

Proposal for International Training Module on Floating Development

Webinar: How can floating development help adaptation to climate change?

2 September 2021, dr. ir. Rutger de Graaf-van Dinther



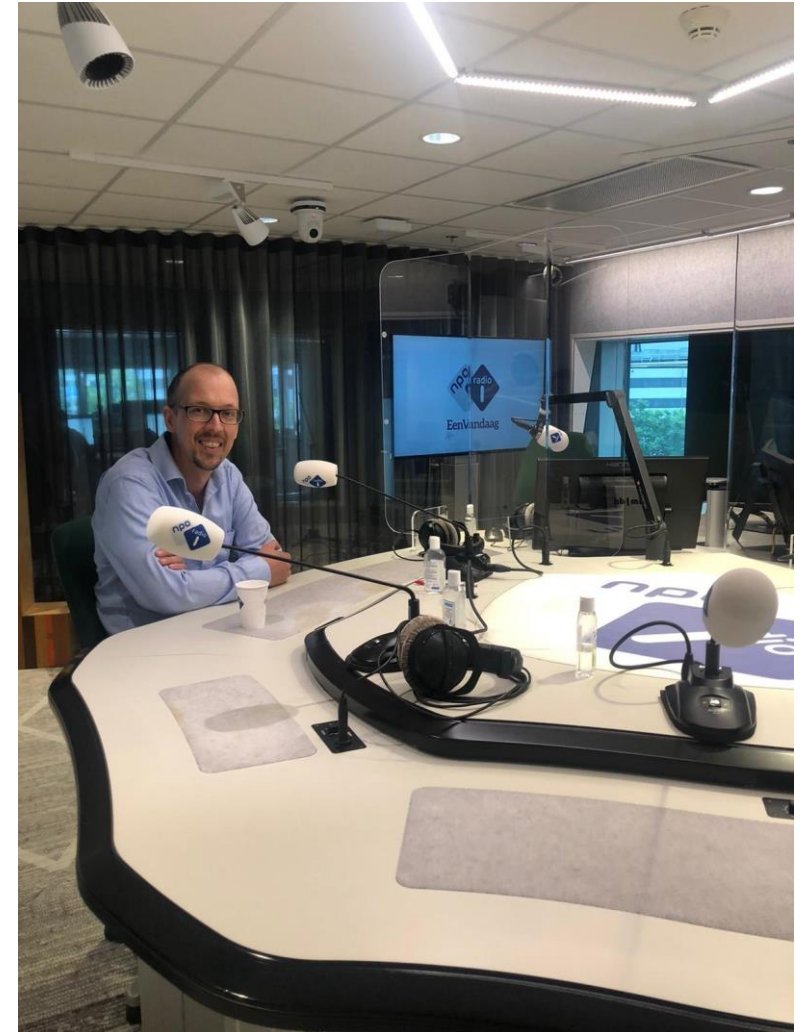
Webinar: How can floating development help adaptation to climate change

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Introduction

My mission: enable climate-proof floating developments with a positive social and ecological impact

- Chairman and co-founder *Blue Revolution Foundation*
- Director/co-founder *Indymo, DeltaSync and Blue21*
- Co-initiator of *Floating Pavilion Rotterdam*
- Key-note speaker and co-chair *2nd World Conference on Floating Solutions 2020 (WCFS2020)*
- Editor book *Climate Resilient Urban Areas* published by Palgrave MacMillan
- Author *The Five Pillars of Climate Resilience* with Henk Ovink
- Editorial Board member *Journal of Water and Climate Change* at International Water Association
- Co-initiator of National Research Initiative *Floating Future* with Maritime Research Institute the Netherlands (Marin)



International Training Module on Floating Development

Why?

- Floating developments have a global potential to contribute to create climate-proof living space and support the urgent urban transformations to resilience
- However, current projects are still relatively small and the required scale of application is lacking
- Awareness and knowledge about floating developments needs to be strengthened to enable wider application of this technology



The building blocks are there, the required scale not yet..



Floating Walkway



Floating District



Floating Port



Floating Swimming Pool



Floating Breakwater



Floating Farm



Floating Public Buildings



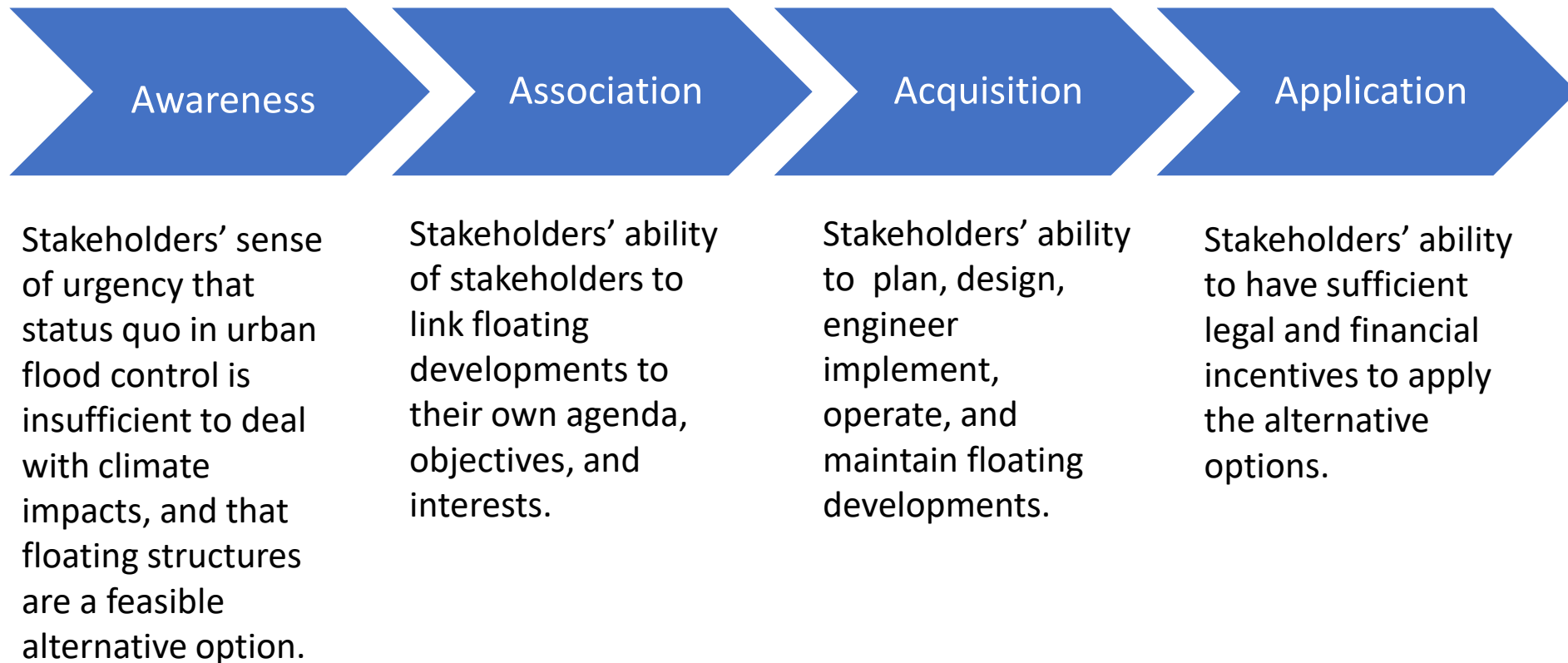
Floating Solar Farm



Floating Wind Farm

Receptivity of stakeholders for floating developments

- Receptivity: “the extent to which there exists not only a willingness (or disposition) but also an ability (or capability) in different constituencies (individuals, communities, organisations, agencies, etc.) to absorb, accept and utilise innovation options.” (Jeffrey and Seaton, 2003)



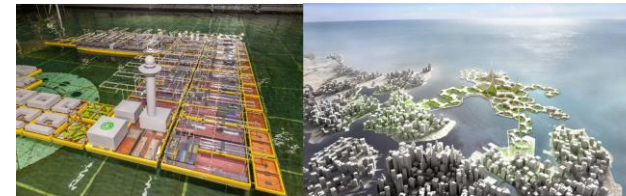
Capacity building initiatives



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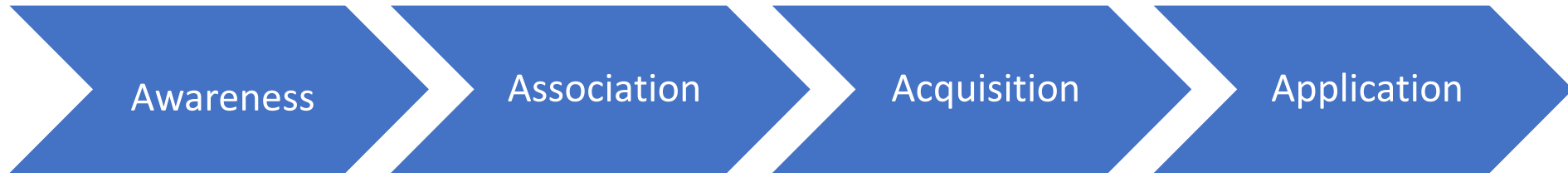
Thinktank Governance of Floating Cities



National Research Initiative "Floating Future"

"Luctor, Emergo et Supernato" (I struggle, emerge and float)

Olaf Waals, Rutger de Graaf, Perrille van der Plank, Jeroen Rijke, Maarten Filkema, Tjeerd Bouma, Klaas Timmermans, Luca van Duren, Sebastian Schreier, Robert van Laar, Bas Hoffland, Françoise Hooimeijer, Floris Boogaard, Margo van den Brink, Harry Geerlings and Ron van Duin



UN High level roundtable on floating cities



The need for a interdisciplinary approach

- Governance
 - Technology
 - Ecology
- Application in practice



International Training Module on Floating Development

Structure and themes lectures and workshop

Lectures (leading experts from WCFS2020)

- Socio-economic aspects and governance
 - Affordability and inclusive resilience
 - Social impact
 - Citizen led initiatives
 - Economic impact and business case
- Design and technology
 - Architecture
 - Maritime engineering
- Ecology and water quality
 - Monitoring of impacts
 - Ecological design

Interactive workshops

- Governance and Planning (Rutger de Graaf)
- Technology of floating and amphibious structures (Jelle Vedder and Jan Willem Roel)
- Food and Energy (Peter van Wingerden, Vicky Lin)



International Training Module on Floating Development

Objectives:

- Increase awareness and knowledge of floating urban development as an option to increase climate resilience among city policy makers, professionals and planners globally
- Strengthen international knowledge network for climate resilient floating developments

Platform: Digital

Duration: 1 Day

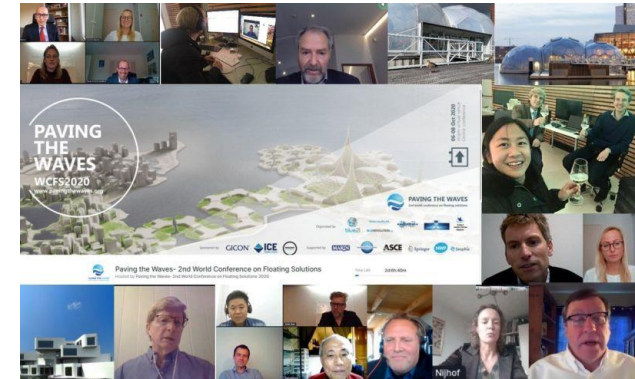
Participants: 15-30

Expression of interest: tbd



Resources

- Presentations **2nd World Conference on Floating Solutions** (WCFS2020) in Rotterdam
<https://www.pavingthewaves.org/>
- World's largest **open-source knowledge base** on floating urban development
<https://www.blue21.nl/about/knowledge-base/>
- **Space@Sea**: Horizon 2020 research program on large scale multi-use floating platforms, commissioned by European Commission
<https://spaceatsea-project.eu/>





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