



# SLOVENSKI STANDARD SIST-V CEN/CLC Guide 23:2021

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Nadomešča:

SIST CEN/CLC Guide 23:2013

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**Raziskovalni konzorcij Bridge - Raziskava obravnavanja in inoviranja pri evropskih standardizacijskih dejavnostih in pričakovani rezultati**

Research Consortium Bridge - Addressing Research and Innovation in European Standardization activities and deliverables

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**ICS:**

01.120

Standardizacija. Splošna  
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**Research Consortium Bridge-  
Addressing Research and  
Innovation in European  
Standardization activities and  
deliverables**

**Edition 3, October 2020**

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[www.cen.eu](http://www.cen.eu)

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## European foreword

This document (CEN-CENELEC Guide 23:2020) has been initially prepared by the EC/EFTA funded project BRIDGIT2 (Bridge the Gap between Research, Innovation and Standardization Community). BRIDGIT2 was carried out between December 2017 and February 2020 by AFNOR (France), ASI (Austria), ASRO (Romania), BDS (Bulgaria), DS (Denmark), NEN (the Netherlands), NSAI (Ireland), UNE (Spain) and UNI (Italy) with the coordination of DIN (Germany) and support from CCMC. The draft from BRIDGIT2 was then processed by a group at the level of the CEN/CENELEC Technical Boards, the Secretariat of which was held by the Austrian Standards International.

This document has been drafted in accordance with the rules given in CEN-CENELEC Internal Regulations Part 3.

This third edition cancels and replaces the second edition (CEN-CENELEC Guide 23:2013), which has been completely revised.

This edition focuses on the role of the CEN/CENELEC Technical Bodies and national members in addressing Research and Innovation results in European Standards and other standardization deliverables.

NOTE When the expression CEN/CENELEC appears it refers according to the context to CEN or to CENELEC or to CEN and CENELEC jointly.

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## Introduction

CEN and CENELEC developed this Guide to strengthen the competitiveness of European industry as well as Europe's society as a whole through a strong relationship between research, innovation and standardization. This follows the Innovation Plan which was approved by the General Assemblies of CEN and CENELEC during June 2018 in Bled. The Joint Initiative on Standardization under the EC Single Market Strategy reconfirms this link between research and innovation with standardization for the benefit of all<sup>1)</sup>. Already the definition of the term "Standard", as provided in CEN/CENELEC Internal Regulations Part 3 (Definition 3.1.2) and EN 45020:2006 (Definition 3.2), states that Standards should be based on the consolidated results of science, technology and experience, and aimed at the promotion of optimum community benefits.

European Framework Programmes like Horizon 2020 and Horizon Europe focus more and more on the impact of research and innovation in developing, supporting and implementing Union policies, and support the uptake of innovative solutions in industry and society to address global challenges. This strategic objective emphasizes the market relevance of standards when research and innovation are combined with standardization.

These Framework Programmes cover sectors that are very important for standardization. Many funding calls of these Framework Programmes already reference standardization and request projects to actively contribute to standardization. The reasons for this are for instance, that European Standards and standardization:

- disseminate research and innovation knowledge to industry, society and public administrations,
- facilitate market acceptance by enabling interoperability and compatibility of innovative solutions with existing products, services, systems and processes, especially within the Single Market,
- facilitate trade by diminishing technical barriers, being fundamental for the Single Market,
- facilitate technology transfer, i.e. enable businesses to adapt their products/services quicker as they receive information about existing and future standards,
- ease access to public procurement markets through tenders/calls,
- reassure customers and consumers through mitigating risks and ensure dependable performance (e.g. of new technologies),
- support networking between different stakeholders, including scientific and commercial collaborators,
- address the need to provide flexible and agile responses to an increasingly complex landscape of digital technologies, policies, structures and alliances,
- can be recognized simultaneously at international level due to Agreements between CEN, CENELEC and ISO, IEC.

To strengthen the link with research and innovation projects in general and with EU-funded projects in particular is an excellent opportunity for getting European Standardization Organizations and their national members involved in innovative fields, avoiding that new technologies would need to go through other paths to set common guidelines, standardized methodologies and specifications. It should be noted that projects of Framework Programmes are already feeding into European standardization activities, directly or indirectly, addressing evolving market needs identified in these research and innovation projects. It should also be recognized that, in such projects, partners come from research as well as from industry, which are the kind of stakeholders already participating in national, European and International standardization.

1) [https://ec.europa.eu/growth/content/joint-initiative-standardisation-responding-changing-marketplace-0\\_en](https://ec.europa.eu/growth/content/joint-initiative-standardisation-responding-changing-marketplace-0_en)

## CEN-CENELEC Guide 23:2020 (E)

### 1 Scope

This document provides guidance on addressing research and innovation (R&I) in European standardization activities and deliverables.

Secretaries and chairpersons of CEN/CENELEC Technical Bodies as well as CEN/CENELEC national members are encouraged to actively promote the application of this document.

### 2 Integration of R&I in standardization activities

#### 2.1 General understanding how standards and standardization are addressed in R&I

Main R&I actors are basic and applied researchers in universities or research and technology organizations, innovators, start-ups or research, development and innovation departments in industry, including Small and Medium Sized Enterprises (SME).

When they engage in CEN-CENELEC standardization activities, this can be done through direct participation in national mirror committees (see 2.2) or by linking their specific projects to European standardization activities (see 2.3).

Most of the European efforts in R&I are driven by the European Union's multiannual Framework Programmes for funding, such as Horizon 2020 (2014-2020) or Horizon Europe (2021-2027). They imply a heavy public investment from the Member States and seek a strong impact in industry, market and society by addressing new technologies and innovative solutions to common challenges.

European R&I projects typically are multinational, collaborative projects involving a consortium with partners from different types of organizations (research institutes, universities, SMEs, large industries, NGOs, etc.) established through an agreement with the European Commission. The project duration is usually between two and four years and in this time, the project consortium needs to develop and provide the agreed-on project deliverables.

Many of the calls for European R&I projects in these programmes are requesting contribution to standardization (using existing standards or other standardization deliverables such as TS and/or contributing to generate new ones) as an expected impact. There are different ways in which standardization is addressed in such projects, for instance:

- Standardization Roadmap: In this project deliverable, the current status of standardization in a specific area is outlined following an extensive analysis of a topic regarding standardization. It includes future fields of activities and concrete recommendations.
- Standardization Strategy: In this project deliverable, standardization proposals in a specific area – not necessarily limited to the scope of one single CEN/CENELEC Technical Body – are usually summarized focusing on innovative and upcoming topics. This project deliverable is comparable to a Roadmap but less extensive.
- Contribution to existing and/or initiating new standards or other standardization deliverables: A proposal for changes to existing standards and/or for creating new standards is either part of a Standardization Roadmap, Standardization Strategy or a stand-alone project deliverable following an in-depth gap analysis during the project.

The work to be done in the project is divided in different thematic Work Packages (WP) which are integrated by several Tasks. The outcomes of these tasks are Deliverables, which can be reports, publications, prototypes, events, etc.

A typical basic structure for a R&I project could look like this:

- WP1 Project Management
- WP2 Initial requirements
- WP3 Technology development



- WP4 Validation – Demonstration
- WP5 Dissemination and Exploitation (including Standardization)

Tasks addressing standardization receive input from technology related tasks when the R&I project identifies the standards useful for the project development as well as the standardization needs and potentials.

The development of a new CEN/CENELEC deliverable is initiated or proposed, if a technical requirement is not yet described in CEN/CENELEC deliverables published or under development.

To channel the new inputs to the state of the art gained by the R&I projects, different links with the standardization system can be established (see 2.3 and 2.4).

## 2.2 Direct participation of individual R&I actors in CEN/CENELEC Technical Bodies

Given the increasingly fast-paced evolution of new technologies, applications and approaches, the participation of research organizations like universities or technology institutes in CEN/CENELEC Technical Bodies – following the national delegation principle – has been usual and is more and more desirable to ensure the uptake of R&I results. In the same way, an increased involvement of innovation-related stakeholders like start-ups or Research, Development and Innovation Departments in Industry in existing or new Technical Bodies shall be promoted to link new developments in standardization with market needs.

Participants in Technical Bodies should promote and support this in their own organizations and networks, while CEN, CENELEC and their national members should raise awareness and encourage the engagement of these communities in standardization (see 3.1).

## 2.3 Partnership of R&I projects with CEN/CENELEC Technical Bodies

The 'Project Liaison' is a way of collaboration covered by CEN-CENELEC Guide 25 (The concept of Partnership with European Organizations and other stakeholders). Following that Guide, a Liaison can also be valuable when collaboration between an existing CEN/CENELEC Technical Body and a funded European R&I project is envisaged. In such cases, the Liaison Organization status is limited to the duration of the R&I project.

<https://standards.iteh.ai/catalog/standards/sist/e0027935-b178-4a74-be57-407061616161/sist-v-cen-clc-guide-23-2021>

The project in liaison is expected to provide high quality, added-value expertise in a defined technical field relevant for CEN and/or CENELEC Technical Bodies and to provide effective contributions through direct participation in their meetings. This collaboration can be focused on contributing to an ongoing work (drafting of EN, TS, TR), to the proposal of new ones or to the proposal for revising existing standardization deliverables.

The funded European R&I project requesting to participate in a CEN or CENELEC Body is granted the status of Liaison Organization through the appropriate procedures in accordance with the CEN/CENELEC Internal Regulations Part 2.

## 2.4 Interaction with R&I projects funded under European Framework Programmes

### 2.4.1 Information for projects

R&I projects increasingly contact Technical Bodies or other relevant CEN/CENELEC groups such as Sector Fora, Focus Groups and Coordination Groups, looking for feedback that can align their R&I works with the standardization workplans and needs.

Typical contributions from the Technical Bodies or aforementioned groups can be:

- the provision of written feedback (e.g. on the relation of the R&I topic with the Technical Body's workplan or the interest of the topic for future standardization works),
- inviting the project to a meeting, to get a more detailed information on the topic and discuss on the interest/potential for standardization, and/or
- the selective participation in events, workshops or round tables organized by the projects, or a longer-term participation in the Advisory Board of a project. This is typically suited to Chairpersons or Working Group Conveners, for instance.