





# HUGE impact of KEY changes

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# The World is our Classroom



**300+ Programs**

**100+ Countries**

**15 Million Teachers Trained**



***“We have the opportunity in our  
lifetime to leap ahead from  
Information Access to  
Innovation Society”***

**Dr. Alicia Bañuelos  
Minister Science & Technology  
San Luis, Argentina**



A blurred background image of a school hallway with children walking. The image is overlaid with a blue gradient.

“

*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



# New Digital Divide ?



**CONNECTED** ✓

**ENGAGED** ?

# Global Skills Gap

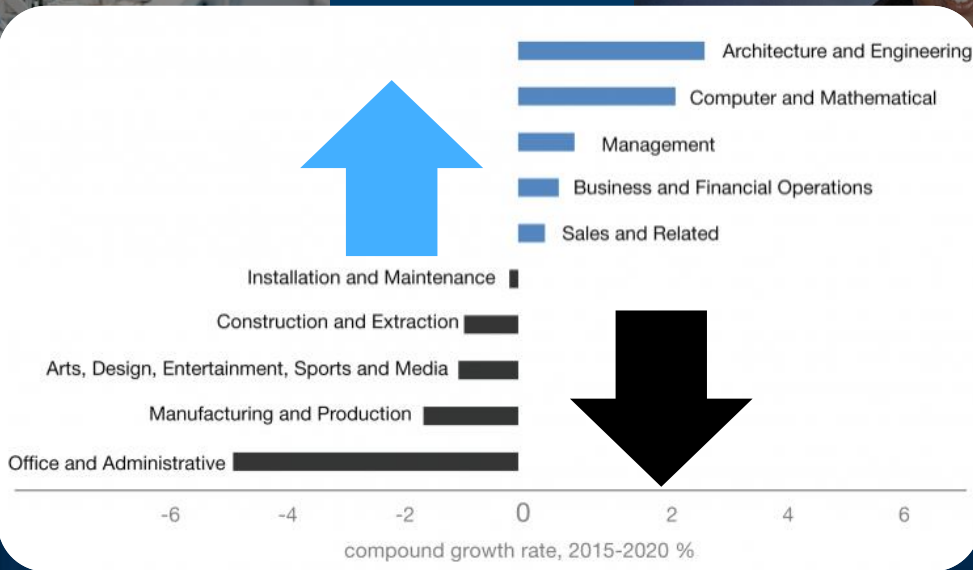
Demand is  
outpacing  
skilled graduates  
worldwide.

More than  
**50%**  
of today's jobs  
require technology skills

Within the next decade,  
demand for these skills  
will jump to  
**77%<sup>1</sup>**

1. *Technology skills training critical to employ low-income youth*, September 2014  
<https://www.devex.com/news/technology-skills-training-critical-to-employ-low-income-youth-84377>

# Where is the growth?





# Required Skills





# Required Skills

- ✓ **Critical Thinking**
- ✓ **Collaboration**
- ✓ **Communication**
- ✓ **Problem Solving**
- ✓ **Project Leadership**
- ✓ **Technology Literacy**

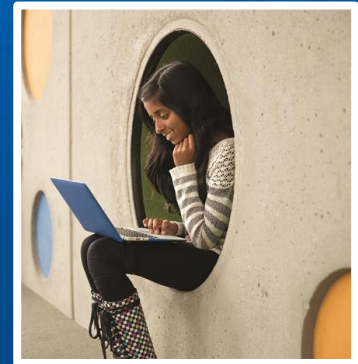


## CREATIVE THINKING AND ACTIONS SCALED VIA TECHNOLOGY

# Innovation Economy

Education → Entrepreneurship → Employability

- **Increase Country Competitiveness**
  - Enhanced teaching & learning for all
- **Build Required Competencies**
  - New job skills & re-skilling
- **Boost Economic Development**
  - Grow ICT industry base, jobs & revenue
- **Enhance Citizenship & Social Cohesion**
  - Narrow divide, include rural, sustain locally



# Intel's Vision for Education

*360° Learning Experience*

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**Engaged Student &  
Empowered Teachers**

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**Leverage technology to  
enhance student success**



# Education ICT Trends

## 1. Anywhere & Everybody learning

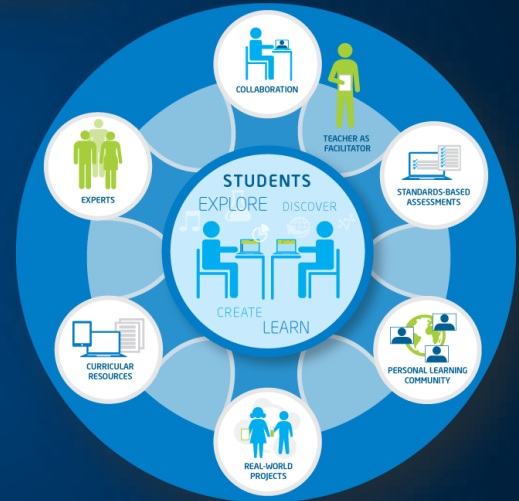
- One to One Learning
- One to Many Devices
- Time Shift Learning

## 2. Dynamic content

- Information Networks are dynamic and social
- Teacher & Student Generated Content
- Educational Gaming
- Virtual Tutoring

## 3. Real time calibration enabled by cloud

- Just in Time content access
- Real Time Assessment
- Manageable and Secure Scaling Models
- Tailored Education Services





A group of students in a classroom setting, with one student in the foreground giving a thumbs up.

**“The biggest risk for our education system is to do nothing new and expect to get improved results”**

Dr. Laura Mares  
Education World Conference  
*Lessons Learned and Pitfalls to Avoid  
of 1:1 Educational Computing Initiatives  
from the Argentinian Experience*

# Economic Impact

*Job Growth*

*Industry Growth*

*Second-Order  
Industry  
Growth*

*National  
Economic  
Growth*

**PORTUGAL**

**Magellan:**  
350 direct jobs,  
1500 secondary jobs,  
€2.3B in economic activity

**BRAZIL**

**MACEDONIA**

**MALAYSIA**

**VENEZUELA**

# *Social Inclusion & Educational Change*

ICT  
Access

Classroom  
Usage

Curriculum  
Integration

Educational  
Change

**ARGENTINA**

San Luis: significant improvement in language, science and math scores



# Education Transformation Wave



Brazi



Bolivia



Portugal



West Bank, Palestine



Georgia



Mexico



Venezuela



Egypt



Panama



Argentina



Rwanda



Kenya



Shenzhen, PRC



# Lessons Learned

- ★ recognise mistakes
- ★ observe what works
- ★ document them
- ★ share them



# What does not work...

- ❖ Position initiative as a technology project
- ❖ Limit scope to use in classroom only
- ❖ Drive exclusively by Ministry of Education
- ❖ Position as a pilot vs. first phase of new way forward
- ❖ Don't Wait until all the stars align – analysis/paralysis

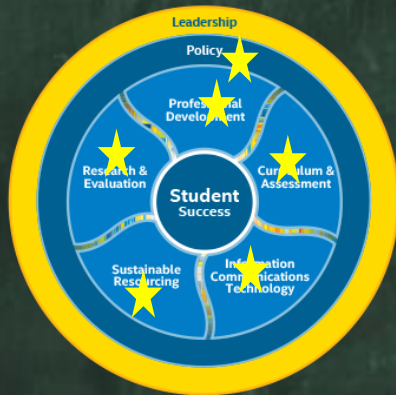


# What does work...

- ✓ Government commitment supported with an Action Plan - clear deliverables, baseline and measurable outcomes
- ✓ Get early wins in most challenging environments (start rural)
- ✓ Empower teachers with new learning methods
- ✓ Integrate global content and develop local content
- ✓ Forge Private/Public Partnerships for sustainability

# HUGE impact of KEY changes

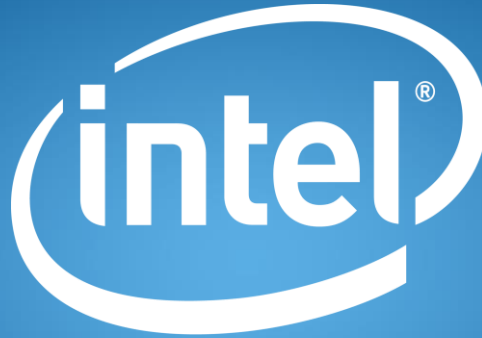
Don't Wait until all the stars align



- Create a shared vision and roadmap for long-term change
- Breakdown project into feasible milestones
- Develop and implement a flexible master plan
- Inspire stakeholder support and address concerns openly

**Commitment + Collaboration + Community**

<http://www.intel.com/education>



experience  
what's inside™