

Water Cycle Integrator

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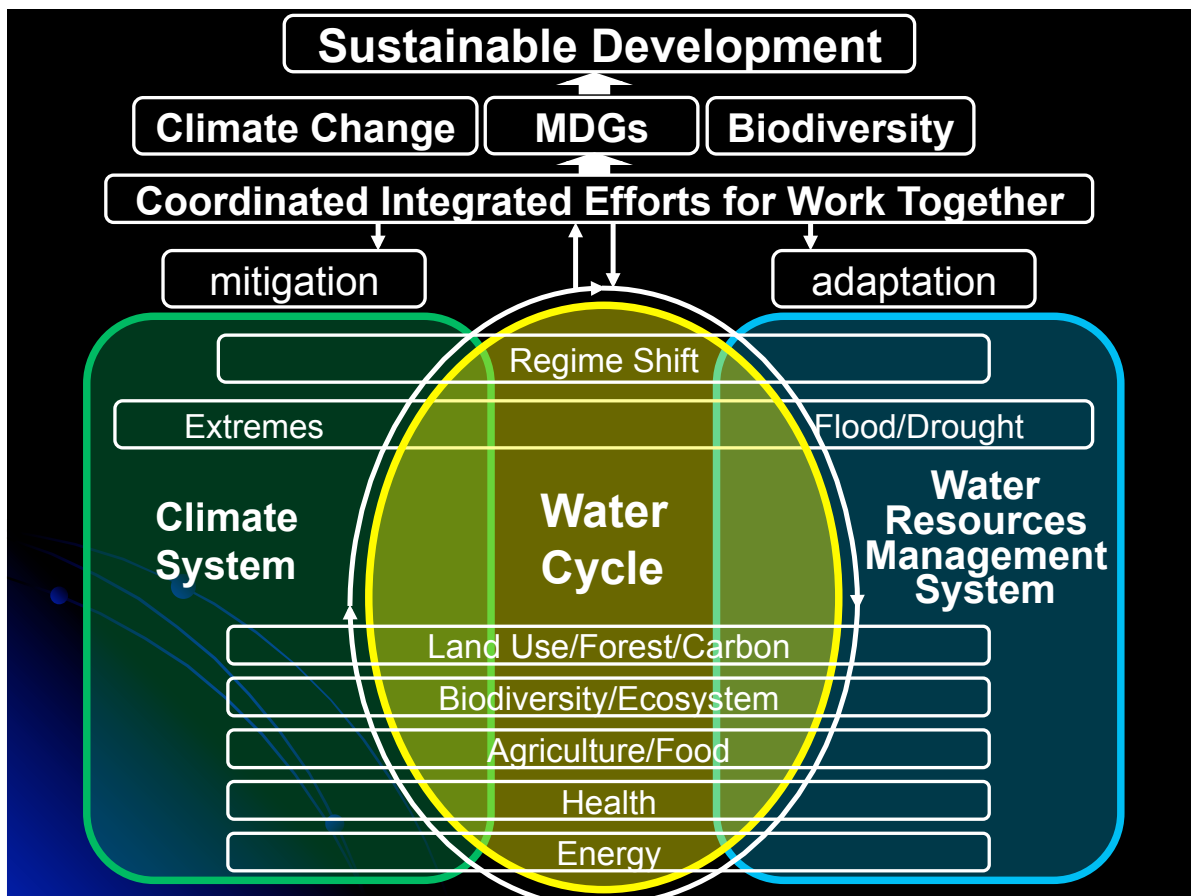
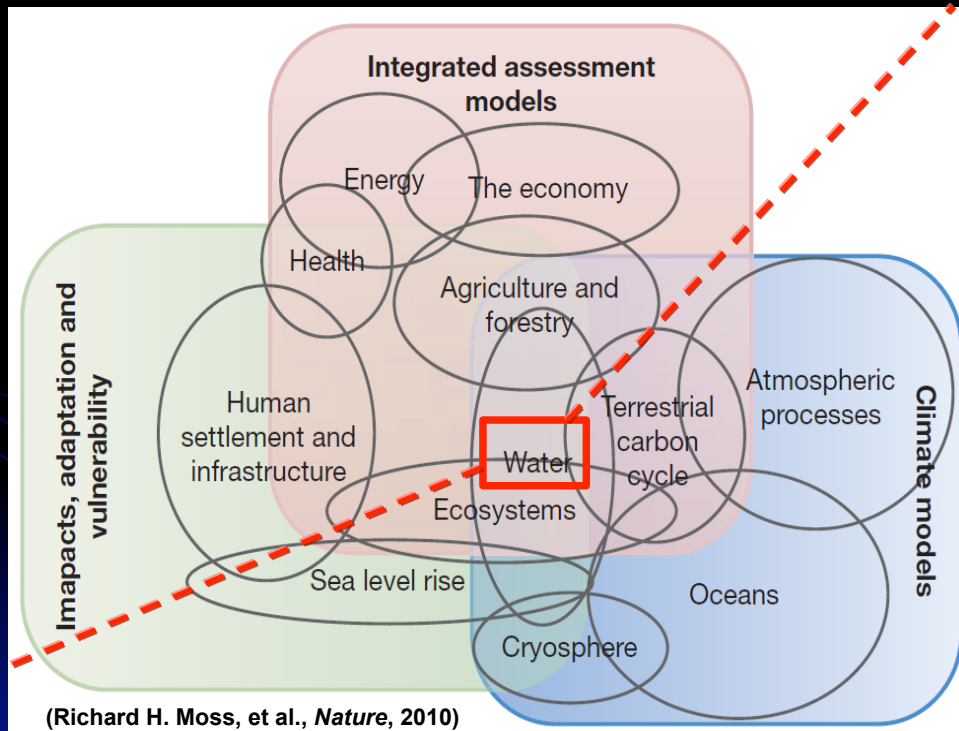


Growing Global and Regional Water Issues

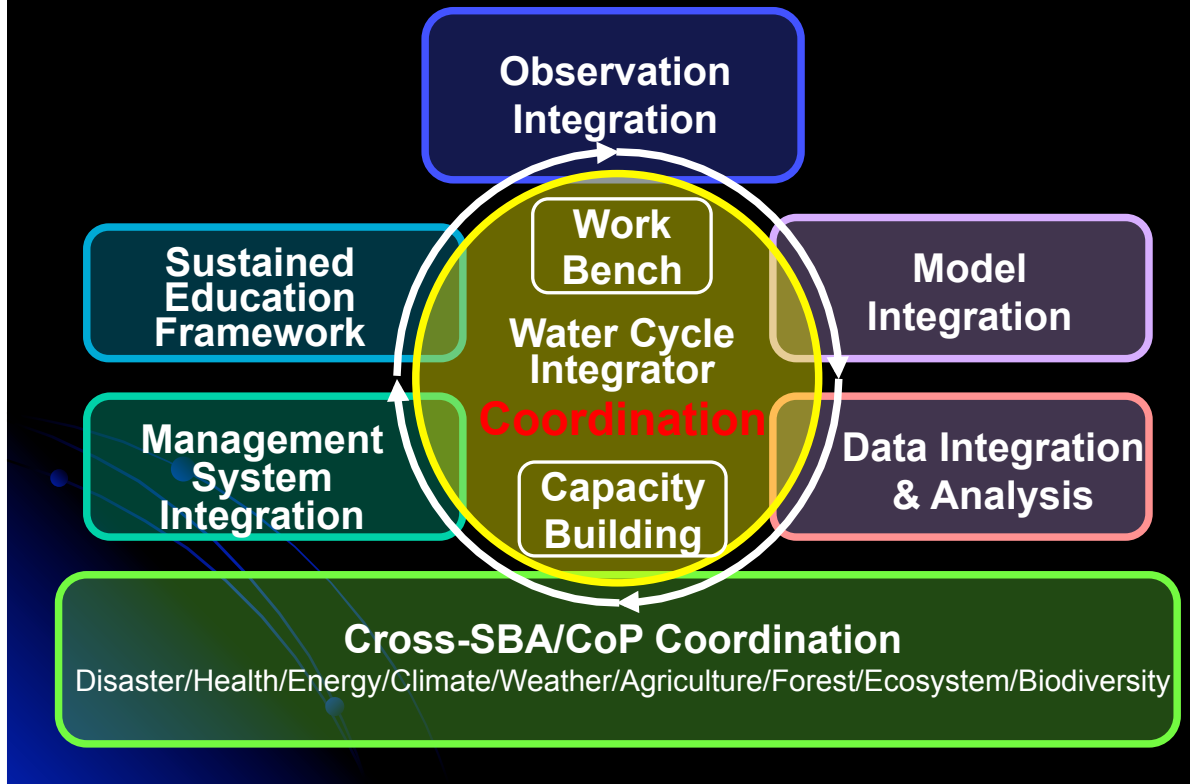
- “Many of the wars of the 20th century were about oil, but wars of the 21st century will be over water.”
by I. Serageldin, World Bank.
- “Managing risks to cope with variability and climate change” as one of its primary actions in dealing with governance, issued by International Conference on Freshwater in Bonn, 2001.
- Recent climate-related water catastrophes in Pakistan, Australia, Brazil and South Africa, serve to remind us that the most significant and harmful impacts of climate change will be experienced through alterations in the water cycle.

Climate change adds another formidable challenge, although the impacts are currently far from certain.

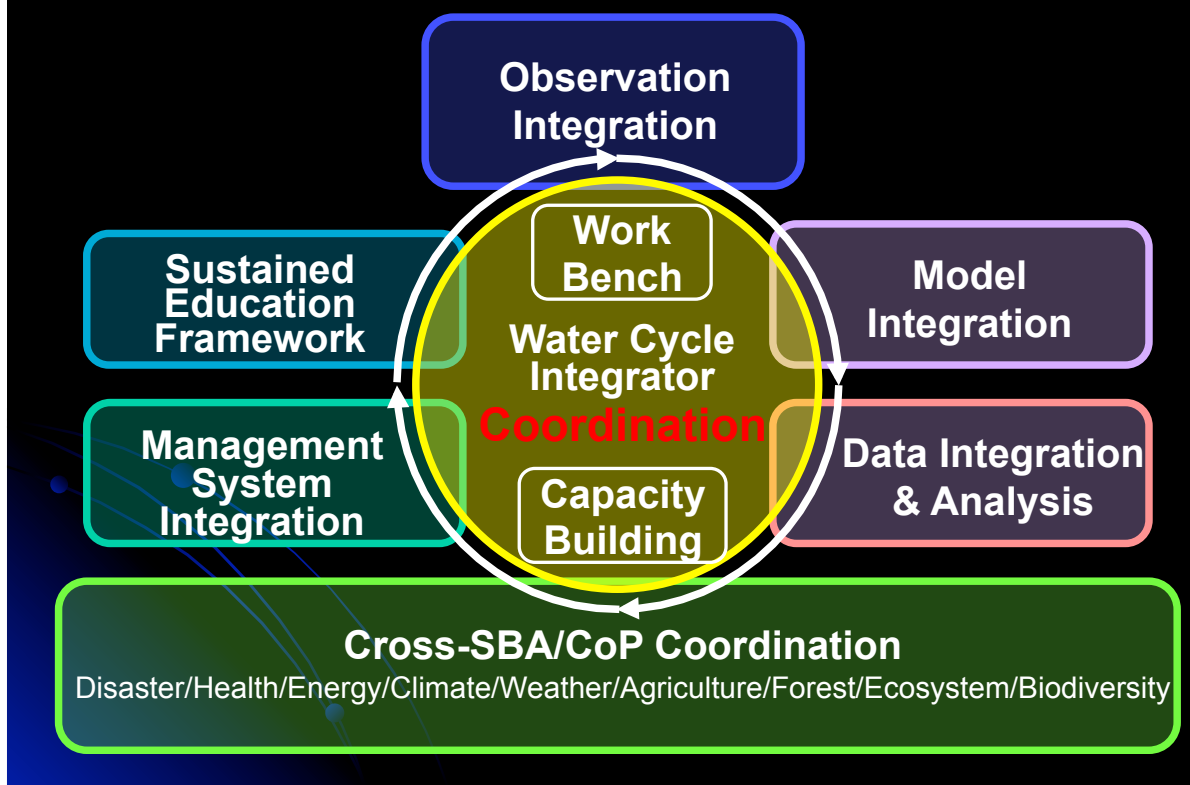
Water is a Key
bridging between climate processes and societal benefits.



Integrated & Coordinated Approach



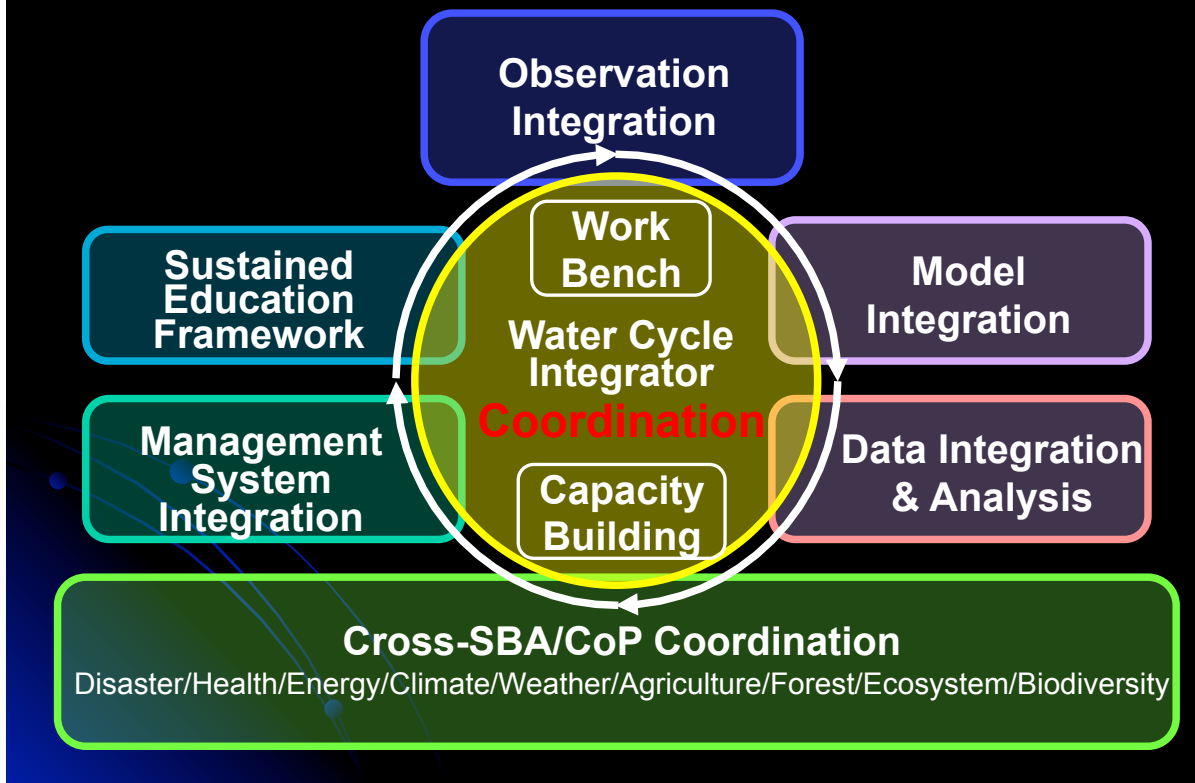
Integrated & Coordinated Approach

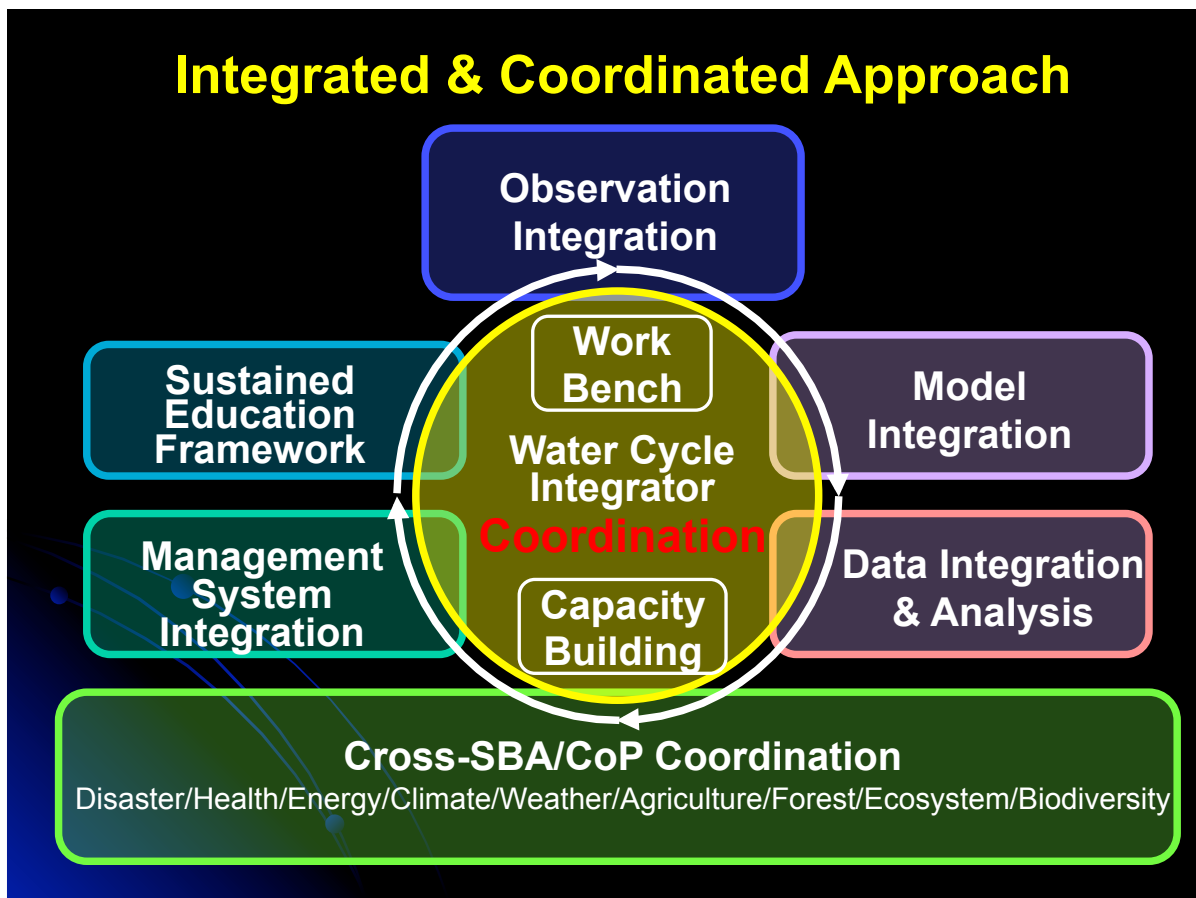
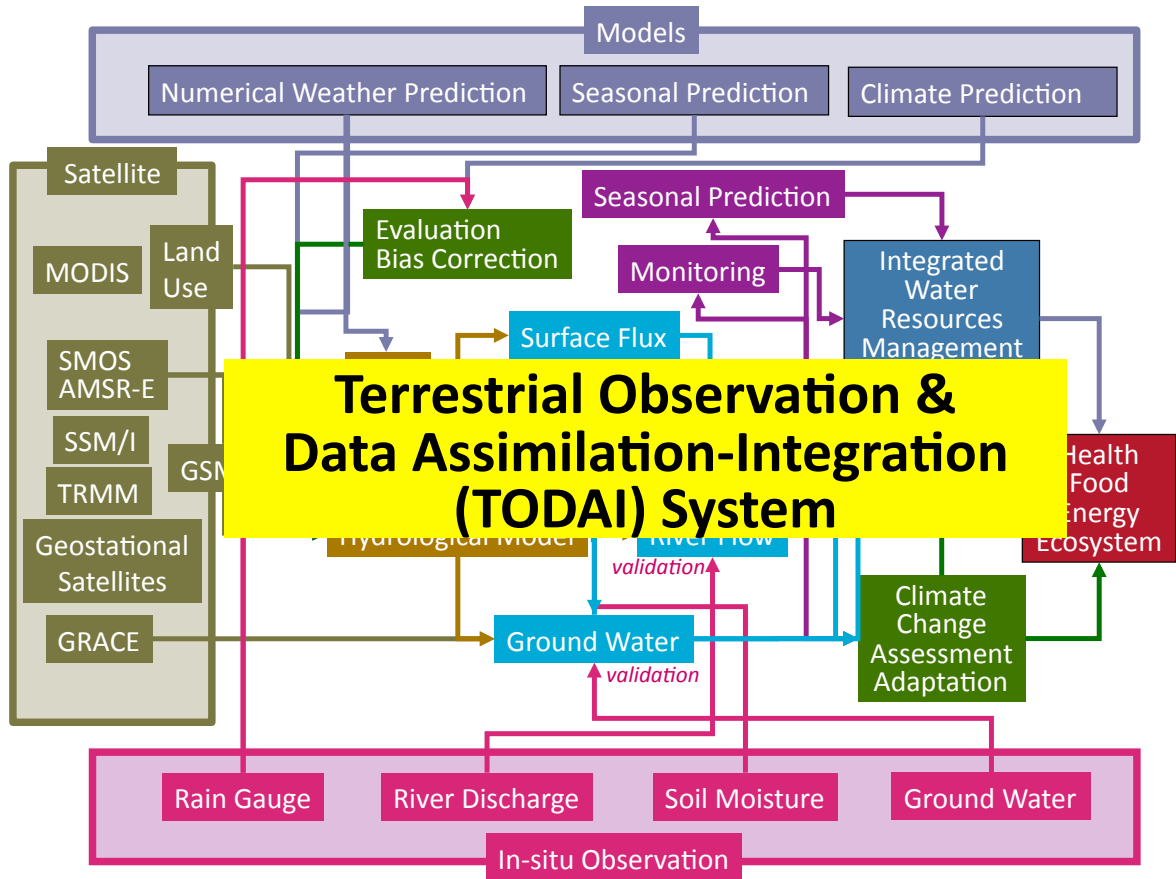


Satellite Observation Integration

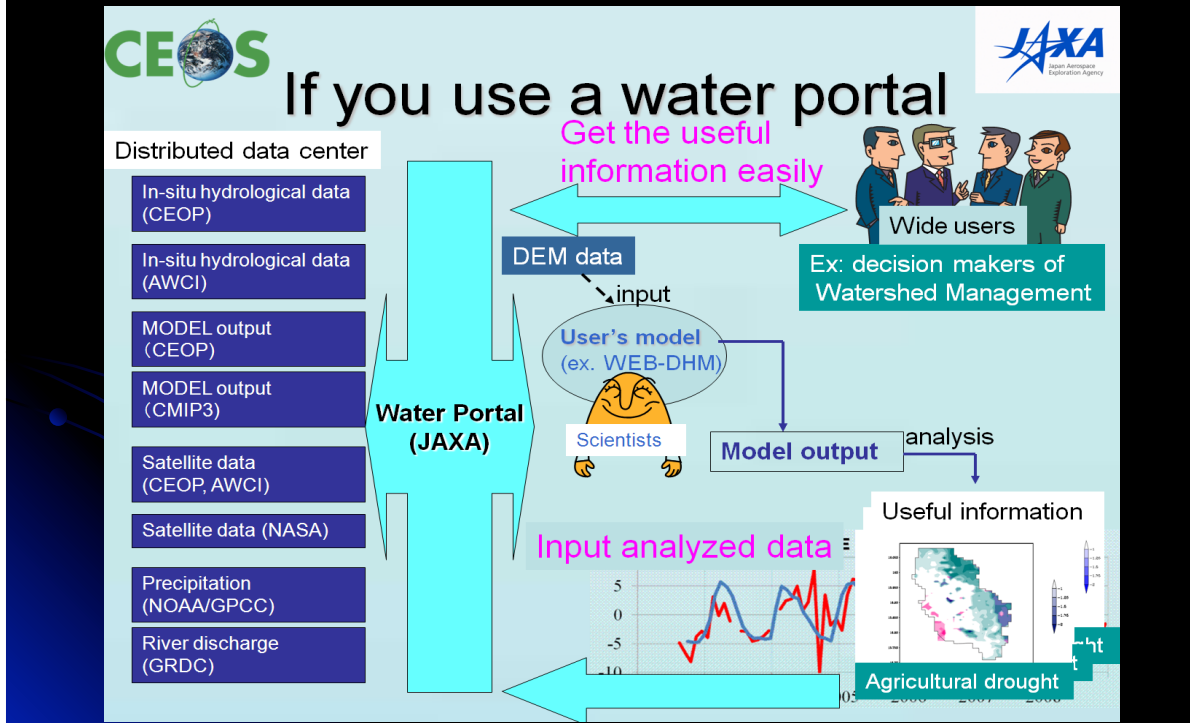


Integrated & Coordinated Approach

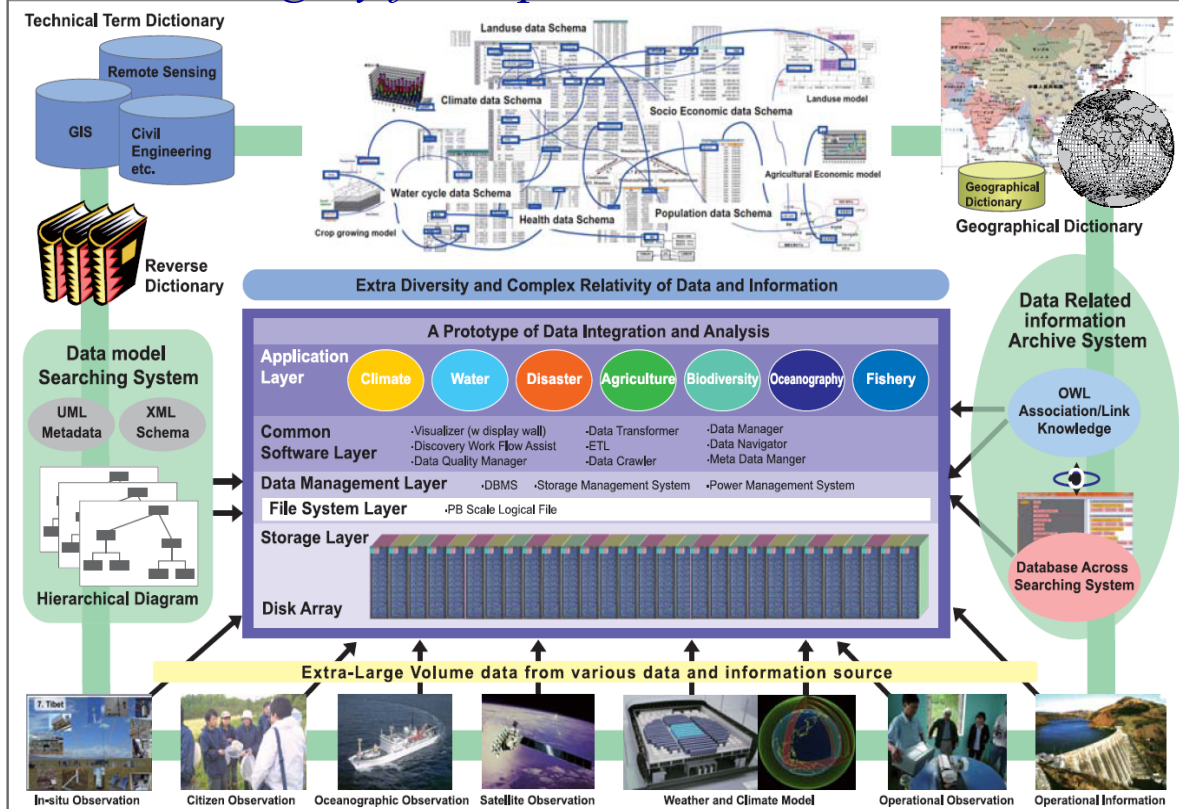


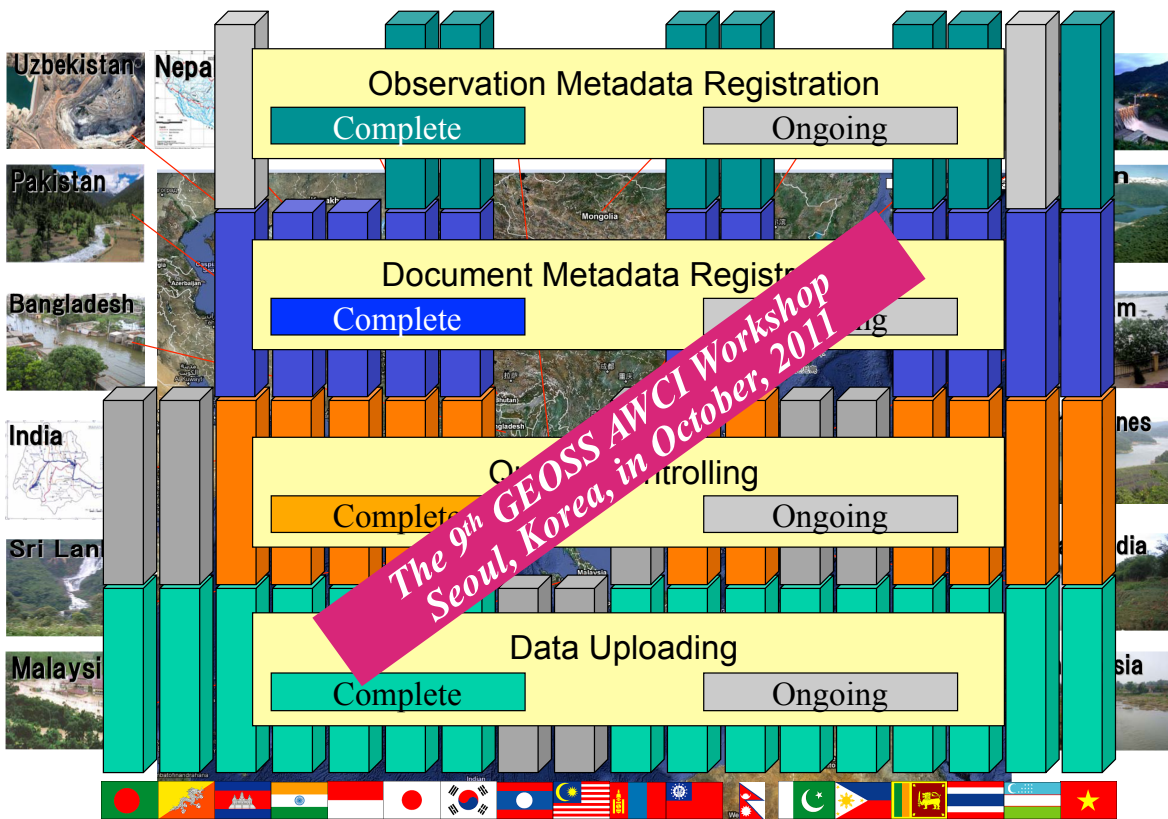


CEOS Leadership on Data Integration and Analysis: WGISS Water Community of Practice Portal



DIAS, a legacy for Japan's contributions to GEOSS



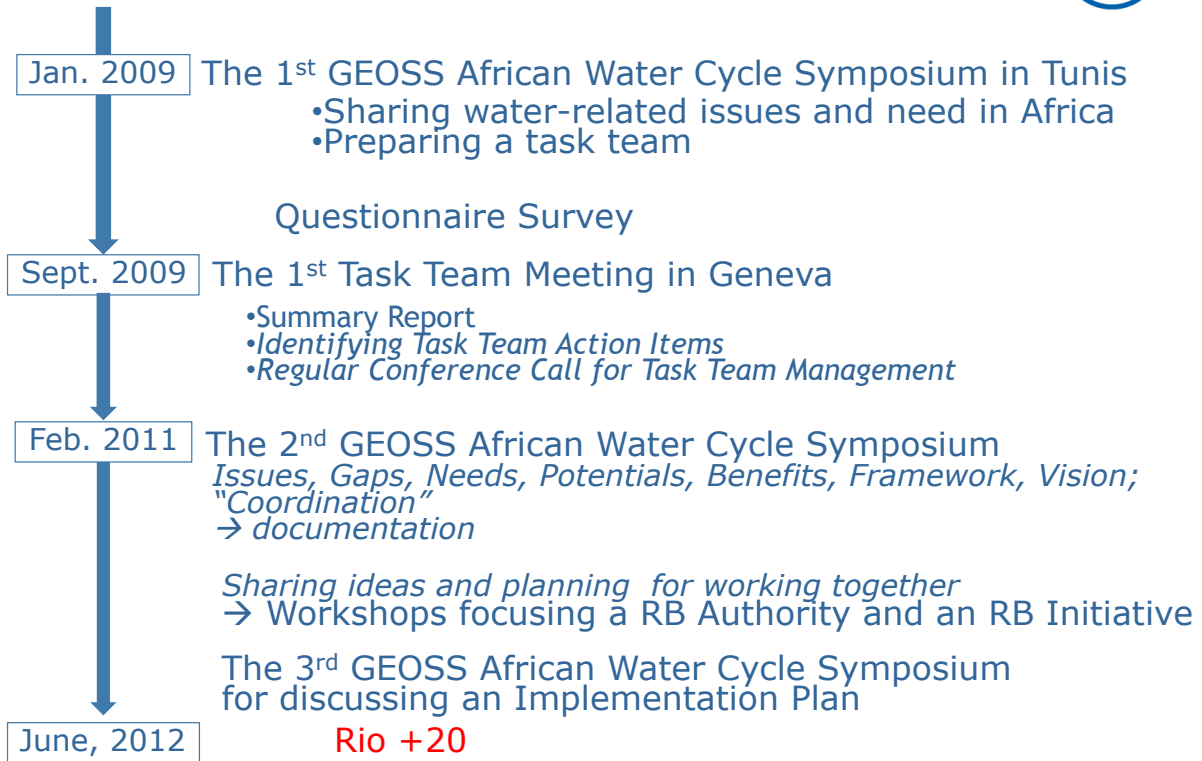


Google マップ

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ページ表示を拡大

インターネット



Ecosystem Degradation

Access to Water

Health

GEOSS African Water Cycle Coordination Initiative

Trans-boundary Rivers

Drought
Toggle: MORTALITY RISK, ECONOMIC RISK
DROUGHT Mortality Risk
Relative risk: High (Red), Medium (Yellow), Low (Blue)

Climate Change
Intensity

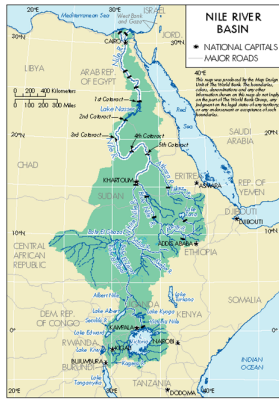
Flood

Flood

CLICK HERE FOR RISK MAP EXPLANATION

The Nile Basin

- Burundi
- D.R. Congo
- Egypt
- Eritrea
- Ethiopia
- Kenya
- Rwanda
- Sudan
- Tanzania
- Uganda



Characteristics

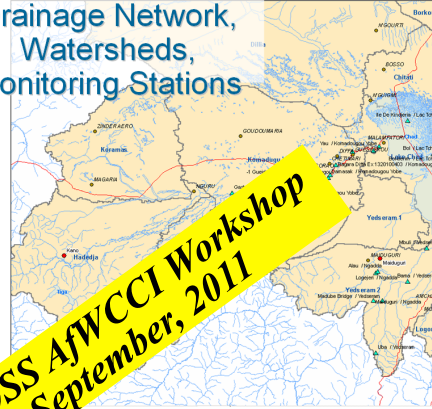
- Population 300 million,
- Poverty,
- Rapidly growing Population – stress on land
- Env. Degradation,

Opportunities

For win-win Cooperative development

(food production, energy, transport, industrial growth, envr. Conservation,...

Drainage Network, Watersheds, Monitoring Stations



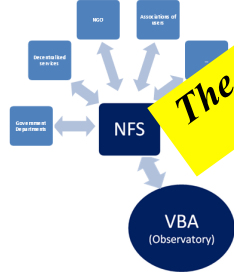
The 1st Workshop GEOSS AfWCCI Workshop Abuja, Nigeria, in September, 2011

COS PROJECT Achievements

OBSERVATORY = MEANINGFUL

Network of data collection and dissemination of information and useful data

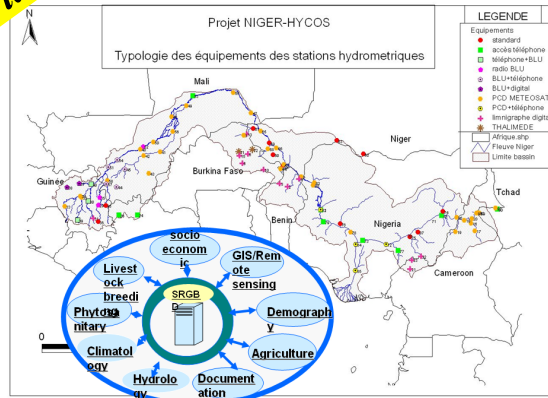
MoUs for exchange of:
• Information
• Data
• Results



Validation

Standardised scientific and technical tools

Human Resources



**DATA AND INFORMATION,
SCIENCE AND TECHNOLOGY,
COOPERATION FRAMEWORK,
AND PEOPLE
ARE NOW READY.**



STEP FORWARD!

Cambodia, December 2007