21st CENTURY LEARNING DESIGN Learning that matters



Global Director, ITL Research Chief Research Officer, Michael Fullan Enterprises April 2013



Microsoft[.] Partners in Learning

75 million youth are unemployed

Almost 40 percent of employers say a lack of skills is the main reason for entry-level vacancies

McKinsey, Edu to Employment Report, 2012

between 40% and 60% of high school students are "chronically disengaged"

Klem & Connell, 2004

Economic Change and The Learning Challenge

	20 th Century	21 st Century
	Manufacturing for mass market	Designing knowledge-based products
Teacher	Delivery of content and information; development of basic skills	Guiding students' creation of knowledge-based products; development of higher order skills

WHOLE SYSTEM RENEWAL

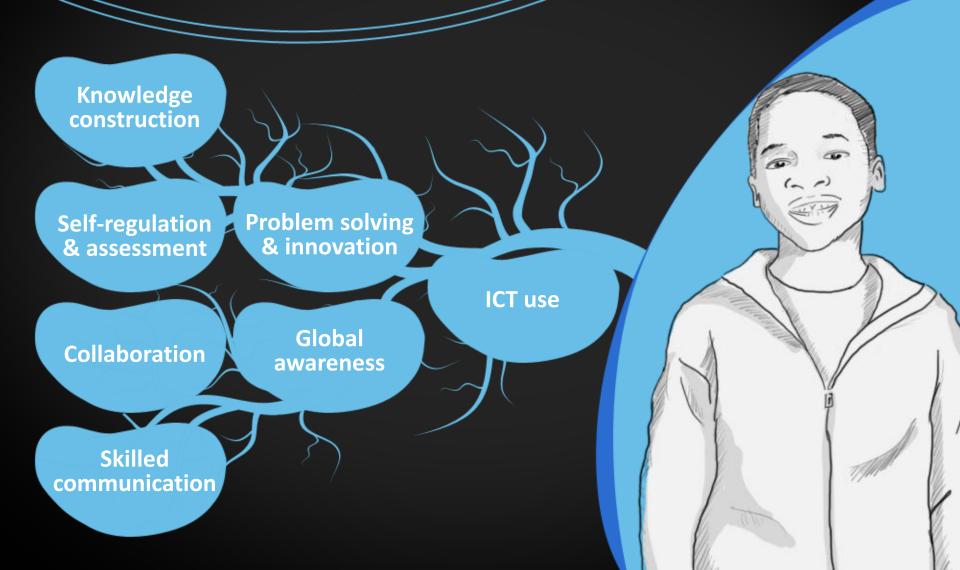
Education System Change

> School Leadership and Culture

Innovative Teaching Practices

Youth prepared to thrive in knowledge-based world enabled by technology

DEEP LEARNING FOR KNOWEDGE CREATION



ITL RESEARCH

Education System Change

School Leadership and Culture

Innovative Teaching

Practices

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Key Questions

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Microsoft[®] Partners in Learning Youth prepared for knowledge-based world

WHAT ARE **INNOVATIVE TEACHING PRACTICES?**

Student Centered **Pedagogies**

Extending Learning

ICT Integration

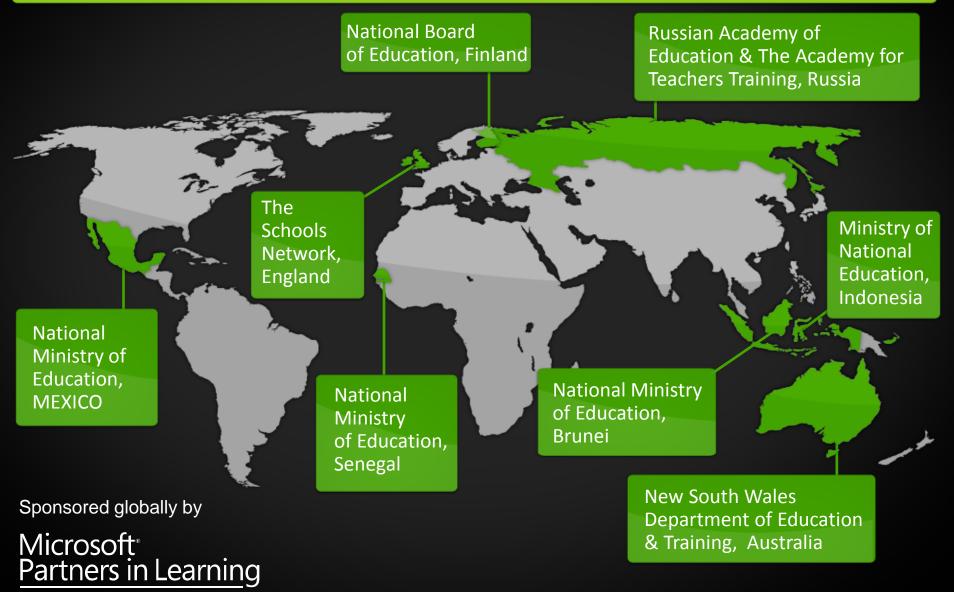
Problem solving Knowledge construction Personalized Collaborative Self-regulation

24/7 learning opportunities Global and cultural understanding

By educators By students Basic usage vs. Higher-level usage (for knowledge building and creativity)

8 COUNTRIES PARTICIPATED IN ITL

GLOBAL ADVISORY GROUP



ITL RESEARCH MIXED METHODS USED

Education System Change

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Across	159 survey schools24 site visit schools	
Teacher & School Leader Interviews	86 teachers 18 school leaders	
Teacher & School Leader Surveys	4,038 teachers 159 school leaders	
Classroom Observations	81 classrooms	
Learning Activity Analysis	967 learning activities	
Student Work Analysis	3,367 student work	

33 focus groups

Student Focus

Groups

Methods developed by SRI International

How Teaching Shapes 21C Learning

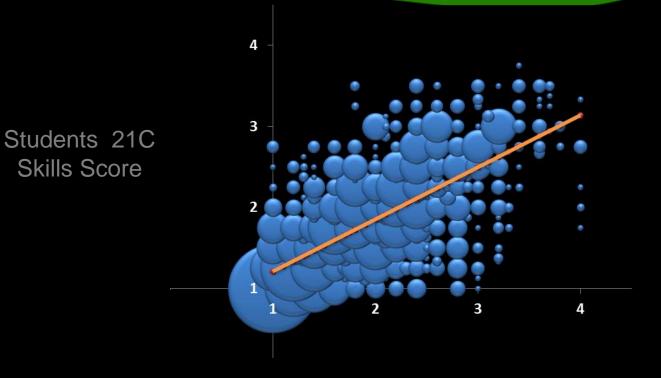
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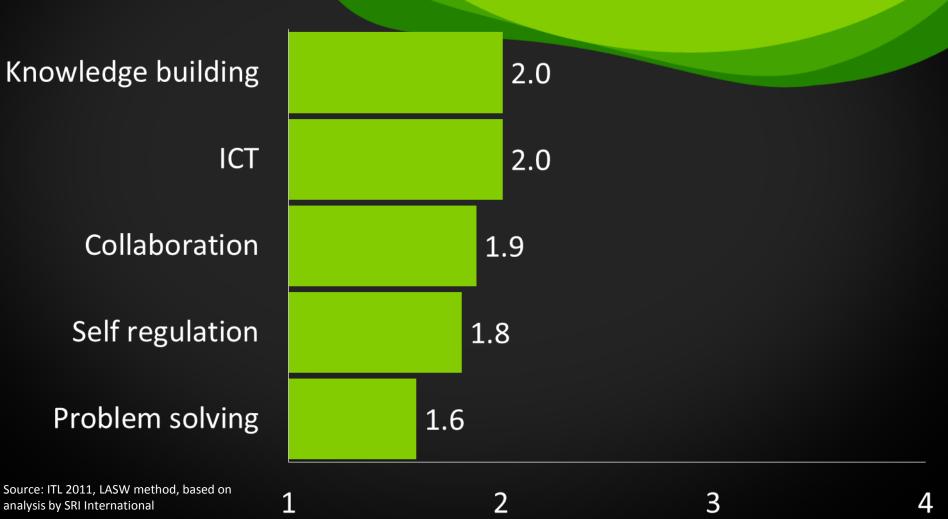
Individuals with skills for life and work today

INNOVATIVE TEACHING SUPPORTS DEEP LEARNING OUTCOMES...



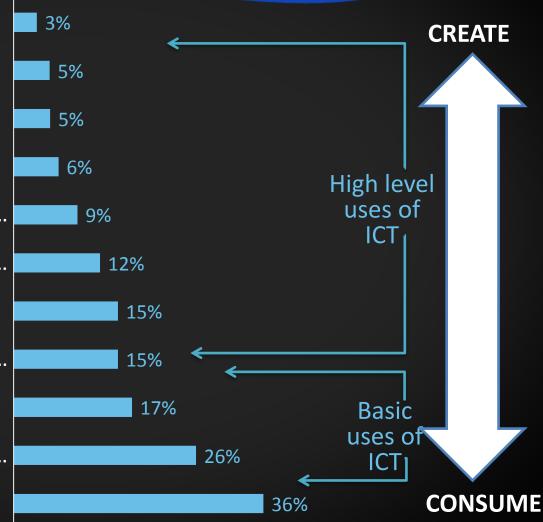
Learning Activity Score (Innovative Teaching)

ITL Rubrics for Learning Activities



HOW STUDENTS USE TECH...

Develop simulations or animations Work with others from outside class Use simulations or animations Create multimedia presentations Collaborate with peers on learning... Access class resources or online... Analyze data or information Write or edit stories, reports, or... Take tests or turn in homework Practice routine skills and... Find information on the Internet



Source: ITL teacher survey, 2011

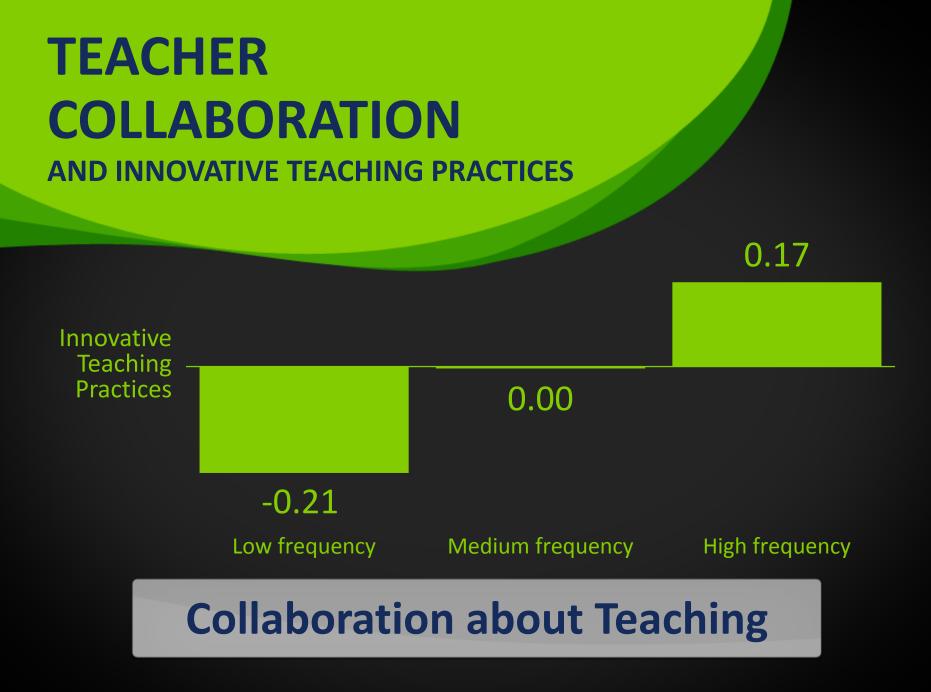


Student Centered Pedagogies

Innovative Teaching Practices Extending Learning

ICT Integration

Missing pedagogical elements of innovation



PROFESSIONAL DEVELOPMENT AND INNOVATIVE TEACHING PRACTICES

0.28 0.25 0.23 0.23 0.18 0.18 0.17 0.15 0.15 0.03

Practice a new teaching method Conducted individual or collaborative research on a particular topic Planned or practiced using ICT in teaching Reviewed and discussed student work Observed a demonstration of ICT use Developed or reviewed curriculum materials Received or delivered one-on-one coaching or mentoring Planned a lesson or a unit Observed a demonstration of a lesson

Listened to a lecture

Source: ITL teacher survey, 2011

SYSTEM DISCONNECTED FROM INNOVATIVE TEACHING PRACTICES

"My success is judged by examiners, by Ofsted, by parental choice... and what parents want, what children want is not necessarily what I would judge as innovation." School leader, England

> Student Assessments

School and Teacher Performance

Professional Development "Innovative practices remain individual initiatives of motivated teachers. Being an innovative teacher has no direct and explicit impact on one's career." Senegal ITL Report **Connect Systems:** Assessments and appraisals aligned with innovative teaching and learning goals

Cultivate innovation: Leaders who develop integrated and shared visions of innovation

Nurture adoption: Professional development that provides teachers collaborative opportunities to design and research innovative teaching

Enrich learning: Ubiquitous student ICT access

What is 21st Century

Learning Design?

DEEP LEARNING, **AND SKILLS** FOR KNOWLEDGE **CREATION**

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21st Century Learning Design

Teachers as collaborative designers of new learning experiences

> Students as collaborative creators of knowledgebased products

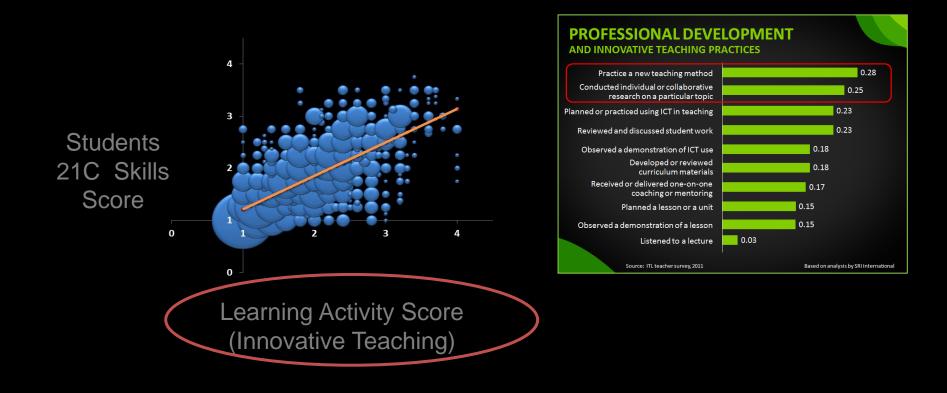
21st Century Learning Design

bridge between theory and practice of 21st century skills

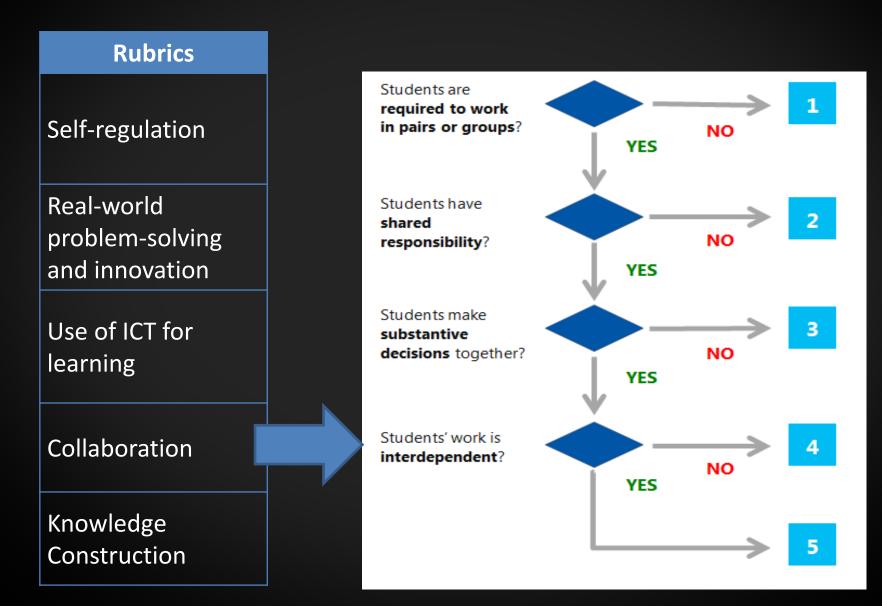
rubrics as framework for learning design

rubrics as lens for the collective analysis of student work

FOCUS ON LEARNING ACTIVITY DESIGN



ITL Rubrics: Framework for Learning Design



England







Mexico

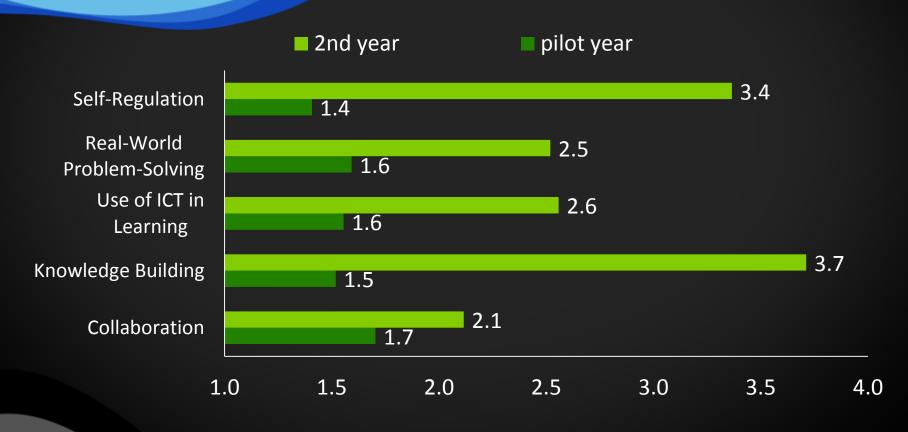
Brunei





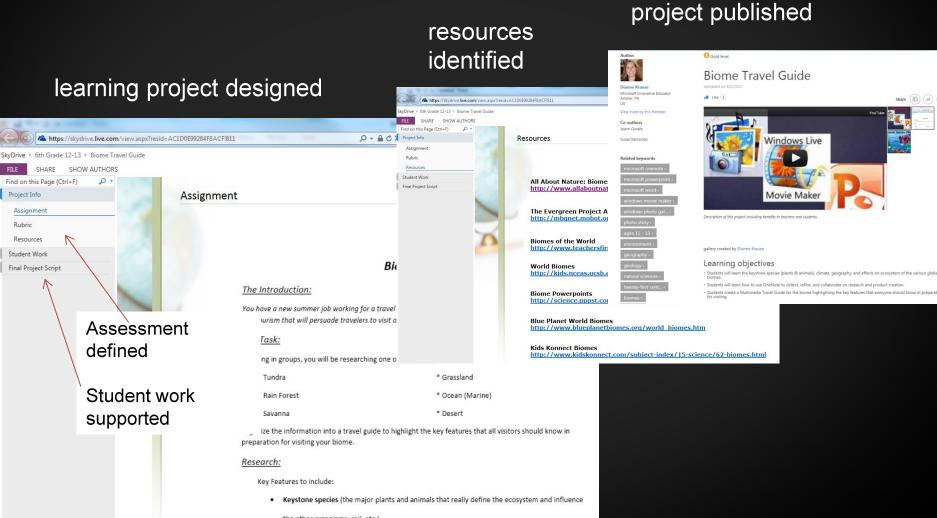
Teachers Collaborating in 16 countries

TEACHING CAN CHANGE, DRAMATICALLY



Case study from one school in Russia

Teacher-produced content



the other organisms, soil, etc.)

What students say

Student from South Africa in a school doing 21C Learning Design



"I feel as though we've come from a long culture of spoon-feeding at this school. But I have noticed during the past year that teaching practices are starting to change. A few teachers still spoon-feed, but the others are really making us think and are challenging us with different types of projects than in the past... | really don't want spoon-feeding, because it will come back to haunt me at University, as it did with my sister. I want to learn about research, debating, team work and all the skills I'll need in a job <u>one day."</u>

What does this mean for you?

- Shifting from content producers to content creation enablers
- Developing new content distribution ecosystems
- Enabling more local, more relevant, more personal learning content
- Re-engaging youth in learning that matters

www.itlresearch.com