



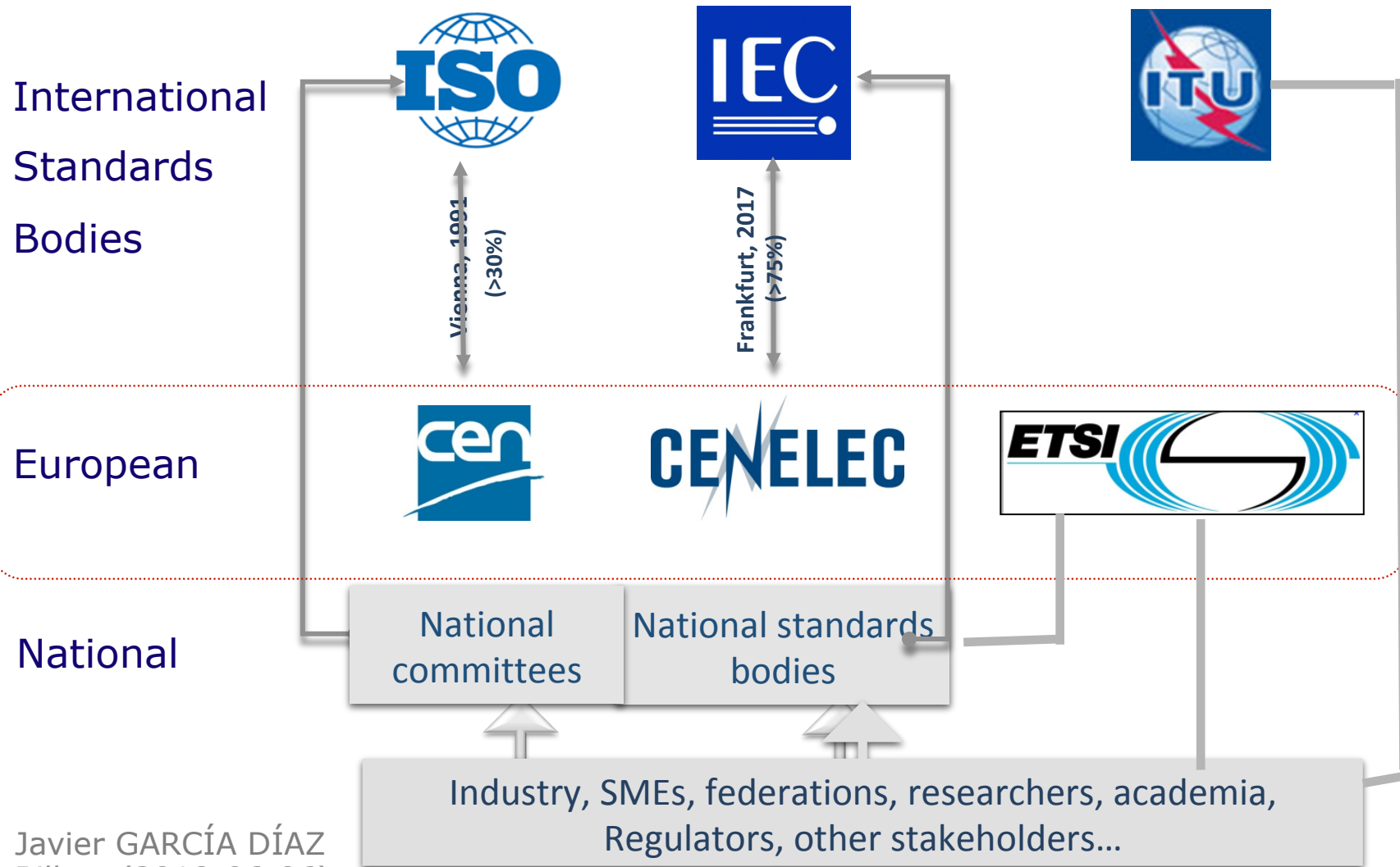
## ***Cross-domain applications (Northbound)***

CEN-CENELEC ICT Standardization activities

**Javier GARCÍA DÍAZ**

IoT for Smart Cities and Communities – Bilbao (2018-06-06)

# Who we are & Where do we fit in



▲ More than **200 000** experts are connected

- ❖ **800** European industry federations and societal stakeholder organizations
- ❖ **30 000** experts in CEN and CENELEC
- ❖ **55 000** experts in ISO and IEC
- ❖ **160 000** participants in national mirror committees



# National Standardization Organizations

34 full members



Javier GARCÍA DÍAZ  
Bilbao (2018-06-06)



# CEN & CENELEC Standardization : Sectors and Topics

## CEN

Bio-based products  
Chemicals  
Construction  
Food  
Heating, Ventilation and Air  
Conditioning (HVAC)  
Materials  
Nanotechnologies  
Pressure equipment  
Services

## CEN & CENELEC

Air and Space  
Consumer products  
Electric Vehicles  
Energy and utilities  
Health and safety  
Healthcare  
ICT  
Machinery safety  
Measurement  
Medical equipment  
Railways  
Security and Defence  
Smart Grids / Smart Meters  
Transport and Packaging

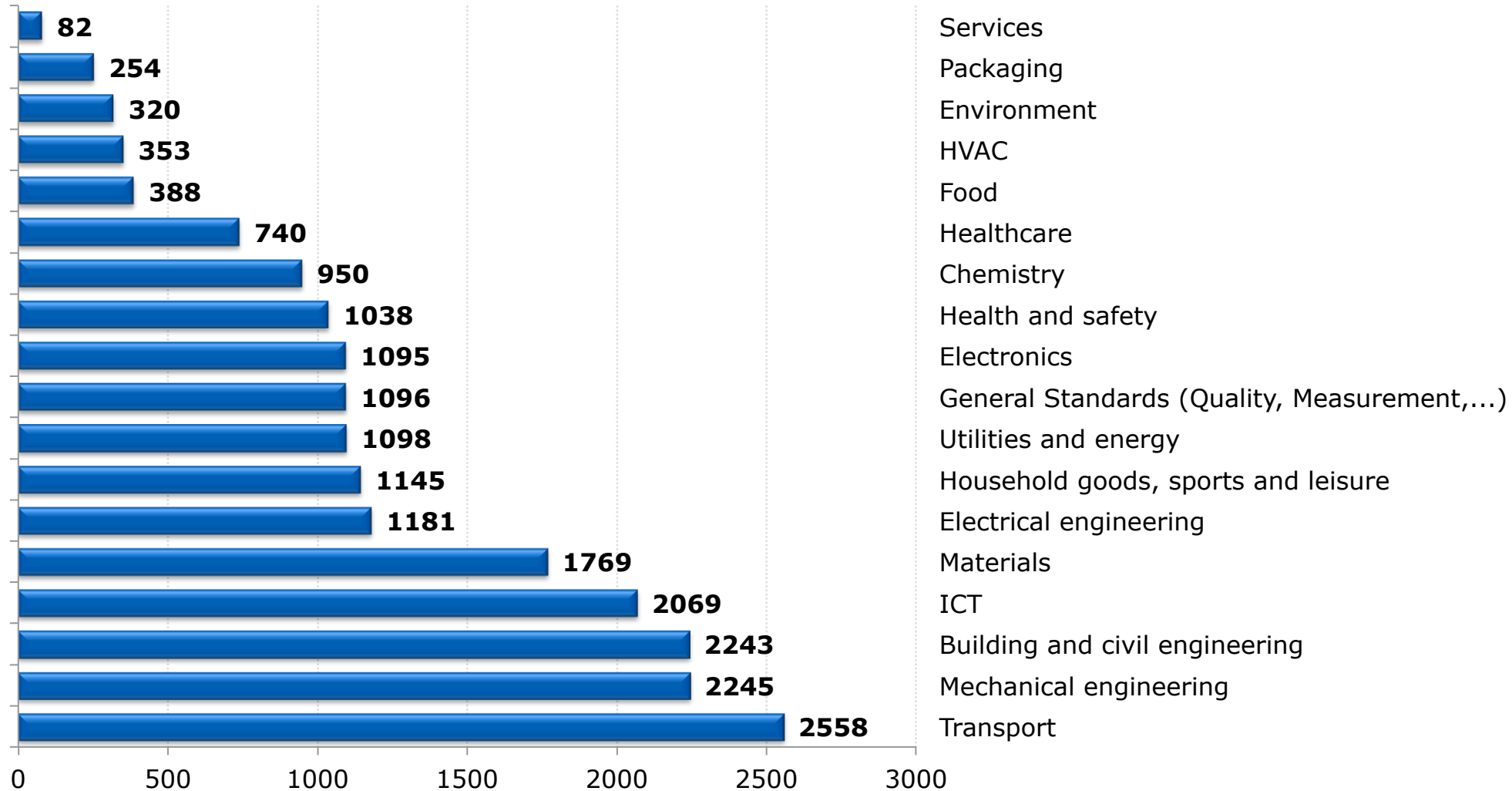
## CENELEC

Electrical engineering  
Electromagnetic Compatibility  
(EMC)  
Fibre-optic communications  
Fuel Cells  
Household Electrical Appliances  
Solar (photovoltaic) electricity  
systems

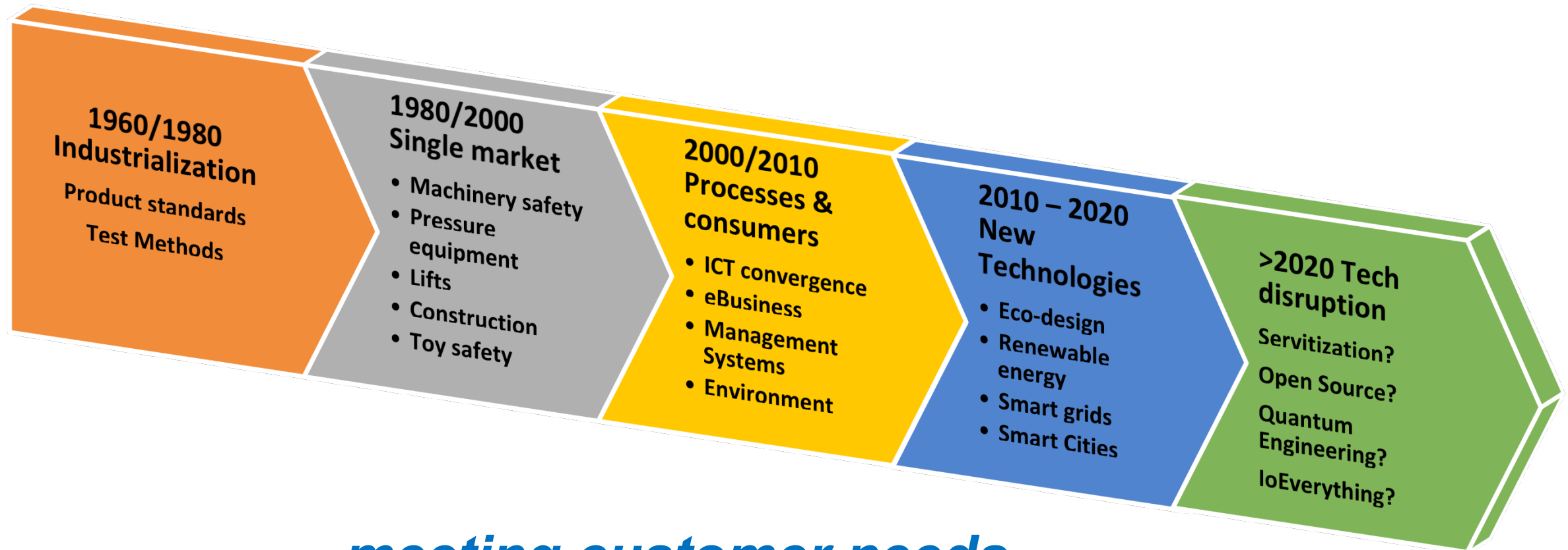
## Cross-sectoral issues

Accessibility | Environmental Protection | Energy-efficiency (Eco-Design)

# CEN-CENELEC Portfolio per business domain



# Market evolution



*...meeting customer needs*

# Digital transformation of industry

- ▲ European industry is increasingly using digital technologies
- ▲ Traditional sectors need ICT standardization responses
- ▲ Rapidly evolving regulatory landscape
- ▲ Growing number of standardization providers
- ▲ R&D-led growth (H2020, FP9...)

# Response... building on:

- ▲ **European Single Market** for goods and services
  - and Synchronizing with regulatory developments
- ▲ **Unique standardization model:** coherence & transparency
  - ISO and IEC alignment: facilitating international trade
  - National Delegation principle: experts from NSBs and NCs
  - The same European experts in CEN, CENELEC, ISO and IEC
- ▲ Bringing innovation and research outputs **to the market**
  - Innovation-friendly & Market-driven, flexible solutions
  - Successful Public – Private partnerships
- ▲ **Ensuring** safety, societal & environmental protection

# Responding to the Digital Challenge

- ▲ Ensure CEN and CENELEC can meet the needs of industry sectors that digitally transform  
→ **Digital transformation of industry**
- ▲ Although the required standards will be developed mainly at international level within ISO/IEC, they have to be adapted to the EU context (Safety , Cybersecurity Regulations...)
- ▲ The Joint MSP/DEI WG on standardisation in support of digitising European industry is currently:
  - ▲ Identifying the standardisation needs of European Industry
  - ▲ Mapping the ongoing activities being carried out
  - ▲ Developing a model for the synchronisation of the standardisation activities

# ICT-related standardization activities:

<b>Cyber Security</b> (CEN-CLC/JTC 13)	<b>E-Privacy</b> (CEN-CLC/JTC 13, JTC 8, and CEN/TC 224)	<b>Smart Meters</b> (CLC/TC 11, CLC/TC 205, CEN/TC 294)	<b>E-Signatures</b> (CEN/TC 224)
<b>ICT competences</b> (CEN/TC 428)	<b>Blockchain</b> (Focus Group on DLT)	<b>Broadband infrastructure</b> (CEN/TC 209, CLC/TC 215)	<b>Advanced Manufacturing</b> (CEN/TC 310, CEN/TC 438)
<b>Construction BIM</b> (CEN/TC 442)	<b>eHealth</b> (CEN/TC 251)	<b>RFID</b> (CEN/TC 225)	<b>eProcurement</b> (CEN/TC 440)
<b>Intelligent Transport Systems</b> (CEN/TC 278)	<b>ICT environmental impact</b> (CLC/TC 215, CLC/TC 205)	<b>eAccessibility</b> (CEN-CLC-ETSI JWG)	<b>Smart Grids</b> (CLC/TC 57, 85X, 59X...)
<b>eInvoicing</b> (CEN/TC 434) Javier GARCÍA DÍAZ Bilbao (2018-06-06)	<b>FinTech</b> (CEN/BTWG FinTech)	<b>Smart Cities</b> (CEN-CLC-ETSI Sector Forum)	<b>Digital Cinema</b> (CEN/TC 457)

# Standardization work supporting Smart & Sustainable Cities

Complex Challenges but Great Opportunities → Long term vision and commitment

→ Holistic approach, priorities

→ Integrated planning,

→ Citizens' engagement

→ Culture of results



Standardization from best practices  
and innovative models/partnership  
in support of:

- *Replication*
- *Business models*
- *Dissemination*

# CEN/CENELEC/ETSI Sector Forum SSCC

smart and sustainable cities and communities

- Horizontal **strategic and advisory body** on smart & sustainable cities and communities
- Permanent representation in European Innovative Partnership initiative from the European Commission (Smart Cities and Communities – **EIP SCC**)
- Permanent representation of **EIP AHA** (Active and Healthy Ageing) through AGE Platform
- Permanent participation of the **European Commission**

**SERVING THE CITIES' NEEDS**



Thank you for your attention

Any questions?