



Enabling Ecosystem-based Adaptation for Climate Adaptation

Organised by
Water, Climate & Future Deltas Hub

Pathways to Sustainability conference week
Making Change Happen



The 'Hub' Water, Climate & Future Deltas

The hub: a knowledge platform

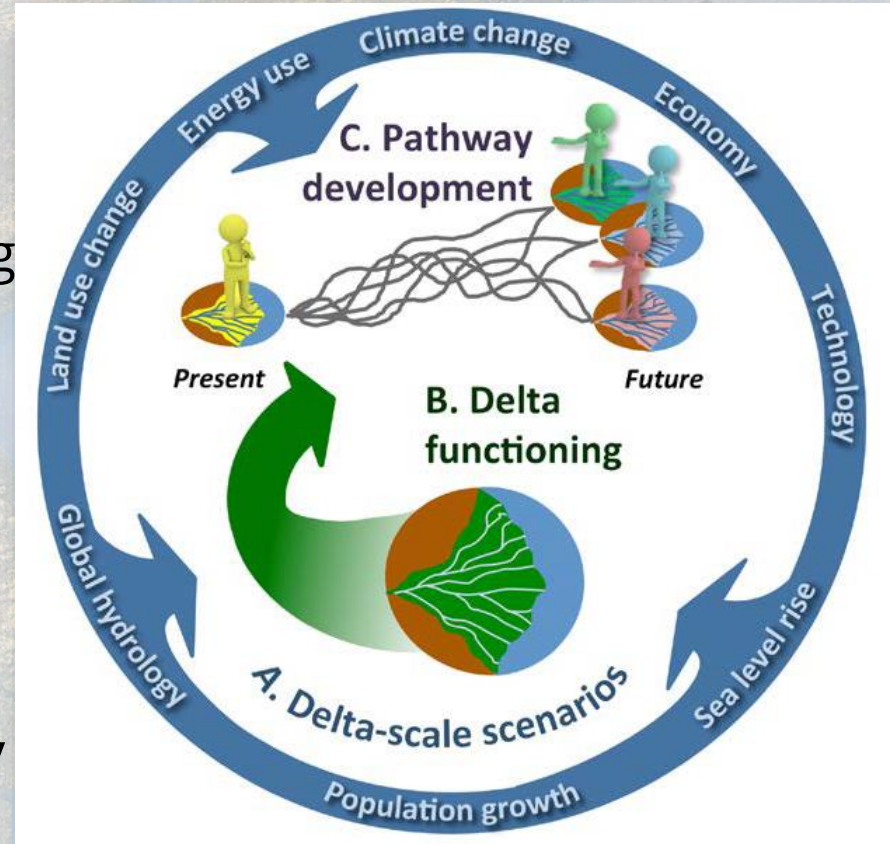
- To stimulate the development, co-creation and sharing of knowledge on deltas,
- **System thinking** and **interdisciplinary** approach,
- By **co-creation** with delta policy makers, water managers and practitioners,
- **Societal impact** through **scientific knowledge** for informed decision-making,
- To support **development of pathways** for long-term sustainable deltas.
- **Activities:** proposal development, research projects, co-creation sessions (hackathon, seminar, etc.), education (summer course, MSc/ BSc theses, etc.)





Our Approach

- **System understanding:** external drivers & delta functioning
- **Pathway** design & evaluation
- Focus on **long-term horizon** for sustainable delta management
- **Interdisciplinary:** integrating expertise and disciplines from UU and external partners
- **Fundamental + transdisciplinary**



Organisation Team



Tjeerd Bouma



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Anouk Timmerman



Katharina Jüdt

Co-organised by the Water, Climate and Future Deltas Hub of Utrecht University and Royal Netherlands Institute for Sea Research



Utrecht University



Royal Netherlands Institute for Sea Research



Our moderator today



Petra Dankers (*Royal HaskoningDHV*)



Today: Enabling Ecosystem-based Adaptation for Climate Adaptation

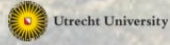
Objectives:

- *What are the knowledge gaps for upscaling of Ecosystem-based Adaptation?*
- *What are the first steps that should be taken to enable the implementation and upscaling Ecosystem-based Adaptation?*



House rules

- For **online** participants:
 - Please keep your microphone muted
 - We encourage you to turn your camera on
 - Questions about the presentations can be asked in the chat
 - During the discussion, to join the discussion, please use "*raise your hand*" function on Zoom
- For participants **at the venue**:
 - To ask questions or join the discussion, please raise your hand and wait for the microphone



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Program – Highlights

Time	Session
09:00-09:10	Opening & Introduction
09:10-09:40	Setting the Scene – presentations on large scale processes
09:45-11:00	Session 1 – Estuaries and Mud Coasts
11:15-12:30	Session 2 – Sandy Coasts
12:35-13:20	Closing Plenary – Panel Discussion
13:20-14:00	Lunch



Program (1/4)

Time	Program	By
09:10-09:40	Setting the Scene Projections for future delta land loss and potential ecosystem-based adaptation Drivers of Coastal Change Resilience-based governance of social-ecological systems	Jaap Nienhuis (Utrecht University) Arjen Luijendijk (Deltares) Ahjond Garmestani (United States Environmental Protection Agency) - <i>Prerecorded</i>
09:40-09:45	Break	



Program (2/4)

Time	Program	By
09:45-10:35	Session 1 – Estuaries and mud coasts Flattening of accreting tidal flats accelerates terrestrialization in multiple European estuaries Growth and erosion dynamics of mangroves in Suriname and Indonesia, a remote sensing timeseries analysis Governing coastal ecosystem-based adaptation: insights from Indonesia, India and Vietnam It takes more than two to tango: Shared or fragmented responsibilities in Ecosystem-based Adaption projects for Climate Adaptation. Innovative double dike projects in estuaries and along mud coasts as case study Double dikes, triple benefits	Greg Fivash (Royal Netherlands Institute for Sea Research) Steven de Jong (Utrecht University) Annisa Triyanti (Utrecht University) Marleen van Rijswijk (Utrecht University) Bas Roels (World Wide Fund for Nature)
10:35-11:00	Discussion	Moderated by Petra Dankers (Royal HaskoningDHV)
11:00-11:15	Tea/Coffee break	



Program (3/4)

Time	Program	By
11:15-12:05	Session 2 – Sandy coasts	
	Ecological recovery and improved safety of coastal dunes	Gerben Ruessink (Utrecht University)
	Stabilising tropical beaches with seagrass	Rebecca James (Wageningen University & Research)
	Scaling up ecosystem-based adaptation – Why cross-sectoral and interdisciplinary cooperation is crucial	Henk Nieboer (EcoShape)
	Co-design for future coast	Petra Goessen (Hoogheemraadschap Hollands Noorderkwartier)
	Different government roles in achieving societal value at the Sand Motor	Heleen Vreugdenhil (Delft University of Technology/ Deltares)
12:05-12:30	Discussion	Moderated by Petra Dankers (Royal HaskoningDHV)
12:30-12:35	Break	



Program (4/4)

Time	Program	By
12:35-13:20	Closing plenary <u>Panel members:</u> <ul style="list-style-type: none">- Henk Nieboer (EcoShape)- Marleen van Rijswick (Utrecht University)- Bas Roels (World Wide Fund for Nature)- Karen Sudmeier-Rieux (United Nations Environment Programme)- Maarten van der Vegt (Utrecht University)- Eisse Wijma (World Bank)	Moderated by Petra Dankers (Royal HaskoningDHV)
13:20-14:00	Lunch	