

Background

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CoDeS Philosophy

Relatively fast empirical relations, rapid assessment tools & simple models are not developed in a consistent, uniform & systematic manner, and are therefore often lacking:

- The integration of different disciplines
- Uniform and clear visualizations
- Proper validation and robustness
- Full interactivity and flexibility potential

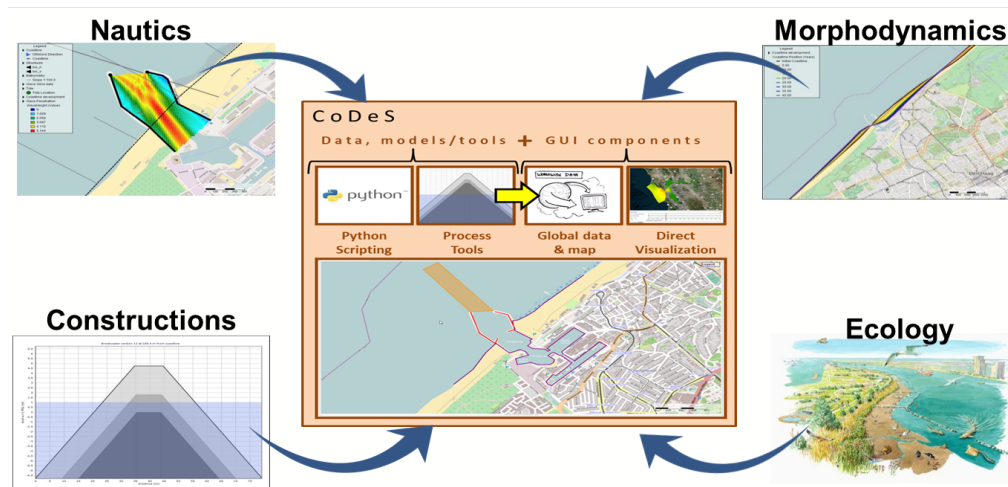
This is what we try to change with CoDeS!

CoDeS is

- A framework in which tools from different disciplines are implemented, with focus on:
 - Validation
 - Consistency
 - Discipline integration
 - Robustness
 - Interactivity
- A joint cooperation between [Deltares](#), [Witteveen+Bos](#) and [Royal HaskoningDHV](#).
- Developing an open community in which engineers can contribute to the framework

Why do we believe in CoDeS?

- It supports clients & stakeholders in early design phases of interventions in coastal systems
- Quick first order insights - in a range of disciplines - allows for realistic/optimal designs
- Allows for interactive communication of insights to clients and stakeholders (e.g. design sessions)
- Validation, consistency and robustness is crucial for gaining confidence in the result of basic tools



CoDeS TKI projects

The CoDeS tools are developed within the following TKI projects:

JIP CoDeS Pilot	2014 - 2015
JIP CoDeS 1.0	2015 - 2016
JIP CoDeS 2.0	2017 - 2019

The CoDeS tools were presented for an international audience at the International Conference on Coastal Engineering '18 (ICCE '18). The slides can be found [here](#), and provide an extensive background of CoDeS tools.