

Preparing teachers for the AI Development in Education as an Innovative Asset

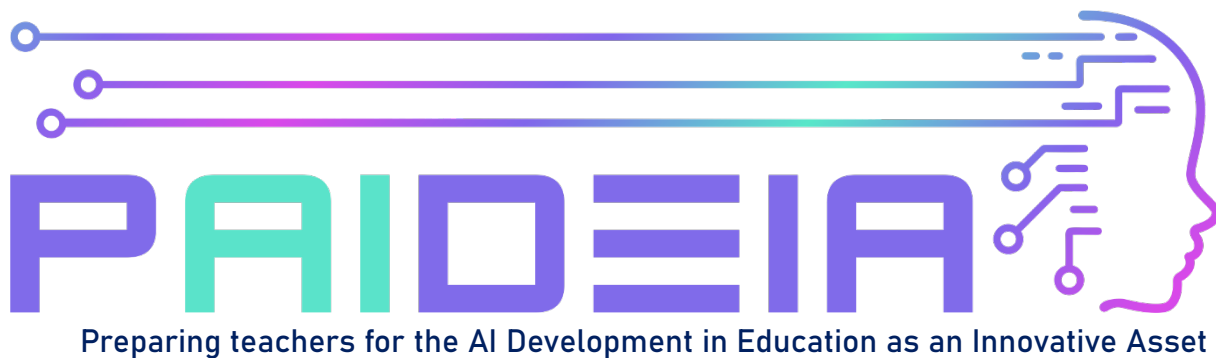


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Report on National Policies and Strategies for AI in Education

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The PAIDEIA Project is a groundbreaking initiative funded by the European Commission through the European Agency for Education and Culture (EACEA). Our mission is to revolutionize education by integrating Artificial Intelligence (AI) into teaching and learning, empowering educators, and enhancing student outcomes.

CONSORTIUM

FONDAZIONE HALLGARTEN FRANCHETTI CENTRO STUDI VILLA MONTESCA, an Italian high education research center, coordinates PAIDEIA project. It has been historically founded in 1902 (then institutionally renewed) in the place where the Montessori method was experimented and published for the first time in 1909. It has an international vocation in educative and pedagogic research activities and has a very relevant experience in EU projects management and development. FCSVM has strong partnership with schools and other educational organizations, as well as a solid background in research-actions activities, fostering critical thinking, diversity as a value and innovation from the pedagogical and didactic point of view.

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1. INTRODUCTION

This document provides a structured register of national policies and strategies related to artificial intelligence in education. It consolidates official sources from EU member states and selected international partners, focusing on curriculum integration, teacher training, digital skills development, and ethical AI use. The register supports comparative analysis and policy alignment under the PAIDEIA project, contributing to evidence-based planning for AI readiness in education systems.

2. BELGIUM

Belgium’s approach to artificial intelligence in education is thoughtful and multi-layered. At the regional level, Flanders leads with “Verantwoorde AI in het Vlaamse Onderwijs” (2024), a collaborative initiative that provides schools with ethical and pedagogical guidance on how to use AI responsibly. At the national level, the AI4Belgium Strategy Report (2020) emphasizes the importance of equipping citizens with digital and AI-related skills through both formal education and lifelong learning. Building on this, the National Convergence Plan for the Development of Artificial Intelligence (2021) outlines a coordinated federal vision for integrating AI across public services, with education identified as a key area for fostering digital and AI competencies. Together, these documents push AI as a tool for empowerment for educators and classrooms across the country.

Policy	Issuer	Date	Relation to AI	Link
Verantwoorde AI in Het Vlaamse Onderwijs: Een Collaboratief Proces Van Ontwikkeling Tot Gebruik	Department of Education and Training. Knowledge Centre Digisprong.	2024	Provides ethical and pedagogical guidance for AI use in Flemish education	https://publicaties.vlaanderen.be/view-file/67479
AI4Belgium strategy report	AI4Belgium Coalition / Belgian Federal Government	2020	National AI strategy emphasizing skills development, education, and responsible AI use in public services	https://ai-watch.ec.europa.eu/countries/belgium/belgium-ai-strategy-report_en AI4Belgium BOSA
National convergence plan for the development of artificial intelligence	Federal Public Service BOSA (Digital Transformation Office)	2021	Strategic plan to integrate AI across sectors including public administration and education	https://bosa.belgium.be/en/themes/digital-administration/digital-strategy-and-policy/national-convergence-plan-development

3.BULGARIA

Bulgaria has taken a comprehensive and forward-looking approach to integrating artificial intelligence into its education system. The 2024 guidelines issued by the Ministry of Education and Science provide a national framework for the ethical and effective use of AI in schools, ensuring that educators are equipped to navigate emerging technologies responsibly. This is supported by broader national strategies such as the National Development Program BULGARIA 2030 and the Digital Transformation Strategy 2020–2030, both of which emphasize the importance of digital skills and AI integration across sectors, including education. The Concept of Development of Artificial Intelligence in Bulgaria by 2030 outlines the country's long-term vision for AI, highlighting education and research as key pillars. Complementing these are the Innovation Strategy for Smart Specialisation 2021–2027, which promotes AI-driven growth in sectors like ICT and education, and the National Programme for Increasing Digital Skills of Teachers and Students, which focuses on building foundational digital and AI competencies in the classroom.

Policy	Issuer	Date	Relation to AI	Link
Bulgarian Ministry of Education guidelines for the use of AI in the education system	Ministry of Education and Science	2024	National guidelines for ethical and effective AI use in schools	https://aclanthology.org/2024.cliv-1.15.pdf
National Development Program BULGARIA 2030	Ministry of Finance	2020	Includes digital transformation and education priorities	https://www.mtc.government.bg/sites/default/files/nationaldevelopmentprogrammebulgaria2030-en.pdf
Concept of Development of Artificial Intelligence in Bulgaria by 2030	Ministry of Transport, Information Technology and Communications	2020	National AI strategy with education and research focus	http://afyonluoglu.org/PublicWebFiles/Reports/AI/National/National%20AI%20Plan-Bulgaria.pdf
National Strategic Document with vision and goals of the policy for Digital Transformation 2020-2030	Ministry of Transport and Communications. Government of Bulgaria	2020	Outlines Bulgaria's digital transformation goals; includes AI integration and digital skills development	https://www.mtict.government.bg/sites/default/files/digital_transformation_of_bulgaria_for_the_period_2020-2030_f.pdf
Innovation Strategy for Smart Specialisation of the Republic of Bulgaria 2021-2027	Ministry of Innovation and Growth. Government of Bulgaria	2021	Supports AI-driven innovation in sectors like ICT, mechatronics, and education	https://www.mig.government.bg/wp-content/uploads/2022/12/isis-2021-2027.pdf
National Programme for increasing digital skills of teachers and students	Ministry of Education and Science. Government of Bulgaria	2021	Focuses on digital literacy and foundational AI readiness in the education system	https://digitalalliance.bg/en/strategic-framework-for-the-development-of-education-training-and-learning-in-the-republic-of-bulgaria-2021-2030/

4. IRELAND

Ireland's approach to artificial intelligence in education is guided by a mix of national strategy, expert advice, and sector-specific initiatives. The AI – Here for Good Strategy (2021) sets the foundation, emphasizing ethical AI, innovation, and the development of digital skills across society, with education playing a central role. Building on this, the Guidance on the Use of Artificial Intelligence in Schools (2025) offers practical support for teachers and school leaders, helping them navigate AI tools responsibly in the classroom. The Digital Strategy for Schools to 2027 outlines broader goals for embedding digital technologies in teaching and learning, including AI readiness and infrastructure. Expert input from the AI Advisory Council's 2023 paper reinforces the importance of integrating AI into STEM education and teacher training. At the university level, the Artificial Intelligence in Irish Higher Education (2025) initiative provides a centralized hub for policy, ethics, and best practices around generative AI.

Policy	Issuer	Date	Relation to AI	Link
AI - Here for Good: A National Artificial Intelligence Strategy for Ireland (2021)	Department of Enterprise, Trade, and Employment. Government of Ireland	2021	National AI strategy focused on ethical AI, education, skills development, and innovation	https://enterprise.gov.ie/en/publications/publication-files/national-ai-strategy.pdf
Guidance On the Use of Artificial Intelligence in Schools	Department of Education and Youth	2025	Offers practical and ethical guidance for teachers and school leaders on using AI in classrooms	https://www.gov.ie/en/department-of-education/press-releases/minister-mcentee-welcomes-new-national-guidance-on-the-use-of-ai-in-schools/
Digital Strategy for Schools To 2027	Department of Education and Skills	2022	Sets out objectives for embedding digital technologies in teaching and learning, including AI readiness	https://digital-skills-jobs.europa.eu/en/actions/national-initiatives/national-strategies/ireland-digital-strategy-schools-2027
AI Advisory Council Advice Paper on Education	AI Advisory Council, Government of Ireland	2023	Provides expert recommendations on integrating AI into Ireland's education system, especially STEM and teacher training	https://enterprise.gov.ie/en/publications/publication-files/ai-advisory-council-ai-on-education-paper.pdf
Artificial Intelligence in Irish Higher Education	National Forum for the Enhancement of Teaching and Learning in Higher Education	2025	Centralized resource hub for generative AI policy, ethics, and teaching practices in universities	https://hub.teachingandlearning.ie/genai/

5. ITALY

Since 2024, the Italian government has adopted a renewed national framework for artificial intelligence (AI) through the Strategia Italiana per l'Intelligenza Artificiale 2024-2026 (Italian Strategy for Artificial Intelligence 2024-2026) drafted by the Agency for Digital Italy (AgID) with the support of a committee of experts — that defines strategic actions organized into four macro-areas: Research, Public Administration, Business, and Training.

In the area of 'Training', the strategy aims to strengthen digital and AI skills at multiple levels: from secondary education (including through the introduction of AI courses in technical colleges and initiatives to encourage young people and girls to access AI-related disciplines) to university, with the aim of including credits, courses, and Bachelor's, Master's, and PhD programs in the field of AI.

In addition to formal education, the strategy also focuses on AI literacy and continuing education: the goal is to promote AI education not only for students, but also for workers and citizens—with a particular focus on social cohesion and inclusion, to prevent the spread of AI from widening the knowledge gap.

More concretely, from the 2024/25 school year the Ministero dell'Istruzione e del Merito (MIM) launched a pilot initiative — AI in Primary and Secondary Education — involving selected schools in different regions, aiming to introduce AI tools for personalized learning and to enhance digital competencies of both students and teachers. Overall, the Italian national AI strategy reflects a commitment to harness AI as a lever for innovation and modernization of the education system, while also ensuring that its integration aligns with ethical, inclusive and equitable values.

In 2025, with Ministerial Decree 166/2025 issued by the Ministry of Education and Merit (MIM), the first national guidelines for the introduction of AI in schools were published: the decree establishes principles for the responsible use of AI in teaching, defines criteria for administrators, teachers, students, and families, and provides for the mapping of ongoing experiments in Italian schools. In summary, Italy's National AI Strategy demonstrates the government's commitment to using artificial intelligence as a tool for innovation in the education system, promoting digital skills, university courses, widespread literacy, and regulation—within a framework that aims to be ethical, inclusive, and sustainable.

Policy	Issuer	Date	Relation to AI	Link
Italian Strategy for Artificial Intelligence 2024 2026	Agenzia per l'Italia Digitale (AgID) Agency for Digital Italy/ Italian Government	22/07/2024	Updated national strategy that includes “Training” as one of the four macro-areas (alongside Research, Public Administration and Business). It provides for measures relating to formal education, digital/AI literacy, upskilling and AI education at various levels.	https://www.agid.gov.it/sites/agid/files/2024-07/Strategia_italiana_per_l%27Intelligenza_artificiale_2024-2026.pdf
Guidelines for the introduction of Artificial Intelligence in educational institutions (annex to Ministerial Decree 166/2025)	Ministero dell'Istruzione e del Merito (MIM) Ministry of Education	9/08/2025 (publication 29/08/2025)	Operational guidelines for the informed and safe adoption of AI-based tools in schools aim to regulate the educational use of AI, enhance digital potential, and ensure ethical criteria, privacy, security, and innovation.	official page of the MIM, Artificial Intelligence / “News” section
Three-years ICT Plan for Public Administration 2024-2026 (partly related to AI)	Government / AgID / Department for Digital Transformation	2024 (update 2024–2026)	Although it does not specify only school education, it includes the use of AI in public administration and defines environments for experimentation and development of AI — a context that can indirectly influence training, educational services and the digitization of the school/institutional system.	Document available at docs.italia.it, section “ICT & AI for the Public Administration”/ “ICT & IA per la PA”

6. MALTA

Malta’s commitment to integrating artificial intelligence into education is reflected across a series of strategic national documents. The Digital Education Strategy 2025–2030, led by the Ministry for Education, Sport, Youth, Research and Innovation, lays out a forward-thinking framework for transforming teaching and learning through digital tools, with AI playing a key role in personalization and innovation. This builds on the National Education Strategy 2024–2030, which sets broader goals for reforming the education system, including preparing students and educators for an AI-enabled future. At the national level, the Ultimate AI Launchpad Strategy (2019) positions Malta as a global leader in ethical and inclusive AI development, with education identified as a foundational pillar. Supporting these ambitions, the National eSkills Strategy 2022–2025 focuses on equipping both students and the workforce with the digital and AI competencies needed to thrive in a rapidly evolving technological landscape.

Policy	Issuer	Date	Relation to AI	Link
Digital Education Strategy 2025–2030	Ministry of Education, Sport, Youth, Research & Innovation (MEYR)	2025	Strategic framework for digital transformation in education; includes AI integration	https://education.gov.mt/wp-content/uploads/2025/03/NS_DDLTS-25_Eng-NOBLEED.pdf
National Education Strategy 2024–2030	Ministry of Education, Sport, Youth, Research & Innovation (MEYR)	2024	Comprehensive education reform plan; includes digital and AI-readiness goals	https://education.gov.mt/wp-content/uploads/2023/12/NATIONAL-EDUCATION-BOOKLET-DEC-2023-2030.pdf
Malta: The Ultimate AI Launchpad – A Strategy and Vision for Artificial Intelligence in Malta 2030	Parliamentary Secretariat for Financial Services, Digital Economy and Innovation. Government of Malta	2019	National AI strategy with pillars on education, ethics, and infrastructure	https://mdia.gov.mt/national-strategies/malta-ai-strategy-and-vision/
National eSkills Strategy 2022–2025	Ministry of Economy, European Funds and Lands. Government of Malta	2022	Focuses on digital and AI skills development across education and workforce	https://digitalskills.mdia.gov.mt/strategy/malta-national-eskills-strategy-2022-2025/

7. SPAIN

Spain has developed a robust framework for integrating artificial intelligence into its education system, anchored by both national and regional strategies. The National Strategy for Artificial Intelligence (2020) laid the foundation, emphasizing the role of education, research, and ethical principles in shaping Spain's AI ecosystem. Building on this, the Estrategia de Inteligencia Artificial 2024 updates and expands the national vision, placing a stronger focus on digital transformation, responsible AI use, and the development of digital skills across all levels of education. At the regional level, the Generalitat de Catalunya's 2024 guidance offers practical and ethical recommendations for the use of AI in schools, helping educators navigate the opportunities and challenges of emerging technologies.

Policy	Issuer	Date	Relation to AI	Link
Estrategia de Inteligencia Artificial 2024	Gobierno de España	2024	Updated national AI strategy with emphasis on education, ethics, and digital transformation	https://portal.mineco.gob.es/es-es/digitalizacionIA/Documentos/Estrategia_IA_2024.pdf
National Strategy for Artificial Intelligence	Gobierno de España / Secretary of State for Digitalization and AI (SEDIA)	2020	Original national AI strategy including education, research, and ethical principles	https://portal.mineco.gob.es/RecursosArticulo/mineco/ministerio/ficheros/National-Strategy-on-AI.pdf
La Intel·ligència Artificial En L'Educació: Orientacions i Recomanacions	Generalitat de Catalunya, Departament d'Educació	2024	Regional guidelines for ethical and pedagogical use of AI in schools	https://educacio.gencat.cat/web/.content/home/departament/publicacions/monografies/intel·ligencia-artificial-educacio/ia-educacio.pdf
Estrategia de Inteligencia Artificial 2024	Gobierno de España	2024	Updated national AI strategy with emphasis on education, ethics, and digital transformation	https://portal.mineco.gob.es/es-es/digitalizacionIA/Documentos/Estrategia_IA_2024.pdf
National Strategy for Artificial Intelligence	Gobierno de España / Secretary of State for Digitalization and AI (SEDIA)	2020	Original national AI strategy including education, research, and ethical principles	https://portal.mineco.gob.es/RecursosArticulo/mineco/ministerio/ficheros/National-Strategy-on-AI.pdf

8. TURKEY

Türkiye's vision for artificial intelligence in education is anchored by two key national strategies. The Turkish National Artificial Intelligence Strategy 2021–2025, developed by the Digital Transformation Office and the Ministry of Industry and Technology, outlines a broad framework for AI adoption across public services, with education identified as a critical area for innovation and ethical implementation. Building on this foundation, the Artificial Intelligence Policy Document and Action Plan in Education (2025–2029), issued by the Ministry of National Education, offers a detailed roadmap for integrating AI into school management, curriculum design, teacher training, and student learning.

Policy	Issuer	Date	Relation to AI	Link
Turkish National Artificial Intelligence Strategy 2021–2025	Digital Transformation Office, Ministry of Industry and Technology. Presidency of the Republic of Türkiye	2021	National AI strategy focused on innovation, education, public services, and ethical AI adoption	https://wp.oecd.ai/app/uploads/2021/12/Turkey_National_Artificial_Intelligence_Strategy_2021-2025.pdf
Artificial Intelligence Policy Document and Action Plan in Education (2025–2029)	Ministry of National Education (MoNE)	2025	Comprehensive roadmap for integrating AI into school management, curriculum, teacher training, and student learning	https://yegitek.meb.gov.tr/meb_iys_dosyalar/2025_07/19_150909_egitimde_yz_politika_belgesi_18072025_en.pdf