



The Global Framework for Climate Services (GFCS)

Vision

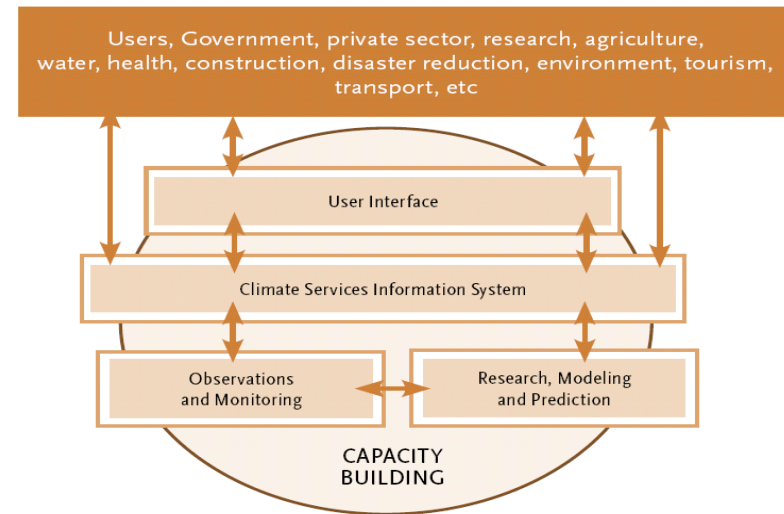
To enable **better management of the risks** of climate variability and change and **adaptation to climate change**, through the development and incorporation of science-based climate information and prediction into planning, policy and practice on the global, regional and national scale.”

Priority Areas



Energy, 5th GFCS priority

Pillars or components



Research, Modelling and Prediction

Gaps

- **Communication** between communities of scientists and practitioners
- **Last mile** between science products and service-oriented climate information
- **Lack of seamless suite of climate products** for contiguous time scales from weather to centennial climate projections
- **Limited or unknown predictability** for a range of key time-space scales, including extremes
- Lack of comprehensive approaches and experience in dealing with **uncertainty**

Research, Modelling and Prediction

WCRP Grand challenges

- Clouds, circulation & climate Sensitivity
- Melting Ice & Global Consequences
- Climate Extremes
- Regional Sea-Level change & Coastal Impacts
- Water Availability

Major needs

1. **Tailored** climate information products and advisory services (detailed and skilful forecasts + climate change projections + better prediction of extremes);
2. **Capacity development** of professionals and communities on production and effective application of climate services;
3. Improved, **standardized**, and quality controlled sector monitoring data that is compatible with environmental and climate information;
4. Monitoring and evaluation of the appropriate, **effective, and cost-effective use of climate information** for sector decisions;
5. **Research and prediction of sector impacts** associated with climate variability and climate change;
6. **Development and deployment of early warning systems** appropriate to the sector and user communities;
7. Sustainable **financial and technical** support;
8. **Better collaboration** with the climate community for interdisciplinary policy, practice and research.



Thank you for your attention