



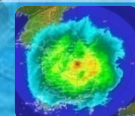
**7th World Water Forum
Water for Our Future**

**WMO RA-II WGH
Water Resources Assessment**

KIM HWIRIN

Han River Flood Control Office

Ministry of Land, Infrastructure and Transport



Report of the WGHS – RA-II (Asia)

Seoul, Republic of Korea

30 September to 2 October 2014

6.3 Water Resources Assessment

6.1.1 The overall objective of work on water resources assessment is to provide useful and accurate information to facilitate decision making by a variety of users. Improvements on capabilities to assess water resources will focus on two aspects. First is regarding the technological aspects of assessing the availability of basin-wide water resources, including climate predictions. The second is to assist in furthering the implementation of water resources assessment.

6.1.2 The main task of the work plan is to improve approaches and models of water resources assessment.

These will be used to analyse basin-wide water resource surpluses and deficits in real time and to consider climate prediction and climate change scenarios of potential future states.

Tools (test version) of dynamic water resources assessment will be applied for a demonstration basin and will be expanded to member countries.

Report of the WGHS – RA-II (Asia) Seoul, Republic of Korea 30 September to 2 October 2014

The information system, such as database and metadata catalogues of water availability, will be built to facilitate the provision of the related information to users. Based on results from pilot tests, guidance will be developed in the fields of data collection, models and methods of water resource assessment, and knowledge based on adaption to the changes in water availability.

Training courses and workshops will be conducted for capacity improvement of the members of RA II.

6.1.3 To expand the abilities of the water resources assessment approaches and their application, it is desirable for the WGHS members to apply the tools in their countries and provide feedback to the theme leader.

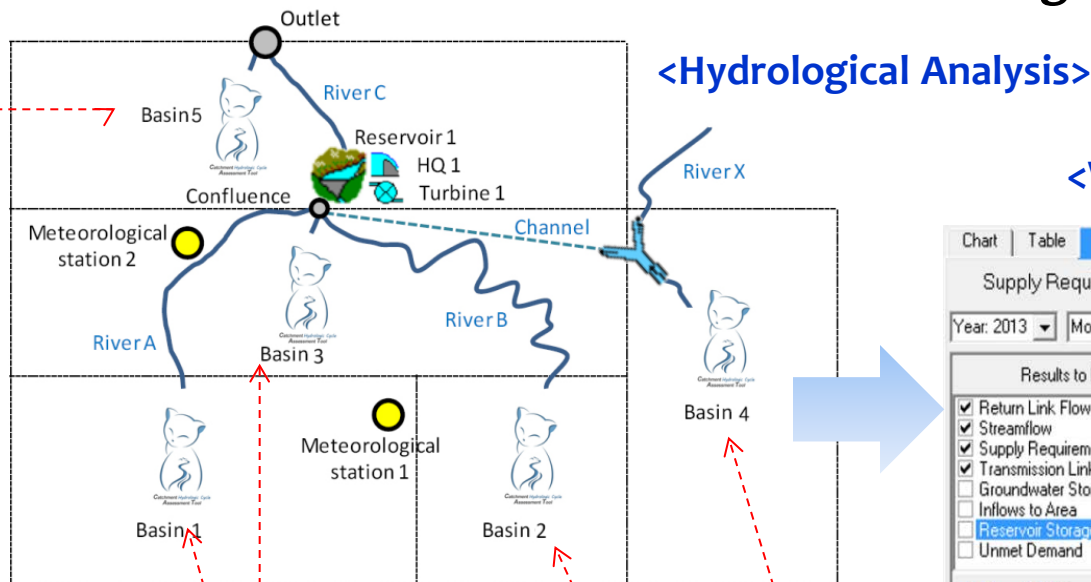


WORKPLAN: Water Resource Assessment

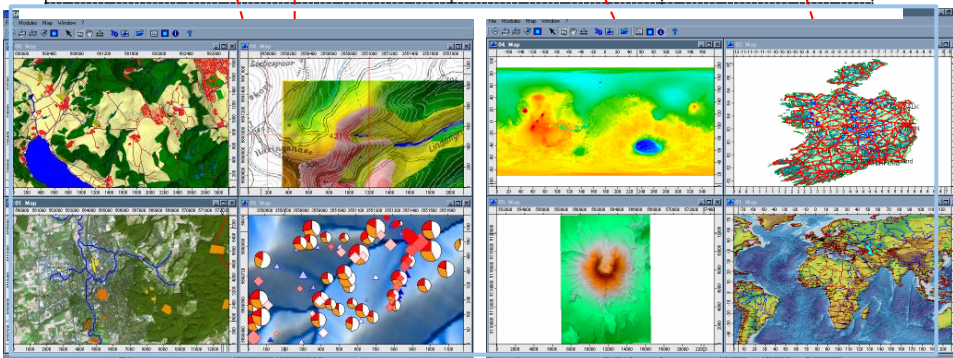
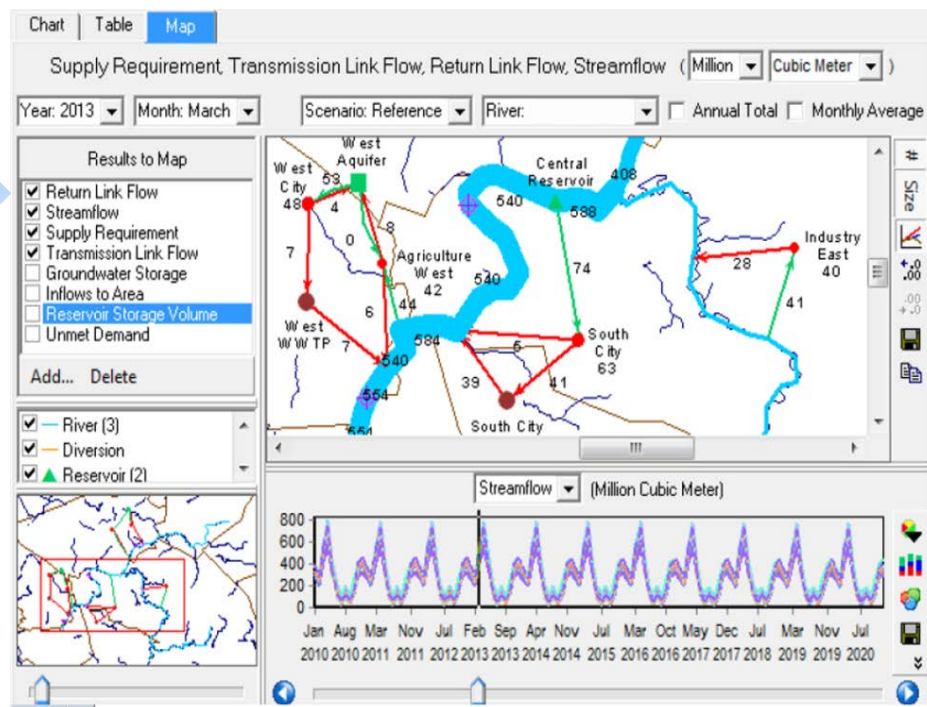
Deliverables	Activities	Outputs	Resources	Milestones	Linkage
1. Assessment of basin-wide water resources availability, including use of climate predictions (3.3.2)	Prepare assessment and outlook of basin-wide availability water surplus and deficits on a national level in a regional context including the use of climate scenarios. (Priority C)		-RAII		RAII, CHy
2. Assessment of basin-wide water resources availability, including use of climate predictions (3.3.2)	Set up knowledge base to adapt to changes in water resources availability. (trends, outlook) (Priority A)	Report related to the case studies	- RA II - Research Documents	- collection case studies in Nov. 2015 - summary the achievements in Oct. 2015 - Final report in Dec. 2015	RAII, AWG
3.3.3 Implementation of Water Resources Assessment (WRA)	Provide guidance materials for WRA linking to Climate prediction - downscaling - monthly and seasonally prediction WRA models - WRA (Priority B)	Guidance for WRA.	- China - Korea	- Provided manual in Dec. 2016	RAII, CHy
3.3.4 Development of national and regional capacity building programmes and related training activities for hydrological services	Organize a training course related to the advancements of WRA : -Downscaling methods; -Data collection; -WRA methods; -WRA Information system (Priority B or C)	Training Course	WMO Regional Training Center in Nanjing	Training Course in Jun. 2016	

Development of WMO WRA System

- CAT(Catchment hydrologic cycle Assessment Tool) module application
 - Water Cycle Analysis Model by Korea technology (KICT)
- Sample test in Korea basin which has enough data



<Water Supply & Demand Estimation>



<Using Open GIS Tool for the parameters>

Thanks for your attention
hydro@korea.kr

NH&S

anycar