

European Standards

- Supporting sustainable development

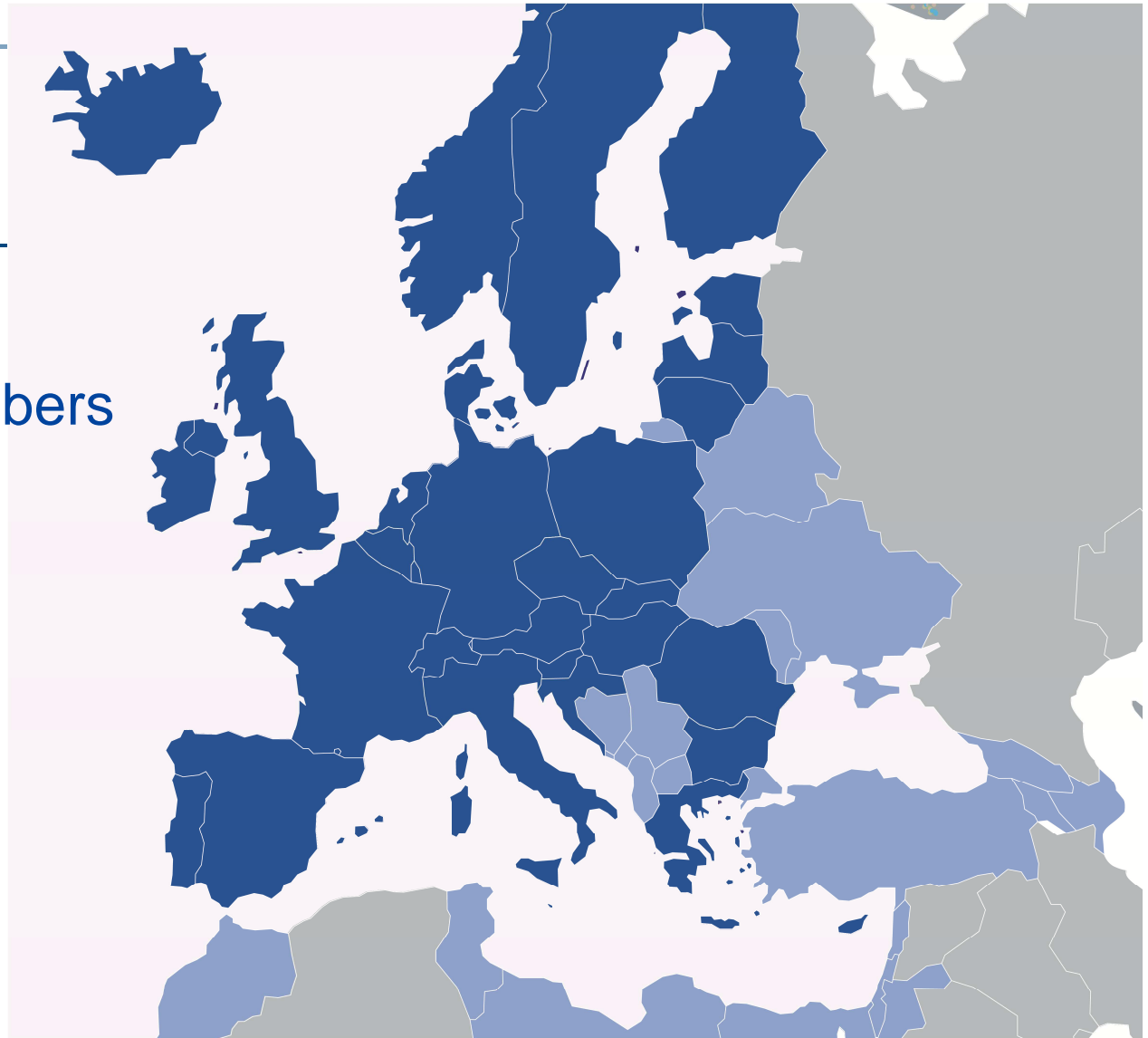
Ashok Ganesh
CEN-CENELEC Management Centre

CEN & CENELEC

- 31 National Members

plus:

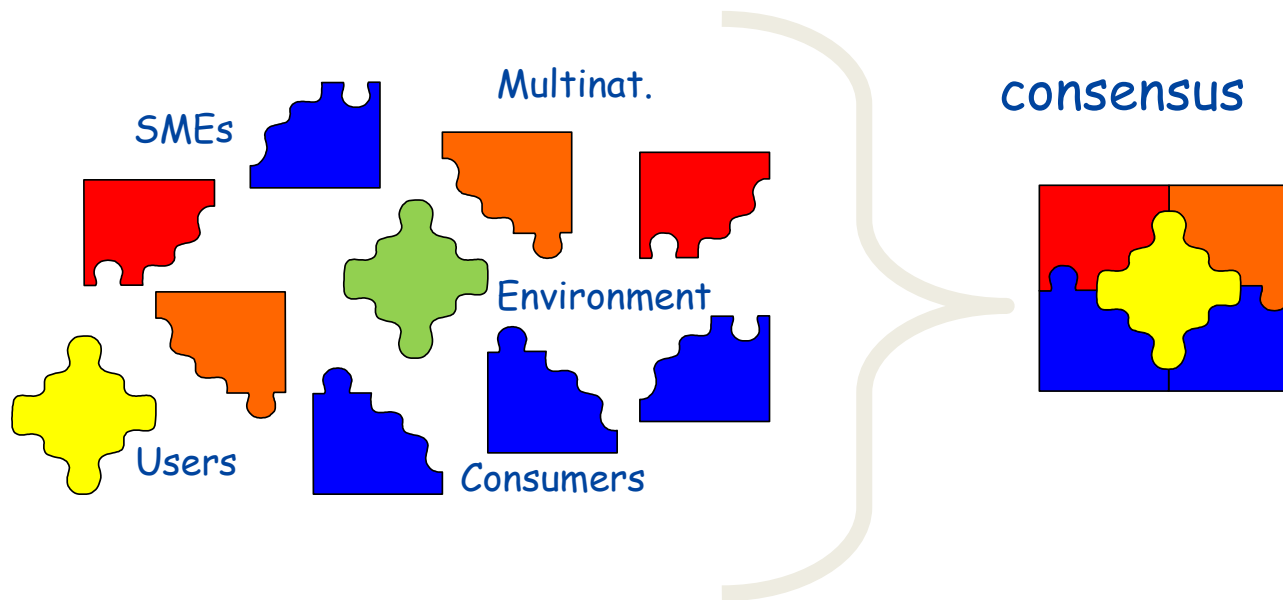
- CEN
 - 19 Affiliates
 - 7 Associates
- CENELEC
 - 12 Affiliates
 - 48 Cooperating Partners



How we develop standards...



.... by subject, bring together all interested parties to share:
what they need,
what they have
what to include in standards

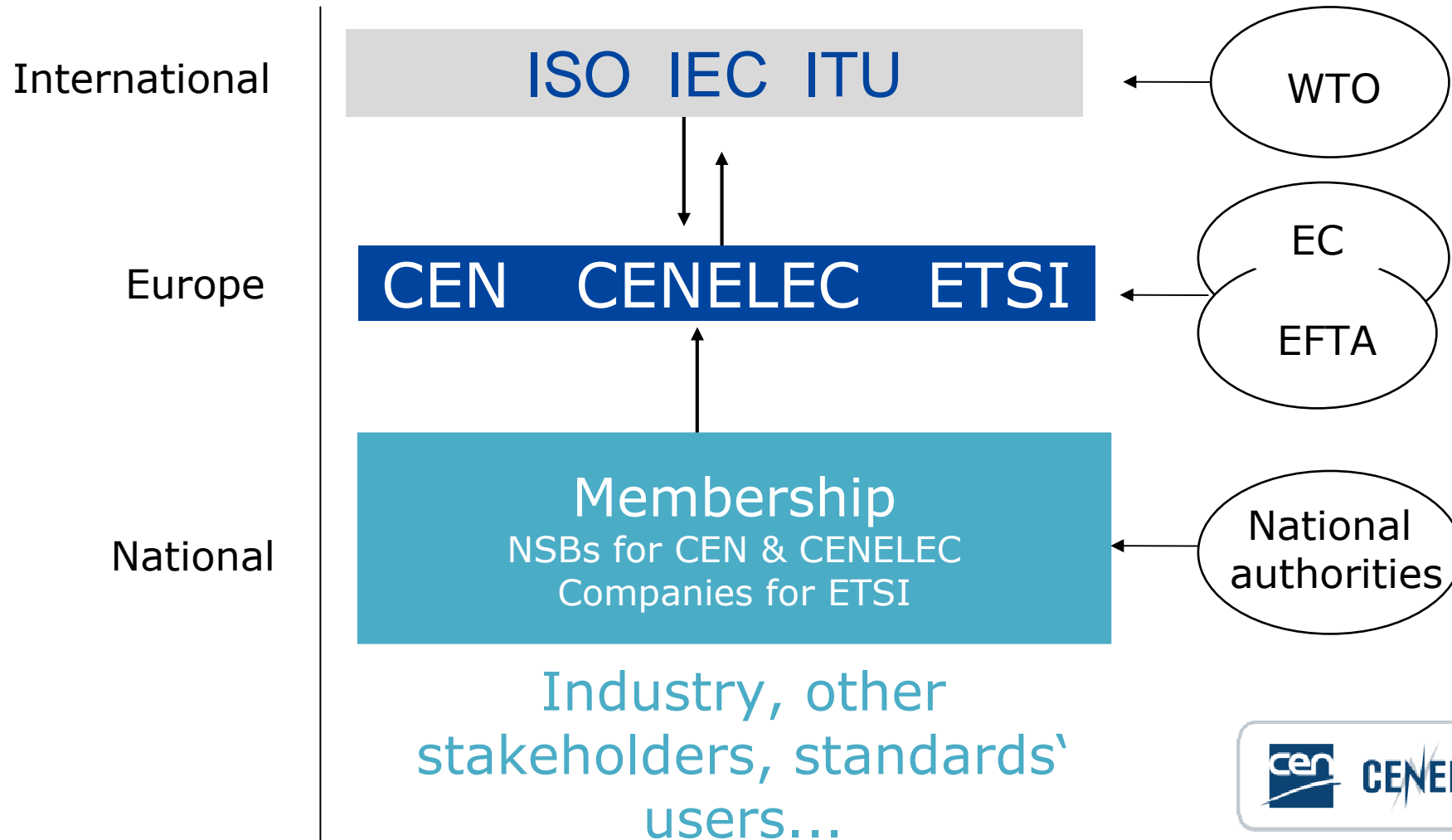


European standardisation – A unique model



- Shaping the single market
- Based on private sector's involvement
- Capitalising on its international dimension
- Supporting European competitiveness
- Disseminating innovation
- Integrating all stakeholders' interests
- Effective co-regulation tool

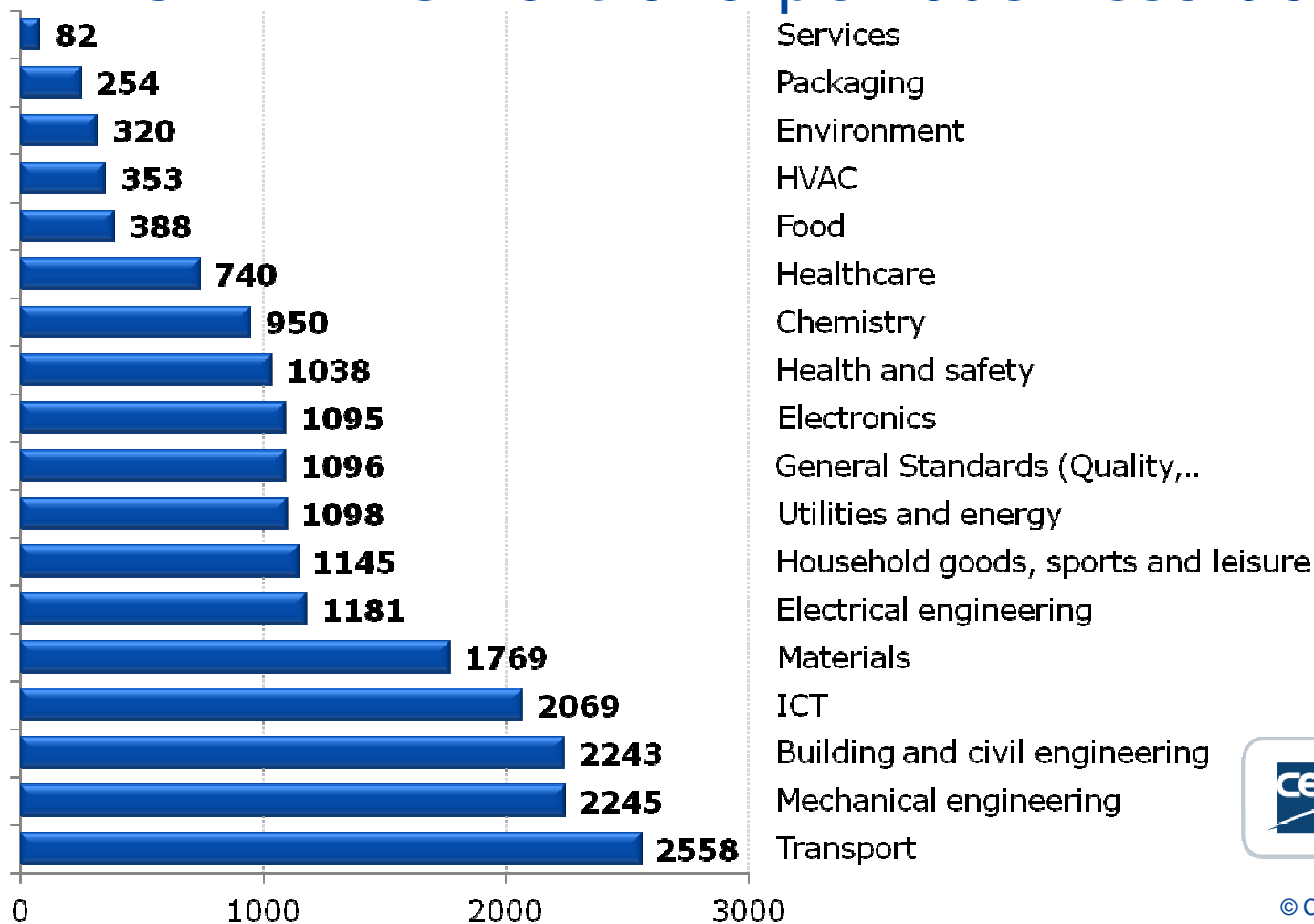
A coherent system



What we standardise



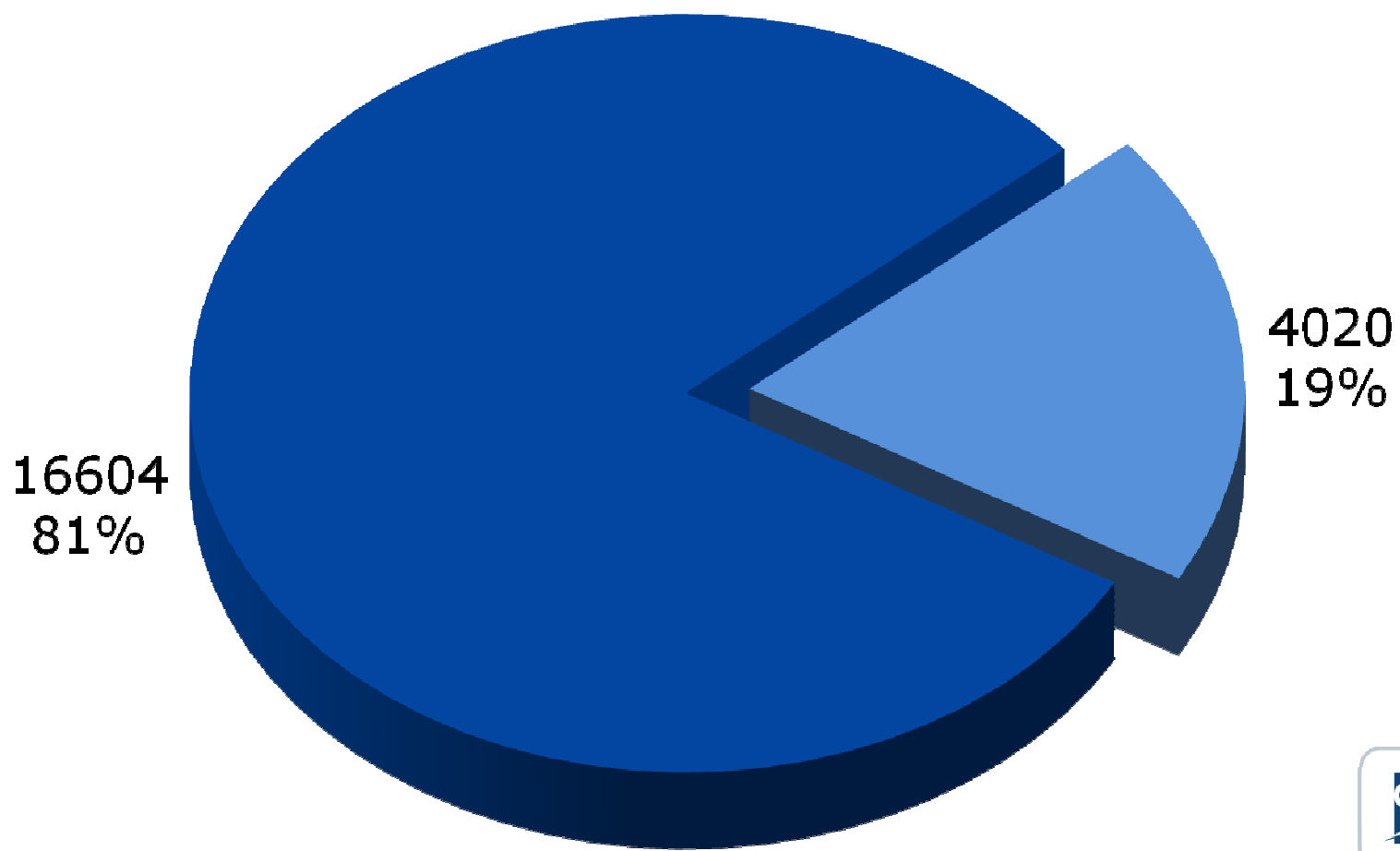
CEN-CENELEC Portfolio per business domain



Supporting European legislation



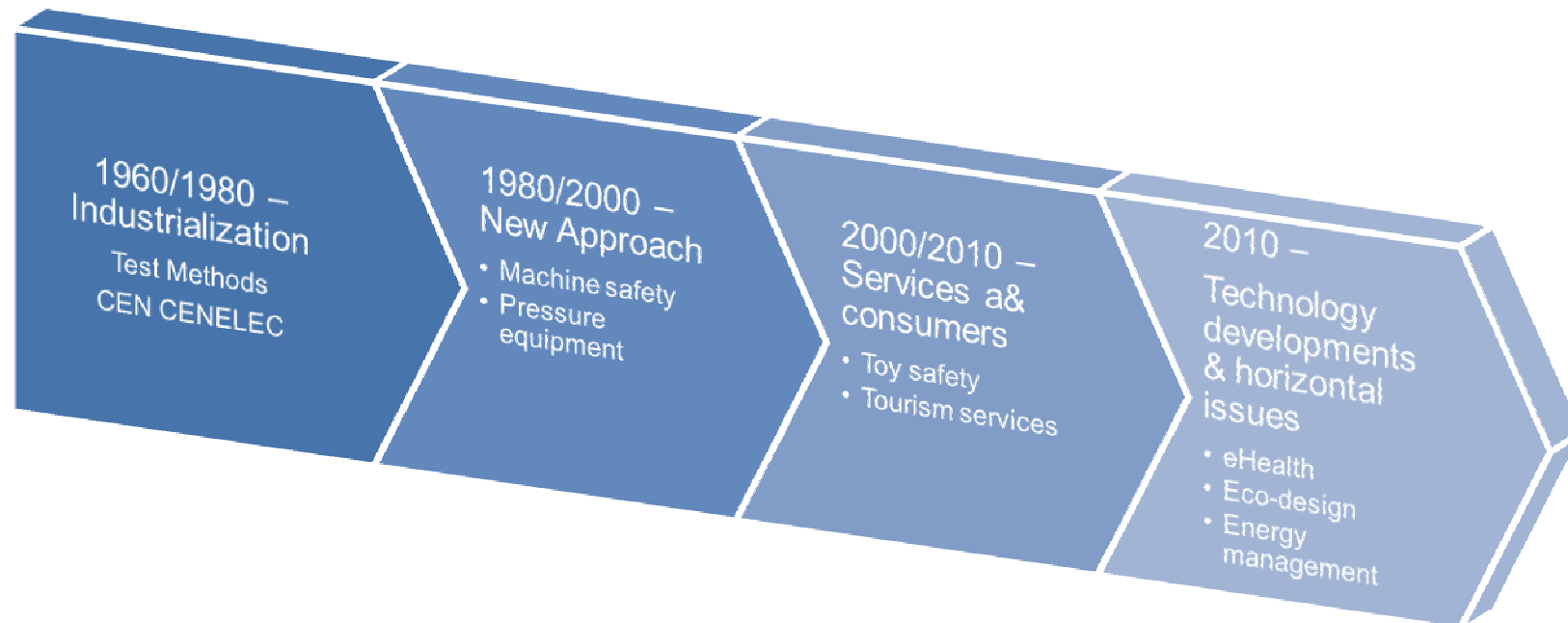
CEN-CENELEC Portfolio



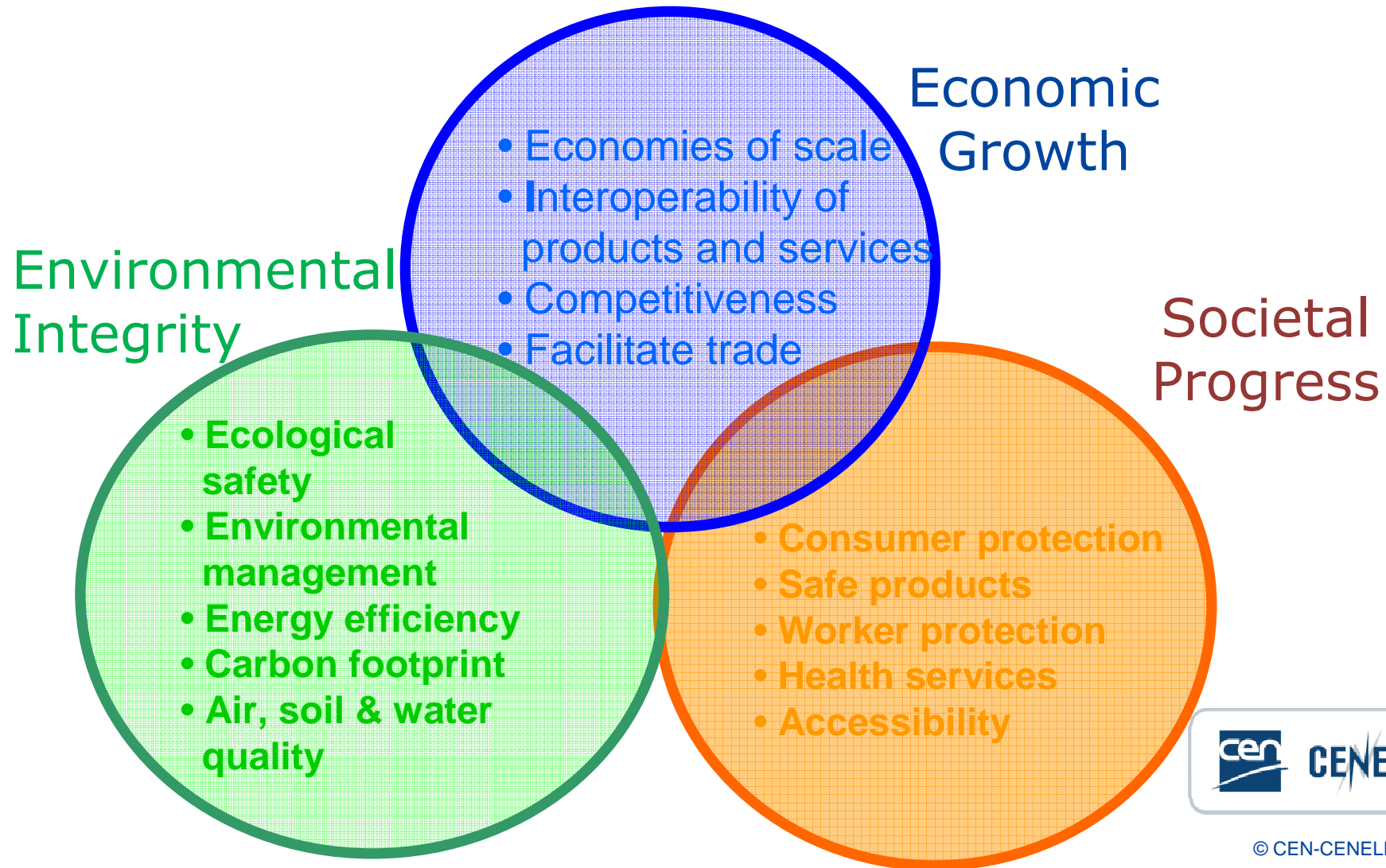
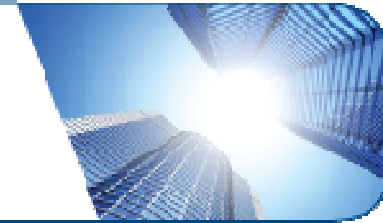
■ Not for citation in the OJEU ■ Cited or to be cited in the OJEU



European Standards -evolution



European Standardisation today



Standardisation for sustainable growth – 3 pillars



1. Environment

- Resources, consumption, efficiency

2. Societal needs

- Accessibility

3. Economic growth

- Innovative products & services

But the European Standardisation – System must evolve



Preparation for the challenges ahead....

- Supporting European competitiveness
- Protecting consumers
- Improving accessibility to products, services, ICT...
- Tackling climate change

Through

- Improved inclusivity
- Technology driven (EU industrial policy)
- Strengthened link research – standards
- Flexibility approach: consortia, speed, services
- International relevance

European Commission

- Europe 2020 – **smart, sustainable, inclusive** growth strategy
- Draft Regulation on European Standardisation



Environment – policy initiatives



- **Resource** Efficiency flagship initiative
- 2020 **Energy** efficiency plan (energy efficiency roadmap)
- **Low-carbon** economy roadmap 2050
- Sustainable **Consumption** and **Production** and Sustainable Industrial Policy (SCP/SIP) Action Plan
- White paper on the future of **transport**
- A new EU **biodiversity** strategy for 2020

Environment standardisation responses



- Reduce **consumption** and increase efficiency
- Reduce **waste** and **emissions**
- Change **consumption** and production patterns
- Improve production processes including **design** aspects
- Develop **clean** technologies as alternatives and substitutes
- Influence the **design** of products and processes
- Define **energy-use** levels, **waste** management procedures

Environment - Specific actions



Energy efficiency

- Reduce energy demand in buildings (insulation M/103, M/238, energy performance of buildings M/480)
- Transport (electric vehicles M468, batteries M/494)
- Supply (smart grid M/490)
- Renewable energies (wind, solar, biomass, geothermal, bio-methane M/475)
- Standby power consumption (M/439)
- Smart meters (M/441)
- Eco-design of televisions (M477)
- Energy audits (M/479)
- Eco-design of energy related products (mandate M/495)

Environment - Specific actions



Materials efficiency

- Recycling (packaging M/317)
- New products (bio-fuels M/429, bio-based products M/430 M492, bio-polymers and bio-lubricants, nanomaterials M461, bio-surfactants & bio-solvents M491)
- Solid recovered fuels (M/325)

Climate change

- Greenhouse gas emissions in energy intensive industries (M/431)
- Greenhouse gas emissions (M/478)

Accessibility - policy initiatives



Communication 2007/724 Single Market review

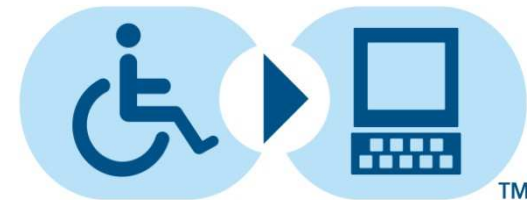
- Consumer Empowerment-> accessibility standards

Communication 2008/133 on standardization & innovation

- Public procurement: accessibility standards

Europe 2020 flagships

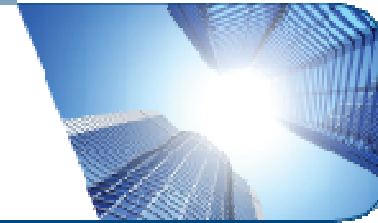
- Digital Agenda
 - ✓ web accessibility standards
- Innovation Union
 - ✓ innovation partnership active and healthy ageing
 - ✓ setting standards for new equipment for independent living



European Disability strategy 2010-2020



Accessibility - policy initiatives



Council Resolution 2008/C 75/01

- The ongoing work on the *development* of shared *European standards for accessibility* should be promoted and their application in public procurement encouraged”
- Access to mainstream goods, services and infrastructures should be improved as to empower persons with disabilities to act as consumers [...]

Opinion SOC/363 EESC People with disabilities: employment and accessibility by stages for people with disabilities in the EU

- *accessibility is crucial* if immediately applicable political and civil rights are to be exercised, and this must be reflected in specific accessibility plans, accompanied by *standards*
- Develop *accessibility standards to support legislation in public purchasing*

European Accessibility Act expected in 2012



Accessibility – standardisation responses



EC/EFTA mandates

M/273: Guidance for standards writers

- CEN/CENELEC Guide 6 = ISO/IEC Guide 71 Guidelines for standards developers to address the needs of older persons with disabilities



M/371 Accessible services - tourism, transport

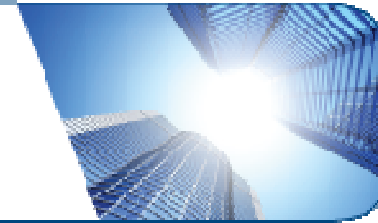
- to develop a standardization work programme concerning criteria for accessibility to tourist and transport services

M/392: Domestic appliances

- To include provisions in standards that would ensure that domestic appliances are usable by persons with disabilities and older persons



Accessibility – standardisation responses



W/376: Accessibility requirements for public procurement of products and services in ICT

- ▶ European Standard containing functional accessibility requirements for use in public procurement

W/420: Accessibility requirements for public procurement in built Environment

- ▶ Inventory and feasibility of European and international accessibility standards in the built environment
- ▶ Two European standards, online toolkit with guidance material

Mandate M/473: include Accessibility following DFA in standardization activities

- ▶ Review standards according to Design for All principles
- ▶ Develop of a new European Deliverable



Accessibility – standardisation responses



EN 81-70: 2003 Safety rules for the construction and installations of lifts - Particular applications for passenger and good passengers lifts - Part 70: Accessibility to lifts for persons including persons with disability

CEN/TS 81-82: 2008 Safety rules for the construction and installation of lifts - Existing lifts - Part 82: Improvement of the accessibility of existing lifts for persons including persons with disability

CWA 15554: 2006 Specifications for a Web Accessibility Conformity Assessment Scheme and a Web Accessibility Quality Mark

CWA 15778: 2008 Document Processing for Accessibility

EN ISO 9241-171: 2008 Ergonomics of human-system interaction - Part 171: Guidance on software accessibility (ISO 9241-171:2008)

CEN/TR 15913: 2009 Spectator facilities - Layout criteria for viewing area for spectators with special needs

In development: Railway applications - Design for PRM Use - Accessibility of People with Reduced Mobility to rolling stock - Part 1: Steps for Egress and Access

Innovation policy initiatives



Renewed recognition of the importance of standards for innovation

- Commission Communication to Council, Spring 2008
- Council Conclusions, Autumn 2008
- Innovation Union, October 2010
- Standardization package, June 2011

Response expected from standards to

- Loss of European jobs in the global economy
- Promote Lead Markets
- Support Green agenda
- Exploit results of research (EU funded FP7, Horizon 2020)

Innovation – standards response



R&D & Innovation projects and standards

- Standardization is an essential component for bringing innovative **products**, **services** and **processes** to the market (foresight studies)
- Raise awareness of standards benefits to research projects
- Identify useful standards activity early in project life
- Include funding for standards resources in research programmes
- (don't forget private sector research programmes)

Research integration



EU FP7 funds collaborative research projects covering 10 themes: **transport**, **KBBE** (Knowledge-Based Bio Economy), **NMP** (Nanosciences, nanotechnologies, materials & new production technologies), **ICT**...

Calls also launched to support 3 areas

- **Green Cars**
- **Factories of the Future** (new and sustainable technologies for the manufacturing industry)
- **Energy-Efficient Buildings**

Horizon 2020

The new EU 'Common Strategic Framework' **funding programme for research and innovation** will differ from the old Framework Programmes by merging the Research Framework Programme, the Innovation programme and the European Institute of Technology

Research integration - examples



AIRTV “Testing network for verification of air emissions abatement technologies”(FP6 - N° 036957) – **CWA 16060 published**

SCUTUM “SeCUring the EU GNSS adopTion in the dangeroUs Material transport” (FP7 - N° 247851) – **close to publication**

INTEG-RISK “Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related Risks” (FP7 – N°213345) - **standards work about to start**

SPIDIA “Standardisation and improvement of generic pre-analytical tools and procedures for in vitro diagnostics” (FP7 – N° 222916) – **working with a CEN technical committee**

Supporting *Europe 2020*



Smart growth

- New multi-technology challenges including **smart grids, smart meters** and **electro-mobility** - CEN/CENELEC/ETSI groups are making good progress

Sustainable growth

- standardization towards **new markets and new technologies** which foster sustainable growth in the global economy while securing European leadership in the development of globally accepted standards (Vienna and Dresden Agreements)
- effective dissemination of international standards for **new technologies** such as nanotechnology and biotechnology as European Standards for local stakeholders.

Inclusive growth

- European standards to address **market challenges** driven by the **needs of Europe's ageing population, changes in lifestyle and increased diversity**.



Supporting *Europe 2020*: standards responses



Innovation Union

- Integrating standards/research (***Helpdesk research@cencenelec.eu***)

Youth on the move

- Education about standardisation (***curriculum***)

A digital agenda for Europe

- ehealth, ebusiness, electronic invoicing...(***eBusiness***)

Resource efficient Europe

- Energy efficiency, renewable, carbon footprint...(***Helpdesk CEN.ehd@cencenelec.eu***)

An industrial policy for a globalised era

- Facilitate SMEs' access to the global market (***Helpdesk sme@cencenelec.eu***)

European platform against poverty to ensure social and territorial cohesion

- Standards including accessibility requirements (***SAGA***)



EC proposal for Regulation on standardisation



A strategic vision for European standards: ***to enhance and accelerate the sustainable growth of the European economy by 2020 COM(2011) 311 final***

5 major fields of action

- Industrial policy & innovation (Foresight studies, EC work programme)
- Inclusive standard-setting
- Standards on services (*strategic group*)
- ICT Fora & Consortia standards (*Consortium bridge*)
- European standards in the global market

Thank you



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