



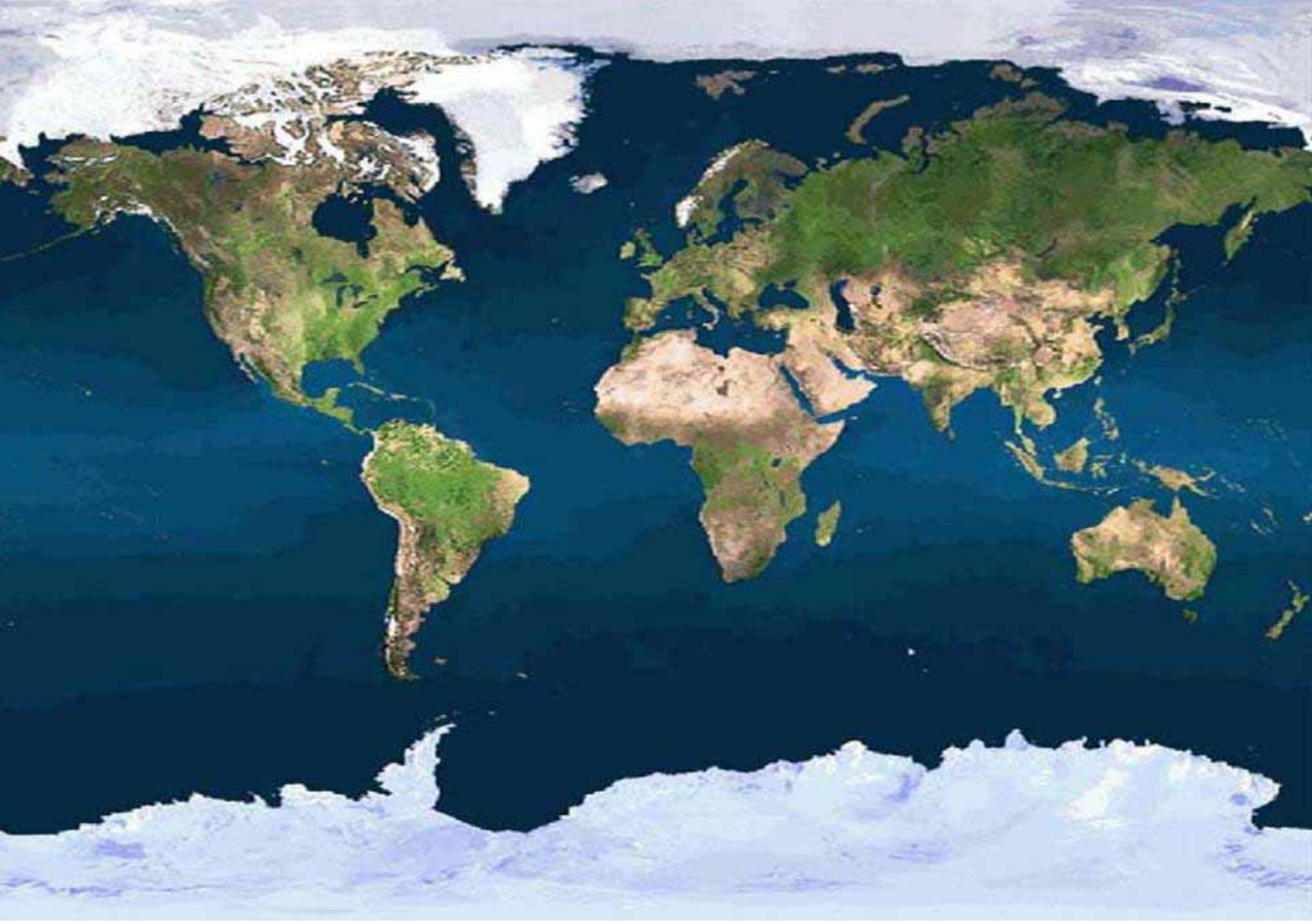
PARTNERSHIP FOR
21ST CENTURY SKILLS

21st Century Skills: How can you prepare students for the new Global Economy?

Charles Fadel
Global Education Research Lead

British Council - Going Global
March 15, 2010
London, UK





Globalization → Productivity → Education

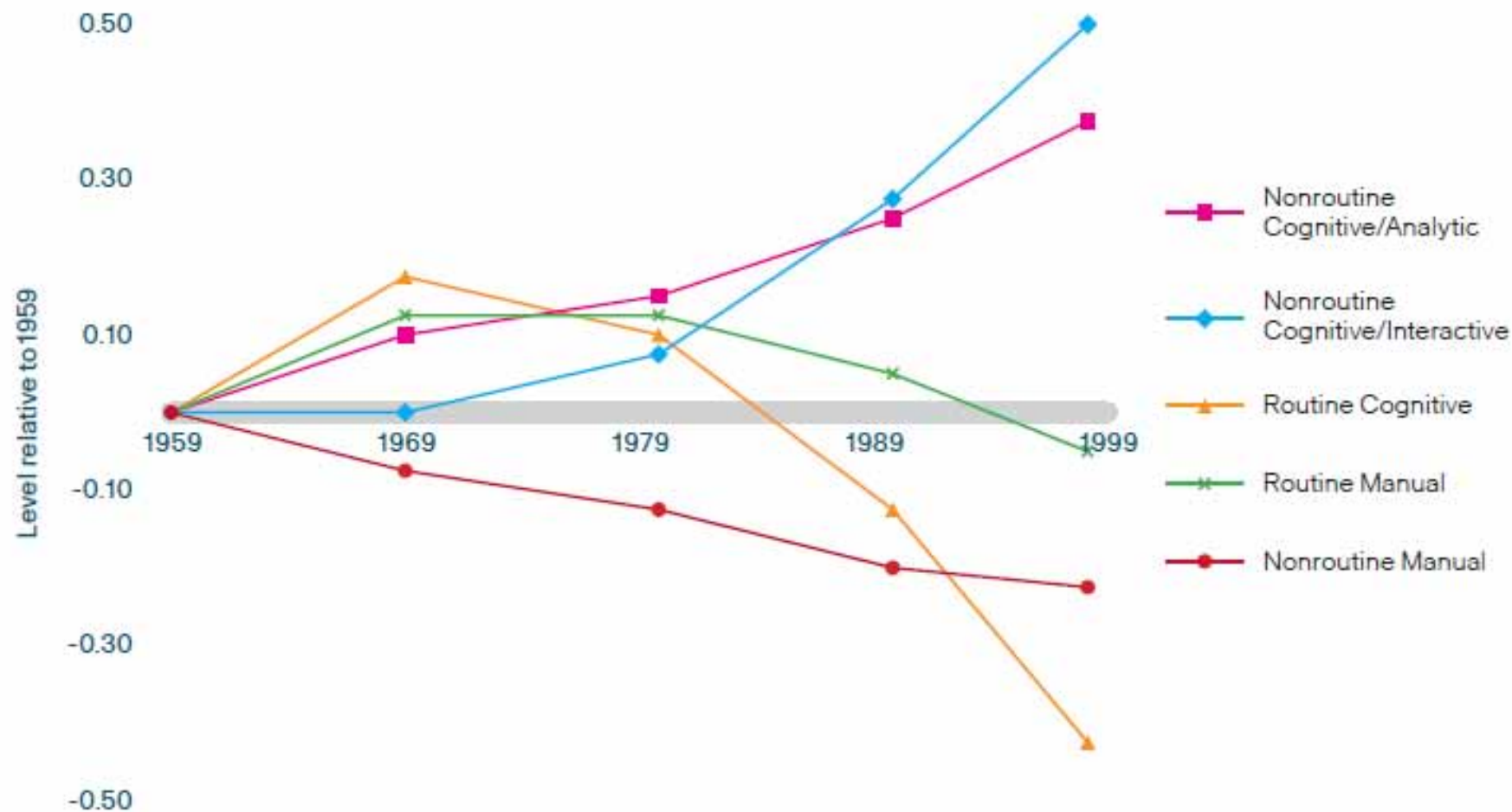
Globalization is Transforming Learning

- All countries are in a race to the top of the value chain
- Increased need for cultural understanding
- Increased need for personal identity
- Learning itself (and the education industry) has globalised



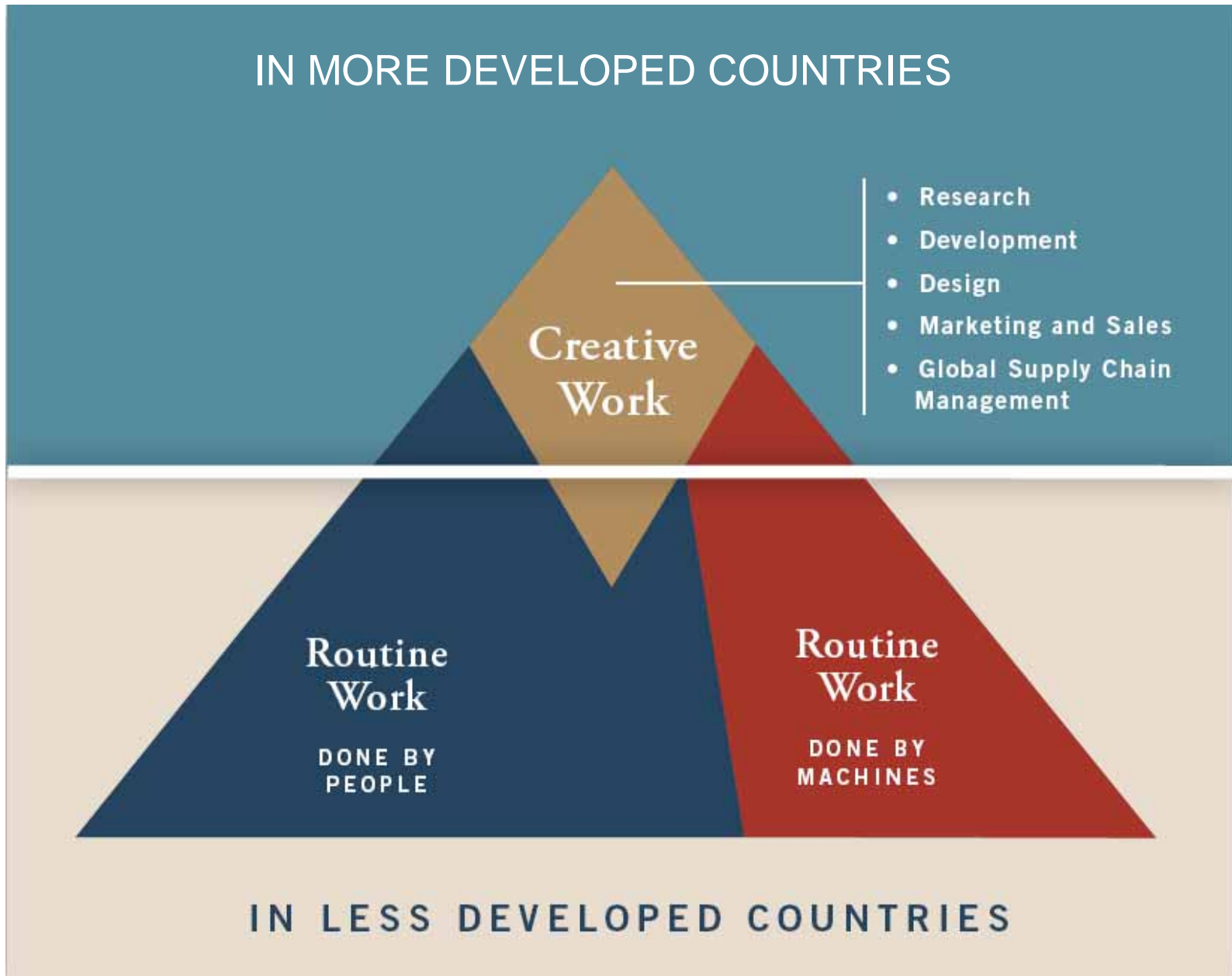
Accelerating Change Demands Different Skills

Figure 1: Economy-Wide Measures of Routine and Nonroutine Task Input, 1959–1998



From: Autor, D., Levy, F. and Murnane, R. (2001) "The Skill Content of Recent Technological Change: An Empirical Exploration." NBER Working Paper 8337. Boston, MA: National Bureau of Economic Research.

Race up the Value Chain



Source: “Tough Choices or Tough Times”
2007, National center on education and the
economy

Workforce Requirements Survey

Knowledge	Skills
English Language (spoken)	Critical Thinking/Problem Solving
Reading comprehension (English)	Communications (oral & written)
Writing (English)	Collaboration/Teamwork
Mathematics	Diversity
Science	Information Technology Applications
Government/Economics	Leadership
Humanities/Arts	Lifelong Learning/Self-Direction
Foreign Languages	Professionalism/Work Ethic
History/Geography	Ethics/Social Responsibility

Source: "Are they really ready to work ?" report by the Conference Board, P21 et al

The Popular Press Gets It

“This is a story about... whether an entire generation of kids will fail to make the grade in the global economy because they *can't think their way through abstract problems, work in teams, distinguish good information from bad, or speak a language other than English.*”

How to Build a Student for the 21st Century, TIME Magazine, December 18, 2006



The Leadership Gets It

“I'm calling on our nation... to develop standards and assessments that don't simply measure whether students can fill in a bubble on a test, but *whether they possess 21st century skills like problem-solving and critical thinking and entrepreneurship and creativity*”

U.S. President Barack Obama, March 2009

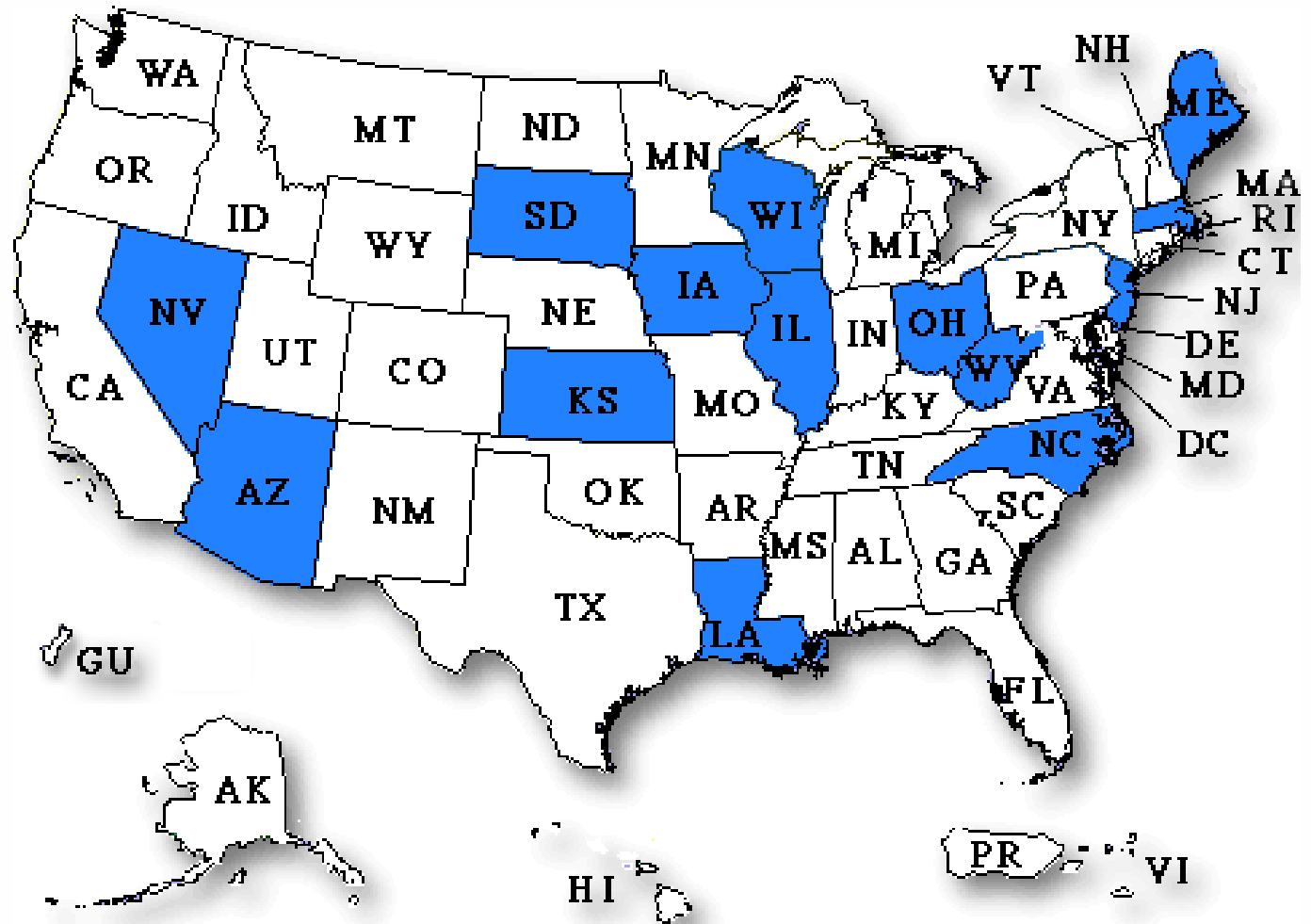
P21 Members

Circled: Founding members



Current State Partners

- Arizona
- Illinois
- Iowa
- Kansas
- Louisiana
- Maine
- Massachusetts
- Nevada
- New Jersey
- North Carolina
- Ohio
- South Dakota
- West Virginia
- Wisconsin



Global Interest



ASSESSMENT & TEACHING OF 21ST CENTURY SKILLS

THE UNIVERSITY OF MELBOURNE
CISCO | INTEL | MICROSOFT



ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

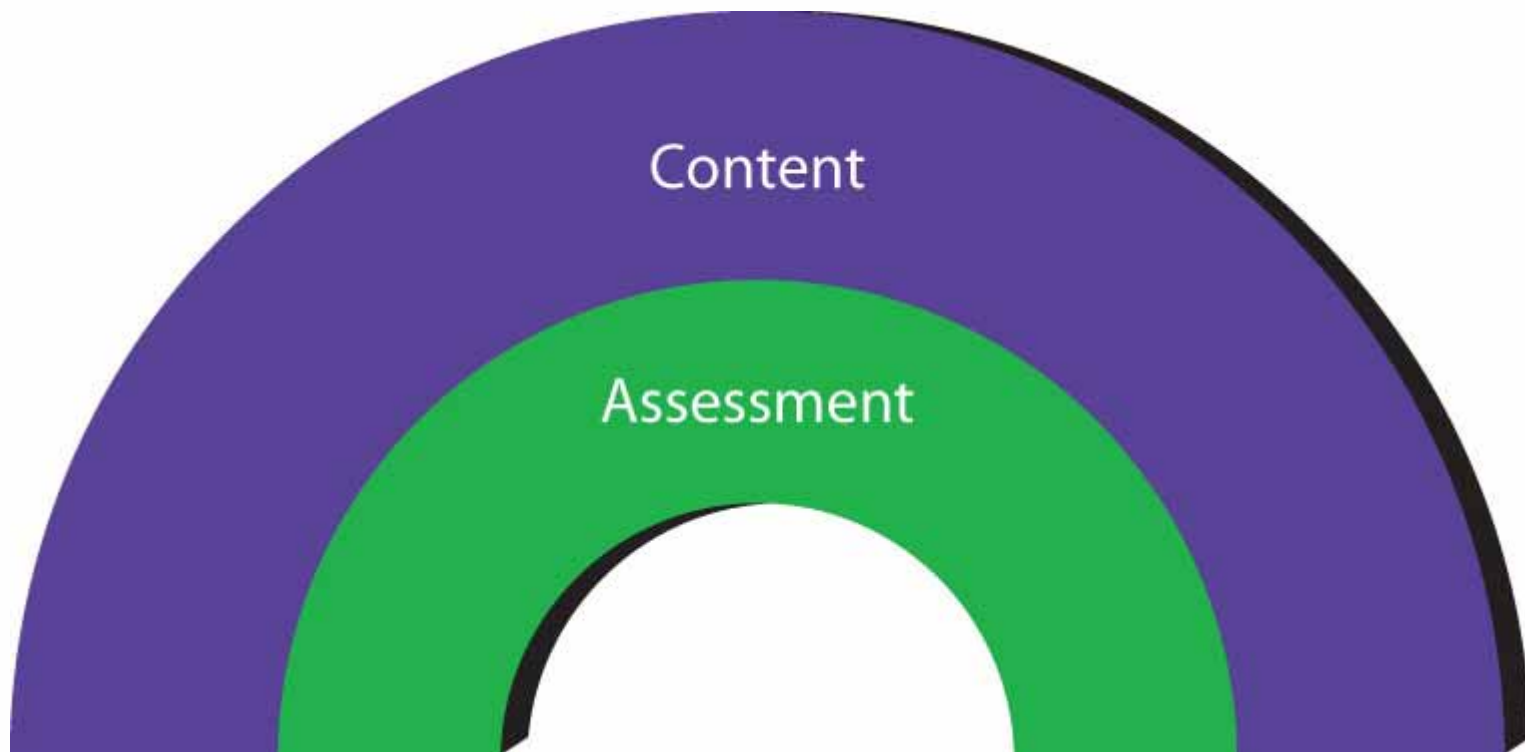
<http://www.atc21s.org/>

Signatories:

Australia
England
Finland
Portugal
Singapore
USA

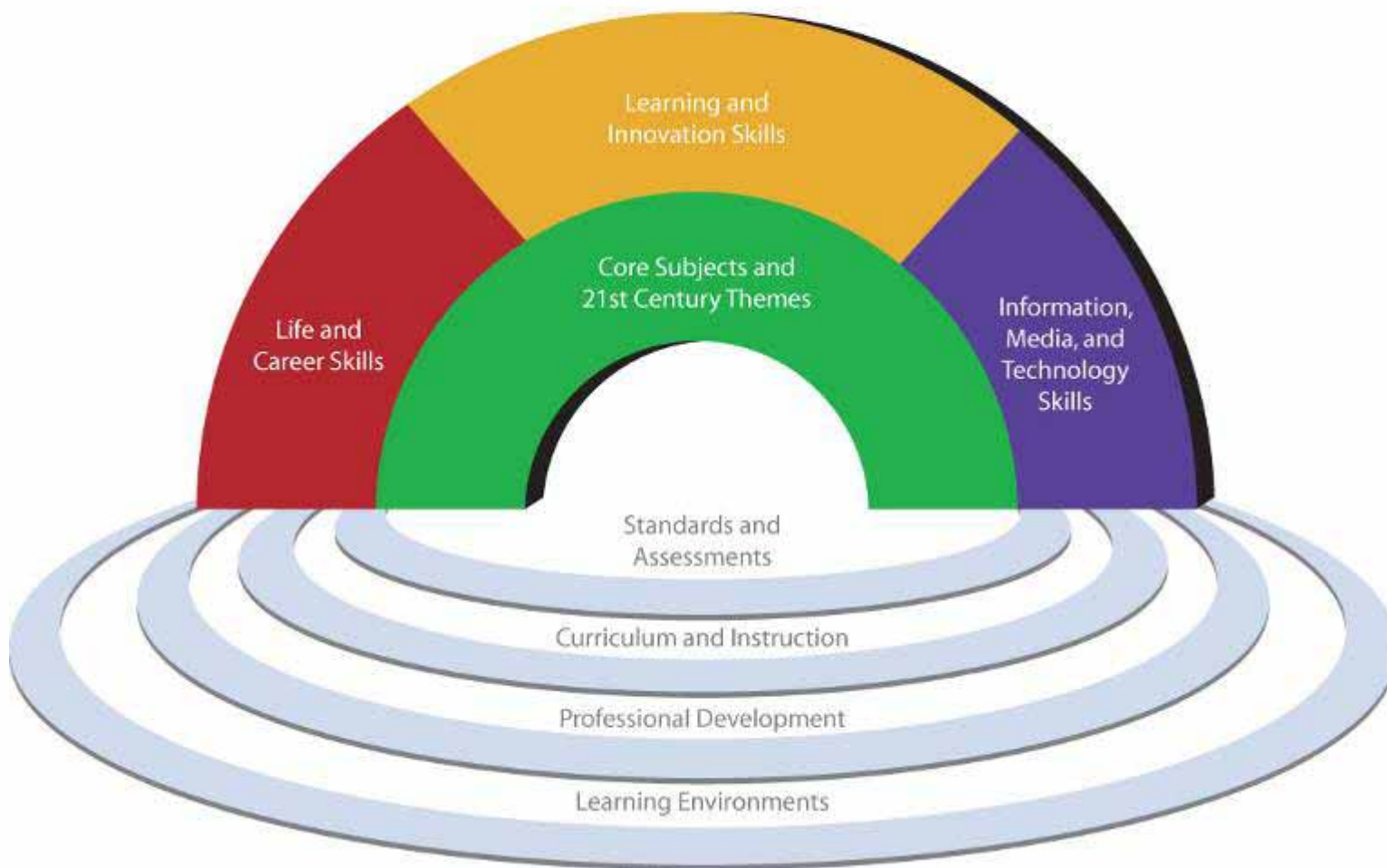


20th Century Skills Framework



21st Century Skills Framework

21st Century Student Outcomes and Support Systems



21st Century Skills Framework

Core Subjects

- Native Language/Reading
- World Language(s) incl. English
- Arts
- Geography
- History
- Mathematics
- Science
- Government/Civics

21st Century Themes

- Global Awareness
- Financial, Economic, Business and Entrepreneurial literacy
- Civic Literacy
- Health Literacy
- Environmental Literacy

21st Century Skills Framework

Learning & Innovation Skills

- Critical Thinking & Problem Solving
- Creativity & Innovation
- Communication & Collaboration

Information, Media & Technology Skills

- Information Literacy
- Media Literacy
- ICT Literacy

Life & Career Skills

- Flexibility & Adaptability
- Initiative & Self-Direction
- Social & Cross-Cultural Skills
- Productivity & Accountability
- Leadership & Responsibility

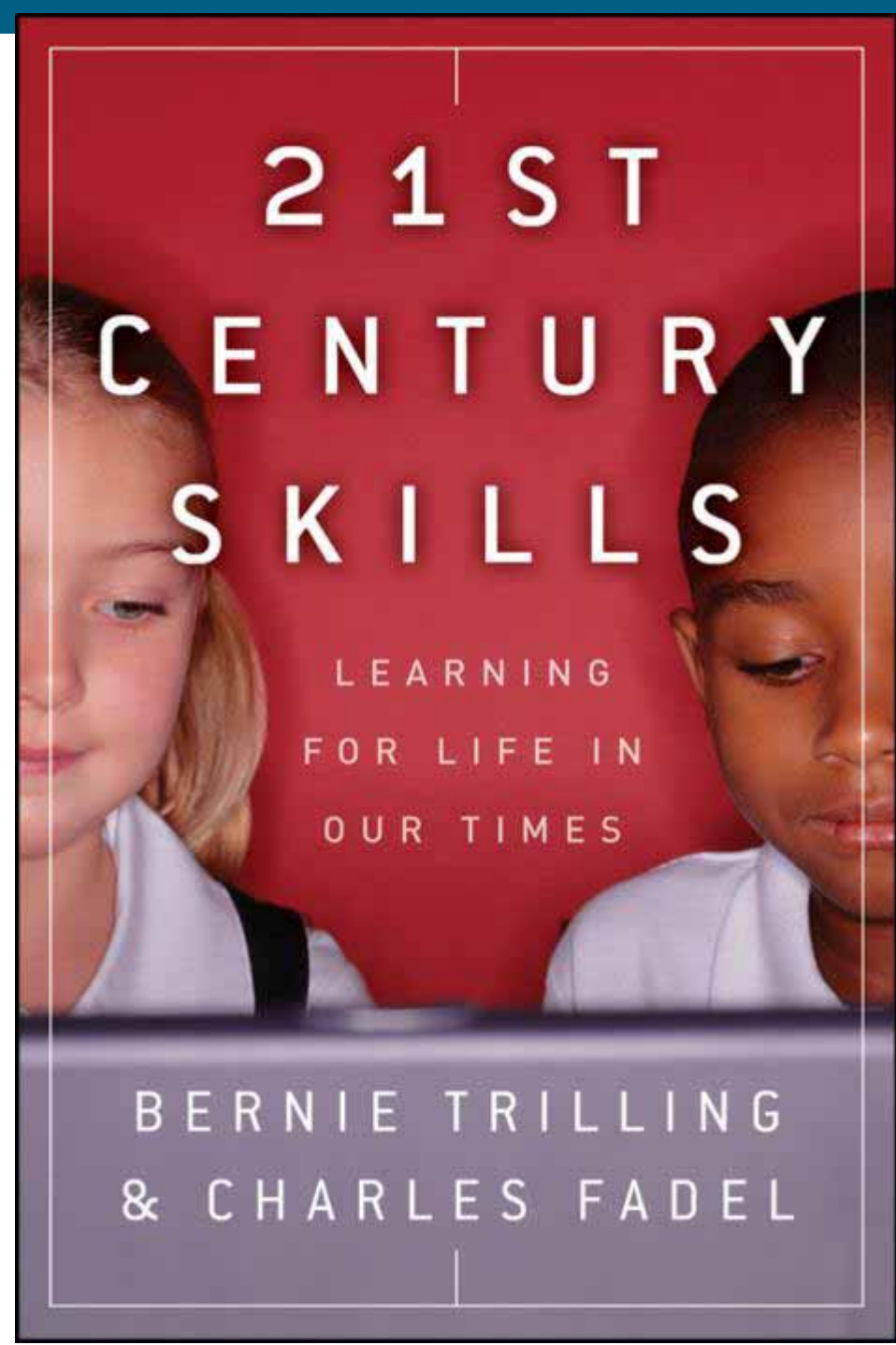
<http://www.21stcenturyskillsbook.com>

“The authors have done nothing less than provide a bold framework for designing a 21st century approach to education, an approach aimed at preparing all of our children to successfully meet the challenges of this brave, new world.”

Paul Reville, Secretary of Education,
Commonwealth of Massachusetts;
former director of the Education Policy and
Management Program,
Harvard Graduate School of Education

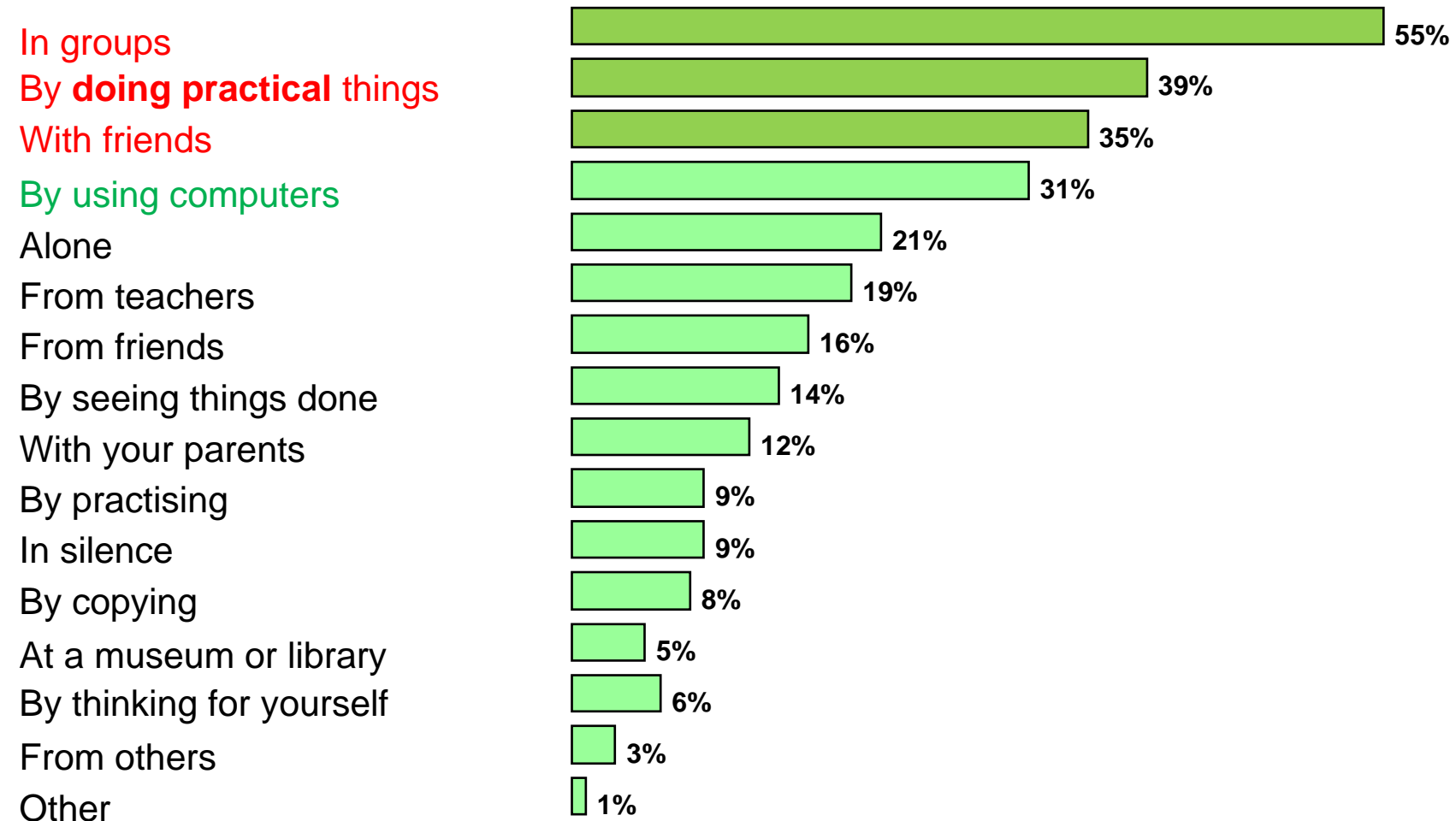
“*21st Century Skills* is full of interesting examples illustrating both what work will look like in the years ahead and how thoughtful educators are preparing children to thrive in tomorrow’s workplaces”

Richard J. Murnane,
Thompson Professor of Education and Society,
Harvard Graduate School of Education



Most preferred ways to learn

In which three of the following ways do you prefer to learn?



Education Challenges (1)

WHAT is taught:

- **Skills**, not just Knowledge (critical thinking etc)
- **Relevance** to real-world (for motivation, and employability)
 - Rigor of curriculum (cohesiveness, and applicability)
 - Interdisciplinarity (embedded in curriculum, and collaborative)
 - STEM as careers, *and* as literacy for all
 - Mandatory English in non-english-speaking countries
 - Stressing creativity (and innovation → Entrepreneurship)
 - Credentialing of industry certifications
 - Credentialing of global courseware (including free)
 - Microcredits for fast retraining (even for engineers/scientists)
- Good lifelong learning habits !

And consequently adapting curriculum at Teachers' colleges too

Education Challenges (2)

HOW curriculum is taught:

- Flexibility in time and space (24x7x365)
- Reduce overall duration (essential vs superfluous)
- Constructivist (Project-based with designs, inquiries, simulations, portfolios etc) not only Didactic
- Involving real-world experts and tools

Prove ROI:

- Beyond accreditation and brand - lifetime earnings
- Improving enrollment, attendance, completion
- Career coaching of students





The Internet Is Changing the Way We Work, Live, Play, and LearnSM

