CEN and CENELEC Technical Body Officers Event

Bridging Research, Innovation & Standardization

Agenda

▶ **Our approach towards R&I**

▶ **What are research projects?**

▶ **How can R+I projects contribute to standardization?**
A. Identification of needs and objectives
B. Contribution to modifications or new standards
    B1. Technical Committees: individually or as project
    B2. CEN-CENELEC Workshops Agreements

▶ **Identifying new topics for standardization**

▶ **Building capacity and connections**

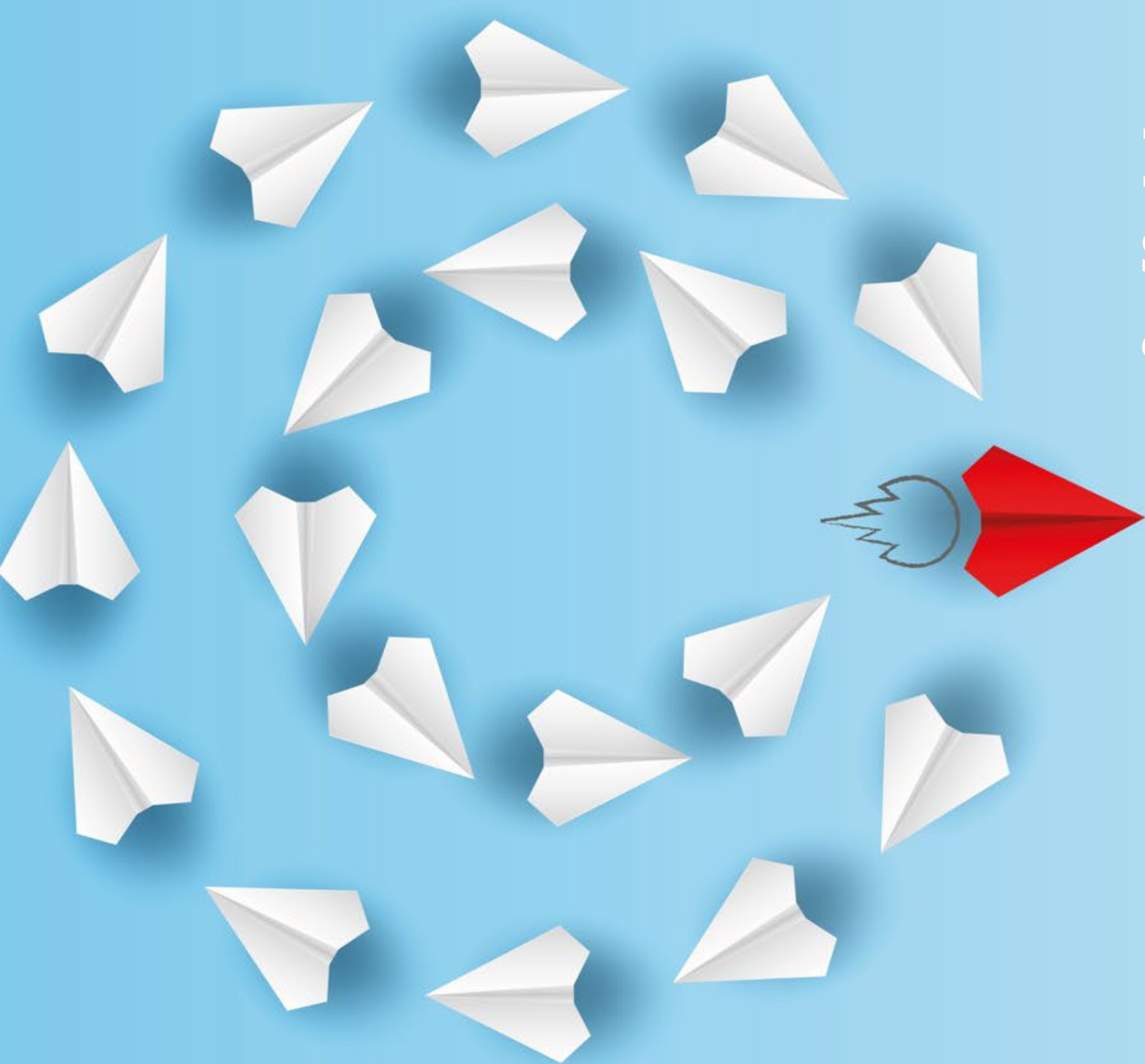▶ **What can NSBs and NCs do?**
    ▶ Reference documents

Our approach towards R&I

▶ **Integrating standardization and R&I** – bringing standardization closer to researchers, innovators, and R&I activities, seizing opportunities for standardization to bridge the gap between research outcomes and the market

▶ **Identifying new topics for standardization** – using and reinforcing channels and sources to identify new standardization areas for CEN and CENELEC

▶ **Building capacity and connections** – ensuring the CEN and the CENELEC system, Members and internal process are equipped to engage with research and innovation

CEN and CENELEC
Technical Body
Officers Event

Integrating standardization and research

What are research projects?
What is Horizon Europe?

It is the EU's main funding program for research and innovation (R&I)

€ 93.5bn for the period 2021-27

IMPLEMENTING HORIZON EUROPE THROUGH THE STRATEGIC PLAN

HORIZON EUROPE

Strategic Plan 2021 – 2024

Strategic Plan Analysis

Strategic Plan 2025 – 2027

Work Programme 2021 - 2022

Work Programme 2023 - 2024

Work Programme

PROJECT   PROJECT   PROJECT

PROJECT   PROJECT   PROJECT

3 Strategic orientations for R&I investments 2025-2027

- Green transition
- Digital transition
- A more resilient, competitive, inclusive and democratic Europe

Why HE matters in Standardization?

The 2025 Horizon Europe Work Programme pays significant attention to **standardization** as a key route for **knowledge valorization** as well as for enhancing **Europe's competitiveness**.

Our analysis shows that around **25% of topics are relevant to standardization** in the 2025 HE WP.

Regular screening by CCMC: [Projects calls with reference to standardization - CEN-CENELEC](#)

Cluster	Number of calls with reference to standardization
Cluster 1: Health	8
Cluster 2: Culture, Creativity and Inclusive Society	4
Cluster 3: Civil Security for Society	6
Cluster 4: Digital, Industry and Space	42
Cluster 5: Climate, Energy and Transport	42
Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment	18

Why HE matters in Standardization?

▶ *Analyse and report on the potential for standardization... And on possible connection with ongoing standardization efforts*

▶ *Support the identification and scaling up of activities at EU level in fields of ... Standard*

▶ *Contribute to* ... *s where relevant*

▶ *Identify resea* ... *nprove new standards*

▶ *Provide recom* ... *as well as input for standardizatio*

▶ Include partners with direct experience of participating in relevant standards committees

Horizon Europe funds standardization activities and serves as a window for new experts to get engaged

Example: Specific standardization roadmap

▶ Main objective: to develop a **standardization roadmap** on **swappable battery systems** for lightweight category electric vehicles

https://stan4swap.standards.eu/

A little bit about
the Stan4SWAP Standardization Roadmap
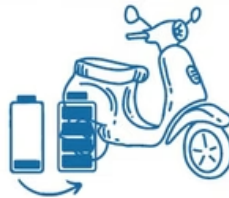for battery swapping systems for light category vehicles

What is the Stan4SWAP Standardization Roadmap?
It is an **overview** of the **state of standardization** in the area of battery swapping systems for light category electric vehicles. It proposes **concrete actions and recommendations** for industry, policymakers and academia to close existing standardization gaps.

What is the goal of the Stan4SWAP Standardization Roadmap?
To support battery swapping system **interoperability** and **compatibility** among different electric L-cat vehicles, **opening the market** to any supplier complying with the standards and allowing users and citizens to swap their batteries regardless of the brand.

Current needs in the key areas for battery swapping

How can R+I projects contribute?

ℹ️ CEN-CENELEC Guide 23 'Research Consortium Bridge- Addressing Research and Innovation in European Standardization activities and deliverables'

A. Identification of the relevant standardization landscape, applicable standards and standardization roadmaps

B. Contribution to **new or modified standards** from the results of the project

Via **Technical Committee** (TC)

B.1 Contribution to **ongoing** work
    B.1.1 Individually
    B.1.2 Project liaison

B.2 Request for **modifying** a standard or to develop **new** standard(s)

Via **Workshop** (CEN/WS)

B.3 Development of **new** CWA (fast standard)

How can R+I projects contribute?

B.1.1 Contribution to ongoing work on standardization **individually**

The follow up through the **joining and participation** of one or more **R+I project partners** in standardization committees (TC) or working groups (WG).

- Standardization is an open activity. All interested parties may participate in an international/European TC through National Mirror Committees.

- Advisable if a standard under development is identified as crucial for the R+I project and there is interest in a **close follow up** or in **contributing** to the content of the standard.

What is needed from partners?

- Availability to study and comment draft standards by correspondence
- Availability to participate in TCs/WGs meetings

When is this needed?

- When new documents are released by a TC/WG
- When a meeting is scheduled

How can R+I projects contribute?

B.1.2 Contribution to ongoing work on standardization **via Project Liaison**

The establishment of a Project Liaison with a Technical Committee. Under this figure, the consortium of a **R+I project can participate as an entity** in the TC works, without voting rights. This implies an economic cost and is advisable when the TC is developing a related standard during the life of the project.

What is needed from partners?

- Availability to study and comment draft standards by correspondence
- Availability to participate in TCs meetings

When is this needed?

- When new documents are released by a TC
- When a meeting is scheduled

ℹ CEN-CENELEC Guide 25 'The concept of Cooperation with European Organizations and other stakeholders'

How can R+I projects contribute?

B.2 Request for **modifying** a standard or to develop **new** standard(s)

Elaboration of specific standardization **proposals** based on identified **standardization gaps** in standards used by partners or based in **standardization needs** of partners. The outcomes can be used by TCs, e.g. the improvement of existing standards or development of new standards.

What is needed from partners?

- Identification of gaps in existing standards, e.g., EN, TS, TR, being used in a R+I project

- Identification of needed standards for the future exploitation of an R+I project

When is this needed?

- All along R+I project development

How can R+I projects contribute?

B.3 Development of **new** CWA (fast *standard*)

Development of CEN-CENELEC Workshop Agreements (CWA) by consortium partners, when for example some R+I project result is identified as standardizable. CWAs are the most appropriate and feasible deliverable to be developed during the project life.

What is needed from partners?

- Availability to attend on site and virtual workshop meetings and follow formal drafting rules
- Availability to study and comment eventual draft standardization deliverables

When is this needed?

- When a CEN-CENELEC Workshop meeting is scheduled
- When requested by the Workshop Secretariat (NSB or NC)
- When a draft CWA is circulated for commenting or approval

ℹ CEN-CENELEC Guide 29 'CEN and/or CENELEC Workshop Agreements – A rapid way to standardization'

Why develop a CEN-CENELEC Workshop Agreement (CWA)?

Workshops are a low-risk, high-value bridge:

▶ Meet an immediate need not covered by any Technical committee

▶ Faster, flexible, open participation -> can be developed during the lifetime of a research project

▶ Ideal for emerging topics, research results needing visibility

▶ Building consensus before formal TC work

Workshops can:

▶ Prepare future TC work

▶ Test stakeholder interest

▶ Avoid overloading existing committees

They do not compete with TCs - they feed them!

Some examples

- CWA 18291:2025 - TRICK - Guidelines on data collection from Textile supply chains for the Digital Product Passport

- CWA 18038:2023 - Methodology for managing maintenance strategy and remanufacturing projects of large industrial equipment

- CWA 18125:2024 - Trusted Data Transaction

- CWA 18186:2025 - Guidelines to create a Digital Product Passport - the EU project CircThread experience

- CWA 18303:2025 - Robotic construction system for shotcrete digitization and automation through advanced perception, cognition, mobility and additive manufacturing skills

- CWA 17819:2021 - Guidelines for the assessment of resilience of transport infrastructure to potentially disruptive events

CWA download area - CEN-CENELEC

Reference documents

▶ **Code of Practice on standardization** ([here](#))

▶ Recommendations on the use of standardization in R+I activities and projects

▶ **CEN-CENELEC Guides**:

▶ Guide 23 'Research Consortium Bridge- Addressing Research and Innovation in European Standardization activities and deliverables' ([here](#))

▶ Guide 25 'The concept of Partnership with European Organizations and other stakeholders' ([here](#))

▶ Guide 29 'CEN and/or CENELEC Workshop Agreements – A rapid way to standardization' ([here](#))
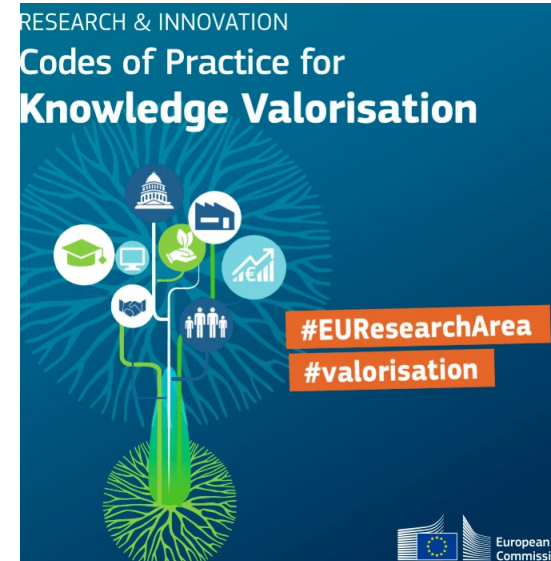
Identifying new topics for standardization

CEN-CENELEC's cooperation with the European research community

- ► EU valorization policy (DG RTD)

- ► Putting Science into Standards (JRC)

- ► European Partnership on Metrology (Euramet)

- ► EU Multi-Stakeholder Platform on ICT Standardisation, Task Force R&I (DG CNT)

- ► Feeding pre-normative needs for Horizon Europe

Putting Science Into Standards
A best practice

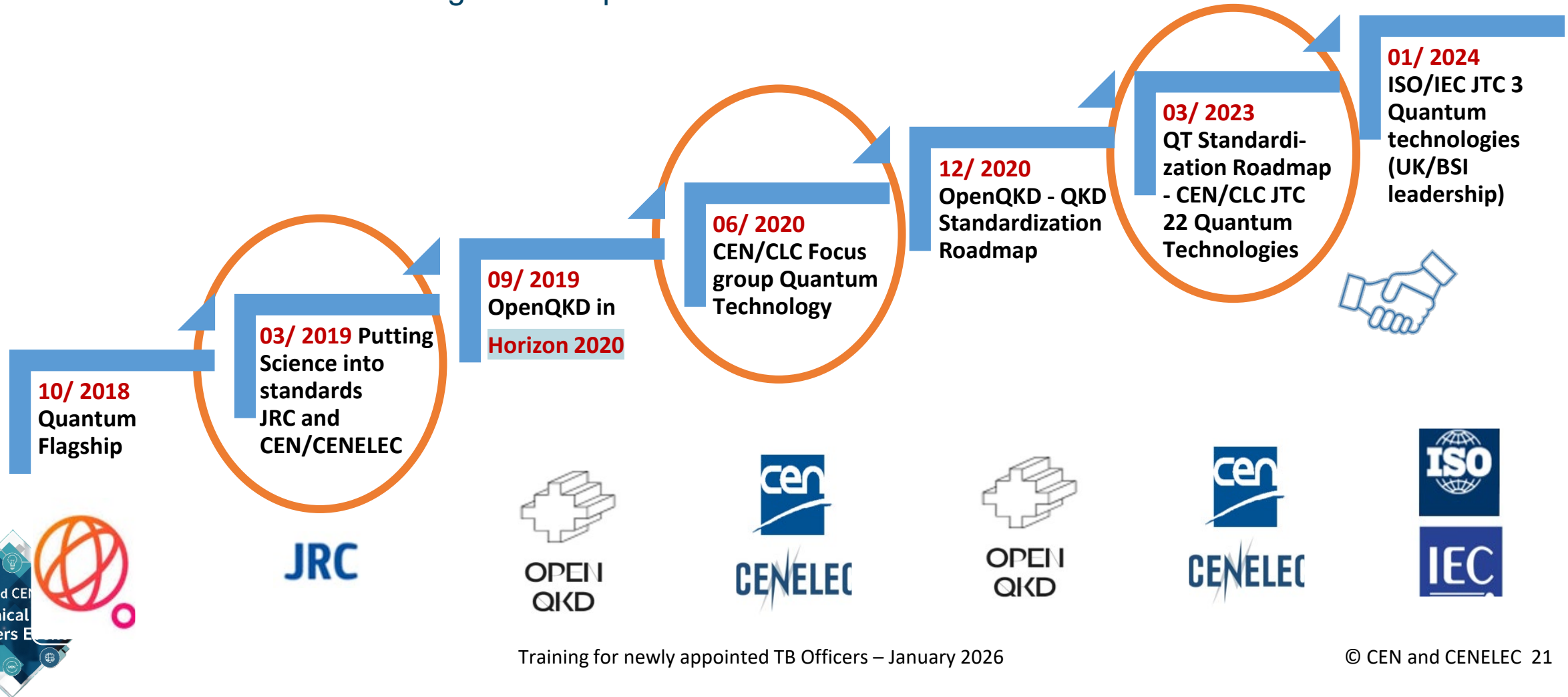
Putting Science Into Standards
We valorise research results

► Annual initiative by CEN, CENELEC, and EC Joint Research Centre (JRC) **to unite scientific and standardization communities**.

► It identifies **emerging science and technology areas** for standardization to boost innovation and industrial competitiveness.

► Past events include:
  ► Power to Hydrogen
  ► Making Quantum Technologies Industry-Ready
  ► Organ on Chip toward Standardization

Putting Science Into Standards
Quantum Technology – European leadership

Standardization as effective tool for global competitiveness

10/ 2018 Quantum Flagship

03/ 2019 Putting Science into standards JRC and CEN/CENELEC

09/ 2019 OpenQKD in Horizon 2020

06/ 2020 CEN/CLC Focus group Quantum Technology

12/ 2020 OpenQKD - QKD Standardization Roadmap

03/ 2023 QT Standardization Roadmap - CEN/CLC JTC 22 Quantum Technologies

01/ 2024 ISO/IEC JTC 3 Quantum technologies (UK/BSI leadership)

Building capacities & connections

Engage with Researchers and Innovators

Recognise Contributions

Standards+Innovation Awards 2025

This evening: TBO award!
13 Nov 2025, associated with DG RTD valorization event

▶ **Nominations presented by CEN and CENELEC national members**

▶ Acknowledge contributions of Researchers, Innovators and Entrepreneurs to Standardization

▶ 4 categories:

1. Individual researcher/innovator
2. Research project
3. Young Researcher
4. Technical Body Officer
5. NEW in 2025: Education 🎓

Standards + Innovation award for Technical Body Officers

Presented to a technical body officer (Secretary, Chair, Convenor) who actively and successfully collaborated with researchers/innovators within his/her technical body.

In 2023 awarded to Aitor ARAGÓN from UNE

Scientific references in standards

Recognize researcher's contributions

Access to the bibliographies of CEN's and CENELEC's' home-grown' standards, complementing thus the bibliographic information as already available from the ISO website for international standards:

▶ Having a scientific publication referenced in a standard's bibliography proves the importance of the scientific publication for standardization.

▶ Researchers can make use of this information in support of their scientific careers.

The bibliographies are made available as part of the overall information on CEN's and CENELEC's deliverables accessible at

https://standards.cencenelec.eu/

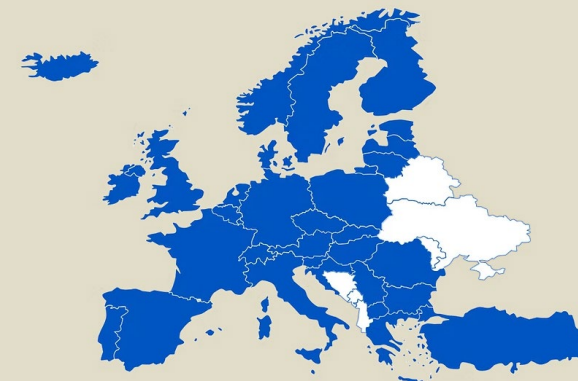▶ **CEN-CENELEC Research Helpdesk**

- Research@cencenelec.eu
- FAQ

▶ **Network of contacts in each CEN and CENELEC member** on standards & innovation

- Get started with European standards | Standards + Innovation
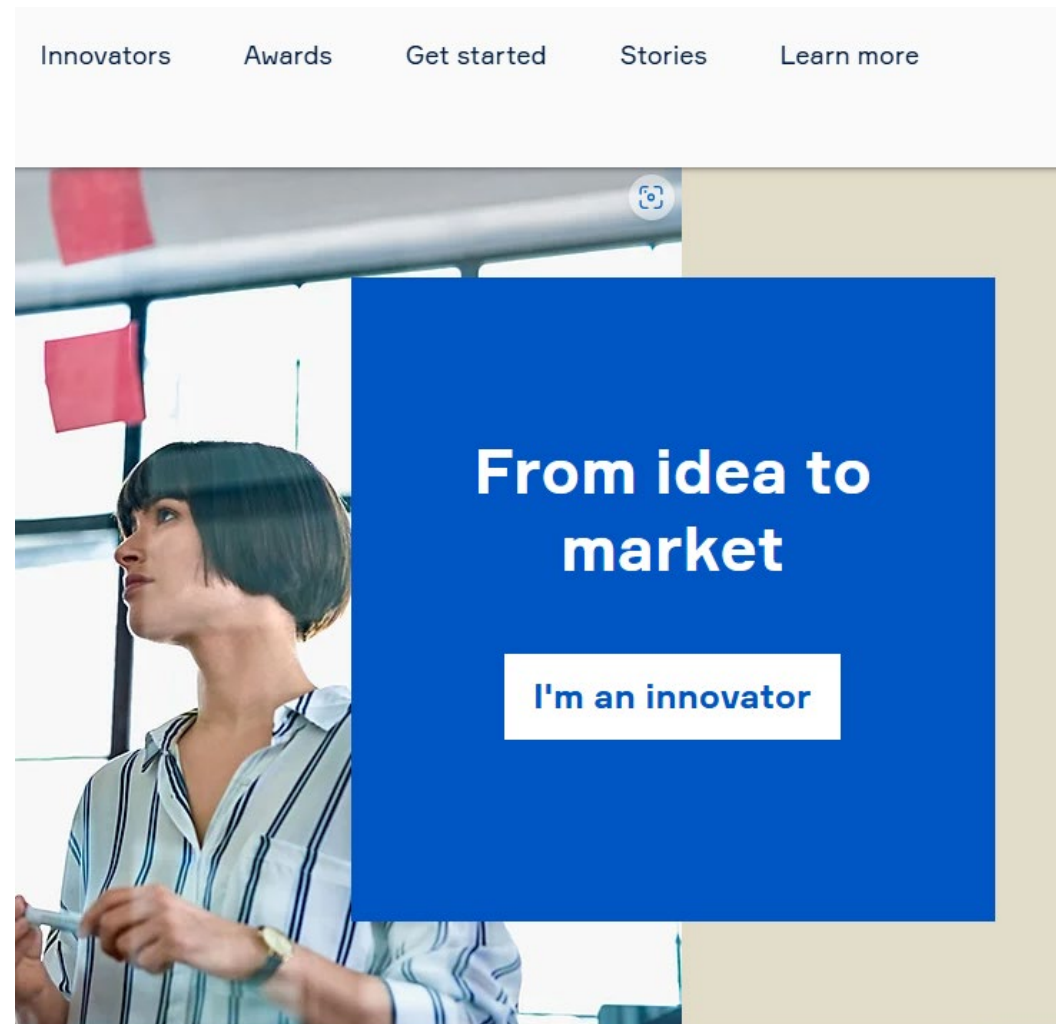
Standard & Innovation website

Dedicated to researchers & innovators

[Standards + Innovation | Boost your innovation with European standards](#)

What can NSBs and NCs do?

▶ **Awareness** is core!
  - ▶ Always look for new topics or sectors of standardization activity - at national, European or international level
  - ▶ Join research projects
  - ▶ Provide training/education

▶ **Recognition** of researchers:
  - ▶ Mention projects and research in deliverables
  - ▶ S&I awards

▶ **Dissemination** activities:
  - ▶ Spread information to TCs
  - ▶ Join existing networks, establish collaborations
  - ▶ Promote (websites, social media, events)

Take aways!

Research anticipates the future
Standardization makes it usable
Technical Bodies connect the two

- R&I is a **core part** of the standards ecosystem, not an external actor

- Effective links between **research outcomes and standards** amplify impact and uptake

- Strengthening this connection supports **innovation, competitiveness, and trust**

We need you, together we make it happen!

Thank you!

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www.cencenelec.eu

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Tag us @standards4EU

Please provide us with your feedback!

Access to the survey