Deltares

Enabling Delta Life

Support of the UNISDR Scientific and Technical Partnership and the implementation of the Sendai Framework

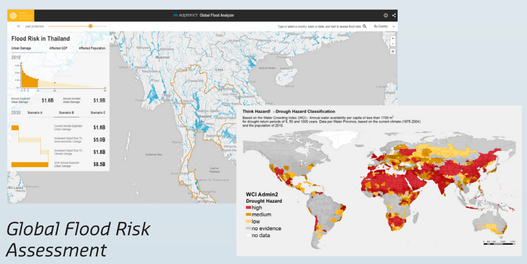
INTRODUCTION

Deltares' mission is to develop and apply top level expertise in the area of water, subsurface and infrastructure for people, planet and prosperity. With this, Deltares supports public authorities, private parties and society in their operations and ambitions, related to sustainable development of delta areas, and to manage their risks and build resilience. Deltares develops models, software and tools that support decision makers in conducting multi-hazard risk modelling, mapping and assessments, policy analysis and planning, and generating real-time flood forecasts and warnings from global to local scales. Our facilities include the interactive Data Research Laboratory – iD-Lab, which hosts information systems and enable our experts to rapidly setup models in response to possible threats to support decision makers. Deltares will promote the further development of solution driven research and scientific evidence to support the implementation of the Sendai framework and the UNISDR Science and Technology Roadmap.

WORKING ON DISASTER RISK REDUCTION

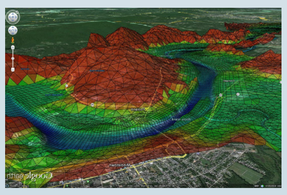
Sendai framework priority areas for action

Understanding disaster risk



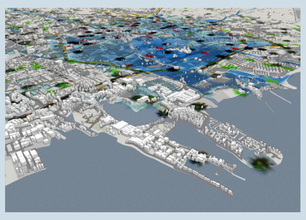
Global Flood Risk Assessment

ThinkHazard! risk assessment

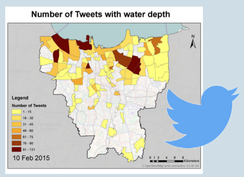


3D risk modelling and mapping

Serious gaming technology



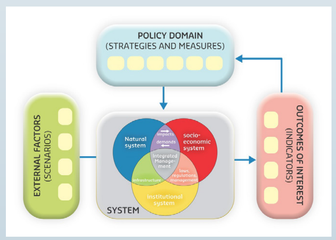
Understanding the cascading effects on critical infrastructure



Using Twitter to generate flood maps

Community Risk Assessment

Strengthen disaster risk governance to manage disaster risk



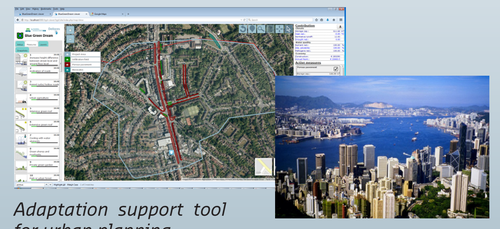
Policy analysis, institutional and stakeholder analysis

Delta and Master Planning using a participatory planning process

Early Warning Strategy developing workshop in Bangladesh

Sustainable delta game on climate adaptation strategies

Investing in DRR for resilience

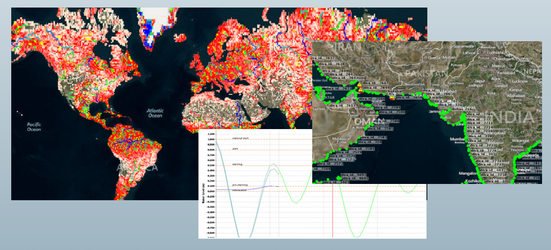


Adaptation support tool for urban planning

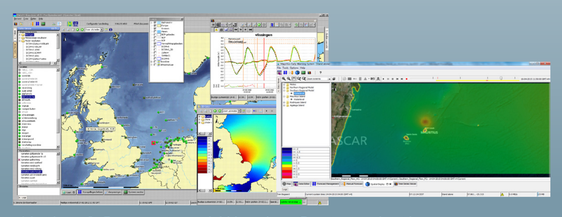
iD-Lab supporting disaster preparedness and response

Delft software days open for students and experts

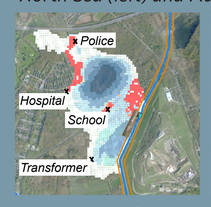
Enhancing disaster preparedness for effective response and build back better



Global Flood Forecasting and Storm Surge Information Systems



National Forecast and Warning Systems in the North Sea (left) and Mauritius (right)



Impact based fore-casting and warning

Mobile Services for Flood Early Warning in Bangladesh

Supporting Dutch Disaster Response (DRR) mission in the Philippians

SUPPORTING THE IMPLEMENTATION OF THE UNISDR SCIENCE AND TECHNOLOGY ROADMAP

- Develop and apply disaster risk assessment models and tools from global to local levels.
- Develop standards and good practices for risk assessment.
- Promote community engagement in risk data collection.
- Partner in multi-disciplinary and multi-stakeholder research on DRR.

- Support stakeholders to adopt and implement national and local DRR strategies and plans across timescales
- Provide technical support to the Dutch Government in the intergovernmental process and Sendai implementation, monitoring and review.

- Promote the mainstreaming of disaster risk assessments and mapping into land-use planning and other policy development
- Promote collaboration with the private sector.
- Support young scientists in DRR with applied research projects and studies.
- Promote the use of open-data software and tools.

- Develop, maintain and innovate technology for people- centred, low cost early warning systems and emergency communication mechanisms.
- Support disaster response efforts with knowledge and guidance.

Poster Cumiskey, Lydia 16RS 01

www.deltares.nl

Get in touch with us:
Lydia.Cumiskey@deltares.nl
Cees.vandeGuchte@deltares.nl

Address
P.O. Box 177
2600 MH Delft, The Netherlands