



United Nations
Educational, Scientific and
Cultural Organization



International
Hydrological
Programme

Addressing water related disasters: IHP programmes and activities

Abou Amani

Hydrological Systems and Water Scarcity Section

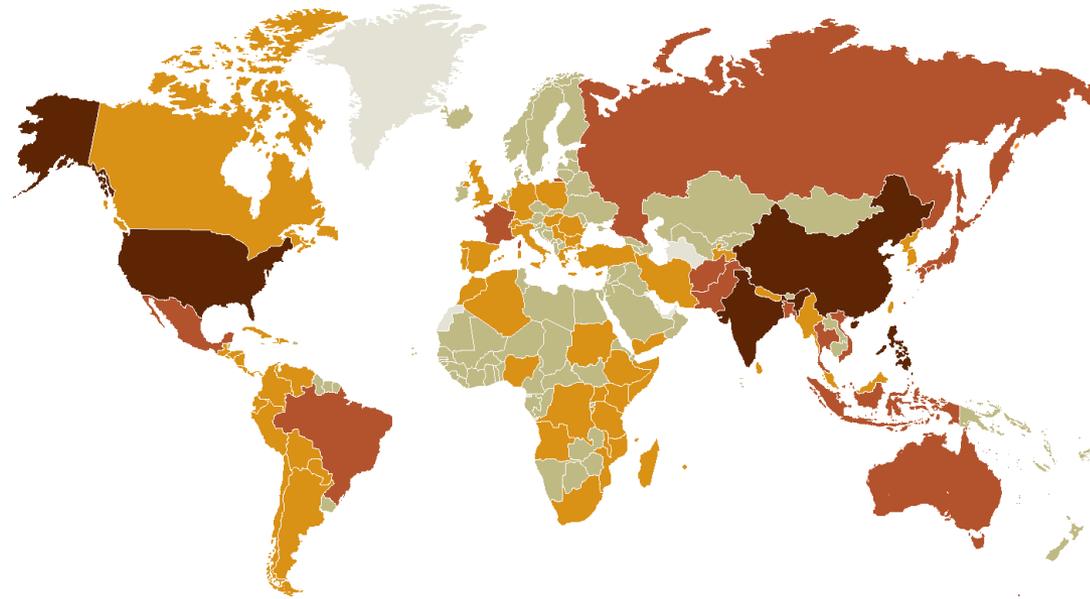
UNESCO

International Hydrological Programme (IHP)

Number of weather-related disasters reported per country (1995-2015)

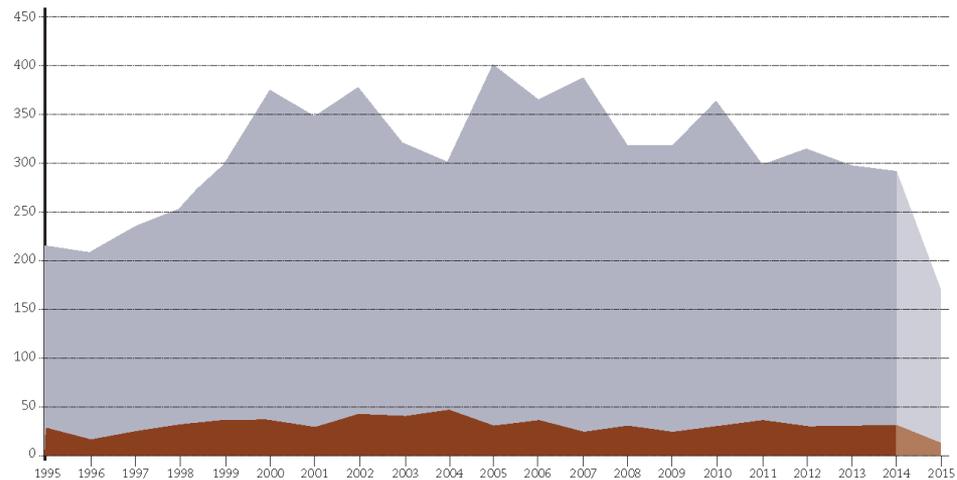
Number of hydro-climato-meteorological disasters

- 1-25
- 26-69
- 70-163
- 164-472



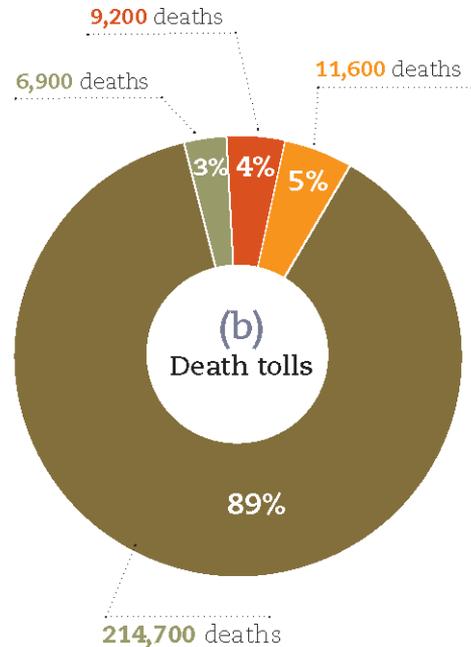
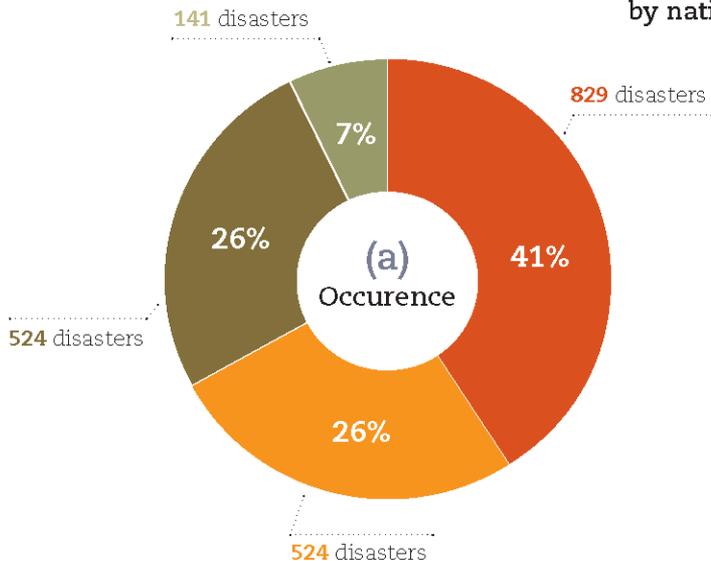
Trends in the number of disasters by major category (weather-related & geophysical 1995-2015)

- Geophysical
- Weather-related disasters



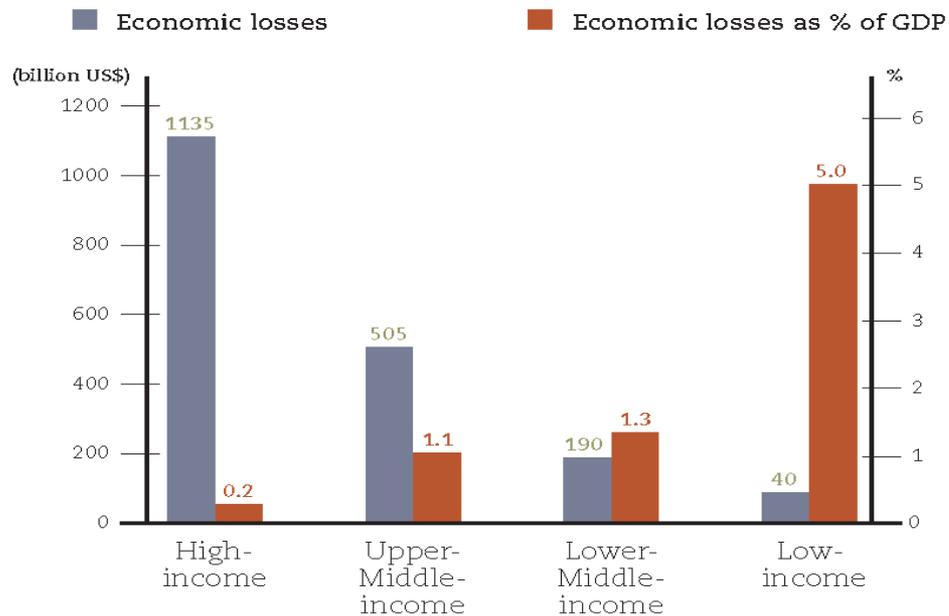
Disasters affect us differently

Occurrence (a) and death tolls (b) for storms (1995-2015) broken down by national income bracket



- High-income
- Upper-Middle-income
- Lower-Middle-income
- Low-income

Economic losses in absolute values and as a percentage of GDP from weather-related disasters (1995-2015)



Floods and droughts in Namibia

Battling with the devastating droughts 2013

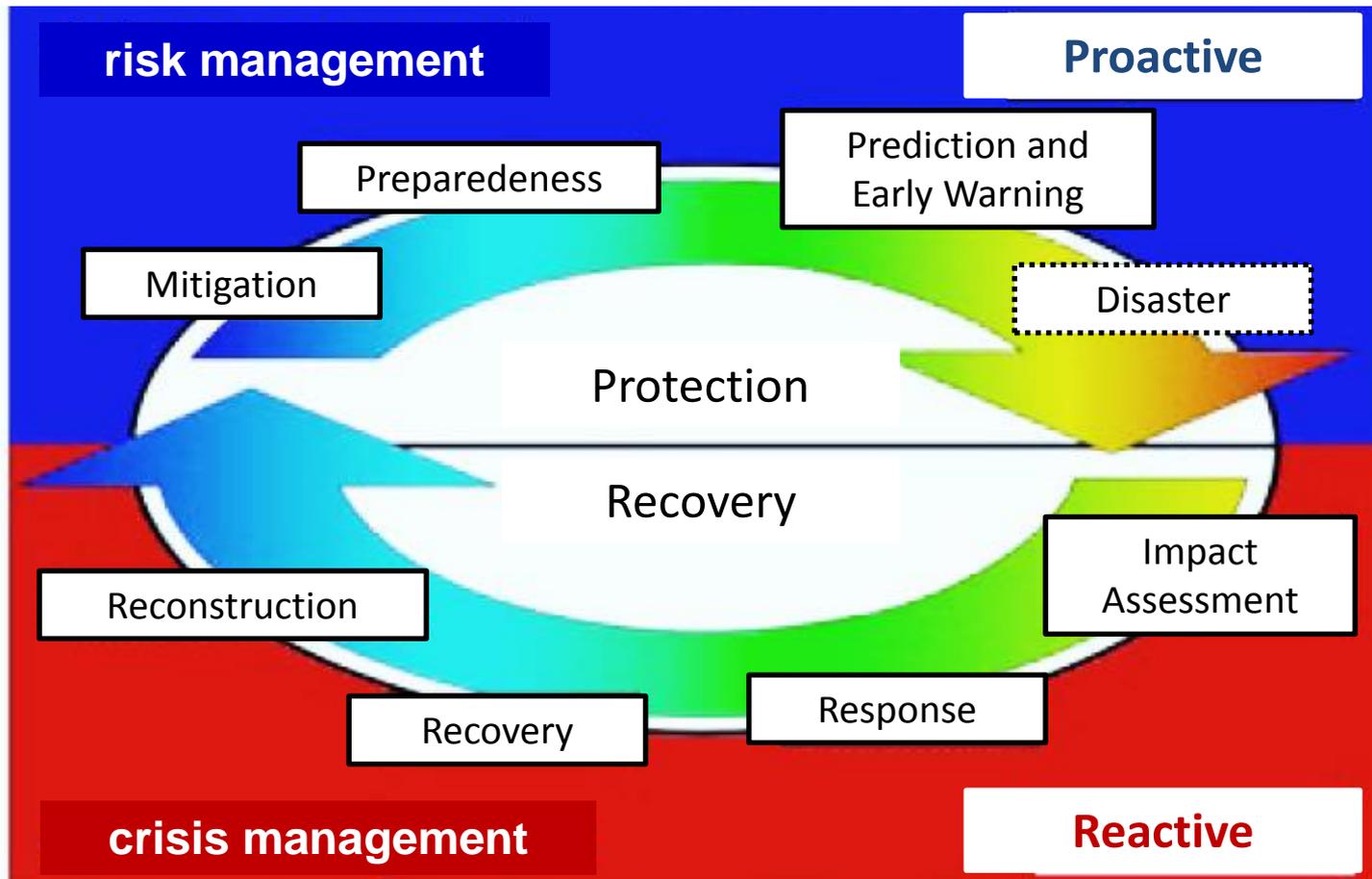


Battling with the devastating floods 2011



Risk Management vs. Crisis Management

Risk management increases coping capacity, builds resilience



Crisis management treats the symptoms, not the causes

HOW TO DECREASE DISASTER RISK?

Natural hazards can't be stopped but we can decrease our vulnerability and increase our capacity to cope

- Prevention/Preparedness
- Prediction
- Protection



$$\text{Risk} = \frac{\text{Hazard} \times \text{Vulnerability}}{\text{Capacity to cope}}$$



International Flood Initiative (IFI)

INTERNATIONAL FLOOD INITIATIVE

UNESCO • WMO • UNU • ISDR



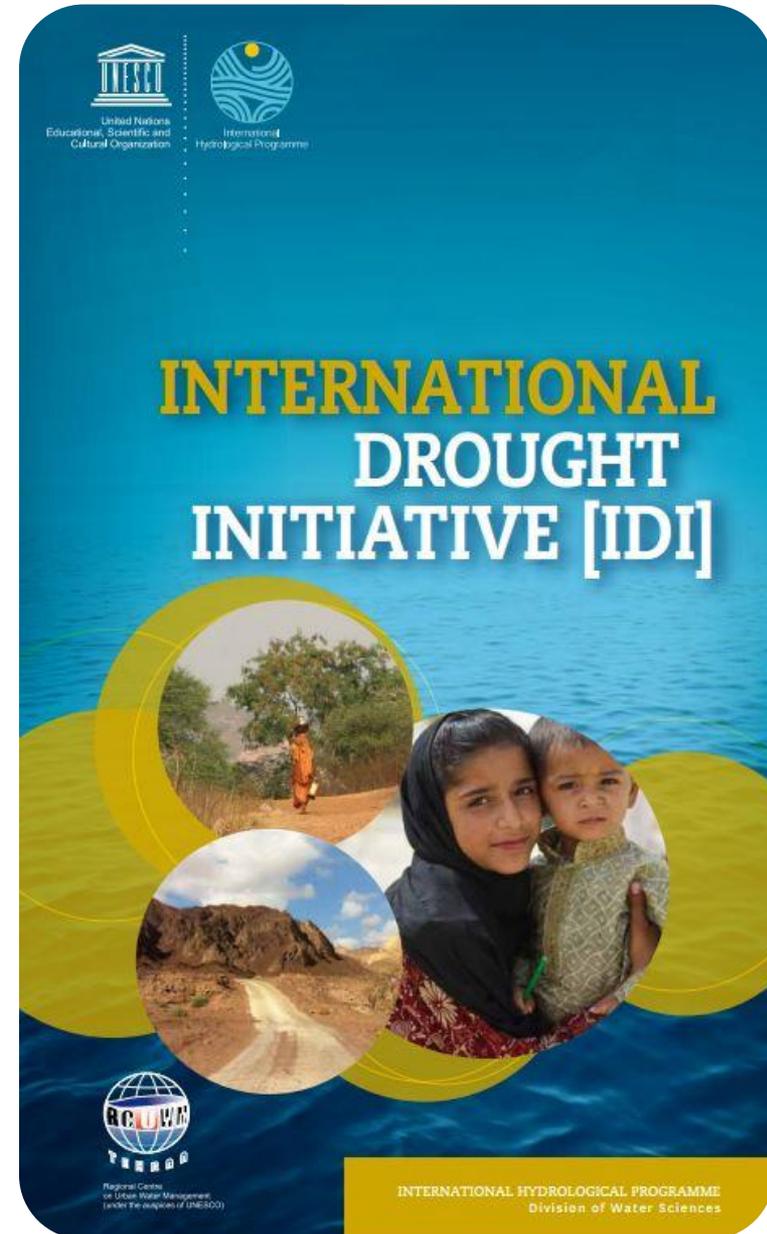
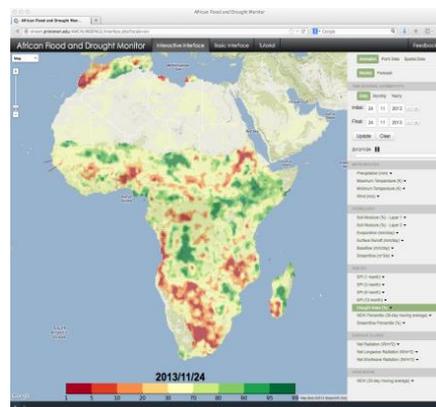
- Develops capacity building to better understand and respond to floods hazards while taking advantage of their benefits
- Focus on research, information networking, education and training to empower communities



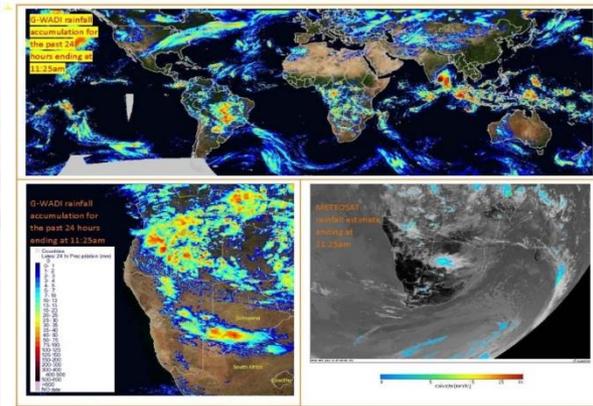
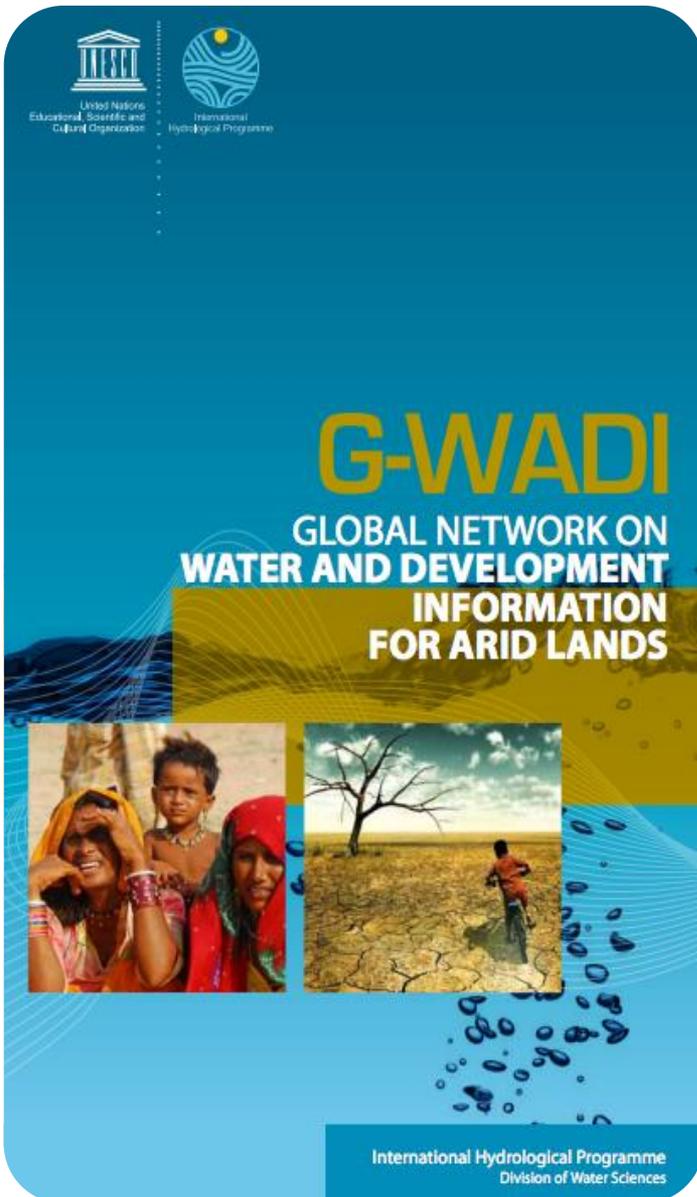
International Drought Initiative (IDI)

Platform of global networking and knowledge sharing between international entities:

- Surveys drought management;
- collects information;
- helps affected countries;
- develops capacity building;
- strengthens public participation and,
- promotes regional and international cooperation on drought issues.



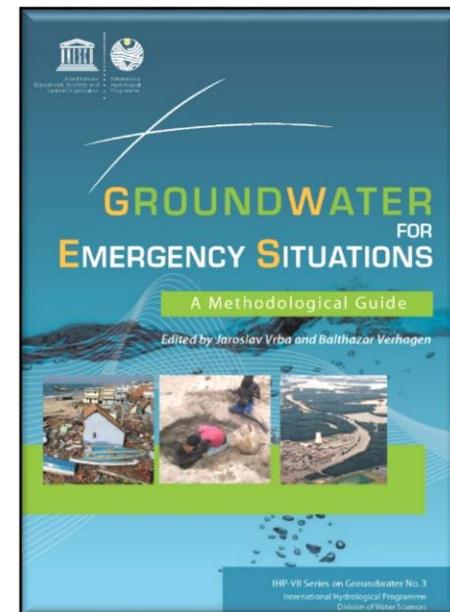
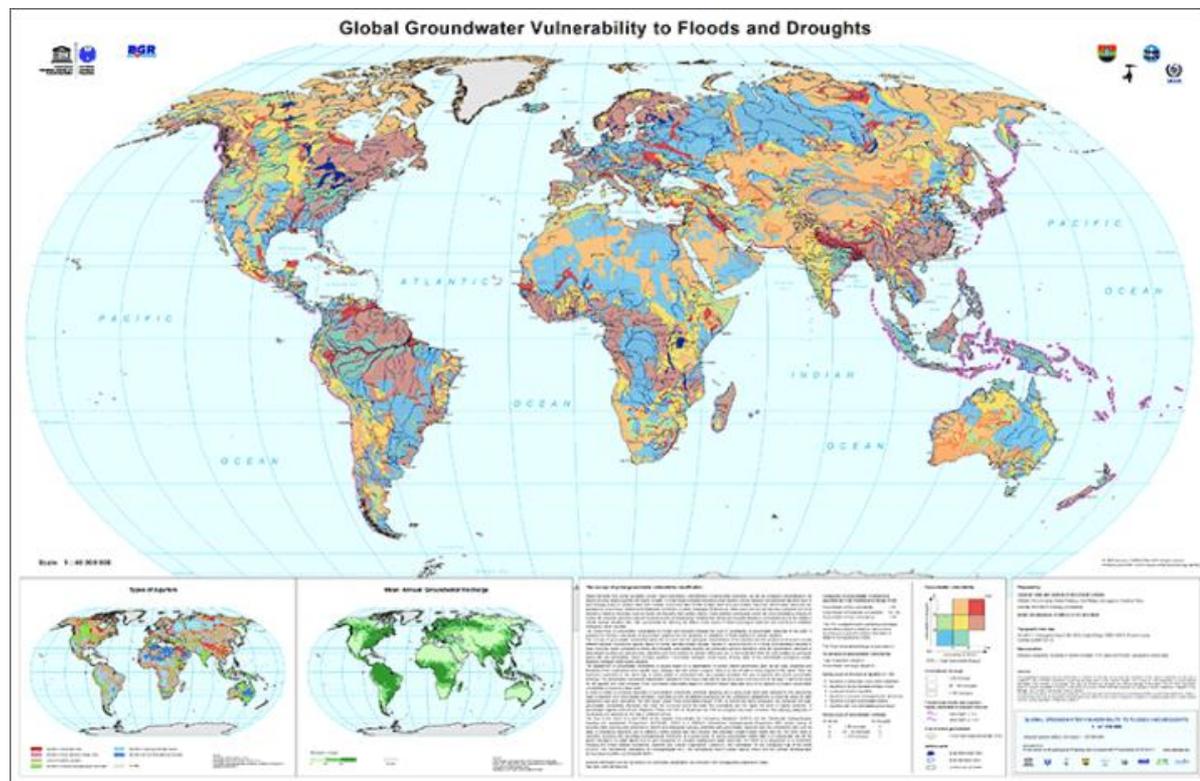
G-WADI



- Improved understanding of the characteristics of hydrological systems and water management needs in arid areas
- Capacity building of individuals and institutions
- Broad dissemination of information and data to the user community and the public
- Exchange of experience
- Promoting integrated basin management and the development and use of appropriate decision support tools.

Groundwater For Emergency Situations

- In emergency situation, provision of clean drinking water is priority .
- Groundwater resources need to be identified, prepared and managed in advance



IHP-VIII is focusing on 6 thematic areas to optimize water management and security

