





Who is developing the standards?

Representatives from companies, authorities, consumer organisations, NGOs, universities, etc. develop the standards. The work is open to everyone via the National Standardization Body.



The companies are calling for a standardized framework for sustainability





NSIO N

The European framework





EU GREEN DEAL







... OTHER REGULATORY INITIATIVES

Biodiversity strategy

Action Plan on a circular economy

Fit for 55' initiative

Sustainable Products initiative

Clear air & water action plan

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CSRD Corporate Sustainability Reporting Directive



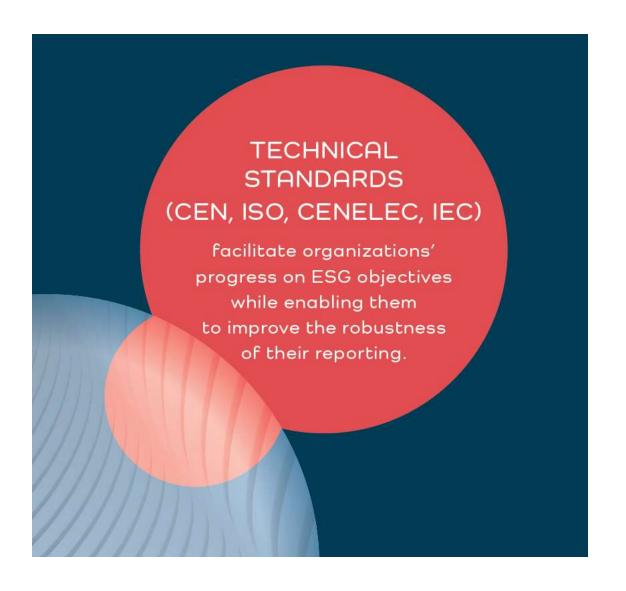
ESRS E5 Circular economy

Circular economy

- Principles, terminology and implementation.
 ISO 59004 (standard under development)
- Business models and value networks.
 ISO 59010 (standard under development)
- Measurement and assessment of circularity.
 ISO 59020 (standard under development)
- Circular product design. EN 45560

Sustainability aspects (European rule from the corresponding report)	Examples of topics covered by technical standards Net zero emissions Carbon footprint of products and organizations Adaptation to climate change	
Climate (ESRS E1)		
Pollution (ESRS E2)	European reference methods for determining pollutants in the air	
Water (ESRS E3)	Water footprint Water use efficiency	
Biodiversity (ESRS E4)	Strategic consideration of biodiversity for organizations (in development)	
Circular economy and resources (ESRS E5)	Circular Economy Implementation and Circularity Measurement (in development) Methods to assess the ease of reusing, repairing or recycling products Energy management	
Own workforce (ESRS S1)	Occupational health and safety management Diversity and Inclusion in Human Resource Management Implementation of gender equality (in development)	
Workers in the value chain (ESRS S2)	Corporate Social Responsibility	
Affected communities (ESRS S3)	Sustainable procurement and contracting	
Consumers and end users (ESRS S4)	Accessible design Inclusive service	
Governance (ESRS G1)	Governance Compliance management. General and specific topics: criminal, tax, socio-labour Antifraud and Whistleblowing	





European Sustainability Reporting Standards 2, General Disclosures. AR 2.

The undertaking may disclose whether it relies on any European standards approved by the European Standardization System (ISO and IEC or CEN and CENELEC standards), as well as the extent to which data and processes that are used for sustainability reporting purposes have been verified by an external assurance provider and found to conform to the corresponding ISO and IEC or CEN and CENELEC standard.





Challenges

Ressource demanding

Requirements for documentation in the value chain



Companies not directly covered by the CSRD may be affected due to requirements in their value chain







Standards are voluntary, until someone makes them binding

Standards can become binding in two ways:

- An agreement between two parties
- National or European law (acts and directives)

What is a harmonised standard?



REGULATION (EU) No 1025/2012 defines a harmonised standard as:

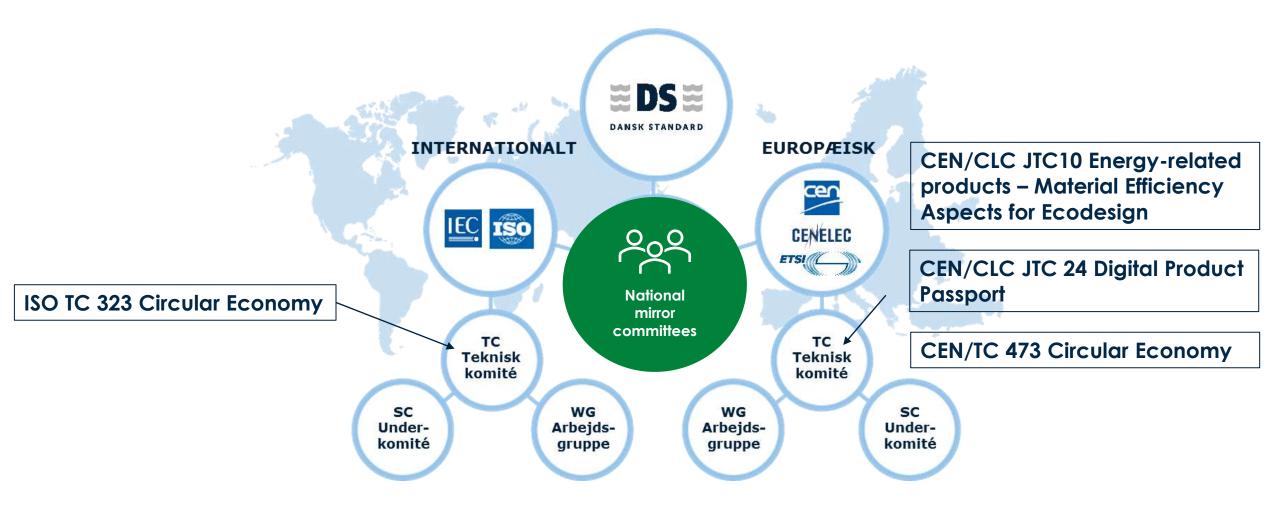
'harmonised standard' means a European standard adopted on the basis of a request made by the Commission for the application of Union harmonisation legislation



Standardization Request a **precondition** for citation of harmonized standards in OJEU



International and European initiatives



European Committees



CEN/CLC JTC 10

Material efficiency aspects for products in scope of Ecodesign legislation

EN4555X-series

- Terminology
- Durability
- Repair, reuse, upgrade
- Remanufacturing
- Recycling
- Communication and dokumentation
- Cirkular design

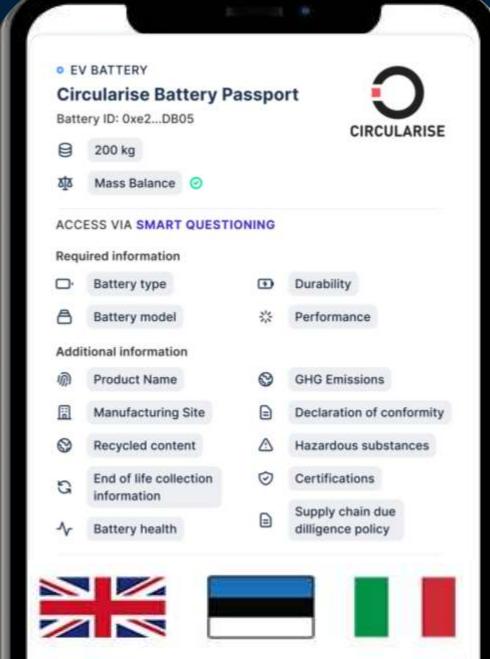
CEN/TC 473 Circular Economy

- EU Circular Economy Terminology, Framework & Principles
- Information Sharing
- Extended Producer Responsibility
- Circular Business Models



DPP The Digital Product Passport







DPP design

DPP-system



(the "HOW". To be developed horizontally for all product groups and legislations)







DPP-data

(the "WHAT". To be identified when developing product-group specific secondary legislation)

- All standards and protocols related to the IT architecture (8 modules)
- The DPP registry

The data to be included in each DPP will be decided through ESPR Delegated Acts adopted by the Commission when regulating specific product groups



List of Standards to be delivered by JTC24



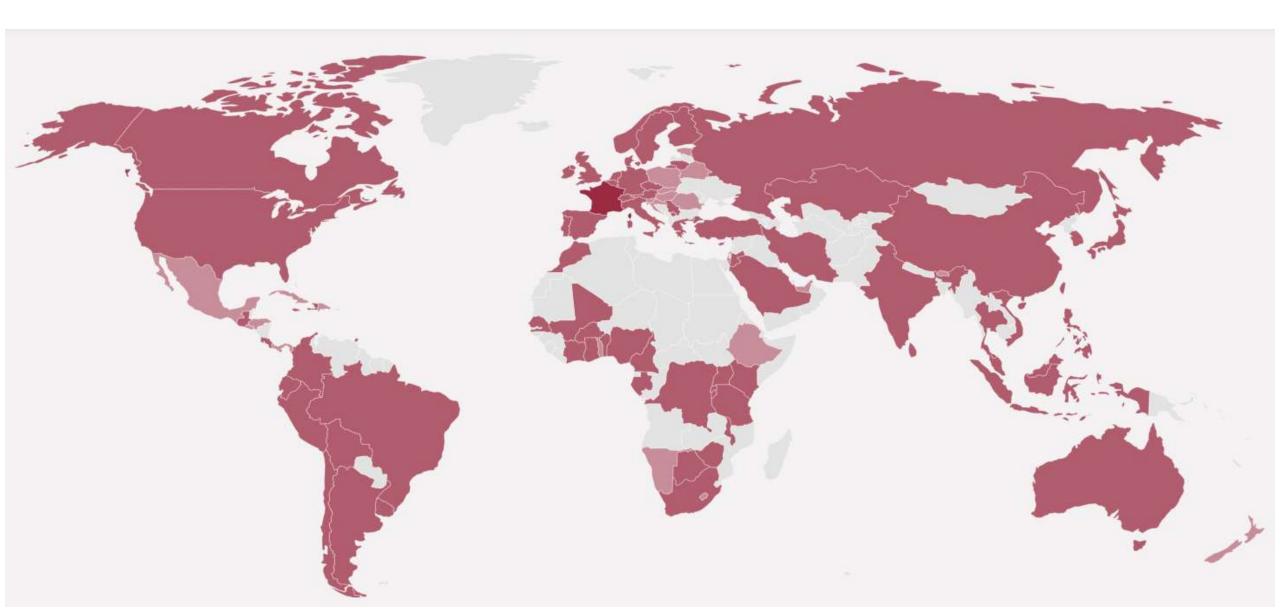
List of European standards to be drafted and deadlines for their adoption as referred to in Article 1

Reference information		Deadline for the adoption by the ESOs
1.	European standard(s) on unique identifiers	31 December 2025
2.	European standard(s) on data carriers and links between physical product and digital representation	31 December 2025
3.	European standard(s) on access rights management, information, system security, and business confidentiality	31 December 2025
4.	European standard(s) on interoperability (technical, semantic, organisation)	31 December 2025
5.	European standard(s) on data processing, data exchange protocols and data formats	31 December 2025
6.	European standard(s) on data storage, archiving, and data persistence	31 December 2025
7.	European standard(s) on data authentication, reliability, integrity	31 December 2025
8.	European standards on Application Programming Interfaces (APIs) for the product passport lifecycle management and searchability	31 December 2025

ISO/TC 323 Circular Economy

78 P-members 22 O-members





ISO/TC 323 standards May 2024

WG1 (lead by Brazil-France)

ISO 59004 - Circular Economy - Terminology, Principles and Guidance for implementation

WG2 (lead by Japan-Rwanda)

ISO 59010
Circular Economy –
Guidance on business
models and value
networks

WG3 (lead by Netherlands)

ISO 59020
Circular Economy –
Measuring and
assessing circularity

WG5 (lead by Luxembourg-China)

ISO 59040
Circular Economy –
Product Circularity Data
Sheet

JWG14 (lead by Switzerland-Mauritius)

ISO 59014
Environmental
management and
circular economy –
Sustainability
and traceability of
secondary materials
recovery – Principles
and
requirements

WG4 (lead by Brazil - secretariat Kenya)

ISO TR 59031 – Circular Economy – Performance based approaches

ISO TR 59032 – Circular Economy – Review of business model implementation

ISO/TC 323 Circular Economy - timeline



TR 59032, TR 59031 publication

End 2023 March 2024

ISO 59004, ISO 59010, ISO 59020 publication

July-September 2024

ISO 59014, ISO 59040 publication

From April 2024...

Plan the collection of return of experiences to prepare revision of ISO 59004, ISO 59010, ISO 59020

Return of experiences: eg not directly on standards implementation, but standards readiness. understanding, gap with current practices, business models and measurement, consistency of the 59000 series, ...

April-May 24

0/ Process to be designed by TC323 CAG: timeline, designation of experts' team from all WGs, tool to be used, financial support?, etc...

Deliverable: Project specifications

June 24 1/ Survey

July-december 24

2/ Survey time

technical and geographical scopes,

qualitative and quantitative questions, ...

elaboration:

Deliverable: Questionnaire January-March 25

3/ Results exploitation

Deliverable: Results document

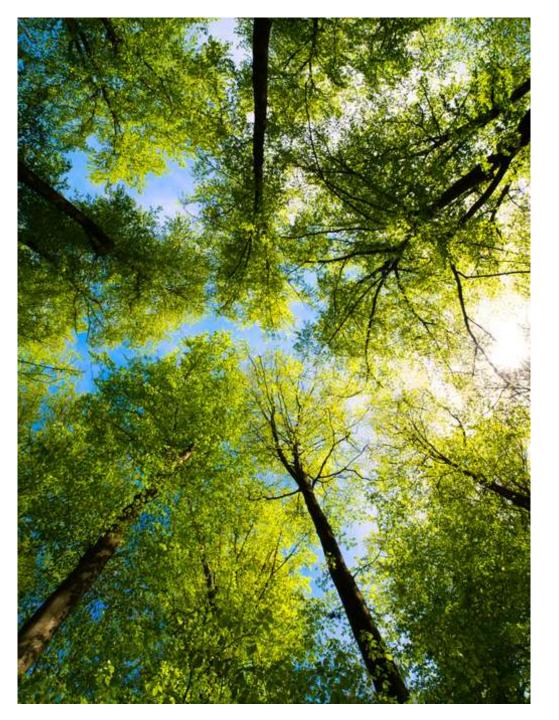
April 25 4/ Revision preparation

Deliverable: Guidance for revision for each standard

Launch the revision of ISO 59004, ISO

59010, ISO 59020

...To May 2025





Take aways

- EU Commission has set very ambitious goals for sustainable development – can be challenging for SME's
- Many initiatives and standards are developed or under development to support a sustainable development
- Global network: Many European Companies are depending on a Global value chain – and efficient communication
- Challenge: The maturity level of circularity and ambition is higher in Europe than in some other parts of the world





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