

Innovative Landuse



TARA Dubrovnik meeting

7-9 May 2009

Changing Landuse to Mitigate Climate Change
A Transatlantic Collaboration

Huibert A. Haccoû

Introduction H. A. (Huibert) Haccoû

- Professor School for the Build Environment
- Saxion Universities for Professional Education
- Programme manager of the Habiforum Foundation
- Project director Interreg IIIc Operation MILUnet
- Interreg IVb Operation Livinggreen.

Content

- 0 Introducing Habiforum
1. Where TARA came from and where it intends to go?
- 2 The 7th Framework Programme (2007 – 2013) of the European Community for Research, Technology development and demonstration activities (council decision)
- 3 TARA Topics.
- 4 The New Urgencies. The Urgenda

Who are WE

The National Centre for Smart Growth (USA)

The Lincoln Institute for Land Policy (USA)

The Habiforum Foundation (The Netherlands)

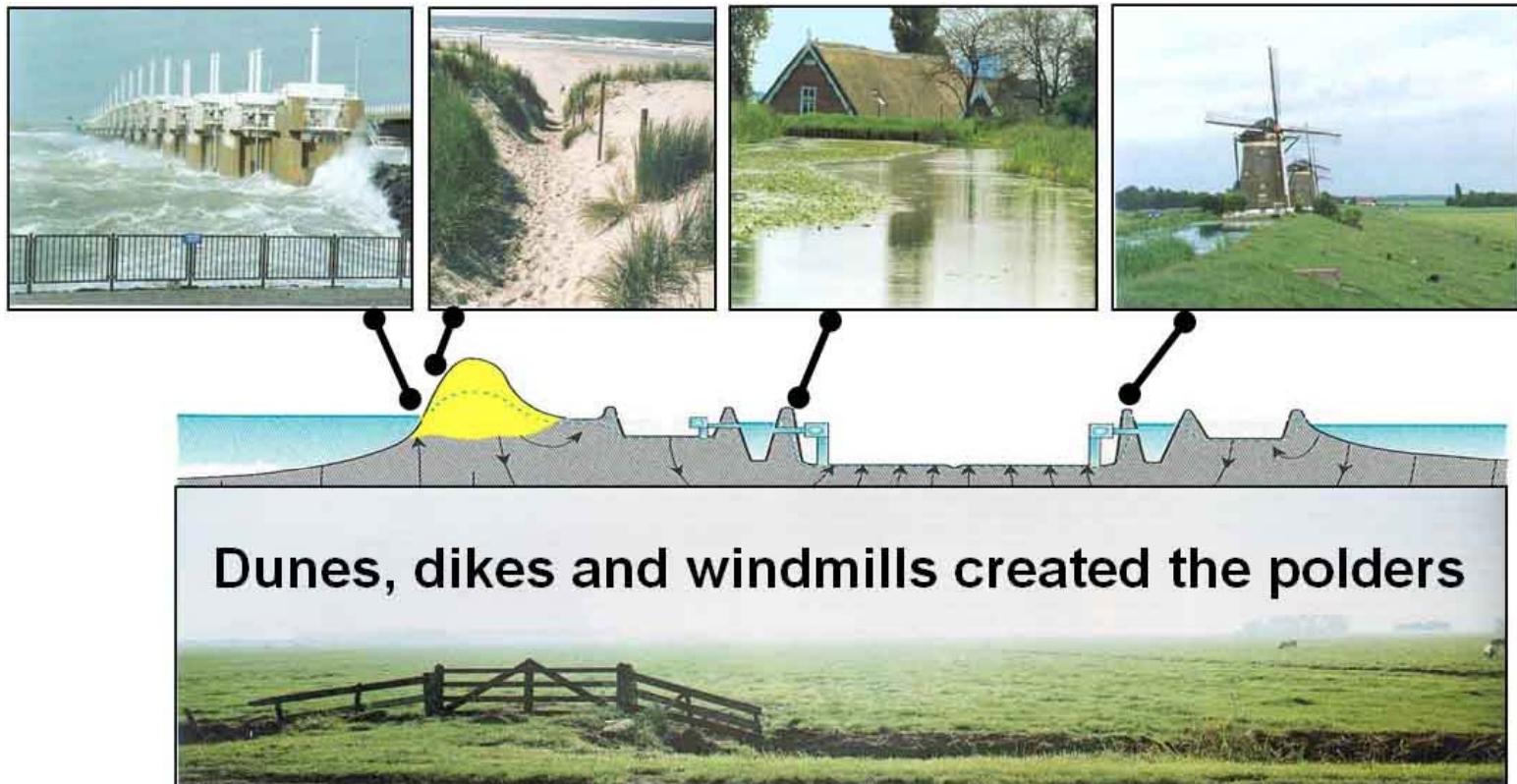
The Habiforum Foundation

- The Dutch Context
- What is Habiforum

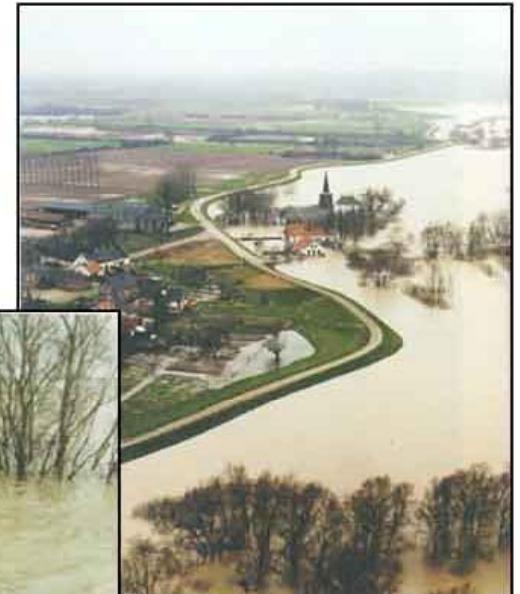
The Dutch context: Struggle against water



The Dutch context: Struggle against water



The Dutch context: Struggle against water



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Habiforum Foundation

Missions of the Habiforum Foundation



**Multifunctional intensive
land use
(2000-2004)**

IFHP Working Party MILU

**Innovative land use
(2004-2010)**

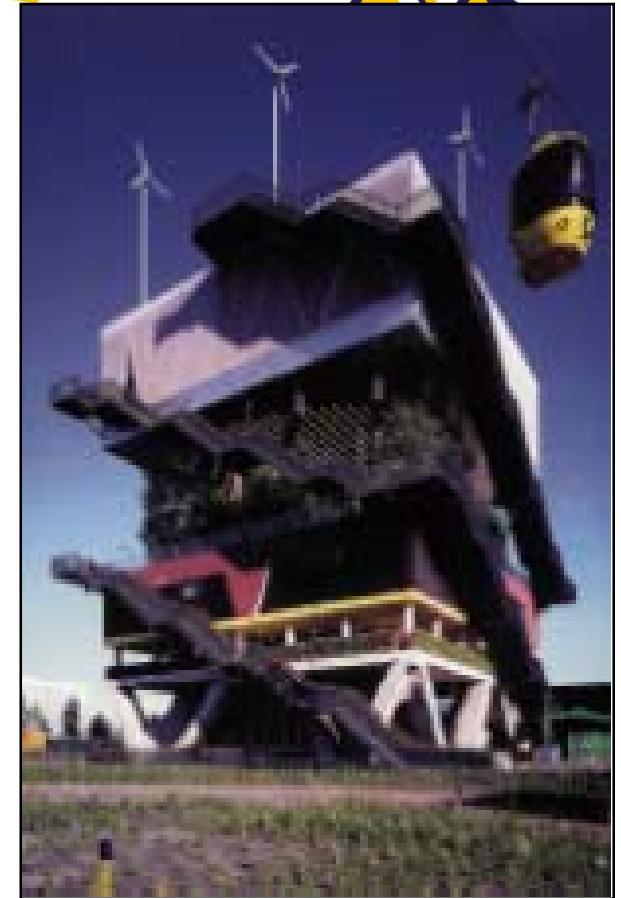
**Interreg IIIc Operation MILU^{net}
Interreg IVb Operation LGreen**

Aims of Habiforum

Aims

1. Promote Multifunctional Intensive Land Use
2. Realize more sustainable (urban) development in Europe
3. More effective policy implementation

Challenge



Turn urban growth into sustainable urban development

Where did TARA come from to go where ?

- 2000 Quick Scan – Enlarged Perspective
 - Ton Kreukels et all
- 2002 Den Dolder – Quest for Partners in Research
 - Huibert Haccoû et all
- 2004 Annapolis – Incentives, regulation and plans
 - Gerrit Knaap et all
- 2006 Sabbionetta – Starting up of the process of application to the EU 7th FP, endorsed by Habiforum and Lincoln Institute.
Development meeting in Zeist 2007 and Gouda 2008 resulted in two project proposals
 - Coastal Cities (2007) € 2,5 KK,
 - Sustainable Climate Integrated Coastal City Planning (SCI CCP) (2009) € 3,5 KK

EU Seventh Framework Programme (2007-2013)

(Cooperation specific programme supports cooperation between universities, including research centers and public authorities across the EU and the World.)

- Programme should be open to the participation of entities from third countries and international organizations.
- Amount necessary shall be € 44.432 milj.
- Themes are based on the work of various ECTP's SRA's
- 9 Themes: **Health, Food, ICT, Nano sciences, Energy, Environment, Transport, Soc.Ec.Sciences and Humanities, Security and Space**

EU Seventh Framework Programme (2007 – 2013)

Environment (Including Climate Change) Objective

- Sustainable Management of Resources (activity)

“Research will address sustainable management of forests, and the urban environment including planning”

“Technologies for the environmentally sound and sustainable management of the human environment **including the built environment, urban areas, landscape** as well as for the conservation and restoration of cultural heritage”

EU Seventh Framework Programme (2007 – 2013)

Environment (Including Climate Change) Objective

“The analyses of technology, socio economic drivers externalities and governance as well as foresight studies will be included. Areas of application include land use and marine policies and the ec.pol.soc. conflicts related to climate change !”

EU Seventh Framework Programme (2007-2013)

Transport (Objective)

Surface transport (rail road and water borne) (activity)

- decongesting transport corridors
- ensuring sustainable urban mobility

Etc. etc.

General conclusion: The EU Seventh Framework Programme formulates broad enough concepts to involve specific research interests.

The TARA Topics

1. Results of the survey on the advantages of exploring the land use and development issues from a transatlantic perspective.
2. The rationale behind the proposed selections of topics for a Trans Atlantic research Agenda.
3. The demands for co financing.

The TARA Topics

Survey resulted in the following potential topics for a transatlantic approach

- Property rights*
- Sustainable Development*
- Immigration
- Growth Management*
- Information Technology
- Land use and transportation*
- Built Environment
- Affordable Housing*
- Governance*
- Role of Universities / Institutions*



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NEW URGENCIES

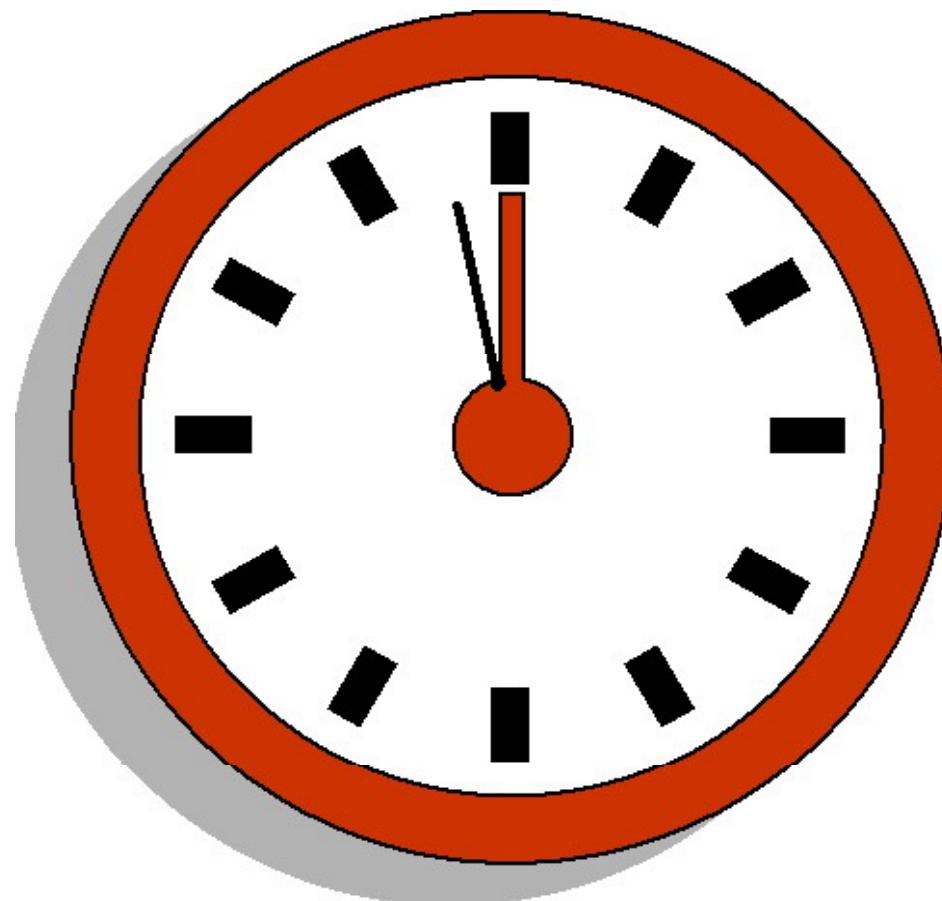
URGEND AGENDA:

the Netherlands as experimental garden
for sustainable development

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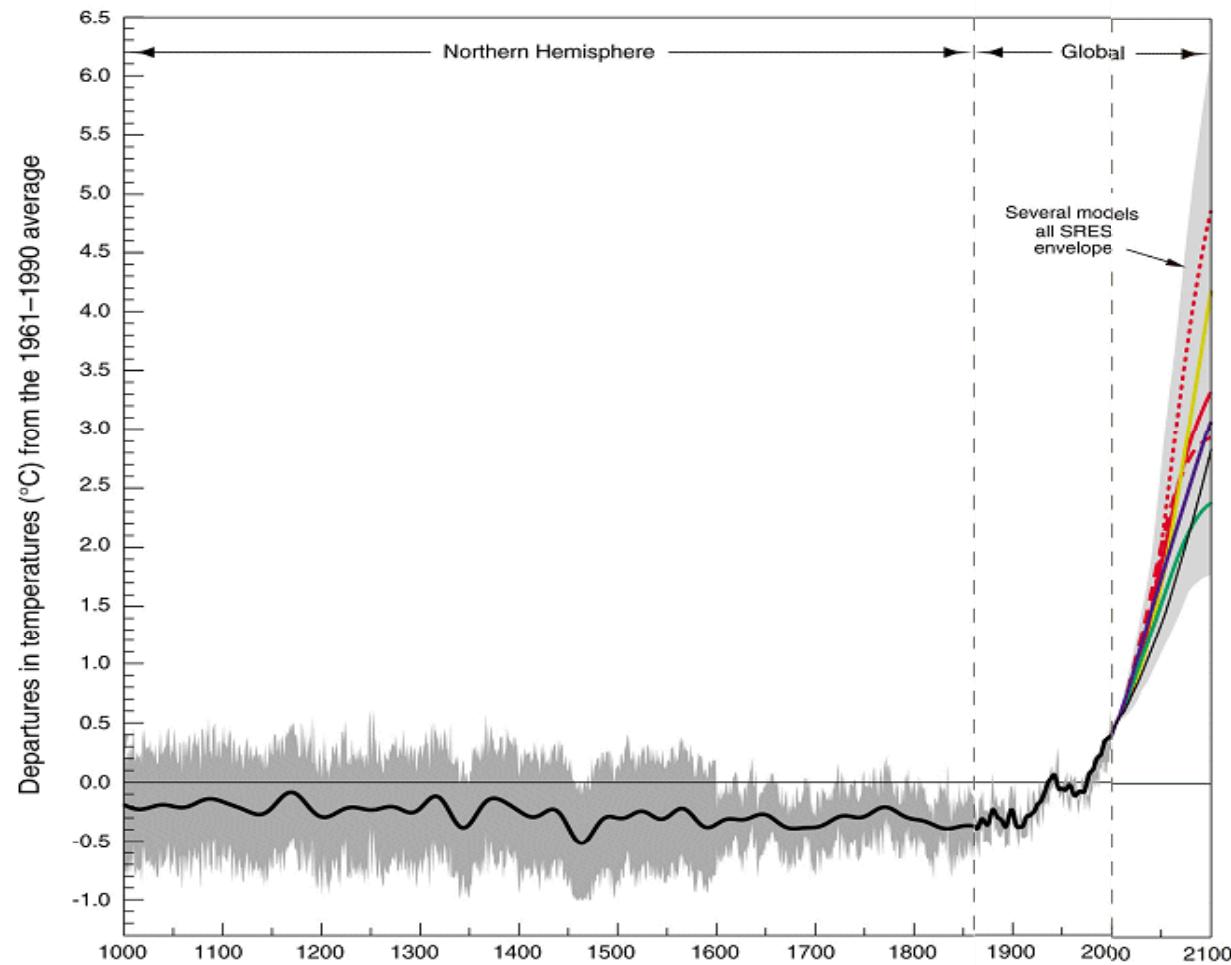
Urgency



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Urgency



Urgency

Temperature and sea level rise twice as fast as estimated before

Climate is reaching a tipping point with abrupt climate change

CO2-emission since 2000 four times faster than decades before

climate policy doesn't come off the ground

Urgency

Increasing pressure on Dutch Delta

*Dutch Delta is one of the busiest areas in the world
in 2038 the Dutch Delta will have:*

- 1 million people more
- 50% more cars
- 200% more airplanes
- 20% more houses
- 10-15% of aboveground space will be used for water
- 25% of people above 65
- 20% of people above 50
- 35% of people are immigrants

Netherlands 2050 – enormous challenge

The Netherlands will change in the coming 50 years more than in the past 500 years.

We will transform our physical landscape and our social landscape in a substantial manner.

Comparable with inpoldering 17th/18th century.

Requires radically different thinking and acting.

What is the Urgenda?

Agenda for reform based on the sense of urgency

Strategic plan with list of steps and concrete actions
[40 targets] in the short and long term

Aims is to make the Netherlands more sustainable

Combines a bottom-up and top-down strategy

Concrete targets

- in 5 years: 1000 CO2-neutral streets
- in 10 years: all newly built houses are sustainable
- in 15 years: first floating city in the Netherlands
- in 20 years: roofs of all houses are sustainable ("green roofs")
- in 30 years: all construction companies are transformed to service companies
- in 40 years: the Netherlands is climate- and water robust

Strategy

Urgenda Foundation

1. Establishes a sustainability platform
2. Develops inspiring vision for sustainable Netherlands
3. Links thousands of sustainability initiatives
4. Creates a movement through linking undercurrent and regime
- 5 Starts up five 'icon projects'

Sustainability platform

Innovation strategy/action group

1. 25 frontrunners

[business people, intermediaries, scientists, NGO-ers]

2 Supported by the Dutch cabinet

3 Develop an inspiring vision for the Netherlands 2050

4 Part of the sustainability agenda of the cabinet

autonomous, link between the cabinet and society

Regional Projects

1. Spatial regional plans under the umbrella of the Urgenda
2. Sustainable regional planning
3. Innovative process planning
4. Integration of mobility, environment, building, space use

Zeist, Haarlemmermeer, Zeeland, Twente

ICON-projects

1. Electric car, clean vehicles linked to wind energy
2. Climate neutral cities Tilburg, Rotterdam, Almere
3. Sustainable Wadden Islands Wadden as experiment for sustainable energy
4. Rotterdam harbour area 1600 ha transformed into living-working area
5. The floating city living, working, recreating, moving on and round the water

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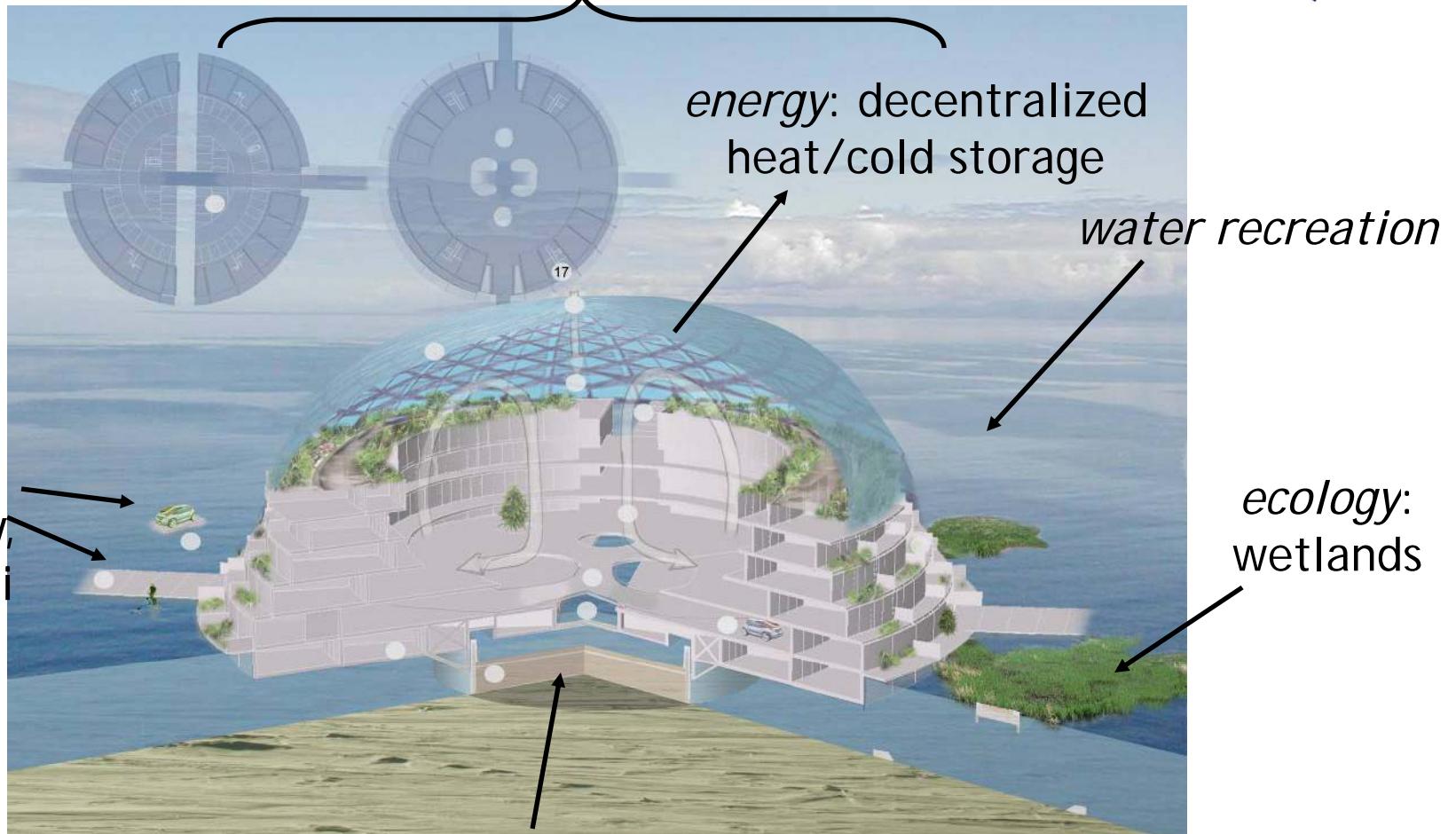
housing/work-units

*energy: decentralized
heat/cold storage*

water recreation

*mobility:
floating
motorway,
water taxi*

technology: floating foundation



Why a floating city?

- Climate neutral and climate proof
- Flexible and cheaper
- Integration of functions
- Social, economic and physical entity
- International export opportunity





What is a sustainable floating city?

- *Physically* sustainable
energy, materials, climate proof
- *Economically* sustainable
affordable, safe, reliable
- *Socially* sustainable
pleasant living environment
- *Culturally* sustainable
in spirit of cultural history



What is the role of the Urgenda Foundation?

Provide future orientation

Connect / accelerate / scale up

Provide expert knowledge

Provide action perspective

Exert pressure

CO2-neutral Netherlands

40% CO2-reduction by 2020

- Climate mitigation committee à la Delta-committee
- Large scale wind energy: 20 wind parks off shore with 200 windmills of 5 MW
- Large scale solar energy: Dutch solar initiative: 100.000 solar energy systems in 5 year
- Construction sector CO2-neutral
- Decentralized energy generation:communities roofs, roads, houses, greenhouses

Messages to future world leaders

Sustainability will become a major future economic pillar

Sustainability transition cannot be directed, only facilitated

Create (mental, juridical) space for frontrunners

Think and act in an integrated (multi-disciplinary) manner

Sustainability requires searching, learning and experimenting

Conclusions

The Netherlands faces a formidable sustainability challenge

R\$equires a non-traditional approach

Society should be leading rather than politics

Action and vision hand-in-hand

social movement

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Trans Atalantic Research Agenda on Changing Landuse to Mitigate Climate Change

Thursday May 7 Overview

18.00 hours

Welcome by Armando Carbonell Lincoln Institute

19.00 hours

Stephen Wheeler Un of California

Mark Fleischhauer Un of Dortmund

Trans Atlantic Research Agenda on Changing Landuse to Mitigate Climate Change

Friday May 8 Actions taken at local – regional level

8.30 Introductions

Gerrit Knaap Un of Maryland

Huib Haccou Habiforum Foundation

9.00 Municipal Cases from the US

Gil Kelly Portland Oregon USA

Tom Wright Regional Plan Association New York City

10.30 Break

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10.45 Municipal Cases form Europe

Leonel Fadigas Technical Un of Lisbon, Portugal

Babette Koehler Freiburg Germany

12.15 Lunch

13.15 Regional Cases form Europe

Karolina Krosnicka Gdansk Poland

Richard Langlais Stockholm Region Sweden

14.45 Break

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15.00 Regional Cases from the US

Mike McKeever , Sacramento Area Council

Julia Lave Johnston, California office of Governor Scharzenegger

Gerrit Knaap National Center for Smart Growth Un of Maryland

16.45 Most effective local practices a facilitated discussion

17.30 Adjourn

19.00 Dinner

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Saterday May 9 What needs to be done ?

8.30 Transporation, Energy and Urban Design in the US

Robert A. Johnston Un of California, Davis

Patrick Condon Un of Britisch Colombia

10.00 Break

10.15 Green Infrastructure – Institutions-Scenario Planning in Europe

Angela Hull Herriot Watt University Edinburgh

Chris Zevenbergen TU Delft / Unesco -IHE

11.45 Lunch

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Governance , Institutions and Policy EU and the USA

13.00 Perspectives from Europe

Rohan Uhel European Environmental Agency

Ruut Louwers EU Interreg IVb JTS

14.45 Break

15.00 Perspectives from the USA

Richard Hall Maryland Dep of Planning

John Freece , EPA

Tina Hodges Fed Transit Administration

16.45 Wrap Up

Derek Martin,SG IFHP, Gerrit Knaap, Huibert Haccou