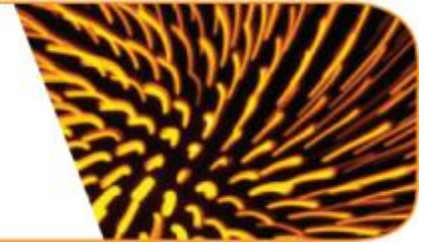


Standardization, Research and Innovation

Andreea GULACSI

Unit Manager – Research Integration – CEN-CENELEC Management Centre

Ambitions 2020



- Be the preferred standardization partners of business and industry to get first-mover advantage in global markets (**Global influence**)
- Support the strengthening and diversification of Europe's industrial base (**Regional relevance**)
- Provide proactive mechanism for identification of new market trends and creation of new solutions ...(**Wider recognition**)
- Adapt to meet evolving needs and technological opportunities ...and facilitate the uptake of new technologies (**Network of excellence**)
- Support the deployment of innovation and encourage market acceptance of innovative solutions (**Innovation and growth**)
- Cooperate with the research and development community, and timely inclusion of research results in standardization activities will become routine (**Innovation and growth**)
- Be natural channel for innovators to bring ideas for development of standards (**Innovation and growth**)
- Encourage the renewal of expert base (**Sustainable System**)

Who we are



The European Committee for Standardization

The European Committee for Electrotechnical Standardization

The European Telecommunications Standards Institute

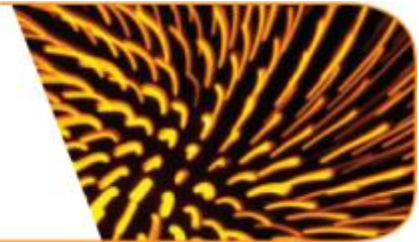
**= the European Standards Organisations
("ESOs")**

+ 34 full members

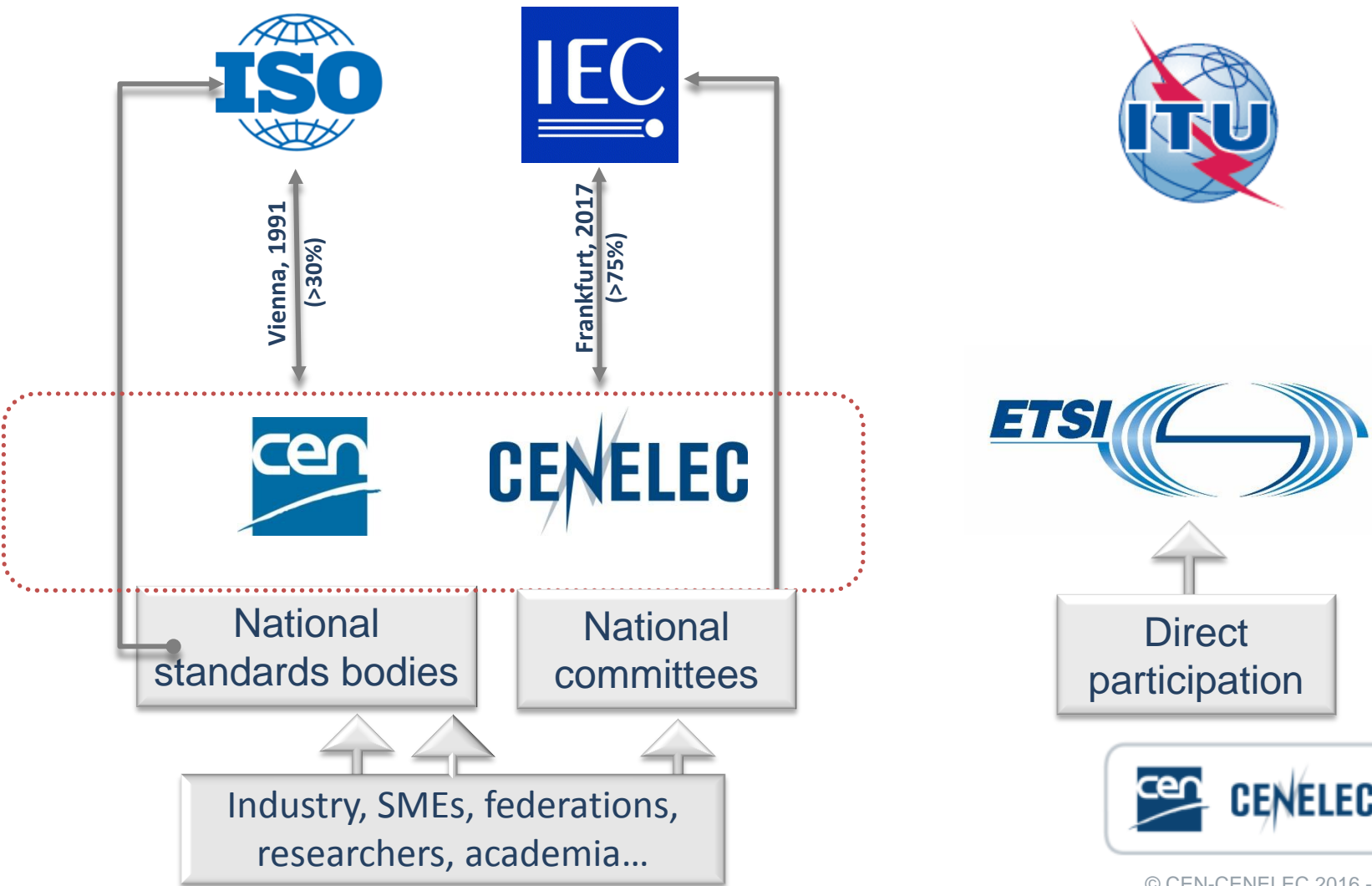
+ international standards bodies (ISO, IEC, ITU-T)

Officially recognized by EU
[Regulation 1025/2012](#)
(AUWP from DG GROW)

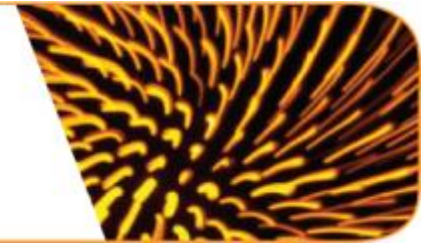




The ESOs and the other formal bodies



CEN and CENELEC activities



Energy



ICT



Machinery



Healthcare



Materials



Pressure equipment



Transport and packaging

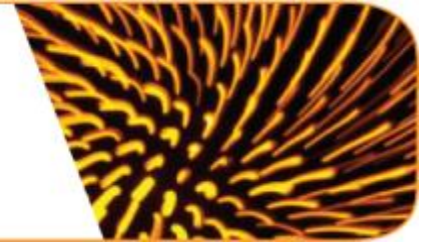


Measuring instruments



Research and Innovation

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

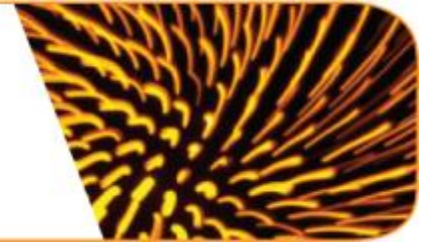
CENELEC

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

Cross-sectoral issues

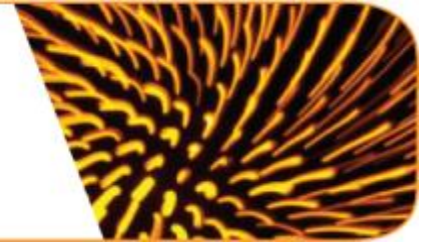
Accessibility | Environmental Protection | Energy-efficiency (Eco-Design)

Policy Context



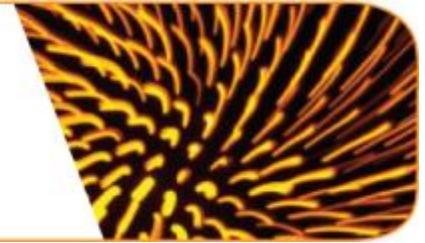
- The Innovation Union, 2010: “Standards play an important role for innovation”
- The Standardization Regulation, 1025/2012: “Standards can help to bridge the gap between research and marketable products or services”
- Horizon 2020 “Contribute to European competitiveness through support to the standardisation process and standards”
- Single Market Communication 550/2015 “Standards are crucial for innovation and progress in the Single Market: they increase safety, interoperability and competition and help remove trade barriers.”

Innovation needs standardization



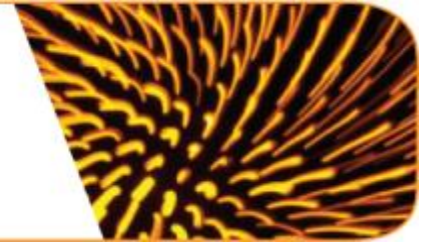
- Europe needs cutting edge research and innovation for competitiveness, growth and jobs.
- Standards are essential for market uptake of innovative products and services and provide a platform for further innovation.
- In addition to industry-led R&D, European programmes for research & innovation give political and financial support to strengthen industry's competitiveness and capacity to innovate:
 - FP7 (2007-2013) EUR 55 billion funded 25000 projects
 - Horizon 2020 (2014-2020) EUR 80 billion funded >6000 projects so far

What do we do?



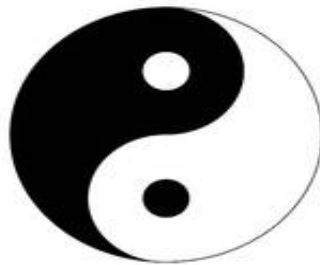
- We **provide** a platform for stakeholders in a specific area to come together
- We **facilitate** consensus at European level
- We help **ensure** principles of transparency, openness, coherence, consensus
- We **foster** European unanimity
- We **support** and **enable** the deployment of innovation

What are standards?



Standards

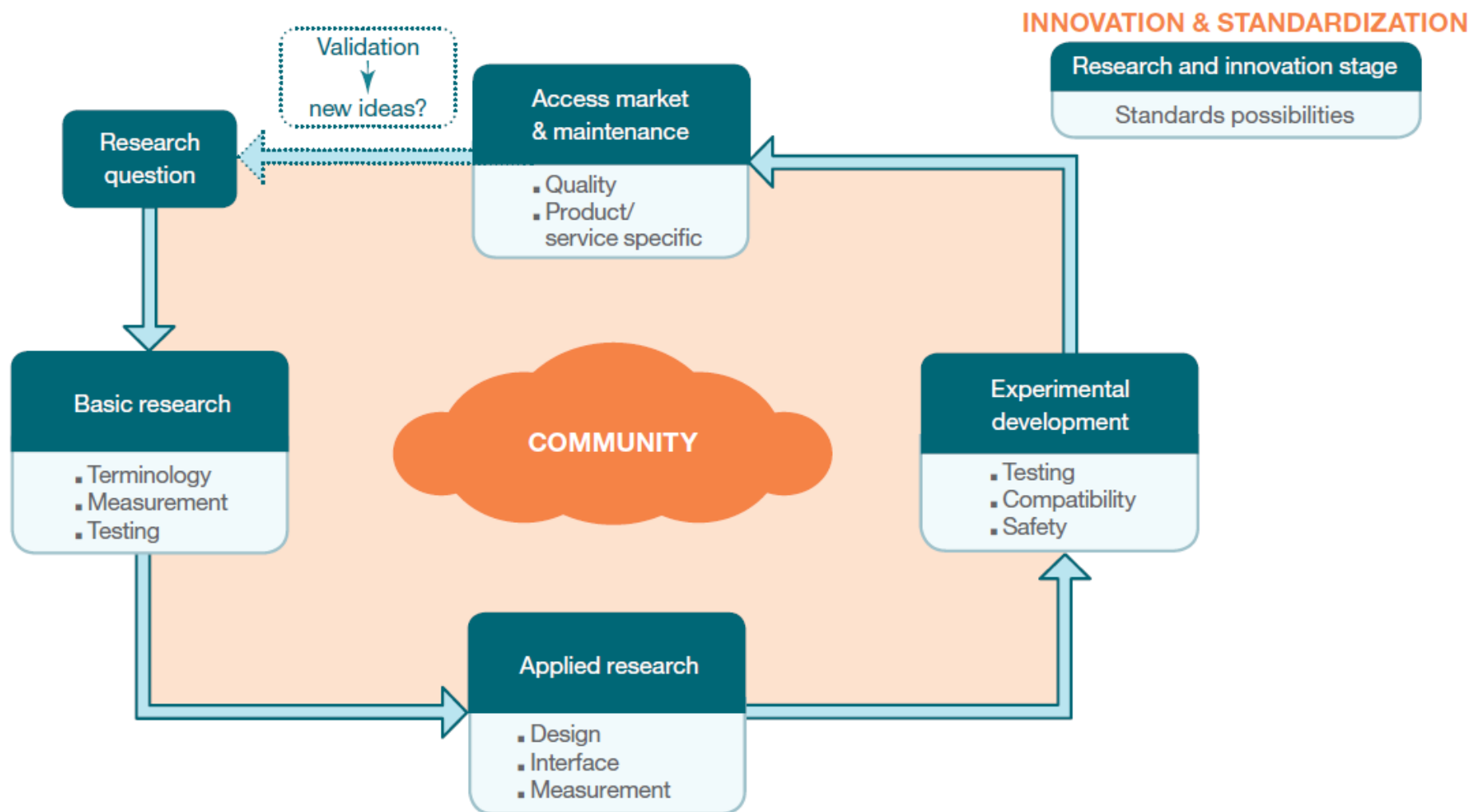
1. Voluntary
2. Consensual
3. Developed by independent organizations
4. Revised every 5 years
5. Provide specifications and test methods (interoperability, safety, quality, etc.)



Legislation

1. Mandatory
2. Imposed by Law
3. Established by public authorities
4. Revised when legislators decide
5. Sets requirements to protect public interests

Innovation – what role for standards?



Standards in Horizon 2020 calls



Screening of the calls for proposals (2016/2017) identified standardization in 37% of [LEIT](#) and in 24% [SC](#) calls as follows:

- Mapping of relevant standards
- Standardization gap analysis
- Development of new standards
- Proposal for a standardization plan (may include international cooperation)
- Consider standardization aspects when relevant



Even if not specifically mentioned in the call **standards can be identified** by project proposers.

Standardization bodies can be **included in the consortium**.

This should be addressed at proposal stage.

Horizon 2020 and standardization



In COM/2011/0808 final “Horizon 2020 - The Framework Programme for Research and Innovation”:


“Stronger support will be given to the market take-up of innovation, including by the public sector. This will include more proof-of-concept, piloting and demonstration. It will involve a better use of the potential of research infrastructures, **as well as setting technical standards**, pre-commercial procurement and strengthened loan and equity financing.”

On Participants [Portal](#):

Other Help Services

You can contact specific helpdesks for **ethical issues**, **intellectual property rights (IPR)** and **standardisation** or get advice and networking opportunities from the IGLO group of R&D liaison offices.


For any IT-related problems on the Participant Portal, please contact our [IT Helpdesk](#).



Ethics Helpdesk

European IPR Helpdesk

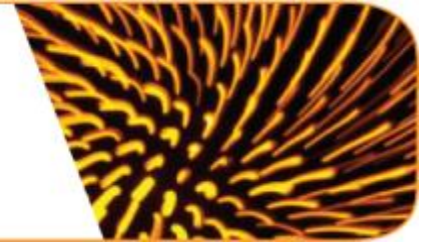
European Committee for Standardisation (CEN-CENELEC)



IGLO - Informal Group of RTD Liaison Offices

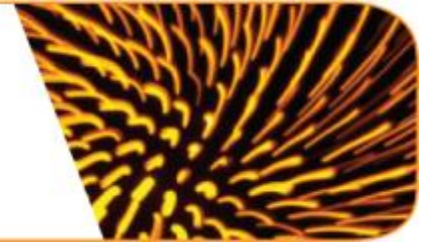
National R&D and Innovation Information

Influencing Standardization



- Feed into a Technical Committee (TC)
- Initiate new standardization work : ENs, TSs, CWAs etc
 - European (CEN or CENELEC)
 - International (ISO or IEC)
- Develop a roadmap / plan for further standardization work
- Propose a STAIR-Platform
- ***Launch a Sector Forum (if subject relevant to several TCs)***
- Project Liaison with a TC

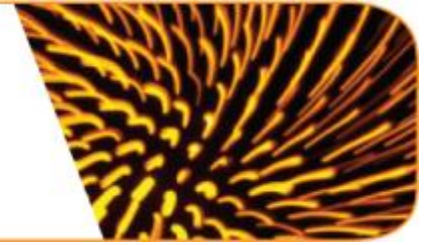
Why consider standards for innovation?



Tap into the potential opportunities

- Transfer of **innovative** know-how to the market
- **Dissemination** of research results
- Opportunity to **network**
- Enhancement of the **economic value** of research project
- Helping **access** to public procurement markets
- **Comparability & interoperability** : measurements, quality indicators, test methods etc
- **Reassurance** for European consumers
- Faster and easier access to **markets**

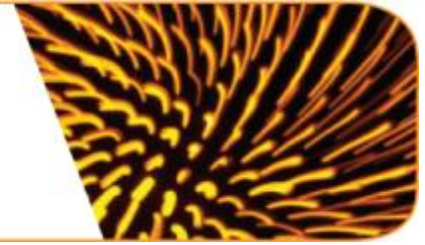
Summary slide



- Consider if you **need** standards for your new or ongoing project
- Include a **Standardization Organization** in your consortium as a project partner or as a subcontractor
- A **work package** leading to a standardization deliverable
- A **project liaison** with a TC (only @ European level)
- Partners to **join the TC's** national mirror group
- **Make contact** with a NSB/NC at earliest possible stage
- Project **Advisory Board**: contact TC chair, TC secretary or a TC experts



Support in CEN-CENELEC



- Research Integration Unit in CCMC

Research Helpdesk

Research@cencenelec.eu

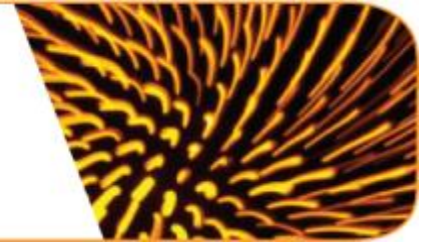
- Dedicated national contacts for Research, Development and Innovation (**RDI-COR**) in our Members

CEN-CENELEC tools

- ✓ [Horizon2020](#) guide to project proposers
- ✓ [Factsheet](#) on IPR & Standards
- ✓ Guidance [document](#) for Members on how to link with European research projects
- ✓ [Leaflet](#) aimed at the National Contact Points (NCP)
- ✓ [Brochure](#) on the role standards play in support to research and innovation
- ✓ **20 case studies** highlighting successful research projects which have contributed to standardization
- ✓ 4 training videos ([How standards support innovation](#); [How standards support Horizon2020](#); [How to develop an internal strategy](#); [How to communicate with innovators](#))



Thank you!



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[@Standards4RDI](#)