



Reports and Guidelines (EU-UNESCO-OCDE)

In defining the objectives of the AI4T project, the project promoters drew on a range of reports and contributions from different institutions. Those documents are presented below. The publications are organised by issuing institutions. If there have been any updates or new developments since 2020 when the project was written, these have also been listed on this page.

European Union Publication

About AI & Education

Digital Education Action Plan

2018: Communication From The Commission To The European Parliament, The Council, The European Economic And Social Committee And The Committee Of The Regions on the Digital Education Action Plan¹

2021-2027: Digital Education Action plan²

About Artificial Intelligence

2020: White Paper On Artificial Intelligence - A European approach to excellence and trust³

On going: Regulatory framework proposal on artificial intelligence⁴

"The proposed AI regulation ensures that Europeans can trust what AI has to offer. While most AI systems pose limited to no risk and can contribute to solving many societal challenges, certain AI systems create risks that we must address to avoid undesirable outcomes."

Notable content: This Regulatory Framework defines 4 levels of risk in AI:

- 1 - Unacceptable risk
- 2 - High risk
- 3 - Limited risk
- 4 - Minimal or no risk

Educational or vocational training are assessed as **2 - High risk** "as that may determine the access to education and professional course of someone's life (e.g. scoring of exams)."

The Joint Research Centre - JRC⁵



The European Commission's science and knowledge service, providing scientific evidence throughout the whole policy cycle.

PUBLICATIONS

2019: The impact of AI on learning teaching and education⁶: a report that *"describes the current state of the art in artificial intelligence (AI) and its potential impact for learning, teaching, and education. It provides conceptual foundations for well-informed policy-oriented work, research, and forward-looking activities that address the opportunities and challenges created by recent developments in AI. The report is aimed for policy developers, but it also makes contributions that are of interest for AI technology developers and researchers studying the impact of AI on economy, society, and the future of education and learning."*

2020: Emerging technologies and the teaching profession ⁷ - Ethical and pedagogical considerations based on near-future scenarios.

"The aim of the scenarios is to see the future as something to shape. These near-future scenarios aim to solve a number of problems that educators of today say prevent them from delivering quality education and training. They take place in classrooms, lecture halls, training centres and digital learning environments in which emerging technologies could be used to support educators in their profession. Key challenges emerging from the scenarios relate to ethical considerations (e.g. balance between human autonomy and machines, datafication of education, pedagogical models) and the evolving competence requirements of teaching professionals."

2020: AI Watch - Defining Artificial intelligence⁸

A proposal for *"an operational definition of artificial intelligence to be adopted in the context of AI Watch."*

Notable content: *"A valuable contribution of this work is the collection of definitions developed between 1955 and 2019, and the summarisation of the main features of the concept of artificial intelligence as reflected in the relevant literature."*

2021 (new release): AI watch - Defining Artificial intelligence 2.0⁹

"The second edition (to) establish an operational definition of artificial intelligence (AI)."

Notable content: *"These include the classification of AI according to: families of algorithms and the theoretical models behind them; cognitive abilities reproduced by AI; functions performed by AI. Applications of AI may be grouped also according to other dimensions, like the economic sector in which such applications are found, or their business functions."*

High-level Expert Group on Artificial Intelligence

"A group of experts to provide advice on its artificial intelligence strategy appointed by the European Commission."

2018: A Definition Of AI: Main Capabilities And Disciplines¹⁰



2019: Ethics guidelines for trustworthy AI¹¹

Those guidelines gave way to ALTAI: The Assessment List for Trustworthy Artificial Intelligence¹², *"a practical tool that helps businesses and organisations to self-assess the trustworthiness of their AI systems under development."*

UNESCO - United Nations Educational, Scientific and Cultural Organisation

"UNESCO is committed to harness the potential of AI technologies for achieving the Education 2030 Agenda, while ensuring that its application in educational contexts is guided by the core principles of inclusion and equity."

Education and artificial intelligence¹³

The Unesco website in the section devoted to AI and Education

2019: Beijing Consensus on Artificial Intelligence and Education¹⁴

2021: AI and education: guidance for policy-makers¹⁵

2021: Recommendation on the Ethics of Artificial Intelligence¹⁶

UNESCO IITE¹⁷ - Institute for Information Technologies in Education

"The mission of IITE is to promote the innovative use of ICT and serving as facilitator and enabler for achieving Sustainable Development Goal 4 (SDG 4) through ICT-enabled solutions and best practices."

It published many report on AI including:

2020: AI in Education: Change at the Speed of Learning¹⁸

OECD - Organisation for Economic Co-operation and Development

OECD is an *"international organisation that works to build better policies for better lives"*. Its « goal is to shape policies that foster prosperity, equality, opportunity and well-being for all."

The OECD Artificial Intelligence¹⁹: *"Provides data and multi-disciplinary analysis on artificial intelligence."* Its *"diverse global community of partners makes this platform a unique source of information and dialogue on AI."*

The OECD leads many activities around AI. These activities range from: prospective analysis of the effects of AI on the labour market²⁰ to recommendations for developing trustworthy AI²¹.



The site also offers a large amount of monitoring work on AI and all areas of public policy around the world²²

Education: many reports and datasets related to education are gathered by the OECD. It also provides the possibility to visualise "*timely trends about where, how and at what rate AI is being developed and used*" in Education²³.

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1. <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52018DC0022&from=EN> ↩
 2. <https://education.ec.europa.eu/focus-topics/digital-education/action-plan> ↩
 3. https://ec.europa.eu/info/sites/default/files/commission-white-paper-artificial-intelligence-feb2020_en.pdf ↩
 4. <https://digital-strategy.ec.europa.eu/en/policies/regulatory-framework-ai> ↩
 5. <https://op.europa.eu/en/publication-detail/-/publication/5cb8eee3-e888-11e8-b690-01aa75ed71a1/language-en> ↩
 6. <https://op.europa.eu/en/publication-detail/-/publication/5cb8eee3-e888-11e8-b690-01aa75ed71a1/language-en> ↩
 7. <https://publications.jrc.ec.europa.eu/repository/handle/JRC120183> ↩
 8. <https://publications.jrc.ec.europa.eu/repository/handle/JRC118163> ↩
 9. <https://publications.jrc.ec.europa.eu/repository/handle/JRC126426> ↩
 10. https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=60651 ↩
 11. <https://digital-strategy.ec.europa.eu/en/library/ethics-guidelines-trustworthy-ai> ↩
 12. <https://futurium.ec.europa.eu/en/european-ai-alliance/pages/welcome-altai-portal> ↩
 13. <https://futurium.ec.europa.eu/en/european-ai-alliance/pages/welcome-altai-portal> ↩
 14. <https://unesdoc.unesco.org/ark:/48223/pf0000368303> ↩
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 17. <https://iite.unesco.org> ↩
 18. <https://iite.unesco.org/publications/ai-in-education-change-at-the-speed-of-learning/> ↩
 19. <https://oecd.ai/en/> ↩
 20. <https://oecd.ai/en/work-innovation-productivity-skills/key-themes/labour-markets> ↩
 21. <https://oecd.ai/en/ai-principles> ↩
 22. <https://oecd.ai/en/data?selectedArea=ai-news> ↩
 23. <https://oecd.ai/en/data?selectedArea=ai-education> ↩