

Design your own Multifunctional Flood Defense

Minor module 9

Smart Cities – Multifunctional Flood Defences



M9: Smart Cities – Design your own Multifunctional Flood Defense





Dordrecht



Düsseldorf



Hamburg

Examples of Multifunctional Flood Defences



Katwijk aan Zee



Rotterdam

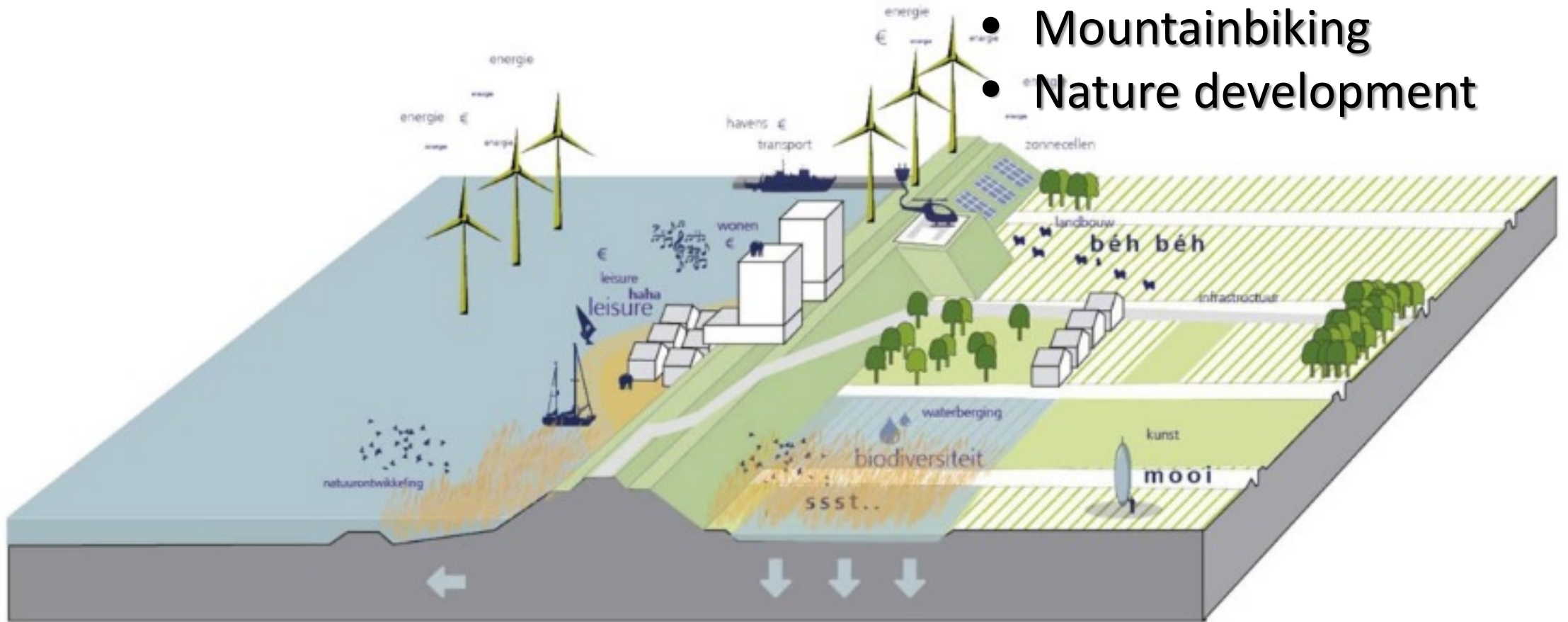


Scheveningen

dijk van een idee!
ontwikkelkansen voor de flevolandse dijken

Flevodijk functions: (Arcadis)

- Housing
- Energy
- Kite-surfing
- Mountainbiking
- Nature development



Ontwikkelkansen Flevolandse Dijken | Dijk van een idee!
Langste Mountainbike pad van Nederland



THEMA: LEISURE



ONTWIKKELKANSEN
Flevolandse Dijken ná 2018



Masterplan Yangzhou River Park



Rotterdam Roofpark



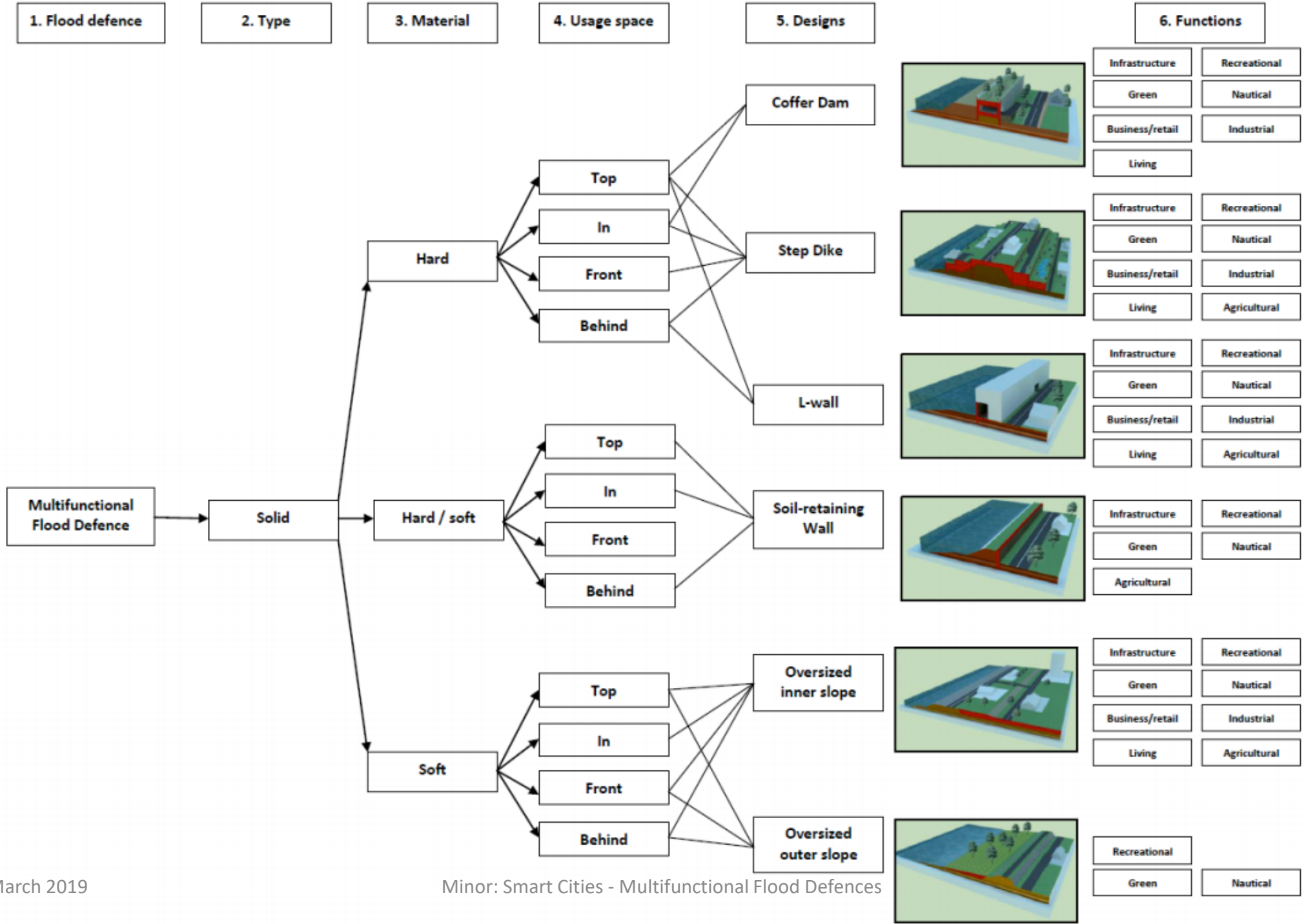
Rotterdam River Front
(artist impression)



The Hague flood retention wall

26 March 2019

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Multifunctional Flood Defences

What?

- Design a Multifunctional Flood Defences as an innovative solution for Smart City planning.
- Learn in-depth knowledge related to MFDs
- Apply this knowledge in an interdisciplinary design
- Co-create a physical scale model for the study area



Multifunctional Flood Defences

Who?

- CiT, IO, WB bachelor students can enroll directly.
- Other faculties allowed, contact (jord.warmink@utwente.nl)



Team work

Team	Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A						Team meetings
Team B						
Team ...						
Team X						

Expert meetings

Plenary meetings



Team work

Team \ Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A					Team meetings
Team B					
Team ...					
Team X					

Expert meetings

Plenary meetings



Team work

Team	Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A						Team meetings
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Expert meetings

Plenary meetings



Team work

Team \ Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A					Team meetings
Team B					
Team ...					
Team X					

Expert meetings

Primary meetings



Team	Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A						Team meetings
Team B						
Team ...						
Team X						

Expert meetings

Plenary meetings

Topic 1: Dynamic Use Functions



Team	Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A						Team meetings
Team B						
Team ...						
Team X						

Expert meetings

Plenary meetings

Topic 2: Stakeholder Management



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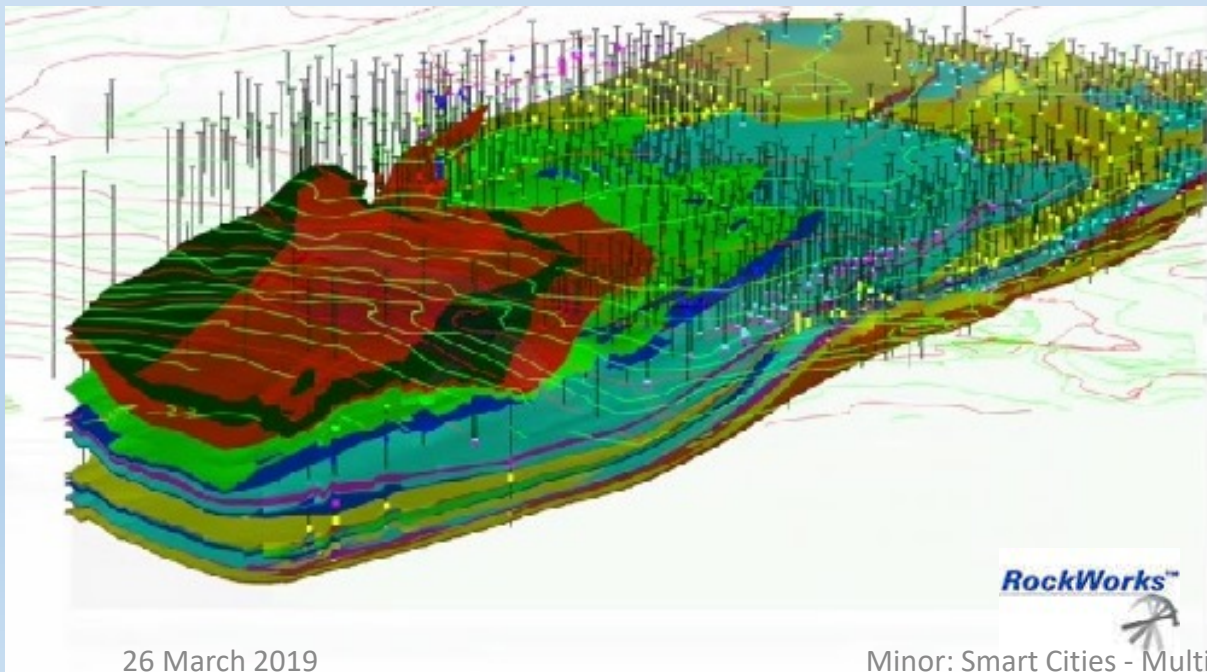
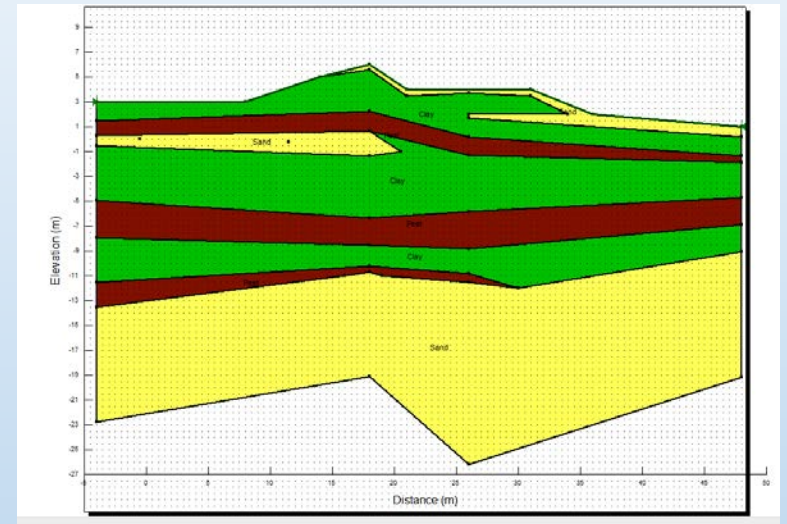
16/22

Team	Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A						Team meetings
Team B						
Team ...						
Team X						

Expert meetings (yellow box)

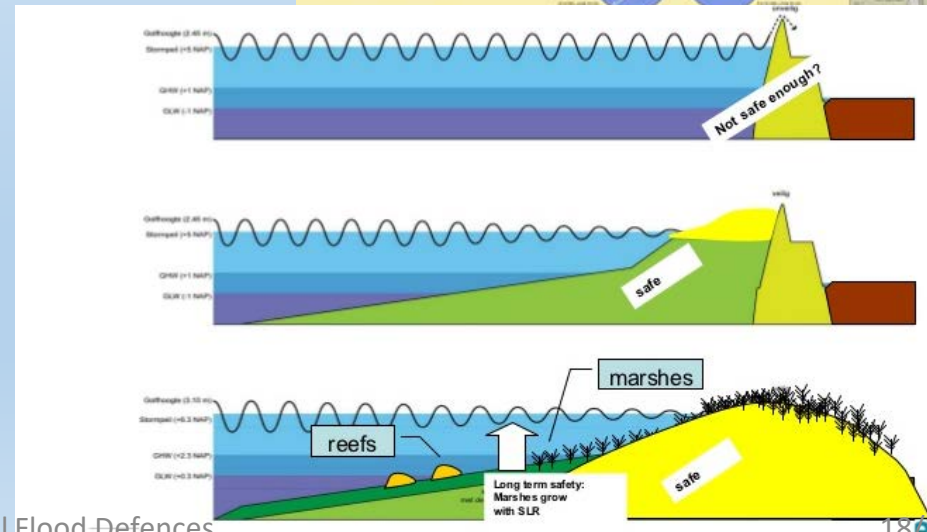
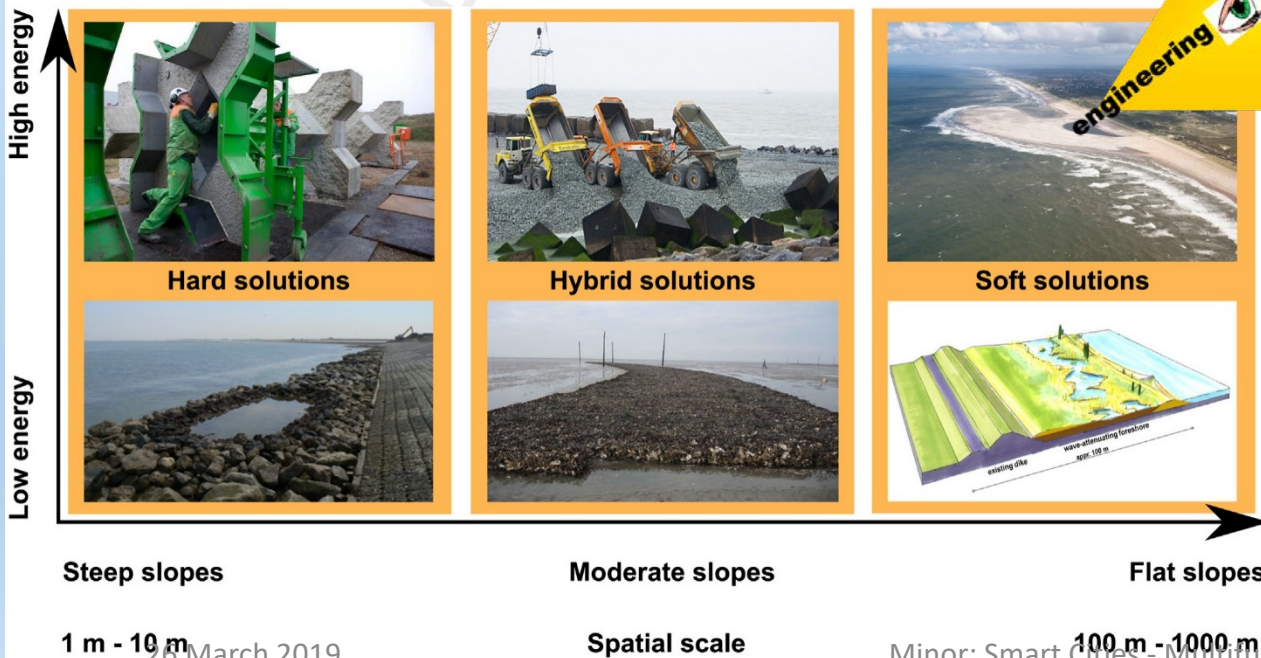
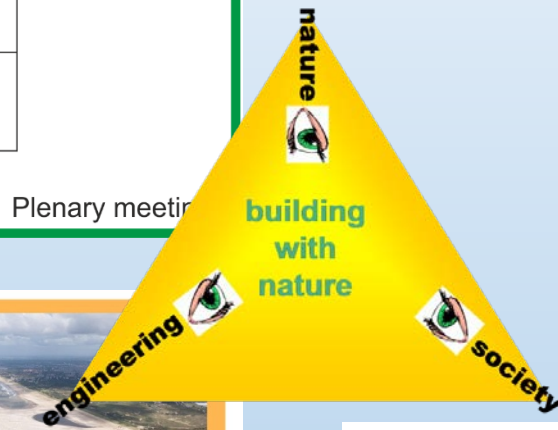
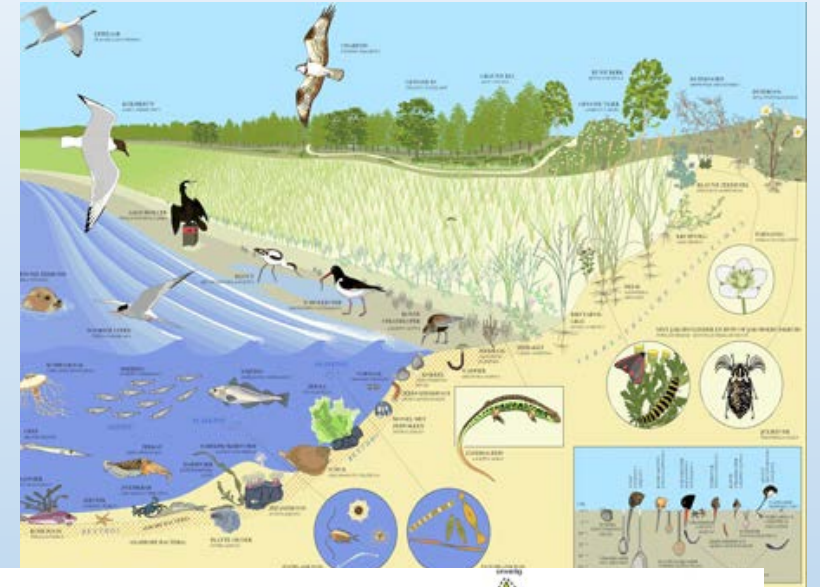
Plenary meetings (green box)

Topic 3: Spatial subsoil planning - 3D GIS



Team	Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. food safety
Team A					Team meetings
Team B					
Team ...					
Team X					

Topic 4: Building with Nature



Topic 5: Multifunctional Flood Safety

Team \ Topic	Dynamic use functions	Spatial planning	Building with Nature	Multifunc. flood safety	
Team A					Team meetings
Team B					
Team ...					
Team X					

Expert meetings (yellow box)

Plenary meetings (green box)

Wave overtopping



Lectures, Workshops, Multidisciplinary work in UT Design Lab



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20/22

Lectures, Workshops, Inter-disciplinary work in UT Design Lab

