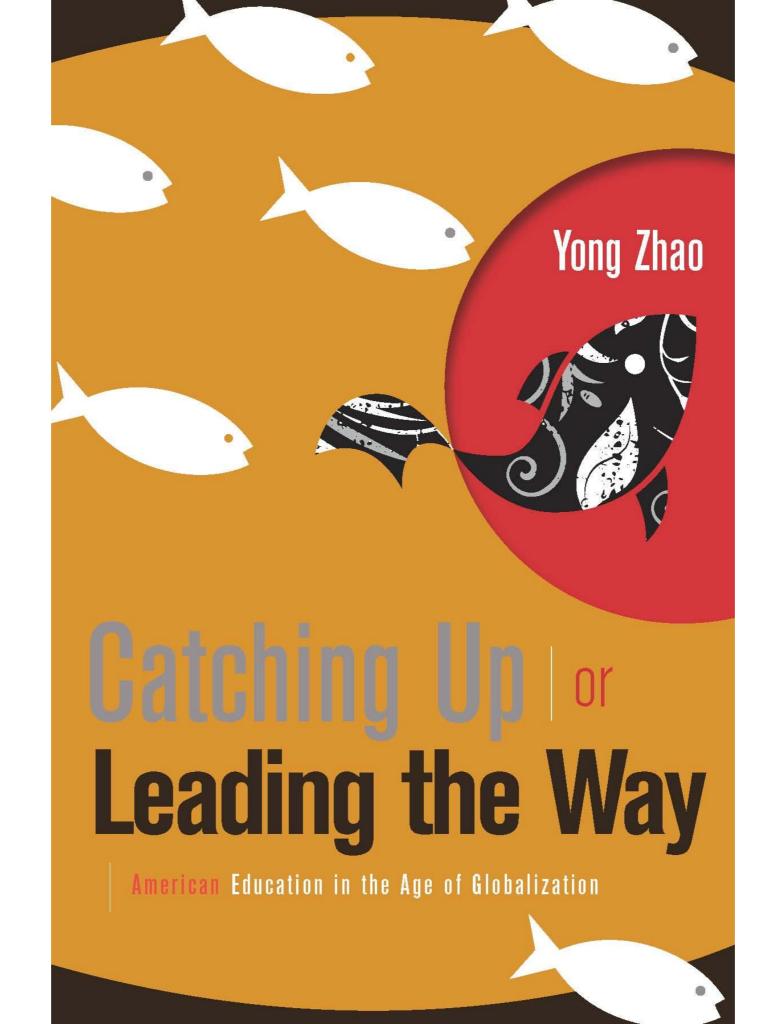
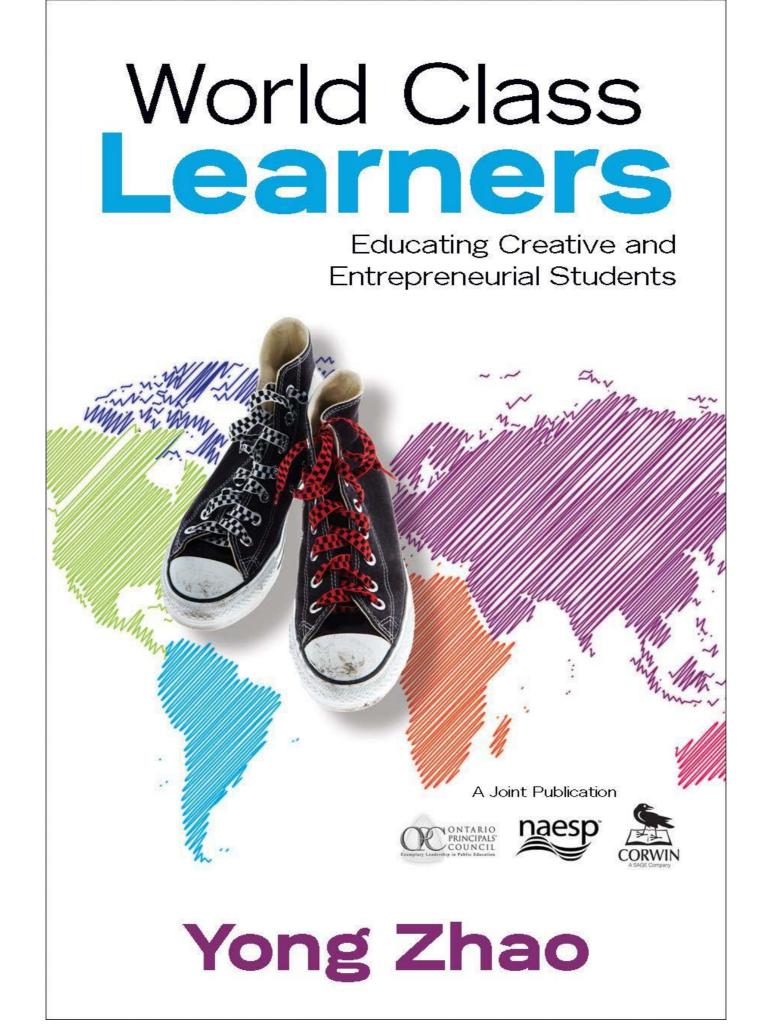
http://zhaolearning.com



@YongZhaoUO

http://www.facebook.com/yongzhao.uo

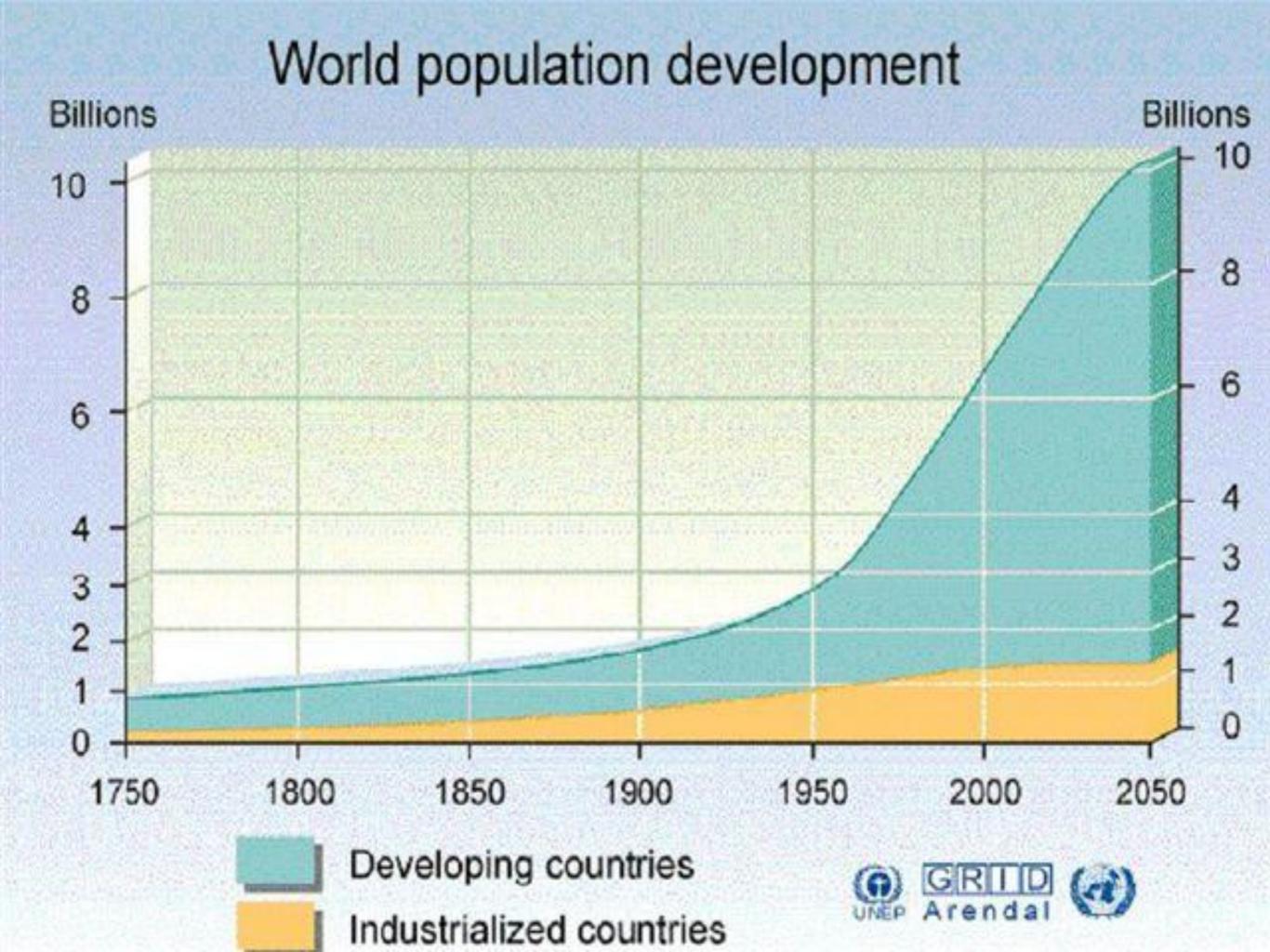


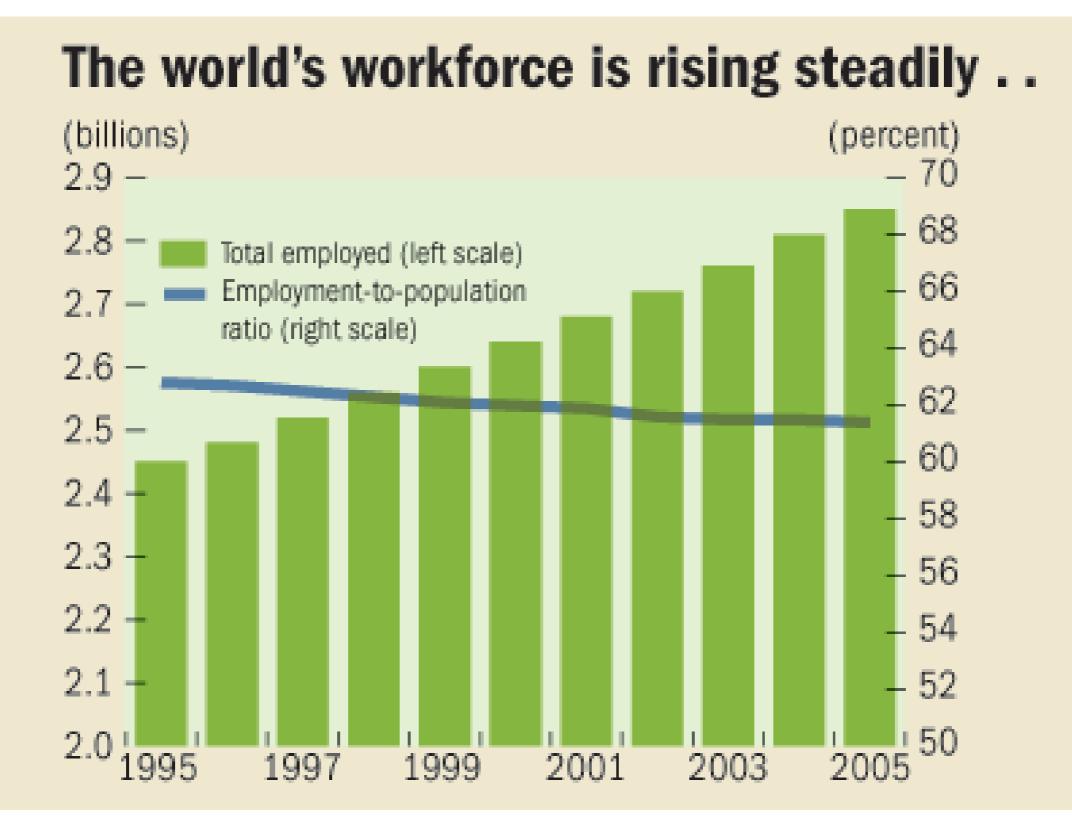


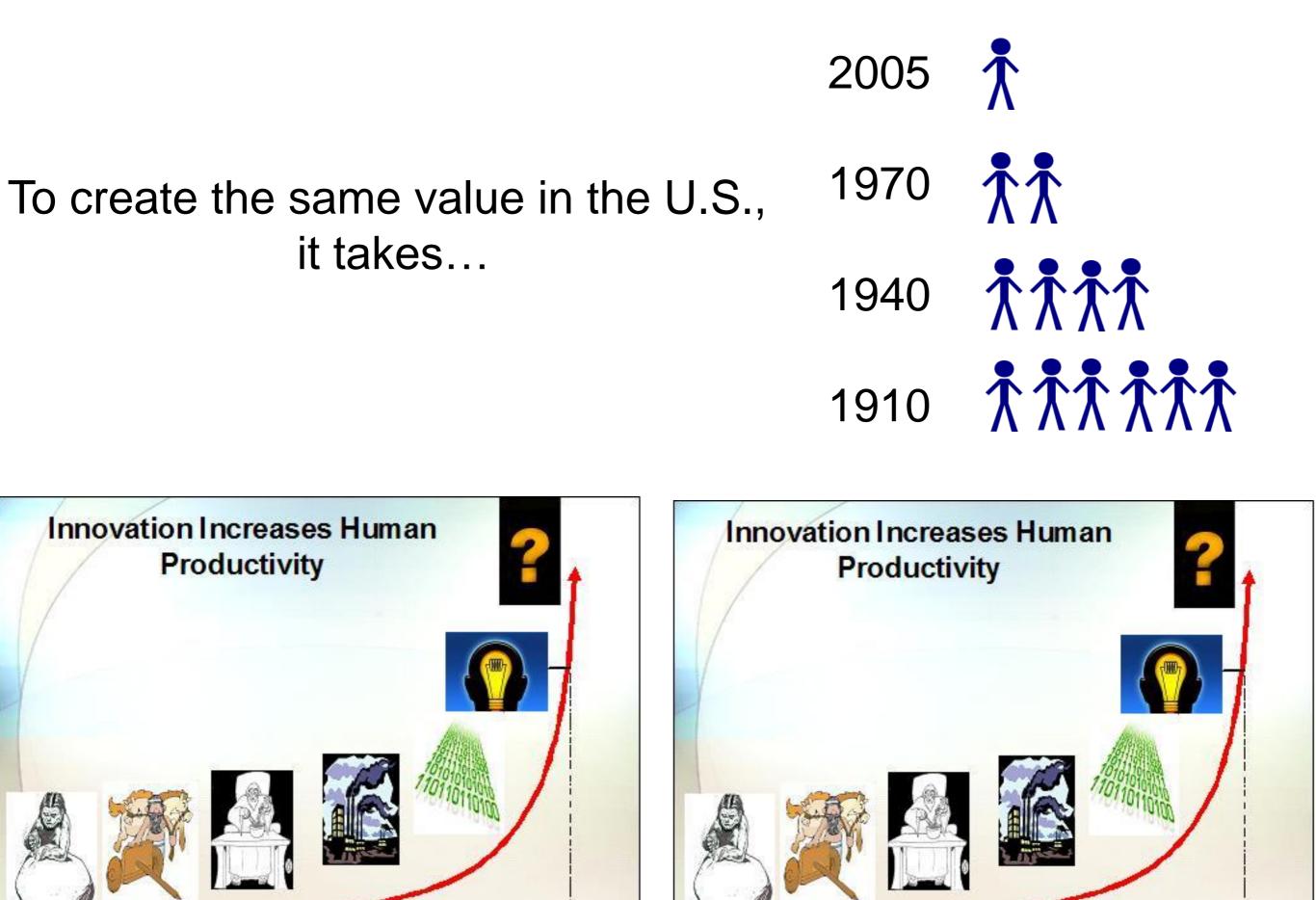
The future: The Age of Globalization



The stone age did not end because they ran out of stones







-50,000 -10,000

-1000

7

-100

Years

Now

-50.000

-10,000

-1000

-40

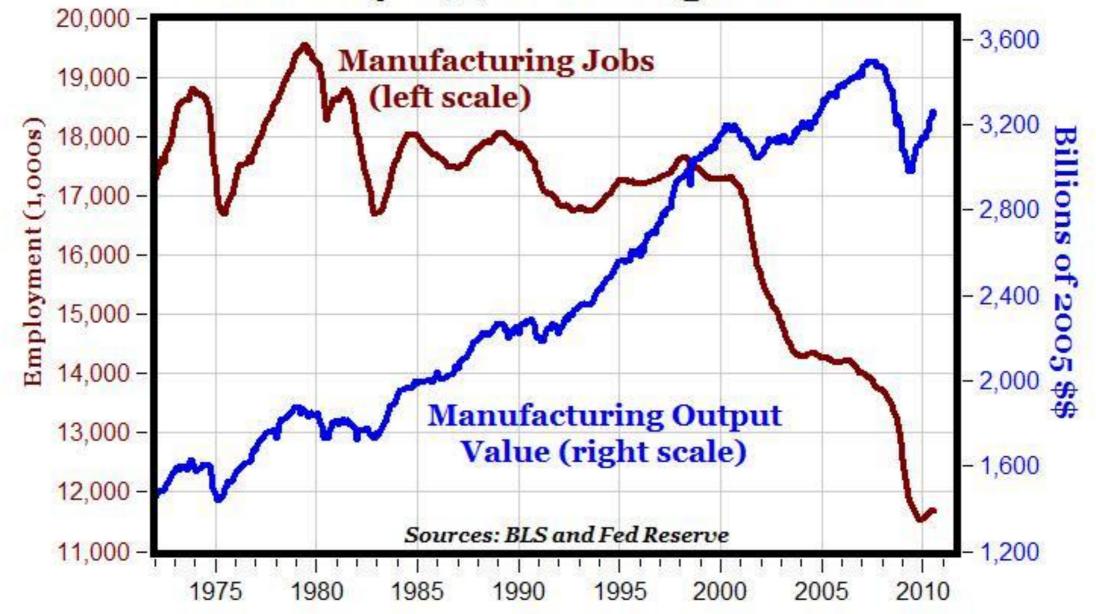
-100

Now

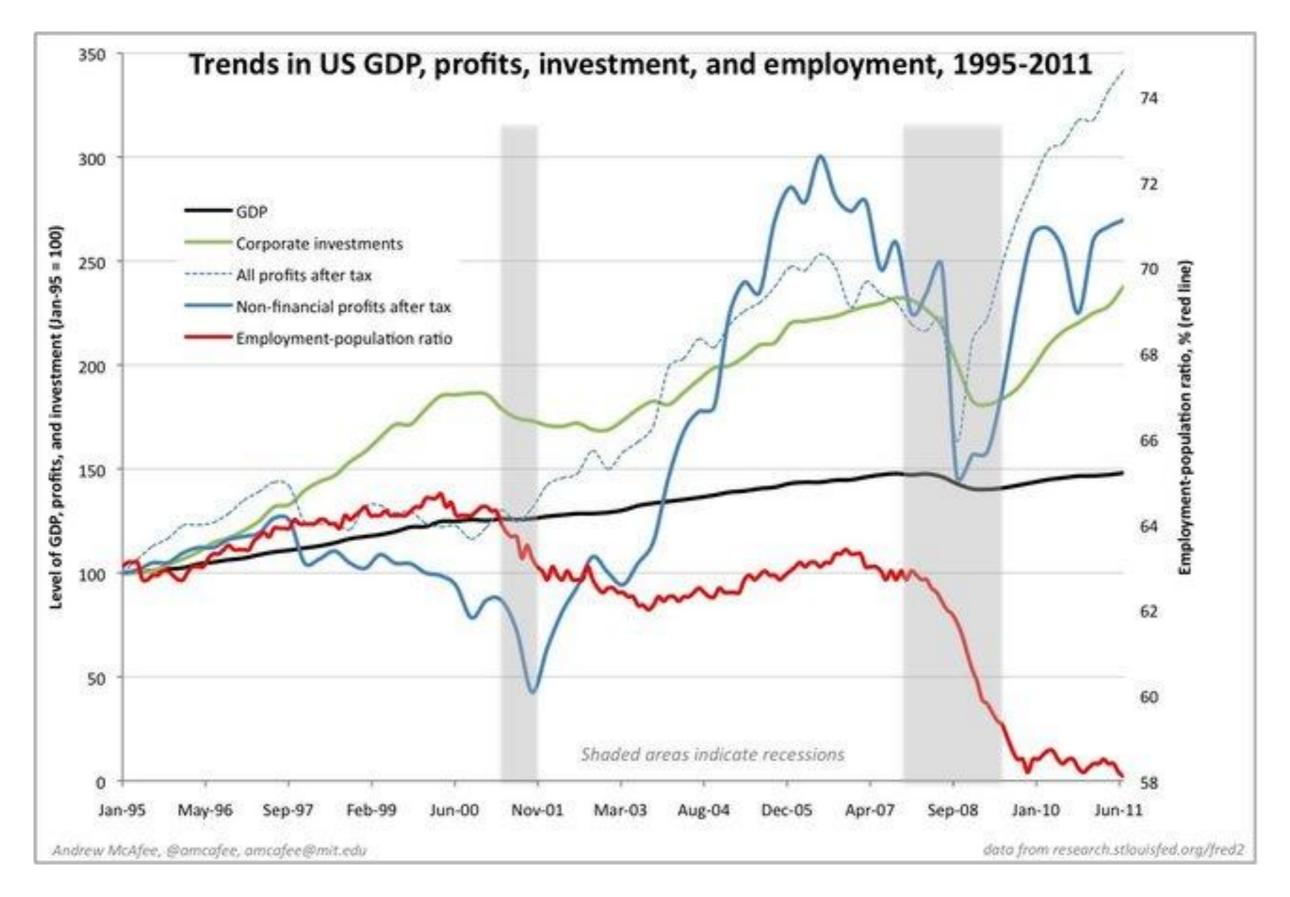
Years

-40

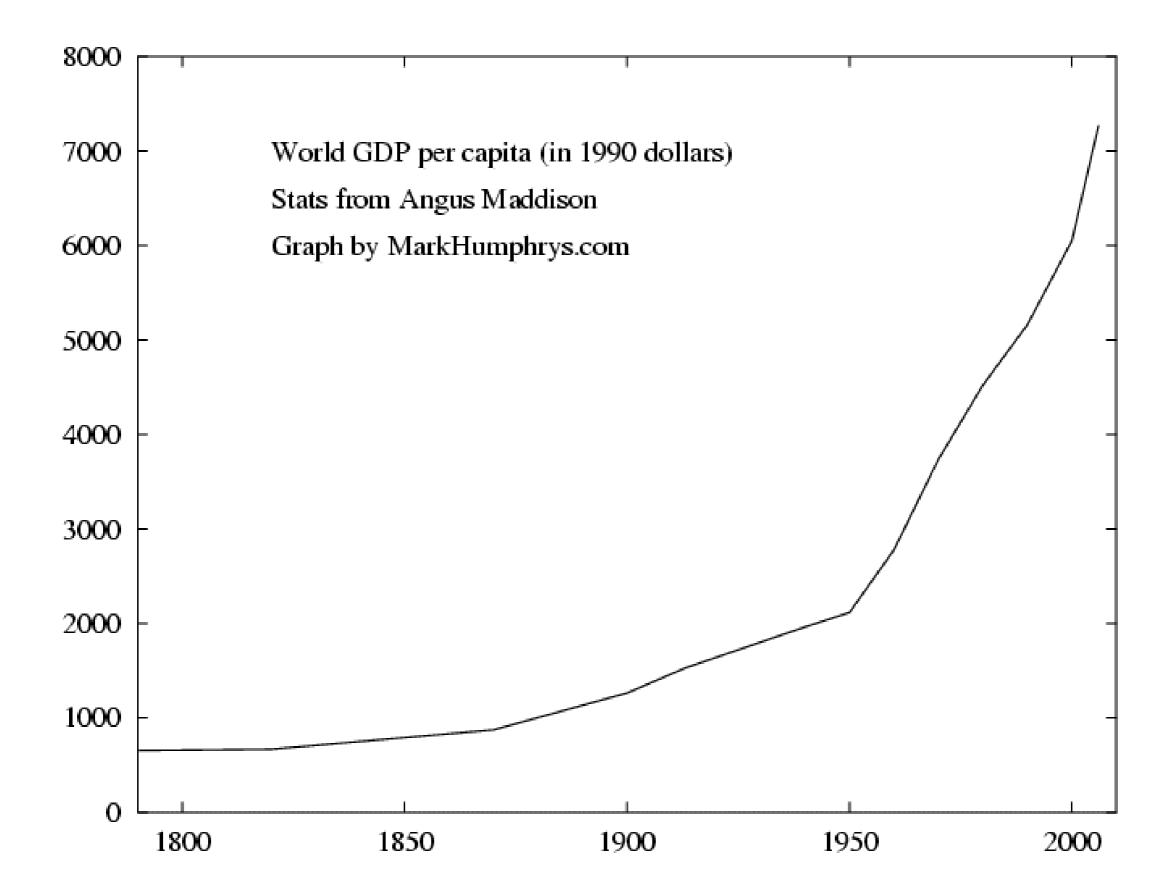
U.S. Manufacturing: Output vs. Jobs January 1972 to August 2010

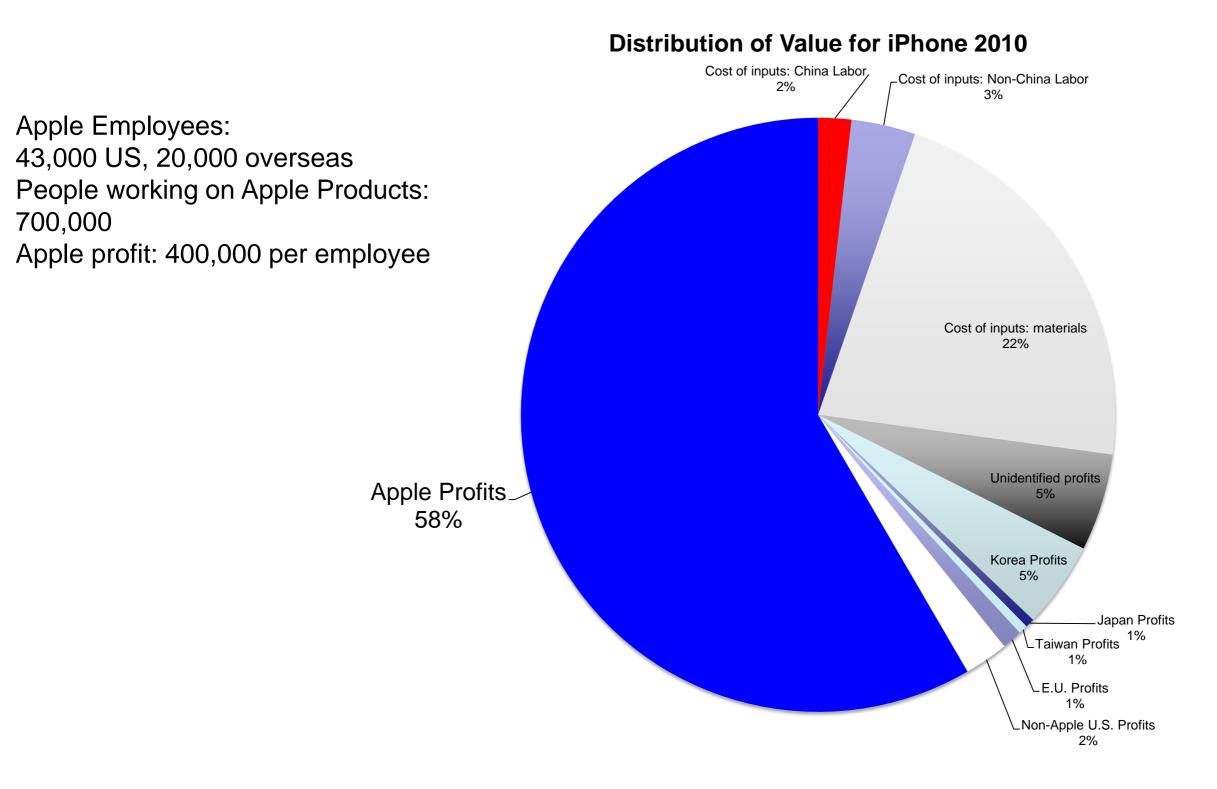


http://www.dailymarkets.com/economy/2010/10/03/increases-in-u-s-worker-productivity-more-than-chinas-currency-responsible-for-loss-of-u-s-jobs/



http://campaignstops.blogs.nytimes.com/2012/07/08/the-future-of-joblessness/





Kraemer, K. L., Linden, G., & Dedrick, J. (2011). Capturing Value in Global Networks: Apple's iPad and iPhone. Irvine, CA: Personal Computer Industry Center, UC-Irvine.



Mass Entrepreneurship

Business entrepreneurs Social entrepreneurs Intrapreneurs Policy entrepreneurs

Entrepreneurial Qualities

Confidence	Friends	Risk-taking
Passion	Creativity	Alertness to opportunity
Global competency	Uniqueness	Empathy

Individual differences Multiple intelligences		
Cultural diversity	Schooling	Employable skills
Curiosity, passion, creativity		

Side Effects

Drug Facts	
Active ingredient (in each table Chlorpheniramine maleate 2 mg	t) Purpose Antihistamine
Uses temporarily relieves these symptoms allergies: sneezing runny nose it	
Warnings Ask a doctor before use if you have glaucoma a breathing problem such a trouble urinating due to an enlarged prostat Ask a doctor or pharmacist before use if y When using this product drowsiness may occur avoid alcoholic alcohol, sedatives, and tranquilizers may in be careful when driving a motor vehicle or of excitability may occur, especially in children If pregnant or breast-feeding, ask a health Keep out of reach of children. In case of o Control Center right away.	te gland rou are taking tranquilizers or sedatives drinks icrease drowsiness operating machinery
Directions adults and children 12 years and over	take 2 tablets every 4 to 6 hours; not more than 12 tablets in 24 hours
children 6 years to under 12 years	take 1 tablet every 4 to 6 hours; not more than 6 tablets in 24 hours

ask a doctor

 Drug Facts (continued)

 Other information ■ store at 20-25°C (68-77°F)

 ■ protect from excessive moisture

 Inactive ingredients

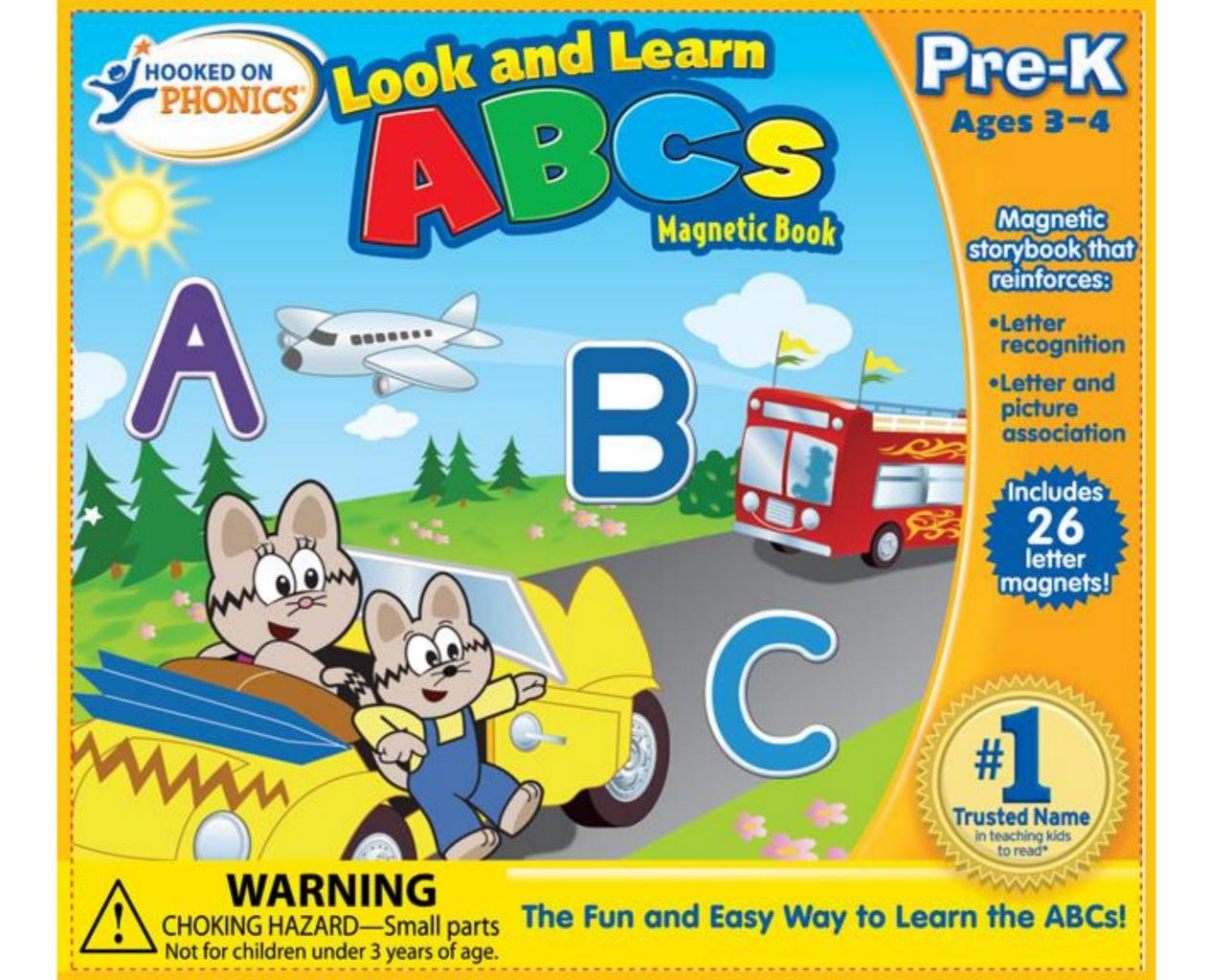
 D&C yellow no. 10, lactose, magnesium stearate, microcrystalline

children under 6 years

Inactive ingredients D&C yellow no. 10, lactose, magnesium stearate, microcrystalline cellulose, pregelatinized starch THIS MEDICINE MAY AFFECT MENTAL ALERTNESS AND/OR COORDINATION. IF AFFECTED, DO NOT DRIVE A MOTOR VEHICLE OR OPERATE MACHINERY.

> THIS MEDICINE MAY CAUSE DROWSINESS AND MAY INCREASE THE EFFECTS OF ALCOHOL. IF AFFECTED DO NOT DRIVE A MOTOR VEHICLE OR OPERATE MACHINERY.





Why Didn't China Have a Big Party?

Math



Shanghai, China



Singapore



2009

PISA

Results

Hong Kong, China



South Korea



Taiwan

Finland



Liechtenstein



Switzerland

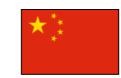


____ Japan



Canada

Sciences



S

(***

Shanghai, China

Hong Kong, China



Finland

Singapore

South Korea

New Zealand

Canada

Estonia

Australia

Japan



Shanghai, China



Reading

South Korea

Finland



C



Hong Kong, China

Singapore

Canada



New Zealand



Japan

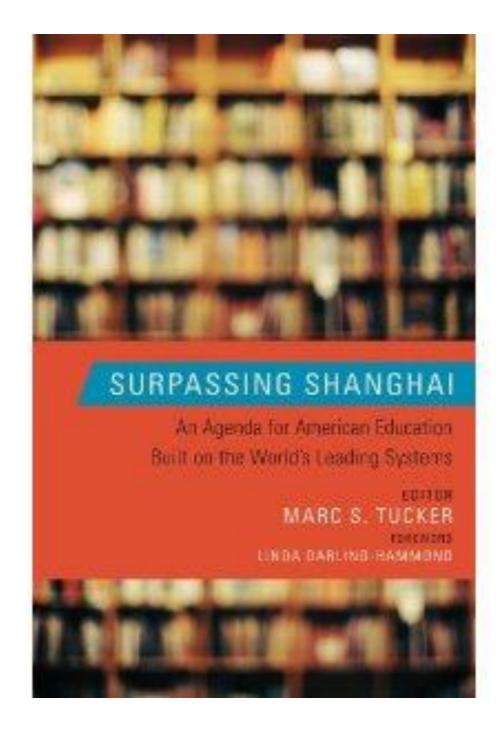


Australia

Netherlands



Arne Duncan: "A wake-up call"



Barack Obama: "A Sputnik moment"

A Grattan Institute report, to be released today, shows Australian performance has slipped since 2000, with maths students now more than two years behind children in Shanghai and one to two years behind children in Hong Kong, Singapore and South Korea.

--Sydney Morning Herald, 02-17-2012

http://www.smh.com.au/national/education/australian-students-lag-asia-by-three-years-20120216-1tbt8.html#ixzz1me2MH9mL

We've become a nation of wusses. The Chinese are kicking our butt in everything. If this was in China do you think the Chinese would have called off the game? People would have been marching down to the stadium. They would have walked and they would have been doing calculus on the way down...

--Former Pennsylvania Governor Ed Rendell on the rescheduling of an NFL game, 2010 http://voices.washingtonpost.com/44/2010/12/ed-rendell-were-a-nation-of-wu.html

I am happy to confess I'd like us to implement a cultural revolution just like the one they've had in China...Like Chairman Mao, we've embarked on a Long March to reform our education system. --Michael Gove, British Secretary of State for Education http://www.telegraph.co.uk/education/8227535/Michael-Gove-my-revolution-for-culture-in-classroom.html

Qian Xuesheng: "Why doesn't China have great talents?"



Wen Jiabao: "China must have entrepreneurs like Steve Jobs"

Kai-fu Lee: The next Apple or Google will appear, but not in China...unless it abolishes its education.

Real Dragon or Paper Tiger: Patent filings in 2008

U.S.A. 400,769 filings Japan 502,054 filings China 203,481 filings Europe 14,525 filings U.S.A. 14,399 filings Japan 13,446 filings China 473 filings

In 2010 China accounted for

20% of the world's population
9% of the world's GDP
12% of the world's R&D expenditure
1% of the patent filings with or patents granted by any of the leading patent offices outside China.
50 % of the China-origin patents were granted to subsidiaries of foreign multinationals

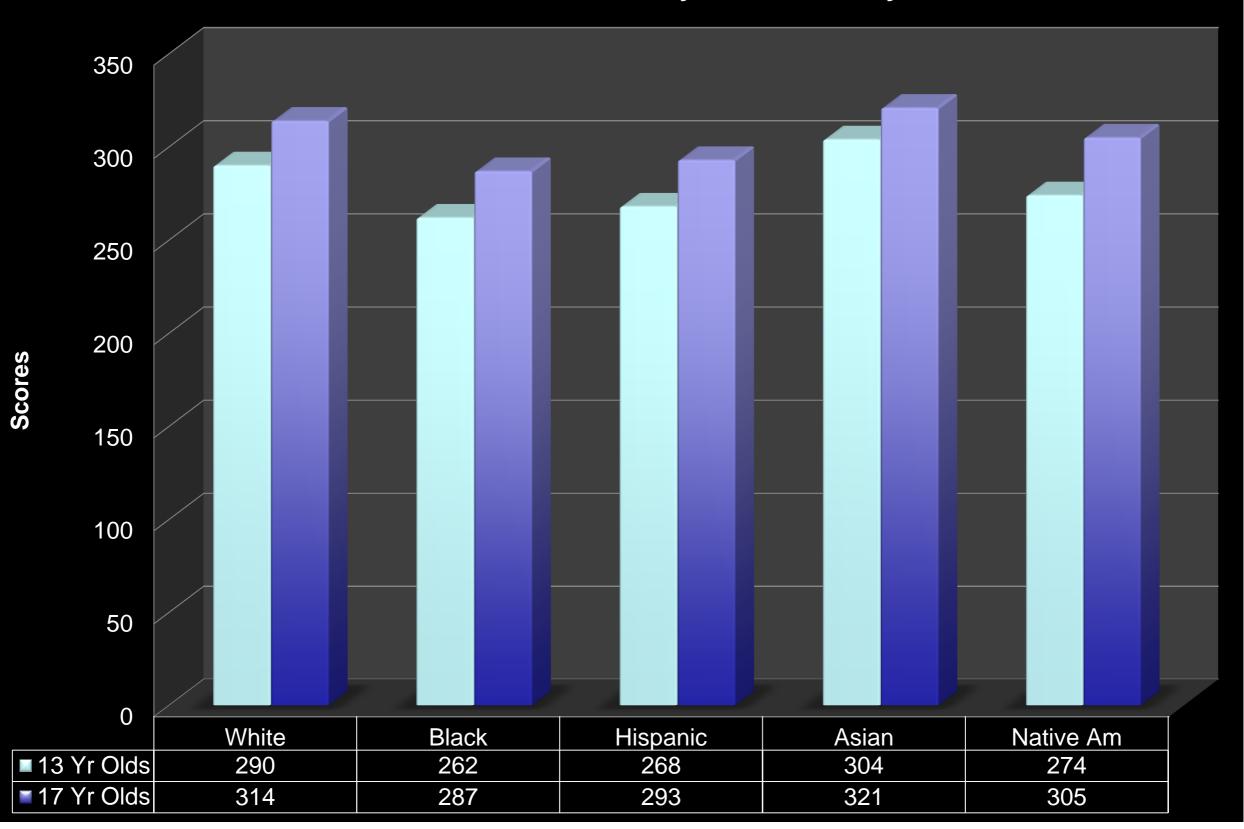


Steve Wozniak: Apple couldn't emerge in societies like Singapore where 'bad behavior is not tolerated' and people are not taught to think for themselves.

Alexis Ong: Wozniak's comments are really a scathing indictment of the Singapore education system, its strictly regimented curriculum and by-rote study techniques that sustain the city's "formal culture."

Why Aren't the Model Minority Happy?

2008 NAEP Math Scores by Race/Ethnicity



http://nces.ed.gov/pubs2012/2012026/tables/table_12b.asp

Asian Americans

- 5% of the US population
- 15 to 25% of Ivy League enrollment
- 24% at Stanford
- 46% at UC Berkeley
- 64 percent of Asians versus 52 percent for Caucasians want to hold top positions
- 2% of total 5,520 board seats of the Fortune 500 (98 of them have Asians on their board)

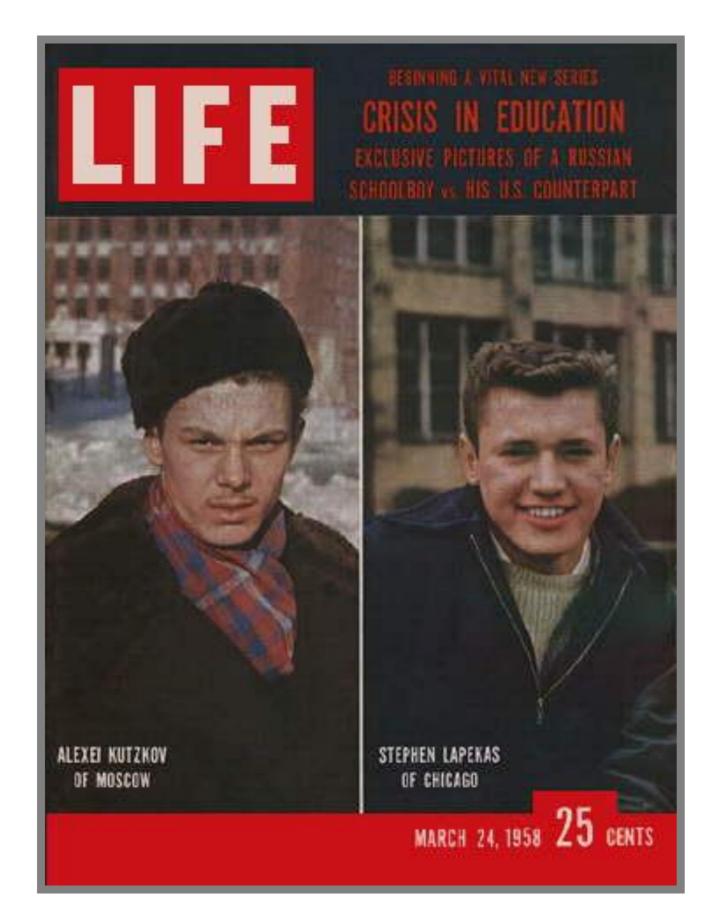
http://www.worklifepolicy.org/documents/TopAsianTalent_PressRelease_7.20.11.pdf http://aapress.com/business/report-only-96-asians-hold-fortune-500-board-seats/

Why Is the U.S. Still Here?

Alexei vs Stephen: Curriculum and Time

Inside photos showed Alexei doing complicated experiments in physics and chemistry and reading aloud from *Sister Carrie*.

1958



Stephen, by contrast, retreated from a geometry problem on the blackboard and the caption advised, "Stephen amused class with wisecracks about his ineptitude." Seated at a typewriter in typing class, Stephen tells us "I type about one word a minute."



To Glenn Seabora With apprect 1983 Japan Our Nation is at risk. Our once unchallenged preeminence in commerce, industry, science, and technological innovation is being overtaken by competitors throughout the world.

the educational foundations of our society are presently being eroded by a rising tide of mediocrity that threatens our very future as a Nation and a people.

We are raising a new generation of Americans that is scientifically and technologically illiterate.

Elephant vs. doctor: Aspirations



2 Million Minutes

Bob Compton

Source: http://www.2mminutes.com/pressblog6.ht

ml

A Long History of Bad Test-takers

• 1960s

- FIMS: 12th out of 12 countries

– FISS: 14th out of 18 countries

• 1970s/1980s

SIMS: 12, 14, 12, 12out of 15 (number systems, algebra, geometry, calculus)
 SISS: 14th (biology), 12th (chemistry), 10th (physics) out of 14

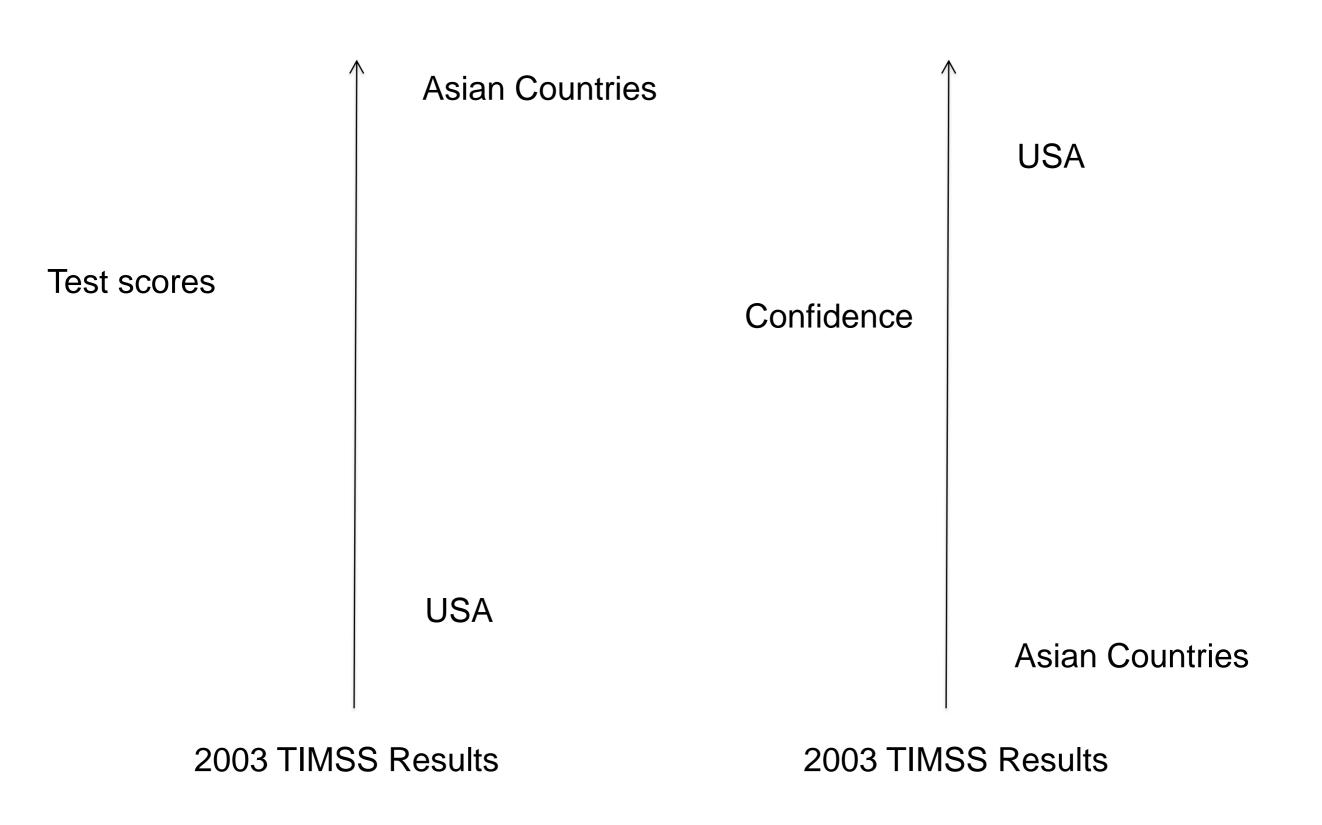
1990s—2007: TIMSS (8th graders)

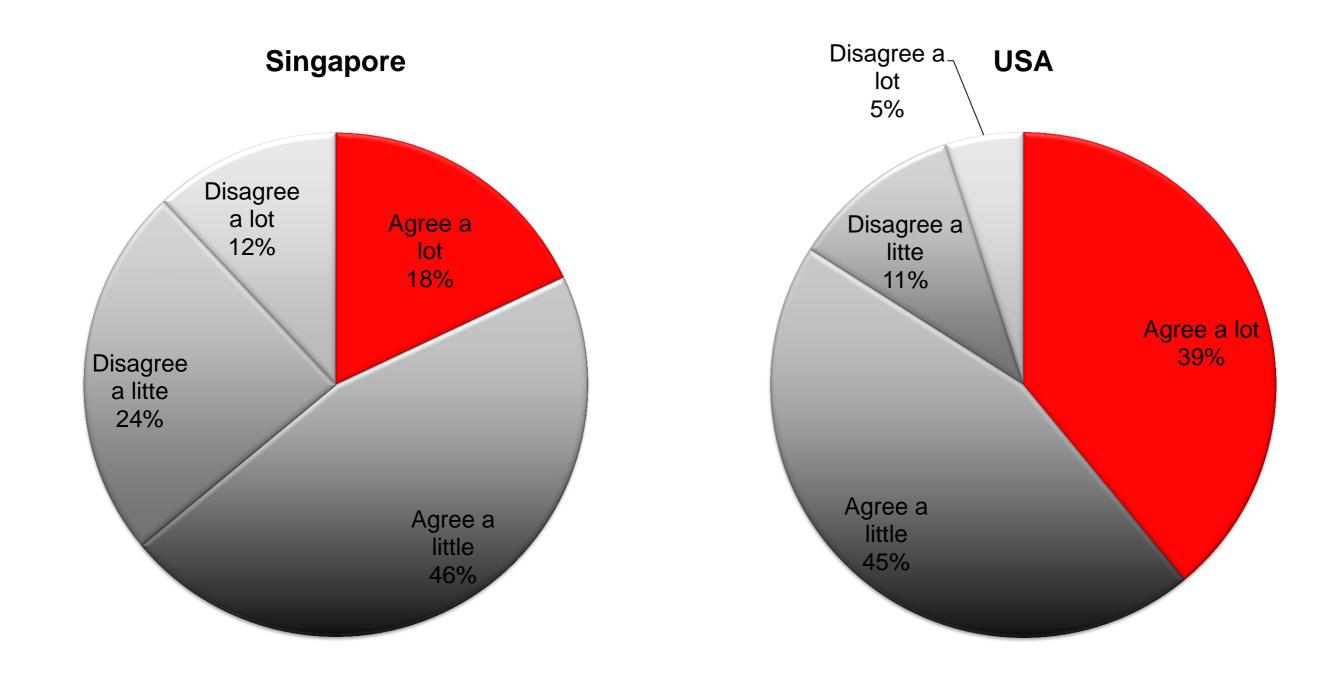
- 28th out of 42 in 1995
- 15th in 2003
- 9th in 2007

...America still has the largest, most prosperous economy in the world. (Applause.) No workers -- no workers are more productive than ours. No country has more successful companies, or grants more patents to inventors and entrepreneurs. We're the home to the world's best colleges and universities, where more students come to study than any place on Earth.

--President Obama, 2011 State of the Union Address

Possible Explanations





Responses to "I usually do well in Math"

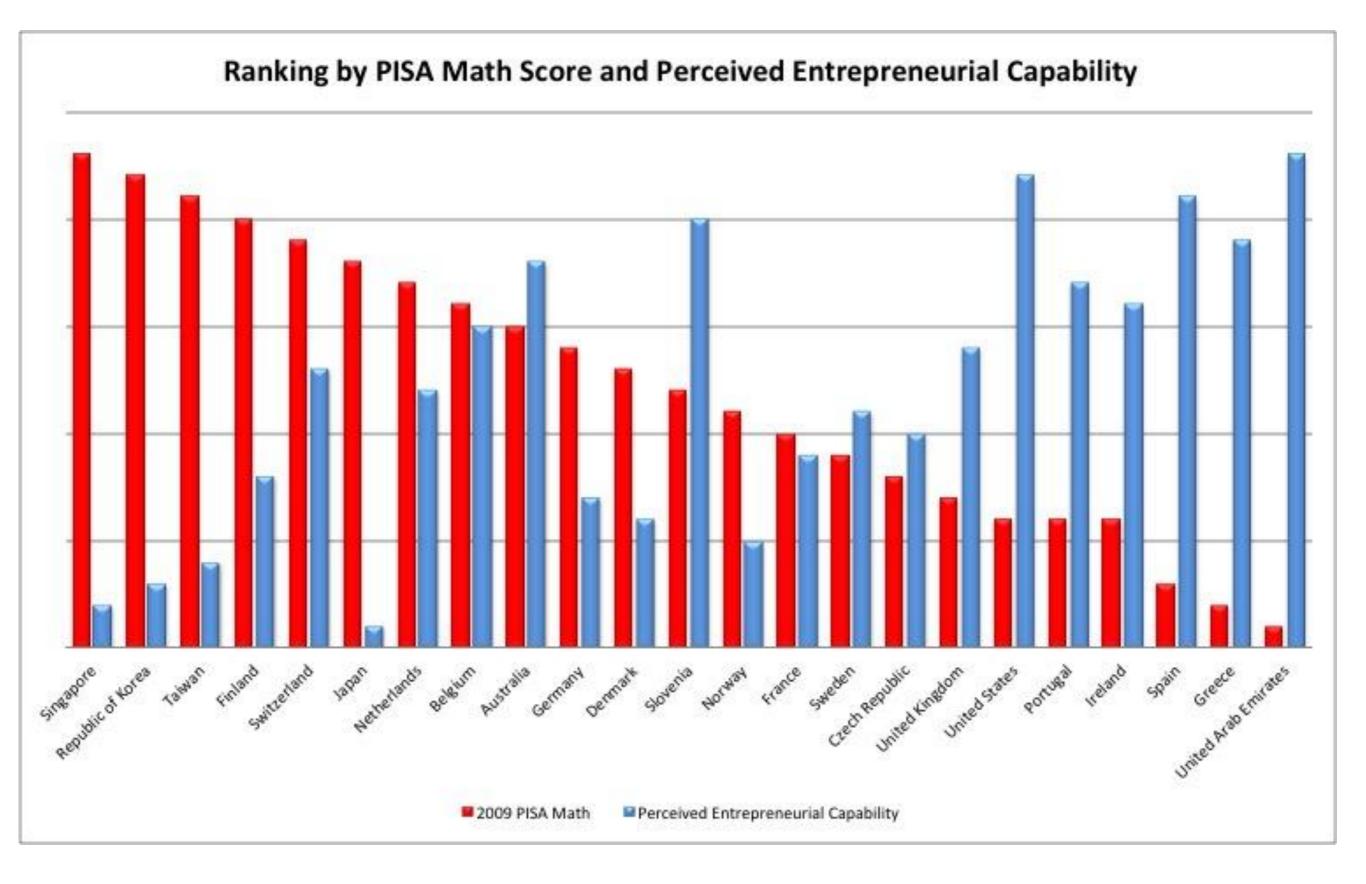
Correlations between TIMSS Math Score and Confidence and Enjoyment

	Grade	Correlation
	4	-0.58
Confidence	8	-0.64
	4	-0.67
Enjoyment	8	-0.75

Tom Loveless (2006): How Well Are American Students Learning http://www.brookings.edu/~/media/Files/rc/reports/2006/10education_loveless/10education_loveless.pdf

It is a miracle that curiosity survives formal education.

--Albert Einstein



Correlations between PISA and Entrepreneurship Indicators

	PISA Reading	PISA Math	PISA Sciences
Perceived Capabilities	595**	586**	608**
Nascent Entre Rate	693**	636**	678**
New Biz Ownsp Rate	371*	374*	392*
Total Early Stage Entre Activity	658**	620**	658**
Total Early Stage Entre Activity	658**	620**	658**

Data source: OECD PISA 2010, Global Entrepreneurship Monitor, 2010

Lady Gaga

Lady Gaga



If you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid.

--Albert Einstein

In our travels to China it was everywhere, that laser-focus on education...This public school in Shanghai where the children are two years old. By three they are in school from 8 until 4, already learning phrases in English...On average Chinese students attend schools 41 more days than American students a year and with extra lessons on the weekend, Chinese students receive 30% more hours of instruction. --ABC World News with Diane Sawyer, 2010

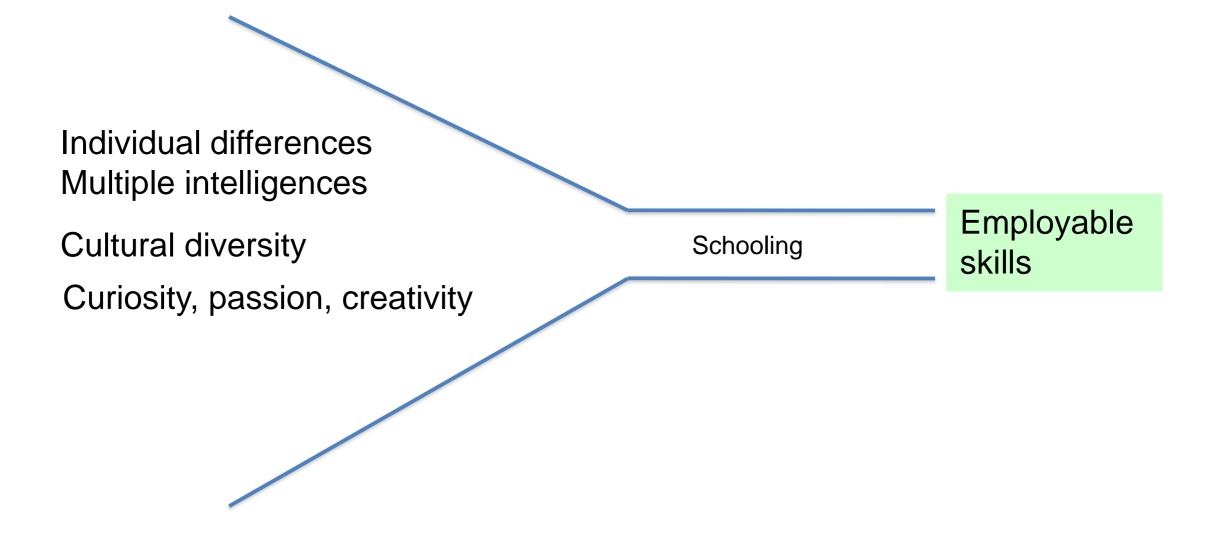
http://abcnews.go.com/Politics/china-debuts-top-international-education-rankings/story?id=12336108#.Tz5va0xU2Fc

...what they learn and how they learn are subjects of constant debate. Critics see young people as being "fed" learning because they are seldom left on their own to learn in a way of their choice. They have little direct encounters with nature, for example, and little experience with society either. While they have learned a lot, they may not have learned how to learn.

--OECD, 2011 http://dx.doi.org/10.1787/9789264096660-en



The Difference between a \$10,000 Education and a \$10 Education



It is a miracle that curiosity survives formal education. ---Albert Einstein Individual differences Multiple intelligences

Cultural diversity Curiosity, passion, creativity

Schooling	Employable skills	

Individual differences Multiple intelligences Cultural diversity Curiosity, passion, creativity

New Paradigm

Individual differences Multiple intelligences

Curiosity, passion, creativity

Cultural diversity

Schooling

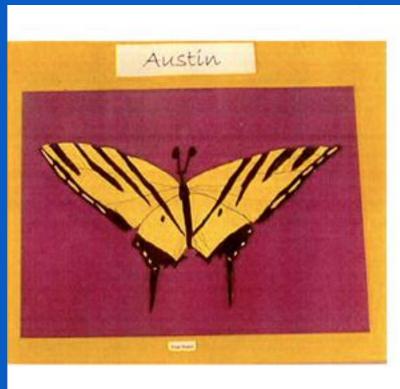
Enhanced Human Talents

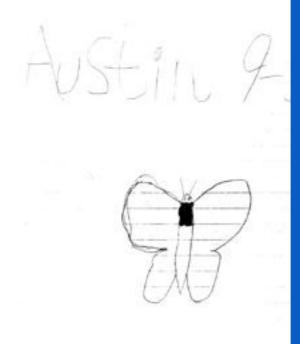


If Lady Gaga can be useful...

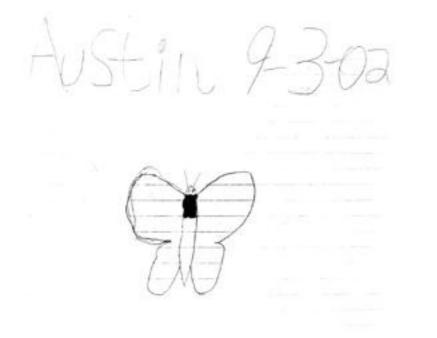
Personalized and strength-based educational experiences: Summerhill School

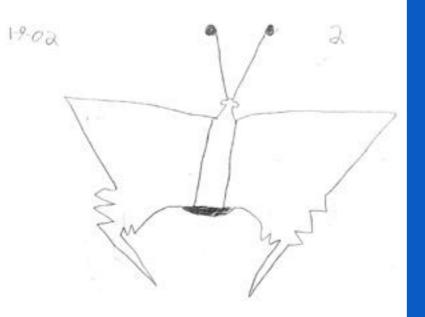
Austin's Butterfly...



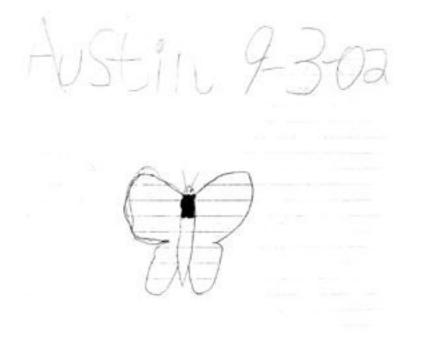


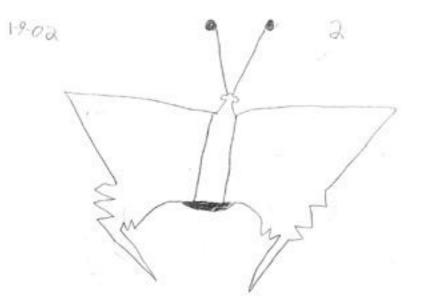


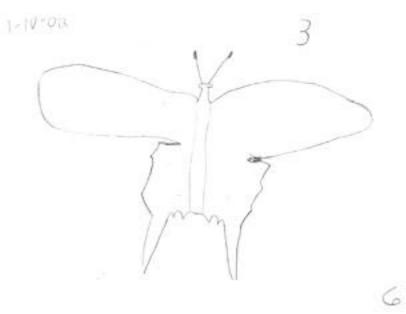


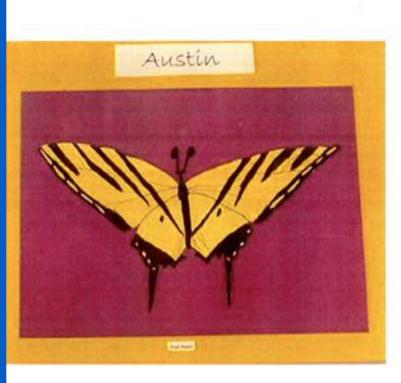




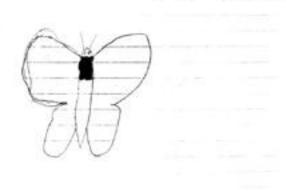


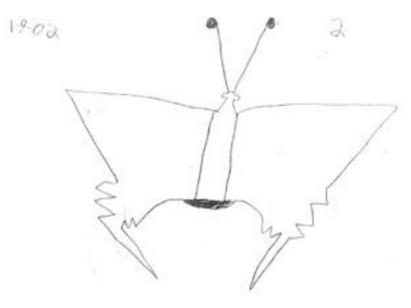


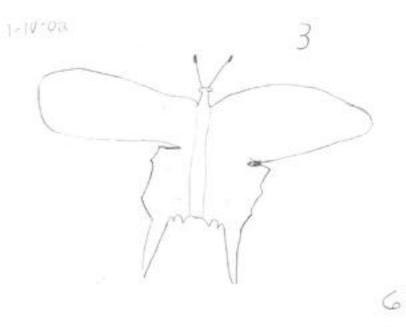


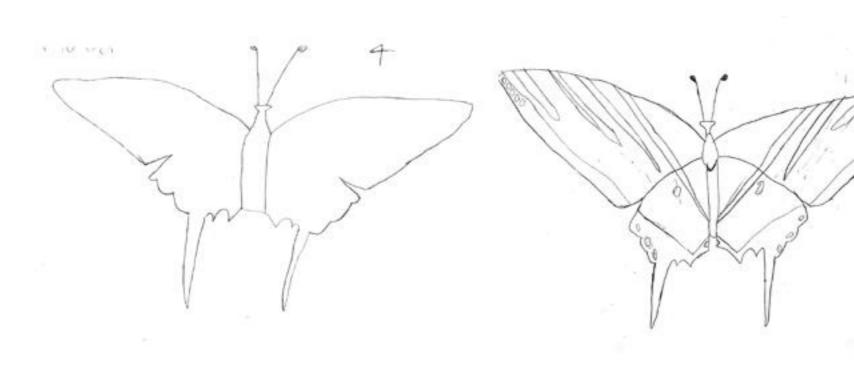


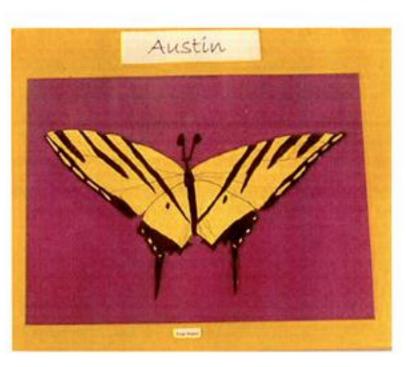












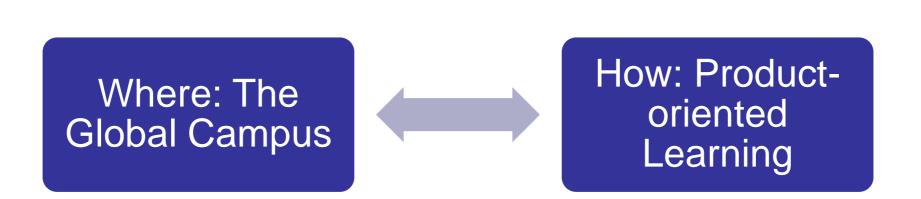
Product-oriented Learning: Multiple revisions, sustained and disciplined process, peer reviews **High Tech High**

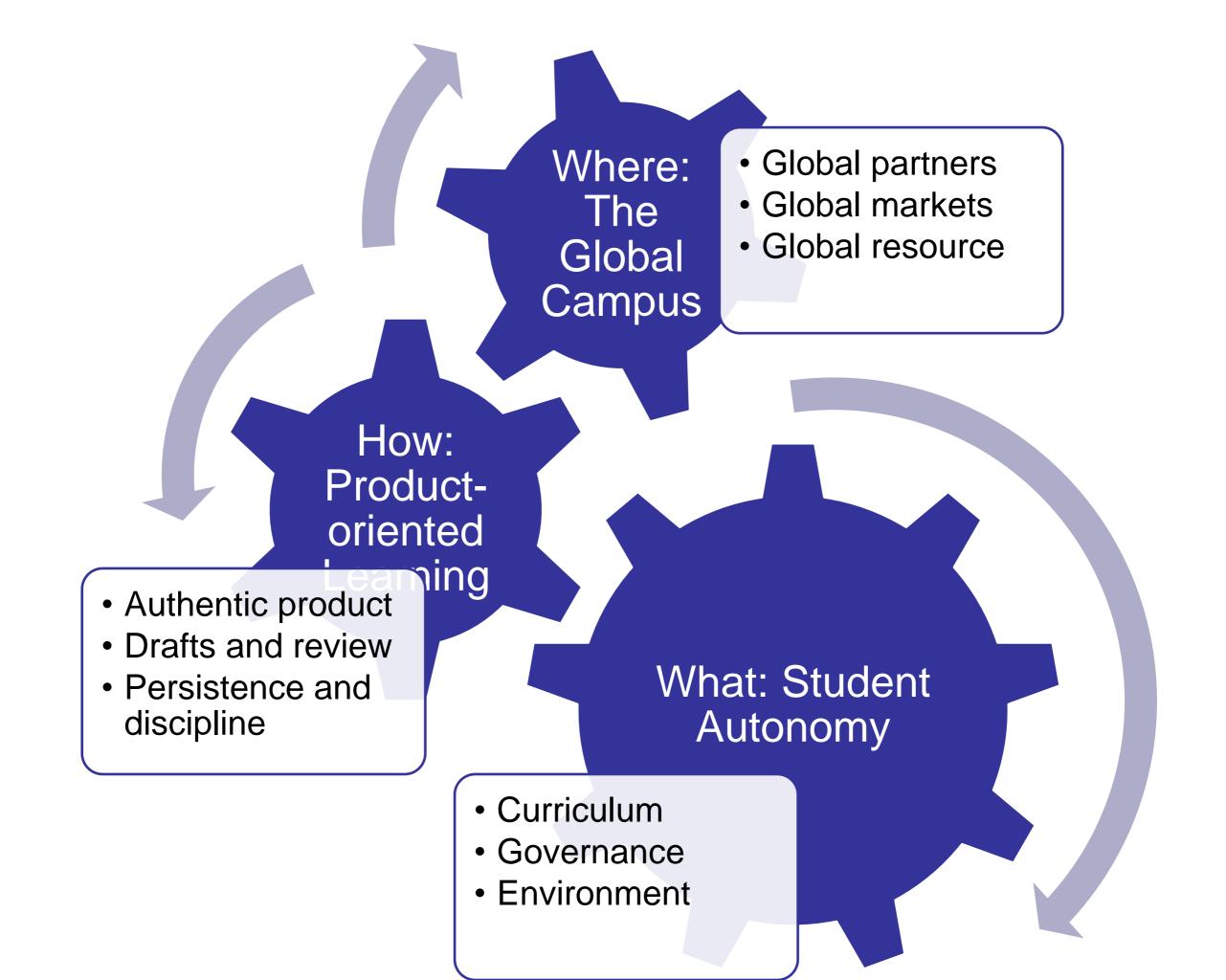
The Chicken Project

The Globalized Campus: Partners, Customers, and Investors: **Oxford and Cherwell School**

Entrepreneurship-oriented Education

What: Student Autonomy





Actions we could take: Fixing the ship or building a new ship

Some experiments

OBA http://globaleducation.uoregon.edu

http://zhaolearning.com