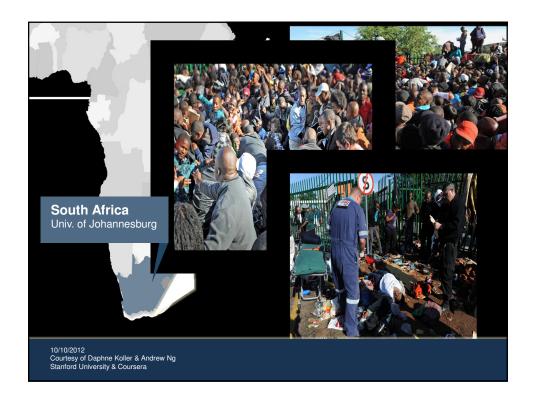
IV Conference. Russian Association of Higher Education Researchers
Moscow, Russia. Sep. 26, 2013

"Are universities in jeopardy: Keeping
traditions while taking a look into the future"

Francisco Marmolejo
Tertiary Education Coordinator
The World Bank
fmarmolejo@worldbank.org

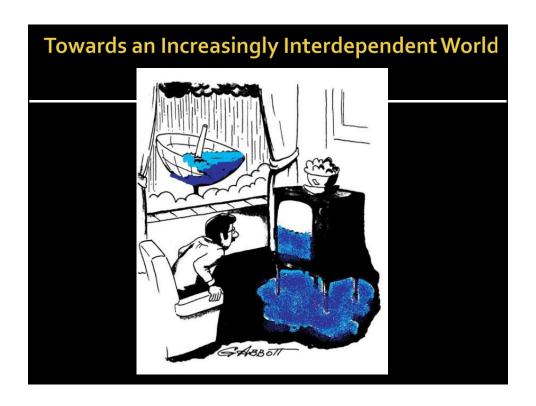






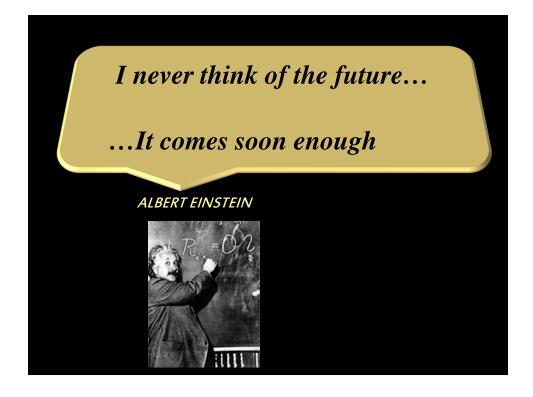














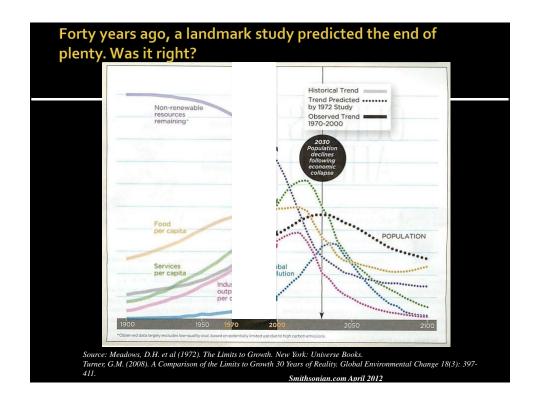
Is this a true prediction?

"Universities won't survive...higher education is in deep crisis...The college campus won't survive as a residential institution. Today's [college] buildings are hopelessly unsuited and totally unneeded"



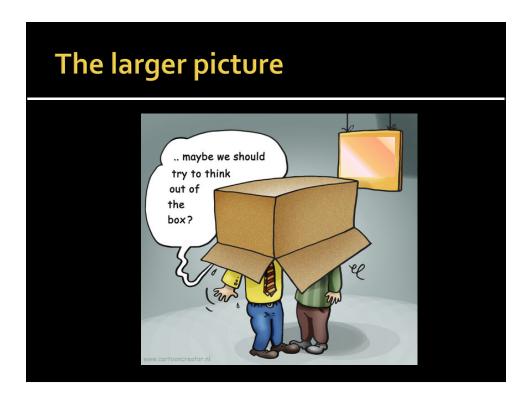
Peter Drucker, 1997

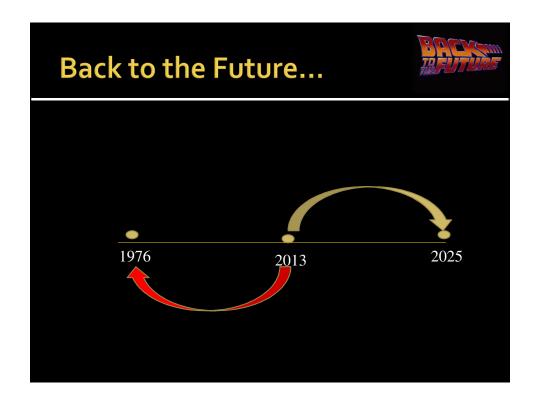
...or it is just an exageration?



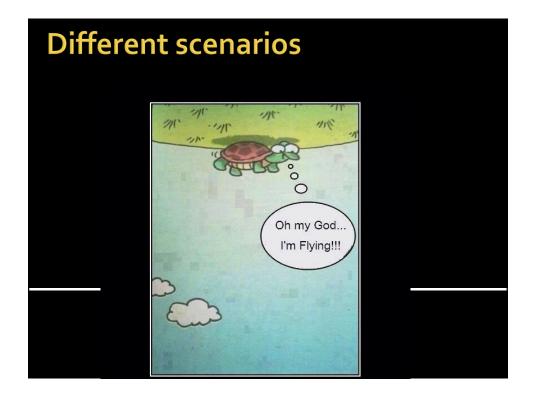




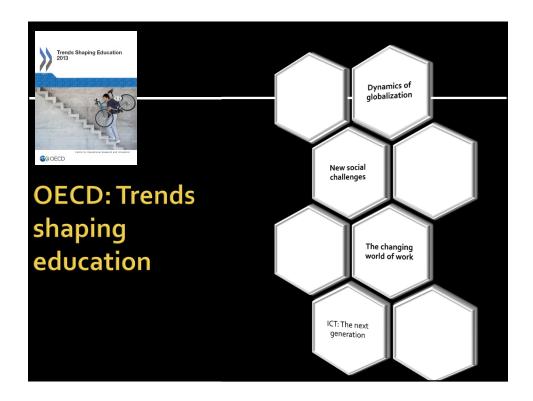


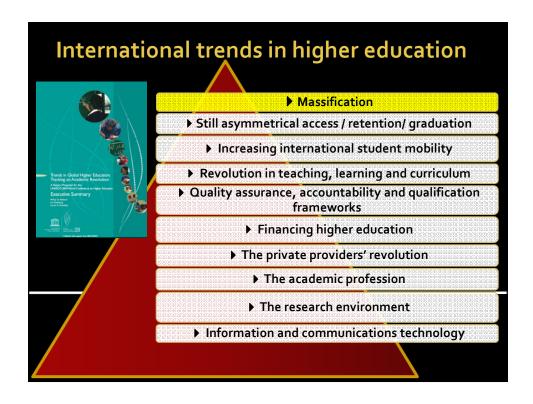


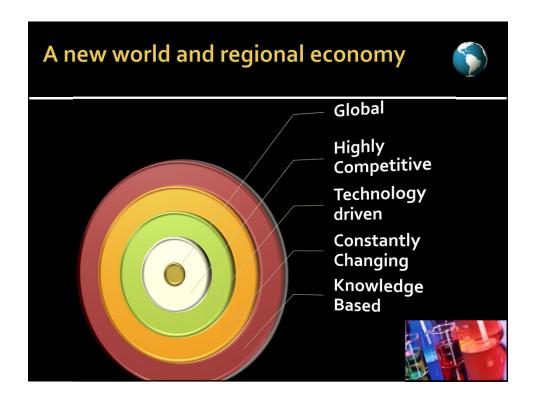


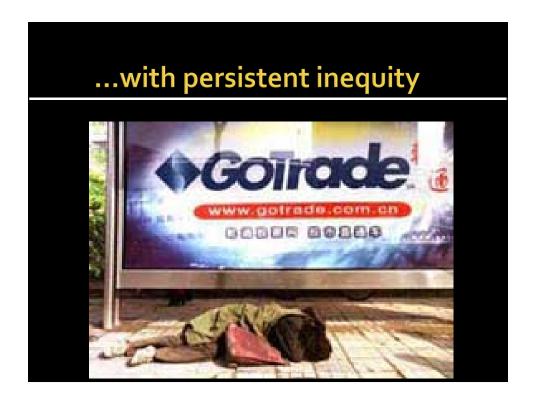


...and what is the role of higher education?



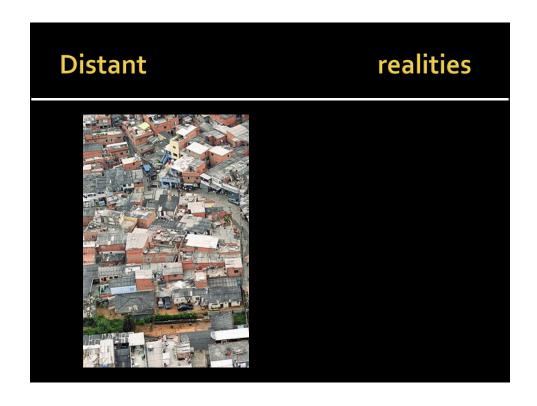








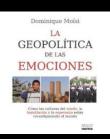


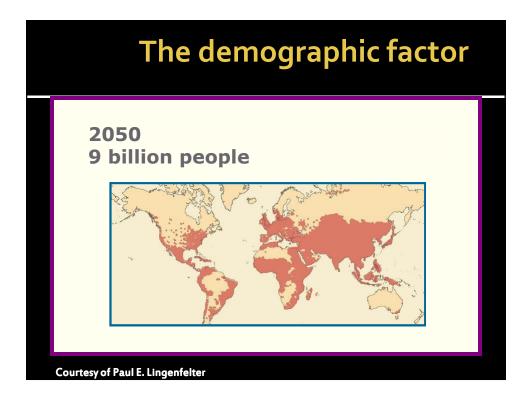




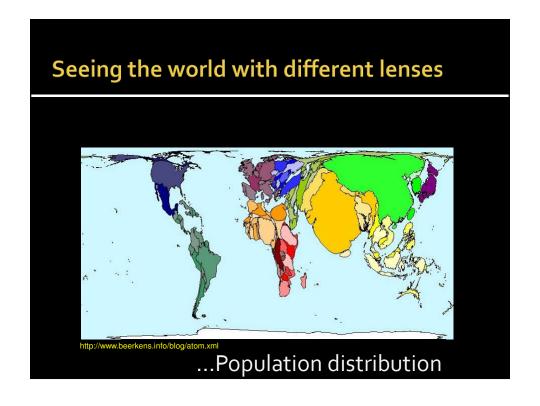
The poor know how the rich live, and vice versa. As a result, it has become increasingly difficult for the rich to ignore the world's poor, whose anger they witness on the evening news.

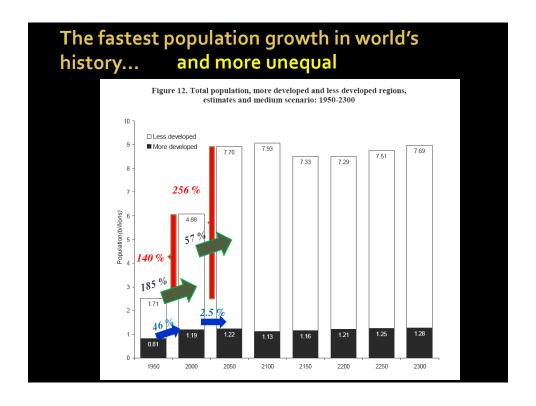
Dominique Moisi.
Geopolitics of Emotions (2009)

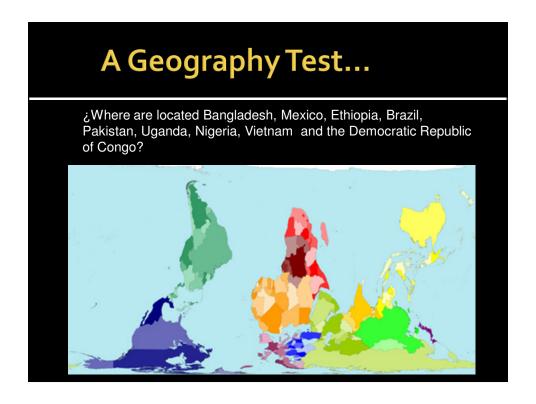




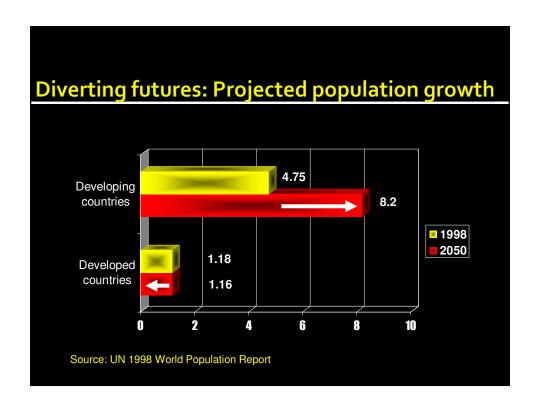


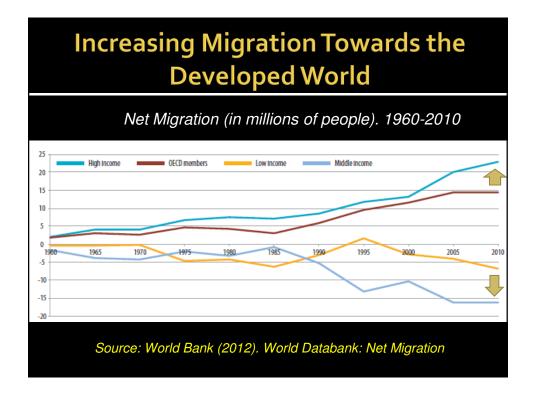


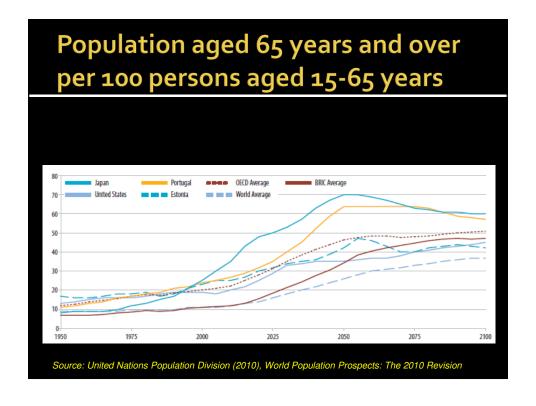




World's most populated countries. 1950-2050							
RANK	COUNTRY	1950	COUNTRY	2000			
1	China	554.8	China	1,275.2			
2	India	357.6	India	1,016.9			
3	USA.	157.8	USA	285.0			
4	Russian Federation	102.7	Indonesia	211.6			
5	Japan	83.6	Brazil	171.8			
6	Indonesia	79-5	Russia	145.6			
7	Germany	68.4	Pakistan	142.7			
8	Brazil	54.0	Bangladesh	138.0			
9	Great Britan	49.8	Japan	127.0			
10	Italy	47.1	Nigeria	114.7			
11	France	41.8	Mexico	98.9			
12	Bangladesh	41.8	Germany	82.3			
13	Ukraine	37-3	Philipines	75.7			
14	Nigeria	29.8	Turkey	68.3			
15	Spain	28.0	Egypt	67.8			
16	Mexico	27.7	Iran	66.4			
ONU (2004). World F	Population to 2300.						











"There are an estimated 214 million international migrants worldwide, or 3.1 percent of the population. (International Organization for Migration, 2010.) Approximately 60 percent of international migrants reside in the more developed regions, representing 10 percent of the population; in the developing world, migrants comprise only 1.4 percent of the population.".

F. Marmolejo, S. Manley y S. Vincent-Lancrin Immigration and access to tertiary education: Integration or marginalisation?"



OECD, 2009



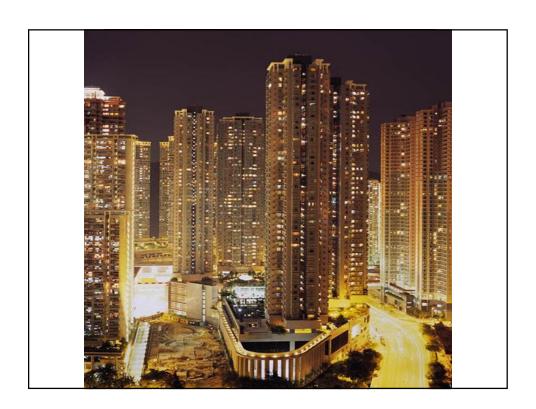


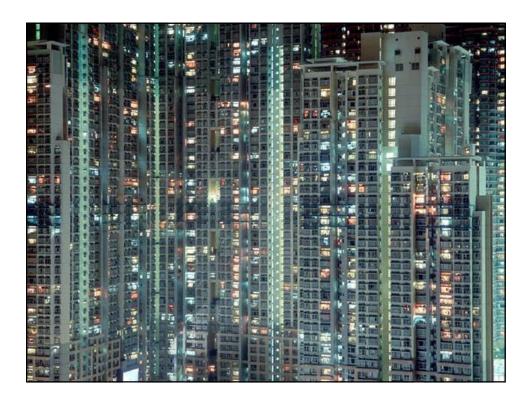






















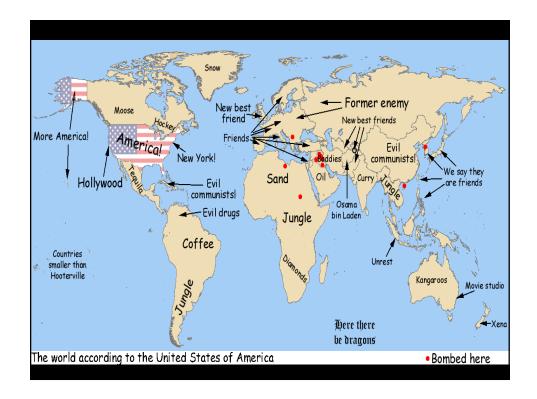




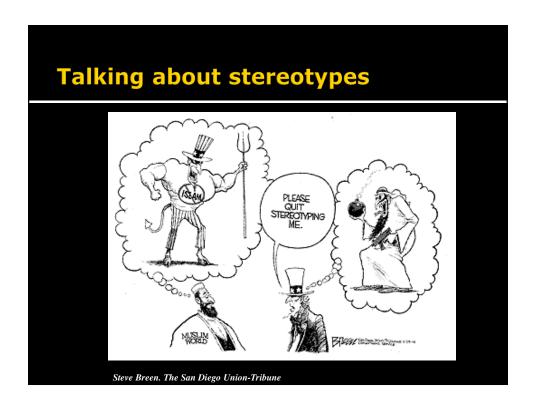










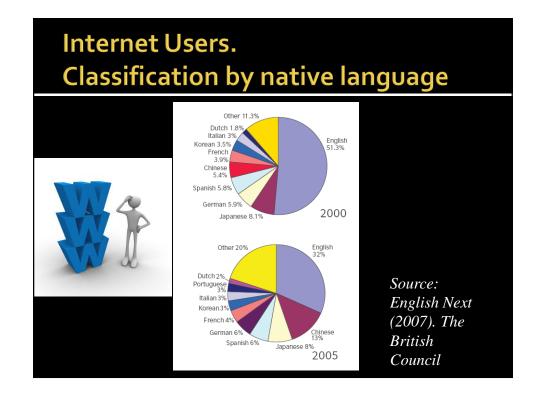


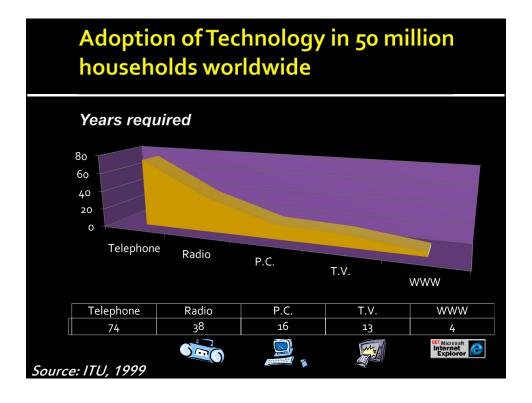
Ten most spoken languages in the world (including second language)

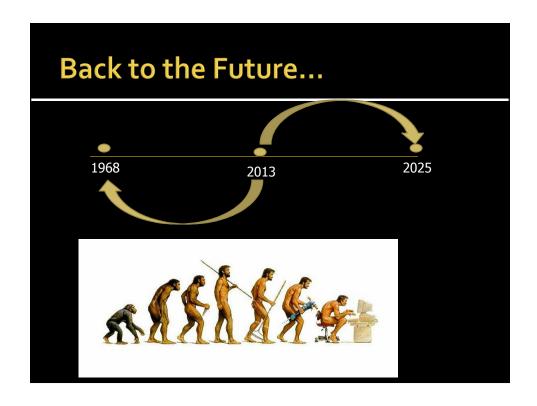
	1	Mandarin	1,052			
	2	English	508			
	3	Hindi	487			
	4	Spanish	417			
	5	Russian	277			
	6	Bengali	211			
	7	Portuguese	191			
	8=	German	128			
	8=	French	128			
	10	Japanese	126			
F	Fonte: English Next (2007). The British Council					

By the year 2050 the most widely spoken languages in the world will be:

- 1 Mandarin
- 2 English
- 3 = Spanish
- 3 = Hindi/Urdu
- 3 = Arabic
- 4 Portuguese







Technology in 1968

Intel Corporation is founded.

Larry Roberts publishes ARPANET program plan.

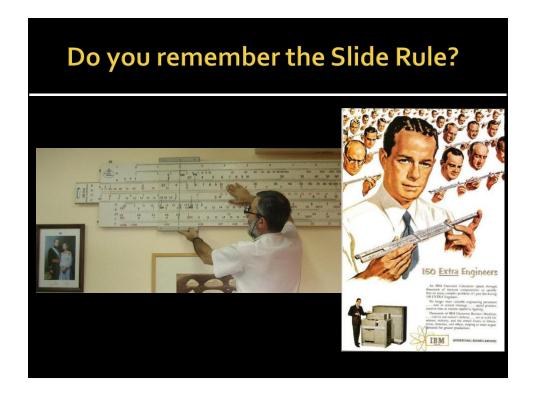
UCLA is selected to be the first node on the Internet as we know it today.

The movie "2001: A Space Odyssey" is released.

Seiko markets a miniature printer for use with calculators.

Doug Englebart publicly demonstrates Hypertext.

Source: http://www.computerhope.com/history/196080.htm



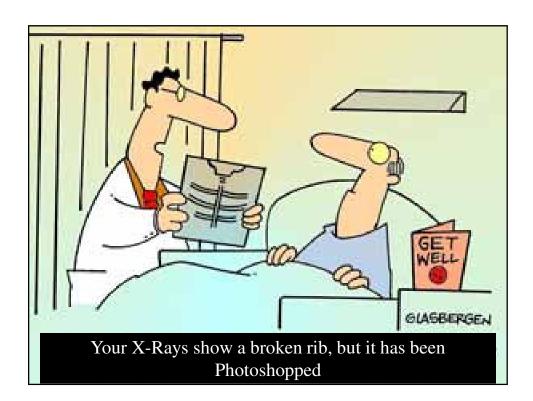




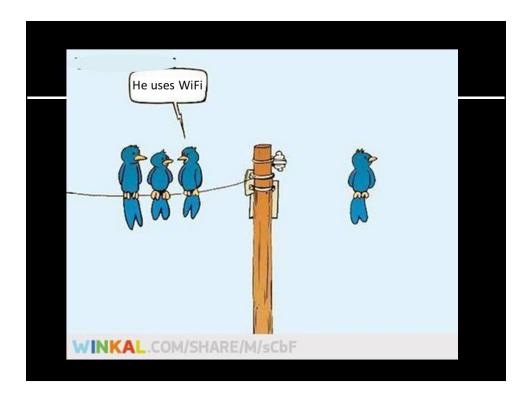
"Today <u>twenty</u> households with average broadband usage generate as much traffic as the entire Internet carried in 1995"

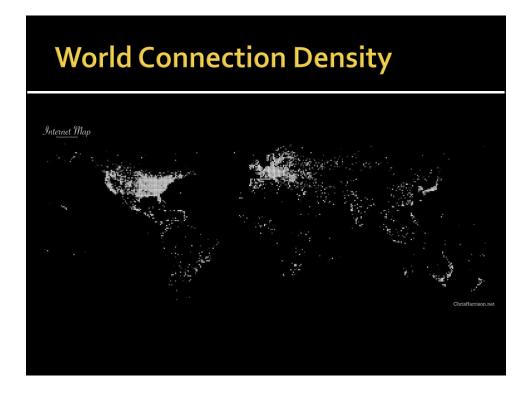
Katie McAuliffe, Digital Liberty

Source: IEEE Spectrum. Jan. 2013. Dataflow. p80







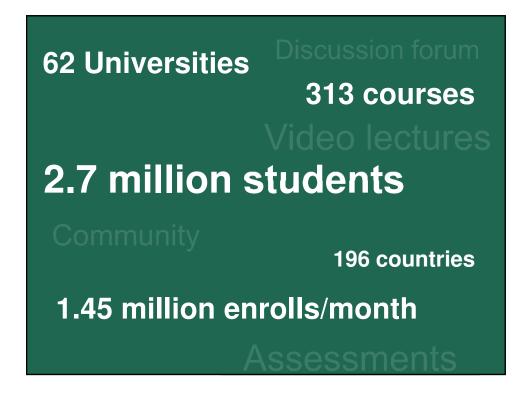


MOOCs: Too good to be true?

A massive open online course (MOOC) is a type of online course aimed at large-scale participation and open access via the web.
 MOOCs are a recent development in the area of distance education, and a progression of the kind of open education ideals suggested by open educational resources

Source: http://en.wikipedia.org/wiki/Massive_open_online_course

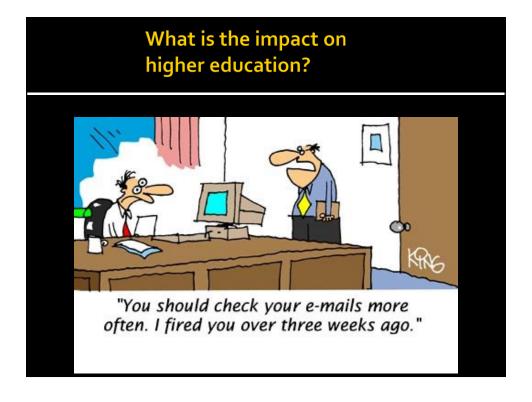








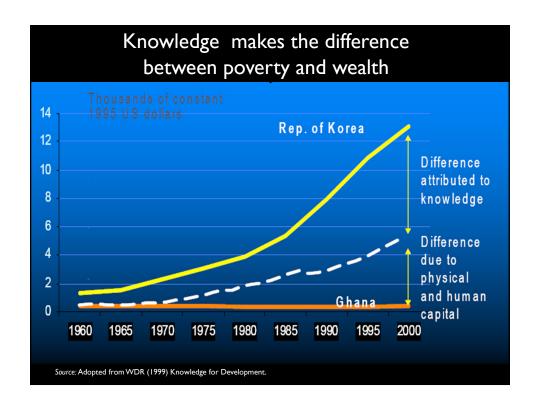


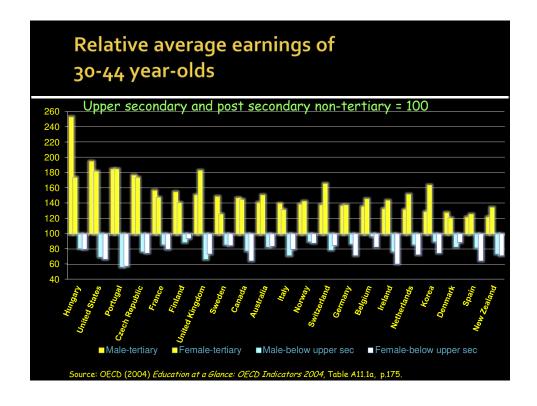


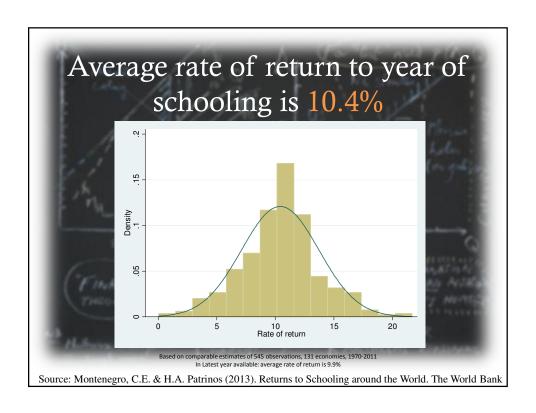












Returns highest at Tertiary Level



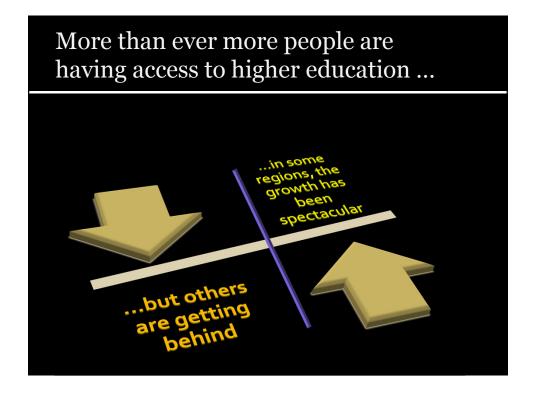
Table 3: Returns to schooling by educational level and region (latest available year between 2000-2011)

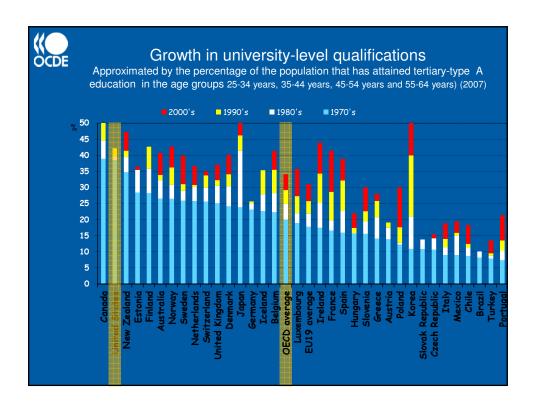
Region	Primary	Secondary	Tertiary	GDP/pc (PPP 2005)	N
World	10.3	6.9	16.8	6,719	74
Middle East and North Africa	9.4	3.5	8.9	3,645	7
South Asia	9.6	6.3	18.4	2,626	4
Eastern and Central Europe	8.3	4.0	10.1	6,630	7
High Income Economies	4.8	5.3	11.0	31,748	6
East Asia and Pacific	11.0	6.3	15.4	5,980	6
Latin America and Caribbean	9.3	6.6	17.6	7,269	20
Sub-Saharan Africa	13.4	10.8	21.9	2,531	24

Source: Montenegro, C.E. & H.A. Patrinos (2013). Returns to Schooling around the World. The World Bank

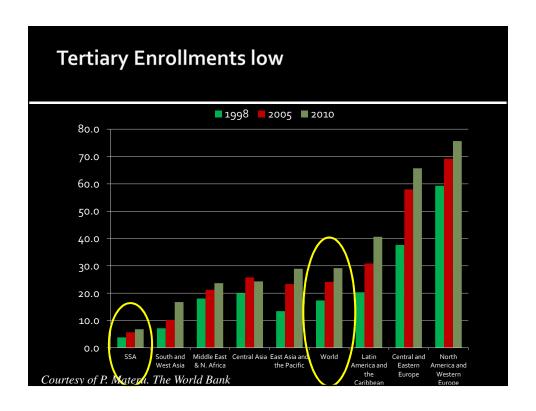
Implications for Higher Education

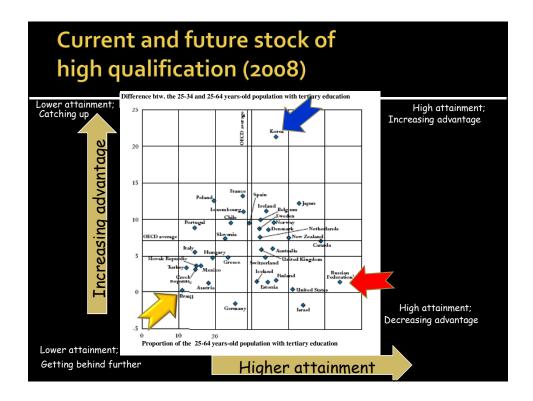


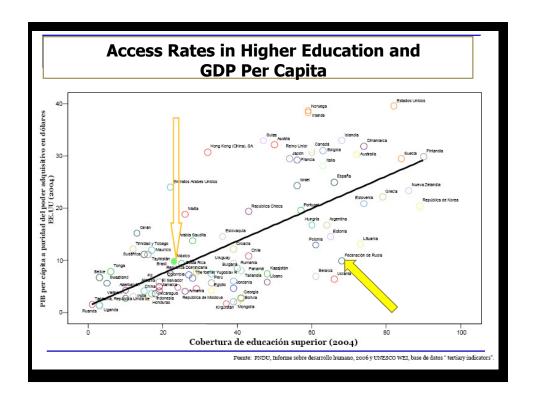


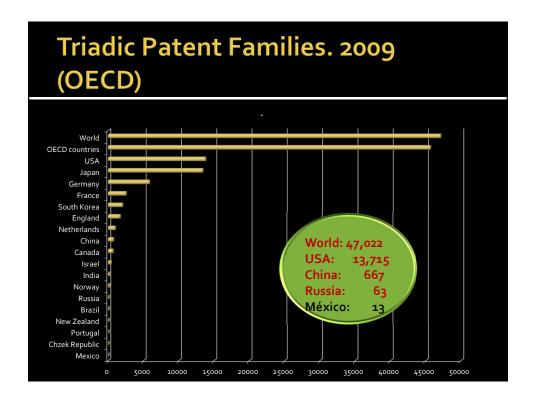


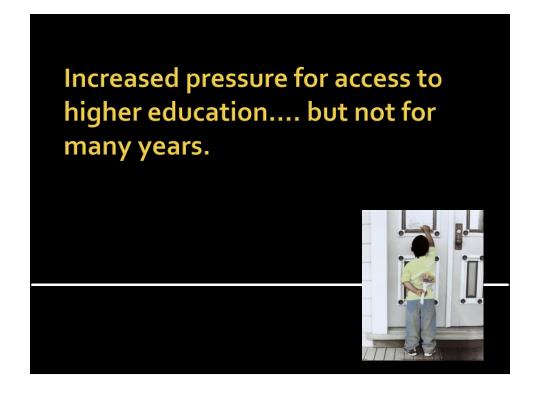


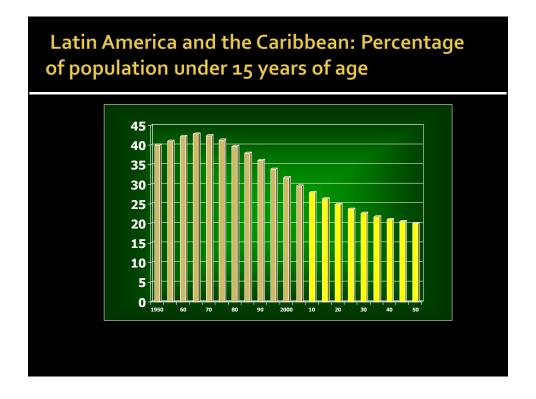


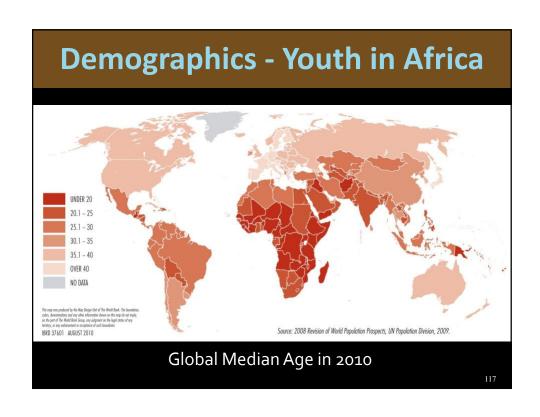




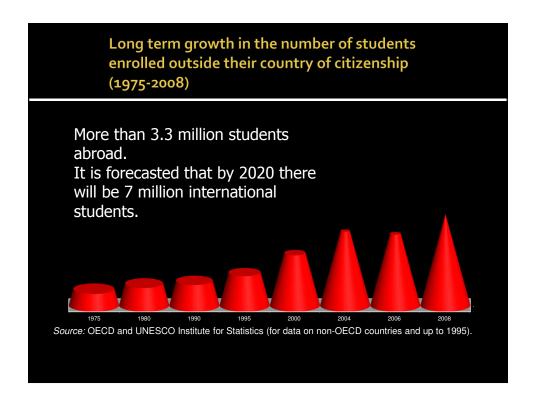


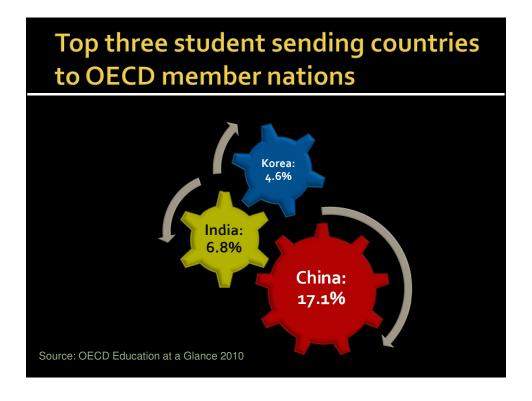


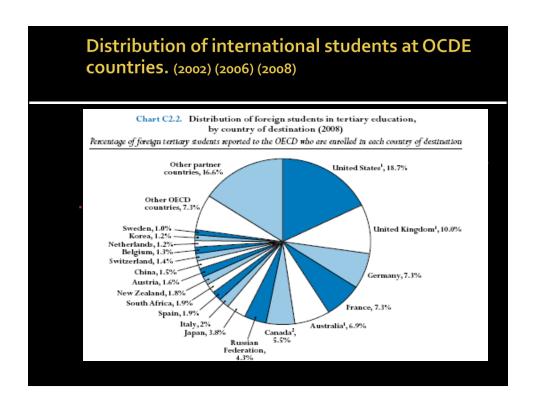


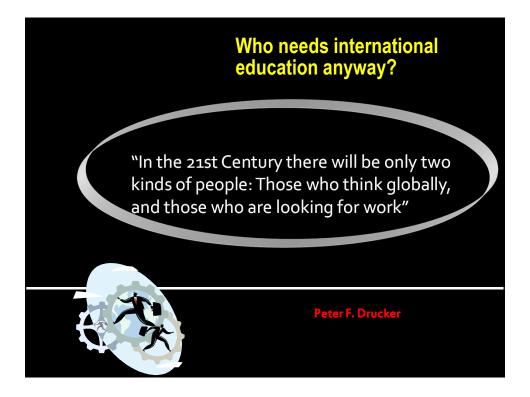


2025: More internationalized higher education institutions

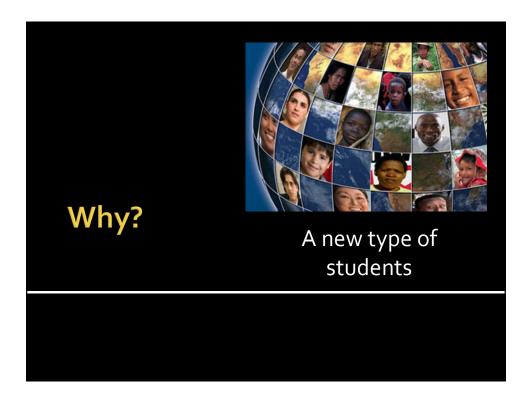


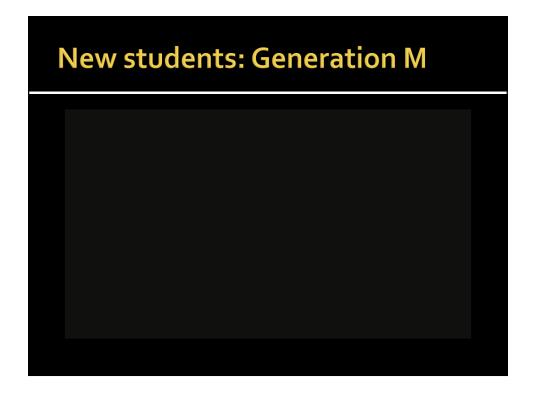


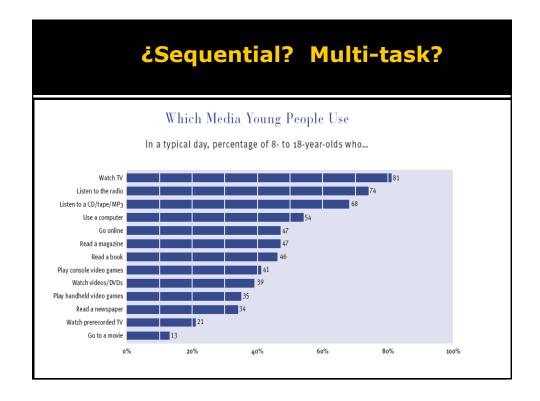


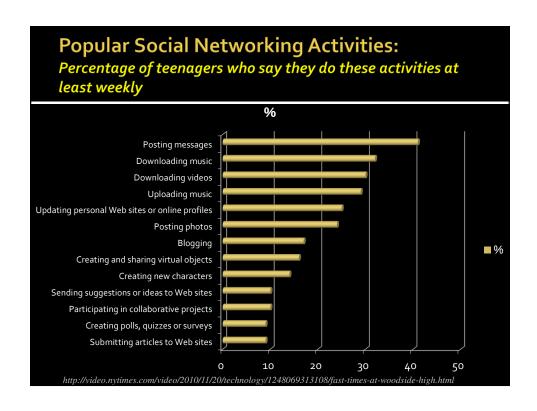


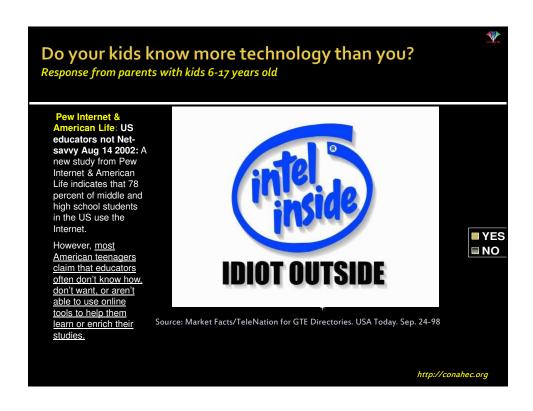
Internationalization: Beyond the traditional approach





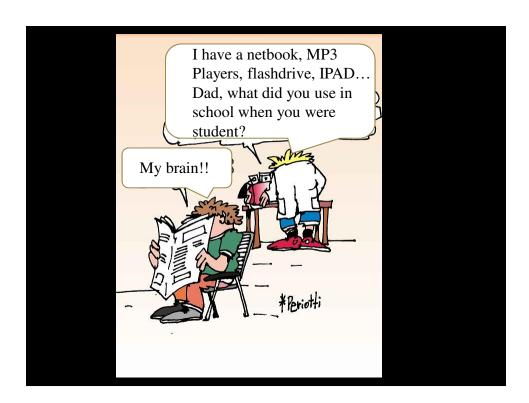














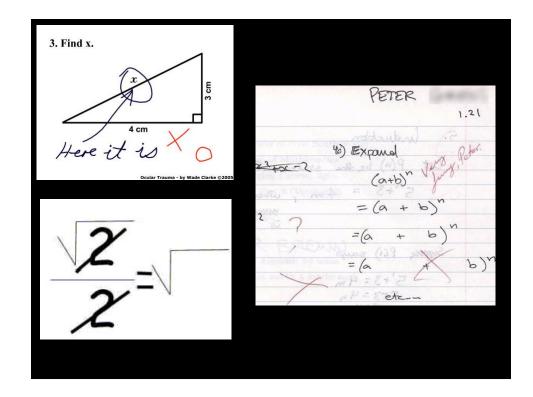
Students of the knowledge society Answers to questions asked in tests

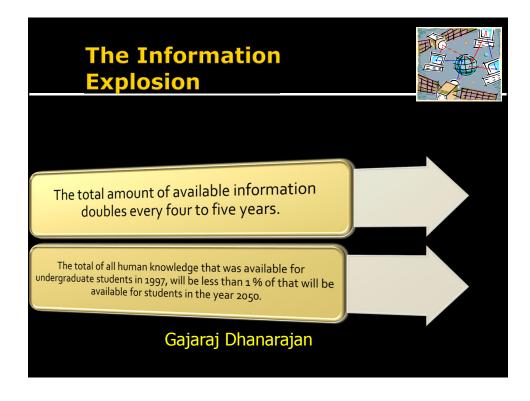
GEOMETRY

- Define what a circle is: It is a line connected by two ends making a round figure.
- What is Trigonometry?: Device used to measure trigonometers.

THE HUMAN BODY

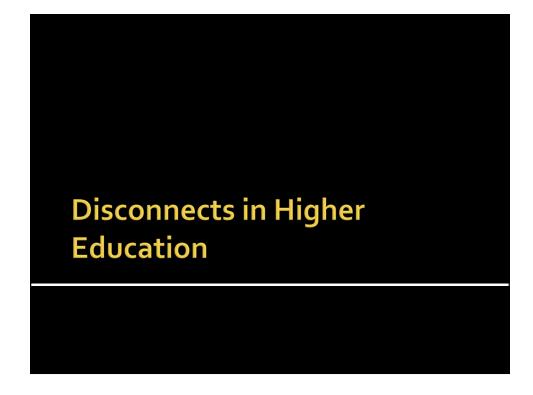
- What are the movements of the heart?:
 - The heart is always in movement. It doesn't move in the case of corpses only.
- Brain: Ideas, after being spoken, go straight to the brain.

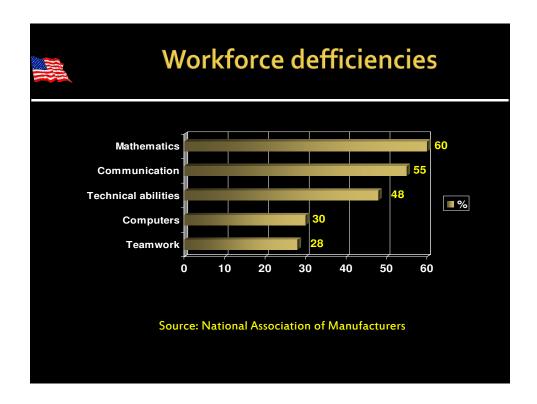


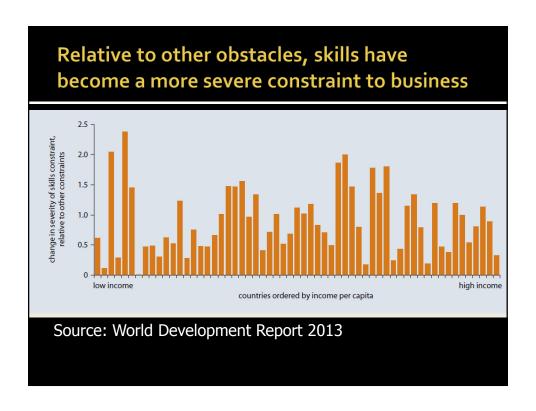












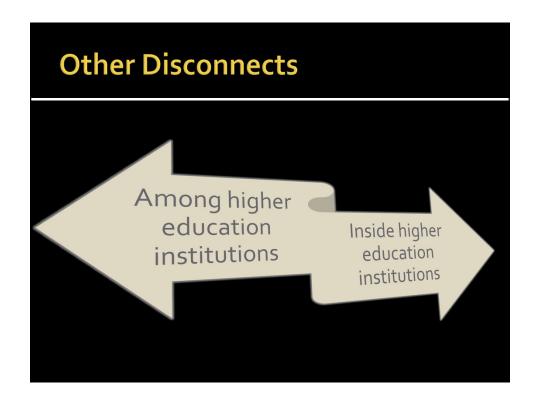


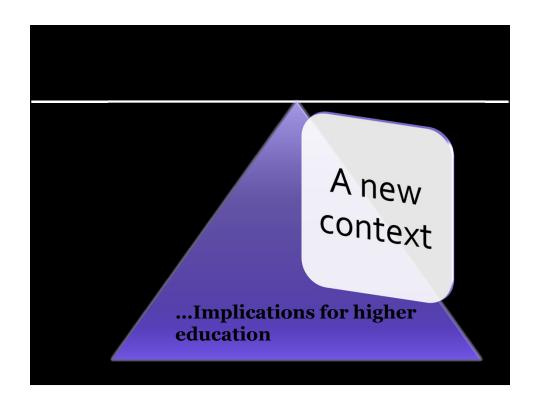
From Russia's World Bank's Skills Development Report

- Skills (lack of), as a major obstacle for development
- Need for soft skills and high cognitive skills, in addition to good technical skills.
- Limited incentives for change in developing skills
- Improvement needed:
 - Incentives
 - Capacity building
 - Information

http://www.worldbank.org

Disconnects in Higher Education Graduates Research (alumni) Community Governments based organizations Between Previous levels of higher education education Employers and





...National level changes are required but not sufficient...

...Higher Education Institutions need to embrace the change themselves.

A fundamental question

- HEIs located <u>IN</u> regions but what contribution does their teaching-research and international engagment make to the integral development <u>OF</u> the region?
- What is the role of HEIs as citizens of the respective communities?
- Most of the time, we really don't know

Is this a true prediction?

"Universities won't survive...higher education is in deep crisis...The college campus won't survive as a residential institution. Today's [college] buildings are hopelessly unsuited and totally unneeded"

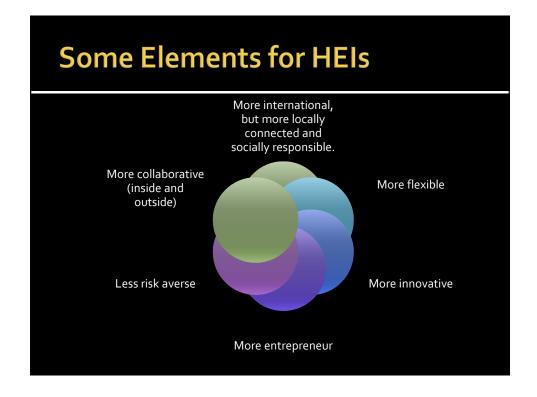


Peter Drucker, 1997

...or it is just an exageration?

How?

Towards a new paradigm in higher education



The professional of the future



- In the future, work will be based on the principle of <u>"adjustment"</u>: intelligent individuals able to combine education, interests and skills in order to become a sort of unipersonal multifunctional team.
- Success will depend on the ability to <u>"adjust"</u>: to creatively develop or modify skills and knowledge

Some titles and professions of the future...

- Bio-systems Engineer
- Performance technologist
- Visual Ergonomics
- Psycho-linguistic
- Cyber-librarian
- Bio-manufacturing
- Geo-environmentalist MKT
- Information Architect

Tissue Engineer

Data Miner

Pharmer

Genetic Engineer

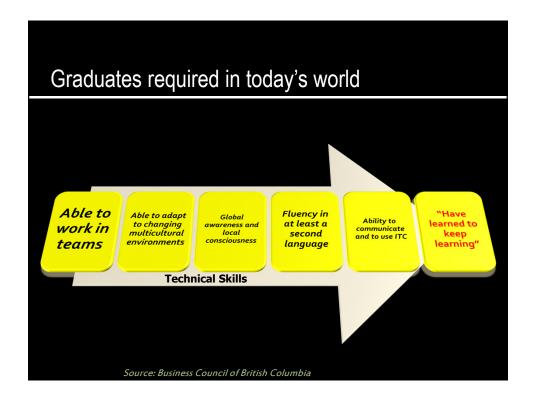
Knowledge Engineer

Ethno-Epidemiologist-Musician

...or from the present?

Some Critical issues

- Ability to adapt to environments, ways of thinking, and practices from other organizations, cultures and individuals
- To be prepared to change profession!!!!
- Command in at least a second language, as a way to think in another language
- Recognition of an increasingly complex world







Higher Education in Crisis: New Challenges, Old Responses

"While the ship is sinking –says the captain – the first priority is to save the crew, next is to avoid problems while the ship continues to sink, the third priority is to repair the ship, and lastly, the fourth priority, if time permits, is to save the passengers"

Arthur Levine, president of Columbia Teachers College



Beyond just information/knowledge

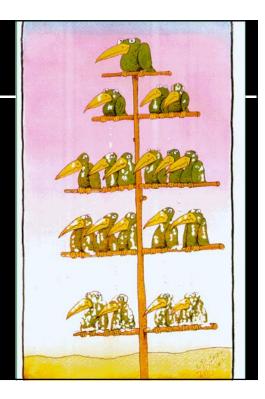
- Sound humanistic preparation
- General Education
- Attitudes vs. aptitudes

El arte de la ambigüedad

Continuar haciendo las cosas como siempre, aunque esperando diferentes resultados



Who is responsible?



The Italian University in 1350



...and the universities of today

There is no magic formula...

What it may work in one case



...it is not necessarily the best solution in other cases



Top 10 Do's in Tertiary Education

Diversifying options, but leveling the playing field.

Assuring good quality institutions.

Making post-compulsory education and training equitable and affordable.

Targeting public resources toward programs that yield high social returns.

Using innovative approaches to retain students and ensure employable graduates.

Improving secondary education.

Increasing the autonomy and cost-efficiency of institutions and the system as a whole.

Arming students with information so they make smart choices.

Embracing competition – national and global.

Fostering openness and an evidence-based culture in tertiary education.

A word of caution

For every complex problem there is an answer that is clear, simple,

...and wrong.

H. L. Mencken



