

STN P	Usmernenie ako implementovať súbor EN ISO 19650 v Európe, najmä časti 1, 2, 3, 4 a 5	STN P CEN/TS 18113 73 9021
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Guidance on how to implement EN ISO 19650-series in Europe, in particular parts 1, 2, 3, 4 and 5.

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/25

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Guidance on how to implement EN ISO 19650-series in Europe, in particular parts 1, 2, 3, 4 and 5.

Document d'orientation pour la mise en œuvre de la
série de normes EN ISO 19650 en Europe, en
particulier les parties 1, 2, 3, 4 et 5

Anleitung zur Umsetzung der EN-ISO-19650-Reihe in
Europa, insbesondere der Teile 1, 2, 3, 4 und 5

This Technical Specification (CEN/TS) was approved by CEN on 25 November 2024 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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CEN/TS 18113:2024 (E)**European foreword**

This document (CEN/TS 18113:2024) has been prepared by Technical Committee CEN/TC 442 “Building Information Modelling (BIM)”, the secretariat of which is held by SN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document is intended to be a supporting document of the EN ISO 19650 series of standards in the form of a CEN implementation guidance. The aim is to create a common understanding of digital collaboration according to the EN ISO 19650 series of standards within the industry across Europe by fulfilling the following objectives:

- providing a framework appropriate and adaptable across Europe for implementation;
- delivering interpretation of the EN ISO 19650 series of standards for common and consistent understanding across Europe.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document is used as a supporting document to the original EN ISO 19650 series of standards. However, it has been prepared so that it can be read also as a standalone document to understand the principles of EN ISO 19650 series. It does not seek to duplicate, contradict, or extend the meaning of EN ISO 19650-1, EN ISO 19650-2, EN ISO 19650-3, EN ISO 19650-4 and EN ISO 19650-5.

This document helps to describe the journey to a robust digital collaboration based on the EN ISO 19650 series of standards, which are targeted at the whole built environment, infrastructure as well as buildings. It describes the key parts of the journey to establish a common understanding of digital collaboration. The description of how to achieve this is described in the EN ISO 19650 series of standards.

The EN ISO 19650 series of standards introduces new concepts and, defines new terms and items to consider, to promote the implementation of the information management process for assets and projects during the whole life cycle, including projects resulting in new or refurbished assets.

The principle of EN ISO 19650 series of standards is a pragmatic approach to allow all involved parties to collaborate on information management using building information modelling for projects and assets as efficiently as possible, as well as with high quality.

Applicability to projects and assets of all sizes and complexity:

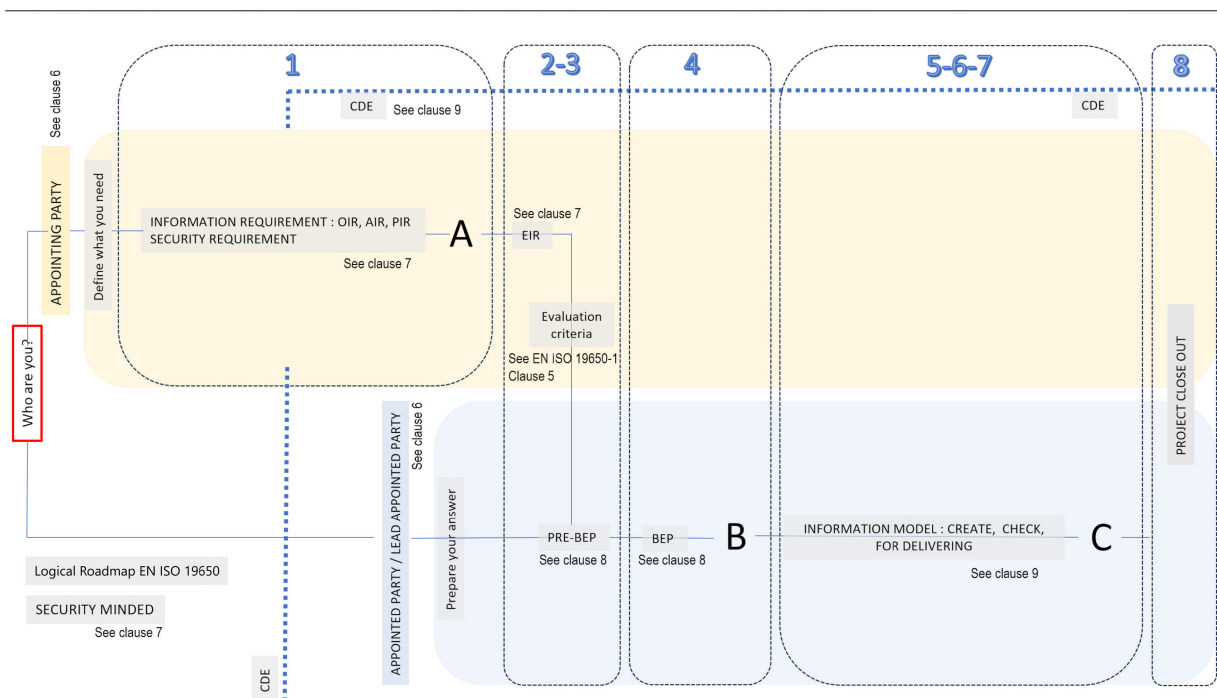
EN ISO 19650 series applies to all projects and assets regardless of their size or complexity.

EN ISO 19650-2 and EN ISO 19650-3 make wide use of the phrase “shall consider”, and it is also used in EN ISO 19650-4 and EN ISO 19650-5. This phrase is used to introduce a list of items to consider in connection with the primary requirement described in a clause. The amount of thought involved, the time taken to complete it, and the need for supporting evidence will depend on the complexity of the project or asset management activity, the experience of the person(s) involved, and the requirements of any national policy on introducing building information modelling (BIM). On a relatively small or straightforward project or asset management activity, it might be possible to complete, or dismiss as not relevant, some of these “shall consider” items very quickly.

One way to help identify which of the “shall consider” statements are relevant, might be to review each statement and create templates for projects or asset management activities of different sizes and complexity.

The first section (Clause 5) of this document provides a summary view of each part within the EN ISO 19650 series. The second section (Clauses 6, 7, 8, 9) delivers description of what the key elements of the EN ISO 19650 series standards are. The third section (Clause 10) explains the EN ISO 19650-2 to -5 processes, and Clause 11 gives some use cases of implementation in the European market.

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Key

- | | |
|---|---|
| <p>1 assessment and need</p> <p>2 invitation to tender</p> <p>3 tender response</p> <p>4 appointment</p> <p>5 mobilization</p> <p>6 collaborative production of information</p> <p>7 information model delivery</p> <p>8 project close-out</p> <p>A information management function (see Clause 7)</p> <p>project's information requirements (see EN ISO 19650-2:2018, Clause 5)</p> <p>project's information delivery milestones (see EN ISO 19650-2:2018, Clause 5)</p> <p>project's information standard (see EN ISO 19650-2:2018, Clause 5)</p> <p>project's information production methods and procedures (see EN ISO 19650-2:2018, Clause 5)</p> <p>project's reference information and shared resources (see EN ISO 19650-2:2018, Clause 5)</p> <p>project's common data environment (see Clause 7, Clause 9)</p> <p>project's information protocol (see EN ISO 19650-2:2018, Clause 5)</p> <p>level of information need (see EN ISO 7817-1, see Clause 8)</p> | <p>B CAPACITY, CAPABILITY (see EN ISO 19650-1:2018, Clause 5)</p> <p>MIDP, TIDP (see Clause 8)</p> <p>TASK INFORMATION REQUIREMENT (see Clause 7)</p> <p>FEDERATION STRATEGY (see Clause 9)</p> <p>C INFORMATION CONTAINER (see Clause 9)</p> <p>PIM (see Clause 9)</p> <p>AIM (see Clause 9)</p> <p>Mobilization (see EN ISO 19650-2:2018, Clause 5)</p> <p>Collaborative production of information (see Clause 7, Clause 9)</p> <p>Information model delivery (see Clause 7, Clause 8)</p> <p>LEVEL OF INFORMATION NEED, Methodology for defining an Information content (see EN ISO 7817-1, see Clause 8)</p> <p>EXCHANGE QUALITY, Criteria for reviewing an information exchange (see EN ISO 19650-4, see Clause 8)</p> |
|---|---|

Figure 1 —Global functional view: parties, appointments, teams, plans of works

1 Scope

The scope of this document is primarily focused on EN ISO 19650-1, EN ISO 19650-2, EN ISO 19650-3, EN ISO 19650-4 and EN ISO 19650-5. In the text these are referred to collectively as “the EN ISO 19650 series”. This document highlights and describes the way to use the standards, without extending or contradicting the scope and content. This document aims to provide supporting text to achieve a basic understanding and ability to implement the EN ISO 19650 series. In each country, each client and each delivery team can use this document to provide the best response to information management in each project or asset management activity.

This document explains the terms and definitions, concepts and principles and how to use them, and gives practical examples with clear explanations.

It should be noted that in this document, information management is considered as a part of project management, asset management and security management.

This document is intended to demonstrate how the EN ISO 19650 series works at the European level in a neutral way that is applicable to any project or asset regardless of:

- the nature of contracts, e.g. public, private, alliances, global, partnership;
- the actors' functions, e.g. through the programming, design, construction phases, regardless of organization size including SMEs;
- the diversity of tendering processes and commissioning practices, e.g. one main contractor (lead appointed party) on one client (as appointing party) vs. one client and multiple contracts with individual appointed parties;
- the types of works, e.g. new, refurbished, housing, infrastructure;
- the complexity of the project, asset, or activities.

2 Normative references

The following documents are referred to in the text in such a way that some or all their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 19650-1:2018, *Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 1: Concepts and principles (ISO 19650-1:2018)*

EN ISO 19650-2:2018, *Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 2: Delivery phase of the assets (ISO 19650-2:2018)*

EN ISO 19650-3:2020, *Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 3: Operational phase of the assets (ISO 19650-3:2020)*

EN ISO 19650-4:2022, *Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 4: Information exchange (ISO 19650-4:2022)*

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EN ISO 19650-5:2020, *Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling — Part 5: Security-minded approach to information management (ISO 19650-5:2020)*

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