



# AI ethics in European standardisation

**HSBooster Webinar**

**AI Standardisation: Challenges & Opportunities**

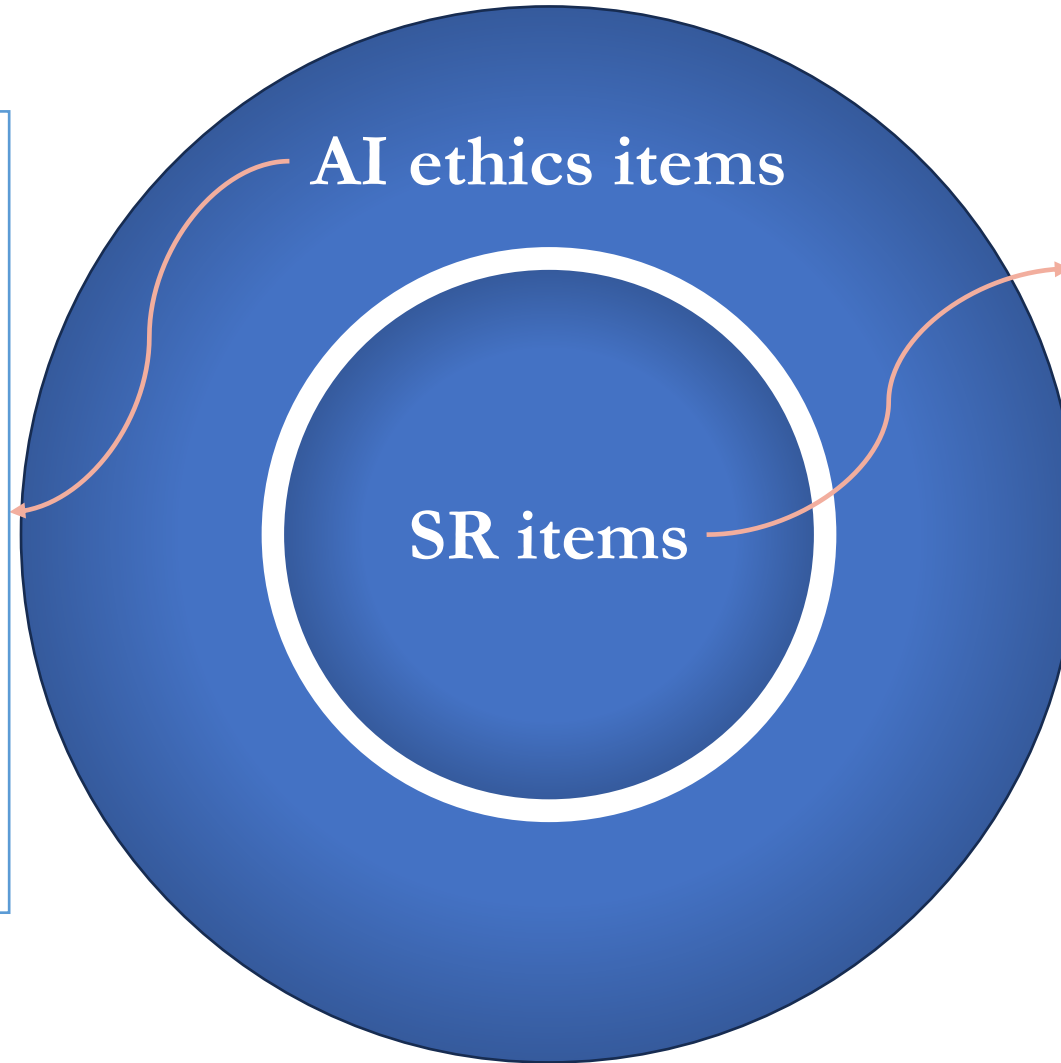
**Advancing Equity & Ethics in AI**

**July 4<sup>th</sup>, 2024**

# Ethics is everywhere in AI standards

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- Competence requirements for AI ethicists professionals
- Guidelines on tools for ethical aspects handling in AI systems life cycle
- Guidance for upskilling organisations on AI ethics and social concerns



- Trustworthiness framework
- AI risk management
- Bias & Datasets

# SR items

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**AI risk management** In support of SR, Annex I, 2.1

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- Need to consider potential risks to EU values and fundamental rights
- Provide mitigation measures to minimize these risks

**Trustworthiness framework** In support of SR, Annex I, cross-cutting several requirements

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- Consider ethical and societal concerns is crucial to build trust
- Design AI systems with specific characteristics (e.g., transparency)

**Bias & Dataset** In support of SR, Annex I, 2.2

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- Discrimination and unfairness are one of the most concerning risk
- Provide metrics and methods to detect and mitigate bias in training data

# Competence requirements for AI ethicists professionals

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**Current stage:** Working draft initiated  
(20.20)

**Next milestone:** Working draft  
Approved (20.99)

CEN/CENELEC JTC21 WG4 -  
Foundational and Societal Aspects

Liaison with CEN TC 428 - ICT  
professionalism and Digital  
competences



# Project highlights

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## Purpose

The proposal's purpose is to set up a standard that outlines the necessary competencies for individuals to professionally fulfill the role of AI ethicists. This is aimed at addressing the societal and market need for AI ethicists in light of the growing implications of artificial intelligence systems in various sectors.

## Justification

This proposal is justified by the increasing public attention and regulatory pressure over ethical and societal implications of AI systems. It aims to define a set of competencies for AI ethicists in order to reduce the risks associated with the lack of such well-defined set of competencies and foster business' trust and confidence in AI ethicists.

# Project highlights

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## Topics covered

The proposal aims at defining key terms related to AI ethics and the role of AI ethicists, detailing their tasks and missions, and outlining the necessary competencies. The proposal will also include use cases to demonstrate the applicability and benefits of the standard.

# Project highlights

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## **What is covered**

Defining competencies

Establishing common understanding of the fundamental concepts and principles inherent to the AI ethicist profession

Providing concrete applications of the framework developed in the standard

## **What is not covered**

Discussing what is ethically good or bad

Discussing what a business should or not do from an ethical point of view

Developing new ethical frameworks, principles, guidelines etc.



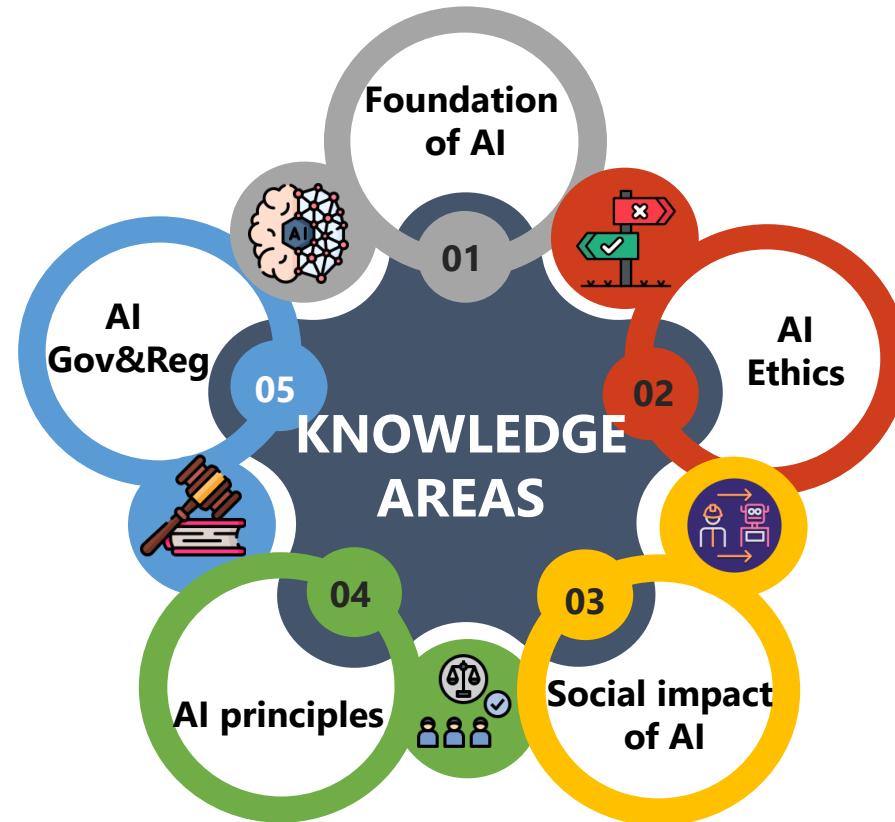
# Knowledge areas

## AI GOVERNANCE AND REGULATION

This category addresses the structures, policies, and rules that guide the creation and use of AI. Topics within this realm include the creation of regulatory bodies, the establishment of international standards for AI, compliance with international AI laws (e.g., AI Act), and the oversight mechanisms in place to ensure AI operates within defined boundaries.

## AI PRINCIPLES

This category pertains to the guiding principles of responsible development and application of AI as discussed in many AI ethics guidelines. These principles often cover aspects like transparency, safety, accountability, explainability, well-being, autonomy etc. This knowledge area assesses the understanding of these principles.



## FUNDATION OF AI

This category includes the fundamental technical and theoretical aspects of AI, the history of AI, main AI theories, and technical approaches such as machine learning, deep learning, natural language processing, etc.

## AI ETHICS

This category addresses the moral complexities and considerations inherent to the development and deployment of AI systems. It explores the philosophical underpinnings, theoretical challenges, and pragmatic dilemmas associated with creating ethically sound AI. Topics range from foundational ethical theories applied to AI, to best practices in designing ethical AI solutions, and the responsibilities of those working in the AI ethics domain.

## SOCIAL IMPACT OF AI

This category focuses on the broader societal consequences and transformations brought about by AI. It examines the effects of AI on the job market, social interactions, cultural dynamics, and other societal constructs. Additionally, it explores both the positive opportunities and challenges that AI presents to society at large.



# Thank you!

? Questions?

! Comments?



Alessio Tartaro  
a.tartaro@phd.uniss.it

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