## The State of AI and Education Policy Internationally

Country	National AI	Education Strategy	Recent & Specific Actions,	Key Documents
	Strategy		Recommendations, Policies or	
			Initiatives	
Australia	Australia's AI Action Plan	An draft AI in schools	General AI	Department of
	(2021) focuses on	framework (July 2023) to	Actions from Australia's AI Action Plan (2021):	Industry, Science,
	transforming business,	guide education systems,	-Set up of a national AI centre ( <u>CSRIO Data61</u> ) to	Energy and Resources
	growing and attracting AI	schools and teachers to use Al	coordinate expertise, capabilities and help SMEs	(2021) Artificial
	talent, solving national	ethically and safely. The core	adopt and develop emerging technology.	Intelligence Action Plan
	challenges and becoming	elements of enhancing	-Grants program to incentivise AI practitioners	
	a global leader in	teaching and learning,	to engage with regional businesses to develop	NSW Government
	responsible and inclusive	benefitting all members of the	AI solutions for regional problems.	Education (2023) Draft
	AI.	school community,	-Scholarships co-funded by universities and	National AI in Schools
		transparency, fairness,	industry to support post-graduate qualifications	Framework
		accountability, privacy and	in industry-focused research projects.	
		security with 22 underlying		Australian Human
		principles.	Education	<b>Rights Commission</b>
			Strategies for improving assessment design and	(2023) Utilising ethical
			integrity by <u>University of Melbourne</u> (July 2023)	AI in the Education
			include: assessment of process rather than	<u>System</u>
			product (e.g. through inquiry, self-reflection),	
			incorporate tasks that ask students to	
			demonstrate evaluative judgement, nested or	
			staged assessments situated in complex	
			scenarios, diversify assessment formats (e.g.	

	podcast, video, ePortfolio), incorporate	
	authentic, context-specific or personal	
	assignments, incorporate in-class and group	
	assignments, incorporate oral interviews.	
	A standing committee on Employment,	
	Education and Training is inquiring into the use	
	of genAl in the Australian education system	
	(May 2023).	
	Australian Human Rights Commission's	
	submission to the inquiry (July 2023)	
	recommendations: children and young people	
	be specifically consulted, principle of 'best	
	interests of the child' to inform policy, support	
	and supplement teaching and learning not	
	replacement, protection of personal data,	
	independent auditing of algorithmic bias,	
	specific policy prohibiting misuse or generation	
	of deceptive or malicious content, encourage	
	individuals to identify AI-generated content,	
	provide professional development and training	
	to teachers, introduce comprehensive digital	
	literacy to schools, develop consistent national	
	standards or guidelines around the use of AI in	
	education, continued investment into research	
	and development of the use of AI tools to	
	understand impact, improve access to resources	
	and technology infrastructure and recognise	
	particular contexts, encourage development of	
	resources specifically designed to address	
	disadvantaged cohorts, policies which prioritise	
	programs for schools with higher proportion of	

			disadvantaged students, removing barriers,	
			targeted training, encouraging community	
			engagement and outreach to address digital	
			divide.	
Canada	Pillars of the Pan-	Ontario's Virtual Learning	Education	Government of
	Canadian Artificial	Strategy (2020) aims to drive	Ontario made an investment of \$50 million by	Quebec, Strategie
	Intelligence Strategy:	growth and advancement in	the Ministry of Colleges and Universities into	Numerique Du Qubec
	Commercialisation (e.g.	virtual learning across	VLS projects carried out by higher education	(2018) Digital Action
	National AI Institutes,	province's post-secondary	institutes (eg. Virtual faculty resource hub to	<u>Plan</u>
	Global Innovation	institutions. Framework pillars	promote personal, academic, career and	
	Clusters), Standards and	<ul> <li>Being the Future, Being a</li> </ul>	community resilience for students - \$400,000).	Government of
	Talent & Research (e.g.	lifelong learner, Being a global	eCampus Ontario is the associated organisation	Canada, Innovation,
	Improving compute).	leader; principles –	and platform which provides open learning	Science and Economic
		Collaborative, Learner Driven,	resources, library, edtech resource provider and	Development (2022)
	Canadian Institute for	Digital by Design.	developer for higher education.	Pan-Canadian Artificial
	Advanced Research		Ontario's department of education platform	Intelligence Strategy
	( <u>CIFAR</u> ) Strategic	Quebec's digital action plan	contains curriculum resources, virtual teaching	
	Priorities – Al Science, Al	(2018) focuses on supporting	and learning support for educators.	
	for health, AI for energy	the development of digital		
	and the environment, AI	skills of young people and	Objectives of <u>Quebec's digital action plan</u>	
	commercialisation,	adults, making use of digital	include: defining digital skills, integrating them	
	understanding the	technologies to enhance	into education and training, supporting the	
	societal implications of	teaching and learning	development of teachers and support staff,	
	AI, advancing equity,	practices, creating an	support individuals and organisations to make	
	diversity and inclusion in	environment conducive to the	the transition to a digital culture, develop	
	AI	development of digital	innovative digital teaching and learning	
		technologies in the education	practices, pool resources and services for	
		system.	sharing and access, foster the development of	
			distance education offerings, oversee	
			deployment of administrative and pedagogical	
			solutions to monitor educational progress,	
			strengthen digital governance, use partnerships	

			as strategic lever, guarantee access to fair and	
			safe digital technologies in educational	
			institutions. A 1.185 billion investment between	
			2018 – 2023.	
EU	The European approach	A <u>digital action plan</u> is a key	General AI	European Commission
	to artificial intelligence	enabler to the vision of	The <u>AI Act</u> is risk based legislation which define	(2023) A European
	(2021) centres on	achieving a European	unacceptable risks of AI systems (which include	approach to artificial
	excellence and trust, the	Education Area by 2021, which	cognitive behavioural manipulation, social	intelligence
	EU aims to boost	sets the common goal of a	scoring and real-time, remote biometric	
	research and industrial	high-quality, inclusive and	dentification).	European Commission
	capacity while ensuring	accessible digital education		(2022) Ethical
	safety and fundamental	system and aims to support	Education	guidelines on the use
	rights.	the adaptation of the	A European Digital Education Hub, an online	of artificial intelligence
		education and training	collaborative community, has been established	(AI) and data in
	The EU aims to achieve	systems.	to facilitate cooperation and exchange in digital	teaching and learning
	this by: enabling the		education through information and knowledge-	for educators
	development and uptake	Strategic priorities: Fostering	building, communities of practice, acceleration	
	of AI in the EU;	the development of a high-	of best practices, establishing teachers as	
	making the EU the place	performing digital education;	researchers.	
	where AI thrives from the	Enhancing the digital skills and		
	lab to the market;	competencies for digital	A European Education Area Strategic	
	ensuring that AI works for	transformation (contains 13	Framework <u>Working Group</u> – Digital Education:	
	people and is a force for	actions including dialogue,	Learning, training and assessment (DELTA) – has	
	good in society;	content, ethical guidelines,	been established to encourage mutual learning	
	building strategic	training, women's	and the exchange of information and best	
	leadership in high-impact	participation, connectivity and	practices. Focussing on fostering a high-	
	sectors.	digital equipment)	performing digital education eco-system and	
			enhancing digital skills and competences for the	
			digital transformation.	
			Ethical guidelines on the use of AI and data in	
			teaching and learning for educators has been	
			published by the European Commission to help	

			educators understand the potential applications of AI and data as well as to raise awareness of possible risks. Developed a <u>Digital Competence Framework for</u> <u>Educators (DigCompEdu 2017)</u> to support education sector specific digital competencies for educators at all levels. Free <u>Self-reflection tools on digital</u> <u>competencies in education (SELFIE)</u> have been developed to help schools and teachers develop digital competencies and improve use of technology for teaching and learning (including work-based learning).	
Finland	Vision for Finland for AI to be an active part of every Finn's daily life, making use of AI in all areas of society from healthcare to manufacturing – ethically and openly. Finland will be a safe and democratic society that produces the world's best services in the age of AI, a good place for citizens to live and rewarding place for companies to develop and grow. AI will reform work as well as create	Finland's Age of Artificial Intelligence report describes "a harmonised and effective education system, by international standards, makes it possible for Finland to react quickly to new, necessary needs". Through guaranteeing education and development of expertise society will be able to adjust to the changes AI will bring and enable the competitiveness and economic growth of Finland.	General AI Establishment of <u>Finnish Centre for AI</u> in 2017, which is a collaboration between higher education institutions to develop AI to benefit society and industry. -Example projects in biodata, transport, innovative manufacturing for SMEs -Education program to address bottle neck for adoption and lack of experts. Targeting future experts, training of working professionals, providing AI literacy for all. Education 2018 - Development of ' <u>Elements of AI</u> ' a free MOOC.	Ministry of Economic Affairs and Employment (2017) Finland's Age of Artificial Intelligence

	wellbeing through growth		Digivision 2030 (2021) is a project to restructure	
	and productivity.		higher education through digitalisation and	
			flexible study. For assessment, guidance, data	
			and resources.	
			Key strategic actions: enhancing	
			competitiveness of companies, utilising data in	
			all sectors, speed up and simplify adoption,	
			ensure top-level expertise and attract top-	
			experts, make bold decisions and investments,	
			build world's best public services, establish new	
			cooperation models, make Finland a trendsetter.	
New Zealand	New Zealand can engage	Vision from the New Zealand	General AI	Al Forum NZ (2018)
	with AI to shape a	<u>Curriculum</u> – "confident,	Carried out a co-design project of regulatory	Artificial Intellligence:
	prosperous, inclusive and	connected, actively involved,	frameworks for AI with the World Economic	Shaping a Future in
	thriving future for our	lifelong learners".	Forum.	New Zealand
	nation. We need to		Pilot projects included developing guidelines to	
	proactively help shape its		ensure the responsible development of	World Economic Forum
	impact on our economy		risk/benefit assessment framework for AI in	(2020) Reimagining
	and society rather than		government.	Regulation for the Age
	passively let AI shape our			of AI: New Zealand
	future lives.		Education	Pilot Project
			Roll out of IT infrastructure <u>– network for</u>	
	Digital strategy for		learning.	Ministry of Education
	Aotearoa:			(2023) New Zealand
	What would it mean to		Development of <u>online curriculum hub</u> and	Curriculum
	be the first country to		refreshing of the NZ curriculum.	
	embrace the ethical			Ministry of Education
	deployment of Artificial		Objectives of <u>National Education and Learning</u>	(2020) The Statement
	Intelligence?		Priorities and Tertiary Education Strategy	of National Education
	– Strategic themes: trust,		1: Learners at the centre – Learners with their	and Learning Priorities
	inclusion, growth		whanau are at the centre of education; 2:	(NELP) and the Tertiary

-Building a national	Barrier-free access – Great education	Education Strategy
digital 'brand' and a	opportunities and outcomes are within reach	<u>(TES)</u>
trusting environment	for every learner; 3: Quality teaching and	
	leadership – Quality teaching and leadership	Digital Strategy for
	make the difference for learners and their	Aotearoa
	whānau; 4: Future of learning and work –	
	Learning that is relevant to the lives of New	
	Zealanders today and throughout their lives; 5:	
	World-class inclusive public education – New	
	Zealand education is trusted and sustainable <sup>3</sup> .	
	Priorities:	
	1: Ensure places of learning are safe, inclusive	
	and free from racism, discrimination and	
	bullying: 2: Have high aspirations for every	
	learner/ākonga, and support these by	
	narthering with their whanau and communities	
	to design and deliver education that responds	
	to their needs, and sustains their identities	
	languages, and cultures: 3: Reduce barriers to	
	education for all including for Maori and Pacific	
	these with learning support poods: 4: Ensure	
	chose with learning support needs, 4. Ensure	
	every learner/akonga gains sound foundation	
	Skills, including language, includy and	
	numeracy; 5: Meaningruity incorporate te reo	
	Maori and tikanga Maori into the everyday life	
	of the place of learning; 6: Develop staff to	
	strengthen teaching, leadership and learner	
	support capability across the education	
	workforce; 7: Collaborate with industries and	
	employers to ensure learners/ākonga have the	
	skills, knowledge and pathways to succeed in	

			work; 8: Enhance the contribution of research and mātauranga Māori in addressing local and global challenges.	
Singapore	"Smart Nation" National Al Strategy has a vision of Singapore as a leader in developing and deploying scalable, impactful Al solutions in key sectors of high value and relevance to citizens and businesses <sup>1</sup> . Key areas of interest are: freight planning, municipal services, chronic disease prevention and management, personalised education, border clearance.	The vision of the EdTech Masterplan 2030 (2023) is "Technology-transformed learning, to prepare students for a technology-transformed world". Students: Digitally- empowered, future ready learners and innovators Teachers: Technologically- adept, collaborative learning designers Schools: Intelligent, responsive, digitally-equipped learning environment System: Networked EdTech ecosystem	General AI Key national strategies are: collaboration of research, industry and government, AI talent and education, data architecture, building trust progressively, international collaboration, emphasise deployment and strengthen deployment loop (problem definition, development and testing, scaling), human centric approach. Education Implementation of AI into <u>Student Learning</u> <u>Space</u> (SLS) which contains curriculum-aligned resources and system tools such as adaptive learning capabilities (recommendations), feedback assistants, support for e-assessment. Key Ministry of Education strategies: greater customisation of student learning, development of digital literacy and technological skills, empower development of students 21 century competencies, strengthen school and department culture of collaboration and EdTech practices, strengthen teacher's EdTech practice. Enablers of this are learning analytics and data; school infrastructure; support and processes, EdTech ecosystem.	Singapore Government, Smart Nation Digital Office (2019) National Artificial Intelligence Strategy Ministry of Education (2023) "Transforming Education through Technology" Masterplan 2030

UK	The UK has led an Al	Department of Education	General AI	UK Government (2022)	l
	Safety Summit which	statement on genAI: "Public	Set up of the <u>Alan Turing Institute</u> (2015) – a	National AI Strategy	l
	resulted in the Bletchley	access to generative AI poses	centre for research and innovation to harness		l
	Declaration, signed by 29	opportunities and risks to the	the power of data science and AI.	UK Government,	l
	countries, which affirms	education sector. Appropriate		Department for	l
	that AI should be	use has the potential to	Set up of the <u>AI standards hub</u> for governance	Education (2023)	l
	designed, developed,	reduce workload, freeing up	and standardisation of AI technologies.	Generative artificial	l
	deployed and used in a	teachers' time allowing them		intelligence in	l
	manner that is safe,	to focus on excellent teaching.	Set up of Foundation Model Taskforce, bringing	education	l
	human-centric,	Schools, colleges, universities	together government, industry and academia,		l
	trustworthy and	and awarding organisations	to lead AI safety research to drive forward the		l
	responsible. Also affirms	need to take reasonable steps	safe and reliable development of foundation		l
	the potential for	preventing malpractice. The	models and seize the opportunities they		l
	unforeseen risks	education sector must protect	present. Initial £100 million, plus £900 million		l
	(particularly in	its data, resources, staff and	investment into compute technology.		l
	cybersecurity,	pupils (privacy of personal			l
	biotechnology) and	data, cyber security, harmful	Education		l
	manipulation of content	online content)".	Russell Group (24 UK universities) set out five		l
	<ul> <li>necessary and urgent to</li> </ul>		principles for universities: Universities will		l
	address, through		support students and staff to become AI-		l
	international		literate; Staff should be equipped to support		l
	cooperation. Al actors		students to use generative AI tools effectively		l
	developing frontier		and appropriately in their learning experience;		l
	models are encouraged		Universities will adapt teaching and assessment		l
	to provide context-		to incorporate the ethical use of generative AI		l
	appropriate transparency		and support equal access; Universities will		l
	and accountability on		ensure academic rigour and integrity is upheld;		l
	plans to measure and		Universities will work collaboratively to share		1
	mitigate harmful		best practice as the technology and its		l
	capabilities (e.g. misuse).		application in education evolves.		l
	Focus on identifying				l
	safety risks and risk-		Quality Assurance of Higher Education (QAA)'s		l
	based policies.		advice for higher education centres: developing	1	1

			institutional policies to support digital artificial	
	UK National AI Strategy		intelligence literacy; the impact of equity and	
	'A 10-year plan to make		accessibility for students; the need to change	
	Britain a global Al		approaches to assessment in the long term; the	
	superpower.' Pillars are:		impact in the short term upon awards and	
	Investing in long term		progression.	
	needs of AI ecosystem;			
	Ensure AI benefits all		QAA's strategies for assessment: review existing	
	sectors and regions;		assessment and reduce volume including items	
	Effective governance of		susceptible to misuse of genAl tools, shift	
	AI.		towards authentic or synoptic assessments to	
			test synthesis of outcomes or apply knowledge	
			in real-life, go back to handwritten or oral	
			examinations, integrating AI by design, allow for	
			some use if genAl tools, hybrid submissions	
US	The White house has an	The U.S. Department of	General AI	DLA Piper (2023) The
	executive order on the	Education is committed to	National strategies:	US National AI R&D
	safe, secure and	supporting the use of	1. Make long-term investments in fundamental	Strategic Plan: A
	trustworthy development	technology to improve	and responsible AI research	Comprehensive look
	and use of AI with eight	teaching and learning and to	2. Develop effective methods of human-Al	into the future of Al
	principles: safe and	support innovation	collaboration	
	secure; responsible	throughout educational	3. Understand and address the ethical, legal,	The White House
	innovation, competition	systems. There is a need to	and societal implications of AI	(2020) Blueprint for an
	and collaboration;	share knowledge and develop	4. Ensure the safety and security of AI systems	AI Bill of rights
	responsible development	policies as AI becomes	5. Develop shared public datasets and	
	and use to support	increasingly embedded and	environments for AI training and testing	U.S. Department of
	American workers;	available to the public.	6. Measure and evaluate AI systems through	Education, Office of
	policies to advance		standards and benchmarks	Educational Technology
	equity and civil rights;	Foundations: Center people;	7. Better understand the national AI R&D	(2023) Artificial
	interests of Americans	Advance equity, Ensure safety,	workforce needs	Intelligence and the
	and their daily lives to be	ethics and effectiveness;	8. Expand public-private partnerships to	Future of Teaching and

privacy and civil liberties;		9. Establish a principled and coordinated	
manage risks from	Policies are needed to:	approach to international collaboration in Al	U.S. Department of
governments own use of	leverage automation to	research.	Education, Office of
AI and increase capacity	advance learning outcomes		Educational Technology
to support, regulate and	while protecting human	Education	(2017) Reimagining the
govern for better results	decision making and	Recommendations to Education leaders:	Role of Technology in
for Americans; lead the	judgment; interrogate the	Emphasise humans in the loop, align AL models	Education
way to global societal,	underlying data quality in AI	to shared vision for education, design using	
economic and	models to ensure fair and	modern learning principles (inclusive, fair),	
technological progress.	unbiased pattern recognition	strengthen trust, inform and involve educators,	
	and decision making in	R&D in addressing context and enhancing trust	
The White House has	educational applications,	and safety, develop education-specific	
proposed AI principles for	based on accurate information	guidelines and guardrails, explainable,	
the use of AI to protect	appropriate to the pedagogical	inspectable, overridable AI	
the American public and	situation; enable examination		
guide the design, use and	of how particular AI	Challenges to address: Systems thinking about	
deployment of	technologies, as part of larger	Al in education, balancing human and computer	
automated systems: Safe	edtech or educational	decision making, providing teachers and	
and effective;	systems, may increase or	students support while avoiding surveillance	
Discrimination	undermine equity for	and protecting privacy, possible unintended or	
protections; Data privacy;	students; and take steps to	unexpected consequences.	
Notice and Explanation;	safeguard and advance equity,		
Human Alternatives,	including providing for human	Formative assessment strategies: enhance	
Consideration and	checks and balances and	question types, measurement of complex	
Fallback.	limiting any AI systems and	competencies, provide real-time feedback,	
	tools that undermine equity.	increase accessibility, adaptive to learner ability,	
The <u>US National AI R&amp;D</u>		embedding of assessment in learning process,	
Strategic Plan describes a		assessment for ongoing learning.	
long-term commitment			
to pioneering Al		National Educational Technology Plan (2017) –	
technology while		Reimagining the role of technology in education	
considering its largest		recommendations:	
impact, emphazising a			

	shared vision and		Learning: take inventory or learning technology.	
	collective effort to		align to learning outcomes, develop and	
	harness the full potential		implement resources that use flexibility of	
	of the technology.		technology for equitable access, support	
			research in learning sciences.	
			Teaching: increase educators' digital literacy.	
			develop skills in online and blended instruction.	
			expectations around technology competency.	
			Leadership: clear strategic direction and how	
			technology can support to improve learning, set	
			vision for use of technology to enable inclusive	
			learning, funding models and plans for	
			sustainable technology nurchases - eliminate	
			obsolete resources develop communities of	
			practice for sharing and understanding visions	
			and research	
			Assessment: ongoing gathering and sharing of	
			data for learning and teaching while ensuring	
			nrivacy and information protoction, docign and	
			implement learning dashbeards or integrated	
			systems, B&D into embedded assessment for	
			systems, R&D into embedded assessment for	
			engagement dhu motivation.	
			intrastructure: ensure proadband access to	
			internet, ensure access to devices, support	
			development of openly licensed resources,	
			cybersatety and cyber security training for	
			students, teachers, and parents.	
Supra National C	Irganisations Strategies and F	Recommendations		
OECD –	Recommendation of the		General Al	<u>OECD (2023)</u>
Organisation	Council on Artificial			Recommendation of

for economic cooperation and development	Intelligence states principles of human- centered values and fairness, transparency and explainability, robustness, security and safety, accountability.		<u>Recommendations for national policies</u> to invest in AI research and development, foster digital ecosystems, design an enabling policy environment (to test and scale), build human capacity for labour market transformations, international co-operation (as well as to developing countries) to foster sharing of AI knowledge.	the Council on Artificial Intelligence OECD (2021) State of implementation of OECD AI Principles: Insights from National Policies
UNESCO - United Nations		UNESCO is tocused on education as a human right	General AI Policy recommendations: system wide vision	UNESCO (2023) Guidance for
Educational,		with special interest in gender	and strategic priorities; overarching principle	generative AI in
Scientific and		equality and Africa. SDG goal	(eg. humanistic); interdisciplinary planning and	education and research
Cultural		4: "ensure inclusive and	intersectoral governance; policy and regulation	
Organization		equitable quality education	for the ethical, inclusive and equitable use of AI;	UNESCO (2023) AI and
		and promote lifelong learning	pilot testing, monitoring and evaluation - build	education: Guidance
		opportunities for all".	an evidence base; foster local Al innovations.	for policy-makers
		Need to validate AI systems on ethical and pedagogical appropriateness for education.	<u>Concerns of AI</u> : worsening digital poverty, outpacing regulation, use of content without consent, unexplainable models, pollution of internet, generation of deepfakes, lack of	<u>UNESCO (2023)</u> <u>Recommendations on</u> <u>the Ethics of Artificial</u> <u>Intelligence</u>
		2019 Beijing Consensus	understanding of real world - 'hallucinations',	
		established that AI should be	reducing diversity of opinions and further	
		human-controlled and	marginalisation of marginalised voices. Social-	
		deployment should be in the	emotional connection, intellectual	
		service of people to enhance	development, psychological impact.	
		human capabilities, should be	Education	
		designed in an ethical, non-	Regulating use of AI (in education): Human-	
		discriminatory, equitable,	centered approach. Endorse and develop	
		transparent, and auditable	general data protection regulations,	
		manner, and that impact of AI	development of broader national AI strategies	

		on people and society should be monitored and evaluated throughout the value chains. Also made 36 recommendations of actions/practices related to AI in education.	including formulation, funding and implementation, specific regulation on ethics of AI, enforce copyright, elaborate on regulatory frameworks, build capacity for proper use. Framework for use: Promote inclusion, equity, linguistic and cultural diversity; Protect human agency; Monitor and validate GenAI systems for education; Develop AI competencies including GenAI related skills for learners: Build Capacity	
			for teachers and researchers to make proper use of GenAI; Promote plural opinions and plural expressions of ideas; Test locally relevant application models and build a cumulative evidence base; Review long-term implications in intersectoral and interdisciplinary manner.	
			Ethical recommendations: Do no harm; safety and security; privacy and data protection; multi- stakeholder and adaptive governance and collaboration; responsibility and accountability; transparency and explainability; human oversight and determination; sustainability; awareness and literacy; fairness and non- discrimination.	
UNICEF - United Nations International Children's Emergency Fund	The responsible data for children project seeks to build awareness regarding the need for special attention to data issues affecting children.		Education Put the best interests of the child and child rights approach at the centre of data activities. Principles: Participatory – engage and inform those affected by use	Responsible data for children Synthesis Report

		Professionally Accountable – establish processes, roles and responsibilities People-Centric – ensure needs and expectations of children, caregivers and communities are prioritised Prevention of harms across the data life cycle – establish end-to-end data responsibility by assessing risks during collecting, storing, preparing, sharing, analysing and using data Proportional – Aligning the breadth of data collection and duration of data retention with the intended purpose Protective of children's rights – recognising the distinct rights and requirements for helping children develop to their full potential Purpose driven – identifying and specifying why data is needed, and how benefits will improve	
		children's lives	
WEF – World	The <u>WEF Platform for</u>	General	World Economic Forum
Economic	Shaping the Future of	The WEF spearheaded a multistakeholder,	(2020) Reimagining
Forum	Iechnology Governance:	evidence-based policy project in partnership	Regulation for the Age
	Machine Learning is	with the Government of New Zealand. The	Pilot Project
	guided by a vision of	governance frameworks for AI regulation. It was	<u>i not i roject</u>
	accelerating and scaling	structured around three focus areas: 1)	
	the social benefits of	obtaining of a social licence for the use of AI	
	emerging technologies	through an inclusive national conversation; 2)	
	while mitigating their	the development of in-house understanding of	
	risks.	Al to produce well-informed policies; and 3) the	
		effective mitigation of risks associated with Al	
	Applies an agile	systems to maximize their benefits.	
	governance methodology		

t	to develop actionable		Areas of focus: developing a framework for	
f f	frameworks or toolkits		widespread conversation to build trust	
+	through a		independent group or body to provide support	
l			independent group of body to provide support	
n	multistakenolder		and advice to users, a centre of excellence for	
a	approach that brings		Al, build a risk/benefit assessment framework	
t	together governments,		for AI design and implementation to mitigate	
c	companies, civil society		adverse effects, which is flexible enough for	
a	and academia to develop		organisations and governments.	
p	projects within 3 areas:			
e	enabling frameworks,		Guidelines for adopting AI: Justify choice, adopt	
h	high-risk use cases and		multi-stakeholder approach, consider relevant	
10	eapfrog opportunities.		regulations, build on existing best practices.	
			apply assessments of risks/benefits across	
			lifecycle of AI service (learning means outcomes	
			can change) adopt user-centric and use case	
			hased approach, clearly lay out risk	
			prioritization scheme, define performance	
			prioritization scheme, denne perioritatice	
			metrics, define operational roles, specify data	
			requirements and flows, specify lines of	
			accountability, support culture of	
			experimentation, create educational resources.	
ISC – A	A systems approach is	Provides an adaptive, analytic		International Science
International n	needed in the evaluation	framework (checklist) for the		<u>Council (2023) A</u>
Science c	of AI because of the	basis of discourse and decision		framework for
Council b	broad use and application	making by stakeholders.		evaluating rapidly
b	by multiple types of			developing digital and
U	users.			related technologies:
				Al, Large Language
Т	To date, largely			Models and beyond
u	"principles" focused or			
l v	voluntary compliance.			
	/			

GPAI – Global Partnership on Artificial Intelligence	National policies and international cooperation for trustworthy AI should include: Investing in AI research and development; Fostering a digital ecosystem for AI; Shaping an enabling policy environment for AI; Building human capacity and preparing for labour market transformation International cooperation for trustworthy AI.		<ul> <li>General</li> <li>Principles for responsible stewardship of trustworthy AI: <ul> <li>Inclusive growth, sustainable development and well-being</li> <li>Human-centred values and fairness</li> <li>Transparency and explainability</li> <li>Robustness, security and safety</li> <li>Accountability</li> </ul> </li> </ul>	GPAI – <u>Responsible AI</u>
The Institute for Ethical AI in education		Reforms in education are needed to ensure that all learners can benefit optimally from the use of AI in education.	Education Has a list of objectives, criteria, and checklist of integrating AI in educational settings. Equity: AI systems should promote equity between different groups of learners. Autonomy: AI systems should be used to increase the level of control learners have over their learning and development. Privacy: A balance should be struck between privacy and the legitimate use of data for achieving well-defined and desirable educational goals. Transparency and Accountability: Humans are ultimately responsible for educational outcomes	<u>The Ethical Framework</u> for AI in Education

		and the sold have a supervisited level of a second that	
		and should have appropriate level of oversight	
		of how AI systems operate.	
		Informed Participation: Learners, educators and	
		other practitioners should have reasonable	
		understanding of AI and its implications.	
		Ethical Design: AI resources should be designed	
		by people who understand the impacts these	
		resources will have.	
IEEE		General AI	IEEE Ethically Aligned
		General principles: Human rights, well-being,	Design
		data agency, effectiveness, transparency,	
		accountability awareness of misuse	
		competence	
		To ensure that they best serve the public	
		interest policies should:	
		Support promote and enable internationally	
		recognized logal norms	
		Develop gevernment expertise in related	
		Develop government expertise in related	
		rechnologies.	
		Ensure governance and ethics are core	
		components in research, development,	
		acquisition, and use.	
		Regulate to ensure public safety and responsible	
		system design.	
		Educate the public on societal impacts of	
		related technologies.	