INTEGRATED WATER DATA MANAGEMENT IN CAMBODIA

Map of the main basins in Cambodia

River Basins within the Kingdom of Cambodia (Source: DHRRW)
Organizing data collection for the basin characterization

Study case of the Stung Sen basin

Stung Sen Pilot Project

- Basin characterisation:

- Description of the watershed, through collection of data and knowledge on the watershed about aquatic environment, stakeholders and uses.

- Then, highlight the interactions between aquatic environment, pressures, uses, aims, socio-economic development. Specify and prioritize the problems related to the management of water resources
Basin Characterisation – needed information

III. Demography and Socio-economic features
   III.1. Current population and evolution
   III.2. Socio-economic features

IV. Physical environment
   IV.1. Climate
   IV.2. Geology
   IV.3. Soil conditions
   IV.4. Topography
   IV.5. Land use and land cover

V. Natural and aquatic environment
   V.1. Surface water - Hydrology
   V.2. Surface water - Quality
   V.3. Groundwater
   V.4. Associated natural environments

PHASE II: WATER USES AND POLLUTION SOURCES
   VI. Agriculture and fisheries
   VII. Industries and mining
   VIII. Domestic Water
   IX. Solid waste
   X. Hydropower
   XI. Navigation and sand mining

PHASE III: NATURAL RISKS
   XII. Flood risks
   XIII. Droughts
   XIV. Erosion and alteration of river bed
Basin Characterisation – Next steps

- Stung Sen project - Phase 2

Program to gain knowledge – 2015: priorities
- General census of the basin population (local knowledge), improvement of socio-economic data
- Biodiversity, fauna and flora inventories
- Surface water quality
- Updated land cover
- Irrigation systems and agricultural practices (pollution)
- Inventory of industries and practices (pollution)
- Valorisation of the new hydrological and meteorological data

Catalogue of data sources used for inventory and description of data sources

http://37.187.128.205/catkh
Developing integrated water data management

Integrated data management for information production

- Radar images
- Ministry website
- Basin webmapping
- Bulletins
- Maps
- Reports
- Dashboard on water resources
- Modelling tools
- ...
Examples of some first outputs under development
Web mapping and bulletin from radar images