



# **AWCI Capacity Development Plenary**

## **Work plan**

## **Tasks**

- **Review the WG reports**
- **Adopt implementation mechanism**
- **Review and modify capacity development document**



## Implementation Mechanism

- Appoint a small science working group for each topic
- The group will have at least one representative from the resource organization
- Committee will communicate with the AWCI in setting up time line and budget
- Report the outline of modules by March GEO meeting.



## Goal

- The goal of the capacity development program of the AWCI is to **facilitate and develop sustainable mechanisms** for the countries in Asia Pacific to **use advanced earth observations systems, associated data and tools** for **water cycle research and water resources management** under GEOSS framework.

## Specific Objectives

- **Downscaling** regional and global information to basin scale and to improve accuracy required by operational water management applications through a combination of numerical forecasting and fusion of local observations.
- Identify reliable and efficient tools to convert the available observations and data to useful information for flood management through data transformations, interpolation, classification and estimation algorithms.
- Conversion of information to water resources management applications, both for operational use and scenario based assessments for planning purposes.

## Target groups

- **Researchers / Scientists**
  - Customizing existing knowledge to suit local conditions supported by global experiences
- **Professional / Practitioners**
  - Introducing new methods, tools, standards
- **Administrative / Local government officers**
  - Over view of technology and science

## Methodology

- The capacity development activities will be designed and carried out concurrently in support of **applications** in **17 Asian Basins** proposed to be studied within the **Asian Water Cycle Initiative** for **clarification of basin water cycle** and the development of appropriate **water management practices**.

## Guiding principles of capacity development

- **The capacity development program is based on the needs of the Asia Pacific countries**
- **Increase the number of technically competent persons who can use advanced space based observations and global climate/weather forecasts.**
- **Facilitate customizing knowledge to meet local conditions and constraints.**

## Increasing technically competent staff (1)

### ● Roving Seminars

- **Base component:** training basic skills to use tools and use of information extracted from space based observations and numerical models.
- **Application examples** and customization through local problem solving.
- Duration, coverage and thematic area will be decided depending on each country need.

## Increasing technically competent staff (2)

### ● Case studies/manual

- Develop **stand alone teaching manuals** on case studies with step-by-step instructions.
- Will use public domain as well as models and software that will be made available to the AWCI group
- The applications will include generic examples as well as specific local case studies supporting AWCI

## Increasing technically competent staff (3)

- **Web based systems**

- Web technology now provides many facilities for distance learning and collaborative activities.
- Experiences from (1) and (2) will be used to develop web based training modules with the support from regional institutes.
- **Constraint: WWW ACCESS SPEEDS**



## Customizing global knowledge

- **How to incorporate advanced technologies in national programs?.**
  - Example, improving quantitative precipitation forecasts.
- **Joint Graduate programs: proposal**
  - 1st year local university
  - 0.5 years at a resource institute.
  - Final year 1.5 - 2.0 years at a post-graduate degree program in a participating university