

<b>TNI</b>	<b>Správa údajov a kvality pre AI v európskom kontexte</b>	<b>TNI CEN/CLC/TR 18115</b>  97 4198
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Data governance and quality for AI within the European context

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## Data governance and quality for AI within the European context

Gouvernance et qualité des données pour l'IA dans le  
contexte européen

Datenmanagement und -qualität für KI im  
europäischen Kontext

This Technical Report was approved by CEN on 30 September 2024. It has been drawn up by the Technical Committee CEN/CLC/JTC 21.

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**CEN/CLC/TR 18115:2024 (E)**

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**CEN/CLC/TR 18115:2024 (E)****European foreword**

This document (CEN/CLC/TR 18115:2024) has been prepared by Technical Committee CEN/JTC 21 “Artificial Intelligence”, the secretariat of which is held by DS.

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.

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.

## Introduction

This document aims to provide an overview of the relevant regulations in the European context and connected international standards, paying particular attention to data governance and data quality topics. Relevant regulations considered are:

- “Council of Europe” Ad hoc Committee on AI (CAI) that produced “Recommendation CM/Rec (2020) of the Committee of Ministers to member States on the human rights impact of algorithmic systems” and the deliverable “possible elements of a legal framework on Artificial Intelligence, based on the Council of Europe’s standards on human rights, democracy and the rules of law” (2021) [1].
- “European strategy for data” (2020), which is essential to govern new technologies and create business opportunities.
- “Artificial Intelligence Act” (2024), which aims to ensure that AI systems placed on the market and used in the EU are safe and respect fundamental rights. Attention is given specifically to:
  - Article 10 “Data and data governance” describing the quality criteria specifying aspects of training, validation and testing of data sets.
  - Article 15 “Accuracy, robustness, and cybersecurity” describing essential quality characteristics that can be extended to a general data quality model; consistency between terms and definitions is a common goal of this document, as well as of future TS and EN standards.
  - Articles where standard quality characteristics are mentioned (see Figure 5).
- “Data Governance Act” (2022) providing a framework aiming:
  - to increase trust in data sharing across areas;
  - to develop common European data spaces in strategic domains (e.g. health, environment, energy, agriculture, mobility, finance, manufacturing, public administration);
  - to strengthen mechanism to increase data availability and overcome technical obstacles to the reuse of data.
- “Data Act” (2023): key elements include the reinforced data portability and data sharing, rules governing the processing data shared, model contracts, access and use data held by private companies, data and cloud interoperability, databases containing data from IoT, restriction on data sharing.
- “Open data Directive” (EU 2019/1024): provides common rules for a European market for government-held data, including the re-use of public sector information.

In addition, Regulation (EU) 2016/679 of the European Parliament and the Council on the protection of natural persons about the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC – GDPR, it is also considered in this document. The General Data Protection Regulation – GDPR, entered into force on May 2016, creates a harmonized set of rules applicable to processing of all European personal data. The objective of GDPR is to ensure that personal data enjoys a high standard of protection everywhere in the EU, increasing legal certainty for both individuals and organizations proceeding data, and offering a higher degree of protection for individuals and their fundamental rights. According to ISO/IEC 22989 types of organizations are e.g. commercial enterprises, governments agencies, not-for-profit organizations. The objective of GDPR is to provide a

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consistent and high level of protection of natural persons regarding the processing of personal data and the free movement of such data and to remove the obstacles to the flow of personal data within the Union. In addition, GDPR ensures a common level of protection of the rights and freedoms of natural persons concerning the processing of such data all over the Member States, increasing legal certainty for both individuals and organizations proceeding with data and offering a higher degree of protection for individuals and their fundamental rights.

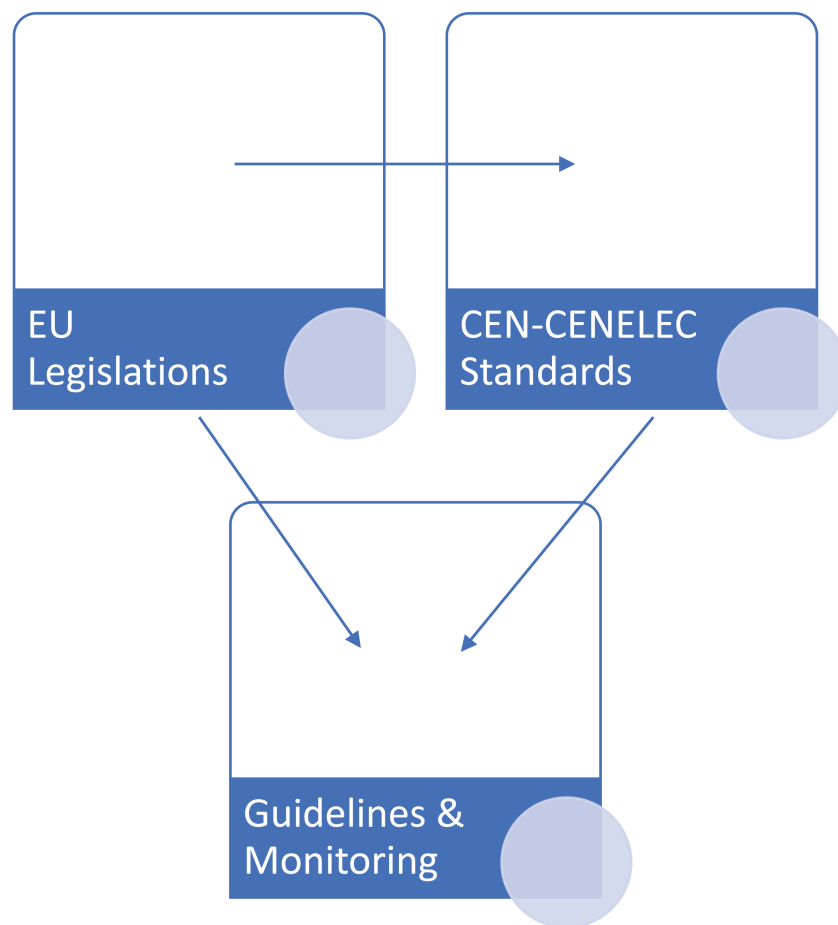
GDPR takes into consideration also the activity of processing personal data by Artificial Intelligence systems (see processing reported in 3.2.10), as we will see explaining characteristics of data quality containing specific requirements on this topic strongly related to some principles of GDPR and as can also be seen in some documents of the Council of Europe COE [1].

Another important aspect of quality underlined in this document it is related to accessibility for disabled users. In this case also we will describe the concepts explaining characteristics of data quality the value of accessibility, and understandability of data. The accessibility quality characteristic related to a European legislative regulation is a good example of governance of data that are obtained with a global vision by monitoring the activities in progress in each Country. A similar approach of governance, global and local, can be extended in the future to the large applications of AI, developing specific EN Standards or Technical specification.

Finally, some considerations on ethics are reported to reinforce some aspects related to data use.

The European Commission and the Member States put forward a 'Coordinated Plan on Artificial Intelligence' - COM (2018) 795 - with the stated goal of maximizing AI investments impact both at European and national levels and strengthening synergies and cooperation among Member States. To this end, Member States were strongly encouraged to develop their own national AI strategies (e.g. with Guidelines and monitoring specifications) to achieve these aims, in conformance with laws.





**Figure 1 — Connections of Legislations, Standards, Guidelines & Monitoring specifications**

EU AI Act and CEN-CENELEC JTC21 are harmonizing legislations and Standards. Guidelines & Monitoring can be developed by Member States / Companies: examples are quoted in Clause 9 and 12 of this TR. Following these perspectives, the goal of this document is promoting a complement to the overview of a common terminology and language on Artificial Intelligence to facilitate innovation, communications, coordination, planning and agreements between European countries, national visions, enterprises, projects and products realization oriented to quality and mitigating risks. For innovation management the approach taken in the ISO 56000 family can be considered. For social motivation and responsibility, ISO 26000 can contribute to sustain the inclusiveness and ethics principles.

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## 1 Scope

This document provides an overview on AI-related standards, with a focus on data and data life cycles, to organizations, agencies, enterprises, developers, universities, researchers, focus groups, users, and other stakeholders that are experiencing this era of digital transformation.

It describes links among the many international standards and regulations published or under development, with the aim of promoting a common language, a greater culture of quality, giving an information framework.

It addresses the following areas:

- data governance;
- data quality;
- elements for data, data sets properties to provide unbiased evaluation and information for testing.

## 2 Normative references

There are no normative references in this document.

**NOTE** For the application of this document: users and stakeholders can apply the standards listed depending on their context of use and in compliance with the laws.

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<sup>1</sup> ISO/IEC 22989:2022/AMD1 is under development.