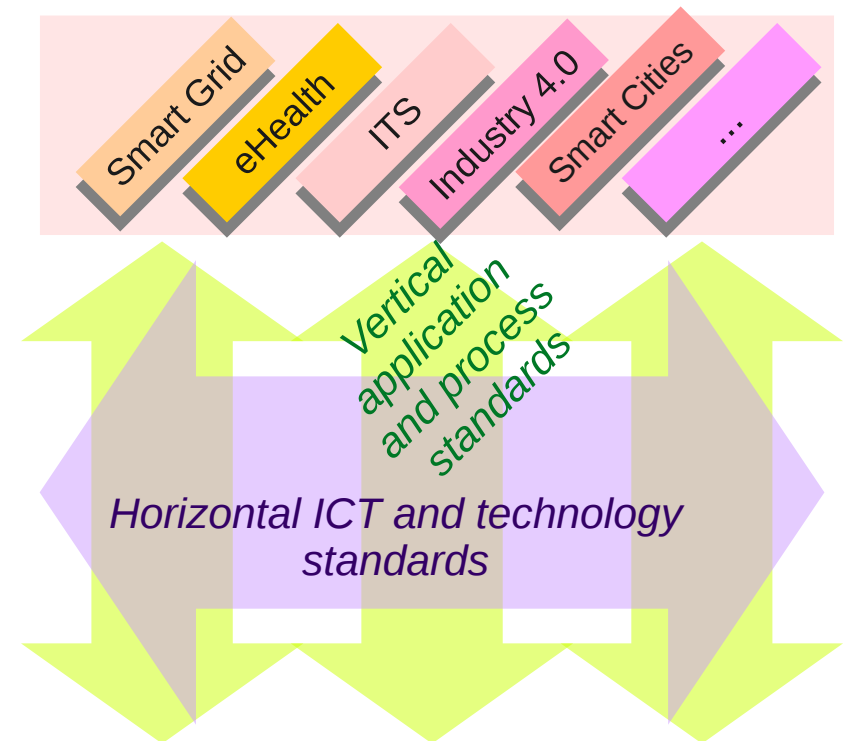


Standardisation in Innovative and Complex Domains



Coordination and Collaboration

- There is no such thing like THE Internet of Things standard, or THE smart cities standard
- Basic technology standards are mostly available from different European and global standards bodies (including fora/consortia)
- Landscapings, Roadmaps, Reference Architectures are developed in multiple organisations – often duplicating respective efforts
- Coordination and collaboration can help to reduce efforts
- Structures for coordination in response to European policy needs should be inclusive, i.e.
 - Consider all available global standards and
 - Allow all relevant organisations and stakeholders to contribute on even ground
 - Allow global key experts to contribute



Promoting Interoperability versus “Soft Regulation”

Increasing activity: selecting standards

Roadmaps, Mappings or Catalogues for areas of importance (Cloud, Internet of Things, Big Data, ...)

Promote interoperability and uptake of standards

Reference lists, e.g. used in public procurement



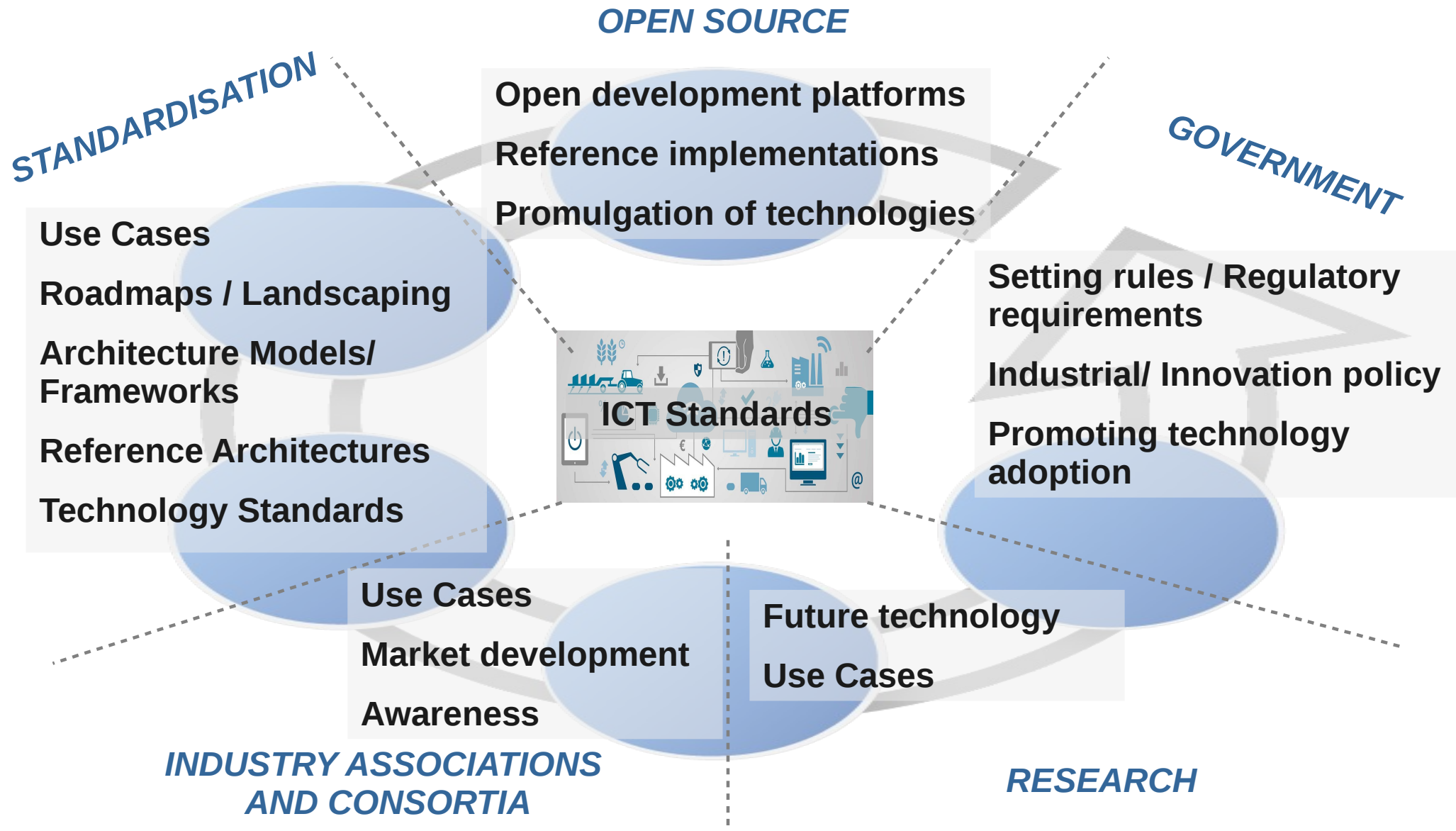
Governments set “standards” via such lists they commission or set up

Even though these lists are not binding they are relevant in the context of industrial policy

This may lead to de facto or “soft regulation” in non-regulated domains.

Balance between promoting interoperability and Soft Regulation is critical

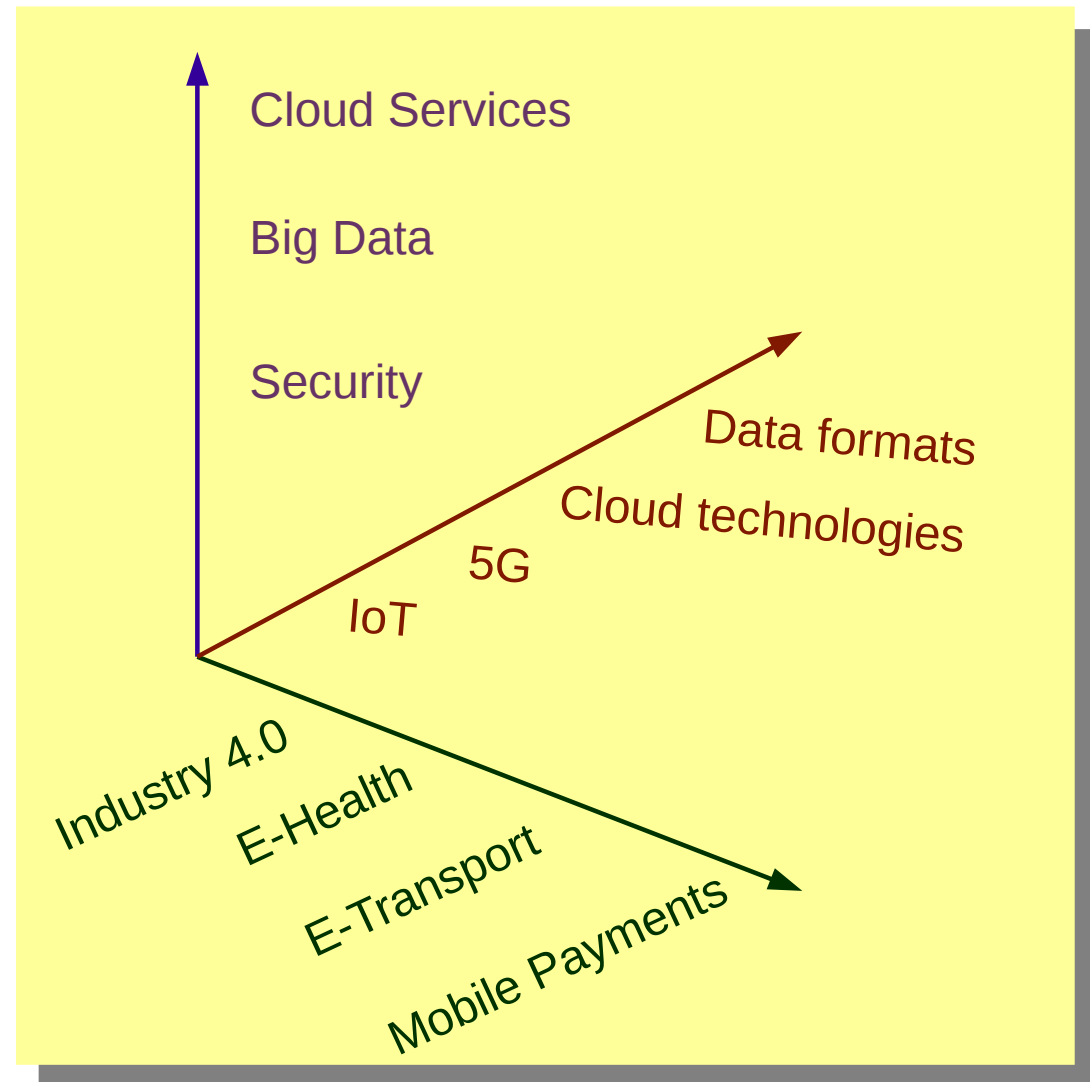
The Ecosystem Broadens



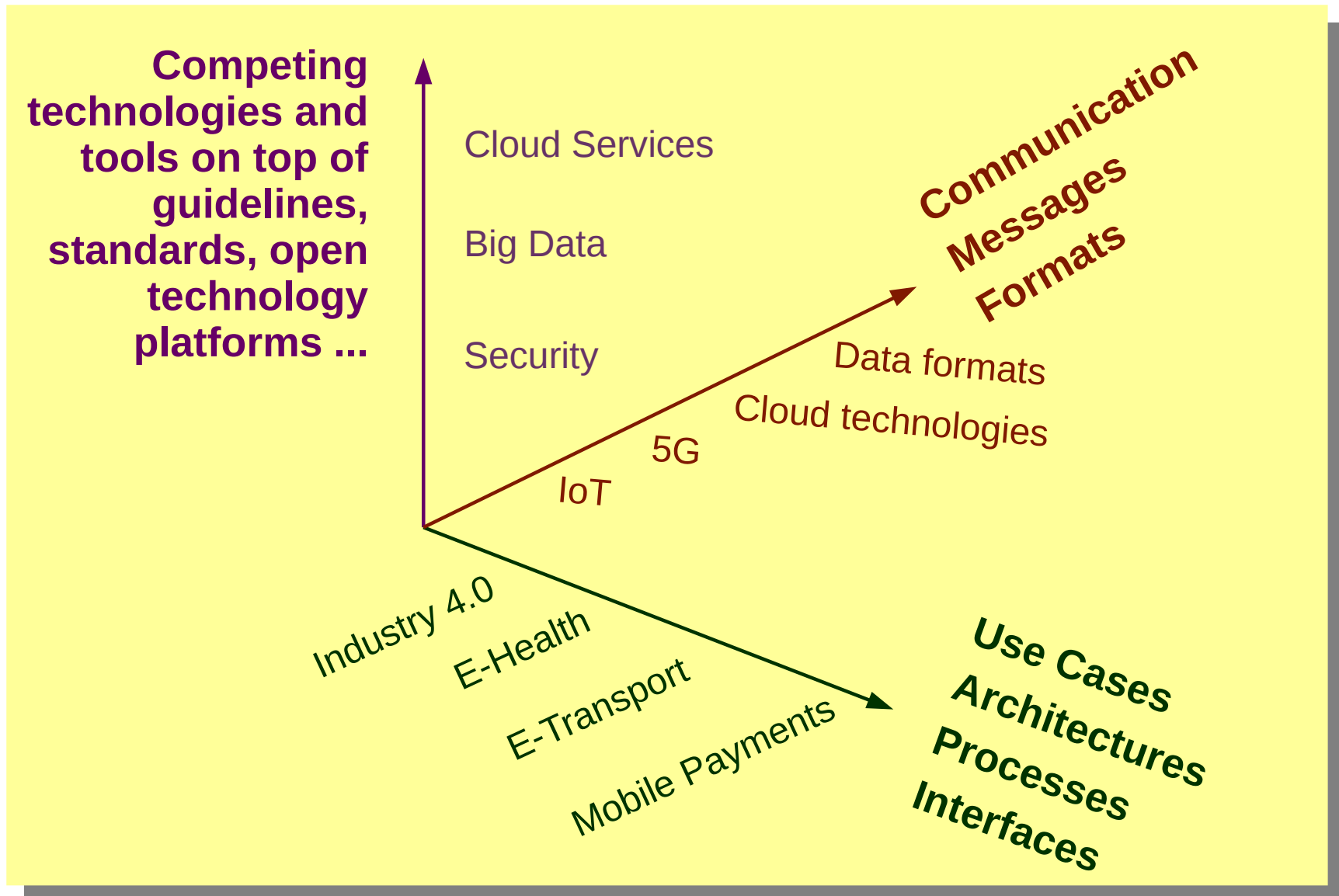
Digital Single Market Priorities

Standardisation has an essential role to play in increasing interoperability of new technologies within the Digital Single Market. It can help steer the development of new technologies such as 5G wireless communications, digitisation of manufacturing (Industry 4.0) and construction processes, data driven services, cloud services, cybersecurity, e-health, e-transport and mobile payments. [...] We need to define missing technological standards that are essential for supporting the digitisation of our industrial and services sectors (e.g. Internet of Things, cybersecurity, big data and cloud computing) and mandating standardisation bodies for fast delivery.

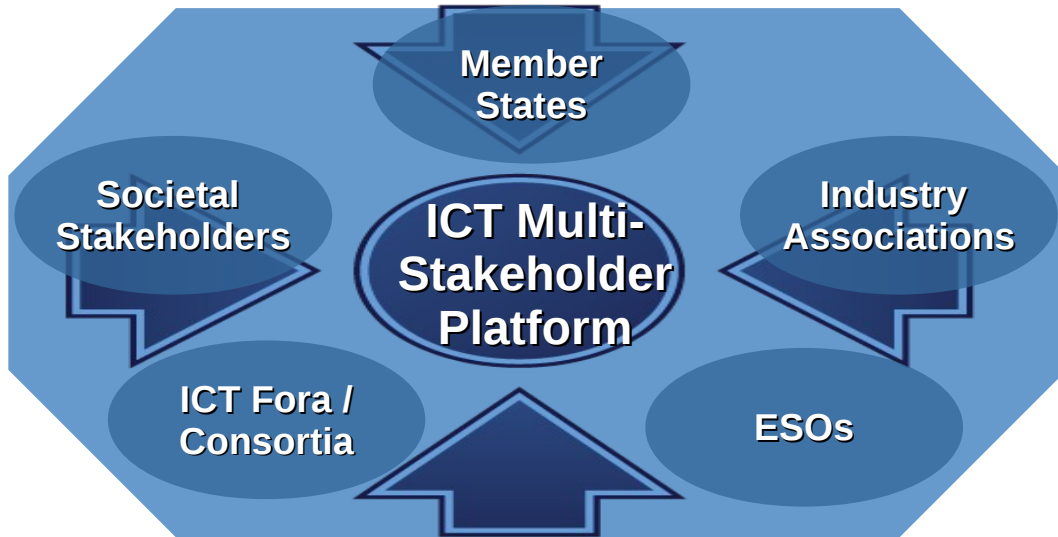
[COM(2015) 192, p. 15]



Towards a Strategy for Action



ICT Multi-Stakeholder Platform



Identifikation of global ICT technical specifications for use in public procurement
(Regulation 1025/2012, Cons 32., Art. 13 & 14, Annex II)

Initiative: Public Authority

Advice: MSP

Sectorial Experts

Commission Decision

In order to further innovation and competition, the identification of a particular technical specification should not disqualify a competing technical specification from being identified ...
(Regulation 1025/2012, Consideratum 32)

EU Rolling Plan for ICT Standardisation



Unique government – stakeholder collaboration

Fast and direct advice on standards policy issues

In progress: complementary key priority plan as announced in the DSM

Concluding Remarks

- Global standards, developed in global industry-driven standards bodies, are most critical for the success of ICT technologies.
- ICT standards are at the heart of the evolvement of innovative systems. This includes different aspects regarding the relation between standardisation and innovation.
- There are different aspects and layers regarding standardisation in support of policy objectives.
- The broadening of the standards ecosystem requires a common understanding and practice of roles and responsibilities to avoid unnecessary duplication of efforts
- Structures and processes might be modernised for being well suited to facilitate coordinated standardisation work in support of policy objectives
- Government – stakeholder cooperation has established as extremely fruitful and successful in Europe and is well positioned to form the core of a successful implementation of the standards related issues outlined in the DSM.

Thanks very much for your attention ...



... Happy to discuss ...