

# Scenario Development in IWRM: coping with future challenges in Bangladesh

## Scenario Development:

Scenario analysis is a method for dealing with uncertainties, and aims to assess possible impacts and to design policies (Carter et al, 2007). A scenario is not a forecast or prediction; rather it is a plausible story about the future. There can be normative and explorative scenarios. Both types identify the major driving forces and uncertainties and evaluate possible consequences and vulnerabilities. Different strategies and decisions can be assessed for each scenario, which will give an indication of the 'robustness' of different actions. Robust actions perform well under a wide variety of possible futures or are flexible to adapt in case the future runs out differently than foreseen. In this respect, in IWRM in Bangladesh, scenario development can thus provide valuable insights regarding complex planning issues on groundwater and surface water use, river flooding and morphology, land use issues, salinity intrusion, water and food security etc.



BUET/DWRE – BAU/DIWM – WARPO – and CEGIS work together with their partners on scenario development through the NICHE155 project. The overall objective of the project is *“To deliver capacitated graduates, researchers and policy staff on integrated water resources management to contribute / support the realisation of the delta plan in order to cope with future challenges in Bangladesh”*. This entails, among others, to strengthen the collaboration between and the capacity of the four organizations DWRE at BUET, DIWM at the BAU, CEGIS and WARPO; and to improve the quality of education, research, dissemination and policy formulation in scenario development relevant to IWRM and climate issues.”

## Project Summary:

Related to scenario development in IWRM in Bangladesh:

- Curriculum development
- Collaborative research
- Staff development
- Infrastructure
- Modelling capacity
- Dissemination
- Gender analysis
- Labour market linkage

**Duration:** March 2013 – Feb 2017

**Fund:** 2.5 million Euro, Netherlands Government through NUFFIC

*(Please turn over for a schematic overview of the project)*



UNESCO-IHE  
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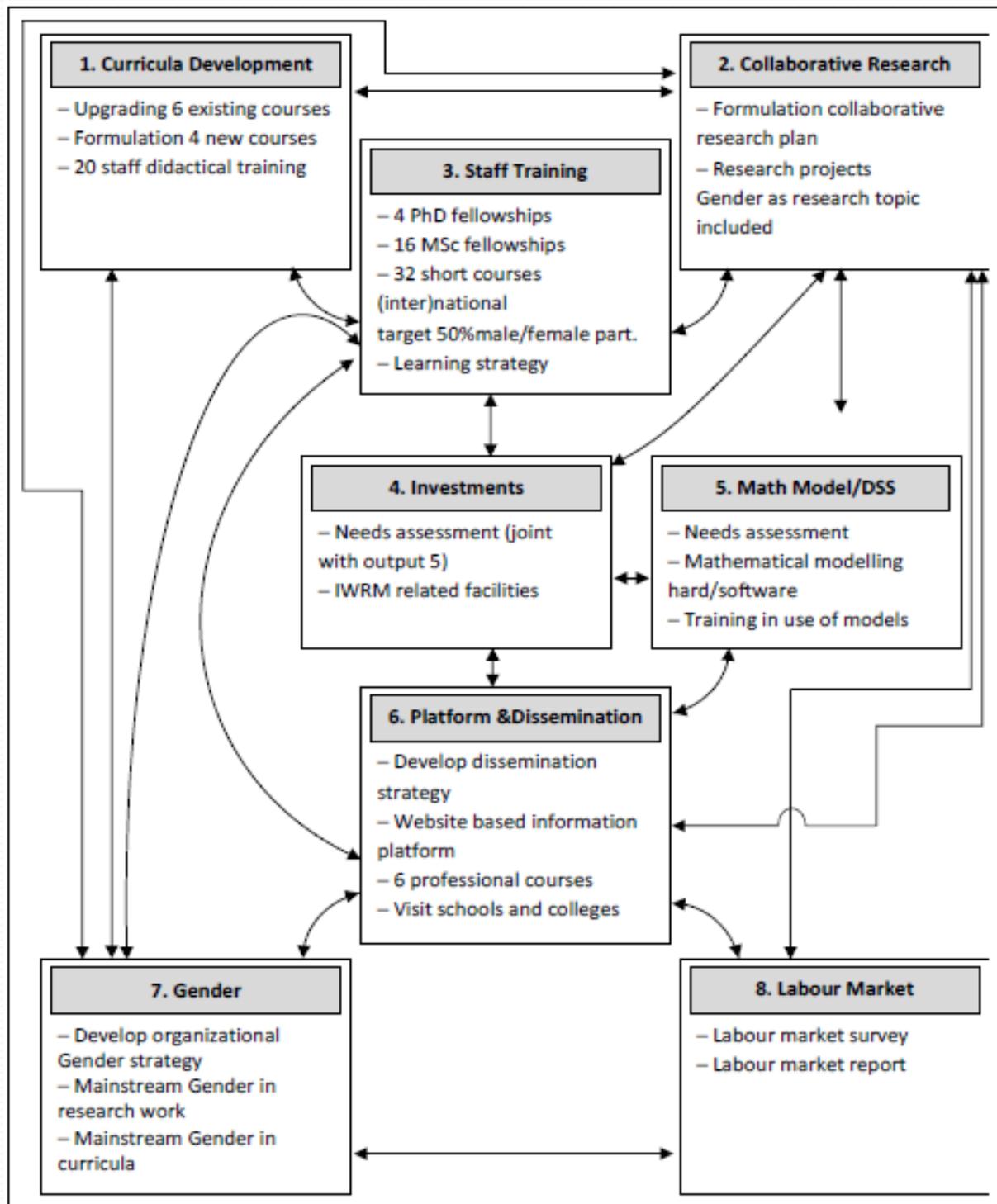
WAGENINGEN UR  
For quality of life



পানি সম্পদ পরিকল্পনা সংস্থা



Deltares  
Enabling Delta Life



Schematic overview of the project  
Scenario development in IWRM (NICHE/BGD/155)