Partner information

Coordination:

Prof. Dr. Hans Matthias Schöniger, Technische Universität Braunschweig, Leichtweiß Institute for Hydraulic Engineering and Water Resources, Division of Hydrology, Water Management and Water Protection.

German Partners:

- ♦ Repository Safety Research Department, Global Research for Safety gGmbH (Köln)/ GRS
- ♦ OOWV Oldenburg-East-Frisian Water Board (Brake)/ OOWV
- ♦ Leibniz Institute for Applied Geophysics (Hannover)/ LIAG
- NLWKN Lower Saxony Water Management,
 Coastal Defense and Nature Conservation
 Agency (Aurich)/ NLWKN
- ♦ INSIGHT Geologische Softwaresysteme GmbH (Köln)/ INSIGHT
- ♦ GISCON Geoinformatik GmbH (Dortmund)/ GISCON

Partner information

International Partners in case studies:

- ♦ Buffalo City Metropolitan Municipality, Eastern Cape, South Africa
- ♦ Rhodes University, Grahamstown, South Africa
- Akdeniz University, Faculty of Engineering, Antalya, Turkey
- Yildiz Technical University, Faculty of Engineering, Istanbul, Turkey

Countries of case studies:

North-Eastern Brazil, North-Western Germany, Turkey (Antalya) and South Africa (Eastern Cape).

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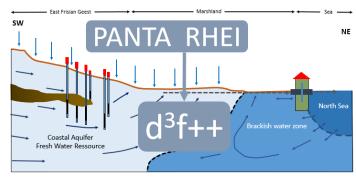


go-CAM
Implementing strategic
development goals in
coastal aquifer management

www.gocam.giscon.de

CAM dialogue platform

The online platform CAM (Coastal Aquifer Management) was developed in the framework of a joint research project (called go-CAM) to enable processing the outputs of hydro(geo)logical models using multi-criteria decision analysis techniques (MCDA) and evaluating/analyzing the processing results to strengthen transparency and objectivity in decision-making procedures among stakeholders in the water sector of coastal regions.



Our groundwater model d3f++ (distributed density-driven flow) and PANTA RHEI (deterministic semi distributed hydrological model).

The CAM platform can be divided into four levels:

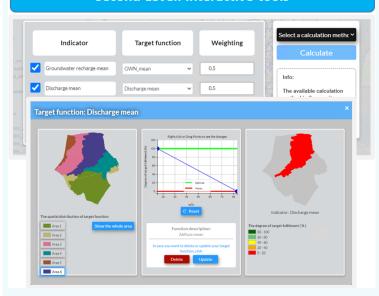
- 1. Data import of calculated water indicators from scenarios, objective functions, additional metadata.
- 2. Interactive selection, parameterization of the

CAM dialogue platform

objective function and weighting of the indicators. The main challenge here was to integrate the interactive tools, which use multi criteria decision analysis techniques (MCDA) to evaluate data. One objective function can be assigned to each selected indicator. But, these objective functions could be also regionally distributed.

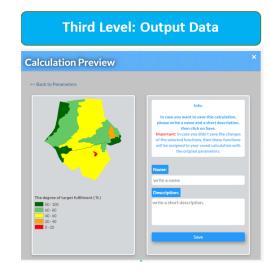
First Level: Uploading Data

Second Level: Interactive tools



3. Providing an output (calculation result) after using the input indicators from level 1 and the selected options from level 2. The calculation results can be previewed and saved for later analysis.

CAM dialogue platform



4. Dialog process: Interactive comparison of results by participating groups of actors.

Fourth Level: Comparing results 80-CAM Comparing results Calculation for User: admin Calculation for User: admin The degree of target infilment! (%) 20-40 40

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