



GFCS and Support to National Adaptation Efforts

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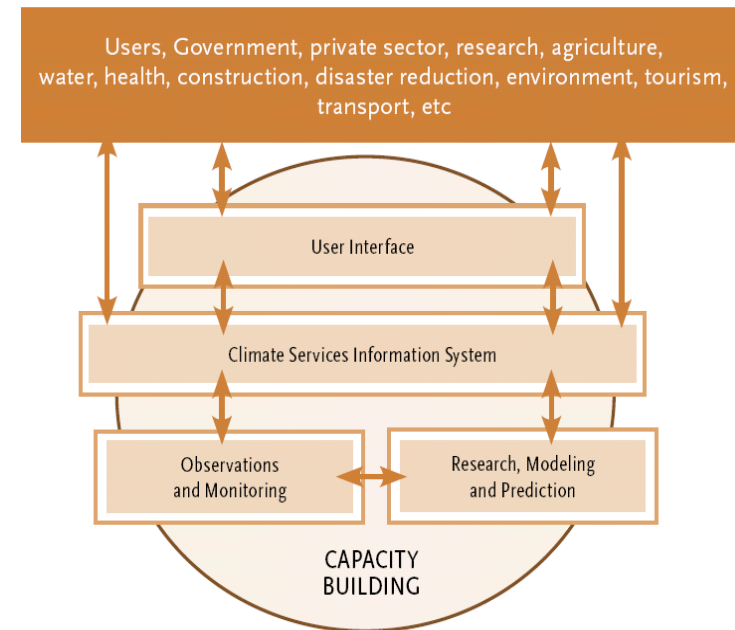
The GFCS

Overall Goal of GFCS

Enable **better management of the risks of climate variability and change and adaptation to climate change**, through the development and incorporation of science-based climate information and prediction into planning, policy and practice on the global, regional and national scale

Goal of Observation and Monitoring Pillar

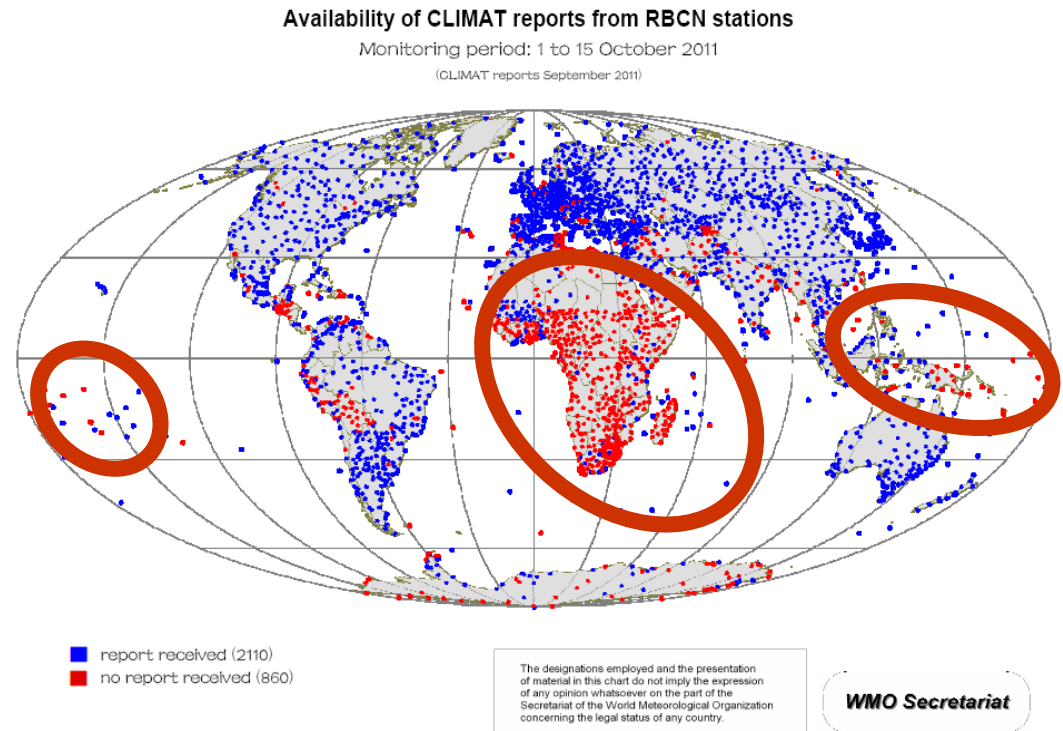
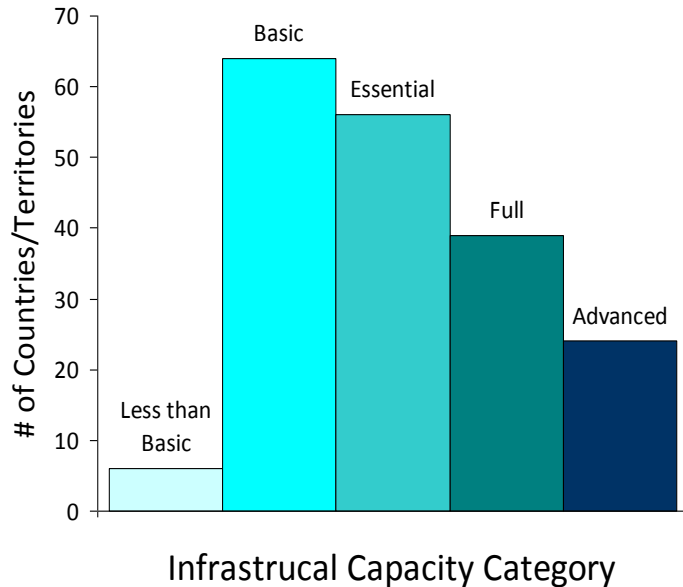
- Availability of data
- Accessibility
- Quality
- Capacity do generate and manage data
- Partnership for improved observations and data including socio-economic data



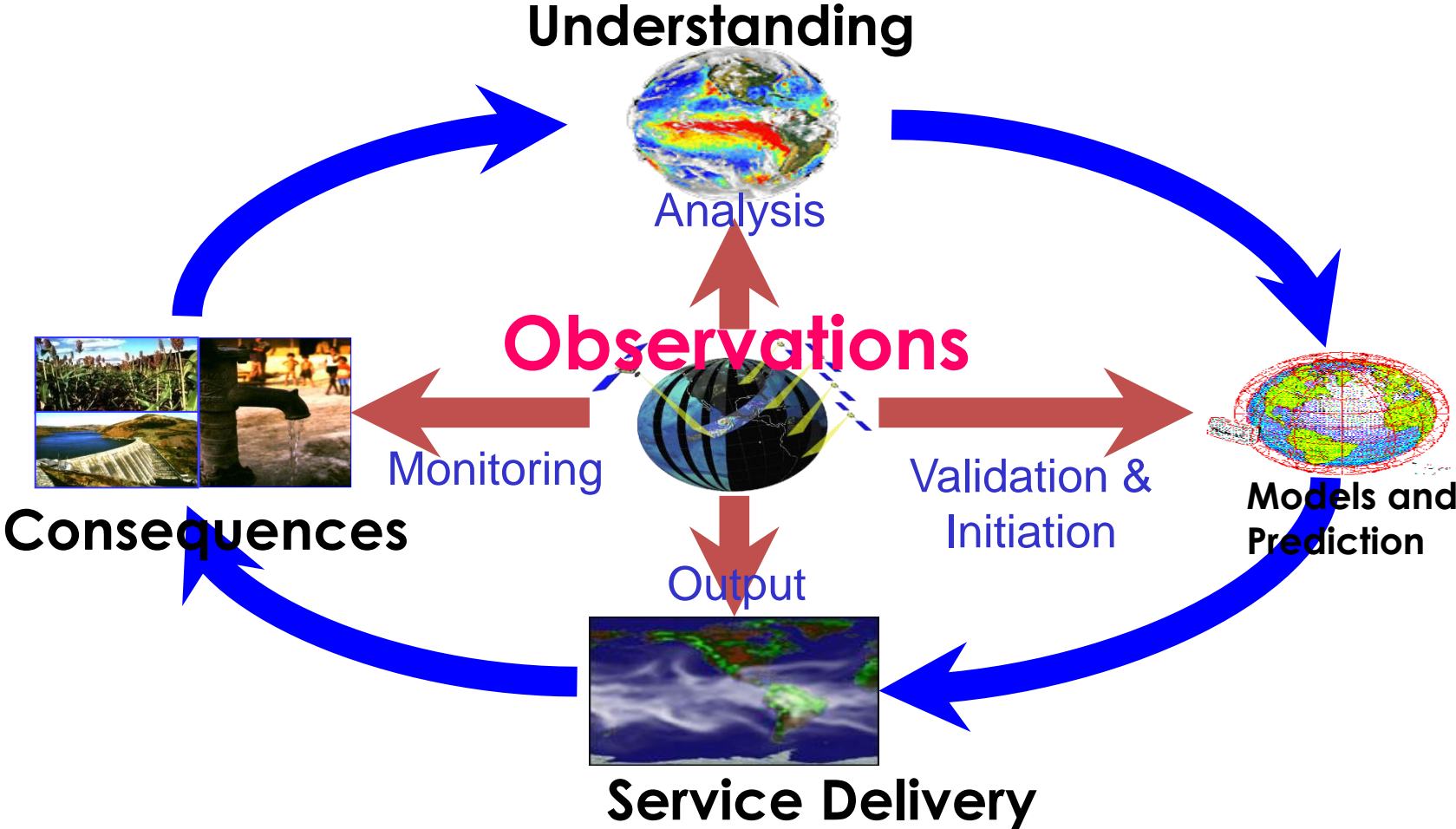
Concern...

Infrastructural Capacities of Countries as of Aug 2010 to provide Basic, Essential, Full and Advanced Climate Services.

- Many countries lack the infrastructural, technical, human and institutional capacities to provide high-quality climate services.



Observations to meet GFCS needs



The availability of new observations strongly motivates advances in understanding, prediction, and application.

Gaps and deficiencies identified through the GFCS IP

- Inadequate atmospheric observations, limited space and surface-based remote sensing capabilities, and the absence of operational monitoring of some important air quality, radiation, etc...;
- Inadequate observational coverage of important oceanographic variables (ocean currents, mass flux, ocean salinity, and sea ice parameters);
- Inadequate terrestrial observing networks (river discharge, ground water, lake levels, permafrost, glaciers and ice caps) and absence of designated networks for soil moisture, Leaf Area Index (LAI), Fraction of Absorbed Photo-synthetically Active Radiation (FAPAR) and above ground biomass

Gaps and deficiencies identified through the GFCS IP

- Need for complementary biological, environmental, and socio-economic data;
- Data policies and infrastructure for data management as well as access to historical observational and other relevant data and derived products;
- Need to address data loss and inhomogeneities in time series;
- Need to rescue, digitize data

Recent Activities

- Facilitation of frameworks at national level (Burkina Faso, Belize, Chad, Mali, Niger, South Africa)
- Consultations at regional level (Bangkok for LDC in Asia and Port of Spain for the Caribbean region)
- Provision of data management systems
- Support to data recue in Africa and Small Island Developing States
- Coordination and servicing partners who are investing in observing networks particularly in developing countries



Picture: Regional Workshop in Bangkok



Thank you for your attention