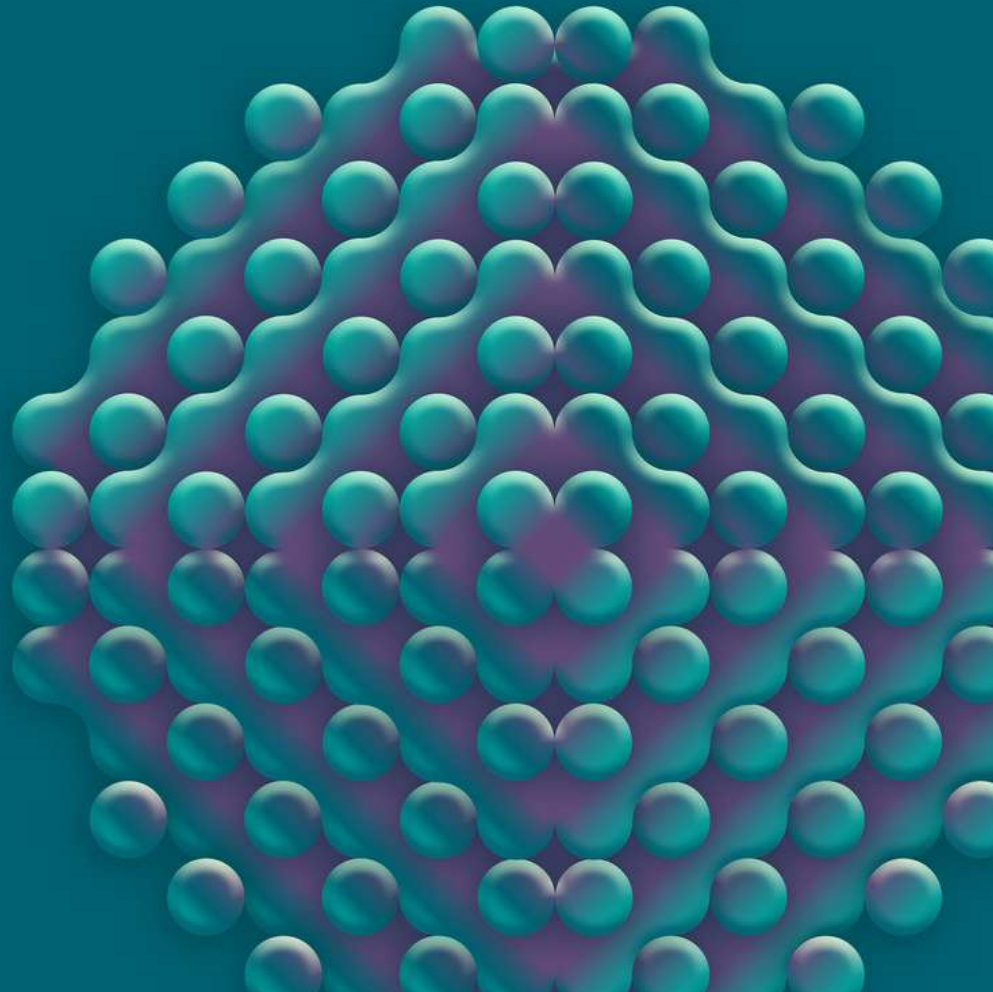


WISE 11 Summit Report & Policy Recommendations

Creative Fluency: Human Flourishing in
the Age of Artificial Intelligence

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I want to ensure WISE is a platform for new ideas that keep pace with the changes taking place in the world, and obstacles that education faces in certain countries for reasons of which we are all too aware. There is no alternative but to innovate if we are to find solutions to intractable problems.

**Her Highness Sheikha Moza bint Nasser
Chairperson of Qatar Foundation**



WISE will redouble its efforts to understand how to harness the full potential of AI to support quality teaching and learning for all; as well as how to counter the misuse of AI to maliciously distort our collective understanding of reality and appreciation of even simple truths. We will do this through collaborative research and policy development efforts with both local and international partners and in close coordination with the Ministry of Education and Higher Education of the State of Qatar.

Stavros N. Yiannouka
World Innovation Summit for Education (WISE), CEO



Acknowledgments

On behalf of the entire World Innovations Summit for Education (WISE) team, we want to extend our gratitude to the speakers, partners and delegates for their active participation in the 11th edition of the WISE Global Summit **Creative Fluency: Human Flourishing in the Age of AI**. We appreciate the valued contribution to many discussions during WISE 11 that are captured in this **WISE 11 Summit Highlights and Policy Recommendation Report**. The insights, expertise, and dedication from each participant have played a crucial role in shaping these discussions and charting a policy roadmap to address the implications of AI on education.

Their engagement has not only enriched the summit but has also laid the foundation for effective policy advocacy to ensure that AI's impact on education is thoughtfully considered and strategically addressed. We deeply appreciate the broader education community commitment to advancing the field of education and look forward to continued collaboration as we work towards creating a more inclusive, innovative, and equitable future for learners worldwide.

We are excited to continue our engagement as we delve deeper into the challenges and opportunities presented by AI for education nationally and globally.

Stavros N. Yiannouka, Selma Talha-Jebril and Shahd Dauleh

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Summit Overview

As the world rapidly transitions into an AI-driven era, the need for a deeper understanding of the challenges and opportunities it presents to the global education landscape becomes crucially important. WISE 11 provided the platform to address this need by showcasing the latest efforts in this area and creating dialogues between key stakeholders to identify, recognize and potentially embrace AI tools and systems to strengthen learning ecosystems worldwide.

The emergence of AI challenges our traditional understanding of creativity and raises profound questions about the future of education in a world still grappling with persistent legacy issues around teacher shortages, limited access to formal learning among vulnerable populations, poor learning outcomes even in developed nations, and a disconnect between higher education and workforce needs.

In this context, the WISE 11 Summit invited the WISE community to debate and discuss the topics that are reshaping our education landscape, including the importance of computational literacy, the promise of personalized learning for all, new AI-integrated pedagogical approaches that enhance the creative potential of students and teachers, and issues of equity and embedded values in the design, dissemination, and implementation of emerging technologies for education around the world.

The WISE 11 Summit set out to explore five key thematic areas, with the aim of charting a roadmap for how the education sector can best respond, adapt, and even successfully integrate AI into practice.

1 CLASSROOMS OF THE FUTURE

Explored the implications of AI for teaching and learning, questioning if AI will necessitate a fundamental reimagining of educational practices

2 BUILDING ETHICAL AI

Focused on ensuring that AI tools align with core societal values and cultural norms, emphasizing the importance of ethical considerations in AI development

3 AI AND DIGITAL SOVEREIGNTY

Highlighted the challenge of preserving educational autonomy in the face of AI superpowers, highlighting the need for policies that safeguard national interests and sovereignty

4 HIGHER EDUCATION AND EMPLOYMENT

Explored strategies for equipping graduates with future-resilient skills in an AI-driven landscape, focusing on the evolving role of higher education in preparing students for the workforce

5 SCALING FOR EQUITY AND ACCESS

Examined the potential of AI to overcome the long-standing issue of equitable access to quality education, questioning if AI could be the key to solving disparities in educational opportunities

This report covers the main discussions and conclusions from the listed thematic areas, offering a comprehensive summary of the Summit's Masterclasses, Panels, and Policy Roundtable sessions. It includes a chapter on recommendations for future research and policy development. Furthermore, the report presents important findings from a significant parallel discussion at WISE 11, aimed at identifying strategies to restore education access in Gaza. During this private session, experts discussed the use of AI and other innovations to quickly provide education and psychosocial support on the ground in Gaza.



Classrooms of the Future

Classrooms of the Future

Overview of Discussion

The discussion on "Classrooms of the Future" revolved around leveraging AI to reimagine educational practices, emphasizing the balance between technology integration and the preservation of human-centric teaching. It underscored the necessity for educators to adapt and evolve, ensuring that AI serves as a complement rather than a substitute for the relational aspects of teaching.

An overarching understanding that emerged is the irreplaceable nature of certain human-centric skills (sic) including empathy, curiosity, compassion, and inspiration that cannot be easily replicated by AI. Although attempts to mimic these skills have blurred the distinction between artificial and human capabilities, yet they do not conclusively diminish the critical role of teachers in infusing humanity into the classroom.

As AI adopts a variety of roles in the learning experience, - tutor and teammate, for example - teachers must find ways to utilize AI tools to support their instruction. This could support the development of lesson plans and summarizing students' learning behaviors, to support an efficient, productive, and connected process that streamlines educators' efforts.

On the learners' side, the use of AI can also cultivate a more equalized and personalized learning experience for students. However, it is necessary to also ensure learners are AI-literate on a competency level, an awareness level, and a critical and creative level.

Furthermore, it is also important to acknowledge that the integration of the AI in learning, especially in personalized learning, comes with risks associated with increased screen time for learners, and potential isolation,, which is a growing issue since the onset of the 4th Industrial Revolution.. Nevertheless, as many educational transformations before, this is a risk that accompanies the use of AI that can be mitigated through the use of relational personalized learning, rather than being viewed as a deterrent.

Lines of Inquiry

- Strategies for integrating AI without diminishing the educator's role.
- Preparing educators for a shift towards AI-enhanced pedagogies.
- Ensuring equitable access to AI technologies in education.
- The role of policy in shaping AI's integration into educational settings.
- Investigating effective models for educator AI literacy development.
- Developing AI tools that respect linguistic and cultural diversity.
- Exploring the impact of AI on student engagement and learning outcomes.



Summary of Outcomes

Key insights under this thematic area include the importance of a collaborative approach involving educators, policymakers, and technologists to design AI tools that address real classroom needs. The discussions highlighted the dual need to enhance educators' AI competencies while also focusing on developing students' critical thinking and adaptability. Here was a consensus on the critical role of policy to ensure that AI integration supports equitable educational outcomes and respects data privacy

Collaborative Design of AI Tools:

There is a clear need for AI tools to be developed in close collaboration with educators to ensure they meet actual classroom needs and enhance, rather than replace, the human elements of teaching.

AI for Personalized Learning: The summit discussions showcased AI's potential to deliver on the promise of personalizing education through several innovative approaches. This can include leveraging AI for automated engagement with parents based on predictive performance insights, optimizing curriculum development by efficiently compiling data and resources, and customizing learning paths to suit individual student profiles. By facilitating these personalized educational experiences, AI proves instrumental in enhancing learning outcomes, demonstrating its capability to adapt educational content and methodologies to meet diverse learner needs effectively.

Educator AI Literacy: There was a consensus on the importance of providing continuous professional development opportunities for educators to enhance their understanding and ability to effectively integrate AI into their pedagogy. This includes developing educator AI literacy, which is paramount for preparing educators for the AI era and ensuring they can navigate the complexities of AI in teaching and learning.

Ethical and Cultural Considerations: The discussions emphasized the importance of addressing ethical concerns, including data privacy and the potential for bias in AI technologies. There persists a need to develop AI tools that are culturally responsive and respectful of diversity.

Equitable Access and Policy Support: Ensuring equitable access to AI-enhanced education for all students was highlighted as a critical challenge. This includes the role of policy in creating an enabling environment for equitable AI integration, focusing on infrastructure, access, and data protection measures.



we are in a world where we are sharing intelligence with machines for the first time. So we've got to ask the question, what is for the machine and what is for the human, and what does that mean about what we need to learn as humans?

Conrad Wolfram
CEO of The Wolfram Group
Wolfram Research Europe



Spotlight

The Learners' Voice: Capturing Young Peoples' Perspectives on AI Integration into Education

At the 11th WISE Summit, a joint roundtable hosted by WISE and the Ministry of Education and Higher Education (MOEHE) and uniquely led by high school students from Qatar's government schools, embarked on a mission to explore the integration of Artificial Intelligence (AI) in education.

Highlights summarized here showcase young people's ambitions for integrating AI into education, highlighting their enthusiasm and appetite for innovative learning tools and digital literacy. Their perspective underscores the need for AI to enhance teaching, personalize learning, foster industry partnerships, and drive socioeconomic development. This initiative emphasizes the importance of preparing educators and students for an AI-enhanced educational landscape.

For more detailed insights and recommendations, access [this link](#).



ENHANCING CURRICULA WITH AI

Youth want to see AI technologies integrated into curricula across various subjects to foster digital literacy and technical competencies, and provide more interesting ways to learn.



AI TO SUPPORT AND ENHANCE THE TEACHING PROFESSION

Youth believe AI can be successfully utilized by their teachers to support administrative tasks and inspire innovative teaching methodologies.



INCLUSIVE AND PERSONALIZED LEARNING

Youth want to enjoy more personalized learning journeys, catered to them, with their needs and preferences in mind. They believe in AI's potential to facilitate such developments.



PARTNERSHIPS WITH THE PRIVATE SECTOR

Youth want greater collaboration with the private sector to align education with the industry needs and enhance their readiness for the workforce.



INVESTMENT IN AI FOR SOCIOECONOMIC DEVELOPMENT

Youth believe in the value of investing in more AI research and development to drive economic growth and innovation.



Building Ethical Artificial Intelligence

Building Ethical Artificial Intelligence

Overview of Discussion

The Building Ethical AI track provided a comprehensive exploration of the ethical implications of AI technologies in educational contexts. Experts highlighted the potential of AI to revolutionize learning and teaching methodologies while also stressing the need for ethical frameworks to guide its deployment, ensuring that such technologies enhance educational equity and accessibility without compromising privacy or integrity.

Lines of Inquiry

- Examine best practices for data management and protection in AI-driven educational applications.
- Rethinking existing inequalities within educational settings with AI integration.
- Ethical considerations for the development of AI-powered assessment tools.
- Establish guidelines and standards for the ethical use of AI in education.
- Investigate methods to detect and mitigate bias in AI educational tools.
- Longitudinal studies on the impact of AI on learning outcomes.
- Explore the ethical-related skills and knowledge educators and students need to effectively integrate AI into learning environments.

Summary of Outcomes

The discussions underscored several critical points, including the need for transparency in AI algorithms to avoid bias, the importance of inclusive design that considers diverse learning needs, and the significance of safeguarding data privacy and security. Experts cautioned against an over-reliance on AI without adequate oversight and human judgment.

The Dual Role of AI in Enhancing and Challenging Educational Equity:

Participants discussed how AI could both ameliorate and exacerbate existing disparities in education. AI's potential to personalize learning and provide scalable educational resources could significantly reduce barriers for underrepresented or disadvantaged groups. However, without careful implementation, there persists a risk that AI technologies could further entrench inequalities, particularly if access to these technologies is uneven or if the AI systems inadvertently reflect or amplify societal biases.

Ethical Design and Deployment of AI:

The necessity of ethical design principles in AI development was at the center of discussion, ensuring that AI education tools are transparent, explainable, and accountable. Developers must consider the ethical implications of their work from the outset, incorporating diverse perspectives and prioritizing the protection of students' rights and privacy.

Privacy, Consent, and Data Protection:

The discussions highlighted significant concerns regarding data privacy and the ethical use of student data. The need for robust data protection measures that comply with legal standards and respect individual consent was emphasized. This includes clear communication with students and educators about how their data is being used, who has access to it, and how it is protected.

The Imperative of Human Oversight:

Despite the advances in AI, there was a unanimous agreement on the necessity of human oversight in educational settings. AI should be viewed as a tool to augment human teaching and not as a replacement. Ensuring that educators remain at the center of the learning process is crucial for ethical AI integration.

Collaboration Across Stakeholders:

The importance of multi-stakeholder collaboration in shaping the future of AI in education was another significant theme. This involves policymakers, educators, AI developers, students, and the broader community working together to establish ethical guidelines and standards for AI in education.





Artificial Intelligence and Digital Sovereignty

Artificial Intelligence and Digital Sovereignty

Overview of Discussion

The discussion on AI and digital sovereignty centered around the grave need for nations, especially those in the Global South and MENA, to assert control and self-determination over their digital futures. It explored the challenges and opportunities presented by AI and digital technologies, emphasizing the need for a balanced approach that harnesses the benefits of these advancements while safeguarding cultural identities, choice, data privacy, and equitable access.

Lines of Inquiry

- Digital sovereignty consideration for MENA and Global South countries.
- Leverage AI and digital technologies to enhance societal and economic development.
- Integration of cultural identities within the context of digital sovereignty.
- Policy and regulation to support the establishment of digital sovereignty.
- Exploring how AI can align with diverse cultural and ethical norms.
- Strategies for reclaiming digital spaces from dominant global narratives and practices.
- Strategies to localize AI models catering to the linguistic and cultural diversity.

Summary of Outcomes

The discussion within this track highlighted several key insights including the importance of developing AI technologies that align with the cultural, linguistic, and societal norms to ensure technological relevance and prevent the imposition of external values. It addresses the problem of data colonialism, where resources from less developed nations are exploited, impacting local cultures and economies negatively. The role of education in fostering digital literacy and critical thinking is deemed crucial for digital sovereignty, alongside the necessity of equitable access to digital technologies and the internet to improve education, healthcare, and economic opportunities, thereby supporting national digital sovereignty initiatives.

Necessity of Localized AI

Development: The development of AI technologies that reflect the cultural, linguistic, and societal norms of specific regions is needed.. This approach not only fosters technological relevance and acceptance but also guards against the imposition of external value systems.

Challenges of Data Colonialism: The discourse highlighted the persistent issue of data colonialism, where data and digital resources from less economically developed nations are exploited by more developed ones, undermining local cultures and economies.

Education as a Pillar for

Sovereignty: Education systems play a pivotal role in cultivating digital literacy and critical thinking skills, enabling individuals to navigate and contribute to the digital world effectively, thus supporting national digital sovereignty agendas.

Importance of Equitable Access:


Ensuring equitable access to digital technologies and the internet is fundamental for realizing the benefits of digital sovereignty, particularly in enhancing education, healthcare, and economic opportunities.

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AI cannot just be Western values, they need to be values that are global, and that means that the global South and the Middle East need to be part of that conversation and that means that we need to set up the infrastructure to be able to be part of these conversations.

*Karim Ginea
founder of RAI Audit
Ex-META*





Higher Education and Employment

Higher Education and Employment

Overview of Discussion

The discussions underscored the rapidly evolving landscape of work and the pivotal role of higher education in preparing the workforce for an AI-driven future. Experts from academia and industry deliberated on the necessity for higher education institutions to adapt curricula, teaching methodologies, and partnerships to equip students with the skills required for tomorrow's job market.

Lines of Inquiry

- Effective strategies for integrating AI in curricula and practice.
- Strategies for fostering collaboration between academia and industry.
- Preparing students for the agility and resilience required in the AI era.
- The role of higher education in mitigating the skills gap in the workforce.
- Upskilling and reskilling for faculty and higher education leaders
- The impact of AI on workforce dynamics and how education can respond.

Summary of Outcomes

The critical need for continuous learning and upskilling in response to the shortening lifespan of professional skills was emphasized, as well as the importance of foundational skills alongside technical knowledge in AI, and the role of higher education as a bridge between theoretical knowledge and practical, industry-relevant skills. Additionally, this track highlighted the importance of diversity and inclusion in shaping AI and technology education to ensure that it is equitable and representative.

Integration of AI in Curricula: There is a pressing need for higher education curricula to integrate AI and digital technologies, preparing students with both the technical and soft skills required in the AI-driven workforce.

Academia-Industry Collaboration: Strengthening partnerships between academia and industry is crucial to ensure educational programs are aligned with the evolving needs of the job market, facilitating seamless transitions for graduates into the workforce.

Continuous Learning and Skill

Development: Emphasizing the importance of lifelong learning to navigate the rapidly changing technological landscape, where the half-life of professional skills is becoming shorter.

Ethical Leadership in AI: The critical role of higher education in instilling ethical considerations in the development and application of AI, ensuring future leaders make decisions that are socially responsible and culturally sensitive.

Accessibility and Inclusion: Ensuring that AI education and the resulting opportunities are accessible to all, addressing the digital divide and promoting diversity within the AI and technology fields to reflect broader societal values.



Computational Literacy, critical thinking, creativity, and curiosity are very important components of being AI literate.

*ISABELLE HAU
Executive Director of the
Stanford Transforming
Learning Accelerator*





Scaling for Equity and Access

Scaling for Equity and Access

Overview of Discussion

The discussions emphasized the need for a comprehensive approach to utilize AI effectively, ensuring equitable access to education for all. Strategies and policies were explored to leverage AI technologies while promoting inclusivity and fair educational opportunities. The focus was on embracing technology in a way that adheres to fairness, diversity, and inclusiveness. Ultimately, the goal is to balance AI's potential benefits with a firm commitment to equitable learning access for everyone, regardless of background, location, or circumstances.

Lines of Inquiry

- AI and the potential to foster equity and access in education globally.
- Barriers to achieving equitable access to AI-enhanced education.
- Policy frameworks supporting the scaling of equitable AI initiatives.
- The role of educators and institutions in ensuring access to AI resources.
- Ethical and responsible integration of AI to support diverse learning needs.
- Development of best practices for implementation.
- Exploration of cost-effective models for AI integration in low-resource environments.

Summary of Outcomes

The discussions on "Scaling for Equity and Access" highlighted AI's key role in inclusive and accessible education. Participants coming from various sectors agreed on AI's potential to democratize learning if systemic barriers are effectively managed and ethical guidelines are followed. The conversations emphasized a common goal of utilizing technology to improve access to education for all students. Here are the detailed key takeaways from these discussions:

Democratization of AI in Education:

The need to make AI and digital resources universally accessible underscores a commitment to breaking down the digital divide. This democratization is seen as essential in providing marginalized communities with apt tools for self-directed learning and personal growth.

Addressing Systemic Barriers: The recognition of infrastructure, affordability, and digital literacy as significant hurdles to equitable access to AI technologies highlights the multifaceted approach needed to overcome these challenges. This includes creating robust support systems, enhancing connectivity, and fostering digital literacy as foundational steps towards an equitable digital educational landscape.

Cultural Responsiveness: Ethical development and deployment of AI tools emerged as a central theme, emphasizing the need for technologies that honor the diversity of learners' experiences. Culturally responsive AI solutions are advocated to ensure technologies are not only accessible but also relevant and respectful of the users' cultural contexts.

Policy and Infrastructure Support: The call for comprehensive policy support and infrastructure development to facilitate access to AI technologies in education signifies the collective responsibility of policymakers, educational institutions, and technology developers. Such efforts are critical for establishing an educational framework that supports equity and access at its core.

Potential of AI to Bridge or Exacerbate the Educational Divide: While the transformative potential of AI in education was widely acknowledged, discussions also surfaced concerns about its implementation.

There is an understanding that AI could either significantly bridge the access gap in education by democratizing learning resources or, if not carefully managed, could exacerbate existing disparities. The consensus leans towards optimism, tempered with caution, highlighting the need for thoughtful, equitable, and inclusive implementation strategies to ensure AI serves as a force for good in narrowing educational inequities.

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At the end of the day, what we're all concerned about is everyone having an opportunity to be in a better place. And AI is a huge player in that negotiation and in an educational sense specifically: Who has access, who doesn't have access? To what extent do they have access? What is the quality of that access and how can we use that access as a negotiation in terms of the power of who decides what's important.

*Pelonomi Moiloa
CEO of Lelapa AI*



Spotlight

AI for Accessibility and Inclusion: Important Considerations for Inclusive Design

The roundtable discussion on Artificial Intelligence (AI) for Accessibility and Inclusion delved into artificial intelligence's transformative potential and challenges in mitigating barriers to ensure equitable opportunities for all. The roundtable, a collaboration with the Ministry of Social Development and Family and Sasol Qatar's Accessible Qatar initiative, covered crucial AI-related topics such as independence, privacy, and education, focusing on ethical AI development, inclusivity, and bias removal. Participants included disability advocates, individuals with disabilities, and stakeholders from academia, industry, and policy-making. The dialogue highlighted the importance of AI in advancing accessibility and inclusion through collective efforts.

All recommendations will be shared with The Artificial Intelligence Committee, established under the Ministry of Communications and Information Technology for consideration.

To obtain a copy of the final report, please email Leyla.mroueh@sasol.com or for a summary of the session: [here](#)

✓ **ADOPTION OF INCLUSIVE AI FRAMEWORKS**

Encourage the development of national and international AI frameworks that prioritize accessibility, inclusivity, and ethical considerations

✓ **BIAS MITIGATION IN AI TECHNOLOGIES**

Focus on creating AI solutions that are free from biases, ensuring they serve diverse user groups equitably

✓ **ENHANCED ACCESSIBILITY OF AI SOLUTIONS**

Make AI technologies accessible to people with disabilities, incorporating universal design principles from the outset

✓ **PROTECTION OF PRIVACY AND DATA**

Emphasize the importance of safeguarding personal data and privacy in the deployment of AI technologies

✓ **CROSS-SECTOR COLLABORATION**

Promote partnerships among academia, industry, government, and civil society to foster innovation in accessible and inclusive AI technologies

✓ **EQUITY IN TECHNOLOGY ACCESS**

Ensure equitable access to AI technologies, especially for marginalized communities, to prevent widening the digital divide



Policy Recommendations

Recommendations

In the rapidly evolving landscape of education, the integration of AI holds potential to transform teaching and learning experiences and prepare the workforce for the jobs of the future. However, as AI continues to permeate various aspects of the educational landscape, it is essential to understand both the opportunities and challenges it presents.

This recommendation section highlights key insights gleaned from the WISE 11 Summit from speakers and participants involved directly in the field of education and AI. The summit highlights offer actionable policy recommendations to harness the potential of AI while mitigating its risks, ultimately striving for an inclusive and equitable educational future in an AI-driven era.

Classrooms of the Future

Establish a Comprehensive Roadmap for AI Integration:

Develop a detailed roadmap outlining the strategic use of AI for various aspects of education, including management, teaching, learning, and assessment. This roadmap should provide guidance and direction for educators and policymakers on effectively leveraging AI technologies to enhance educational outcomes.

Provide Ongoing Professional Development for Educators:

Implement initiatives to support continuous professional development for educators, specifically focusing on building their capacity to effectively utilize AI in teaching and learning. Offer training programs, workshops, and resources to help educators navigate the complexities of AI integration in classrooms and maximize its potential benefits. Additionally, educators and technologists working together on AI-supported solutions can also facilitate professional development opportunities for educators.

By engaging in the co-design process, educators can develop a deeper understanding of AI technologies and their potential applications in education, empowering them to integrate these tools effectively into their teaching practices.

Integrate Digital Literacy and Critical Skills into Curricula:

Develop and implement a comprehensive master plan for integrating digital literacy and other critical skills into national educational curricula. Ensure that students are equipped with the necessary skills to thrive in a digital future by incorporating topics such as AI literacy, computational thinking, and data analysis into the curriculum framework.

Moving Away from Traditional Content-Driven Models to Inquiry-Based Models:

Fundamental shift in educational paradigms by transitioning from traditional content-driven approaches

to more inquiry-based models. Emphasizing active learning, critical thinking, problem-solving, and creativity over rote memorization and passive consumption of information. It involves redesigning curricula to prioritize deeper understanding, conceptual mastery, and skill development rather than mere content coverage. Inquiry-based learning encourages students to ask questions, investigate real-world problems, conduct research, collaborate with peers, and construct their own knowledge through hands-on experiences. By embracing this approach, educators empower students to become independent learners who can apply their knowledge and skills to novel situations, preparing them for success in an ever-evolving world.

Rethinking Assessment:

Assessment practices are undergoing a transformative shift to align with the goals of modern education, which emphasize the development of critical thinking, creativity, problem-solving, and other essential 21st-century skills. Traditional assessments, such as standardized tests and exams, are being supplemented or replaced by more authentic and formative assessment methods that provide a holistic view of student learning. This includes performance-based assessments, portfolios, project-based assessments, peer and self-assessment, and authentic tasks that mirror real-world challenges. These assessment models focus on evaluating students' ability to apply their knowledge and skills in

meaningful contexts, think critically, communicate effectively, collaborate with others, and demonstrate creativity and innovation. By valuing these competencies, educators can better support student growth and development and foster a deeper understanding of complex concepts and ideas.

Foster Cross-Sectoral Collaboration:

Implement policies that promote strategic stakeholder engagement across sectors and ministries such as ICT MOEHE, and other relevant stakeholders.

Encourage collaboration to ensure comprehensive alignment and effective development and implementation of AI solutions in education. Educators bring vital insights into student needs and learning environments, while developers offer technological expertise. Together, they can create AI tools that are both innovative and practically useful. This synergy ensures that AI applications enhance, rather than disrupt, teaching and learning processes. Key strategies to foster effective collaboration include:

- Building bridges between technology companies, educational institutions, and professional organizations to facilitate knowledge exchange.
- Co-design workshops and hackathons
- Professional learning communities such as forums or online communities for continuous sharing
- Incentivizing collaboration by offering grants, awards, or recognition to encourage joint efforts in developing AI solutions that address educational challenges.

Regulatory Frameworks for AI

Establish Comprehensive AI Regulations:

Advocate for the development and implementation of AI regulations that prioritize individual privacy and national interests. These regulations should ensure transparent and auditable use of education data, safeguarding sensitive information from misuse or unauthorized access.

Ethical and Responsible AI:

Collaboration between tech developers and educators promotes the ethical and responsible use of AI in education. Educators can contribute valuable perspectives on privacy, data security, and ethical considerations, ensuring that AI solutions adhere to ethical guidelines and respect the rights and dignity of students and educators.

Governance of AI Usage in Education:

Develop specific AI regulations tailored to the education sector, focusing on transparency, accountability, and user consent. These regulations should govern the ethical and responsible use of AI technologies in educational settings, ensuring that they adhere to established standards and guidelines.

Public Awareness and Engagement:

Implement strategies to foster public awareness and understanding of the ethical considerations surrounding AI in education. Promote dialogue and engagement among educators, students, parents, and policymakers to address concerns and ensure informed decision-making regarding AI implementation in schools.

Implementation of Ethical Standards:

Collaborate with stakeholders to develop and implement ethical standards for AI in education. These standards should prioritize student welfare, equity, and inclusivity, guiding the development and deployment of AI technologies to support learning outcomes while minimizing risks and biases.

Equity and Access

Inclusion of AI Skills in National Curricula:

Advocate for the integration of AI-related skills and knowledge into national educational curricula to ensure that all students are adequately prepared for a digital future.

Equitable Distribution of AI Technologies:

Implement policies that promote equitable distribution of AI technologies and resources across educational institutions, ensuring that all students, regardless of their socio-economic background or geographic location, have access to AI tools and opportunities.

Bridging the Digital Divide:

Develop strategies to ensure that the integration of AI in education serves to bridge, rather than widen, the digital divide. This may include targeted interventions to support underserved communities and schools with limited access to technology.

Incentivizing AI Tools for Diverse Learners:

Offer incentives for the development and utilization of AI tools that address the specific needs of diverse learners, including those with disabilities, English language learners, and students from marginalized communities.

Promoting Diversity, Equity, and Inclusion:

Enact policies aimed at promoting diversity, equity, and inclusion in AI education and workforce preparation. This may involve initiatives to increase representation of underrepresented groups in AI-related fields and ensure that AI education programs are accessible and welcoming to all students.

Higher Education and Employment

Establish Policy Frameworks for Higher Education Evolution:

Develop comprehensive policy frameworks to support the evolution of higher education in the AI era. These frameworks should outline strategies for integrating AI technologies into academic programs, promoting interdisciplinary research, and ensuring the alignment of curriculum with emerging workforce needs.

Foster Academia-Industry Partnerships for Workforce Development:

Implement initiatives to foster robust academia-industry partnerships aimed at workforce development. Encourage collaboration between universities and industries to co-design educational

programs, offer experiential learning opportunities, and facilitate technology transfer to bridge the skills gap and enhance employability in AI-related fields.

Support Local Tech Development and Innovation:

Implement policies that encourage investment in local technology development and innovation to foster digital sovereignty. Provide incentives and support mechanisms for startups, research institutions, and tech companies to develop AI solutions tailored to local needs and challenges. Promote collaboration between the public and private sectors to drive innovation and stimulate economic growth in the AI sector.

Invest in Educational Technologies and Infrastructure:

Allocate resources for investments in educational technologies and infrastructure to support AI learning. Ensure that educational institutions have access to state-of-the-art AI tools, software, and hardware necessary for teaching and research purposes. Additionally, invest in the development of digital learning platforms and resources to facilitate AI education and training initiatives.

Digital Sovereignty

Establishing Policy Measures for Autonomy:

Establish robust policy measures to safeguard digital sovereignty and preserve autonomy in education systems amidst the rise of AI superpowers. This includes implementing regulations and guidelines that prioritize national interests, data privacy, and control over AI technologies utilized within educational settings. Additionally, foster initiatives to promote domestic AI research and development, ensuring that educational institutions have access to locally developed AI tools and resources that align with national values, societal norms, and priorities.

Tailoring Technology for Cultural Integration and Linguistic Nuances:

Implement comprehensive AI language learning programs tailored specifically for Arabic-speaking countries that prioritize cultural integration and understanding of linguistic nuances. This involves investing in AI technologies capable of recognizing and interpreting the intricacies of the Arabic language, including dialects and regional variations, to ensure effective communication and cultural relevance. Additionally, collaborate with linguists, educators, and cultural experts to develop AI algorithms that are culturally sensitive and respectful, fostering an inclusive learning environment that celebrates the richness of Arabic language and culture.

Integrating AI and Information Literacy into Education and Lifelong Learning:

Develop and implement comprehensive education programs that integrate critical thinking, AI literacy, and information literacy skills into school curricula and lifelong learning initiatives. Emphasize the importance of teaching students how to critically evaluate information sources, identify disinformation and misinformation, and discern credible information from falsehoods in the digital age. Provide educators with training and resources to effectively teach AI and information literacy skills, including access to updated teaching materials, professional development opportunities, and support networks.

Conclusions

The policy recommendations stemming from the WISE 11 Summit offer a comprehensive roadmap for navigating the integration of AI into education while addressing its opportunities and challenges.

By focusing on key areas such as the Classroom of the Future, Regulatory Frameworks for AI, Equity and Access, Higher Education and Employment, and Digital Sovereignty, these recommendations provide actionable steps towards fostering inclusive and equitable educational practices in an AI-driven era.

Establishing comprehensive roadmaps for AI integration, providing ongoing professional development for educators, and fostering cross-sectoral collaboration are essential steps in leveraging AI's potential while ensuring ethical and responsible usage.

Moreover, prioritizing equity and access, promoting diversity, and supporting academia-industry partnerships are crucial for preparing the workforce for the jobs of the future. Additionally, safeguarding digital sovereignty and investing in local tech development are essential for preserving autonomy and aligning AI technologies with national interests and values.

By working closely with policy-makers and practitioners in implementing these recommendations, we can pave the way for an educational future that empowers learners, fosters innovation, and embraces the transformative potential of AI while upholding ethical standards and inclusivity.

Parallel Discussion

Restoring Education Access to Gaza

WISE and Education Above All hosted a roundtable discussion at the WISE 11 Summit to facilitate a knowledge-sharing and brainstorming session with the aim of exploring innovative solutions for the urgent educational crisis in Gaza. The focus was on leveraging innovation for the immediate provision of education, with an emphasis on building partnerships, utilizing technology and A.I., as well as providing psychosocial support on-ground. The session brought together diverse expertise to contribute to a tangible action plan for this critical mission.

KEY RECOMMENDATIONS PROPOSED:

TECHNOLOGICAL ADAPTATIONS

Prioritize low-tech solutions for immediate response, with a thorough mapping of existing infrastructure to tailor interventions. Emphasize community support and explore innovative communication methods like chatbots and SMS systems for education and psychosocial support

ALTERNATIVE EDUCATION AND TEMPORARY SOLUTIONS

Integrate mental health and psychosocial support (MHPSS) within educational efforts. Advocate for education as a priority in humanitarian aid and explore creative solutions including daily ceasefires for education and multipurpose educational shelters

PSYCHOSOCIAL SUPPORT

Establish a robust network of caregivers and activists for locally-led support initiatives. Prioritize low-cost, easily implementable psychosocial support strategies focusing on the well-being of caregivers and the community

MULTI-SECTORAL SUPPORT FOR HOLISTIC NEEDS

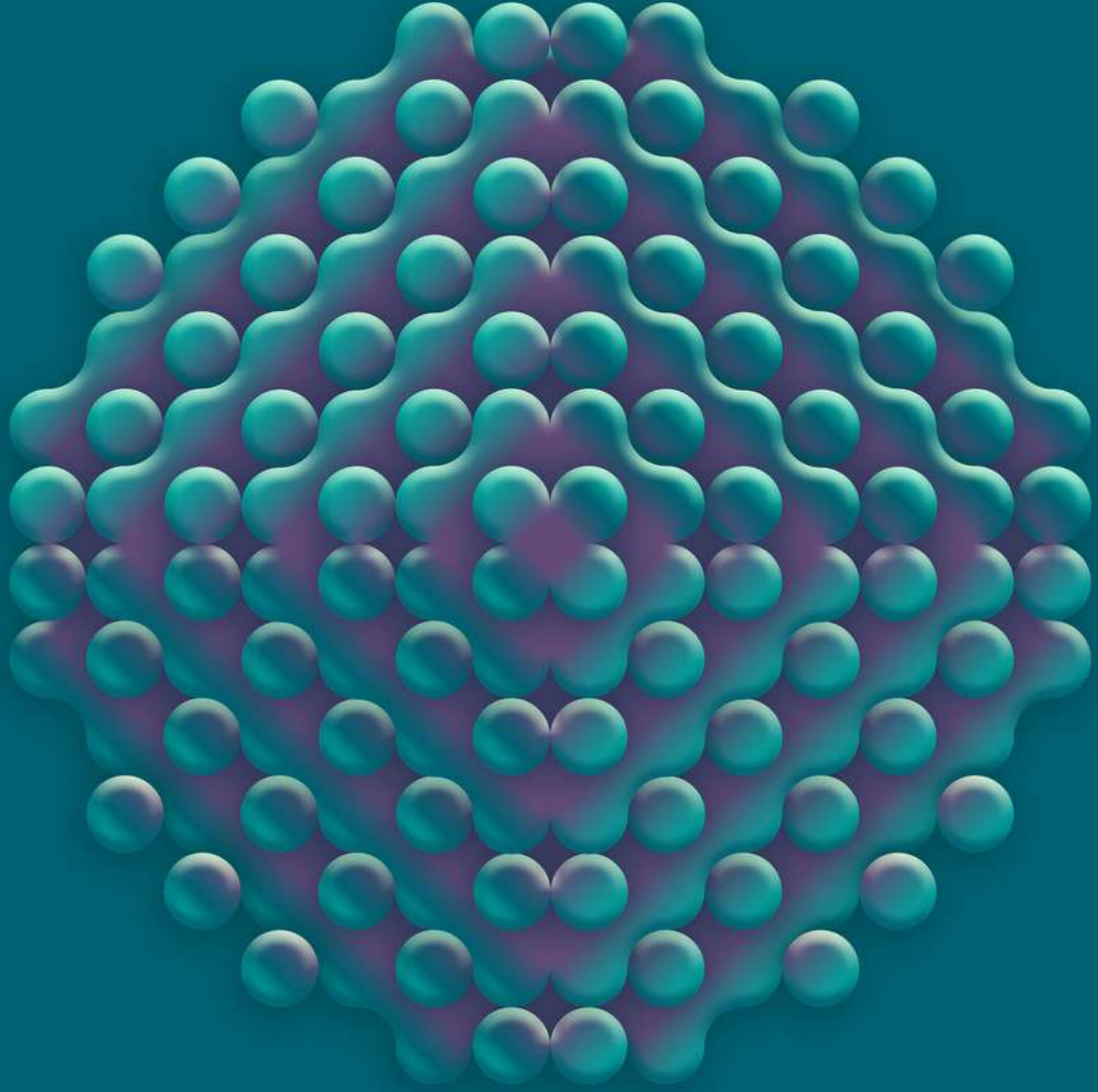
Address comprehensive needs including nutrition, health, and safety. Build resilience through partnerships across sectors, balancing immediate humanitarian needs with long-term educational continuity

HIGHER EDUCATION AND EMPLOYMENT OPPORTUNITIES

Adapt credentialing and out-of-country transcript attestation for new graduates and create immediate employment opportunities to serve the directly-affected conflict zone

The roundtable concluded with an acute awareness of the challenges faced and an acknowledgment that innovative and context-specific solutions are the way forward. In keeping the educational mission at the forefront of thought despite the crisis, learners can fulfill their right to a continued education. There persists a need for creative solutions to education access, recognizing that everyone can contribute to teaching and learning. In light of the discussions, a follow-up session is recommended to gain a deeper and more nuanced understanding of the on-ground situation and conditions in Gaza that has developed since. This subsequent discussion should aim to refine the strategies discussed, ensuring that these are aligned with the ever-evolving realities and needs of the region. A coordinated, multi-sectoral approach remains critical to addressing the complex educational, psychosocial, and economic challenges, with the ultimate goal of developing an effective and responsive action plan, utilizing multi-sectoral expertise.

For more information about this session, kindly reach out to our team through: wise-community@wise.org.qa



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