# Intel World Ahead



Intel Research Day

Brian G. Gonzalez June 8, 2011



# Intel World Ahead

Access

Connectivity

**Education** 

Content



- Targeted platforms
- Shared access

- 3G/4G Wireless
- USF for Rural

- 9M Teachers trained
- PC Classroom Skills
- Publishers & Content
- Skoool.com



# ICT Spans All Industries



Sector Solution Focus Areas



## 200+ Active Programs in 70+ Countries





## Programs that drive Better Health

#### Africa Cassava Crop Disease

- Relevant Content
- Rural Connectivity
- Ruggedized PCs





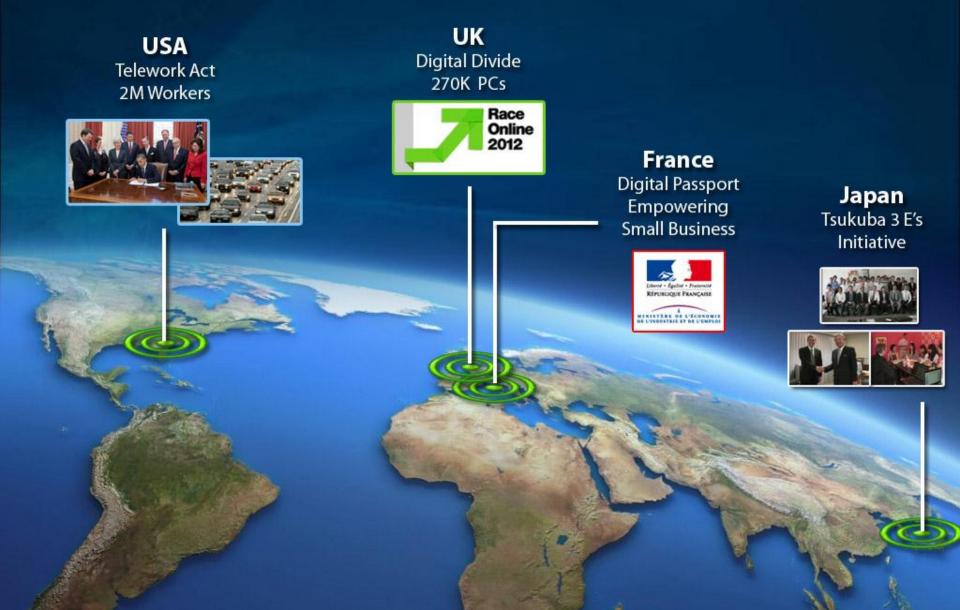
#### Mobile Health Workers







### Programs to Increasing Technology Benefit in Mature Markets







#### **Educational Transformation**

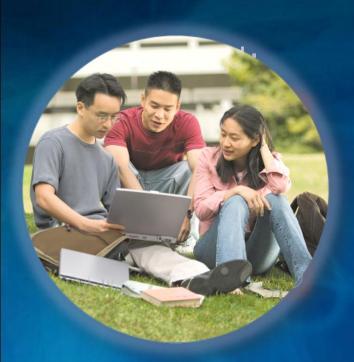
-- Enhancing What & How We Learn Matters --

#### Education -> Entrepreneurship -> Employability

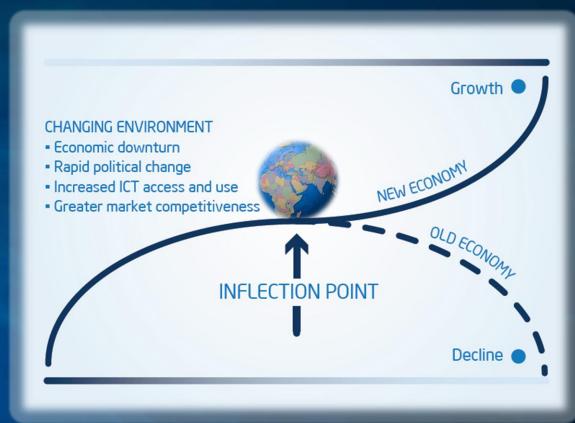
- Increases Country Competitiveness
  - 21st century skills needs enhanced teaching & learning
- Builds Required Competencies
  - New job skills & re-skilling
- Boost Economic Development
  - Grow ICT industry base, jobs & revenue
- Enhances Citizenship & Social Cohesion
  - Narrow digital divide, rural inclusion



## The future is here...



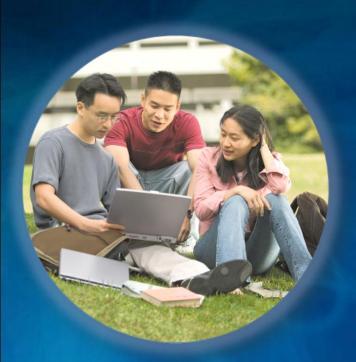
Education is key





#### Skills needed for the new economy:



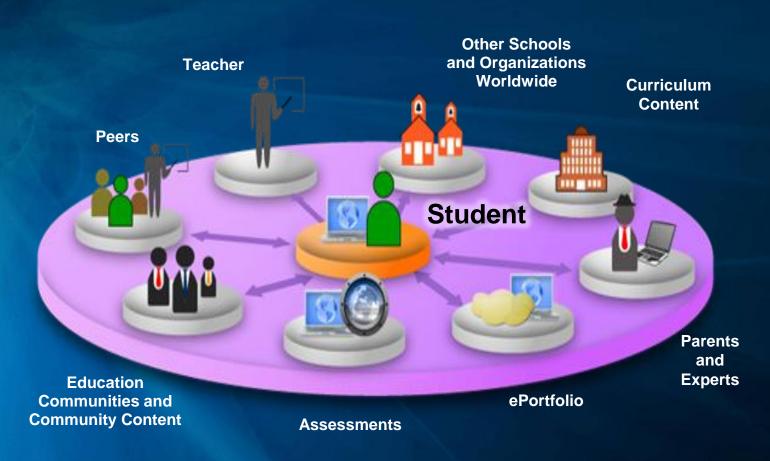


- Problem solving
- Critical thinking
- Collaboration
- Project management
- Technology literacy

Teachers and Students ready for today's requirements.



# Student Centered Personalized eLearning





# Transformation Wave... happening Now!



Colorado, USA



Portugal



Bolivia



Argentina



Republic of Georgia



Venezuela



#### **Education Transformation Framework**





#### **Education Transformation Framework**



Students gain critical 21<sup>st</sup> century skills through:

- Strong curriculum standards
- Robust assessment approaches
- New digital media tools and resources



#### **Education Transformation Framework**



- Teachers training and development to support a studentcentric learning environment
- Learning platforms for students, teachers, and administrators
- Connectivity
- Ecosystem relationships for integrated solutions



# Transformation Wave... happening Now!



Colorado, USA

### Portugal





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Venezuela



### Portugal - Future Ready!



Objectives	2008	2010
Internet Usage	38%	60%
BB Penetration	13%	50%
HH PC Penetration	43%	70%
Students per PC	9:1	1:1
Employees with Internet	25%	40%
Teachers ICT Certification	8%	90%



**Every child gets a PC** 

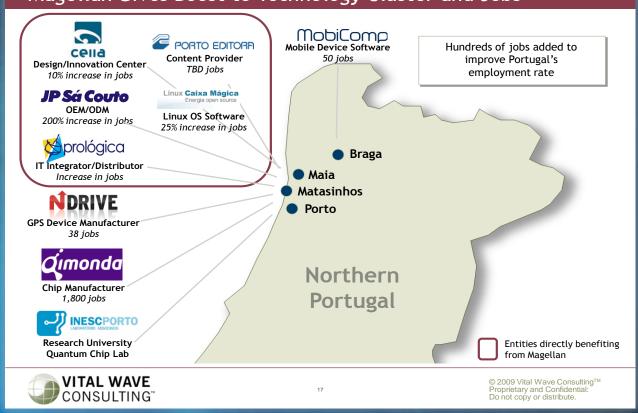
21st Century Skills + Jobs



#### **Industry Collaboration...**



## Creating the Portuguese Silicon Valley Magellan Gives Boost to Technology Cluster and Jobs





# Project Magellan Direct and Indirect Economic Benefits





#### **Direct Benefits**

- Creation of local jobs associated with hardware and software production and support services
- Improvements in physical and Internet infrastructure
- Export increase/improvement in balance of trade

#### **Indirect Benefits**

- New production and service jobs
- Enhanced ability to attract foreign investment due to stronger workforce skills
- Build up of local IT capabilities and ecosystem



#### **Educational Impact?**



#### **PISA**

The PISA (Program for International Student Assessment). Portugal was the country of the OECD that presented the best evolution.



A simple idea can change the future of a country



#### **Knowledge Economics...** Lessons from Portugal





#### Campaign to speed up slow growth



addressing its lack of

#### schools

Posted by: Don Tapscott on 24Jun 2009

President Obama already knows that the nation's schools are failing a large number of young Americans. One-third of all students drop out before finishing high school. It's a terrible record, and it's even worse in inner city public schools, where only half of blacks and Hispanics graduate from school. This is not a legacy that would make anyone proud: More young Americans on a proportionate basis drop out of school today than at any other time in our history.

This problem is undoubtedly complicated, but one of the reasons why many American youth are unmotivated and not learning well is that they're bored in school. They're grown up in a fast paced, challenging digital world, with the Internet, mobile devices, video games and other gadgets. They watch less television than their parents did and TV is typically a background activity. They are a generation doesn't like to be broadcast to and they love to interact, multi-task and collaborate. Yet, when they get into the classroom, they're faced with stale textbooks and lectures from teachers who are still using a nineteenth century innovation, chalk

American classrooms need to enter the 21st century. Thousands of teachers agree. Earlier this year, several important educational groups urged the president and Congress to spend nearly \$10 billion to improve technology in the classroom, and ensure teachers know how to use computers most effectively.



# Knowledge Economics... Lessons from Portugal



#### **Next Generation of Power Users**



Past: Plays & Works



**Today:** Learns & Collaborates

We must start the journey Now!



# Intel World Ahead www.intel/worldahead.com



Thank You!

