Life long learning / Innovation

Ace Forum, Action Tank 2: Global Engineering
Elco van Noort, TU Delft
Central International Office, Education & Student Affairs 9-5-2014
Innovators in Education
Innovators in Education

Dr. Sugata Mitra  
Hole in the wall

Salman Kahn  
Kahn Academy

Anka Mulder  
TU Delft
Innovators in Education

Dr. Sugata Mitra
Hole in the wall
Build a School in the Cloud, where children can explore and learn from one another

Salman Kahn
Kahn Academy
My nieces preferred their digital cousin above their real one
10 mln students month

Anka Mulder
TU Delft
2000 – 2030
+300 mln HE students: Open every day a 25,000 students university or ...
Innovation is seldom a straight line

“If I had asked people what they wanted, they would have said faster horses.” (Henry Ford)
TUDelft Online education

Massive Open Online Courses (MOOCs)
- Learning Activities & Course Materials
- Free
- Enrolled students only, massive numbers
- Bachelors level
- Certificate of Completion

OpenCourseWare (OCW)
- Course Materials
- Free
- Big Exposure, Worldwide audience
- Both Bachelor and Master level
- No interaction with faculty
- No accredited certificate

On Campus Education
- Direct access to education
- Research facilities
- World Class Library
- Student social tissue
- Student projects

Online Distance Education
- Learning Activities & Course Materials
- Paid enrollment
- Enrolled students only, limited numbers
- Master level
- Accredited Course Certificate
- Full Master Degree
Why MOOC?

• There can be many reasons:

• Share knowledge & education
• Innovation in education (e.g. blended courses)
• Research
• Communication/Marketing
• Attract international talent
• Lifelong learning
How to MOOC it?
Delft MOOCS

- **Sep '13**
  - Water Treatment
  - Solar Energy

- **Mar/Apr '14**
  - Next Generation Infrastructures
  - Aeronautical Engineering
  - Credit Risk Management

- **Sep-Nov '14**
  - Bio-based products
  - Delft Design Approach
  - Responsible Innovation
  - Functional Programming
  - Problem Solving
MOOC
- Open Access
  - Bachelor level
  - Single course
  - No EC
  - Certificate of Completion

Course
- Pay per course
  - Bachelor and master
  - Single Course
  - <10 EC
  - Course Certificate

Series
- Pay per course
  - Bachelor and Master
  - Couple of courses
  - 10-15 EC
  - Formal Certificate

Module
- Pay per course
  - Bachelor & Master
  - Couple of courses/series
  - 30 EC
  - Formal Diploma

Program
- Pay per course
  - Master
  - Couple of courses/series/modules
  - > 60 EC
  - Formal Master

BUSINESS MODEL VARIES

VALUE

PRICE

OTHER ROI

BLENDED
Thank you for your attention

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