



DIGITAL SKILLS FOR TRANSFORMATION

Dr. Sabine Huber,
Worldwide Education Specialist, Intel Corporation
November, 10th 2016

Legal Notices

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [intel.com](https://www.intel.com)

Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.

© 2016 Intel Corporation

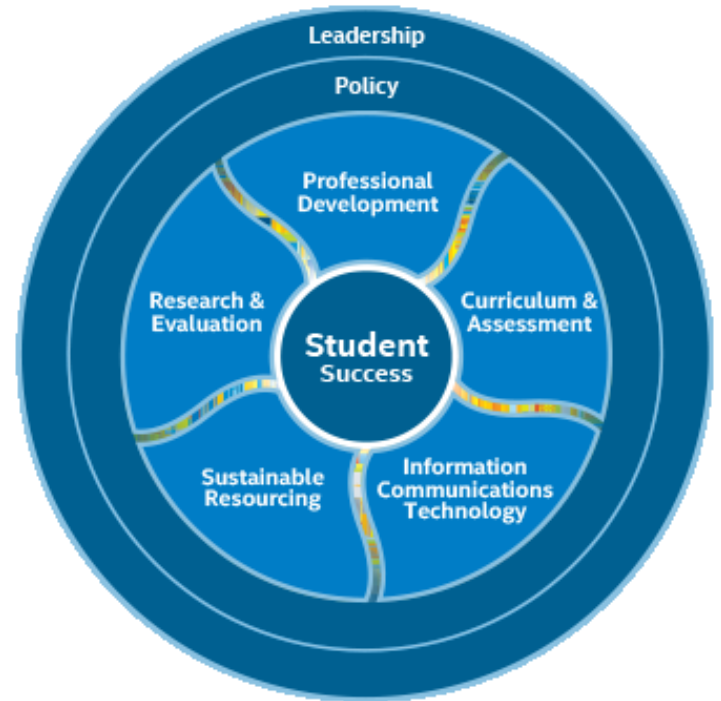
AGENDA: Transforming K12 Education

The Need for Transformation

The Model for Transformation

Working Together for Success

Achieving
YOUR VISION
of student success



“

Job 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

“

In a fast-changing, interconnected world, education must change to prepare students for success in life. The modern global economy doesn't pay you for what you know, because the Internet knows everything. The world economy pays you for what you can do with what you know.

”

— Andreas Schleicher, OECD

Benefits of Education Transformation



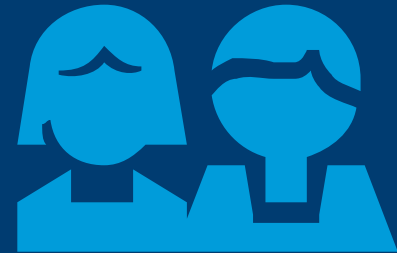
Employment and Economic Development

- Build 21st century workforce
- Reduce unemployment, increase GDP



Competitiveness

- Increase academic rigor and achievement
- Enhance innovation, creativity and entrepreneurship



Citizenship and Social Equity

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

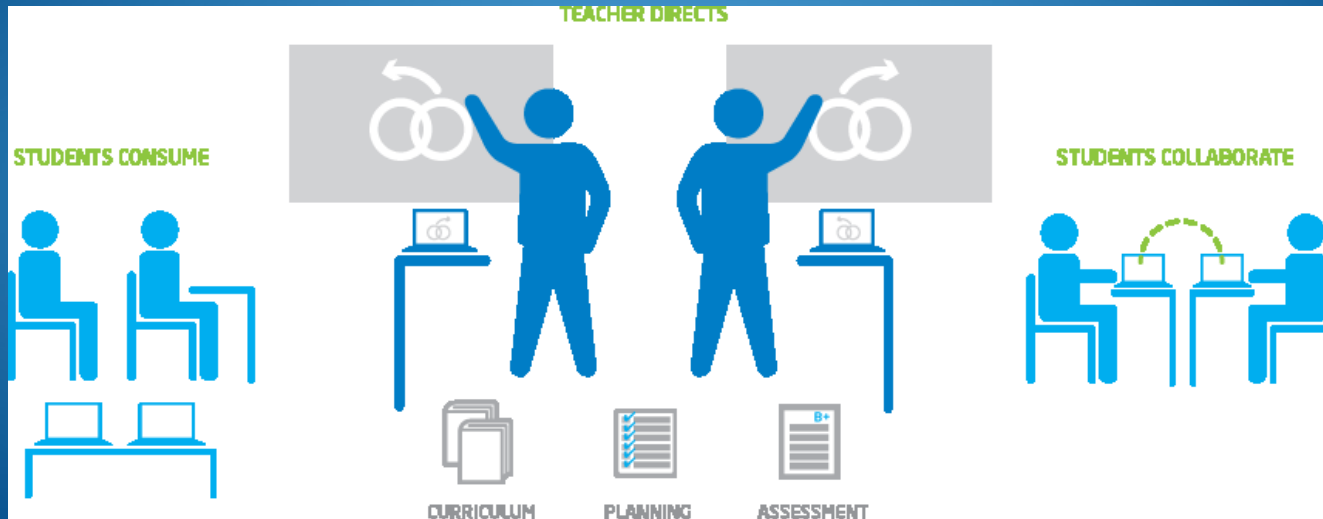
Shifting the Learning Paradigm

Traditional Teacher-Centered Classroom

Lecture-based knowledge dissemination. Limited use of technology.

Transitional Teacher-Centered Classroom

Lecture-based knowledge dissemination. Technology used for collaboration.



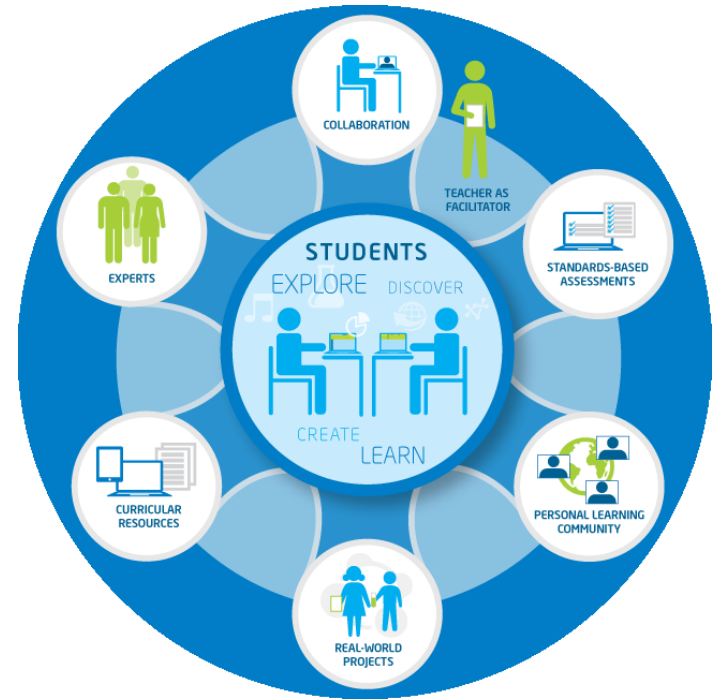
EVOLVING TOWARD STUDENT-CENTERED CLASSROOM

Shifting the Learning Paradigm

Student-Centered Classroom

Technology-rich environment enables learning any time, anywhere, any way

TECHNOLOGY has
changed the way
we **LIVE AND LEARN**



Establishing Goals

Transformation Starts with a Vision of Success



Achievement

- Higher rates of attendance and graduation
- Improved test scores



Equity

- Increased enrollment of girls overall and in STEM classes
- Connecting learners who would not otherwise be included
- Reduce the achievement gap between highest and lowest performing students



School Culture

- Higher levels of student engagement
- Increased attendance
- Decrease in behavior problems
- Increased teacher satisfaction



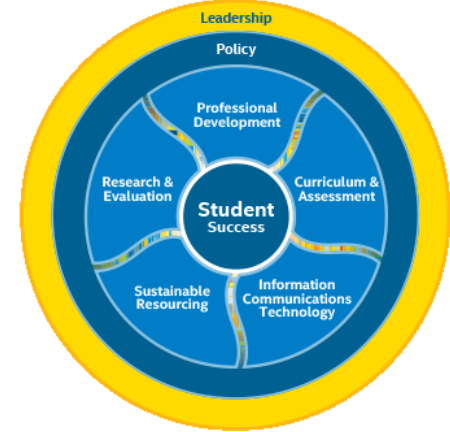
Societal Impact

- Increased alignment with workforce needs
- Increased female participation and achievement in society
- Increased active citizenship and lifelong learning
- Greater cross-cultural understanding

Leadership

Visionary Leaders Champion and Guide Significant Change

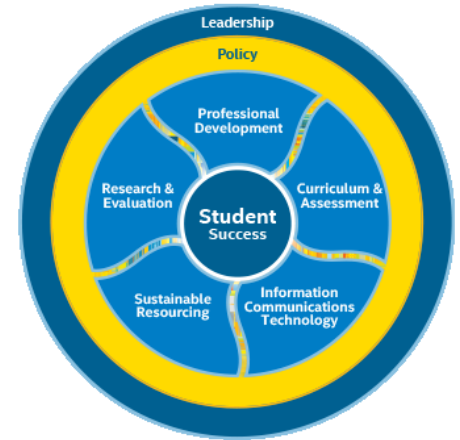
- Create a shared vision and roadmap for long-term change
- Develop and implement a flexible master plan
- Inspire enthusiastic stakeholder support and address concerns clearly and openly
- Lead organizational/cultural transformation and policy creation
- Model second-order change
- Develop a budget and identify funding resources
- Ensure ongoing program evaluation and improvement



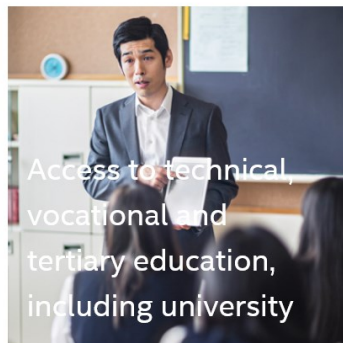
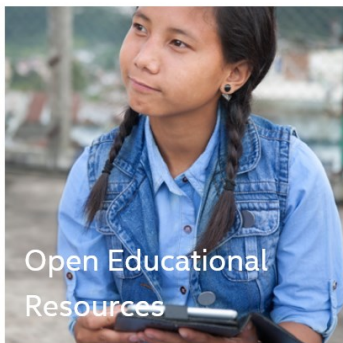
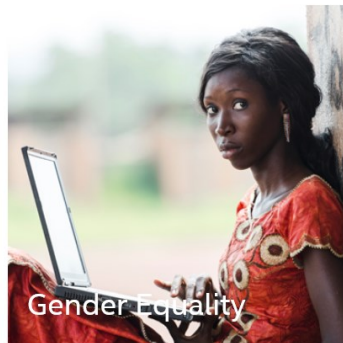
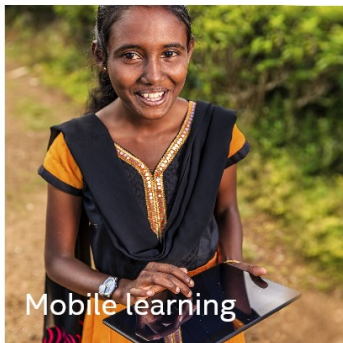
Policy

Setting the Framework for Success

- Maximize mobile device investment value
- Empower educators at all levels to use digital platforms and resources to the fullest
- Provide self-directed, blended-learning options for professional development
- Support the use of high-quality virtual and distance learning and digital content
- Offer students flexible paths to meeting graduation and curricular requirements
- Base device choices and infrastructure planning on learning goals and requirements
- Develop policy to protect data and student privacy



<https://www.ictedupolicy.org/>

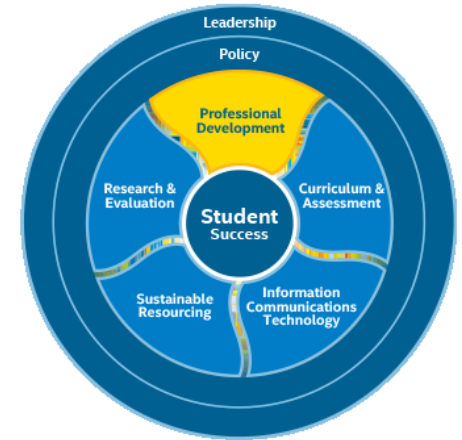


The joint UNESCO-Intel platform “ICT in Education Policy” supports countries to create and discuss forward-thinking plans and policies. People interested in the field of ICT in Education, such as ministry officials, academia, practitioners and other stakeholders, are welcome to freely access resources, news, events, and engage in policy discussions worldwide.

Professional Development

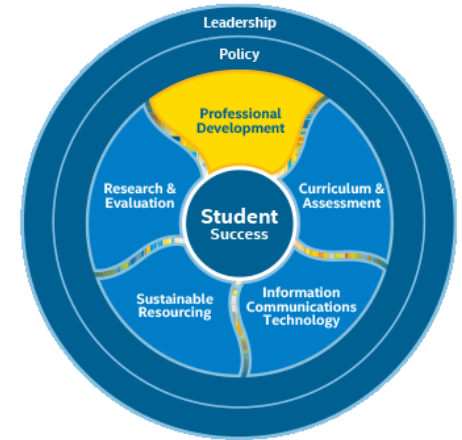
Empowers Educators to Transform Learning and Teaching

- Plays a critical role in education transformation
- Provides teachers with effective tools and ongoing personalized, blended, collaborative support
- Enables educators to
 - Integrate technology into all aspects of curriculum
 - Design a personalized program of study for each student
 - Help students become career ready



Attributes of 21st Century Teachers

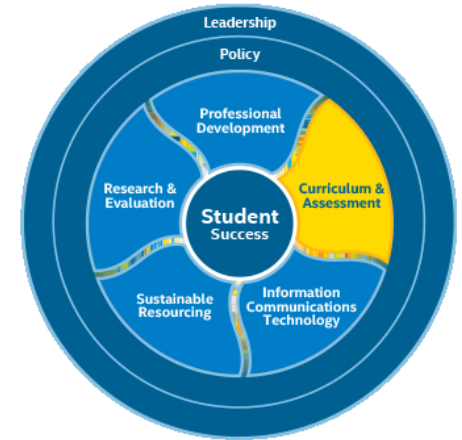
- Inspire student learning, creativity and innovation
 - Engage students in using digital tools to explore and solve real-world problems
- Design, develop and evaluate digital-age learning experiences and assessments
 - Use digital tools and resources to address diverse abilities and learning styles
- Promote and model digital citizenship
- Engage in professional growth and leadership



Curriculum and Assessment

New Ways of Learning, Teaching and Assessment

- Modernize the curricular framework; support next-generation learning models and platforms
- Incorporate ICT into teaching strategies
- Choose digital content and resources to support curriculum objectives, and align assessment with standards to improve learning outcomes



Assessment

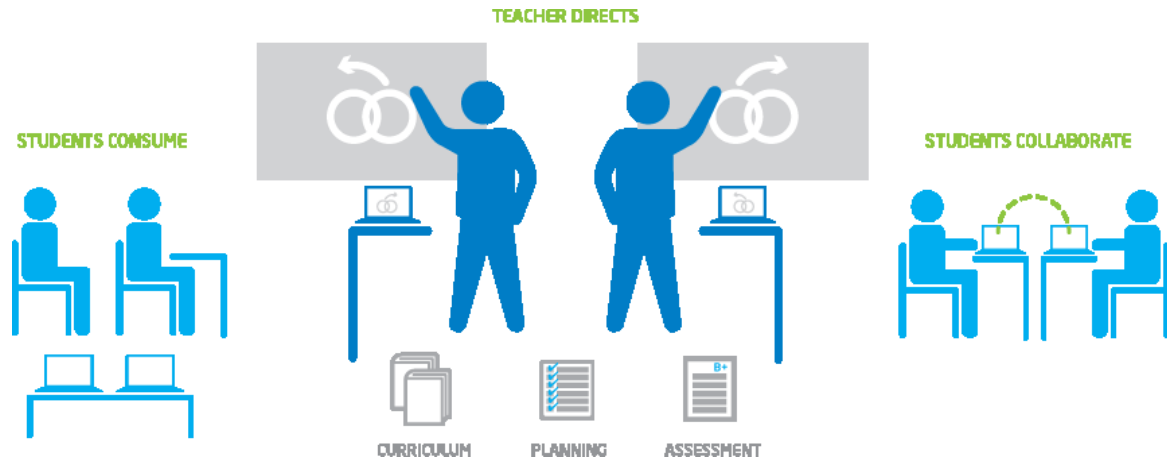
Effective Assessment Systems

- Link with standards, curriculum, pedagogy and professional development to form an integrated approach
- Use a variety of measures to evaluate performance (formative & summative)
- Involve teachers closely in developing the assessment system
- Use data to improve learning and teaching real-time
- Employ technology as an enabler



Attributes of a Student-Centered Learning Environment

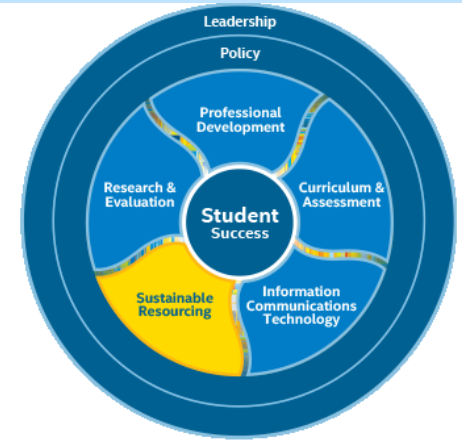
- Student-centered systems
- Clear standards and objectives
- Robust formative and summative assessment systems
- Continuous feedback improving students' learning
- Support for 21st century skills
- Inquiry-based learning approaches
- Personalized learning and new learning models
- Digital media curriculum resources
- Advanced open-ended learning tools
- Online managed learning and assessment systems



Sustainable Resourcing

Financial Planning Sets a Path for Sustainability

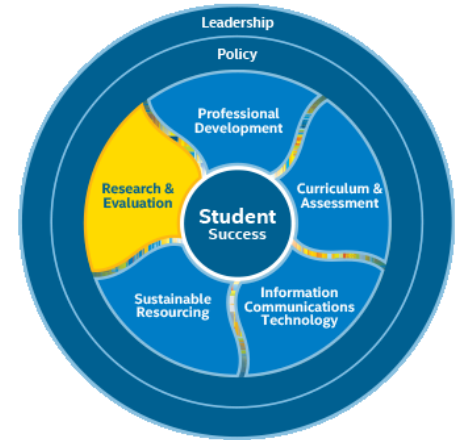
- Start from the initiative's objectives and requirements
- Develop a 7-10 year budget plan to demonstrate long-term commitment
- Consider the total cost of ownership associated with technology now and in the future - operational, infrastructure, software, operations, human support, licensing, digital content and professional development
- Identify cost-savings areas



Research and Evaluation

Creating a Cycle of Improvement

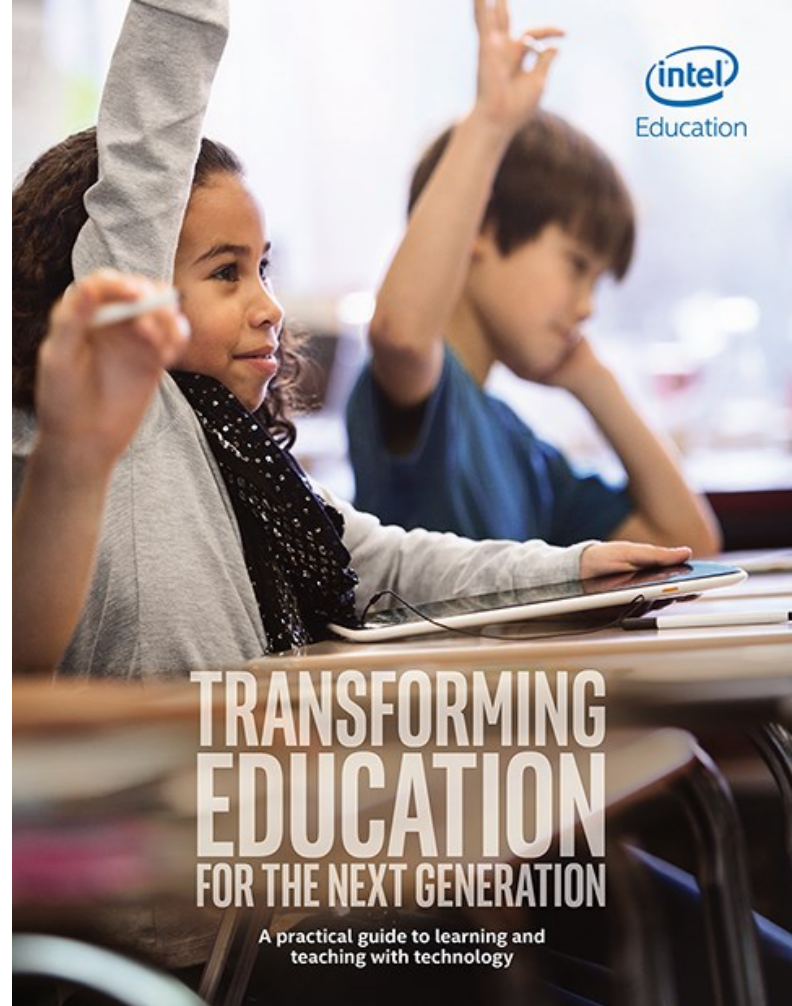
- Start with validated, reliable, research-based approaches
- Develop measurable goals and meaningful indicators of progress (metrics of effectiveness)
- Collect and analyze data to identify areas of success or needed improvement
- Communicate transparently to stakeholders and build consensus on next steps
- Consider evolving the plan or reallocating budget to improve evaluation outcomes



Introducing a Practical Guide for School Leaders

A new, step-by-step guidebook on transforming education with inspiration from global visionaries

www.intel.com/EduNextGen



Let's Work Together

Transforming Education for the Next Generation

- Develop students that are next-generation citizens, innovators and entrepreneurs
- Use the transformation model as a comprehensive approach that is delivering results around the world
- Provide powerful, practical programs, technologies and resources to help you achieve your vision of student success

More information: www.intel.com/education

Contact me: Sabine.S.Huber@intel.com

