

Why universities will change or they will die SEE Into the Future

Almaty, May 27, 2015 (20 years left)



Education for paper, not for knowledge



Education inflation

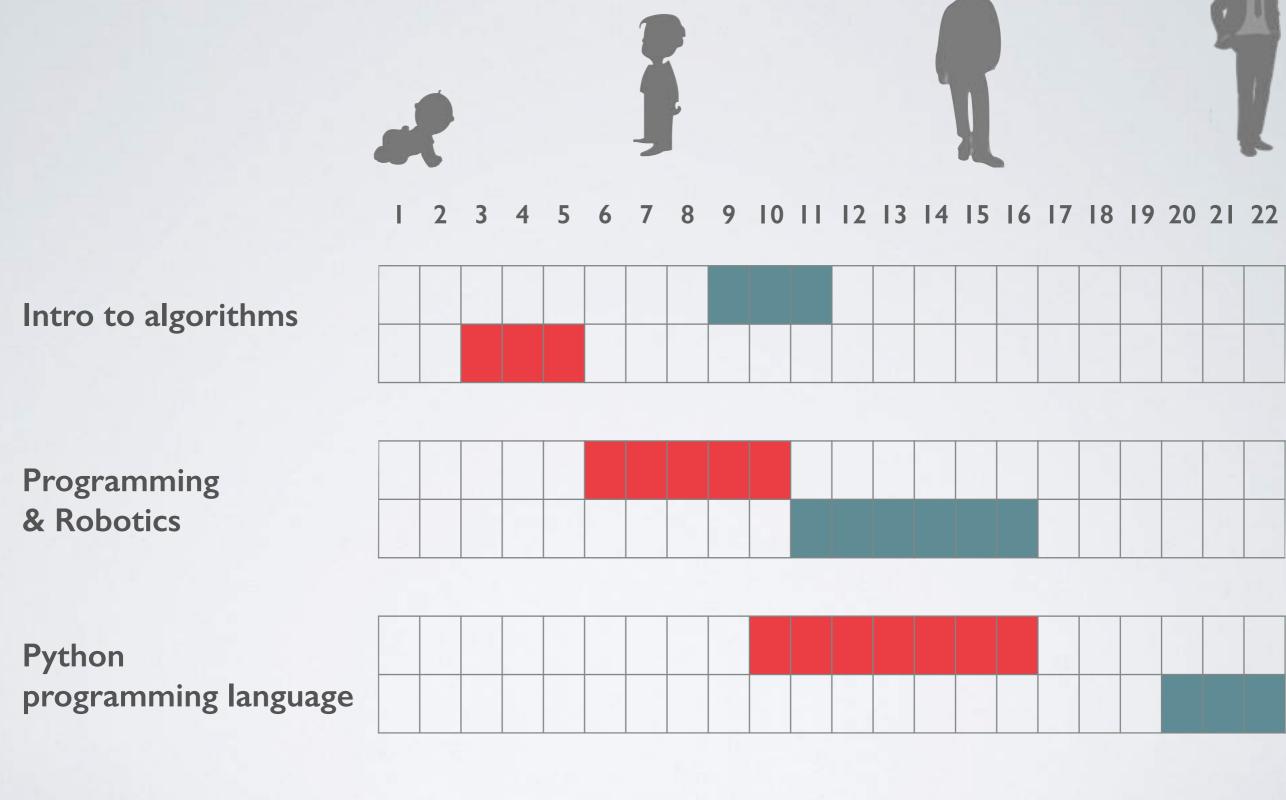
Education devaluation

I am getting more and more frustrated with the fact my university gives me no value

3d year IT student technical university in Almaty

runs own startup

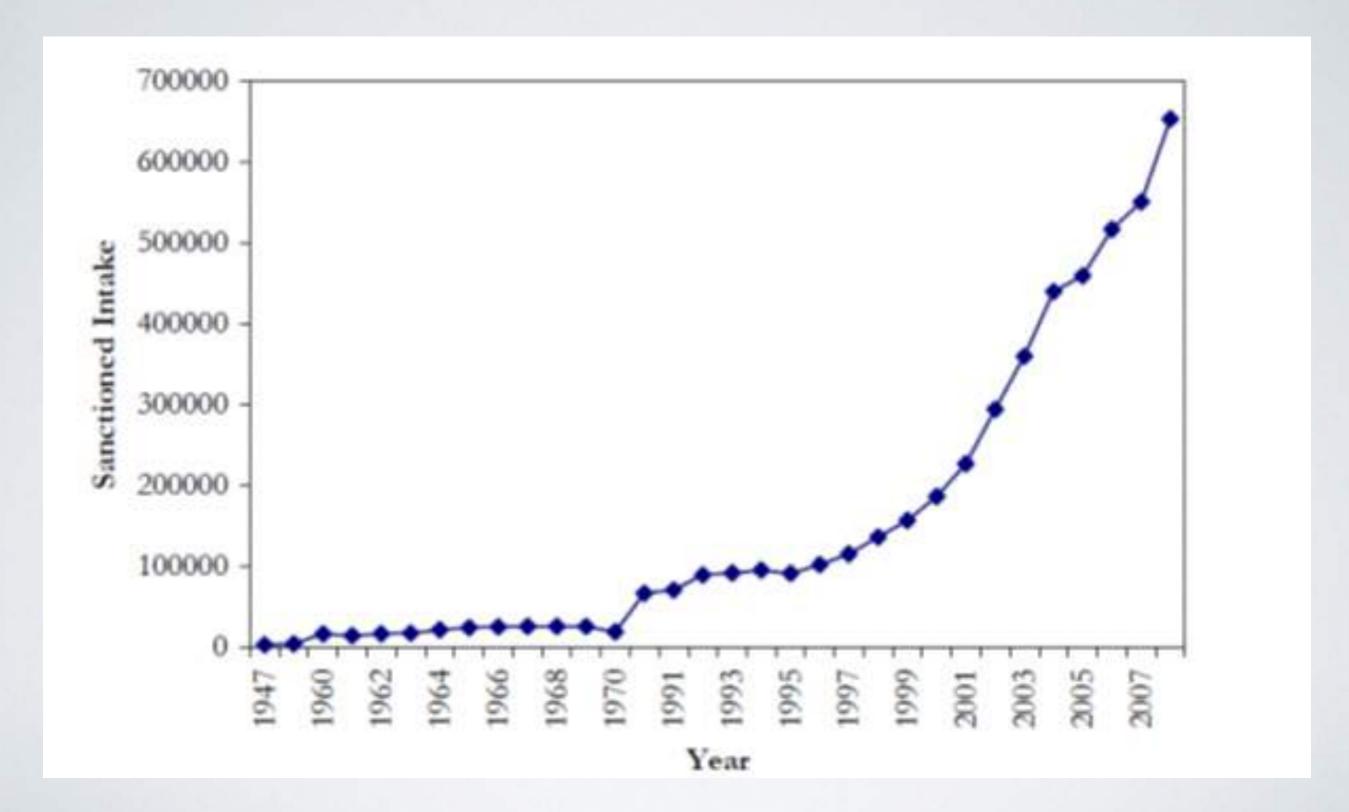
conversation on May 16, 2015



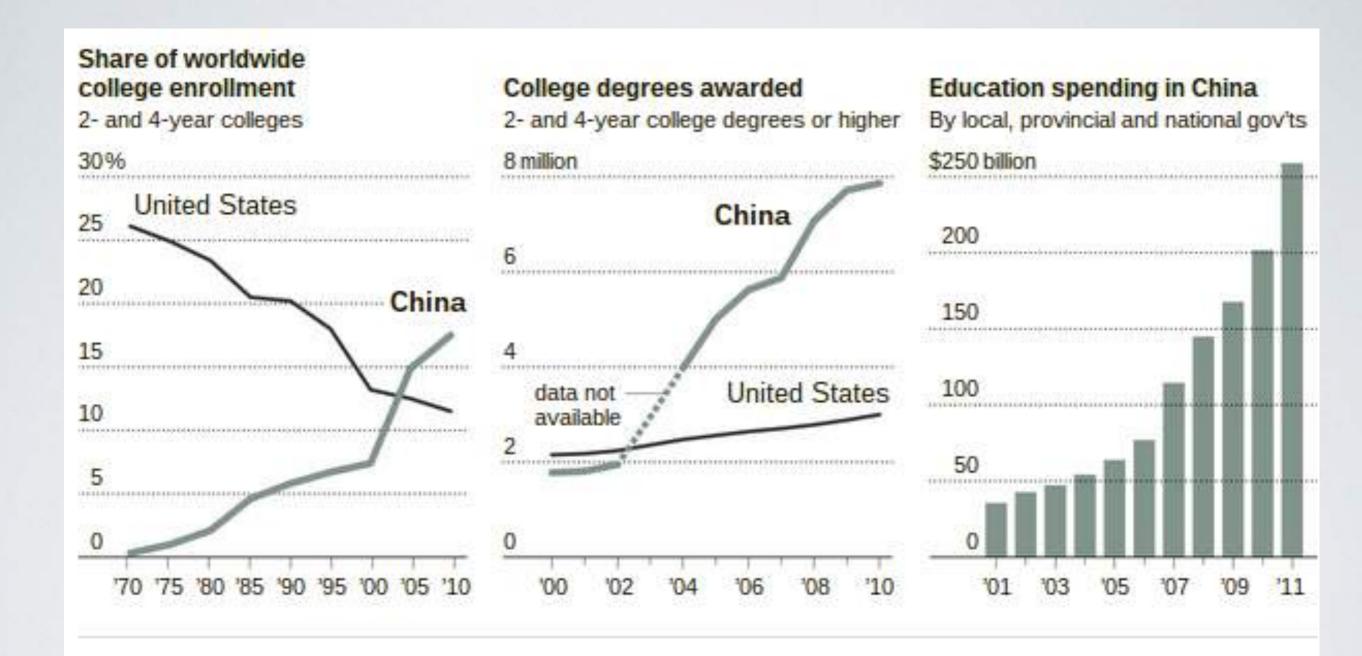


Israel, S.Korea, US, Singapore, Finland Kazakhstan

Intake of Indian students for engineering



China focuses on education



Sources: UNESCO (degrees, enrollment); China finance ministry, via CEIC Data (spending)

Graduates employment: considerations



School quality

Faculty training

Involvement of business

Salary, etc.



Technology

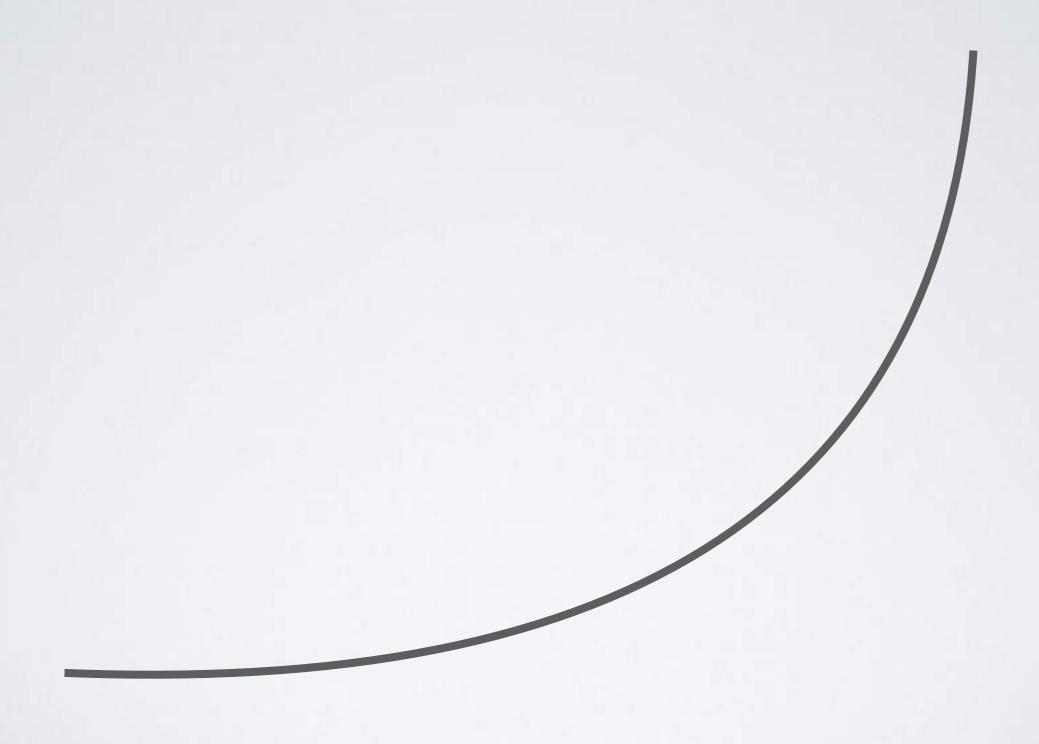
Labour mobility

Most likely you will find this fictitious



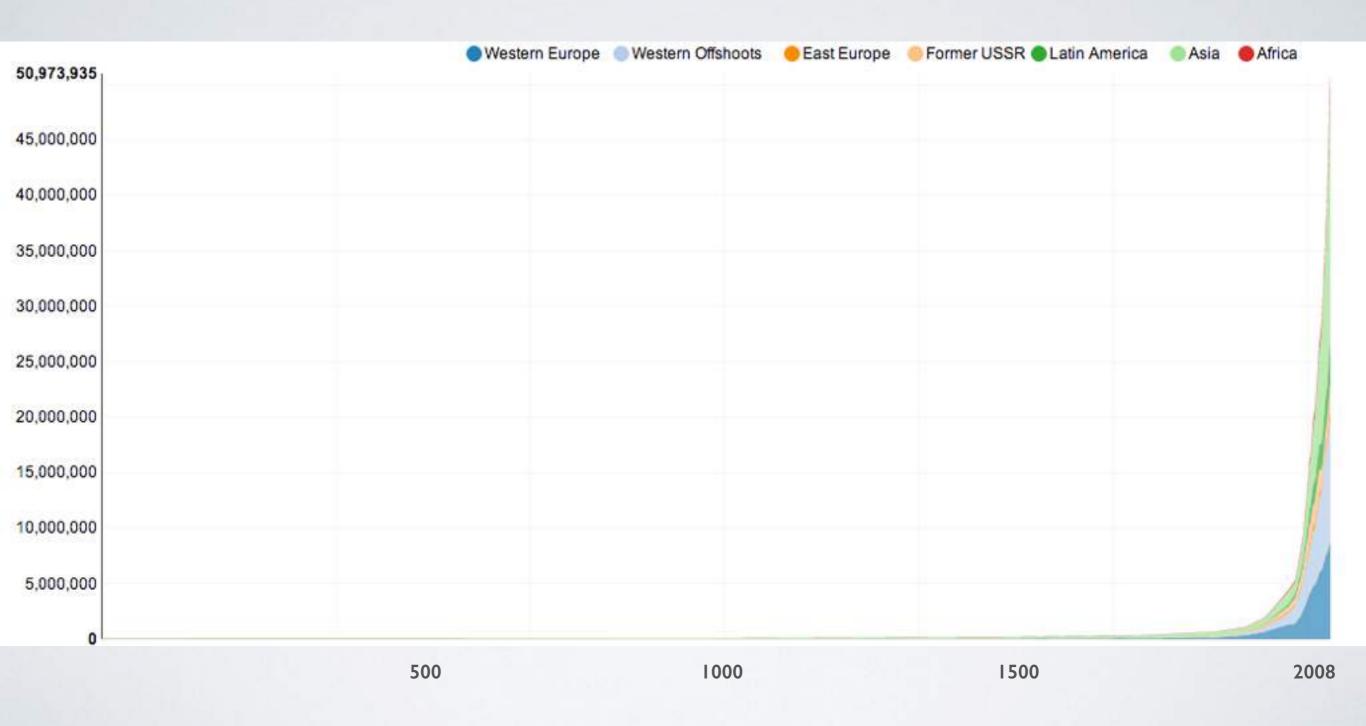
Future

Exponential growth

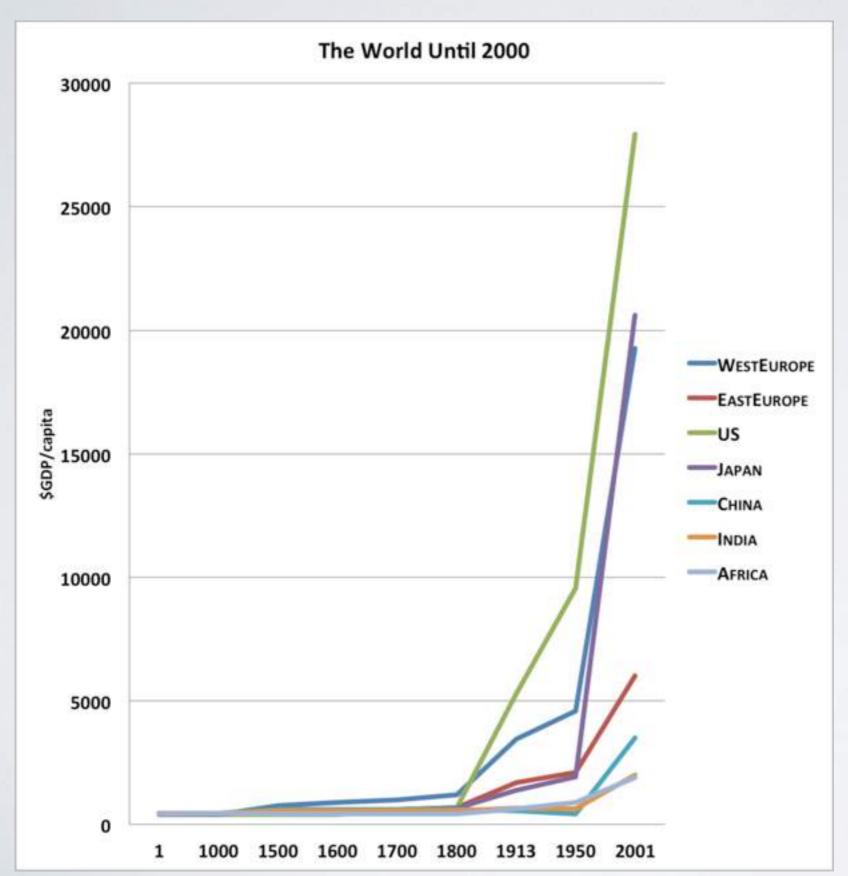


Real GDP for the last 2000 years

in 1990 USD



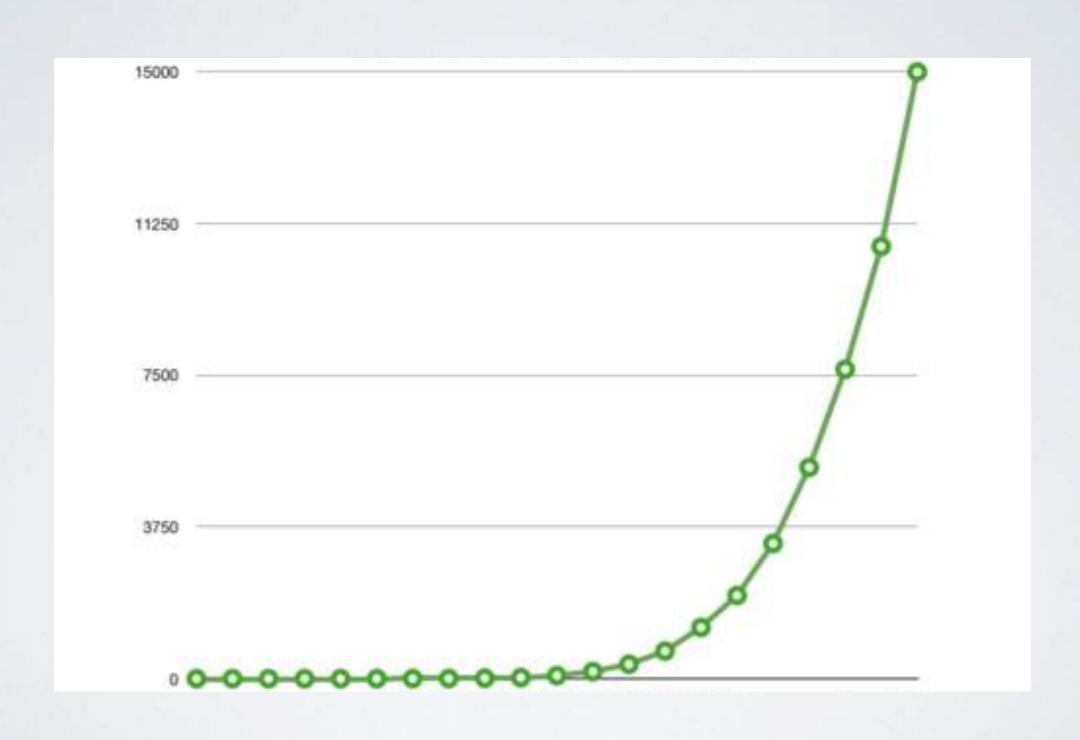
GDP per capita by region for 2000 years



http://www.theatlantic.com/business/archive/2012/06/the-economic-history-of-the-last-2000-years-part-ii/258762/

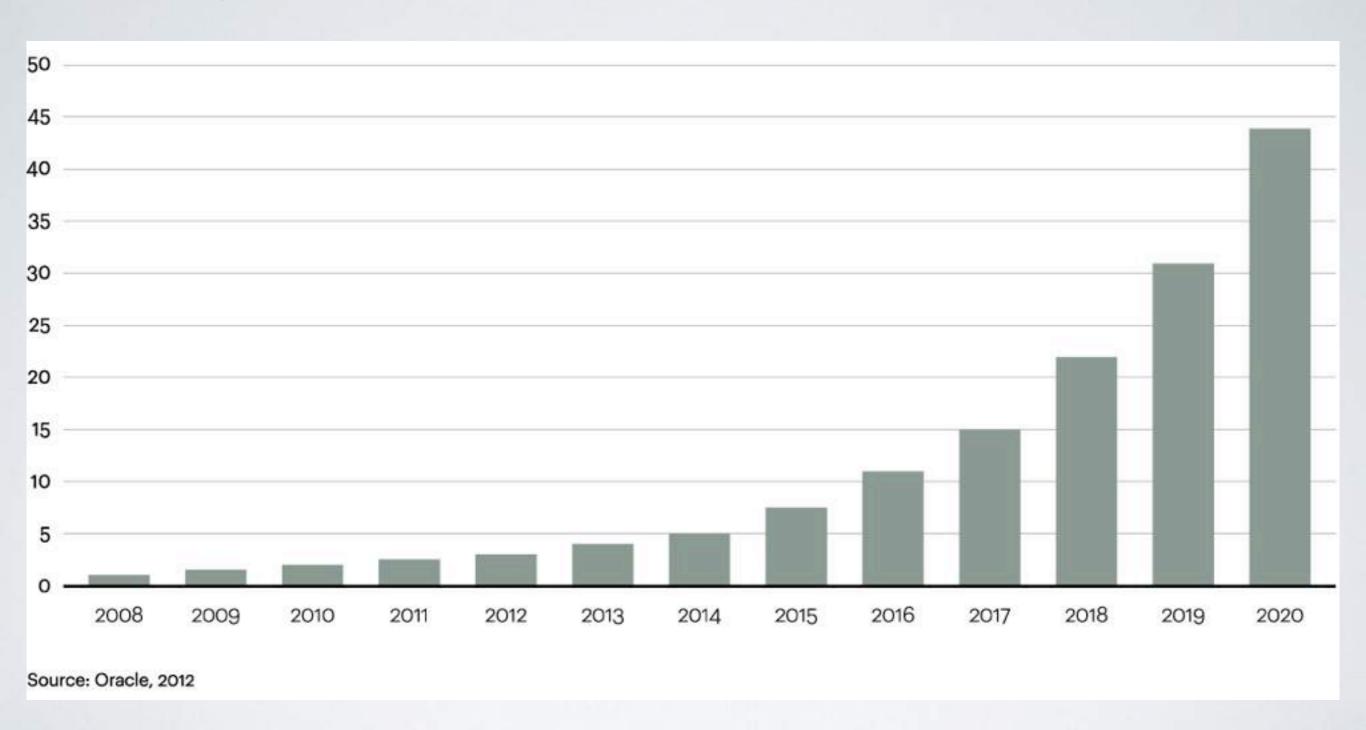
Global data traffic (1990 - 2010)

in petabytes / mo

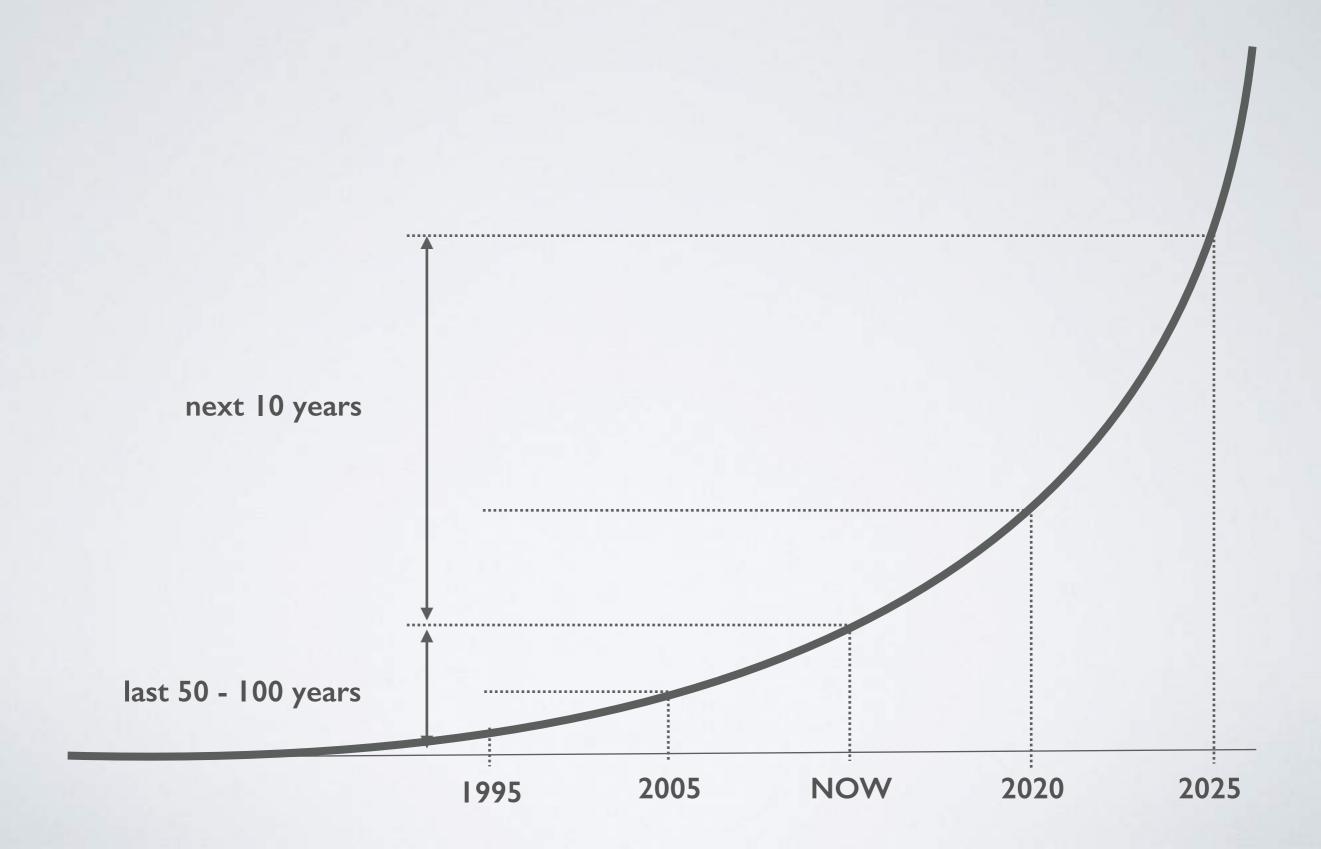


Data produced

in zettabytes



Machine age





David Yegembayev

my son born Jan 2015



4 mo

2015



5 y.o.

2020



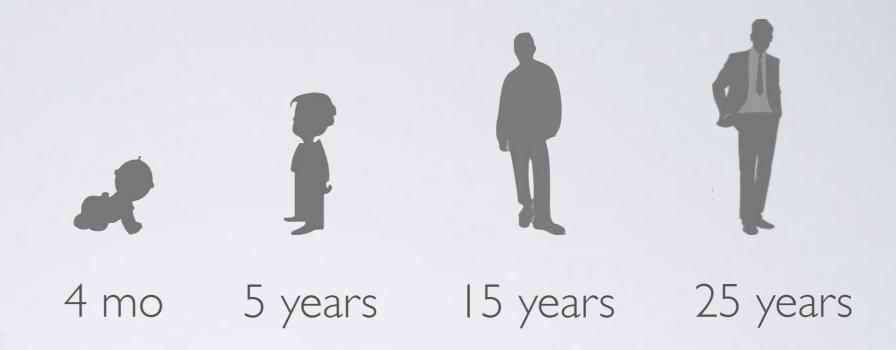
15 y.o.

2030



25 y.o.

2040



before 2015



Kasparov lost to computer
smartphones took over the market
computers understand human speech
robotic vacuum cleaners selling to consumers
voice calling is free



2015



consumer laptop app wins any human in chess play

90% of car production is robotised

3 - 4 min human operates jet in the air smartphone prices fell below \$100

IT companies are valued the most



population 8.7 bln
50% of work done by machines
driving cars by human will become illegal
nano-robots inside human body
physical human brain connected to virtual brain



50% of work done by machines

Financial analysts

Accountants

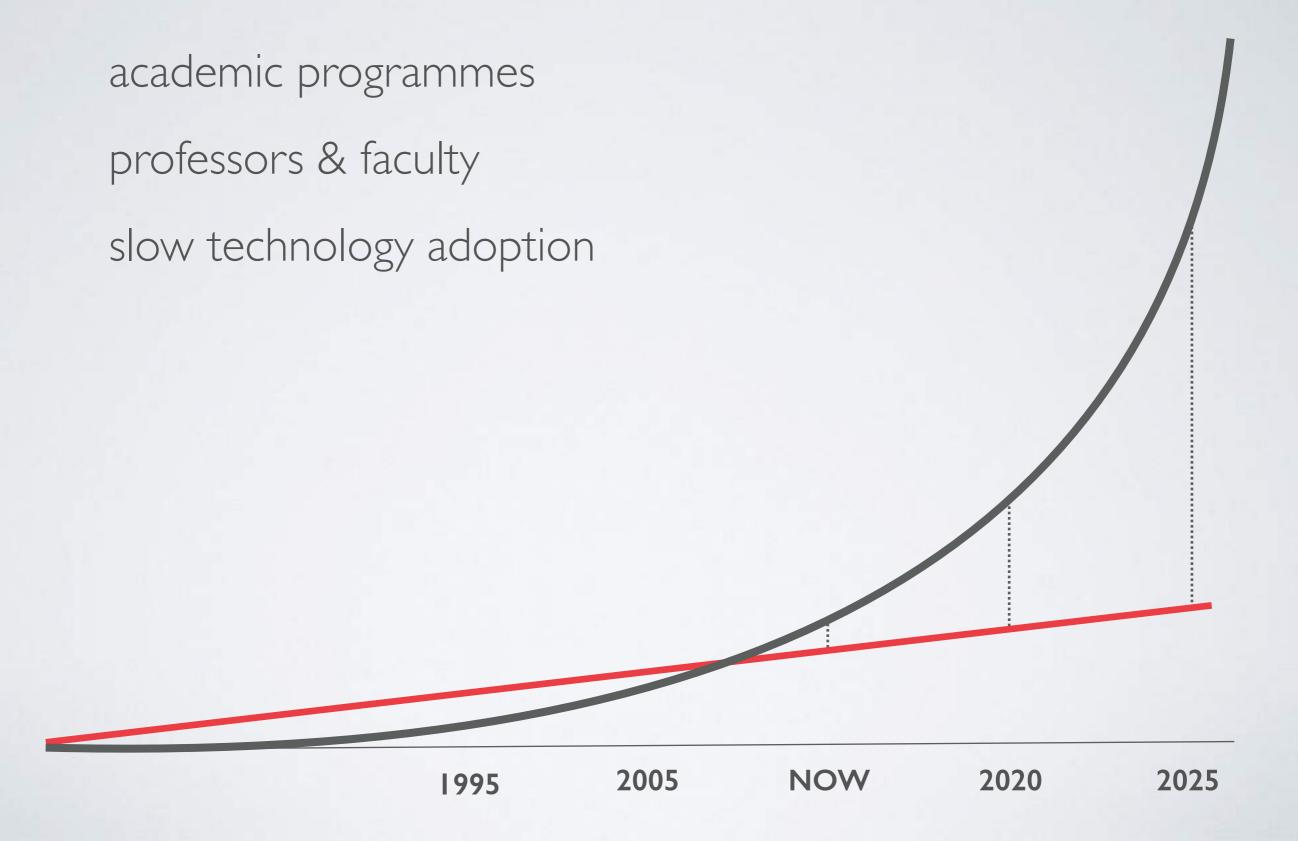
Programmers

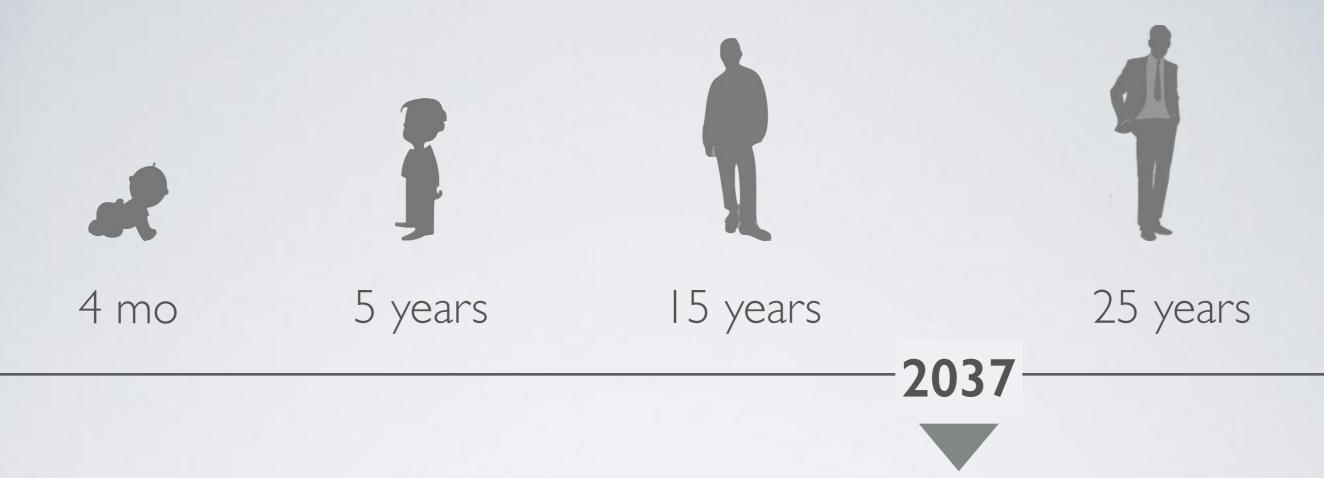
Consultants

Doctors (partially)

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business?
technology?
medicine?
science?
performing arts?
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Education severely falls behind





Professor PhD 15 - 20 years experience specialty + innovation expertise do we prepare these professors TODAY?

Universities will be changed. Or they will die

(c. 20 years left)

Risk:

business schools law schools medical universities

Prospects: engineering science arts





most universities are not capable to

teach things we don't know

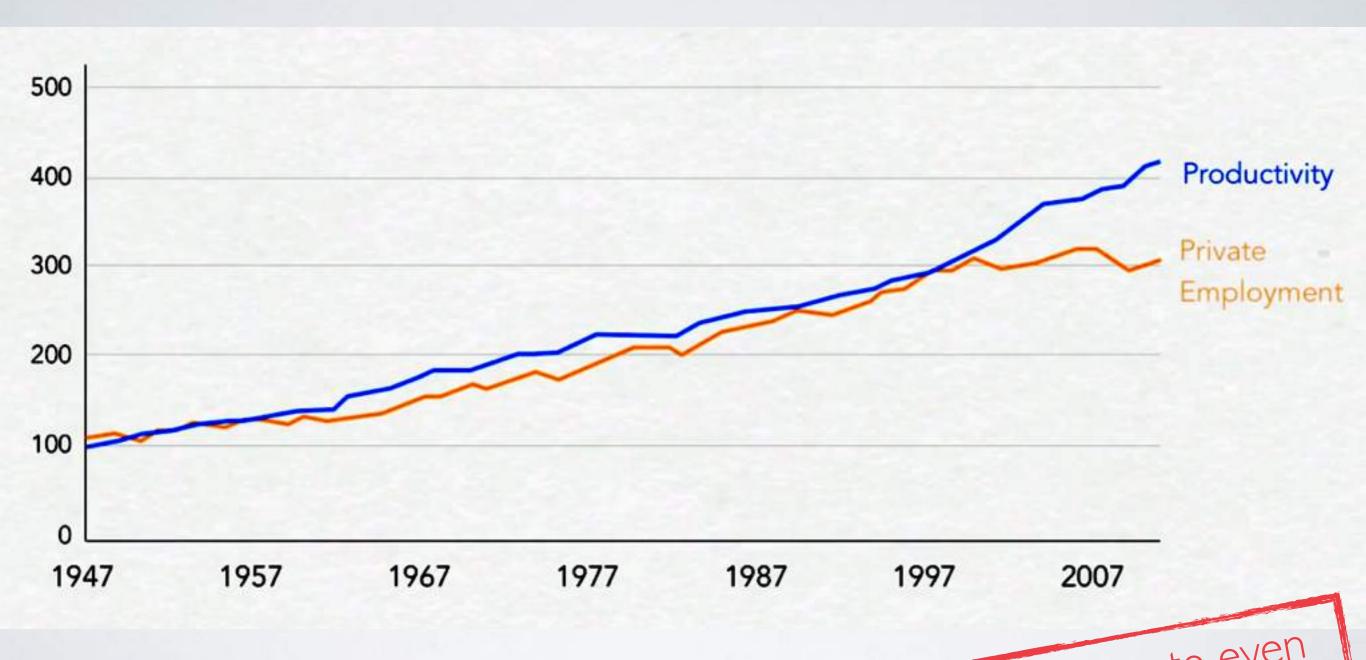
predict labor market in 10 years from now

produce globally competitive labour





Labour productivity & employment (1947 - 2010)



shall we create even more employees?



Huge gap between poor and wealthy

FYI: watch gap in EU in 2015















YOU COMPETE

(and you will 100% loose)

YOU CREATE

(and you will have chances)







Entrepreneurship commercially viable creativity + innovation





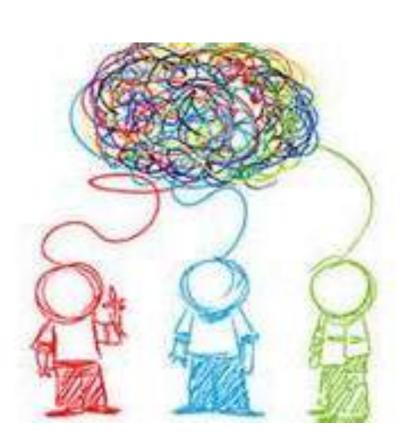








we can't teach things we don't know



teach basics teach to learn

develop culture creative environment

Magna Charta Universitatum

Signed by c. 400 Universities in Bologna, 1988

MAGNA CHARTA UNIVERSITATUM

Preamble

The undersigned Rectors of European Universities, gathered in Bologna for the ninth centenary of the oldest University in Europe, four years before the definitive abolition of boundaries between the countries of the European Community; looking forward to far-reaching co-operation between all European nations and believing that people and States should become more than ever aware of the part that universities will be called upon to play in a changing and increasingly international society,

Consider

- that at the approaching end of this millennium the future of mankind depends largely on cultural, scientific and technical development; and that this is built up in centres of culture, knowledge and research as represented by true universities;
- that the universities' task of spreading knowledge among the younger generations implies that, in today's world, they must also serve society as a whole; and that the cultural, social and economic future of society requires, in particular, a considerable investment in continuing education;
- 3. that universities must give future generations education and training that will teach them, and

education

I want

for my son

not for diploma not for knowledge for the mindset

20% fundamentals 80% real fight

support for creativity motivate to learn

PS. Mobility is
No I threat (and opportunity)
in the next IO years



Ruslan Yegembayev Founder & CEO mobiliuz.com

we make cars smart and connected

