



# India's Students Benefit from Education Transformation

## Introduction

Today's students will determine the economic and social future of countries across the globe. That fact raises significant concern in India, where only a small fraction of students have access to the technology-based training they need to succeed in the knowledge economy.

To address this issue, India's government has invested in a nationwide education transformation designed to integrate technology and digital learning across both rural and urban regions. The government is pursuing a variety of education-related policies and programs, all designed to improve education access, equity, and excellence.

Already, new policies and stimulus programs have increased PC penetration and broadband access. Support mechanisms—including professional development, education content development, and ecosystem enablement—have also been established to ensure a lasting transformation that will benefit students, and India's economy, for years to come.

## Challenges

- Provide access to quality education for all students, including those in rural and geographically remote regions.
- Integrate technology throughout society—in classrooms, households, and businesses.
- Make ICT more accessible and affordable for people across the country.

## Solutions

- Multi-year planning and funding of new policies and programs to increase access to quality education.
- New curriculum standards focus on development of technology-related skills.
- Public-private partnerships identify ways to make technology more accessible, affordable, and applicable for Indian youth.

## Results

- Millions more Indian students are using technology at home and in classrooms to develop essential 21st-century skills.
- Purchase programs are delivering PCs and Internet access to rural and remote regions, supporting student skill development and bridging the socio-economic divide.
- Jobs are being created in the technology industry, and further economic gains are expected as students graduate with technology-based educations.



## Five Keys to India's Education Transformation

The variety of education programs implemented across India fall into five general areas (see Figure 1). In Intel's work with more than 70 other countries around the world, these five interrelated categories have proven essential to support long-term, comprehensive changes in education.

### Policy ●

Governments have the power to implement policies that establish the conditions necessary to transform education.

Examples:

- India's government has implemented policies to support ecosystem development, extensive teacher training, and new digital curricula. The policies address a variety of education sectors, including distance and open education, vocational education, and higher education.
- Multi-year planning and funding supports ICT integration throughout the education system.
- National and state governments are collaborating with partners, including Intel, to establish and achieve goals related to policies and standardization initiatives.

### Curriculum and Assessment ●

Curriculum standards and assessment tools are necessary to track the success of education programs and build ongoing public and private support.

Examples:

- Curricula are being adapted nationwide that emphasize digital literacy, critical thinking, problem solving, and collaboration.
- To improve student performance in science and math, Intel® skool™ Learning Technology, a digital curriculum program, is being implemented in the state of Kerala to support learning goals and supply locally relevant content.
- Intel is working closely with various government bodies to promote 21st-century learning that aligns with the government's national curriculum.



Figure 1.

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*Intel has helped to implement more than 200 education programs in over 70 countries, and has invested more than USD 1 billion in the last decade to improve teaching and learning environments.*

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## Professional Development ●

Teachers, and their professional development, must be a central element in any sustainable education solution.

Examples:

- Indian states have trained more than 1 million educators through the Intel® Teach program, which helps teachers integrate technology in their instruction.
- The state of Maharashtra implemented Intel Teach to train more than 100,000 local educators in schools and teacher-education colleges.

## Information Communications Technology (ICT) ●

Optimal teaching and learning requires a full range of ICT tools, including broadband Internet connectivity, appropriate software applications, and operating environments.

Examples:

- India is supplying schools across the country with powerful PCs, broadband Internet access, relevant educational software and a strong infrastructure to help teachers and students succeed.
- State efforts support national goals. For example, to motivate students to pursue higher education, the government of Assam awards PCs to students scoring above 60 percent on their high school examinations.

## Research and Evaluation ●

Research and program evaluations provide valuable information to governments and other stakeholders as they define and make adjustments to education reform programs.

Example:

- Ongoing research and evaluations help India's education leaders make more informed decisions about the deployment and support of ICT in schools, and creates a cycle of continuous improvement.

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*Working with governments, policy makers, and local vendors, Intel helps to implement eLearning solutions that provide professional development to teachers; support student achievement and development of 21st-century skills; and enable access to relevant, localized digital content.*

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## DELIVERING EDUCATION TO RURAL REGIONS

A creative education solution was needed to provide technology to students in the remote Indian town of Baramati.

Five mobile PC labs—buses equipped with 18 computers each—were equipped through an Intel World Ahead community program. The program delivered digital education to thousands of previously unserved students in 49 rural schools in and around Baramati.

The schools report lower dropout rates, and students are actively engaging in school projects in which they educate their parents on how to use technology to improve farm productivity.



## THREE BEST PRACTICES

The ongoing success of India's education transformation depends on several best practices that reflect Intel's experiences with similar programs worldwide. Other countries can follow these best practices to achieve similar success.

### Best Practice 1: Bridge the urban-rural divide

India's government recognized the economic and social value of extending technology to schools in rural and geographically remote regions of the country. Through new policies and purchase programs, the government has begun to address the disparity in education between urban and rural areas, and has extended ICT access to many more schools nationwide.

### Best Practice 2: Establish public-private partnerships

The national government could not transform India's education system without the aid and support of numerous partners, including local governments, local and national industry partners, and leaders in the education sector. Only by involving all of these groups has the government been able to develop creative solutions that will deliver lasting social and economic benefits.

### Best Practice 3: Emphasize professional development

Sustained change in the classroom depends on professional development that helps teachers learn to integrate technology throughout their work. The Intel® Teach program has helped more than 1 million teachers across India develop new skills—skills that will, in turn, benefit millions of students.

## Conclusion

The size and scale of India's education challenges is daunting, but the country's response is already delivering results. Through sustained government leadership, long-term planning, and strong public-private partnerships, the country is successfully transforming its education system.

The five-part, systemic model that describes India's efforts is available to other countries worldwide. Working with Intel and other public and private partners, countries can create sustainable programs that provide lasting social change and economic opportunities.

## Achieve Your Vision

What's your vision of the world ahead? Intel's model of education transformation can help governments improve the quality of the education system, leading to greater economic and social opportunities.

Contact your local Intel representative to discuss how you can implement a sustainable, technology-based education program in your country. Visit us on the Web at:

[www.intel.com/education](http://www.intel.com/education)

