The Work of the European Commission HLEG-AI





School of Computer Science & IT, University College Cork, Ireland Director, SFI Centre for Research Training in Artificial Intelligence Chair, Expert Group for Future Skills Needs (Committee on Al Skills) Chair, National Research Ethics Committee for Medical Devices Chair, Advisory Board, GRACE Project (Europol) Chair, Oversight Board, Health Data Research UK North Advisor, Al Watch, European Commission Joint Research Centre Vice Chair, European Commission High-Level Expert Group on Al (2018–2020) President, European Artificial Intelligence Association (2018–2020)

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Digital Single Market

LAW | 7 December 2018

Coordinated Plan on Artificial Intelligence

Communication from the Commission to the European Parliament, the European Council, the Council, the European Economic and Social Committee and the Committee of the Regions - Coordinated Plan on Artificial Intelligence (COM(2018) 795 final)



The High-level Expert Group on Artificial Intelligence will:



Advise on AI-related challenges & opportunities



Propose draft AI ethics guidelines Engage with members of the European AI Alliance







INDEPENDENT HIGH-LEVEL EXPERT GROUP ON **ARTIFICIAL INTELLIGENCE** SET UP BY THE EUROPEAN COMMISSION **POLICY AND INVESTMENT RECOMMENDATIONS** FOR **TRUSTWORTHY AI**

8th April 2019

26th June 2019



INDEPENDENT HIGH-LEVEL EXPERT GROUP ON ARTIFICIAL INTELLIGENCE SET UP BY THE EUROPEAN COMMISSION



ETHICS GUIDELINES FOR TRUSTWORTHY AI

Ethics Guidelines for Trustworthy Al

Lawful Ethical Robust

7 Requirements

Human autonomy and agency
 Technically robust and safe
 Privacy and data governance
 Transparency
 Diversity, non-discrimination and fairness
 Societal and environmental wellbeing
 Accountability

The 7 Key Requirements for Achieving Trustworthy AI

Human agency & oversight	Al systems should enable equitable societies by supporting human agency and fundamental rights , and not decrease, limit or misguide human autonomy .			
Robustness & safety	Trustworthy AI requires algorithms to be secure, reliable and robust enough to deal with errors or inconsistencies during all life cycle phases of AI systems.			
Privacy & data governance	Citizens should have full control over their own data , while data concerning them will not be used to harm or discriminate against them.			
Transparency	The traceability of AI systems should be ensured.			
Diversity, non- discrimination & fairness	AI systems should consider the whole range of human abilities , skills and requirements , and ensure accessibility .			
Societal & environmental well-being	Al systems should be used to enhance positive social change and enhance sustainability and ecological responsibility .			
Accountability	Mechanisms should be put in place to ensure responsibility and accountability for AI systems and their outcomes.			

Trustworthy AI and the GDPR (CIPL)						
Human agency and oversight	Transparency (art. 13&14) / ADM (art. 22), Right to obtain human intervention (art. 22(3)) / Risk assessment and DPIA (art. 35)					
Robustness and safety	Security (art. 32) / Risk Assessment and DPIA (art. 35) / Data accuracy (art. 5(1)(5))					
Privacy and data governance	Data protection principles (art. 5) and Accountability (art. 24(3)) / Transparency (art. 13&14) / Consent (art. 7) / Security (art. 32) / DPO (art. 37&38) / Processor due diligence (art. 28(1))					
Transparency	Transparency (art. 13&14) / ADM (art. 22)					
Diversity, non-discrimination and fairness	Fairness Data Protection Principle (art. 5.1(a)) / Risk assessment and DPIA (art. 35) / Right to Information on ADM and logic involved (art. 15(1)(h))					
Societal and environmental well-being	Risk Assessment and DPIA (art. 35) / Transparency (art. 13&14)					
Accountability	Accountability (art. 5(2) & 24(3)) / Risk Assessment and DPIA (art. 35) / Processor due diligence (art. 28(1))					

Home

The Assessment List for Trustworthy Artificial Intelligence

This website contains the Assessment List for Trustworthy AI (ALTAI). ALTAI was developed by the High-Level Expert Group on Artificial Intelligence set up by the European Commission to help assess whether the AI system that is being developed, deployed, procured or used, complies with the seven requirements of Trustworthy AI, as specified in our Ethics Guidelines for Trustworthy AI.

- 1. Human Agency and Oversight.
- 2. Technical Robustness and Safety.
- 3. Privacy and Data Governance.
- 4. Transparency.
- 5. Diversity, Non-discrimination and Fairness.
- 6. Societal and Environmental Well-being.
- 7. Accountability.

Goal and purpose of ALTAI

ALTAI aims to provide a basis evaluation process for Trustworthy AI self-evaluation. Organisations can draw elements relevant to the particular AI system from ALTAI or add elements to it as they see fit, taking into consideration the sector they operate in. It helps organisations understand what Trustworthy AI is, in particular what risks an AI system might generate. It raises awareness of the potential impact of AI on society, the environment, consumers, workers and citizens (in particular children and people belonging to marginalized groups). It promotes involvement of all relevant stakeholders (within as well as outside of your organisation). It helps gain insight on whether

http://altai.insight-centre.org



ARTIFICIAL INTELLIGENCE SET UP BY THE EUROPEAN COMMISSION

POLICY AND INVESTMENT RECOMMENDATIONS

FOR TRUSTWORTHY AI

Impacts: Using Trustworthy AI for a Positive Impact on Europe

Empowering & Protecting Humans & Society	 Empower humans by increasing knowledge and awareness of AI Protect the integrity of humans, society and the environment Promote a human-centric approach to AI at work Leave no one behind Measure and monitor the societal impact of AI
Transforming Europe's Private Sector	 Boost the uptake of AI technology and services across sectors in Europe Foster and scale AI solutions by enabling innovation and promoting technology transfer Establish public-private partnerships to foster sectoral AI ecosystems
Europe's Public Sector as a Catalyst of Sustainable Growth & Innovation	 Provide human-centric AI-based services for individuals Approach the Government as a Platform, catalysing AI development in Europe Make strategic use of public procurement to fund innovation and ensure trustworthy AI Safeguard fundamental rights in AI-based public services and protect societal infrastructures
Ensuring World-Class Research Capabilities	 Develop and maintain European strategic AI research roadmap Increase and streamline funding for fundamental and purpose-driven research Expand AI research capacity in Europe by developing, retaining and acquiring AI researchers Build a world-class European research capacity

Enablers: Leveraging Europe's Enablers for Trustworthy AI

Building Data & Infrastructure for Al	 Support AI infrastructures across Member States Develop legally compliant and ethical data management and sharing initiatives in Europe Support European leadership in the development of an AI infrastructure Develop and support AI-specific cybersecurity infrastructures 			
Generating appropriate Skills & Education for AI	 21. Redesign education systems from pre-school to higher education 22. Develop and retain talent in European higher education systems 23. Increase the proportion of women in science and technology 24. Upskill and reskill the current workforce 25. Create stakeholder awareness and decision support for skilling policies 			
Establishing an appropriate governance & regulatory framework	 26. Ensure appropriate policy-making based on a risk-based and multi-stakeholder approach 27. Evaluate and potentially revise EU laws, starting with the most relevant legal domains 28. Consider the need for new regulation to ensure adequate protection from adverse impacts 29. Consider whether existing institutional structures, competences and capacities need revision to ensure proportionate and effective protection 30. Establish governance mechanisms for a Single Market for Trustworthy AI in Europe 			
Raising Funding & Investment	 31. Ensure adequate funding for the recommendations put forward in this document 32. Address the investment challenges of the market 33. Enable an open and lucrative climate of investment that rewards Trustworthy AI 			



In my first 100 days in office, I will put forward legislation for a coordinated European approach on the human and ethical implications of Artificial Intelligence.

This should also look at how we can use big data for innovations that create wealth for our societies and our businesses.

I will make sure that we prioritise investments in Artificial Intelligence, both through the Multiannual Financial Framework and through the increased use of public-private partnerships."

- Ursula von de Leyen





Home > Publications > White Paper on Artificial Intelligence: a European approach to excellence and trust

WHITE PAPER

White Paper on Artificial Intelligence: a European approach to excellence and trust

First published on

19 February 2020

Files



White Paper on Artificial Intelligence: a European approach to excellence and trust

19 February 2020

English (939.4 KB - PDF)

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POLICY AND LEGISLATION

Proposal for a Regulation laying down harmonised rules on artificial intelligence (Artificial Intelligence Act)

The Commission is proposing the first ever legal framework on AI, which addresses the risks of AI and positions Europe to play a leading role globally.

https://ec.europa.eu/newsroom/dae/redirection/item/709090

See also

Communication on Fostering a European approach to Artificial Intelligence



Shaping Europe's digital future

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POLICY AND LEGISLATION

Coordinated Plan on Artificial Intelligence 2021 Review

The 2021 Coordinated Plan on Artificial Intelligence (AI) is the next step in creating EU global leadership in trustworthy AI. It builds on the strong collaboration between the Commission and Member States established during the 2018 Coordinated Plan.

https://ec.europa.eu/newsroom/dae/redirection/item/709091

See also

Communication on Fostering a European approach to Artificial Intelligence

Polated topics

The Work of the European Commission HLEG-AI





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