Lessons and prospects from the Massive Open Online Course "Managing building adaptation" for real estate education



Course overview – Course team





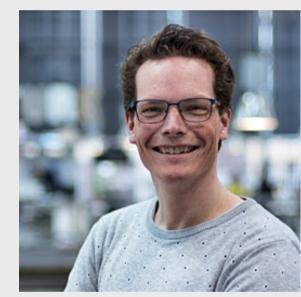




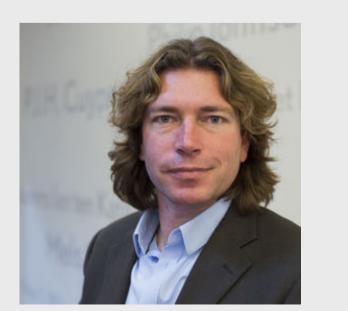










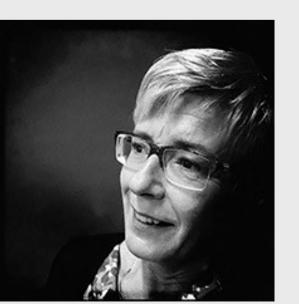










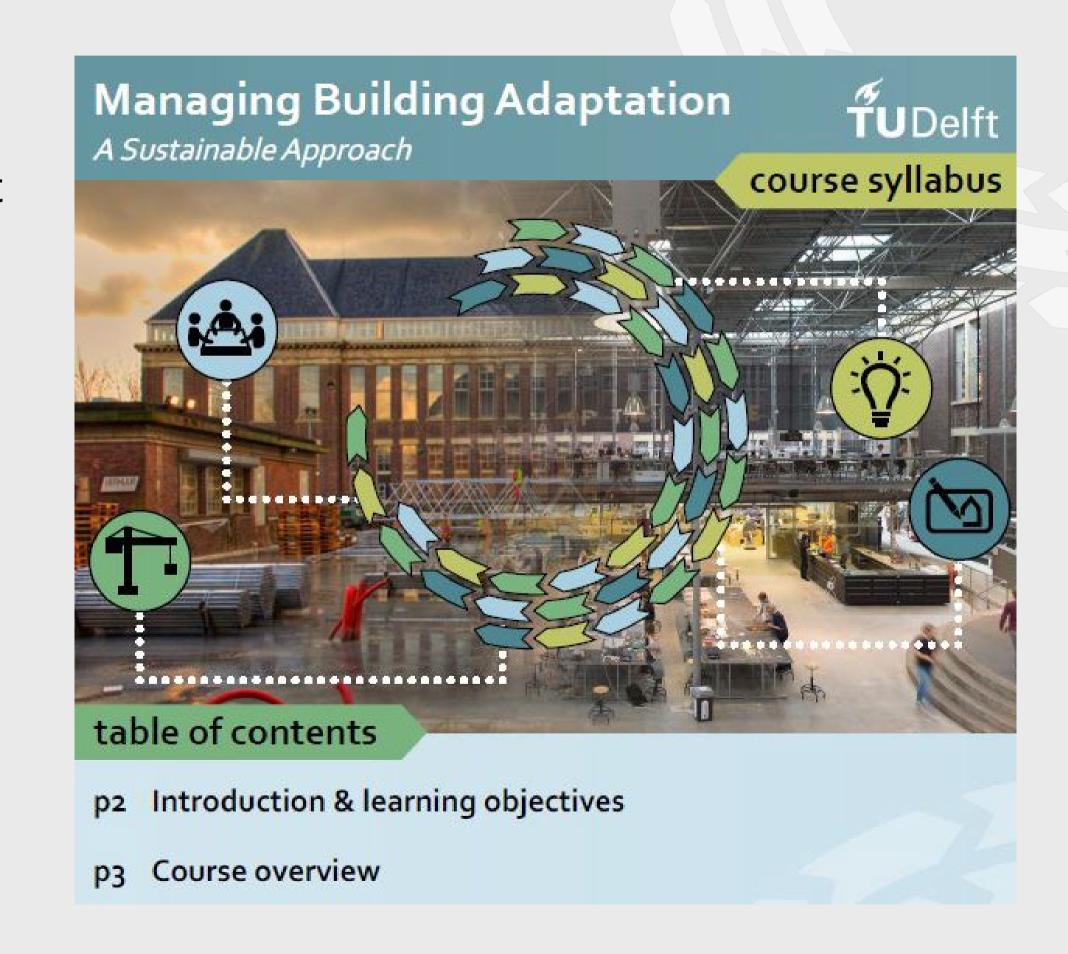




Course overview – Learning objectives

Students learn to:

- *Understand* building adaptation management as a cyclical process;
- *Identify* various sustainability challenges that occur in building adaptations;
- *Distinguish* between multiple actor perspectives and interests related to building adaptation;
- Apply project management tools that assist in making decisions about building adaptation;
- *Translate* design concepts into practical solutions for sustainable building adaptation



Course overview – Course structure

Module-based using Constructive





- Real estate life cycle as a basis
- 7 modules, divided in topics
- 1 new module opened every week
- 1 opening module, introduction module, 4 thematic modules & 1 synthesis module
- 4-6 hours of study per module

Getting started / welcome (Sep 20 – Sep 26) Getting to know the course

- Introduction to managing building adaptation (Sep 27 Oct 3) Sustainability and Managerial Challenges - Managing Building Adaptation Processes -Adaptation Proposal BK City.
- Urban development management (Oct 4 Oct 10) Introduction Schieblock - Urban Development (UD) Policies and Markets - UD Functions and Stakeholders - UD Plan Schieblock
- Adaptive reuse management (Oct 11 Oct 17) Adaptive Reuse (AR) Drivers and Challenges - AR Functional and Financial Feasibility -AR Design and Calculation - AR Risks, Bottlenecks and Opportunities.
- Construction and project management (Oct 18 Oct 24) Project Breakdown Structure - Project Resource Breakdown Structure.
- Sustainable housing management (Oct 25 Oct 31) Introduction to Sustainable Housing Management (SHM) - SHM Principles - SHM Context - SHM Action Plan.
- Recap of managing building adaptation (Nov 1 Nov 7) Personal Lessons - Building Adaptation Proposal.

Course overview – Learning activities

Various forms

- Video lectures
 in which the topic is introduced
- Case videos
 in which the topic is illustrated with real life case, project or interview
- Learning materials
 document and internet links that support
 the videos and assignments
- Assignments in which knowledge on a topic is tested
- Feedback videos
 in which the course team reflect on student work

Managing Building Adaptation A Sustainable Approach



Reader Module 2: Contents

S	ichieblock building 2
	Facts and functions
	Initiative and development context

Course content – Case videos

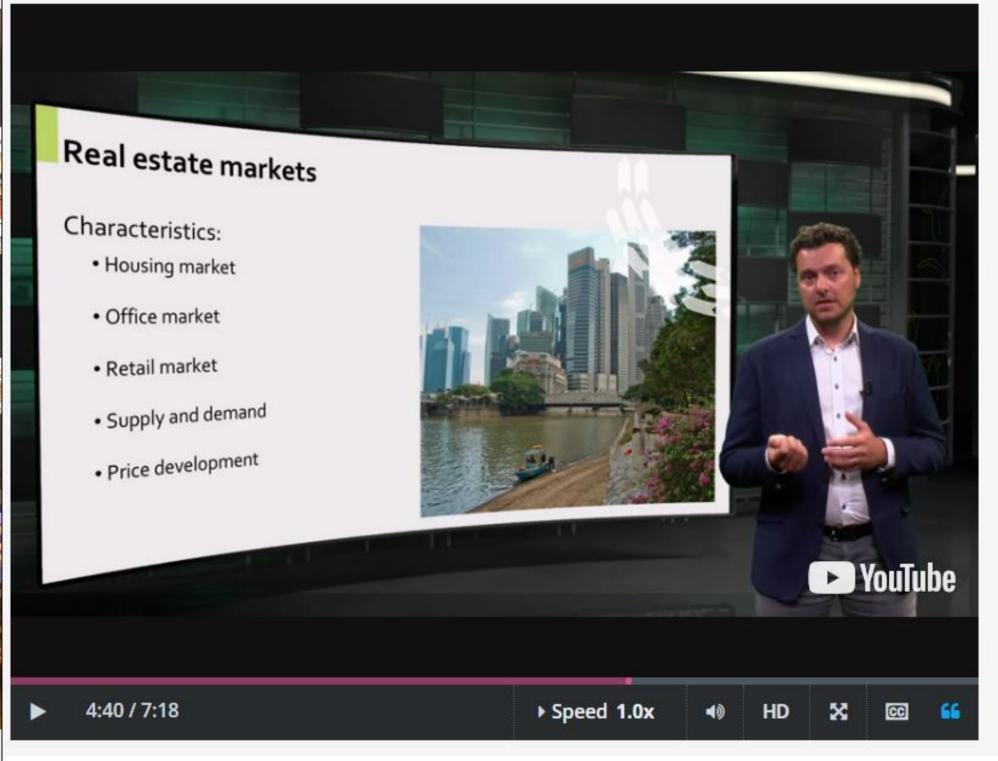




Course content – Video lectures







By doing so, you can determine the possibilities for a building adaptation initiative.

Another important contextual factor that you have to take into account

when adapting a building is real estate markets.

Real estate is property comprised of land and the buildings on it.

Real estate markets can be divided in the housing, office or retail market.

Real estate markets are all about supply and demand, and price development.

When adapting the building you determine which function, like offices or housing

could possibly match supply with demand.

For example, take the office market in Rotterdam.

For years, there has been a trend of increasing office vacancy rates.

In 2016, 19,3% of office buildings were empty.

On the one hand this is caused by the increasing supply of offices,

as new office buildings were constructed in the

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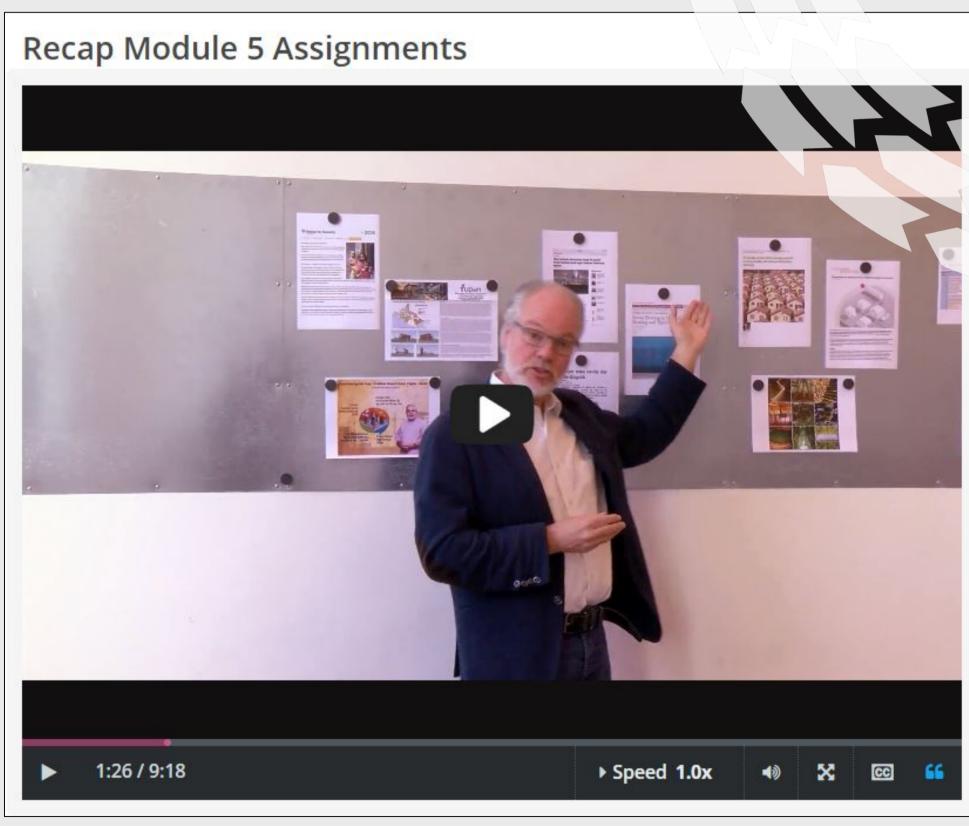
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Course content – Feedback videos

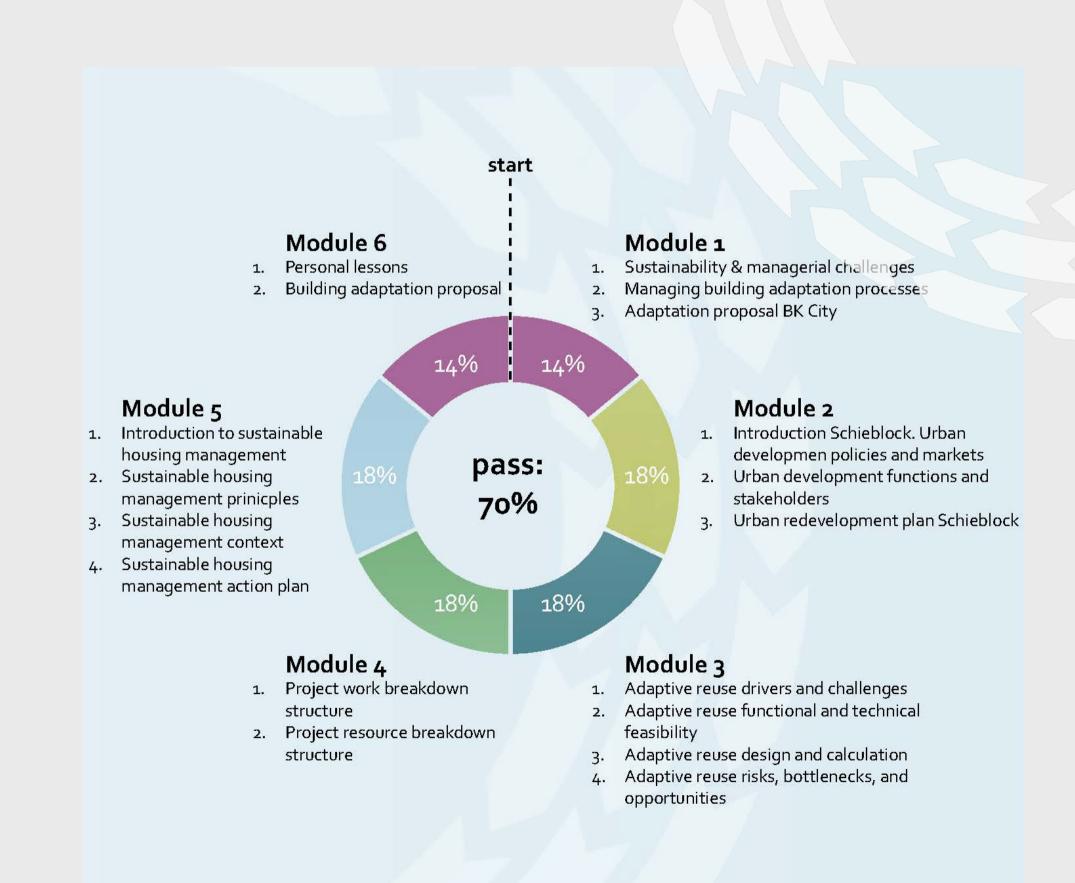




Course overview – Assessment structure

Structure/grading

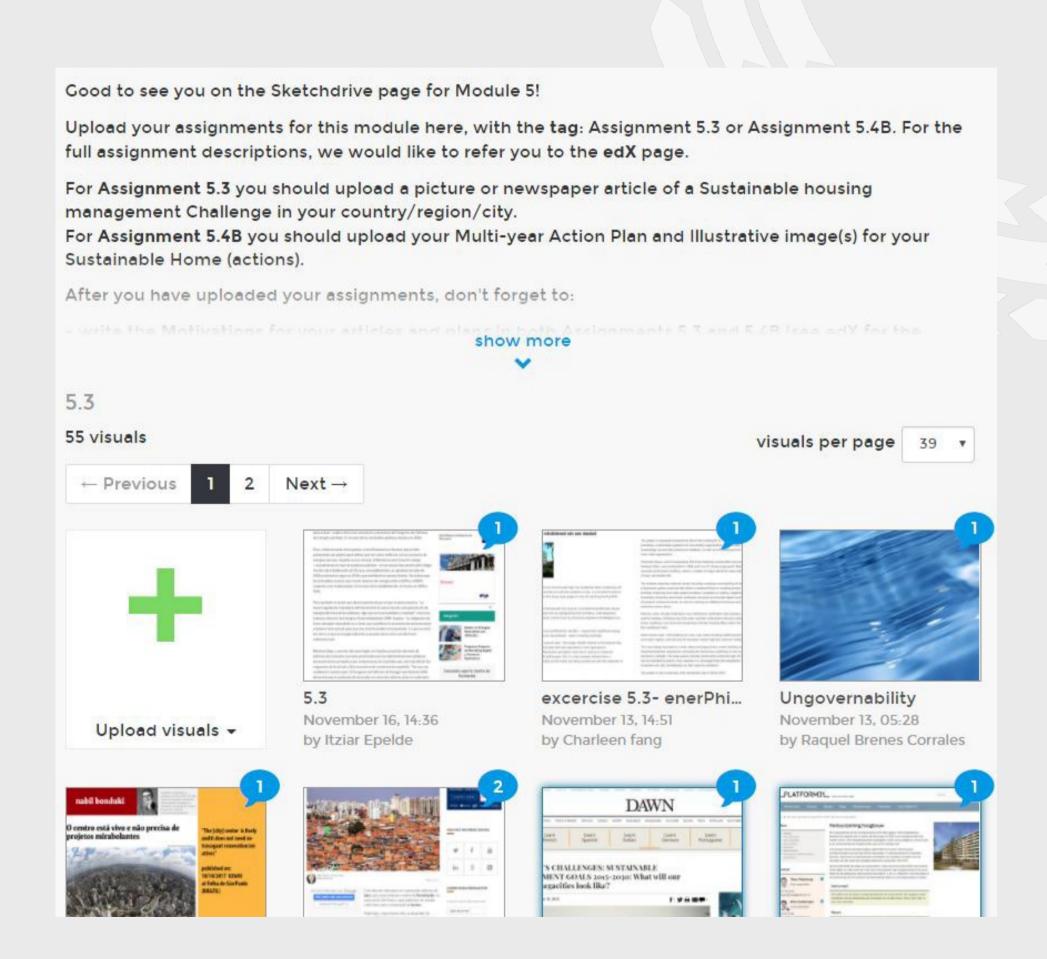
- 6 out of 7 modules graded
- Core (thematic) modules 18% each (2-5)
- Intro and Recap modules 14% each (1&6)
- 70 of 100% of points necessary to pass
- edX grade calculation based on sum of obtained points



Course overview – Assignment & assessment forms

Various assignments

- Poll questions
 compare own ideas with other learners'
- Quiz questions
 check your understanding through multiplechoice questions
- Drag and drop questions
 align and locate certain answers to predefined boxes (true or false questions)
- Sketchdrive assignments
 visuals with short written motivation, giving
 feedback to other learners' visuals
- Self-assessments scoring/grading own work based on a rubric
- Check lists
 list of work completed



Welcome!

- Getting acquainted with the platforms, course structure, each other
- Worldmap & Word cloud





Introduction to MBA

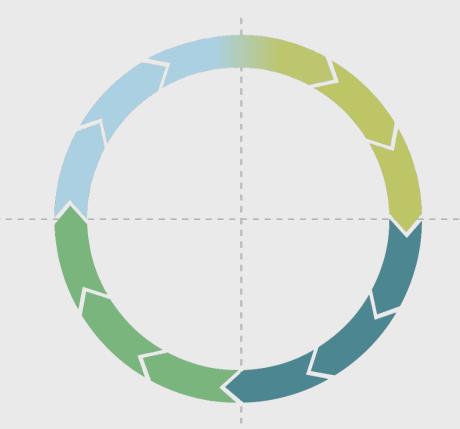
- Managerial & sustainability challenges
 - Newspaper article upload
- Managing building adaptation processes
 - MBA basics intro to process cycle
- Case: BKCity Quick building adaptation proposal
 - On-site video
 - Creative visualisation upload













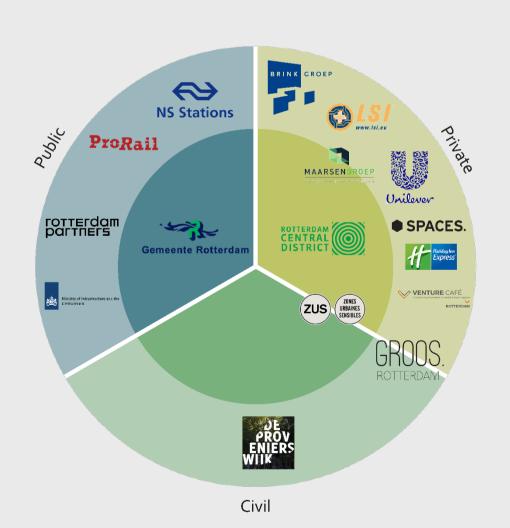


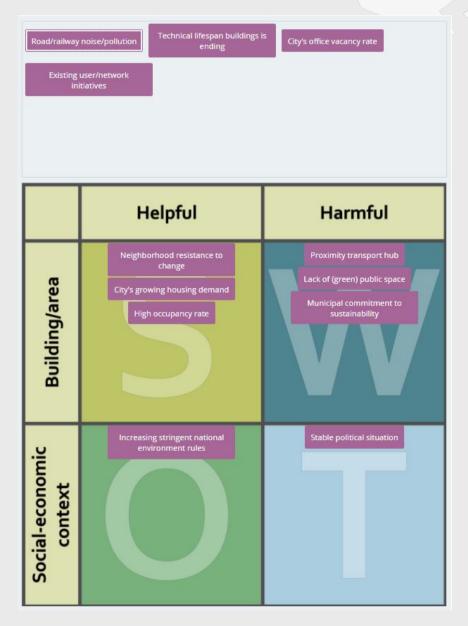


Initiative Phase – Urban Development Management

- Case introduction
 - Schiekadeblock on-site video
- Urban development policies & markets
 - Learn to use policy documents and analyse market demands
- UD functions & stakeholders
 - Drag & drop to learn to perform stakeholder analysis & SWOT

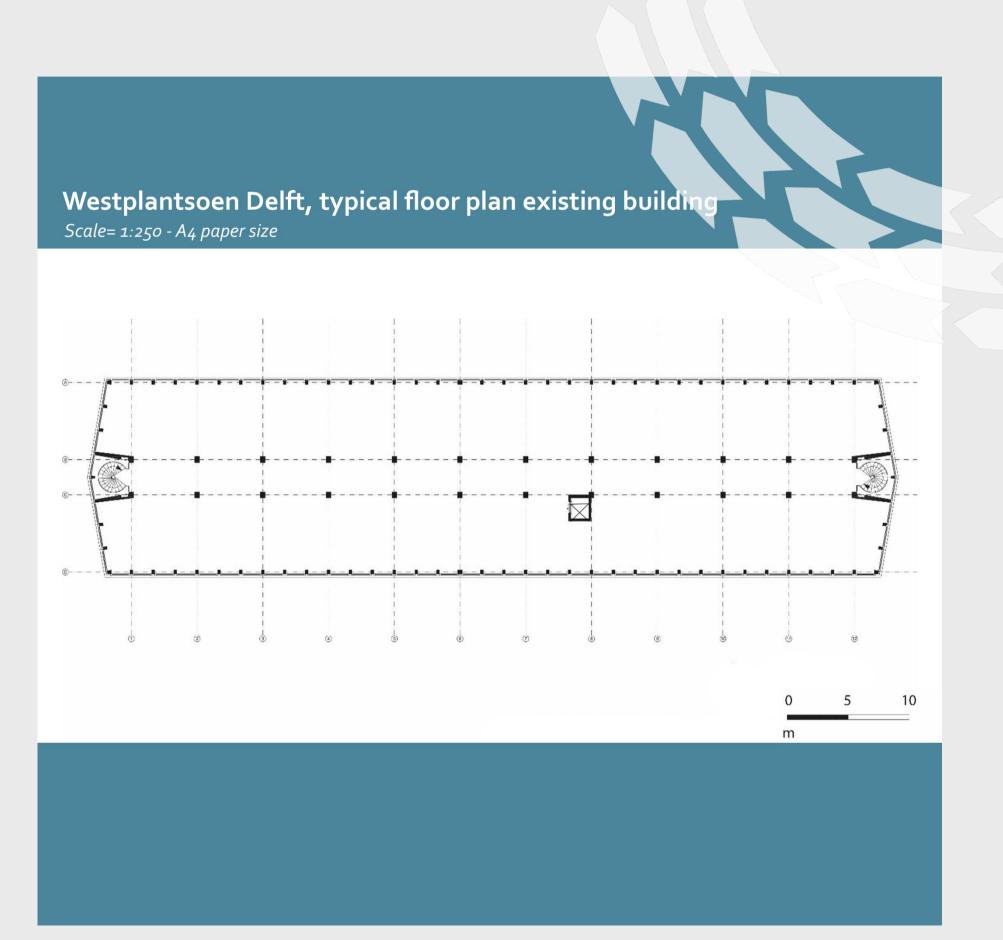
- Urban redevelopment plan
 - Use tools from module to make a redevelopment plan for the Schiekadeblock area





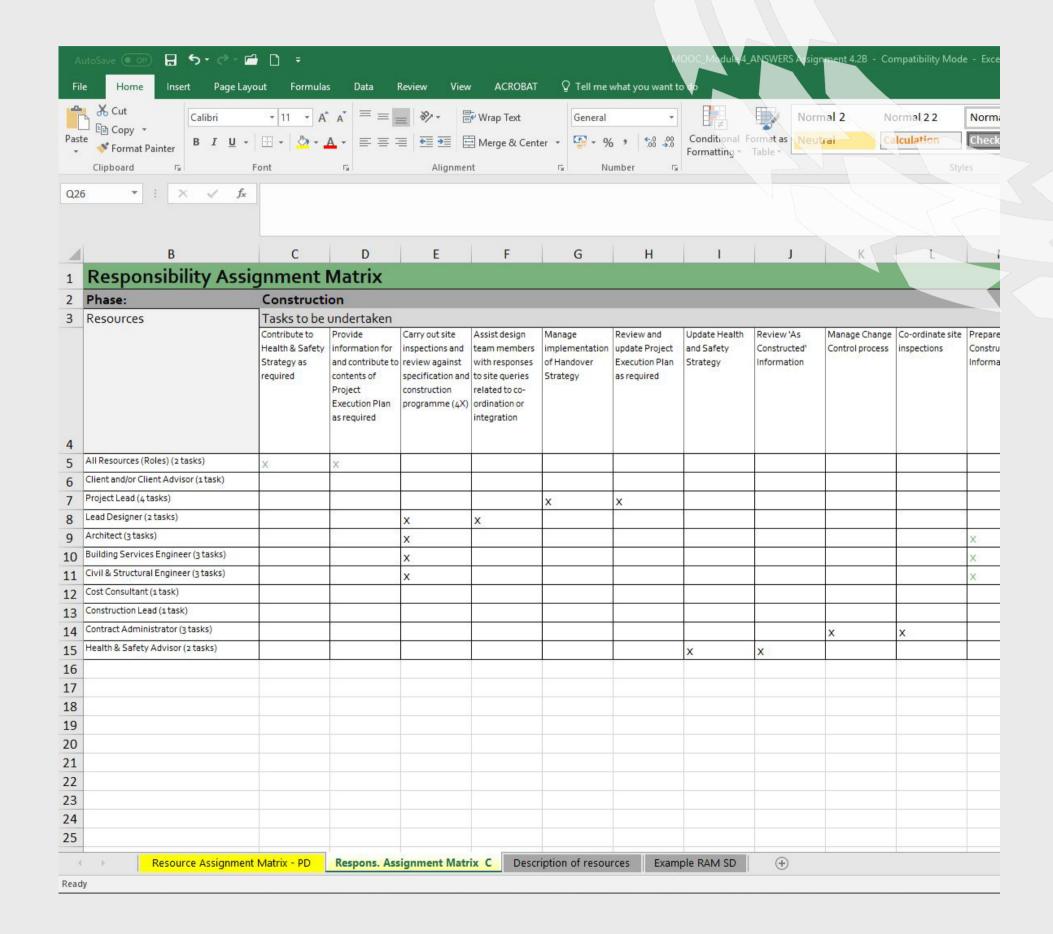
Design & Feasibility Phase – Real Estate Management

- Adaptive Reuse drivers and challenges
- AR functional and technical feasibility
 - Conversion Meter Exercise
- AR design and calculation
 - Creative: Draw floorplans
 - Calculate with Highest & Best use method
- AR Reuse risks and solutions
 - Risk identification and processing in Floorplan



Construction Phase – Project Management

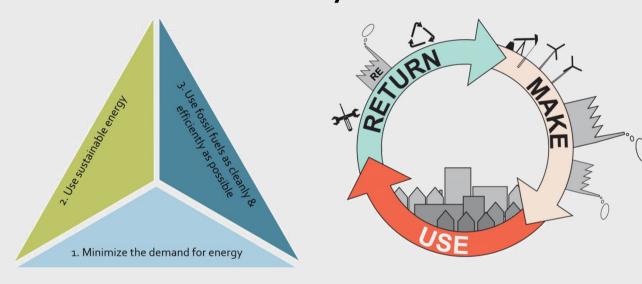
- Project work breakdown structure
 - Learn to assign tasks to project phases
- Project resource breakdown structure
 - Learn to link tasks to different resources/actors through a Responsibility Assignment Matrix



Management & Use Phase – Sustainable Housing Management

- Sustainable Housing Management principles
 - SHM basics supported by interview with housing association Eigen Haard
- SHM ambitions
 - Getting acquainted with SHM ambitions levels, techniques and concepts
- SHM context
 - Learn to relate given principles to own context
 - Newspaper article upload to illustrate this

- SHM action plan
 - Survey about housing situation
 - Use results as framework to create a Multi-Year Action Plan for your own home























Recap of MBA

- Personal lesson drawing
 - Inspiring concepts and ideas from peers
 - Relate to context in own country. What tools could be transplanted or be used as inspiration?
- Personal building adaptation proposal
 - Choose a few of the presented tools from the MOOC to make your own building adaptation proposal.

		Likelihood of Transfer		
		Transfer within one	Transfer between	Transfer between
		country	countries with a similar	countries with a
Level of lesson-drawing	Definitions		system	different system
Inspiration	Collecting & evaluating data & information on innovative experiences & practices	LESS LIKELY	LIKELY	VERY LIKELY
Learning	Adopting the information collected & evaluated in the inspiration phase, including retrieving underlying ideas & recognizing obstacles & differences	LIKELY	VERYLIKELY	LIKELY
Transplanting	Looking at specific conditions under which the transfer of policy, instruments or other elements to another context is possible	VERYLIKELY	LIKELY	LESS LIKELY







Course content – Example student work module 1.

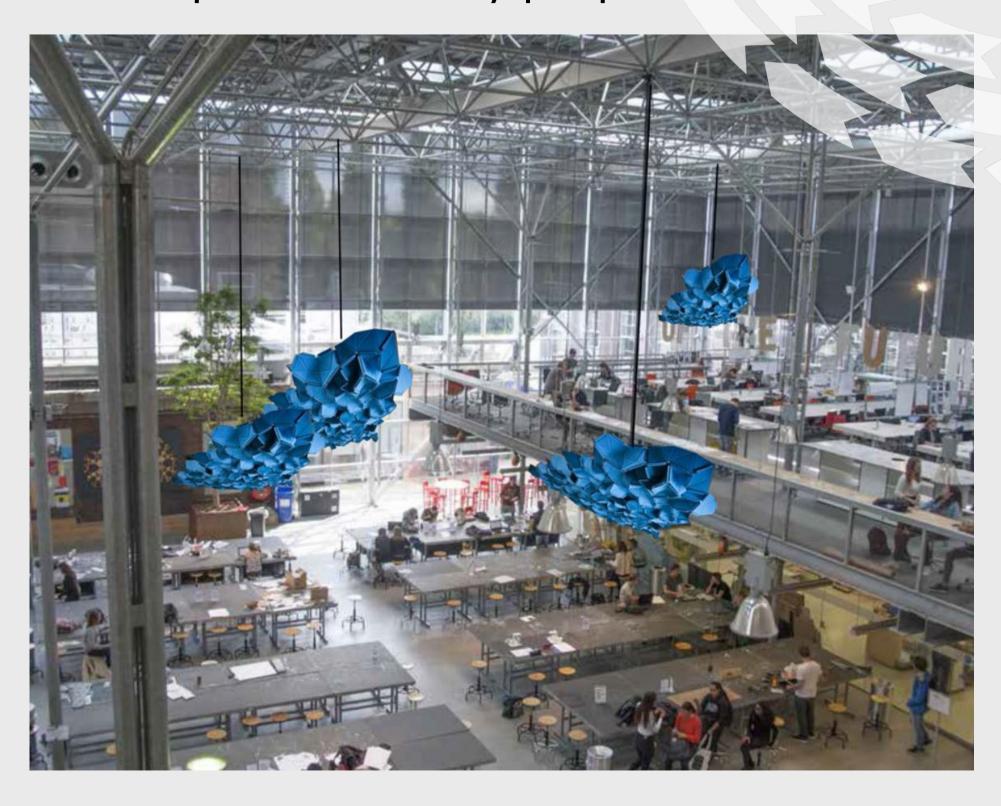
Module 1 – Jip Colenbrander / BK City



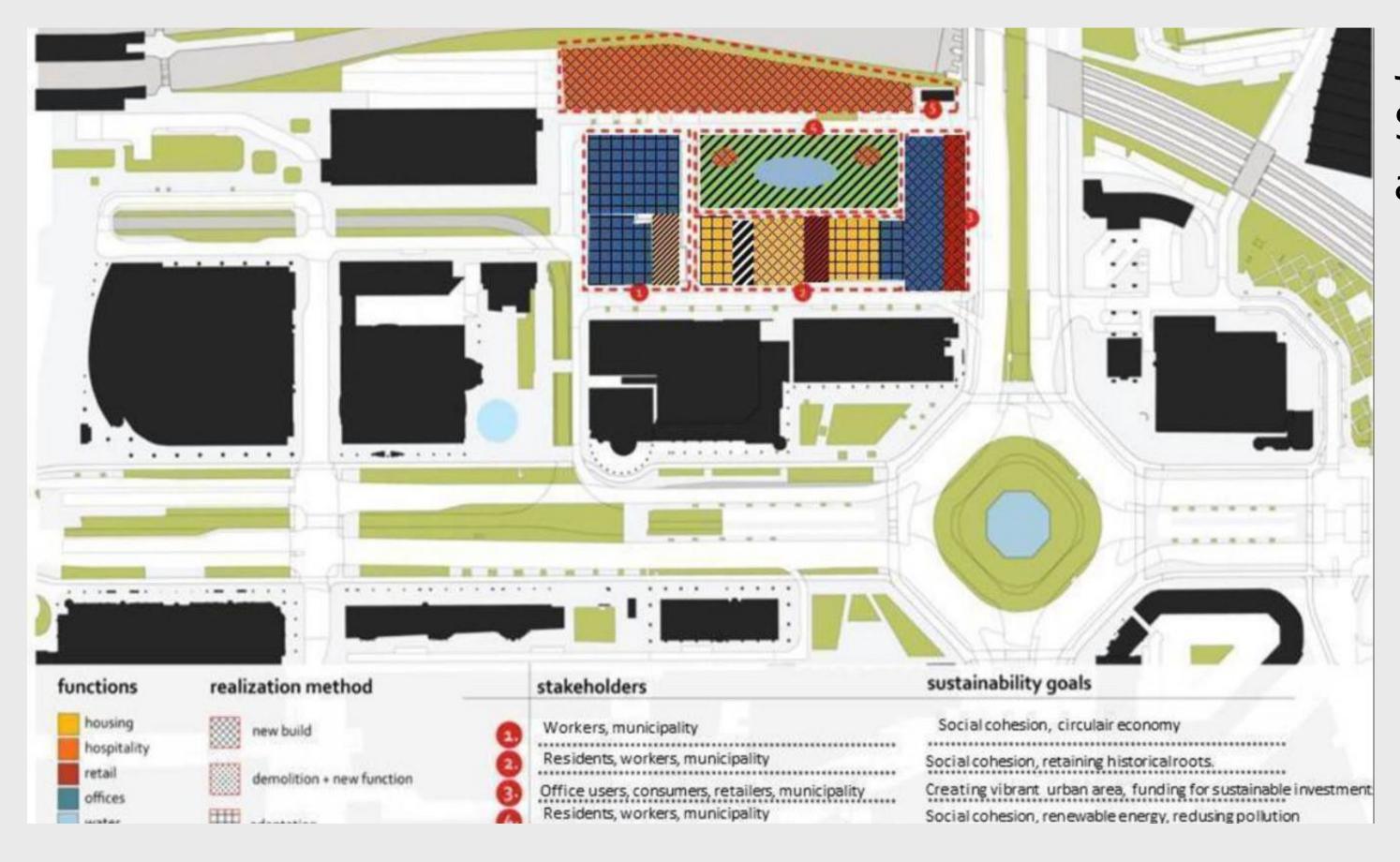
GENERATE ENERGY IN THE BUSY HALLWAYS USING THE PIEZO EFFECT



Itziar Epelde / BK City proposal



Course content – Example student work module 2.

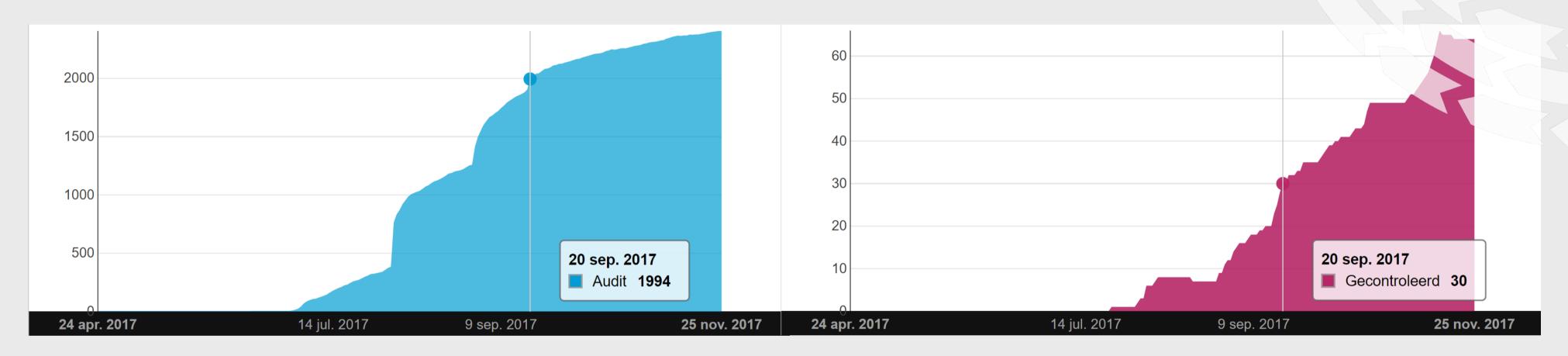


Jan Ruitenberg / Schiekadeblock adaptation proposal

Course evaluation – Course analytics

Audit track enrolment (FREE)

Verified track enrolment (49\$)



Enrolment totals on 26/11/2017

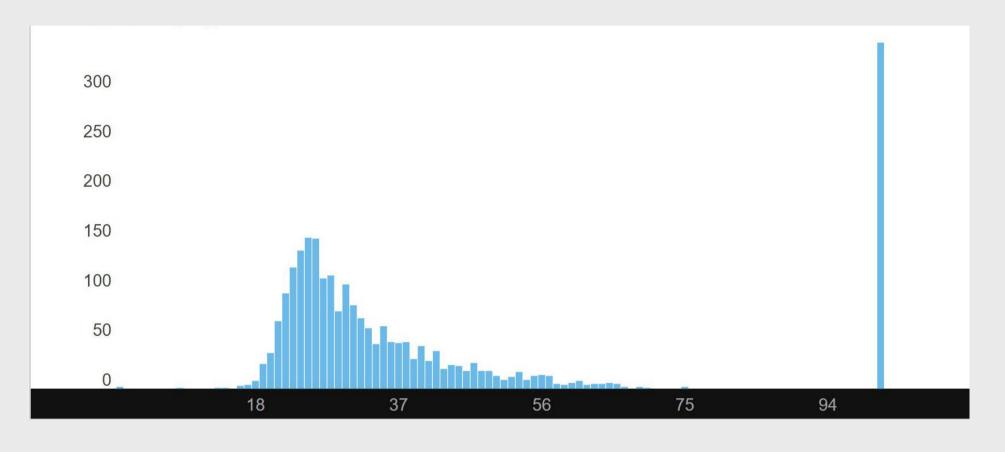
2.645
Totaal inschrijvingen

2.470
Huidige inschrijving

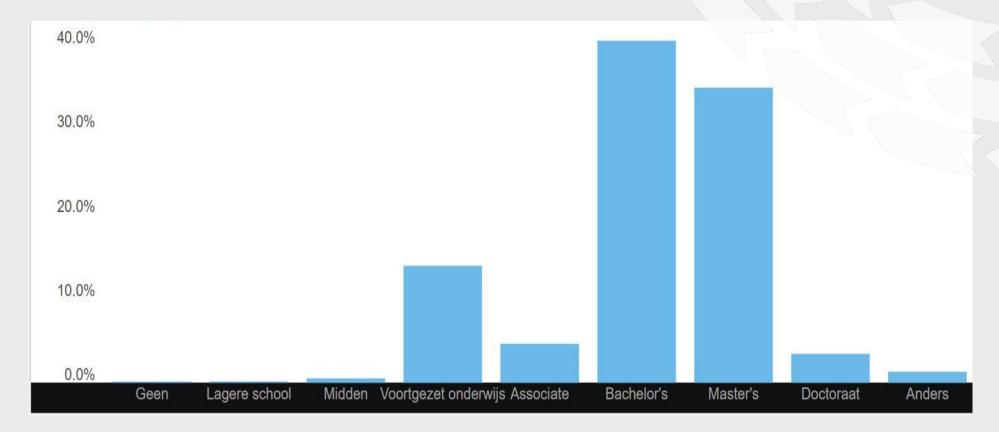
25 Veranderingen sinds afgelopen week 64
Gecontroleerde Inschrijving

Course evaluation – Course analytics

Demographics



Education level

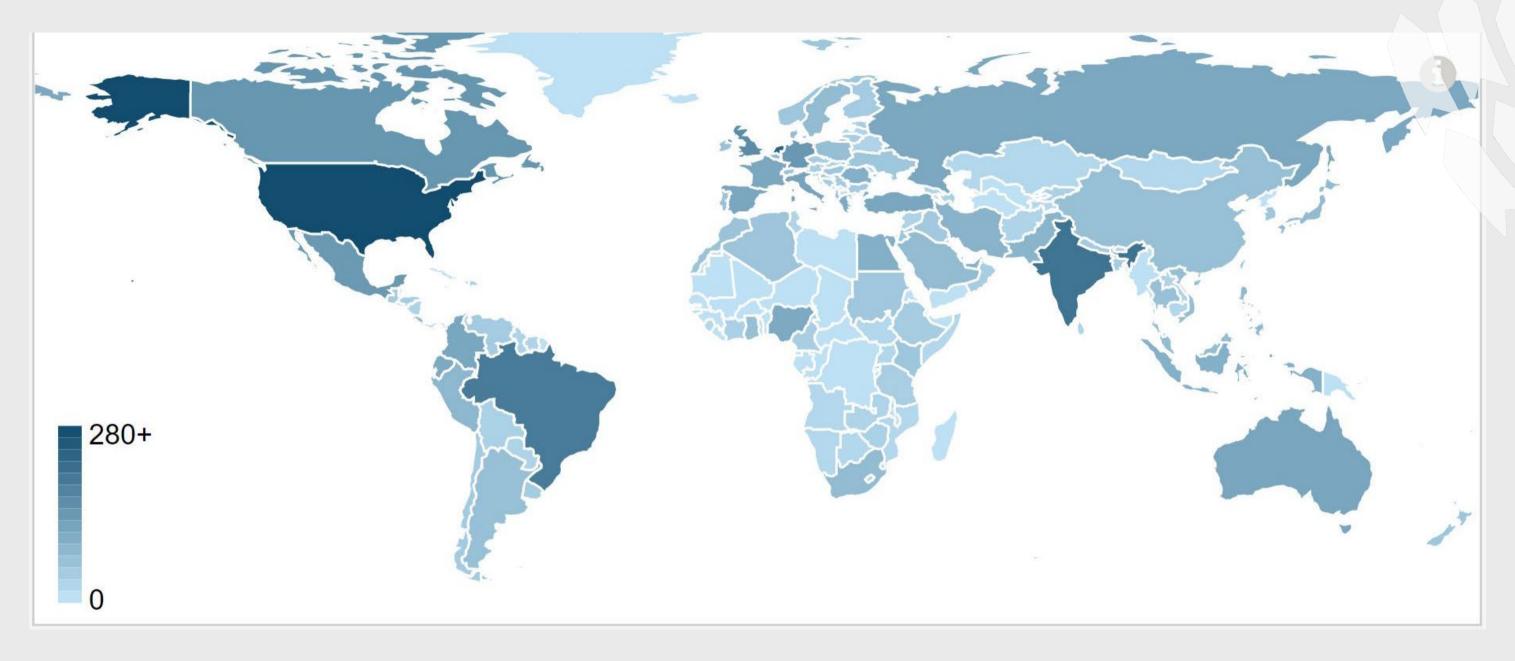


29 Mediaan van leeftijd van leerlingen

31.0% Learners 25 and Under 51.6% Learners 26 to 40 17.3% Learners 41 and Over Bachelor's882Master's761Voortgezet onderwijs302Onbekend301Associate101

Doctoraat	75
Anders	29
Midden	12
Lagere school	4
Geen	3

Course evaluation – Course analytics



Procent \$	Huidige inschrijving •
11,6%	286
8,5%	209
6,2%	154
5,3%	132
	11,6% 8,5% 6,2%

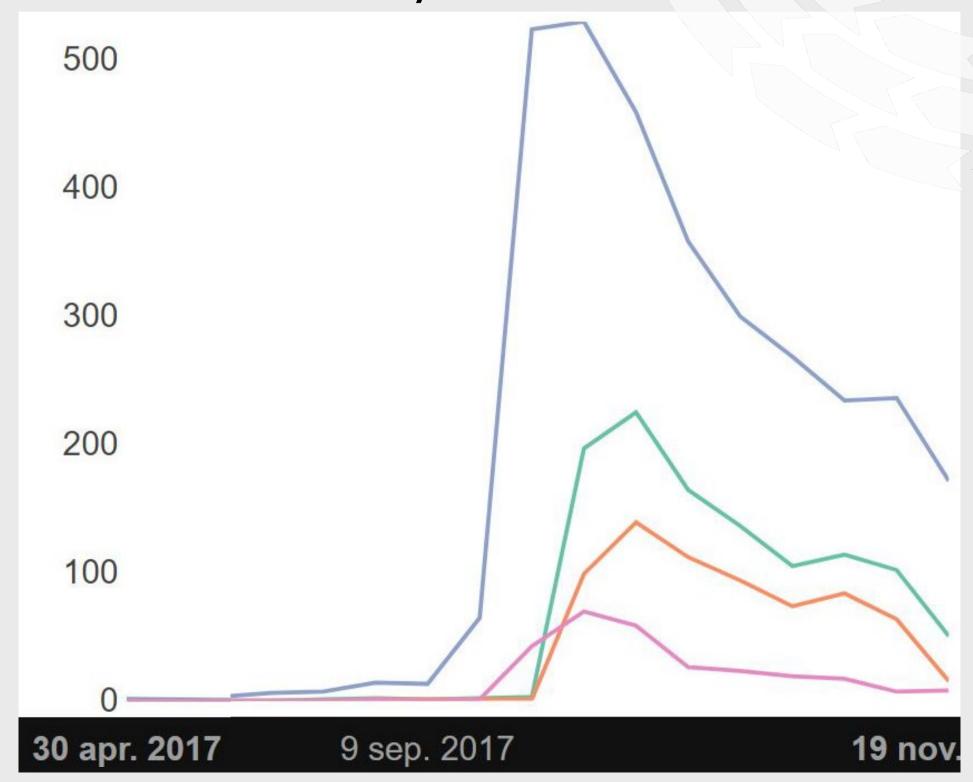
Land Onbekend	5,0%	123
Verenigd Koninkrijk	3,7%	92
Canada	2,9%	71
Duitsland	2,7%	67
Mexico	2,6%	65
Italië	1,9%	48

Course evaluation – Student performance

Key performance data

- 55 students were certificate eligible
- 39 certificates are issued
- Average grade of certificate eligible students = 85,4%
- Average grade of certificate issued students = **85,8%**

Learner activity over time



Course evaluation – Post-survey results

General

- Av. Grade: 8.3! (54r tot., 47 end course)
- Av. Time: 6,5h (45 r tot, also 17h)
- Positive result for a first-run MOOC

Most liked

- Recap videos: thoughts professors
- Practical case studies: theory + fun!
- Assignments really made a difference

Most valuable

- Managerial tools: 'a had no idea'
- Perspective of all MBA actors/phases
- Practical tools useable in my career

Improvements

- Deadlines, time for assignments
- Too much aimed at students/scholars
- Timely communication forum

Course evaluation – Lessons for Real estate education

Comparative lessons:

reformulating/reframing all aspects of traditional academic teaching

	Traditional MBE uni.education	Online MBE education
Learning objectives	High levels of learning (deeper understanding)	Lower levels of learning (intro to topic mainly)
Assignments	Exams, essays, feasibility studies, interdisciplinary working	Quiz tests, motivations, brief calculations, interdisciplinary environment
Assessments	Teacher's assessment, peer reviews, rubrics (criteria)	Self-assessment, 'peer reviews', checklists (criteria)
Interaction & communication	Room for error, informality within classroom	Less room for error, formalised by discussion platform

Course evaluation – Prospects for future RE education

MOOCs can:

- Increase the quality of teaching staff by online education training
- Increase teaching efficiency, by bringing across the main message
- Be integrated into and modernize campus & blended education
- Attract new international students to Bachelor/Master courses
- Build experience for professional courses (potential business model)
- Support research activities (generating data / publishing articles)

MOOCs can not:

- Replace campus education & fully support development of 21st C. student skills:
 - limitations to interaction & real collaboration (students-students / students-teachers)
 - limitations to in-depth knowledge & creativity (time constraints / nature of assignments)

Conclusions – Future of online Real Estate education

Role of online Real Estate courses:

- Educating global audience about the importance of real estate for a sustainable society, cities, built environment (overall goal + funding opportunities)
- Triggering broader interest in real estate campus education programmes (marketing tool + strengthening/supporting campus education)

Focus of online Real Estate courses:

- Appeal to a broad international public touching upon global (economic, societal, environmental, technical, etc.) challenges, and relating them to real estate
- Simultaneously allowing for practical/case assignments, assisting students in practising with real estate management, development, finance and investment aspects and tools (specialist & generic RE knowledge)

MOOC Re-run starting Oct 3, 2018

https://courses.edx.org/courses/course-v1:DelftX+MBA1.0x+3T2017/course/https://courses.edx.org/courses/course-v1:DelftX+MBA10x+3T2018/course/



DelftX: MBA10x

Managing Building Adaptation: A Sustainable Approach

Help



Course

Course Syllabus

Reading Material

Discussion

Progress

Instructor

Managing Building Adaptation: A Sustainable Approach





We hope
you have been
able to take
the
opportunity to
finalize your
assignments
and upload
your work to
Sketchdrive.
As there was
some
confusion
about the due

date and end date of the course, we decided to extend the due date for all the assignments to **Thursday 16 November 12.00 UTC**. So, the course is still open for you to complete the assignments, if you have not done so already.

Please note that the date to upgrade to a verified certificate has already passed.

We hope you enjoyed the course and we would like to see you in the future in other DelftX MOOCs!

Goal: Not sure yet

Course Tools

■ Bookmarks

Updates

Upgrade to Verified





Upgrade (\$50)

Learn More

Important Course Dates

Today is Jun 29, 2018 14:49 CEST

Course Starts

in 3 months - Oct 3, 2018