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Page | 1

The Future of Online Learning in Public Education

Kakembo Aisha Annet

Faculty of Education, Kampala International University, Uganda

ABSTRACT

The rapid integration of online learning into public education systems has transformed instructional methods, fostering greater accessibility and flexibility. This paper examines the current state, challenges, opportunities, and innovations within online education, particularly in public schools. While online learning offers opportunities to enhance equity, personalization, and collaborative potential, it also raises concerns about inclusivity, digital divides, and pedagogical efficacy. This study explores best practices, adaptive technologies, and the evolution of learning environments, advocating for informed policies and innovative solutions to optimize digital education. As education systems advance, the future of online learning lies in embracing immersive, inclusive, and participatory frameworks that prepare students for a globalized, technology-driven world.

Keywords: online learning, public education, blended learning, digital divide, adaptive technology.

INTRODUCTION

Due to rapid technological development, education has increasingly been impacted by digital resources and online delivery. Many schools and systems worldwide have adopted online learning to some extent. Online education is an instructional approach that supports, enables, and optimizes learning practices using online digital tools. It is a broad concept that includes diverse educational practices that can range from low online activity in a face-to-face course to fully online course delivery. In the blended learning context, there is a mix between face-to-face and online activities, and in the flipped classroom, instruction is typically delivered online and ultimately moves to face-to-face interaction. Each of these diverse and intersecting approaches is a component of digital and online learning environments and educational institutions [1, 2]. As the education system around the world continues to embrace online learning environments and educational technologies, it is important to examine the disparities and divide between students. Logically, pedagogies of online learning and its enrollment must take into account the diversity and flexibility that are required in educating the attitudes and aptitudes of all students. New education policies and guidelines must consider the need for a well-rounded approach to learning to ensure that students can have the competencies to compete and succeed in a cooperative global atmosphere. For this reason, the purpose of this blended learning approach is to help prepare students to succeed in an online learning environment. This is a form of digital literacy that all students need to be exposed to and learn [3, 4].

Current State of Online Learning in Public Education

Online public education is becoming increasingly popular, as many students and families choose to prioritize flexibility, increased control over curriculum, or safety in response to health, school climate, or bullying concerns. Public online learning opportunities are growing to accommodate this interest, and while programs, platforms, models, and technologies vary widely, quality matters. What does access to public online learning look like today? The families with children enrolled in online charter schools are increasingly racially and socioeconomically diverse. State virtual schools and multi-district online programs serve different types of students, from those seeking a fully virtual experience to those needing individual courses or needing to take courses that their schools cannot offer. School districts that provide online programs can also reach different groups of students and families, including families who may live

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in the district but have chosen to educate their children at home. The 'traditional' or 'conventional' fully virtual classroom model in which students are enrolled in either a district or single-school option is only part of a diverse landscape of public online learning that encompasses state virtual schools, blended learning models, and other technology-based learning programs. The growth in these hybrid models reflects many of the same motivators – such as personalization and opportunities for credit recovery – as the traditional fully virtual classroom option. A wide range of educators and members of online learning organizations contributed to this portrait, though the information was available to them in the spring of 2019. Concurrently, a set of studies exploring online public schools was published, further exploring the extent and nature of the digital divide and addressing public health concerns about student well-being in virtual schools. While these reports are not directly related to our endeavor, they and their findings amount to a useful complement. The portrait and its four cornerstones are a concrete first step for the MSR to better understand and meet the challenges and opportunities of our time, and we hope that others can benefit as well $\lceil 5, 6 \rceil$.

Challenges and Opportunities for Online Learning in Public Education

Though online learning is not new, there is growing interest in and reliance on it in public education in response to long-standing criticisms as well as issues that arose out of the pandemic. There are both great opportunities and great challenges that come with increased reliance on online learning in public education. Moreover, there is the danger of repeating the mistakes and failures of the past, both online and in person, if the focus is on simply replacing traditional practices, spaces, and tools with new ones. In many cases, "solutions" become "problems" when they are out of balance and out of time. If care is not taken, the over-reliance on online learning may undermine the primary functions of public schools, including student learning, development, and socialization. On the downside, there are many potential issues with online learning. These include underserving marginalized or underprivileged communities, the fact that it is not replacing but rather augmenting or exacerbating face-to-face learning and instruction and that purely virtual or purely augmented worlds may be less "real" and engaging than immersive ones. It is very easy to get the use of technology "wrong" in education, especially if we approach it in ways that attempt to simply "transfer" traditional classroom practices and tools over to an online format. However, there are many opportunities to rely more on digital technology, social media, and virtual environments as the main pedagogical approach of the future, rather than continuing to use them primarily in the service of traditional practices, tools, and goals. In an era of expanding access to digital technology and the diversity of educational resources it affords, we should seize upon the chances to enhance existing educational opportunities and even enrich human potential. There are many reasons to engage young people in online learning more than face-to-face learning, and many exciting ways to engage in this practice for the betterment of individuals and their communities. The rewards of learning online are not limited to student convenience or access. They also present the best potential for further human development, given that online technology provides the most powerful opportunity for student interaction and experimentation with new forms of individual and collaborative work, research, and publishing [7, 8].

Innovations and Best Practices in Online Learning for Public Education

In addition to massive changes in technology that permit high-speed internet and massive open online courses, the development team collected panelists' thoughts on several recent innovations. These include adaptive learning technologies, learning management systems, the development and integration of multimedia resources, the use of self-assessment methods to foster engagement, the cultivation of an instructor- or actor-led personal presence, and the role of electronic media in student interaction and engagement. Many of these innovations involve developing courseware that mixes multiple forms of media and developing multi-level assessment instruments. Integration innovations allow instructors to better utilize the video and photo capabilities of the latest mobile handhelds and pedagogical innovations in research universities around the country. In studying who put on workshops around the topic of teaching online in higher education and what those workshops look like, further evidence about ways people are learning to address teaching in the online environment was found [9, 10]. This paper ties together present practices at leading schools in public education, practices that have previously been identified as "best" or "effective" by scholars, with innovative tools that are making things more interactive in different ways for both students and teachers. Videoconferencing, mobile apps, and social media are among the tools that have especially risen to prominence over the last two years. If these tools eventually lead to more engagement and success for learners, it would be interesting to hear about them

Page | 2

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in future iterations of this report, particularly if institutional barriers to the adoption of innovative tools are broken down as a result of demonstrated value. Also in need of further exploration is the potential for small but vocal communities of instructors and other stakeholders to quickly influence institutional decision-making by promoting or rejecting tools based on their early impressions and adoptions [11, 12].

Recommendations for the Future

This paper has endeavored to synthesize an array of insights and opinions regarding the ever-popular topic of online learning in public education. While consensus exists around the merits of digital learning for some students and some teachers in some contexts, challenges have emerged that need strategic planning. Recommendations for policymakers and educators include:

- Acting on growing concerns about inequity in the digitalization of public education
- Resourcing professionals to lead the development of more and better online resources
- Ongoing research and evaluation of current and emerging online pedagogical methods and strategies
- Priceless is the virtue of being ready to change.

A not-quite quote from Cardinal Peter Turkson. Looking ahead, developments in hardware and software technologies suggest a strong focus on the potential of flexible, interactive, inclusive, and immersive learning environments; for example, virtual and augmented reality could greatly enhance education when they become more accessible. So too could innovative pedagogy go beyond "flipped" classrooms and Zoom seminars to truly digital modes of collaboration and community, where students may have more central roles. "Participatory" ways of learning are also important in decolonizing and internationalizing online and blended education. There are thus new opportunities on the horizon—or perhaps just around the corner—for digital education. Would it not be ironic if online learning and education technology were to follow the path of so much digital content, with initially high hopes but ultimately greater challenges of maintaining that hope amid concerns about quality and inclusiveness? MOOCs, in our experience, are still here: not a total success but not yet a total failure either [13, 14].

CONCLUSION

The landscape of online learning in public education is evolving rapidly, driven by technological advancements and the growing demand for flexible, inclusive, and accessible education. While the integration of digital tools and platforms presents exciting possibilities for personalized and immersive learning experiences, it also underscores the importance of addressing systemic inequities and ensuring universal access to quality education. Policymakers, educators, and stakeholders must prioritize bridging the digital divide, developing evidence-based pedagogies, and fostering innovative practices that empower students and teachers alike. Emerging technologies such as virtual and augmented reality, coupled with participatory learning approaches, hold immense potential to redefine public education. However, achieving this vision requires a balanced approach that leverages digital resources while addressing ethical, cultural, and practical concerns. As the education system embraces the future, the goal should remain clear: to create equitable, dynamic, and inclusive online learning environments that prepare all students for success in an increasingly interconnected world.

REFERENCES

- Anthony Jnr B, Noel S. Examining the adoption of emergency remote teaching and virtual learning during and after COVID-19 pandemic. International Journal of Educational Management. 2021 Oct 21;35(6):1136-50. <u>ntnu.no</u>
- 2. Pregowska A, Masztalerz K, Garlińska M, Osial M. A worldwide journey through distance education—from the post office to virtual, augmented and mixed realities, and education during the COVID-19 pandemic. Education Sciences. 2021. <u>mdpi.com</u>
- Dahan NA, Al-Razgan M, Al-Laith A, Alsoufi MA, Al-Asaly MS, Alfakih T. Metaverse framework: A case study on E-learning environment (ELEM). Electronics. 2022 May 19;11(10):1616. <u>mdpi.com</u>
- 4. Heng K, Sol K. Online learning during COVID-19: Key challenges and suggestions to enhance effectiveness. Cambodian Journal of Educational Research. 2021 Sep 9;1(1):3-16.
- Leech NL, Gullett S, Cummings MH, Haug CA. The Challenges of Remote K-12 Education during the COVID-19 Pandemic: Differences by Grade Level. Online Learning. 2022 Mar;26(1):245-67.

Page | 3

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- Catalano AJ, Torff B, Anderson KS. Transitioning to online learning during the COVID-19 pandemic: Differences in access and participation among students in disadvantaged school districts. The International Journal of Information and Learning Technology. 2021 Mar 16;38(2):258-70. <u>[HTML]</u>
- Tang YM, Chen PC, Law KM, Wu CH, Lau YY, Guan J, He D, Ho GT. Comparative analysis of Student's live online learning readiness during the coronavirus (COVID-19) pandemic in the higher education sector. Computers & education. 2021 Jul 1;168:104211. <u>nih.gov</u>
- Muthuprasad T, Aiswarya S, Aditya KS, Jha GK. Students' perception and preference for online education in India during COVID-19 pandemic. Social sciences & humanities open. 2021 Jan 1;3(1):100101. <u>sciencedirect.com</u>
- 9. Fuentes S, Tongson E, Viejo CG. Novel digital technologies implemented in sensory science and consumer perception. Current Opinion in Food Science. 2021 Oct 1;41:99-106.
- Nasiri E, Khojasteh L. Evaluating panel discussions in ESP classes: an exploration of international medical students' and ESP instructors' perspectives through qualitative research. BMC Medical Education. 2024 Aug 26;24(1):925.
- 11. Tamilarasi M. Mobile empowerment: Enhancing education and connectivity for college students. International Journal of English Literature and Social Sciences. 2023;8(3):294-300. <u>ijels.com</u>
- Madhava MC, Lakshmi T, Murthy BR, Sravani S, Karthiga V, Baby A, Nikhitha A. Sources of Information for Agricultural Students on Online Meeting Tools during Covid-19 Lock Down. Int. J. Curr. Microbiol. App. Sci. 2020;9(7):3470-5.
- 13. Hofer SI, Nistor N, Scheibenzuber C. Online teaching and learning in higher education: Lessons learned in crisis situations. Computers in Human Behavior. 2021 Aug 1;121:106789.
- 14. Turnbull D, Chugh R, Luck J. Transitioning to E-Learning during the COVID-19 pandemic: How have Higher Education Institutions responded to the challenge?. Education and Information Technologies. 2021 Sep;26(5):6401-19.

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Page | 4