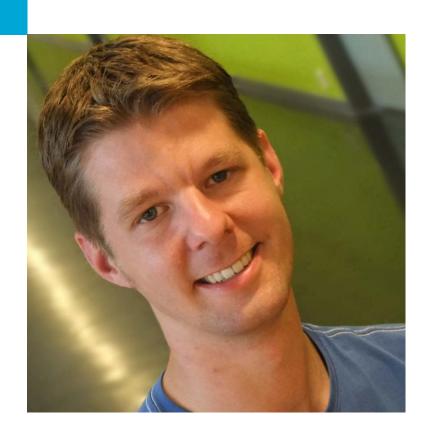






Welcome!



Martijn Ouwehand MSC



Open Education team

OpenCourseWare
Online Distance Education





Share knowledge



- About openness
- About reuse in formal education
- About future prospects

Image CC BY SA

























Retain Reuse Revise Remix Redistribute



















TUDelft

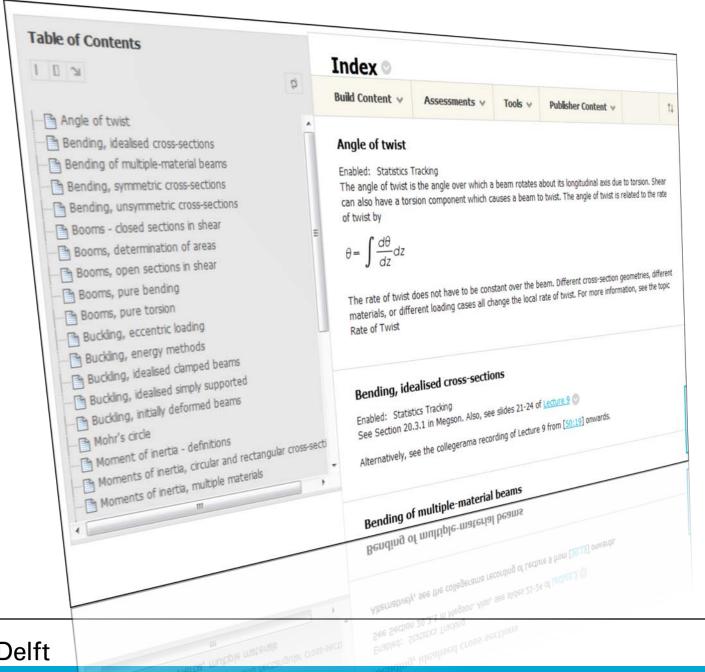






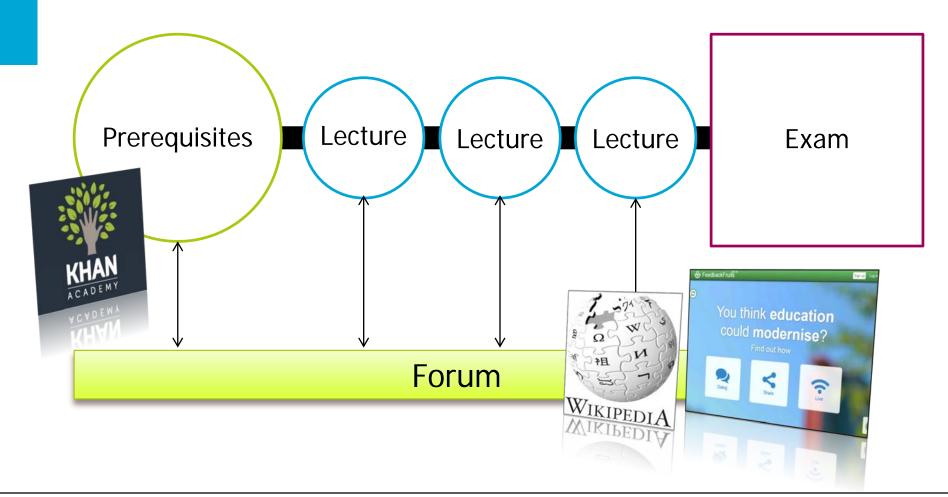












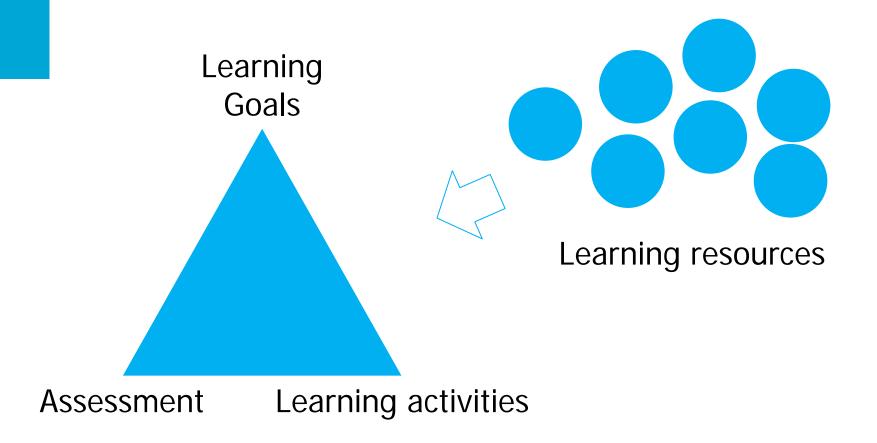






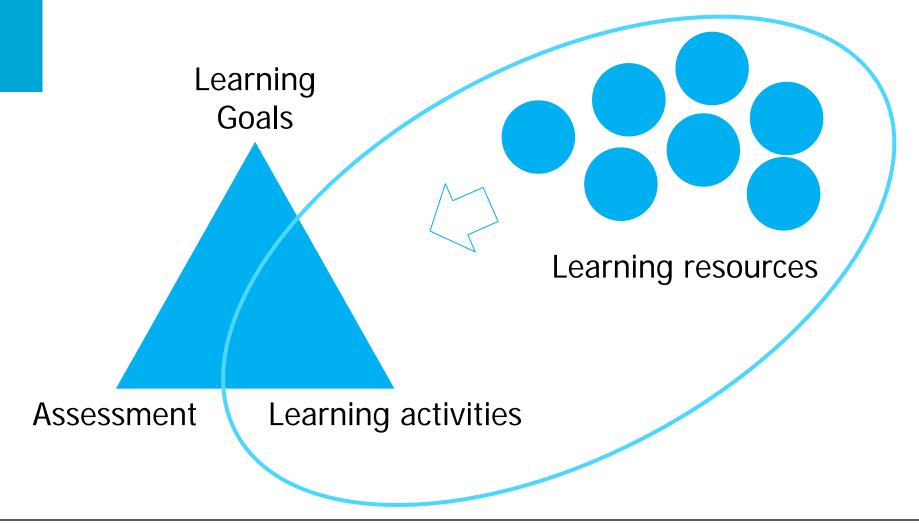
















Flip/blend/reverse/...



Reversed Teaching

Prof. Mr. Dr. Ir. Sicco Santema TU Delft



Youtube Fridays

Prof. Matthew W. Liberatore, Prof. Charles Vestal Colorado School of Mines



Peer Instruction

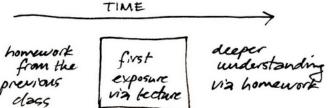
Prof. Eric Mazur Harvard



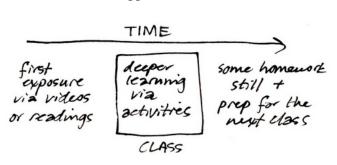
Flipped Classroom Field Guide



Traditional Classroom:



Flipped Classroom:





Maya Adam flipped report

Doug Fisher's flipped report

Class: Machine Learning, Databases

Size: 10 students, 30 students

Strategies: Student-generated content,

Small group problem solving, Applications

University: Stanford Class: Child health and nutrition Strategies: Applications, Extensions, Experiential learning Size: 85 students

University: Vanderbilt



Dan Boneh's flipped report

University: Stanford Class: Cryptography Strategies: Sequence of questions,

Size: 150 students



Scott Klemmer flipped report

Name: Scott Klemmer University: Stanford Class: Human-Computer Interaction Strategies: Small group problem solving, Experiential learning Size: 250 students

Mohamed Noor flipped report



Dan McFarland flipped report

University: Stanford Class: Organizational Theory Strategies: Experiential learning Applications Size: 44 students



Scott Rixner/Joe Warren flipped report

University: Stanford Class: Introduction to Python Strategies: Extensions, Small group problem solving, Peer feedback, Applications
Size: 70 students



Adrienne Williams flipped report

University: UCI Class: Introductory Biology Strategies: Applications, Extensions, Just-in-time teaching, Small group problem solving Size: 75 students



Steve Everett flipped report



Kristin Sainani flipped report

University: Stanford Class: Writing in the Sciences Strategies: Collaborative Learning Activities Peer feedback, Discussion activities Size: 12 students



Philip Zelikow flipped report

University: UVA Class: Global History Strategies: Applications, Discussion activities Size: 76 students



Larry Diamond flipped report

Flipped Classroom Field Guide



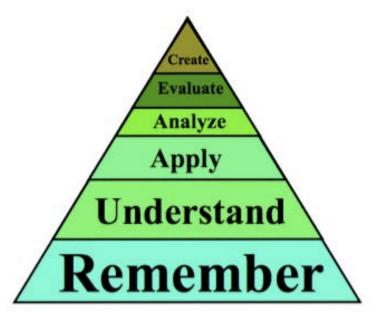


"Learning should be an active process. Too often, students come to school to watch their teachers work." Will Daggett Photo by Ole Begemann on Flickr Image retrieved CC BY NC SA





CC BY Dr. Beatriz de los Arcos The Open University



Photo's: CC BY-NC-SA 2.0 by Darren Kuropatwa







"What if we treat content as a byproduct of learning" and focus instead on the experience - @Gsiemens #opened13

@Audrey Watters, 06-1-13 17:51

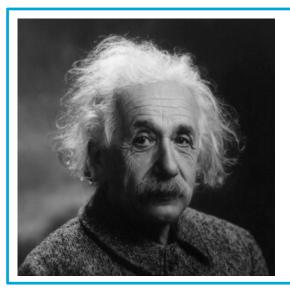






"What if we treat content as a byproduct of learning" and focus instead on the experience @Gsiemens #opened13

@Audrey Watters, 06-1-13 17:51



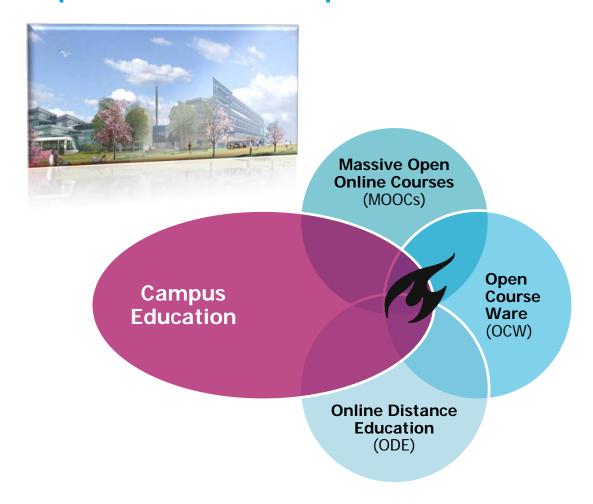
"Education is not the learning of facts, but the training of the mind to think"

Albert Einstein

Image CC BY NC Thomas Thomas

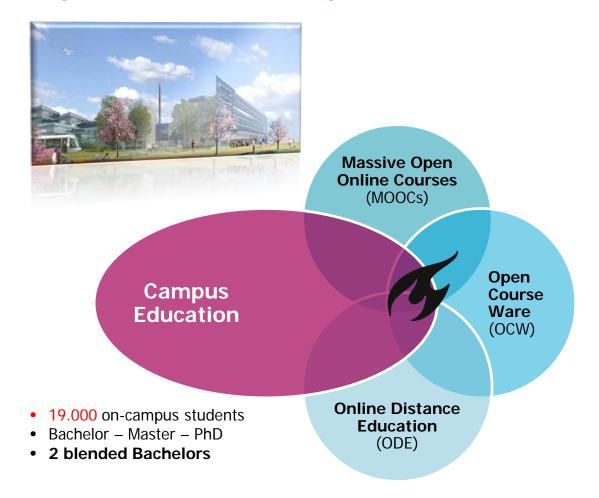






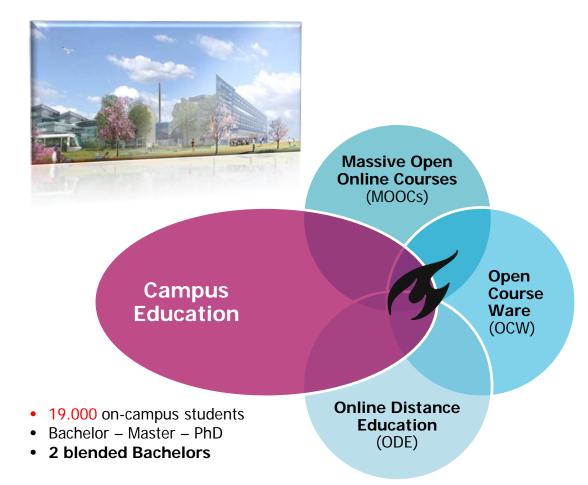








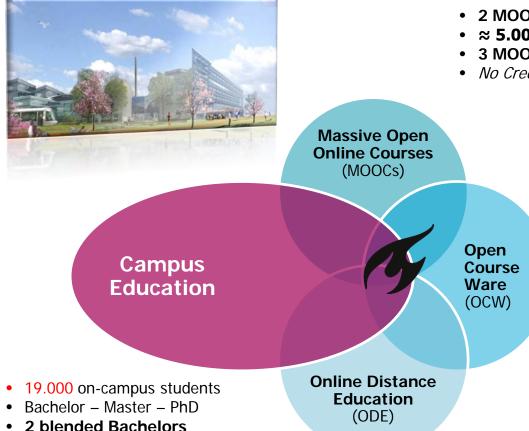




- More than 120 courses online & 10.000 weblectures recorded
- Unique visitors > 800 /day
- No interaction with faculty
- · No accredited certificate







- 2 MOOCs (> 80.000 enrollments)
- \approx 5.000 Certificates of Completion
- · 3 MOOCs starting
- No Credits

- More than 120 courses online & 10.000 weblectures recorded
- Unique visitors > 800 /day
- No interaction with faculty
- No accredited certificate







- 2 MOOCs (> 80.000 enrollments)
- \approx 5.000 Certificates of Completion
- 3 MOOCs starting
- No Credits

Massive Open Online Courses (MOOCs)

Campus Education

- Open Course Ware (OCW)
- More than 120 courses online & 10.000 weblectures recorded
- Unique visitors > 800 /day
- No interaction with faculty
- · No accredited certificate

- 19.000 on-campus students
- Bachelor Master PhD
- 2 blended Bachelors

Online Distance Education (ODE)

- 1 full online master (25 courses)
- 2 modules, 1 minor, 1 master (6 courses)
- 50 students (30 on-campus)
- Full Master Degree / Accredited Course Certificate





MOOC

- Open Access
- Bachelor level
- Single course
- No EC
- Certificate of Completion

Course

- Paypercourse
- Bachelor and master
- Single Course
- <10 EC
- Course Certificate

Serie

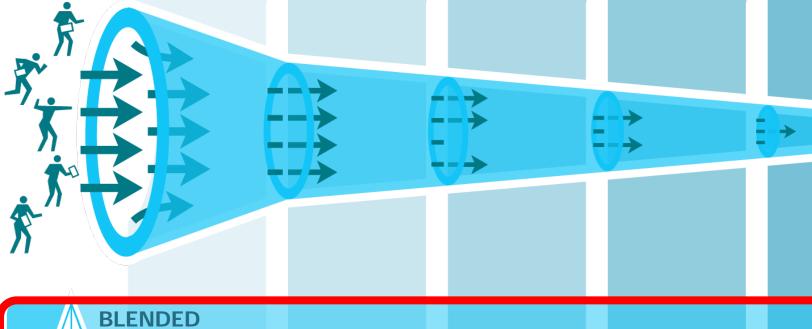
- Pay per course
- Bachelor and Master
- Couple of courses
- 10-15 EC
- Formal Certificate

Module

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

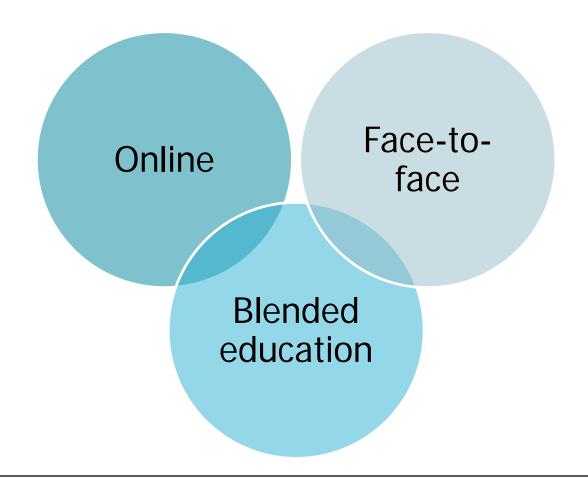
Programme

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



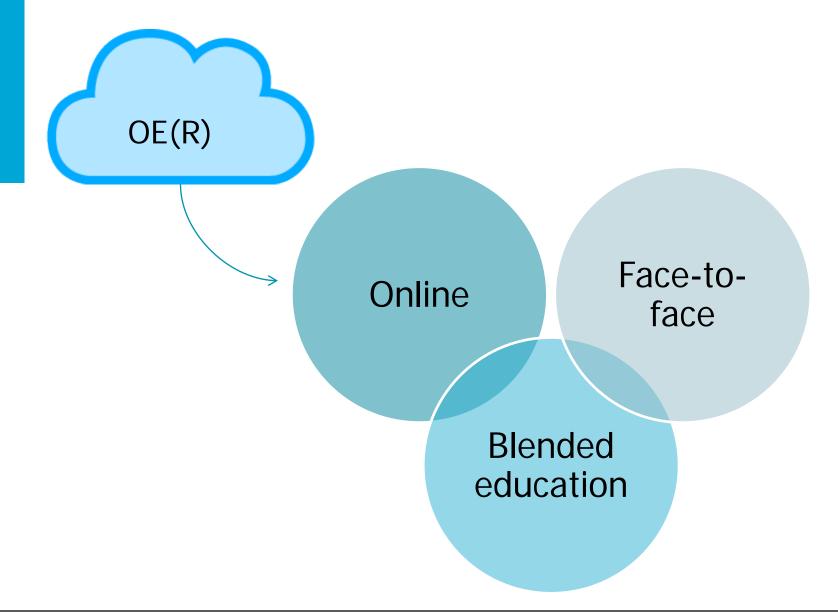














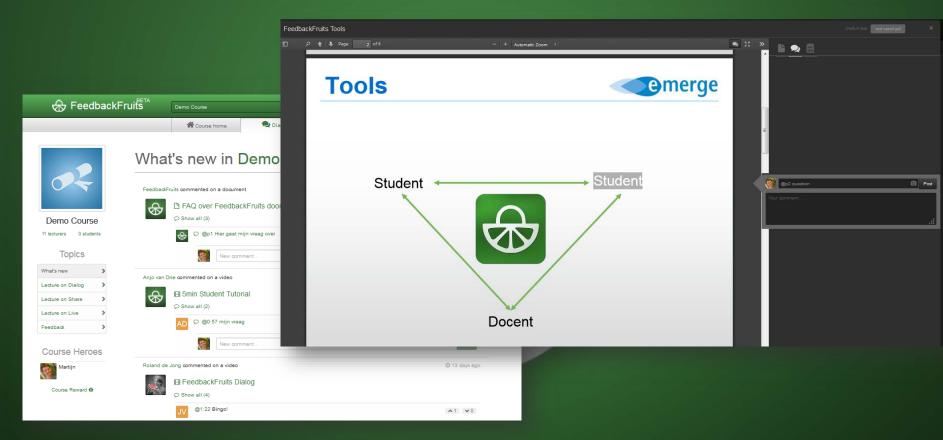




FeedbackFruits







FeedbackFruits





Openness in formal education









CC BY Dr. Beatriz de los Arcos The Open University

What I'm thinking...



OER enable new ways of teaching and learning.

Success in flipped learning is measured in terms of student engagement and motivation.

Teachers' open practices can help student engagement and motivation.







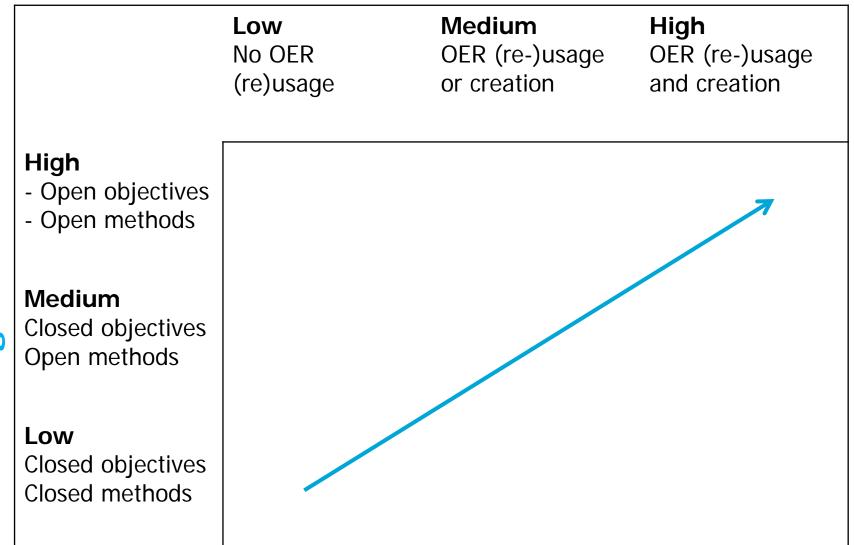
Using OER the same way we used commercial textbooks misses the point. It's like driving an airplane down the road. Yes, the airplane has wheels and is capable of driving down on the road (provided the road is wide enough). But the point of an airplane is to fly at hundreds of miles per hour – not to drive.

David Wiley, October 21, 2013





OER Usage









How

Christine Redecker, Jonatan Castaño Muñoz, Riina Vuorikari, Yves Punie Open Education 2013 scenario Synthesis (in review)



Where When What

Christine Redecker, Jonatan Castaño Muñoz, Riina Vuorikari, Yves Punie Open Education 2013 scenario Synthesis (in review)























TU Delft Challenge

















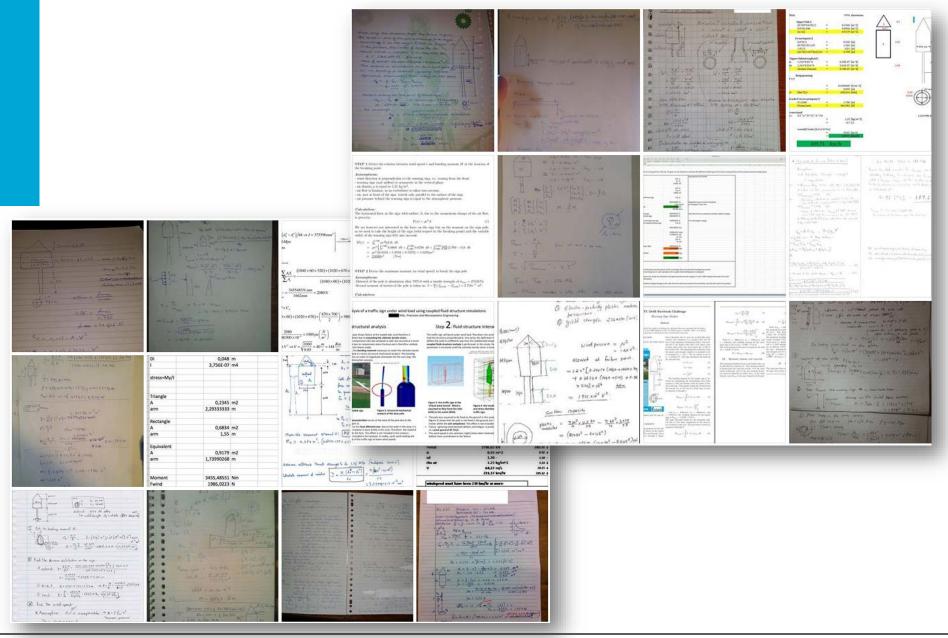
















"I Expect a question about this on my fatigue of structures and materials exam coming Wednesday"













facebook.com/TuDelft.OpenCourseWare



nl.linkedin.com/in/ocwtudelft



twitter.com/TUDelftOCW



slideshare.net/DelftOpenEr



open.tudelft.nl



