

# Rethinking and Redesigning National Smart Education Strategy

An exploration of the idea and solution on  
infusing technology into education for and  
beyond Education Agenda 2030



# Working Collaboratively so we can approach the future with smart education

We (UNESCO IITE, COL, ISTE, HSE, BNU) collaboratively launched this joint project on Rethinking and Redesigning National Smart Education Strategy (SmartEDU), and call for contributors, 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.

## THE CONTEXT

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. Preparing individuals and communities to adapt to the Futures of Education, 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 AIM

To foster human and social development worldwide through rethinking and redesigning national smart education strategies and elaborating the most up-to-date and adequate policy agenda to expand access to quality education and relevant lifelong learning opportunities for all, which will be achieved through pursuing the main project's outcomes and primary objectives.

To help educational communities promote transformative role of ICT in education, develop a transferable skill, including critical thinking, creativity, communication and collaboration, evaluate progress in view of the SDGs and associated targets of the 2030 Agenda for Sustainable Development.

## THE FIVE INITIAL ACTIVITIES

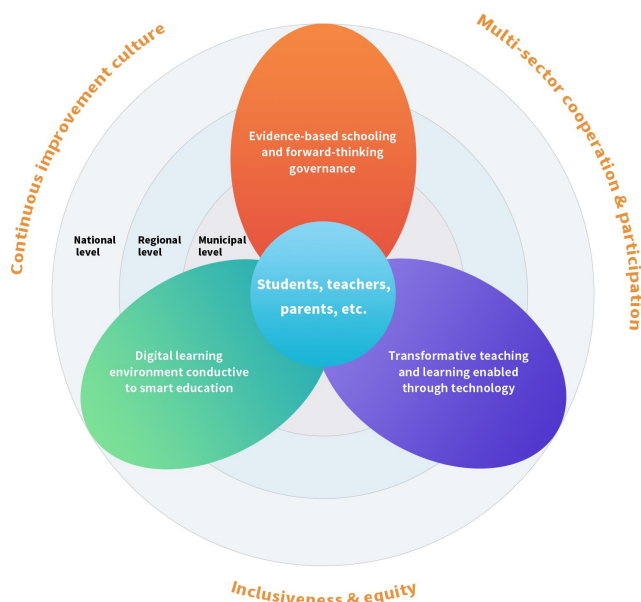
1. Review the policies on ICT in education for futures of education to rethink about the ecosystem of education and extra-curricular education, to share a forward-looking vision of what education and learning might yet become.
2. Build the technology framework for smart learning and education to recognize the characteristics of smart education, to propose the framework of smart education, to explore the route to realize smart education.
3. Identify the indicators of smart education to assess and monitor the status of smart education at country level, to provide a clear structure of the indicators for the computation of the index, to support case study countries to assess and monitor relevant policies and practices.
4. Develop the national public services for smart learning to elucidate the function and structure of national public services, to offer strategies, solutions, and support for national smart education public services.
5. Create technology standards of smart campus to accelerate the application of emerging technology in campus construction, to help schools plan and design smart campus.

### THREE KEY LEVERAGING POINTS

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.

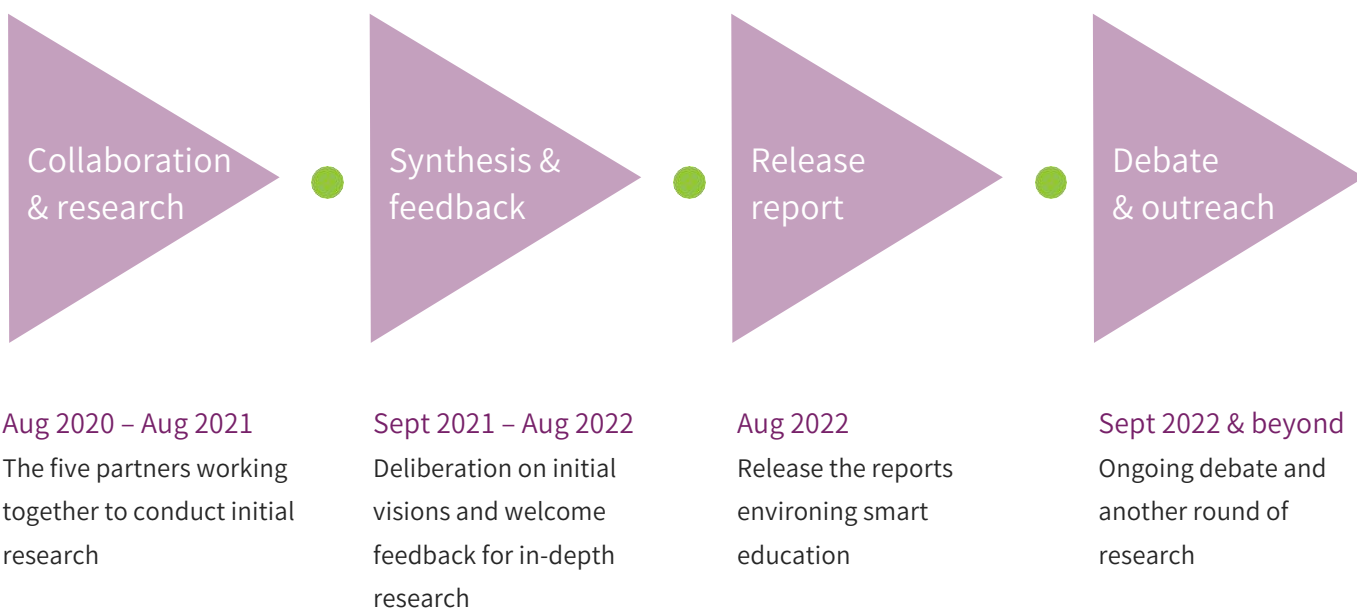
### THE SMART EDUCATION FRAMEWORK FOR DISCUSSION

Based on the case studies of smart education in different countries, the framework of smart education is proposed within the three layers: municipal level, regional level, and national level. On the other dimension, three leveraging points of smart education should all be contextualized at each layers, including transforming teaching and learning, digital learning environment, and forward-thinking governance.



Government leaders must place several overarching considerations at the forefront to ensure that the modernized smart education ecosystem is agile, sustainable, and meets the needs of all stakeholders.

## TIMELINE AND PHASES



# The Five Initiators

**UNESCO Institute for Information Technologies in Education (UNESCO IITE)** was established as an integral part of UNESCO by the General Conference of UNESCO at its 29th session (November 1997) and is located in Moscow, Russian Federation. IITE is the only UNESCO category 1 institute that holds a global mandate for ICT in education.

**The Commonwealth of Learning (COL)** is an intergovernmental organization created by Commonwealth Heads of Government in 1987 to promote the development and sharing of open learning and distance education knowledge, resources and technologies.

**International Society for Technology in Education (ISTE)** is an international organization, which is the home to a passionate community of global educators who believe in the power of technology to transform teaching and learning, accelerate innovation and solve tough problems in education.

**National Research University - Higher School of Economics (HSE)** is a leader in Russian education and one of the preeminent economics and social sciences universities in eastern Europe and Eurasia.

Having rapidly grown into a well-renowned research university over two decades, HSE University sets itself apart with its international presence and cooperation.

**Beijing Normal University (BNU)** grew out of the Education Department of Imperial University of Peking established in 1902, which initiated teacher training in China's higher education. BNU is a comprehensive and research-intensive university with its main characteristics of basic disciplines in sciences and humanities, teacher education and educational science.

## Secretariat

**Smart Learning Institute (SLI) of BNU** is affiliated to BNU, and also a joint venture between BNU and Eternity. SLI focuses on finding learning patterns powered by ICT, creating smart learning environments and platforms for lifelong learning, as well as supporting diversified, personalized and differential learning needs for digital learners.

Join us and contribute your visions



The project calls for collaborators to contribute visions and insights on smart education. Inputs from individuals, networks, and organizations are welcomed. Please contact us to provide your comments.  
<https://www.wjx.cn/vj/rn3VRqj.aspx>

Smart Learning Institute, Beijing Normal University  
12F, Block A,  
Jingshi Technology Building,  
No. 12 Xueyuan South Road,  
Haidian District, Beijing, China