



Education For The Better World

Japan Education Forum XI
Impact & Challenges of Globalization
concerning Education in Developing Countries

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World Is Becoming Increasingly Complex...

Big Global Challenges Ahead of us

Water



Healthcare



Education Access



Climate Change



World Seeing New Divides...

Example of Digital Divide



- + Demographic divide
- + Innovation demand – supply divide

New Aspirations In The World..

Fullfilling dreams and building diverse careers

A young boy in Singapore wants to become Nursing Assitant. He is passionate about helping old aged people in his community as he has seen sufferings



Young girls of India having aspirations of using robotics for solving world food chain inefficiencies and building smart agriculture practices



New age aspirations & career readiness – are our schools and colleges ready for that?

Diverse Workforce Needs Of The World

Emerging employability agenda for socio economic growth

Dubai (UAE) wants to position itself as Tourism hub of the world given geographical center. And working to attract, prepare > 1million people to be employed directly or indirectly in whole tourism sector



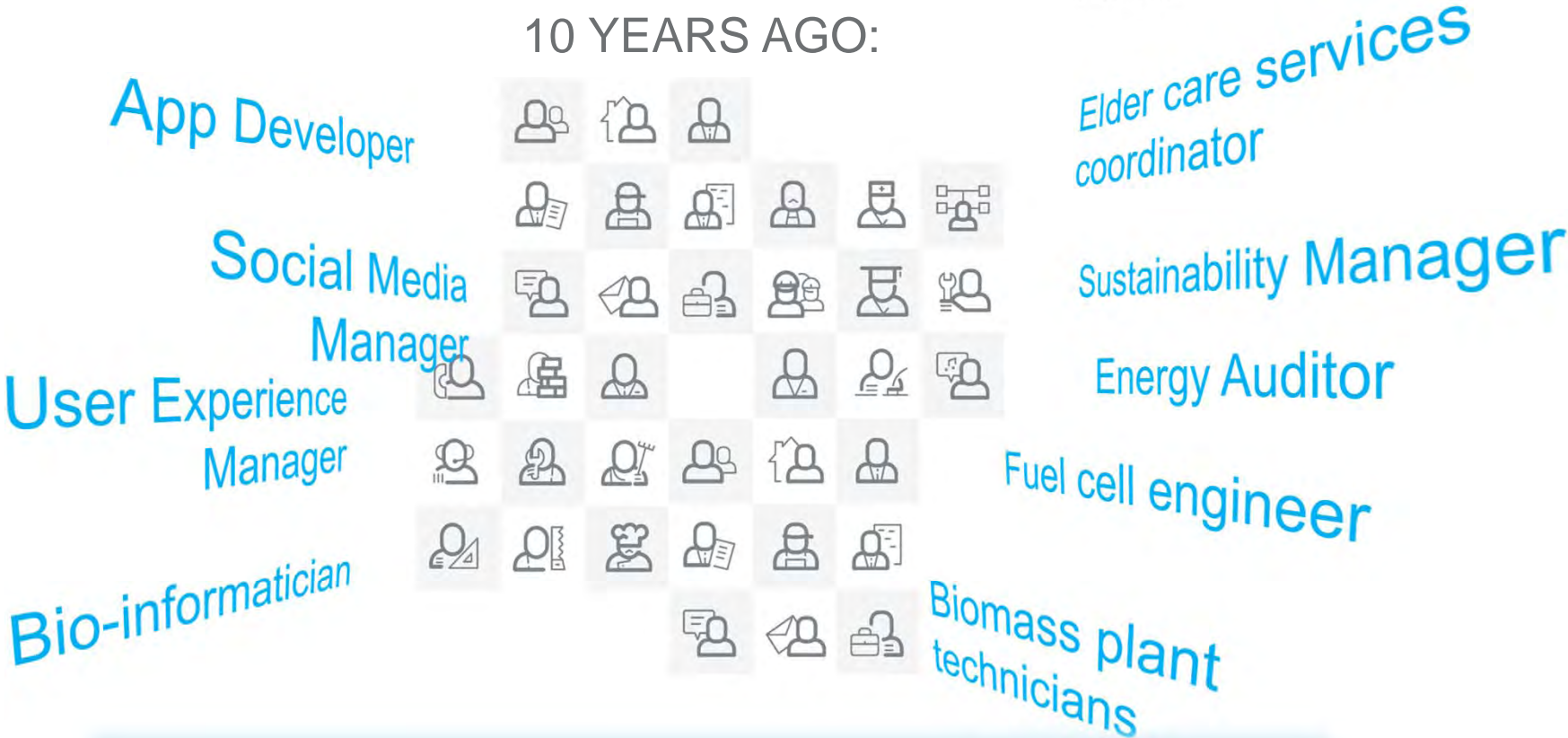
With population poised to be 9 billion & having smart living needs, construction sector struggling to attract talent to meet the need of diverse professionals of, sales, insurance, planners, designers, architects, energy expert, construction engineers, labors etc



Job creation & preparedness is the biggest socio political agenda :
Is current education and employability ecosystem ready for that?

The Jobs Of The Future Have Not Been Created

FAST JOBS GROWING THAT DIDN'T EXIST
10 YEARS AGO:

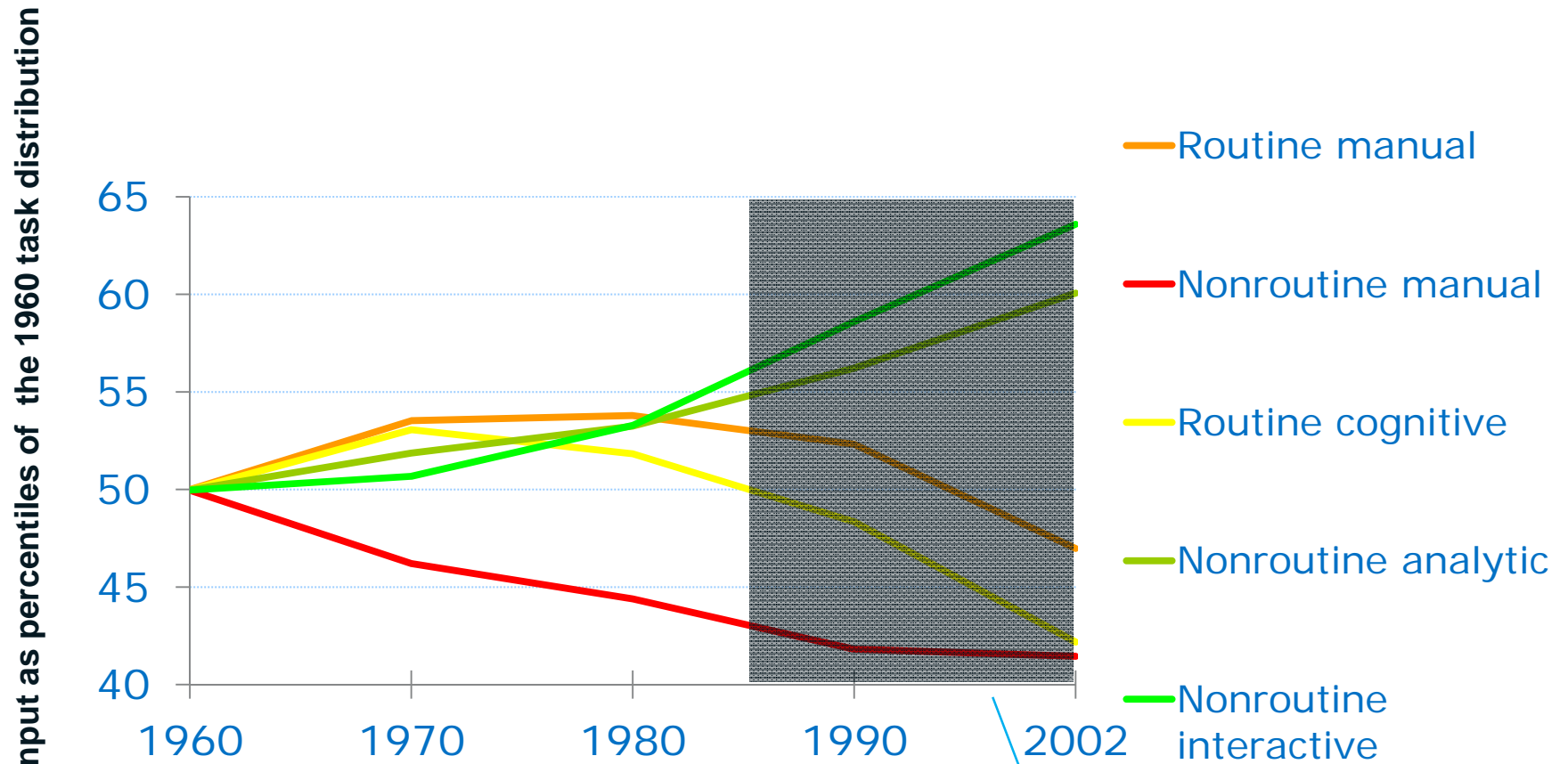


McKinsey Global Institute estimates that by 2020 there will be a global shortfall of 85 million high- and middle-skilled workers.

Source: Education to Employment, McKinsey 2012

How The Demand For Skills Has Changed

Economy-wide measures of routine and non-routine task input (US)



(Levy and Murnane)

The dilemma of schools:

The skills that are easiest to teach and test are also the ones that are easiest to digitise, automate and outsource

Is Current Education Ready As Engine Of Innovation?



It is not just about access and quality any more..

Skills: New Currency For Success In New World

21st Century Skills

These are the students will need be prepared for future and tackle grand challenges are before us.



Communication



Critical Thinking



Problem Solving



Digital & STEM
Literacy

**Preparing
students
for future
success in
a global
information
society**



Collaboration

Where Do Students Learn Today..



LIFELONG AND LIFEWIDE LEARNING

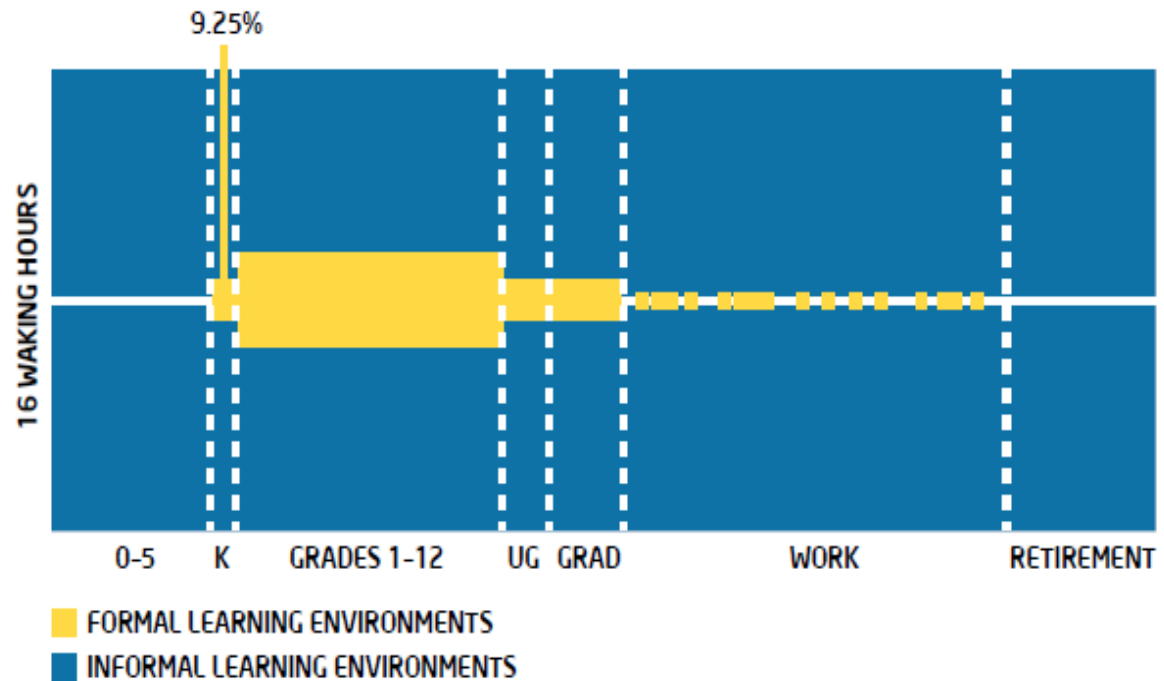


Figure 2: Estimated time spent in school and informal learning environments: this diagram shows the relative percentage of their waking hours that people across the life span spend in formal educational environments and other activities (LIFE Center, see: Banks et al., 2006).

21st Century Learners – EPIC Generation

Futurist Dr. Leonard Sweet describes learners grown up in a technology abundant world as “EPIC” generation

- E – Experiential I want more than a lecture. I want an experience that provokes and incentivizes me
- P – Participatory I want to participate in the outcomes of the program. I want to upload my thoughts
- I – Image Rich I want a picture to engage me, help me explore new perspectives and retain ideas
- C- Connected I want to interact with others socially on the issues in person & through technology

The Shifts In The Modern Learning Paradigm....

**The Social
Learner**

...moving
from Me to
We

Self-directed

...moving
from
Dependency
to
Autonomy

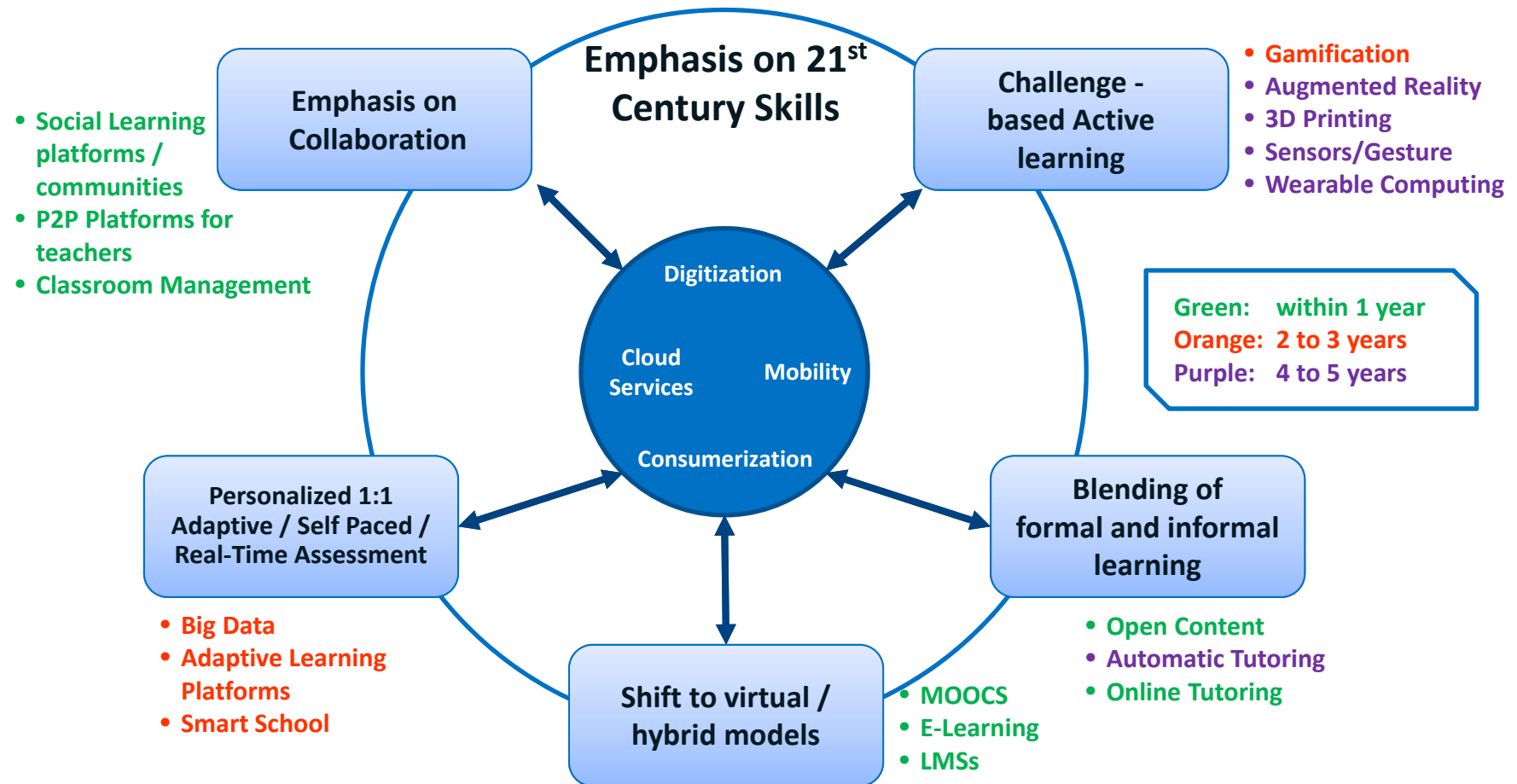
**Inquiry-
based**

...moving
from the
Known to
the
Unknown



Technology In Education – Tipping Point For Change

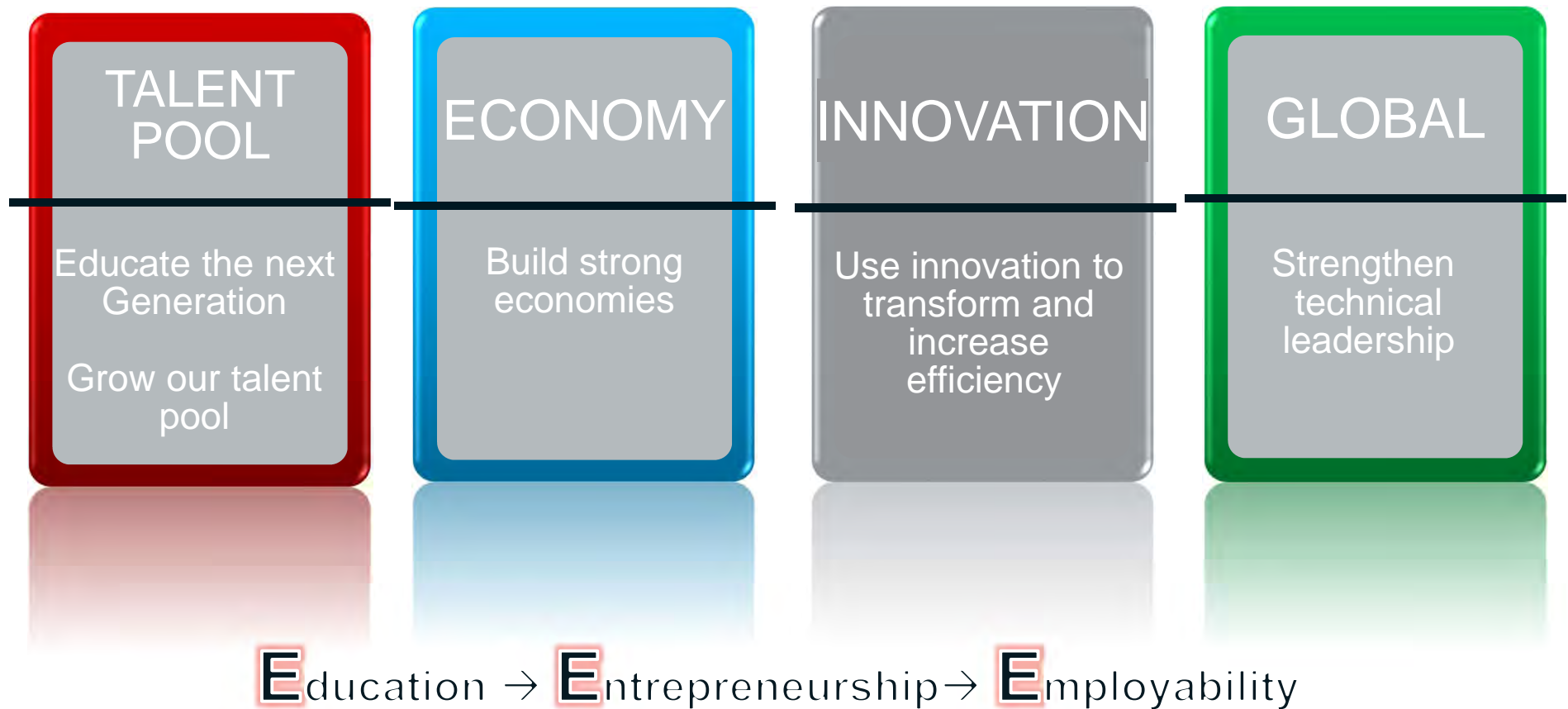
Some key trends already visible in education systems



Source: K12&Higher Ed Horizon report, Education Market Map, Futuresource UNESCO, EMPG Q3 2012 Competitive update, Edsurge....

Every Nation Can Be A Learning Nation In 21st Century

Through Innovations in Education & with help of ubiquitous technologies



So What Is Intel Doing?

Mission : Advance excellence in education worldwide.



Vision: This decade we will create and extend computing technology to connect and enrich the lives of every student on earth.