

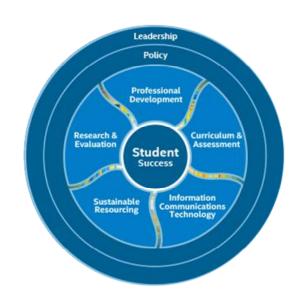
AGENDA:

Transforming Education for the Next Generation

Planning to integrate ICT into education

Ensuring Long-Term Success (Contents and teacher professional development)

META countries in Action



Achieving **YOUR VISION** of Student Success



WHY INVEST ICT IN EDUCATION

- •Government are already using billions of US dollars each year for classical education systems. They usually **ineffective, inefficient and inconsistent** if not updated and improved by technology.
- •Due to lack of standardization of resources, **the classical system cause more differentiations, inequalities in opportunities**. Rich always learn more and better than Poor; they receive bigger share from the Pie.
- •Digital learning can help to **close the gap** in Digital Divide.
- ICT based education system is for the future generations, gives them **new skills and intelligent knowledge**.
- With e-content, they learn as they play and they play as they learn. Whatever learned stays with them since they enjoy the learning process **Good learning experience**
- •Education Transformation is in reality an Education Based ICT Transformation. Students will teach digital skills to their friends families; **whole society benefit**, not just students.
- •Digital Literacy is key to increase the **Broadband Penetration**, **Internet Usage and e-inclusion**



Benefits of Education Transformation

Employment and Economic Development

- Build 21st century workforce
- Reduce unemployment

Competitiveness

- Equip every student for success
- Increase academic rigor and achievement

Citizenship and Social Equity

- Unlock student potential
- Prepare students for social leadership and citizenship



Wob losses and earnings losses have been concentrated in low-skilled, low-income households. ...Many workers remain trapped in low-paid, insecure jobs with little social protection...Young people continue to face record unemployment levels.

- OECD



Shifting the Learning Paradigm

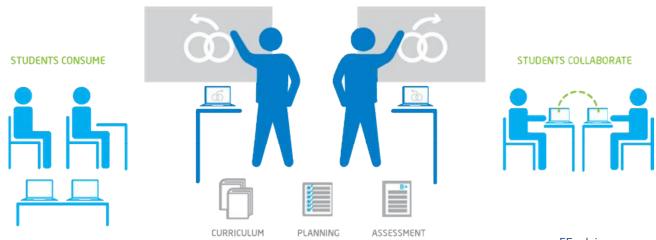
Traditional Teacher-Centered Classroom

Lecture-based knowledge dissemination. Limited use of technology.

Transitional Teacher-Centered Classroom

Lecture-based knowledge dissemination. Technology used for collaboration.

TEACHER DIRECTS



5Evolving

Evolving toward STUDENT CENTERED CLASSROOM



Shifting the Learning Paradigm

Student-Centered Classroom Technology-rich environment enables learning any time, anywhere, any way COLLABORATION TEACHER AS STUDENTS EXPERTS EXPLORE DISCOVER ASSESSMENTS LEARN RESOURCES COMMUNITY

6





Viewing Education Requirements from Several Perspectives

- What Teachers Might Need (Understand activities and requirements).
- What Students Might Need.
- What Parents Might Need.
- What School Administrators Might Need



Understand overall Constraints

- Geography and terrain (for example, rural, remote, or rugged)
- Population density
- Electrical power (quality and existence)
- Availability of broadband Internet connectivity
- Weather, climate, and other environmental concerns
- Socio-economic factors
- Language and customs
- Existing or legacy infrastructure





Intel Global Girls and Women Initiative

Empower millions of girls and women through education and technology to advance economic opportunity

Education Access

Drive awareness and action to expand education opportunities for girls

STEM & Tech Careers

Inspire more girls and women to become creators of technology

Technology Access

Connect girls and women to new opportunities through technology access, digital literacy and entrepreneurship











Inspire Girls and Women to Become Creators of Technology

- Use of hands-on "Maker" and coding activities
- Exposure to peer mentors and role models
- Connecting technology and engineering careers to real world applications and positive social impact

Examples of Programs and Partnerships:

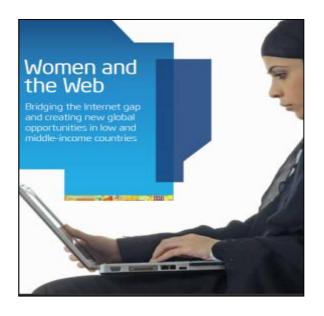
- Girls Who Code
- NCWIT AspireIT
- Robotics programs
- Hermanas: Diseña Tu Futura
- Compugirls
- TechGYRLS
- Intel Computer Clubhouse Network Start Making! program
- Intel International Science and Engineering Fair and the Intel Science Talent Search*
- EPICS program
- Higher Ed Scholarships and fellowships





Intel® She Will Connect Program

Goal: Empower millions of girls and women through technology and bridge the Internet gap



- Directly responds to findings and call to action in 2013 Intelsupported "Women and the Web" report to empower women in developing countries.
- Innovative combination of digital literacy training, online peer networks, and gender-relevant content.
- To be piloted in sub-Saharan Africa in 2014 and then scaled to other regions.
- Program to be delivered through partnerships with leading local NGOs and other organizations.

Intel® She Will Connect Video: http://www.intel.com/content/www/us/en/technology-in-education/she-wilconnect-program-close-gender-gap-video.html



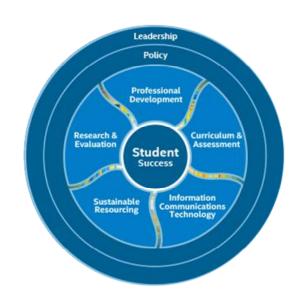
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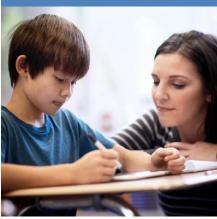
Intel® Education Solutions

User Experience

Hardware



Software & Services



Content Ecosystem



Implementation Support



Flexible, holistic education technology solution



Information and Communication Technology Models in Education

School Station



Primary usage is for administrative tasks. Students and Teachers have limited access.



DESCRIPTION

- The basic ICT configuration relies on just a few computers at school where usage is focused on School Administration Tasks and Professional Learning.
- Teachers and Students may have limited access to computers in the Media Center / Library primarily for research purposes.



Information and Communication Technology Models in Education

Labs

Computers are stationary. Focused primarily on Digital Literacy (ICT skills) and limited integration of Core Curricula activities.





FEATURES

- Labs are stationary and can foster 1:1 or 1: many learning environments.
- Time spent using technology is limited to availability of Lab.
- The teachers may begin integrating technology into the core curriculum.
- Professional Learning focuses on Digital Literacy.
- Focus areas can include ICT skills development, online assessments, and limited Core Curriculum (math, language, science, etc).

RECOMMENDED ACCESSORIES







Information and Communication Technology Models in Education

In Class

Devices are mobile and foster 1:1 learning environment. Teachers share access to devices and plan curriculum accordingly. Learning becomes more technology-enhanced but in short periods of time.





FEATURES

- An in classroom set of digital learning tools subject to availability to be used inside the classroom for all subjects.
- Also known as a Computers on Wheels model where the devices are on a charging cart and wheeled from room to room.
- Teachers plan curriculum according to availability of devices.

 In class digital learning usage propages students and teachers.
- In-class digital learning usage prepares students and teachers for a more comprehensive use of technology in a 1:1 environment.

 Professional Learning focuses on integration of technology into core curriculum and movement to a student-centered environment.
- Focus areas can include STEM, staff and parents communication, and online assessment.

RECOMMENDED ACCESSORIES

Headsets

Printer







Information and Communication **Technology Models in Education**

Personal 1:1

Personalized Learning. Anytime/anywhere/anyway learning. Fully integrated with core curriculum.





FEATURES

- The Personal model facilitates Personalized Learning, allowing device usage anytime, anywhere. The one to one computer model allows for improved usage of a wide range of digital materials and focuses on a true student-centered learning environment where students take control of their own learning through high quality education software, comprehensive digital content and tools.

 A faster connection also enables online assessment and evaluation.

 Measurement of skills and digital content is embedded in the curriculum.

 Teacher becomes a tutor and expert facilitator.

 Refresh cycle and security plans take place.

RECOMMENDED ACCESSORIES

Headsets



Printer

OPTIONAL





T Project RED: A Global Toolkit for Education Transformation, 2014 For more information click here 🕙

Bridging connectivity issue inside Classroom

Easy to service: open back to access battery, HDD, 3G/4G/LTE

Easy to mount in a classroom – bracket and screws included. Can be easily removed from wall mount for educator to transport from classroom to classroom OR to and from home

RJ-45 jack provides access to school Ethernet network

USB 3.0 port provides an additional easy way for educators to upload their content or for IT administrators to update device settings.





ICT in Education solution elements

- Technology: devices—cell phones, tablets, netbooks, laptops, PCs, servers and networks—communications and computing
- Connectivity: broadband Internet access, wired or wireless
- Digital Content: learning material from the Net, multimedia CD/DVDs, podcasts, or other digital media
- Improved teaching methods include student-centric models, project-based
- learning, etc.; and professional development that helps teachers effectively integrate technology into their curriculum.

And to facilitate your implementation you should have the following support systems

- 1. Policy
- 2. Funding
- 3. Metrics and assessment
- 4. Commercial industry partners



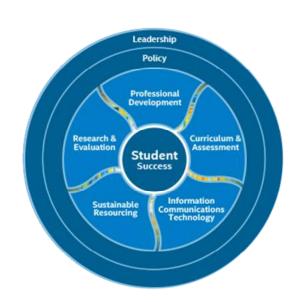
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Strategic Solution Design

Education Leadership
Development

Digital Curriculum

Development

Policy Development

LCMS & Learning Platform Solutions

Teacher Professional Development

Personalised Learning & Learning Analytics

Curriculum Design & Development

Infrastructure and Services

Assessment Plan & Solutions

School Server and Local Cloud Solutions

The Achievement of Measurable Learning Outcomes is key focus of the design and assessment



Supporting a worldwide Education Publisher and Content Developer Ecosystem



Education



- Education content from major publishers
- Innovative learning content and tools from innovators
- Core Curriculum and Supplementary Learning
- Rich interactive eBooks
- Creative Learning Tools
- Local Content Development

Investments in software & service industry drives local capacity development and youth

npioyment

Intel[®] Education Resources

3 years.

6 million implementations.

28 countries.

And growing.

Courseware and supplemental apps to support 21st century skills development



World-class resources

Curated courseware and supplemental apps



Multi-platform and OS

Use the device and OS that meets your needs



Global reach

Available in major languages from Intel® Education and global/local partners



Offline access

For anytime/anywhere usage



Easy to install

With support from Intel

3 easy steps to get Intel® Education Resources!



- 1 Send request for courseware
- or supplemental apps.http://inteleducationresources.intel.com/crt



2. You will receive an e-mail with a link to our Download Center where you can download the latest build.



3. Accept the license agreement to download.



Building Successwith Intel® Education

CURRICULUM AND ASSESSMENT

Intel Education Collaborates to Advance and Align Curriculum and Assessment

- Intel® Education Alliance: worldwide network of content and solution providers to expand high-quality, locally relevant content
- ATC21S: Research-driven assessment initiative supported by Intel, Cisco, and Microsoft
- UNESCO ICT-Competency Standards for Teachers
- International Society for Technology in Education (ISTE)
- Collaborative Assessment Alliance







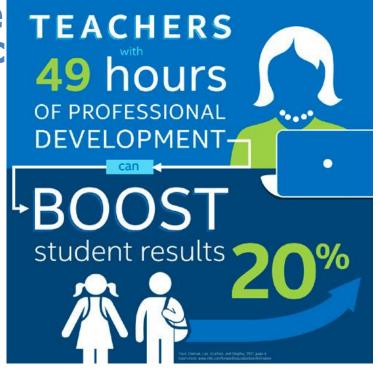


Professional Developme for Your Customers' Suc

It takes **5-6 YEARS** for teachers to **master technology integration**¹

INADEQUATE PD is a **significant barrier** to successful technology integration in schools¹

INFORMAL or GENERAL TRAINING has **little effect** on teachers' use of technology¹



For technology implementations to be successful, teachers need the skills to make effective use of the technology in the classroom

Intel® Teach Elements eLearning Courses

K12 teachers. Format: Facilitated or self paced online



Moving into Mobile Learning
Learn the benefits and challenges of mobile
learning, and how to create a successful mobilelearning environment in their classrooms.



Assessment in 21st Century Classrooms Learn to plan, develop, and manage student-centered assessment strategies for improved teaching and learning.



Designing Blended Learning
Explore transitioning to blended learning
experiences where some portion of learning occurs
online and outside of a classroom setting.



Project Based Approaches
Explore the features and benefits of project-based learning to engage students with self-directed learning.



Leadership in the 21st Century

For school Leaders: Explore school leadership practices and policy for effective digital learning

Creativity in the Mobile Classroom

Build on concepts from Moving into Mobile, learning to implement mobile learning effectively, while encouraging students' creativity.



Collaboration in the Digital Classroom

Design and manage collaboration activities that integrate online tools and prepare students for a globally connected world.



Inquiry in the Science Classroom

Explore ways to develop students' scientific thinking and practices.



Thinking Critically with Data

Examine critical thinking with a focus on data analysis – preparing students to think analytically in our knowledge-driven world.





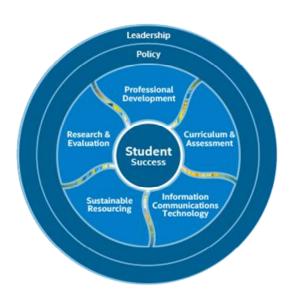
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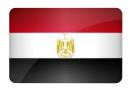




Education Transformation in Action

META Momentum





EGYPT

















Q&A



