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WP.6 - Horizontal Al Project Launch

OF THINGS.

• Title: "Regulatory compliance of Products with embedded Artificial intelligence or other Digital technologies"

Reach: Horizontally, across all four subgroups (GRM, GRS, MARS & START)

- Aims:
 1) <u>UN Recommendation</u> (ca. 3-5 pages) on "Product compliance with integrated Al and other digital technologies"
 - 2) <u>UN Guidance document</u> (ca. 40 pages) for <u>effective technical regulation</u>, regulatory impact assessment & regulatory cooperation
- Deliverables: Clear definition of Artificial intelligence within a product context
 - Clear definition of Software embedded into products
 - Whole **product lifecycle** consideration within digital regulation context incl. *Risk Management, Standards, Conformity assessment, Surveillance, Metrology*
 - Provide guidance how to balance the multitude of various regulatory objectives
 - Consider cross-sectoral impact assessments / horizontal digital frameworks

More information: https://unece.org/trade/wp6/Projects#accordion-4

16 March 2023 – UNECE GRM Group meeting



5 United Nations Economic Commission for Europe

International project team

UNECE WP.6 Representation

- International project working group
- From a large selection of different sectors
- With horizontal representation / reporting:
 - GRM
 - GRS
 - MARS
 - START
- Key areas of work















External expert(s)

Currently in preliminary conversations with Prof. Stuart Russell OBE
 (https://cs.berkeley.edu/news/2021/06/stuart-russell-named-officer-most-excellent-order-british-empire)

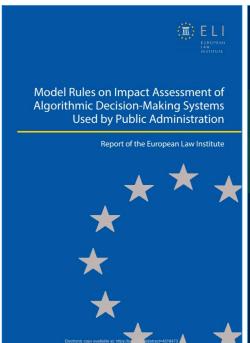
We will be identifying & reaching out to further experts as and when needed.

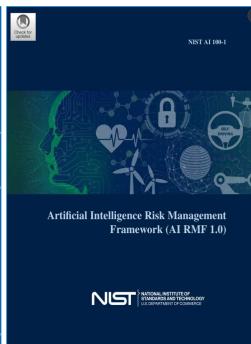


Key documents (links in appendix 1)









Plus

- ISO / IEC TR 24027 ("Bias in AI systems")
- ISO / IEC TR 24028 ("Trustworthiness of AI")



Appendix 1 – References

- REPORT: "Innovation, AI, Technical Regulation and Trade", Kommerskollegium National Board of Trade Sweden, Website accessed 16 March 2023, https://www.kommerskollegium.se/globalassets/publikationer/rapporter/2023/innovation-ai-technical-regulation-and-trade-short-version.pdf
- REPORT: "Study on the impact of artificial intelligence on Product safety" UK Office for Product Safety & Standards, Website accessed 16 March 2023, https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1077630/impact-of-ai-on-product-safety.pdf
- REPORT: "Al Risk Management Framework (Ai RMF 1.0)" US National Institute of Standards & Technology / Information Technology Laboratory, Website accessed 16 March 2023, https://doi.org/10.6028/NIST.AI.100-1
- REPORT: "Model Rules on Impact Assessment of Algorithmic Decision-Making Systems Used by Public Administration" European Law Institute, Website accessed 16 March 2023, https://www.europeanlawinstitute.eu/fileadmin/user_upload/p_eli/Publications/ELI_Model_Rules_on_Impact_Assessment_of_ADMSs_Used_by_Public_Administration.pdf
- TECHNICAL REPORT: "ISO/IEC TR 24027:2021 / Information technology Artificial intelligence (AI) Bias in AI systems and AI aided decision making", ISO, Website accessed 16 March 2023, https://www.iso.org/standard/77607.html
- TECHNICAL REPORT: ISO/IEC TR 24028:2020 / Information technology Artificial intelligence (AI) Overview of trustworthiness in artificial intelligence", ISO, Website accessed 16 March 2023, https://www.iso.org/standard/77607.html



Appendix 2 - Product risk stemming from AiNR-Tech



Al is an engineered system of a set of methods or automated entities that together build, optimize and apply a model so that the system can, for a given set of predefined tasks, compute predictions, recommend-dations, or decisions.

Source: https://www.iso.org/obp/ui/#iso:std:iso-iec:22989:dis:ed-1:v1:en:term:3.1.37



NeuroTechnology

Devices and procedures used to access, monitor, investigate, assess, manipulate, and/or emulate the structure and function of the neural systems of natural persons.

Source: OECD - Responsible Innovation in Neurotechnology



Robots are programmable machines that can carry out actions and interact with the environment via sensors and actuators either autonomously or semi-autonomously.

They can take many forms: disaster response robots, consumer robots, industrial robots, autonomous vehicles and drones.

Source: https://unctad.org/page/technology-and-innovation-report-2021



Appendix 3 – Scope comparison

UN / UNECE WP.6 - AI Project

☑ In scope: the compliance of products which integrate digital technologies such as artificial intelligence.

☑ Out of scope: how Al and other technologies can be used by administrations in regulatory processes.

UN / UNECE WP.6 - Working Group

"The work of UNECE WP.6 in the area of Risk Management aims at

- developing guidance and best practice (recommendations)
- on how regulatory authorities can establish regulatory frameworks
- which effectively manage the risks that confront consumers, citizens and communities."

Specifically, **UN / UNECE GRM** works on the following priorities:

- Risk Management in developing and implementing technical regulations
- Standards as risk management tools
- Risk Management in Conformity Assessment
- Risk Management in Market Surveillance
- Implementing the recommendations and best practice at country level
- Fostering the use of risk management tools in the context of the development and implementation of sustainable development and resilience to disasters (natural and man-made)

Source: https://unece.org/trade/wp6/thematic-areas/risk-management







Thank you.

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