

**IEEE ICET 2022 Keynote Speech**  
**Rethinking and Redesigning National Smart Education Strategy**  
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**Abstract**

The COVID-19 pandemic has brought unprecedented challenges to education. In this special situation, lots of students have to learn online, which tested the resilience of ICT in education in every country. Digital transformation implies an integrated and innovative approach to the provision and management of education, and the organization of teaching and learning. Preparing individuals and communities to adapt to the Futures of Education and the digital transformation, which we should rethink and reshape at this critical moment as launched by UNESCO, is an essential issue for the development of education, especially for this moment from disruption to recovery. For education, we shall work out strategic solutions on how to reshape the education to adapt to an uncertain, complex and diverse world.

The talk of “Rethinking and Redesigning National Smart Education Strategy (SmartEDU)” is to identify the major issues and trends of education and explore the solution of infusing technology into education to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. Based on the experience during COVID-19, to achieve the Education Agenda 2030, it is the common understanding that national government leaders must engage in a multi-pronged approach with three major leverage points to promote smart education: 1) a renewed focus on transformative teaching and learning enabled through technologies, 2) building a digital learning infrastructure, and 3) ensuring forward- thinking governance and policy initiatives.

Overarching Considerations Across All Leverage Points: In implementing the three key leverage points in this framework, government leaders must place several overarching considerations at the forefront to ensure that the modernized digital learning ecosystem is agile, sustainable, and meets the needs of all stakeholders. The Inclusion and Equity, continuous improvement culture, and multi-sector cooperation and partnerships should be considered.