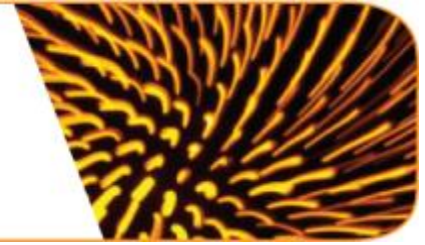


# Standardization, Research and Innovation

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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

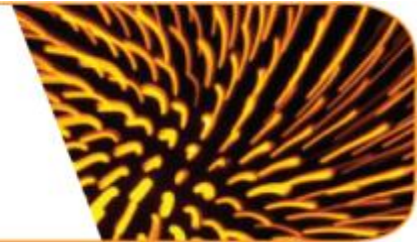
**= the European Standards Organisations  
("ESOs")**

+ 34 full members

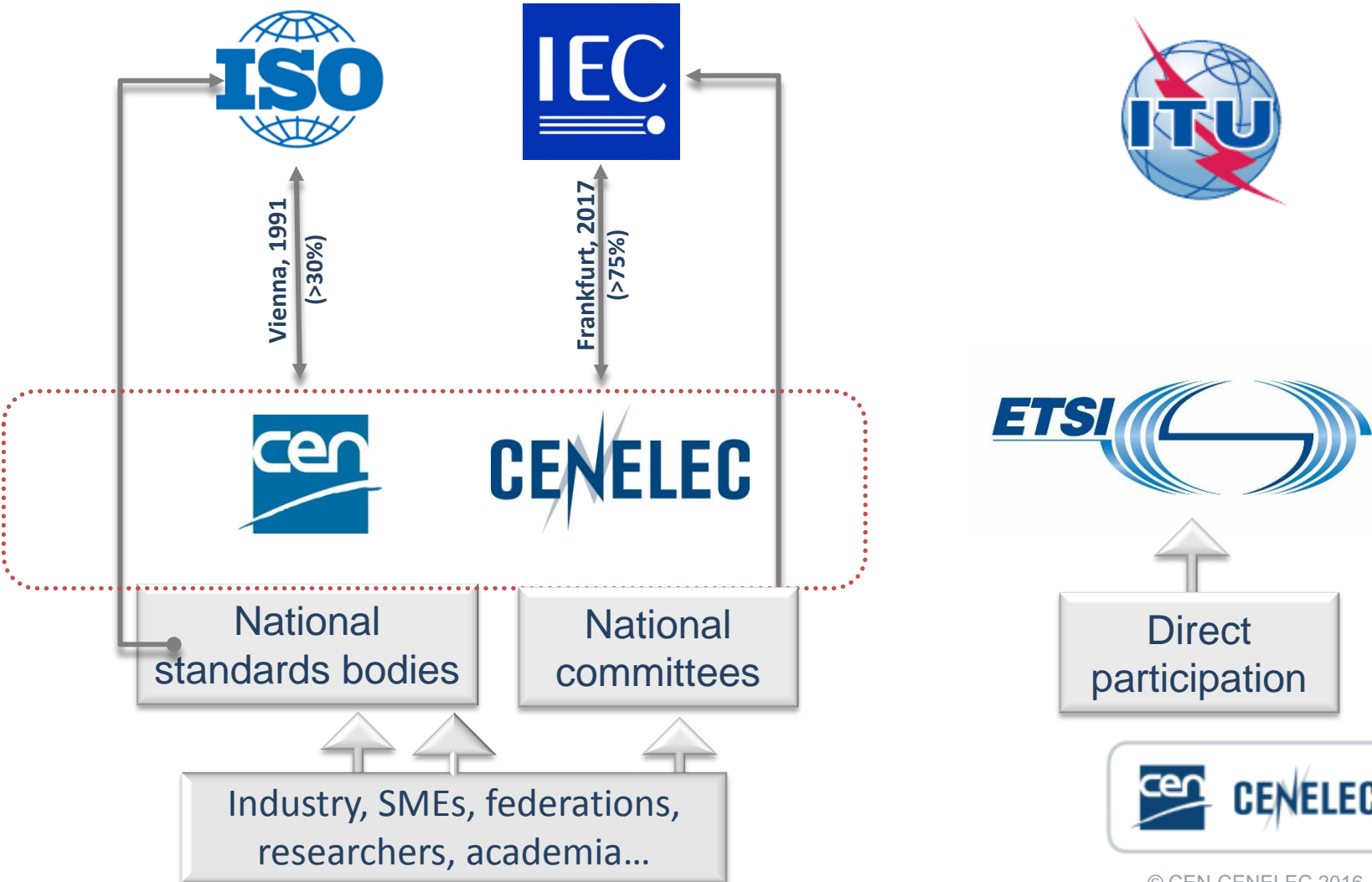
+ international standards bodies (ISO, IEC, ITU-T)

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

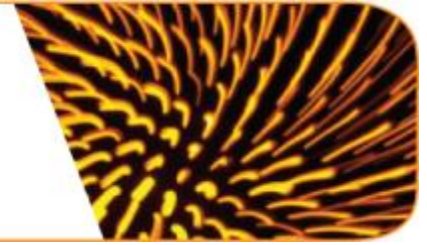




# The ESOs and the other formal bodies



# CEN and CENELEC activities



Energy



ICT



Machinery



Healthcare



Materials



Pressure equipment



Transport and packaging

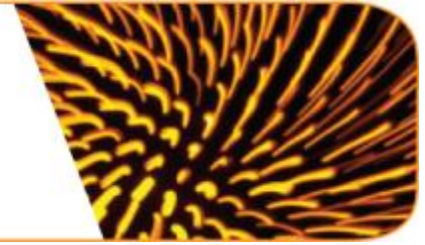


Measuring instruments



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

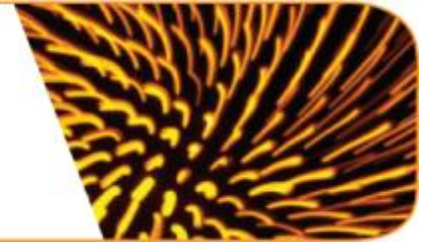
## CENELEC

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

## Cross-sectoral issues

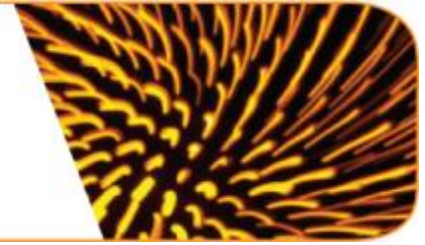
**Accessibility** | Environmental Protection | Energy-efficiency (Eco-Design)

# 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.”

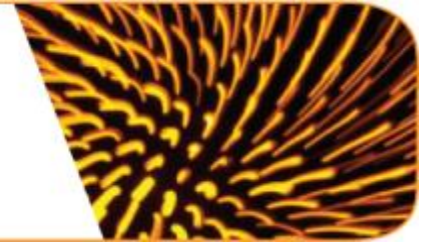
# Innovation needs standardization



- 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

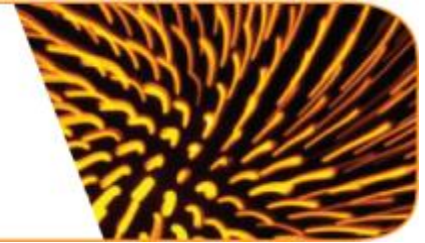


# What do we do?



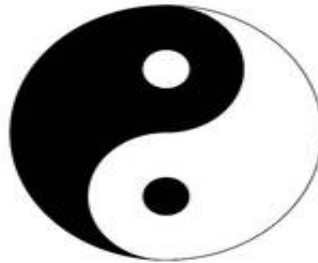
- We **provide** a platform for stakeholders in a specific area to come together
- We **facilitate** consensus at European level
- We help **ensure** principles of transparency, openness, coherence, consensus
- We **foster** European unanimity
- We **support** and **enable** the deployment of innovation

# What are standards?



## **Standards**

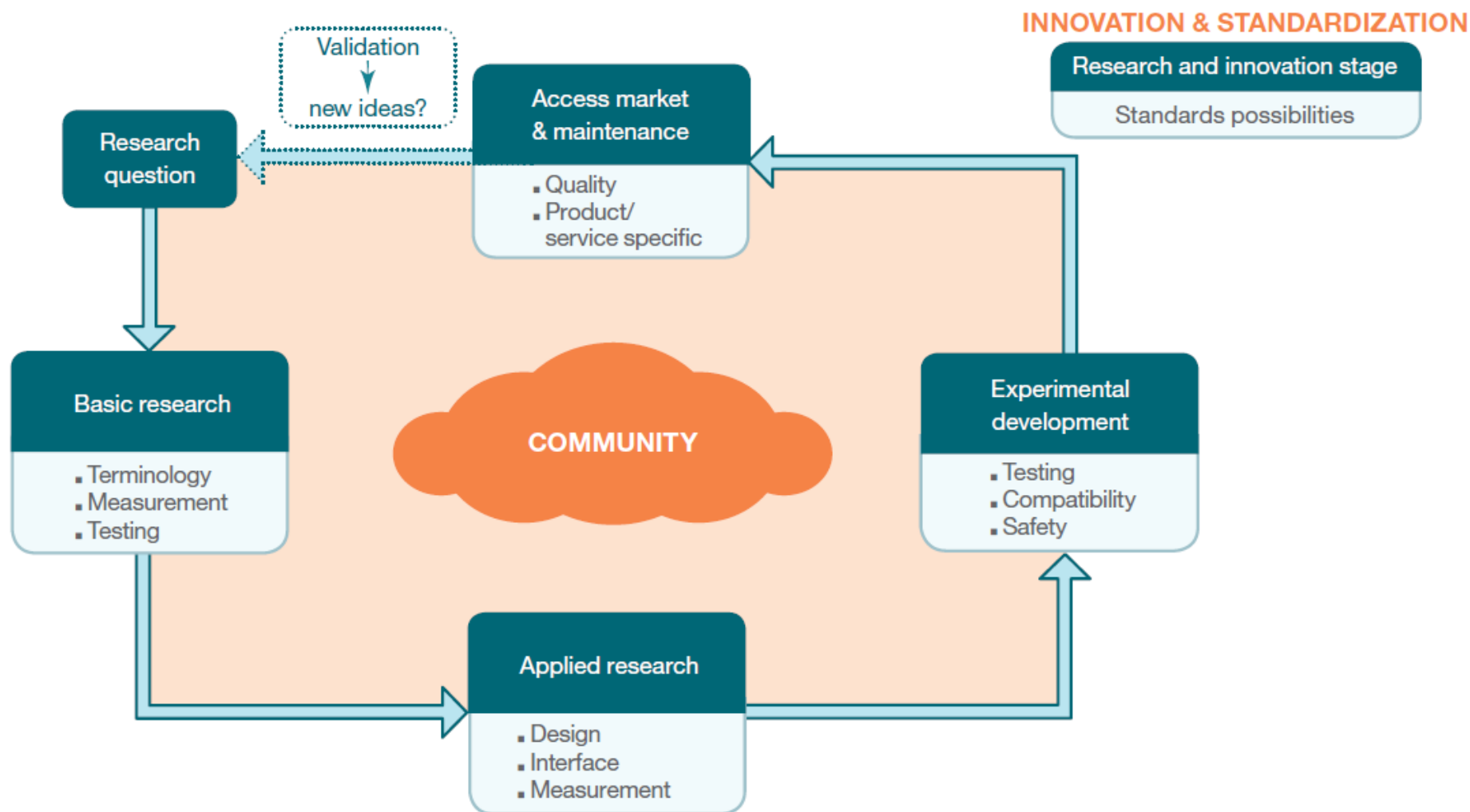
1. Voluntary
2. Consensual
3. Developed by independent organizations
4. Revised every 5 years
5. Provide specifications and test methods (interoperability, safety, quality, etc.)



## **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

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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

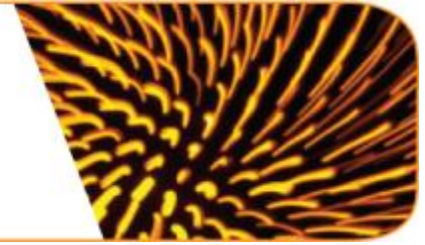
European Committee for Standardisation (CEN-CENELEC)



IGLO - Informal Group of RTD Liaison Offices

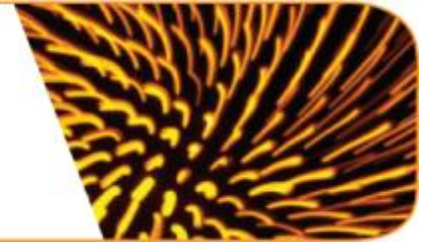
National R&D and Innovation Information

# 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**

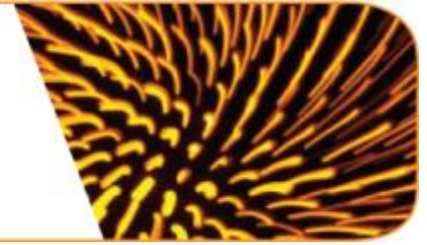
# Summary slide

- 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](mailto:Research@cencenelec.eu)**

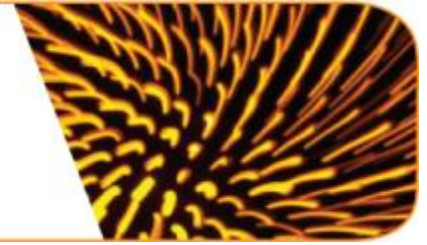
- Dedicated national contacts for Research, Development and Innovation (**RDI-COR**) in our Members

# 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](#)