
Co-designing Coasts using natural Channel-shoal dynamics (CoCoChannel)

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Recently, the CoCoChannel project was granted funding by NWO-ALW under the *Building with Nature* call, as part of the collaboration between NWO and Top consortium Knowledge and Innovation Delta technology (Topsector Water).

This project aims at developing the knowledge required for the co-design of Building-with-Nature (BwN) type interventions in barrier island - inlet systems. ‘Co-design’ stands for a collaborative design approach, in which the eventual design of a BwN solution is the product of the network of scientists, engineers and stakeholders, and its social dynamics. Therefore, this project not only aims at increasing the knowledge on the dynamics of inlet systems and the adjacent coast, but also on the role of natural systems understanding in the process of co-designing BwN solutions with stakeholders.

Three subprojects have been defined that link through nested scale aspects in the geoscience part of the problem, and through cross- and trans-disciplinary aspects in the co-design part of the study (Figure 1). These three subprojects are:

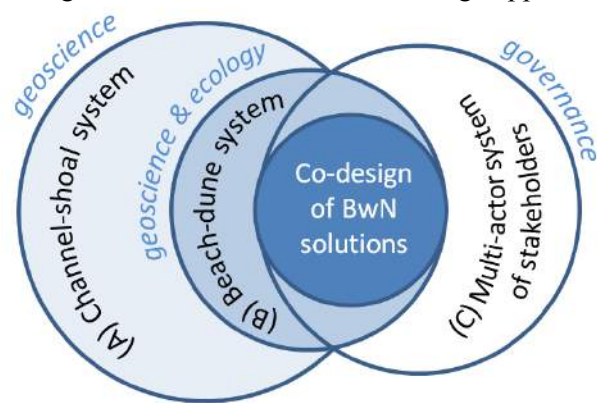


Figure 1. Graphic representation of the set-up of the CoCoChannel project.

- A - Morphodynamics of channel-shoal patterns on an ebbtidal delta (project leader Unesco-IHE)
- B - Linking Building-with-Nature type interventions in channel-shoal systems to sub-aerial impacts on the beach-dune system (project leader University of Twente)
- C - Co-designing nature-based interventions in Coastal Systems (project leader TUDelft)

The project involves 3 PhD positions in total, and the foreseen starting date is mid-2014.

