

Digital Transformation:

Recent strategic development and the way forward for an efficient and fast standardization process

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Digital Transformation: Strategy & Projects



► In line with:

1. CEN – CENELEC Ambitions 2020:

- Supporting the digital transformation of European industry (Regional Relevance)
- Engaging digital natives and professionals through strategic partnerships (Wider Recognition)
- Offering modern, flexible processes (online standardization) and services (standards' content, agile system) (Network of Excellence)

2. CEN-CENELEC Declaration on Standards Build Trust for the 2019-2024 EU-term:

- Trust in new technology: Providing European best practices to lead the digital transformation of society with citizens' interests in mind.

3. Draft CEN-CENELEC Strategy 2030

Goal #2 on Embracing Digital Transformation

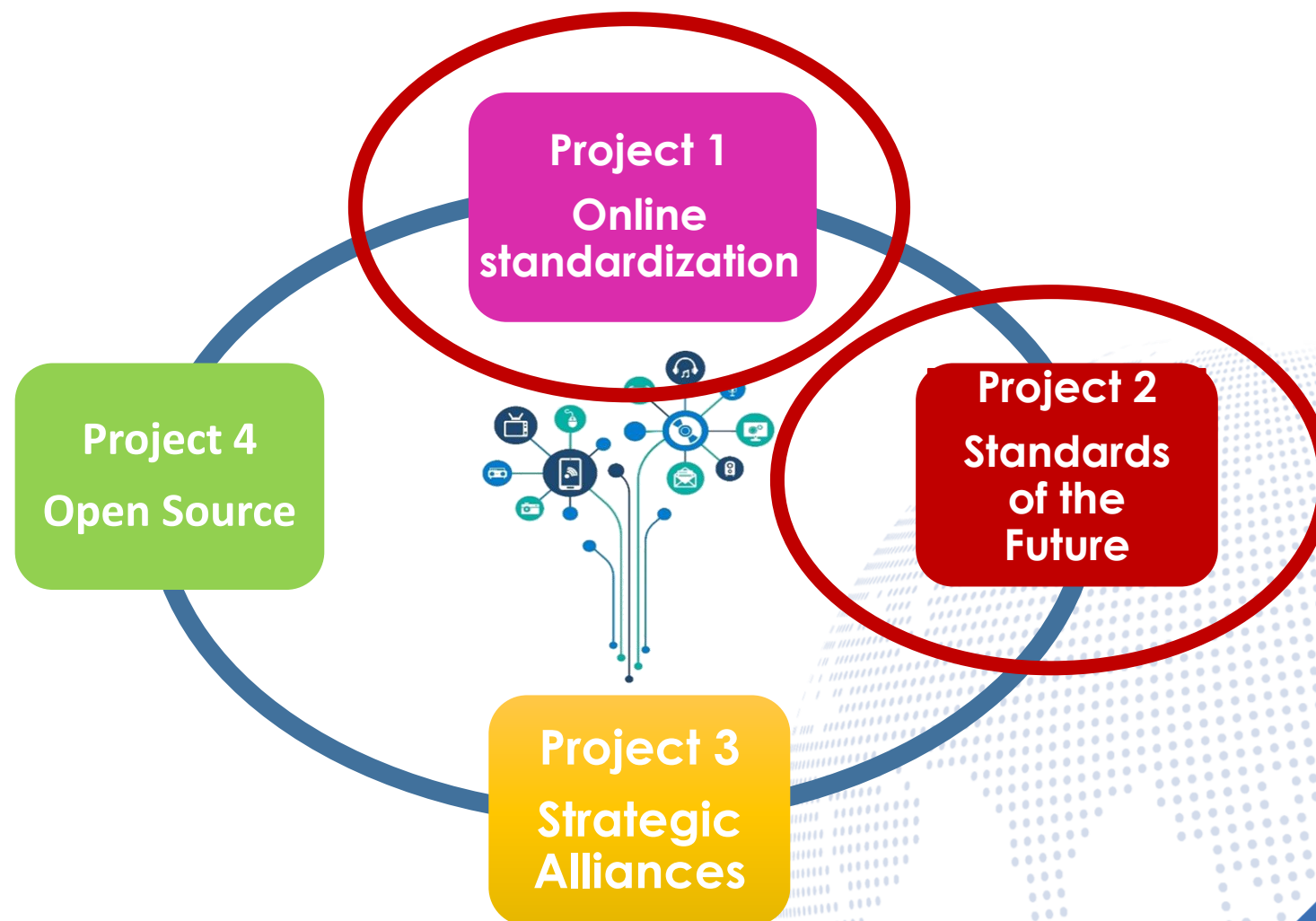
► Two main focuses:

- Ensure CEN and CENELEC meet the needs of industry sectors to digitally transform
- Make the CEN - CENELEC system more agile and adaptable to market and technology innovations, through digital transformation



Digital Transformation: Strategy & Projects

**Strategic Plan
Adopted by the
General Assemblies
on
21 June 2017
+
4 Projects
adopted by CAs**



4 Pilot Projects

Online standards development

- Seamless, 24/7 user-friendly environment for efficient collaborative authoring of standards, ensuring timely delivery to the market.

Standards of the future

- Define 'standards of the future' and how to deliver them.
- Supporting groups: TF Digital Content and Ad hoc group JCAG/Legal Platform

#2

Establish strategic alliances

- Ensure CEN and CENELEC are credible and effective leaders in the digital domain through a market-led, formal engagement strategy.
- Supporting group: TF Strategic Alliances

#3

Explore Open Source Innovation

- Identifying opportunities for standardization to support market uptake of 'open source' innovations.
- Supporting group: TF Open Source Innovation

#4

Project 1: Online Standardization Platform



► Objectives:

- ✓ Modernization and digital transformation of standards development in CEN - CENELEC through a seamless and integrated working environment for collaborative authoring of standards
- ✓ Online authoring
- ✓ Joint developed collaborative platform between ISO, IEC, CEN and CENELEC ensuring interoperability and integration with national and international systems, as well as enabling new means and forms of content exploitation.

Project 1: Online Standardization Platform



- ❖ In line with ISO and IEC, CEN and CENELEC:
 - ✓ discuss on the licensing with FontoXML, integration and training prior the pilot phase.
 - ✓ will start a pilot project on online authoring
 - ✓ Share & exchange training material between ISO, IEC and CEN-CENELEC
 - ✓ Work together with ISO and IEC on the phase prior to the launch of the pilot (Licencing, integration, training).
- ❖ The objectives of the pilot will be to:
 - ✓ Gather experience with real working conditions
 - ✓ Assess how far the tool is fit for purpose
 - ✓ Get feedback/suggestions on new ways of working and possible changes to the process
 - ✓ Identify which rules/guidance/trainings are necessary for a successful implementation
- ❖ CCMC will start the assessment of the impact on
 - ✓ CEN-CENELEC production
 - ✓ translation process
 - ✓ consultant assessment

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Project 2: Future of Standards

► Objectives:

- ✓ Put CEN-CENELEC in a position to provide digitally adapted standards content to facilitate the CEN and CENELEC Members' service offerings to support industry's digital transformation.
- ✓ Adapt processes and governance to deliver machine-readable and interpretable standards content, in a secured way
- ✓ Set the legal framework to help the CEN-CENELEC Members to develop a business model for exploiting this digital content

Project 2: Future of Standards

► Legal protection and Liability:

Two reports (on IPR protection and liability) were delivered earlier in 2019. These serve as input / guidance to CAFG Financial Model

► Distribution of digital content :

1. Define scenarios on architecture of repositories (centralized vs decentralized access) to digital content, taking into account IPR, liability and licencing aspects

2. Pilot Project on Construction & Petroleum:

Restructuring requirements in order to make them machine-interpretable

Use of existing standards to avoid delays linked to consensus /acceptance

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Pilot Projects: Construction & Petroleum

January 2019 – January 2020

► **Objective:** understand how the standards development process needs to be adapted to create machine readable/interpretable files.

From January 2019 to December 2019.

Output of this project should provide input and guidelines for:

- ✓ Redefining the textual content rules of standards
- ✓ Restructuring and identification of content
- ✓ Identifying the tools needed to support this process
- ✓ Scoping of what can be done within the standards development process and what needs to be user specific

► A more structured approach between ISO-IEC-CEN-CENELEC is needed

Project 2: Standards of the Future

► Cooperation with ISO and IEC

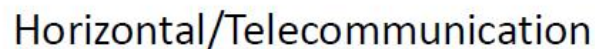
- ✓ Common participation in groups
- ✓ Share information from IEC SG 12 on a 4-steps classification scheme to define and describe machine interpretable standards. It was suggested that the TF Digital Content could work together for a compatible solution that everybody can use (ISO, IEC, CEN, CENELEC etc.).
- ✓ CEN-CENELEC Pilot Project on petroleum **CEN/TC 12** Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries in line with **ISO/TC 67** Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries.

Project 3: Strategic Alliances

- ▶ Give CEN - CENELEC the necessary tools (linkage mechanisms) and network (partnerships) to ensure an adequate and sustainable standardization response to the needs of European industry facing the challenges of digital transformation.

⇒ **CEN-CENELEC Value Proposition & Selection Criteria**

- ▶ Digital transformation calling for broader strategic alliances
- ▶ Increasing requests for cooperation with other international standards developing organisations
- ▶ Need for hybrid approach for standardization work (fora, consortia)
- ▶ Need to broaden engagement while respecting our commitment to reinforce and privilege ISO and IEC



Project 4: Open Source

► Objectives:

- ✓ Develop an approach for linking standardization and Open Source activities:
- ✓ links with Open Source communities & integrate OSS in Standardization
- ✓ Understand the impacts open source may have on SDOs Business Models

► In February 2020, Workshop with CEN-CENELEC TC experts and OSS experts to exchange ideas and raise awareness on consensus development collaboration

► No official connection between ISO, IEC, CEN and CENELEC initiatives, except that the convenor of P4 is also a member of ISO/IEC JTC 1

Digital Information Technology Strategy Advisory Group (DITSAG)



✓ Objective:

- ✓ Deliver clear and coordinated advice with a comprehensive and forward looking approach on all aspects related to the Digital and IT implementation of the CEN-CENELEC Strategy, and to identify priorities, resources and budgetary implications to enable informed CAs decisions.

✓ Composition of the Group:

- ✓ Executive Officers with broad strategic and oversight level of Information Technology and/or Digital Matters, as well as broad knowledge of CEN-CENELEC business activities.

✓ First Meeting: 9 October 2019

✓ Second Meeting: 1 April 2020

✓ CCMC Contact Person: Ines Briard, ibriard@cencenelec.eu

DITSAG: Next steps

► Monitor the progress on the three CEN-CENELEC Digital projects

► **Identification of priorities**

Map Digital and IT Groups in ISO, IEC, CEN, CENELEC

Further develop the Standard Development Process Map (of today and Tomorrow)

Matrix between the needs, groups, today's and tomorrow's process

► **Support the Cross-feeding exchanges between various groups**

► **Translate CEN-CENELEC Strategy 2030 in concrete projects**

Overall

- ▶ Any decision on digitalization of the standardization process has an impact on the business model of CEN-CENELEC Members

- ▶ More coordination with ISO & IEC are needed on digital aspects:
 - ✓ Active coordination between the various ISO, IEC, CEN-CENELEC groups/initiatives,
 - ✓ Map the groups involved in digital transformation at ISO, IEC, CEN-CENELEC levels
 - ✓ Create a network based on a compilation of all the participants in ISO, IEC, CEN-CENELEC groups, including project leaders and Central Secretariats contact points
 - ✓ Thanks to the creation of the CEN-CENELEC Digital and Information Technology Strategic Advisory Group (DITSAG), coordination with ISO and IEC will be smoother as they are members of DITSAG

Thank you

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