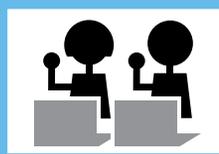




# The Value of Information and Communication Technologies (ICT) in Education

## STUDENT BENEFITS

### Enabled Personalized Learning



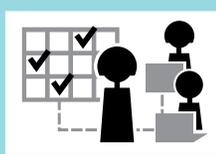
Learning is not a one size fits all. Technology can offer a personalized learning environment that is tailored to students' individual differences: progression level, pace, interests, learning style, and background. Technology provides the support and challenge required to keep students engaged and motivated and empowers them to reach their potential.

#### Resources

- Towards a Personalized Learning Mesh
- Avoiding the 4th Grade Slump

## SCHOOL WIDE BENEFITS

### Measurable Teacher Outcomes



ICT has brought about many dramatic changes in how teachers teach and how students learn. Educators use ICT to design and assess learning activities, to communicate with students, parents, and community members, as well as to participate in professional development experiences.

#### Resources

- How Today's Educators are Advancing a New Vision for Teaching and Learning
- Monitoring and Evaluation of ICT

## COMMUNITY BENEFITS

### Greater Community Involvement



Technology can help support parent and community member involvement in student learning by using methods such as school websites, email, blogs, text-messaging, etc. to help keep interested parties aware and engaged in their local education system.

#### Resources

- Parental Engagement and Pupil Achievement: The Critical Link
- Home-School Relationships and the Role of Digital Technologies

## COUNTRYWIDE BENEFITS

### Supporting Economic Development

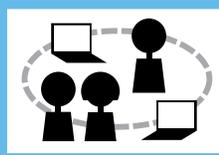


Research suggests that implementation of ICT in the classroom, along with the transformation to learner-centered instruction, supports economic and social benefits throughout a country.

#### Resources

- Why ICT Matters to Economic Growth: Private or Public?
- Technology-Enhanced Learning in Developing Nations

### Enhanced Teamwork & Cooperation

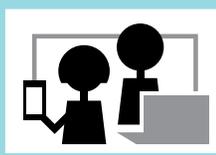


ICT tools foster an anytime, anywhere environment of increased student cooperation and teamwork. Similarly, technology implementation leads to increased collaboration and teamwork among teachers who are planning ICT integration in their curriculum.

#### Resources

- The ICT Impact Report
- The Role of Enhancing Education in Developing Countries

### Bridging the Gender Gap

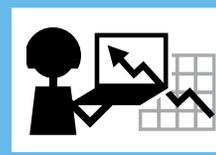


ICT has minimized gender differences in academic achievement. Lower achieving boys have improved performance and higher test scores with ICT. Other studies recognize that ICT helps improve the performance and attitudes of female students in traditionally male-dominated fields.

#### Resources

- Student Internet usage and self efficacy: A re-examination of the gender gap
- ICT as a Tool to Improve the Gender Balance

### Sound Educational Investment



Given scarce budget dollars of most schools, districts, and ministries of education, ICT is one of the key investments that should be made that benefits teachers and students.

#### Resources

- ICT Increases Productivity and Promotes Conducive Teaching and Learning Environments
- ICT's can be a Good Educational Investment

### Increased Global Competition



Investing in technology helps schools perform better. The increasingly important role ICT plays in economic development and the rapid rate at which it changes makes it difficult for schools and countries which do not invest in technology to compete globally.

#### Resources

- The Global Competitiveness Report
- The ICT Development Index

### Enriched STEM Learning



The products and services of the future will depend on engineers, scientists, and technology experts to create them. ICT assists students in collaborating with peers and experts, designing products, collecting and analyzing performance data, and, in many cases, actually helping them build products.

#### Resources

- Science Education and the Role of ICT
- K12 Horizon Report

### Increased Global Collaboration



ICT tools allow students to connect and communicate with classrooms all over the world, resulting in increased global awareness and a sense of cultural identity.

#### Resources

- Promoting Global Citizenship through ICT
- ICTs to Develop Teachers' Global Awareness

### Improved Academic Reporting

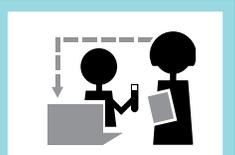


Effective ICT integration provides educational institutions with a variety of tools that community members and educators can use to analyze data such as demographics, achievement, and budgets. This feedback and analysis loop helps keeps schools accountable to their community.

#### Resources

- Improvement Planning Using Educational Data
- Student Achievement Reporting Resources

### Fostering Workforce Development



In both developed and developing countries, non-skilled jobs are disappearing. The rapid changes brought about by technology demand that workers learn not only how to use specific tools, but also how to implement strategies for lifelong learning in the workplace.

#### Resources

- ICT Training and Employability
- Strong, Sustainable, Balance Growth: A Skilled Workforce