

Building with Nature and MapTable

Building with Nature:

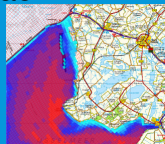
- EDD: Ecodynamic Development and Design
- Make use of dynamics of natural system in hydraulic engineering

Tools:

- MapTable: Digital design Table
- Geographically based, interactive communication tool
- Direct feedback



design



modelling



evaluate results

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MapTable in BwN

Activities:

- Software development
- More advanced modelling
- Hydromorphology
- Stakeholder involvement

Cases:

- Wave heights and safety
- Sand extraction and -suppletion
- Social analysis
- Ecology

MapTable
Interactive design and decision support

A MapTable is an interactive tool that can geographically visualise measure-effect relations during the design process. It is based on simple but robust models which allow for a quick evaluation of different interventions. It is also useful as a communication tool for involving stakeholders. A MapTable can be applied to a variety of things, some examples are given:

Current applications: 'Room for the River'	Building With Nature case 'Lake IJssel'	Future (Building With Nature) applications
Designing a side-channel next to the main channel	Demonstrating the effects of a wave screen (which is used to regulate water discharge)	Demonstrating e.g. ecological, social or environmental effects of interventions
Visualising water level fluctuations	Calculating the hydraulic impact of coastal defences	Assessing the impact of interventions
Detailed estimation of the effects on water levels during peak discharges		Multi-criteria analysis

Within Building with Nature some possible applications will be examined. This involves further technical development (refining) of the MapTable as well as experience in stakeholder involvement. MapTable is based on simple or empirical models. This is both an advantage (quick, interactive) as a downside (less accuracy). This can be tackled by using the results of a MapTable as a basis for more advanced modelling.

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