



Combining participation with novel visualization tools in adaptation planning

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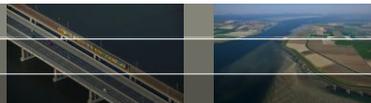
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Use and effects of visualization tools for co-design of spatial adaptation planning in urban environments



Background

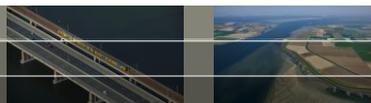


- Participatory approaches to urban planning
 - Procedural and substantive benefits
- Communication
 - Diverse stakeholders
 - Levels of understanding
 - Types of knowledge
- Visualization for communication



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Reality check!



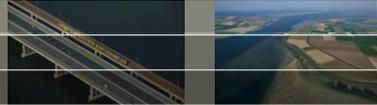
What effect do visualization tools have on:

1. A participatory process?
2. The product (plan)?



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Methods

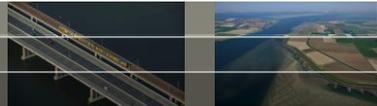


- Workshop setting
- Spatial adaptation design
- ‘Treatments’
- Data
 - Observations, surveys, questionnaires, records, plans
- Analysis



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Visualization tool



The Adaptation Support Tool

- Developed by Deltares and partners
- Touch-table
- Co-design
- Spatial adaptation of urban environments



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Adaptation Support Tool

ranked list of measures

dashboard; performance indicators

Oaxaca, Mexico

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Results

1. Advantage/Disadvantage

- Participants: background, skills, interests
- Tools: field, information, measures, evaluation

2. Bias

- Understanding: information, scale
- Solutions: scale, types

3. Inclusion/Exclusion

- Who
- What

Next steps

- Repeating workshop experiments
- Tools and methods for better use of visualization
 - GRACeFUL Project (graceful-project.eu)
- Case studies in Dutch and international cities



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Thank you.

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