

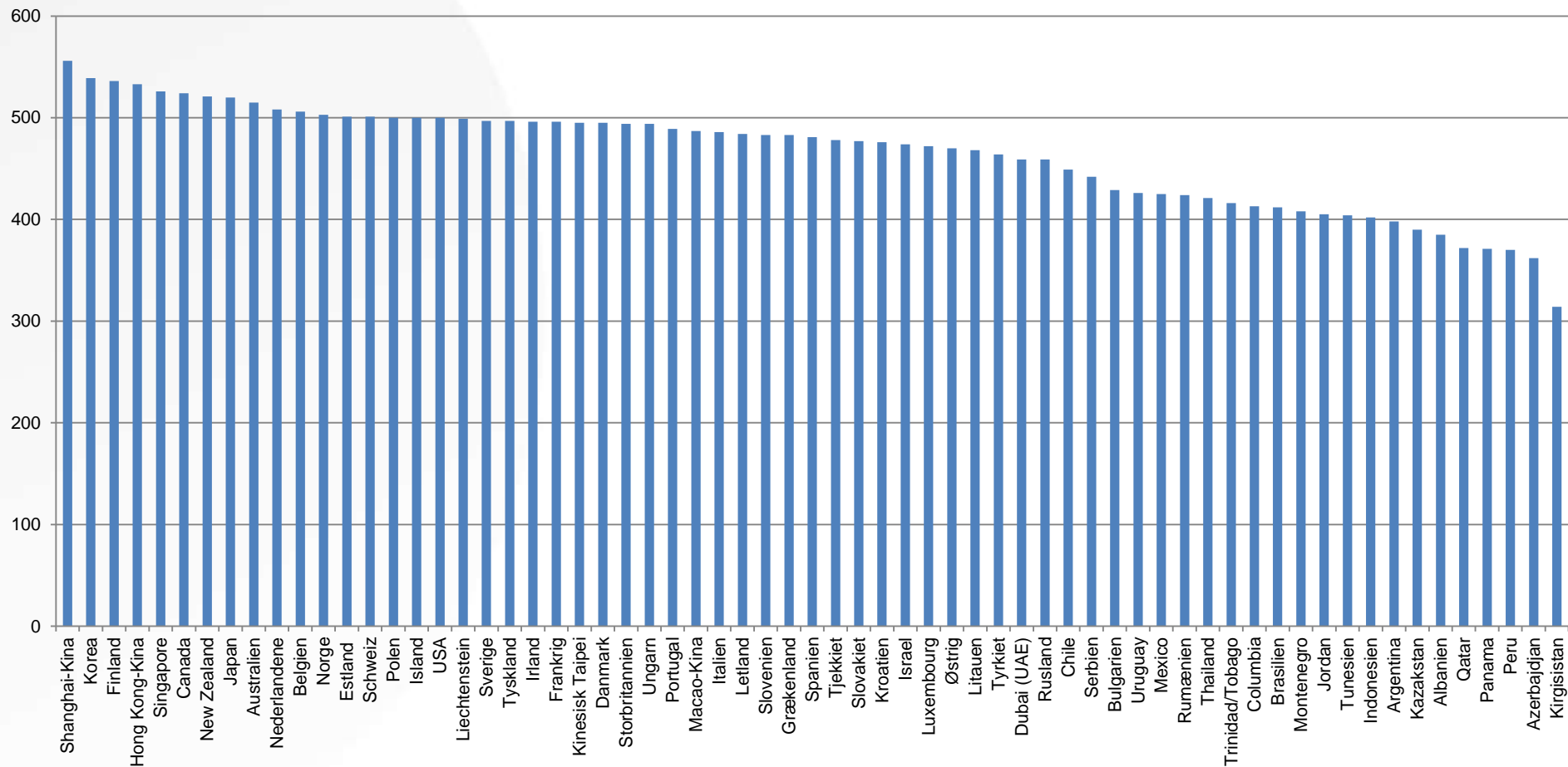
Strengths and weaknesses in the Danish school culture

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Who is best prepared for upper secondary education – and life?



The five best – and DNK

Reading

1. Shanghai	556
2. Korea	539
3. Finland	536
4. Hong Kong	533
5. Singapore	526
24. Denmark	495

Mathematics

1. Shanghai	600
2. Singapore	562
3. Hong Kong	555
4. Korea	546
5. Kinesisk Taipei	543
19. Denmark	503

The five best - and DNK

Science

1. Shanghai	575
2. Finland	554
3. Hong Kong	549
4. Singapore	542
5. Japan	539
26. Denmark	499

Why should we care in Denmark?

We are doing so well

- At least until now

President Obama 7. dec. 2010

- "Launching of Sputnik in 1957 promoted investment in math and science. Fifty years later our generation's Sputnik moment is back"
- "Nations with the most educated workers will prevail"
- "As it stands now America is in danger of falling back".

Secretary of education, Arne Duncan

- "We have to see this as a wakeup call"
- "I know skeptics will want to argue with the results, but we consider them to be accurate and reliable, and we have to see them as a challenge to get better"
- "We can quibble, or we can face the brutal truth that we're being out-educated".

Let us take a look at history

Leading culture from 8000 BC till 656 BC



2800 BC till 640 BC



800 BC till 27 BC



266 BC till 476 AC



1583 till 1948



1917 till 2016

USA som afgørende supermagt



1952 till 2012

Europa som samlet magtfaktor



2016

China and South East Asia



Socrates against Confucius

We should be scared



- The welfare model has taken the fight for survival away
- Our mental model was successful in the 20th century, but we have to rethink our system in the Western world:
- We have to run our businesses in a new way.
- We have to have another kind of unions
- We have to change the school system.

Danish characteristics

We have

- Grundtvig
- Child centred pedagogy and individualism
- Happy students
- A comprehensive school
- Little authority and readiness for discussion
- Students with good collaborative skills.

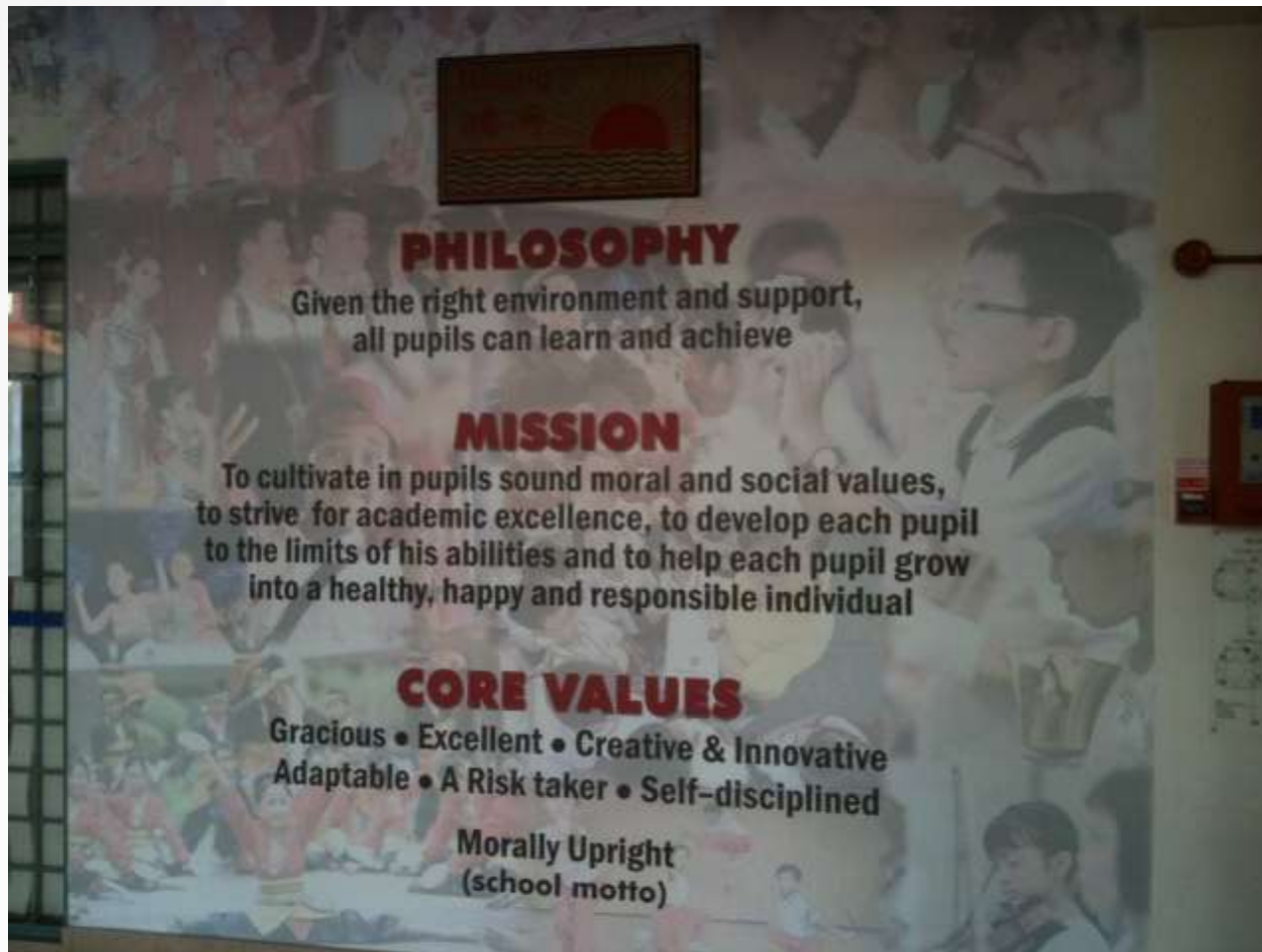
Grundtvig

- Facts alone are not knowledge
- The spoken word is the most important
- School is for life
- The aim is 'bildung'.

Bildung

- To allow individuals to develop a personal authority that enabled them to reflect on their own relationship to their fellow men, nature and society
- Democracy
- Citizenship
- -----
- It is a central part of the purpose in the Act of the Folkeskole
- We speak about it, but is not a part of the curriculum.

In Singapore this is stated clearly:



Child centered pedagogy

- Differentiated instruction
- Individual student plans
- Responsibility for own learning
- Group work
- Peer tutoring
- Thematic weeks
- -----
- We have 5.5 percent of all students excluded
- We have 23 percent of students with 'problems' in ordinary classes
- We have disciplinary problems with 10 percent of all students.

Chinese students listen to the teacher



Peer tutoring



Chinese students work in groups



Orderliness



We do things together
- individualism has low priority



Teachers are in school
from 7.30 till 17.00



Happy students in DNK?

- Because of low achievement expectations?
- Because of high segregation?
- Because of 17 percent low performers?
- Because of 20 percent not having upper secondary education?

A comprehensive school

- Ten years of mandatory general education for free
- -----
- But almost 10 percent do not take the school leaving test
- Many schools are setting up lower secondary lines to improve motivation and participation.

Low level of authority

- Students use teachers' first name
- Students are encouraged to discuss and argue
- A high degree of disruptive behavior
- A lot of time is wasted.

Collaborative skills and creativity

- Lessons in art, sewing and cooking
- ‘Lesson of the class’
- Group work and thematic weeks
- -----
- Again we do it, but with a low degree of systematic approach.

We are not alone in that field



Art lesson



Singapore



Both for teachers and students



Creativity and 'bildung'



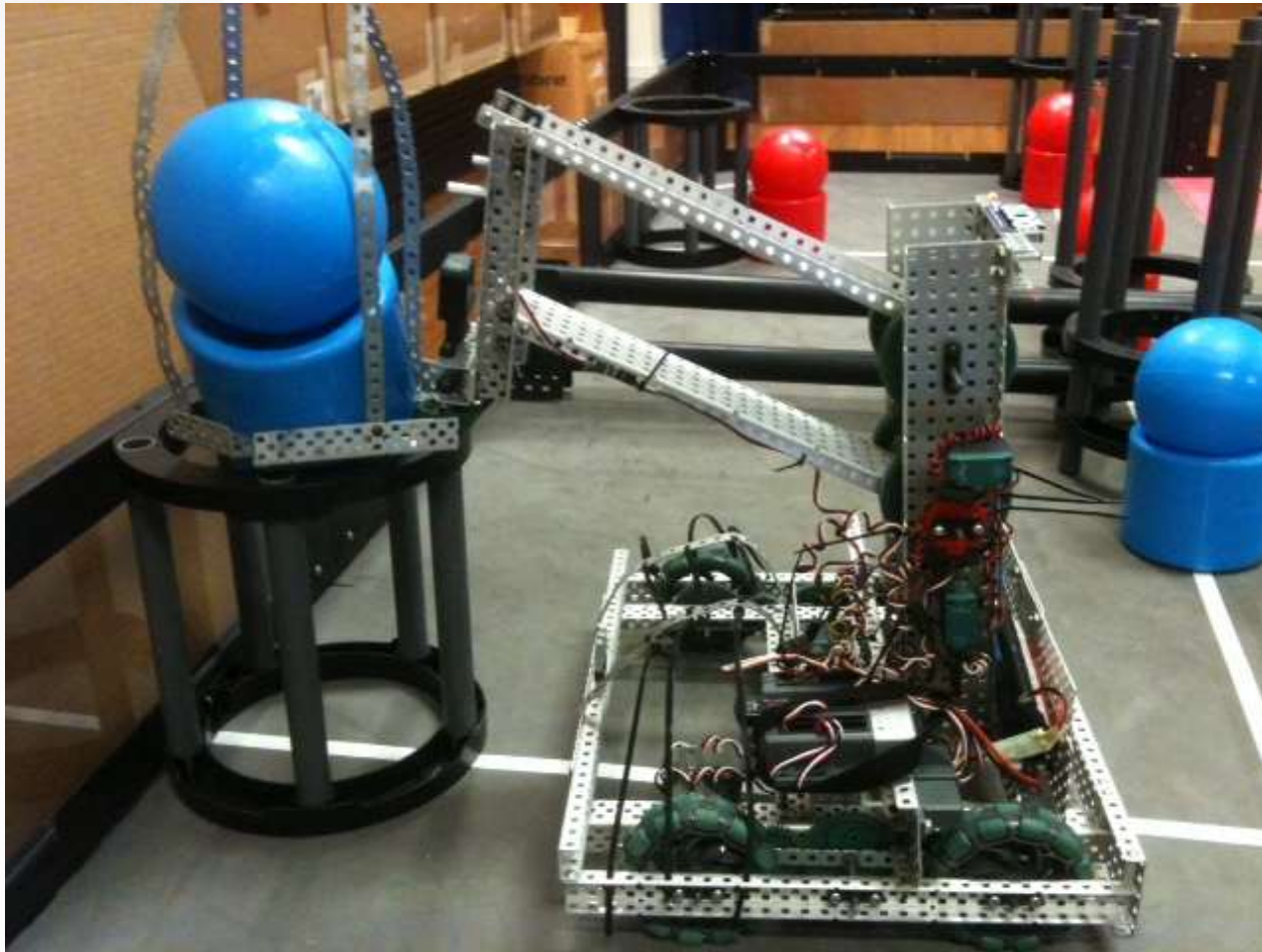
Collaboration



Innovation



Innovation and entrepreneurship



Thanks for listening
DNK has a lot to learn