

Danish Standards

Why standards matter for the energy transition

21th November 2024

About Danish Standards

Who is Danish Standards

- Denmark's official standardization organization
- Commercial foundation, founded in 1926
- 203 employees (June 2024)
- Corporate partnership with the Danish Ministry of Business Affairs

We are a member of:

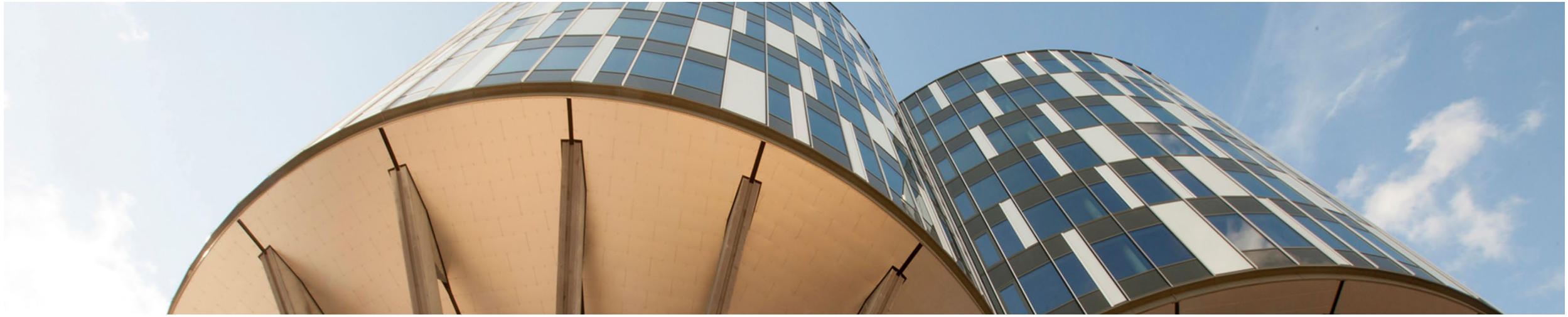
ISO IEC CEN CENELEC ETSI

A strong platform of solid brands:

DS DANISH STANDARDS

EU Ecolabel www.ecolabel.eu

ETA DANMARK



Danish Standards – the foundation

§ 4 Purpose

The purpose of the foundation is to benefit society and business through standardisation, certification, knowledge dissemination and counselling:

- through commercial services and services in the foundation (activity fund)
- through its role as a national standardisation body
- through grants in the foundation



Basic premises of Danish Standards

1. Danish Standards operates for the benefit of society

Non-profit commercial foundation, co-financed by performance contracts.

2. Danish Standards is Denmark's representative in the international organizations

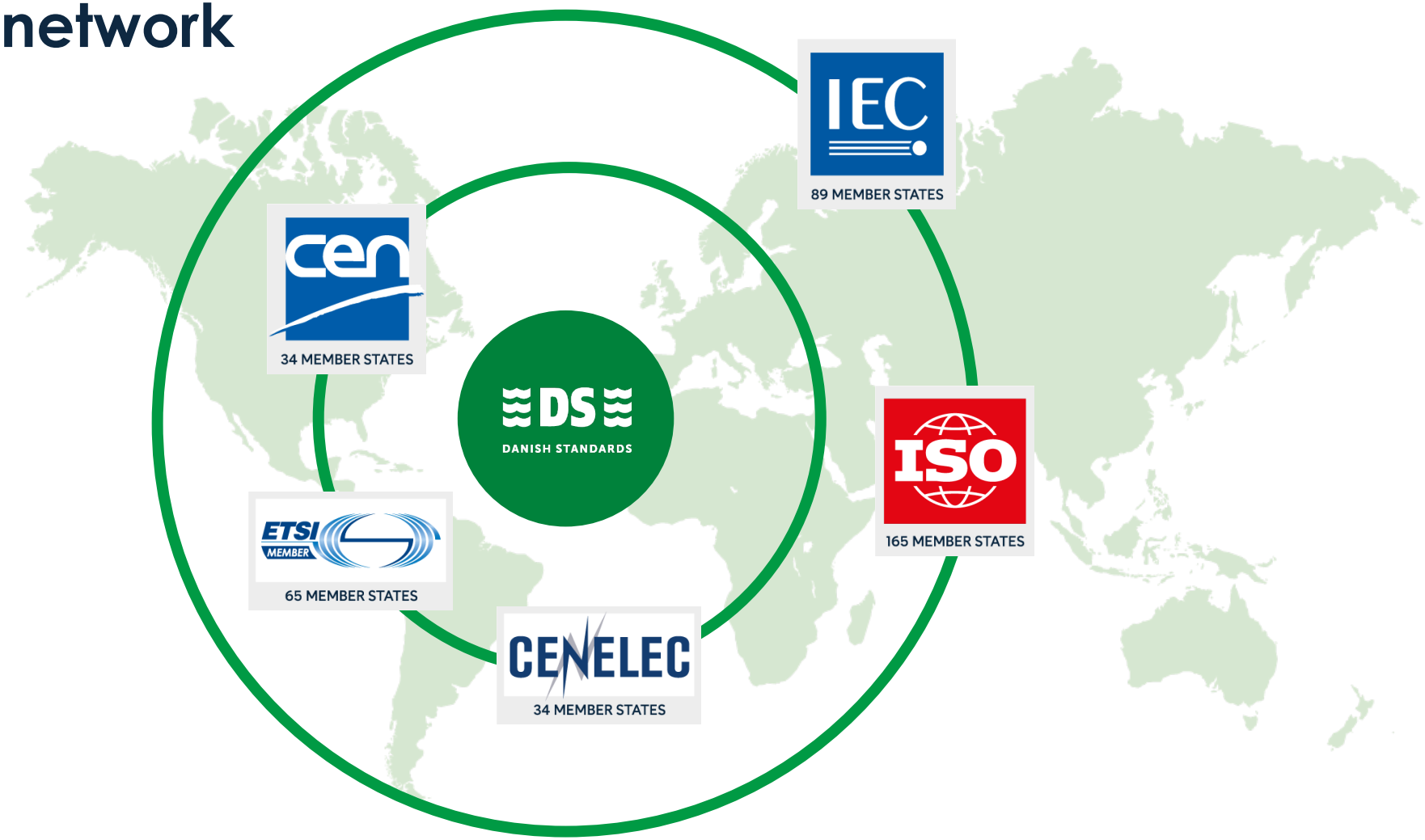
- International Organization for Standardization (ISO/IEC)
- European Committee for Standardization (CEN/CENELEC)
- European Telecommunications Standards Institute (ETSI)
- Nordic and European ecolabels.

3. Danish Standards is market-driven

Many services are provided on regular commercial terms, with focus on customers' needs.



Danish Standards – a strong player in a European and global standardisation network



About standards

What is a standard?

Standards are:

1. A voluntary market instrument
2. Consensus-driven
3. Adopted by a recognized body

Standards can set requirements for:

Construction
e.g. paper formats, threads, data formats

Systems
e.g. quality management, risk assessment, environmental management

Performance
e.g. breaking strength, safety, ergonomics, noise, radiation

Symbols
e.g. toilet pictograms, emergency exit, smoking ban

Terminology
e.g. correct definition of an electrode or a statistical concept

Methods
e.g. chemical analyses, or testing and documentation of technologies

Grundfos, Velux og Vestas – Standards contribute to a strong economy and a sustainable future

- Many Danish companies use standards and are actively working to develop them.
- This allows companies to influence the development of their industry and shape the market of the future.
- Standards ensure high quality, trust and transparency in relation to companies' products.
- They create value through efficient product development, access to new markets and as concrete tools for a sustainable transition.









"Standards bridge the gap between research and market up-take. Together with stakeholders we have developed the code of practice to ensure that research and innovation results create marketable solutions and respond to societal challenges".

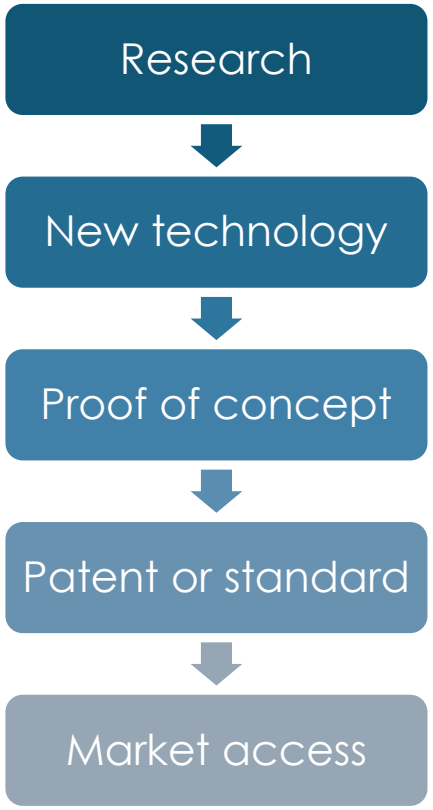
Mariya Gabriel,
Commissioner for Innovation, Research, Culture, Education and Youth

Standards as a knowledge valorisation pathway

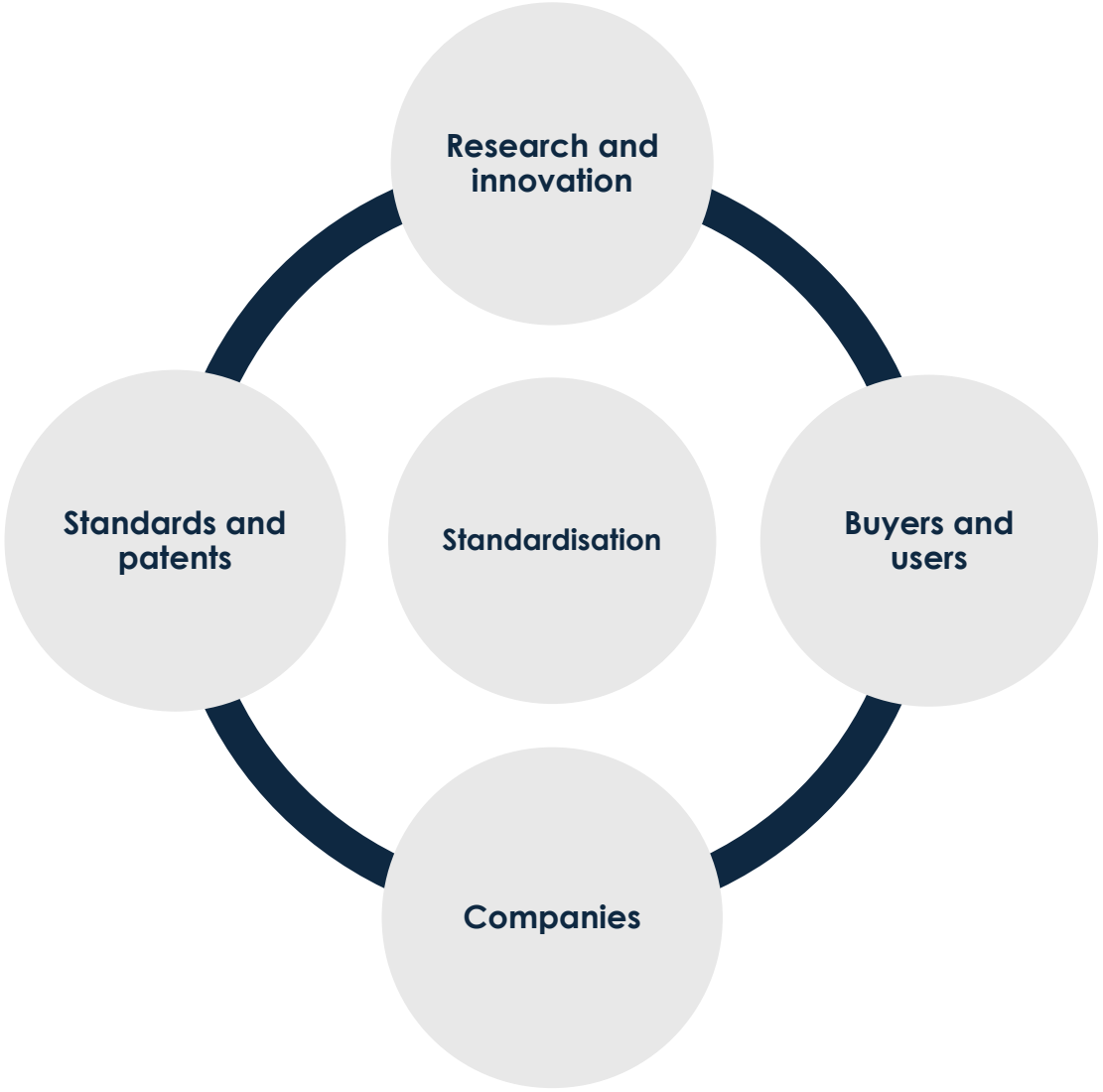
Standards can help integrate technologies into innovative systems and solutions, and can create interoperability between products, components and services.

How do we get started?

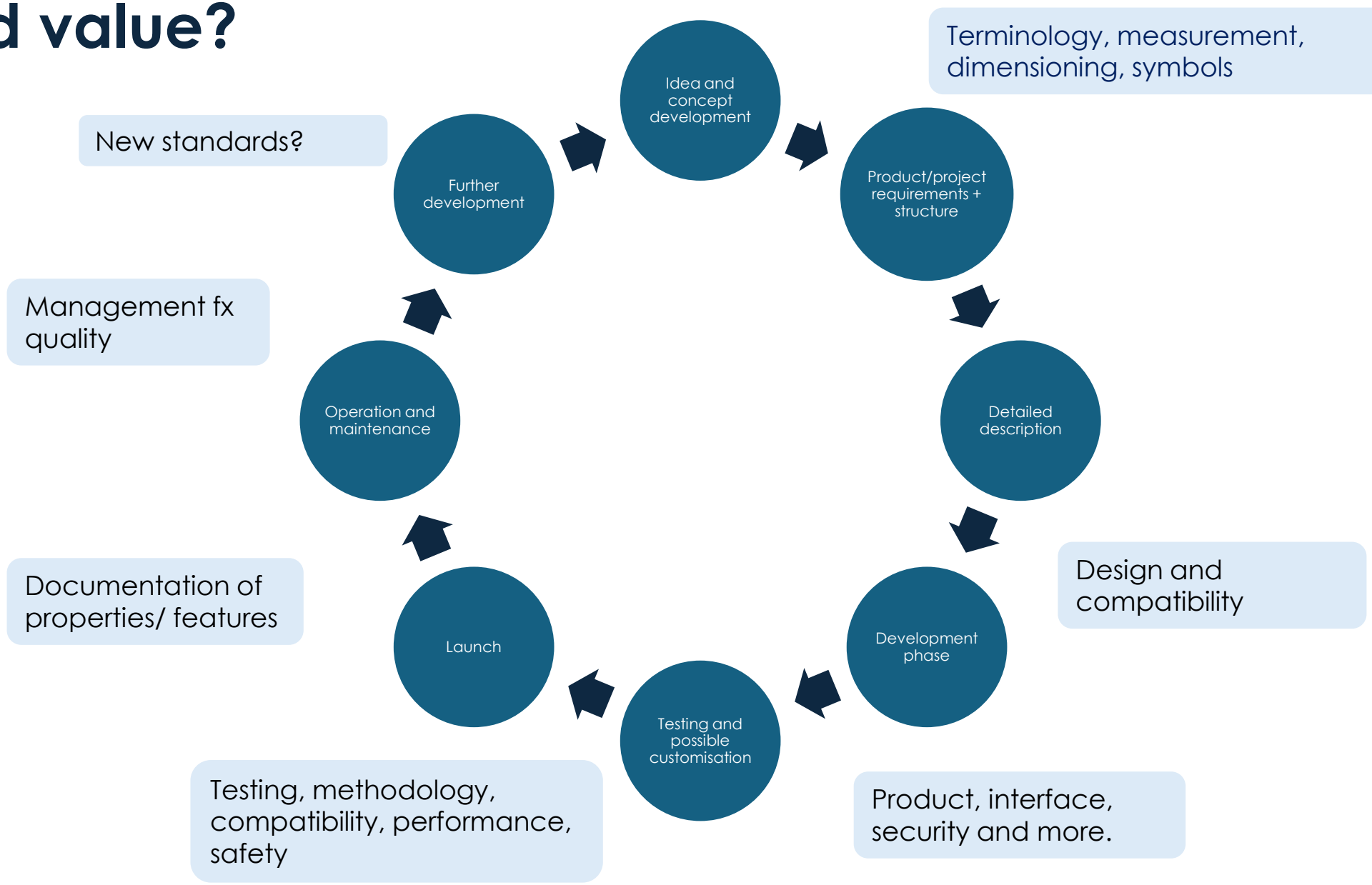
Current approach



Need for a new approach

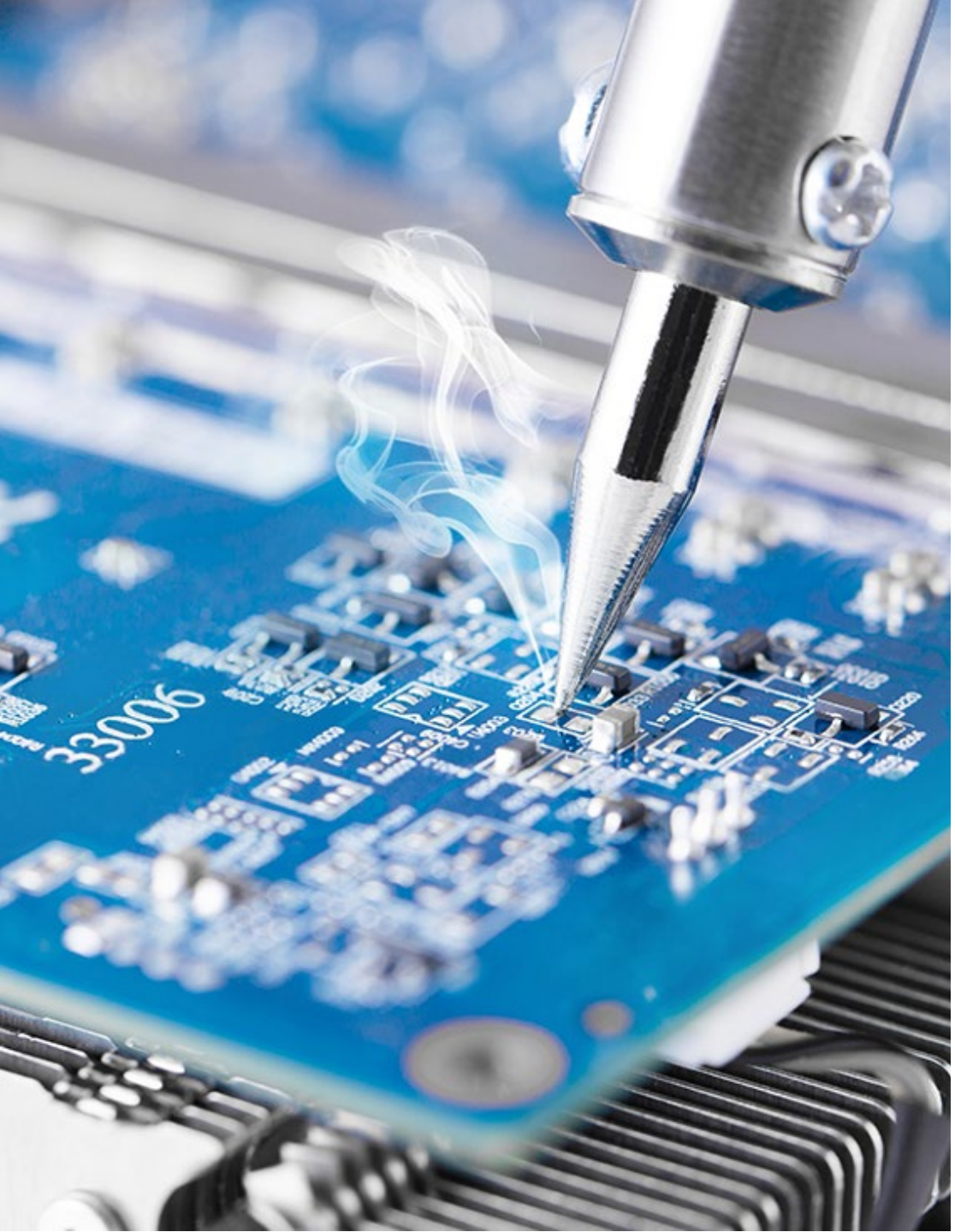


Where in the process can standards add value?



HSbooster.eu in short

- **European project launched by the EU Commission**
  - Pilot project: April 2022 – March 2025
  - Partners: Trust-IT, DS, University of Belgrade, Dublin City University, and Société Générale de Surveillance (SGS)
- **Aim of the project**
  - Increased participation of researchers in standardization
  - Increased development of new standards or revision of existing standards through contributions from EU researchers
  - Increased dissemination of new technologies using input from research projects for the development of standards
  - Stronger link between R&I and standardization – incorporate standardization in ground research
- **Target groups**
  - Horizon Europe & Horizon 2020 projects and standardization experts
- **Free of charge Booster Service for EU-projects**
  - Online support-tools and knowledge hub
  - Online training academy for standardization experts
  - Different support levels offered by standardization experts to guide projects

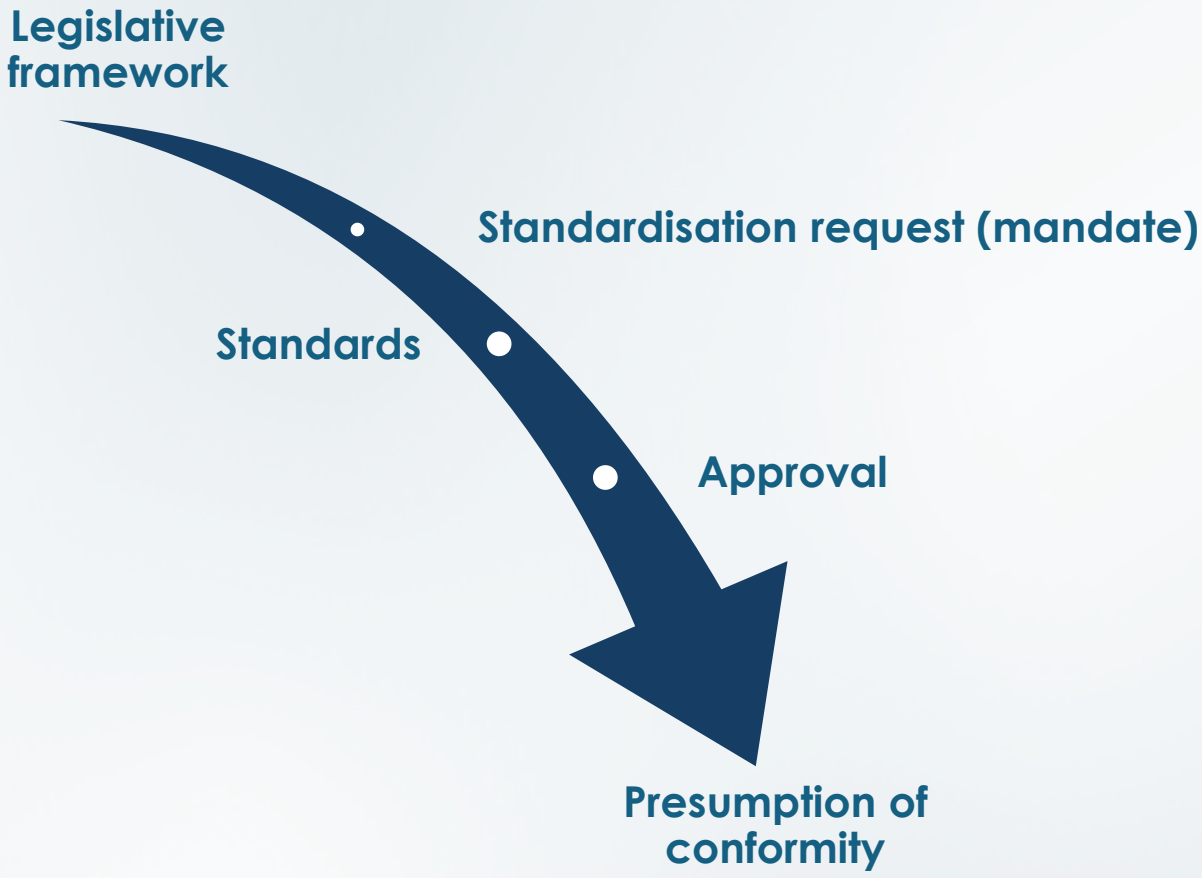


DANISH STANDARDS

Standards are voluntary and can be used in many different ways

- In agreements between trading parties
- To ensure compliance with the agreement on Technical Barriers to Trade of the WTO (World Trade Organization)
- National legislation and rule-setting
- EU-legislation, CE-marking and harmonisation

New Legislative Framework – from directive to product on the market



Single Standards Model-
Unique system & best practice



1 European Standard (EN)

⬇

34 identical national standards & all conflicting standards removed

⬇

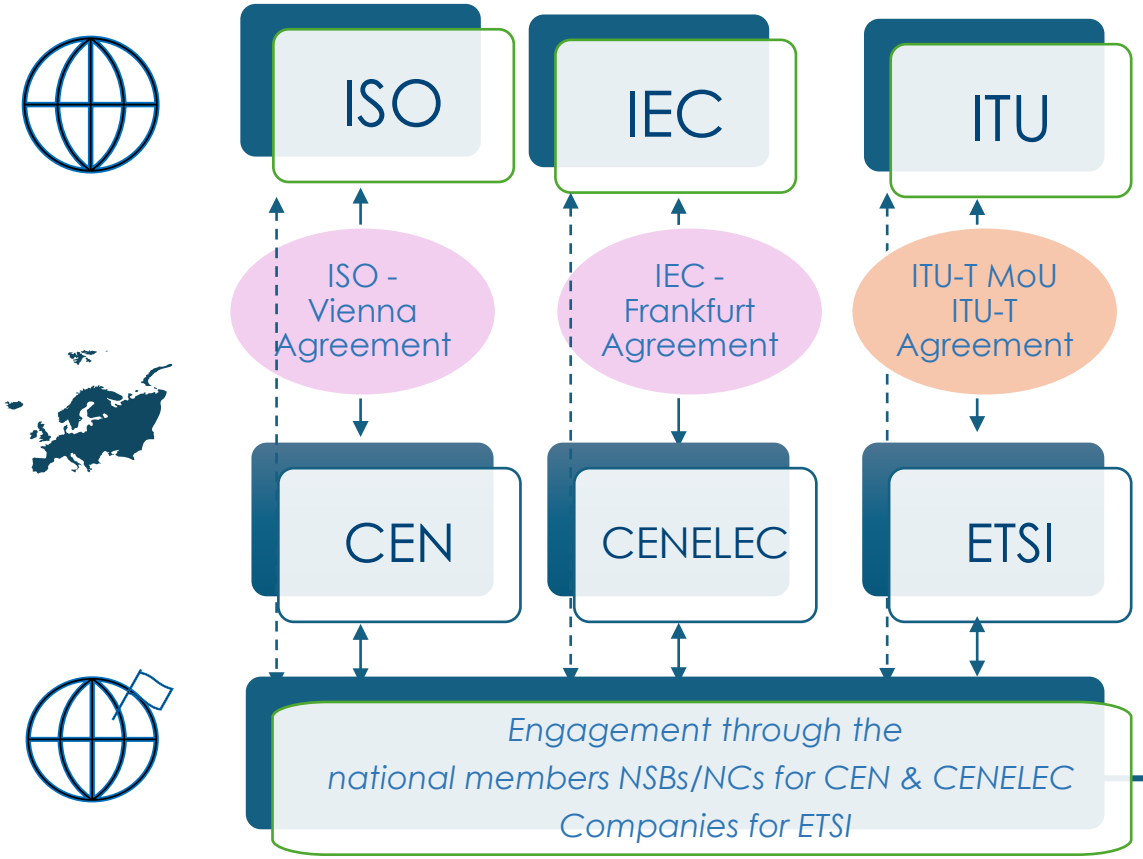
Access to a market of 600 million consumers

Standardization Interactions

WTO principles

EC/EFTA

National authorities



NSBs= CEN National Standards Bodies /NC= CENELEC National Committees

Standards Users

Environmental NGOs

Government Department

Consumer Bodies

Enforcement Bodies

Trades Unions

Educational Bodies

Professional Institutions

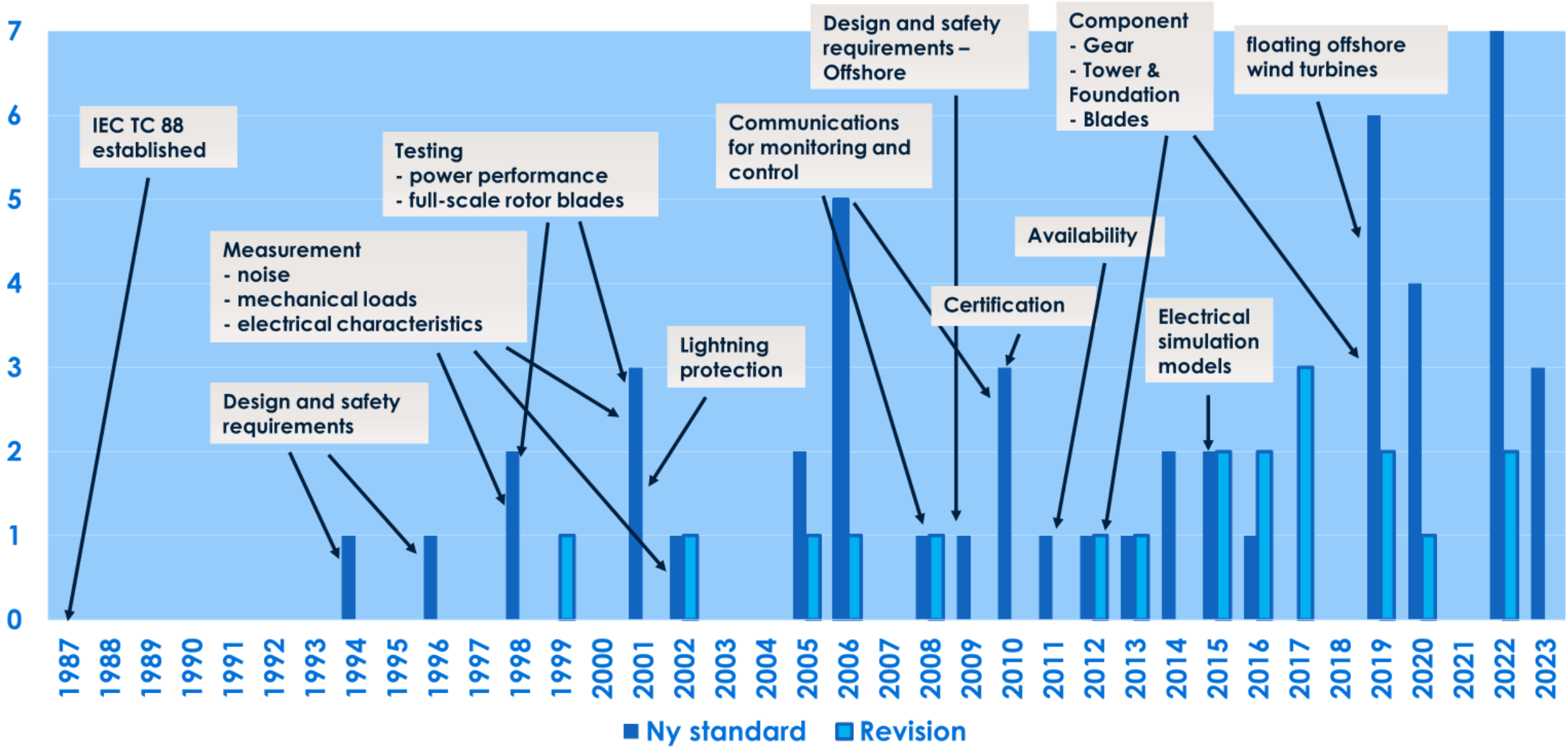
Research Organizations

Industry

Certification Bodies

Other stakeholders

IEC TC 88 standardization the last 35 years



Standards in permitting and auctions

- A way to promote sustainable and environmentally friendly wind power systems via non-price criteria.
- Harmonize the use of standards in permitting/auction processes across the Union.
- Need for guidelines and best practice examples of usage of standards in permitting.
- Need to identify needs of permitting agencies: what are the gaps and what useful standards exist?





Mega trends in the wind industry

- Wind energy has become mainstream
- Multitude of interests and contributions

- Accelerated technology development
- Upscaling, new platforms, floating offshore

- Wind energy systems
- Electrification, sector coupling, PtX

- Sustainability considerations
- Growth, resources, re-cycling

Thank you