

# How to create a transdisciplinary research project? Strategic delta planning project set-up



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## Transdisciplinary research (TR) = a team that works on (i),(ii),(iii) $\rightarrow$ (iv)

Poster's objective is to share our experiences of conducting TR research (upper part) and recommendations to keep it running (lower part of poster). Transdisciplinary research according to Pohl (2005) takes into account (a) the complexity of an issue, (b) science's and society's diverse perspectives on that issue, (c) involves non-scientists and members of different sicentific disciplines, and (d) aims for practically relevant knowledge that (e) can contribute to an improvement of the status quo.

Our project is part of the Urbanising Deltas of the World Program, funded by the Dutch Organisation for Scientific Research (NWO). Project runs from 2014 to 2019, has a budget of ~0.9 million EU.

Our project team consists of people working in acdemia (IHE Delft, Wageningen University, Delft University of Technology, Bangladesh University of Engineering Technology, Khulna University), applied research and environmental consultancy (WACC, CEGIS, Deltares, PBL, Bosch+Slabbers), and advocacy (IUCN Vietnam). ..

#### (i) On a real-world problem

**delta plans** to address these threats through strategic choices their role in enabling change and livelihoods? Our research project aims to better understand the planning. We study this in **Bangladesh, Vietnam and the** Netherlands.

## (ii) With an overarching

analytical perspectives employed by PhD and Postdoc researchers. making phases of agenda setting, plan formulation, implementation to study consent for a plan's

- 1) Actor coalitions
- 2) Innovations
- 3) Participatory planning tools The framework integrates theories from strategic spatial planning, technology, participatory tools.

#### (iii) In shared case studies

Bangladesh Delta Plan 2100, Mekong Delta Plan, the following cases are studied: -Re-opening of coastal barrier in

- -Innovations in the Mekong Delta (floating rice, room for the river,
- Scenarios in delta planning, and how this tool/approach travels from NL to VNM and BD.

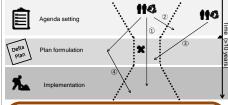
### (iv) Resulting in transdisciplinary output

insights' to our research, they co-author papers, and assist in data

field trips). -Professional work: project partners use and refine concepts and tools in their professional work, which is linked to new and on-going strategic delta planning processes in Bangladesh and

-Practical relevance: collect, disseminate and discuss with practitioners lessons learned on strategic delta planning and implementation.

## One overarching framework



· Helpful in developing the project proposal.

Come to a (more) shared understanding amongst project members, resulting in joint publication of Seijger et al.

Structure for cross-case comparison and

Special Issue (in prep).

# Which 'vehicles' keep the

TR-soul

alive?

## Engage and discuss with planning practitioners



- Project leaflet with initial lessons learned from research, tool workshops, joint visits.
- Dialogue with people actively involved in delta planning processes (scientists, policy makers, delta planners).
- Project members apply new understanding actively in delta planning (e.g. CEGIS, IUCN. WACC, Deltares, PBL, BS).



- Visit potential case studies together in NL, VNM, BD jointly. Have interviews in the field.
- Discussion among consortium members.
- Inspiration and motivation for new projects and research ideas.

• Fun!

### Training workshops



- Integrate delta planning tools of project partners (scenario development, design charrettes, delta envisioning) with project's concepts on strategic delta planning and implementation (Seijger et al., Phi et al.).
- South-South exchange.
- · Input for curriculum development.
- Stimulus to reflect on delta planning and

Phi et al. (2015): A framework to assess plan implementation maturity with an application to flood management in Vietnam, *Water International* 40:7.

-Pohl (2005): Transdisciplinary collaboration in

environmental research, *Futures* 37. Seijger et al. (2016): An analytical framework for strategic delta planning: negotiating consent for long-term sustainable delta development, Environmental Planning and Management 60:8.

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