

Kennis voor Klimaat Knowledge for Climate



Multifunctional Land Use: adaptationstrategy for climate change

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Session 5.2: Generating and evaluating potential solutions

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- Introduction
- Main challenges
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The province of Noord-Brabant (NL)



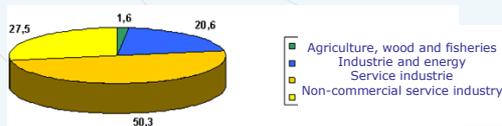
Facts about Noord Brabant

Surface: 5082 KM²

Population: 2.434.560

GDP/capita: 35.000 Euro

Municipalities: 68



Sources: Province of Noord Brabant (2009)/CBS (2008)

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Main challenges of the project



Three important developments in Noord Brabant

- Claims exceed available space
- Climate change results in more claims
- Financial crisis resultst in less public funding available

This presents three challenges:

1. Increase land use efficiency (including adaptation measures).
2. Develop new governance arrangements.
3. Reduce the dependency on public funding.

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Solution push: multifunctional landuse

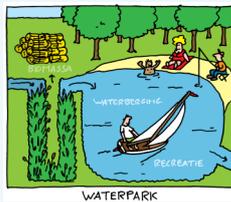


4 dimensions (Weebers, 2007) :

- Intensifying



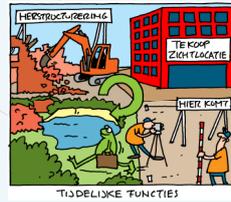
- Interwoven



- Layering



- Different use in time



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Theoretical reflection: Climate adaptation as an unstructured problem



Hisschemöller (1997): describing problemstructures

<i>Knowledge base</i>	CERTAIN	UNCERTAIN
<i>Values and norms</i>		
CONSENSUS	1-Well structured	2-Moderately structured
DISAGREEMENT	3-Moderately structured	4-Unstructured

Strategy for unstructured problems: **a learning approach**

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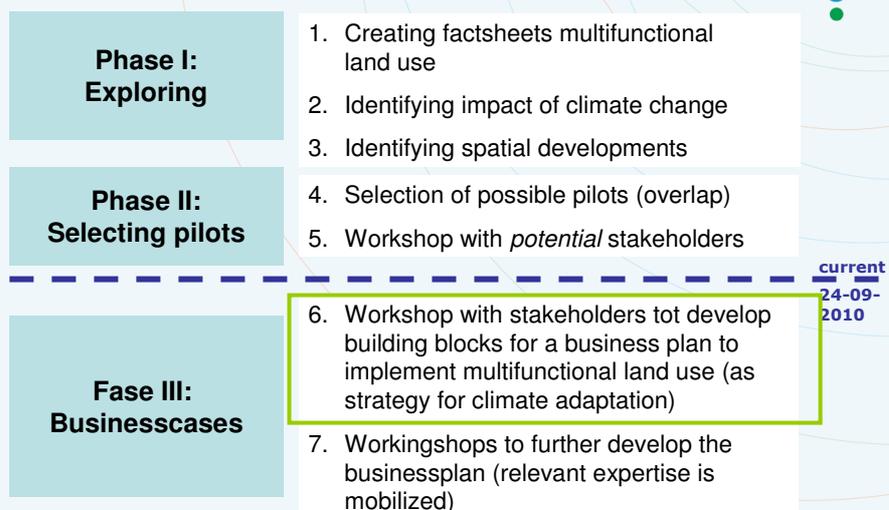
Different interests with a different sense of urgency



Van Rooy et. al 2006 and 2009

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Approach of our project



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Phase III: possible multifunctional landuse pilot



Title: Disconnecting nature from the water management system

- **Why would you want to do this?:** Restoration of dry nature areas, preventing flooding and groundwater suppletion for agricultural use ,
- **Most important questions?:** effects, benefits for surrounding areas, costs.
- **What are developments are taking place in the area?**
- **Who is/should be involved?:** ministerie of defence, staatsbosbeheer, private organisations (f.e. energy, recreation)
- **What is the planning?**
- **How does the idea deal with the effects of climate change?** nature adaptation, adaptive watermanagement (bufferfunctie of surfacewater and groundwater suppletion)
- **Why is the concept innovative?** Only applied on micro scale
- **Were could it be implemented?**

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Preliminary conclusions



- Multifunctional is a solution for adaptation to climate change in areas with high spatial pressure.
- Climate adaptation is an unstructured problem that can be addressed with a learning approach.
- In the project the learning approach is brought into practice by creating cooperative business plans with stakeholders for two cases.
- Letting stakeholders 'create and adopt' a business plan can also lead to connecting different interests and creating a sense of urgency.
- Results of these cases can be transferred to other regions and MFL combinations (dissemination of knowledge and experience)

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Questions or suggestions?



Answers
Questions
suggestions

Suggestions and questions are very much welcomed and can be sent to:

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