



World Meteorological Organization

Working together in weather, climate and water

# THE GLOBAL FRAMEWORK FOR CLIMATE SERVICES (GFCS)

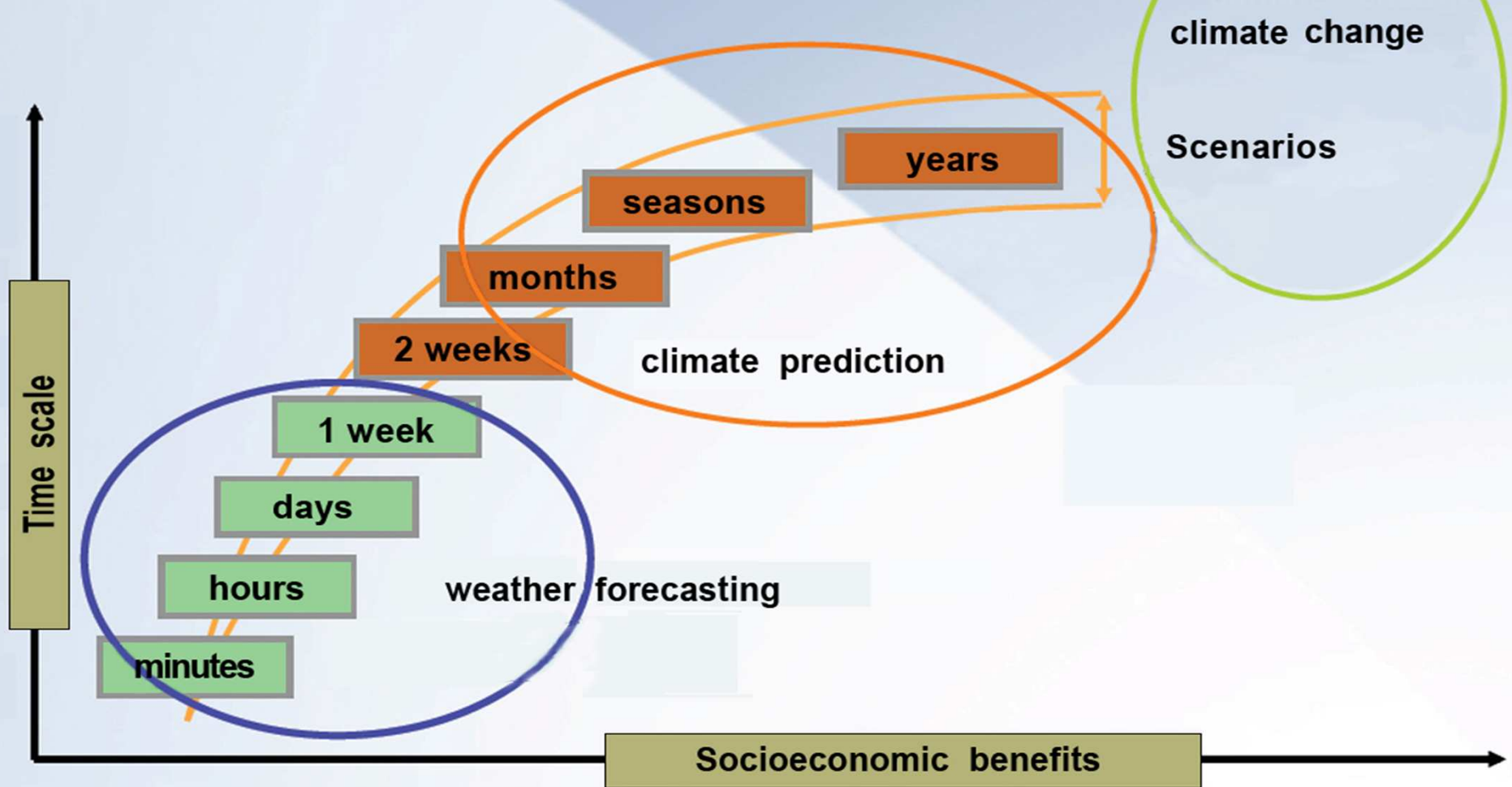
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<http://www.wmo.int/gfcs>



# Weather vs. climate



- ✓ Towards a seamless transition between weather and climate predictions & services



# Decision-making across timescales



Begin monitoring mid-range  
and short-range forecasts

Update contingency plans

Train volunteers

Sensitize communities

Enable early-warning systems

Continue monitoring  
Short-time-scale forecasts

Mobilize assessment teams

Alert volunteers

Warn communities

Local preparation activities

Deploy assessment teams

Activate volunteers

Instruction to communities  
to evacuate, if needed





# Concern...

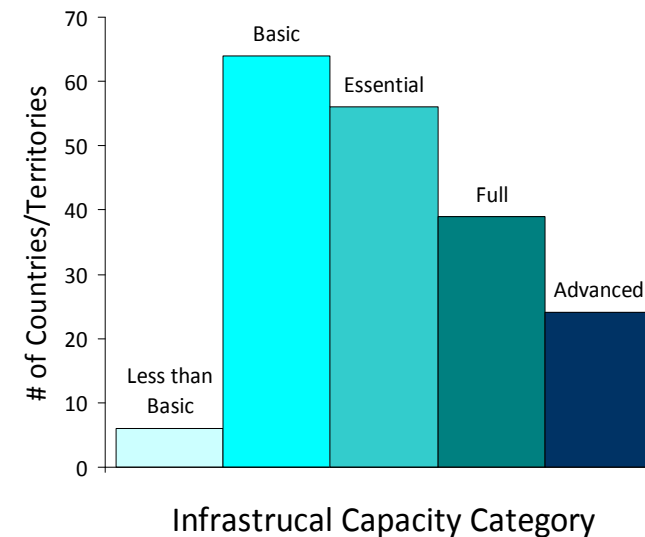
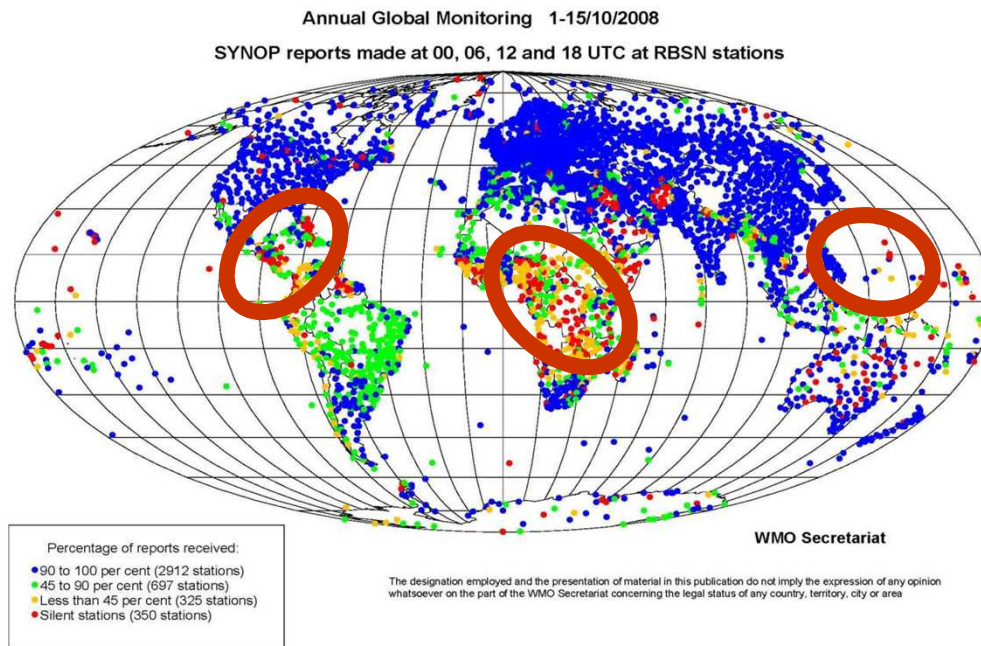




# Concern...

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

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







# Concern...

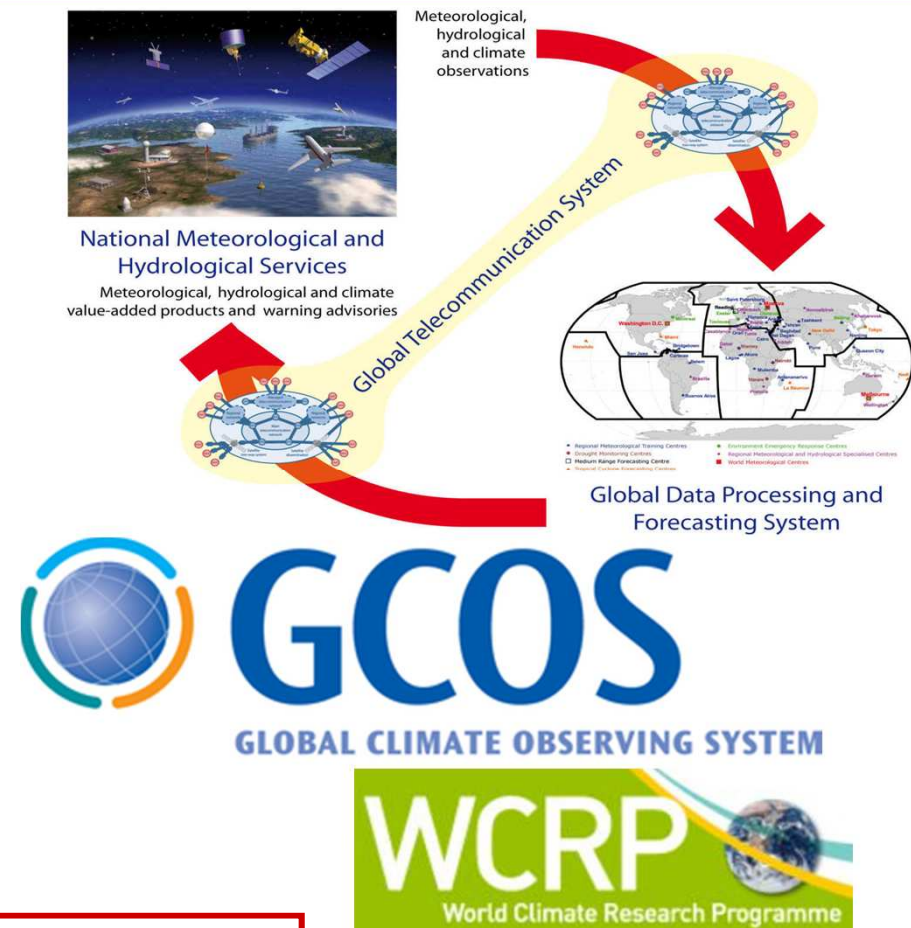
- Climate services do not get to the “**last mile**” to those who need them the most.





# Need for a coordinated and integrated approach

- GFCS is a global collective effort being built in collaboration with UN family, partners and stakeholders
- To address observations, research, products development to service delivery various actors are required
- WMO with its Members, bodies and co-sponsored programmes will provide only a component needed to build the framework



Partnerships are key for success of GFCS





# The purpose of the 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







# The vision of the GFCS

The Framework will establish:

1. A global system to routinely **generate** and electronically **exchange** an extensive set of defined climate data and data products
2. An initiative in developing countries to **upgrade the climate service capacities** and strategies of all vulnerable and low-capacity countries to a baseline level
3. An initial suite **of new knowledge products** – protocols, tools, products and services – developed through multiple initiatives on **user interfacing** and services development
4. An ongoing **governance mechanism** that drives the Framework's development, particularly by engaging and mobilizing stakeholders, user communities and new resources

Significant improvements in well-being and prosperity by harnessing  
Climate knowledge and applying in a worldwide concerted effort





# The principles of the GFCS

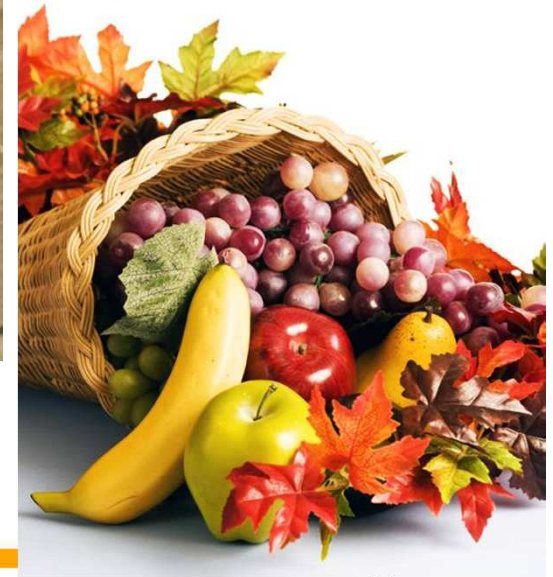
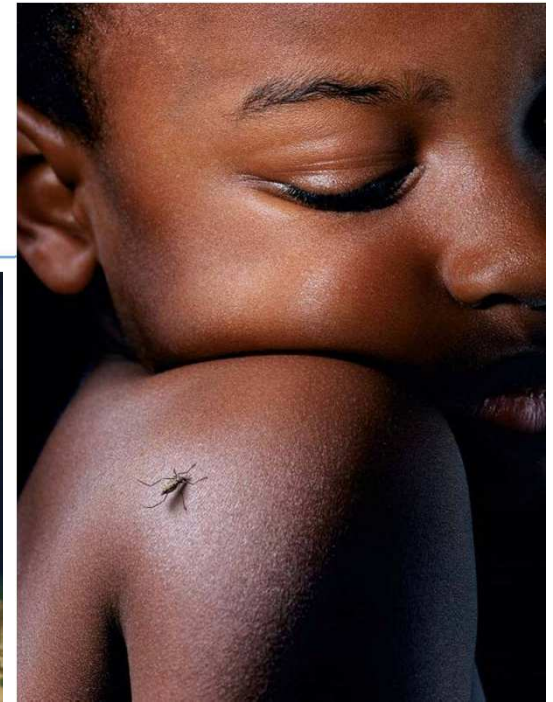
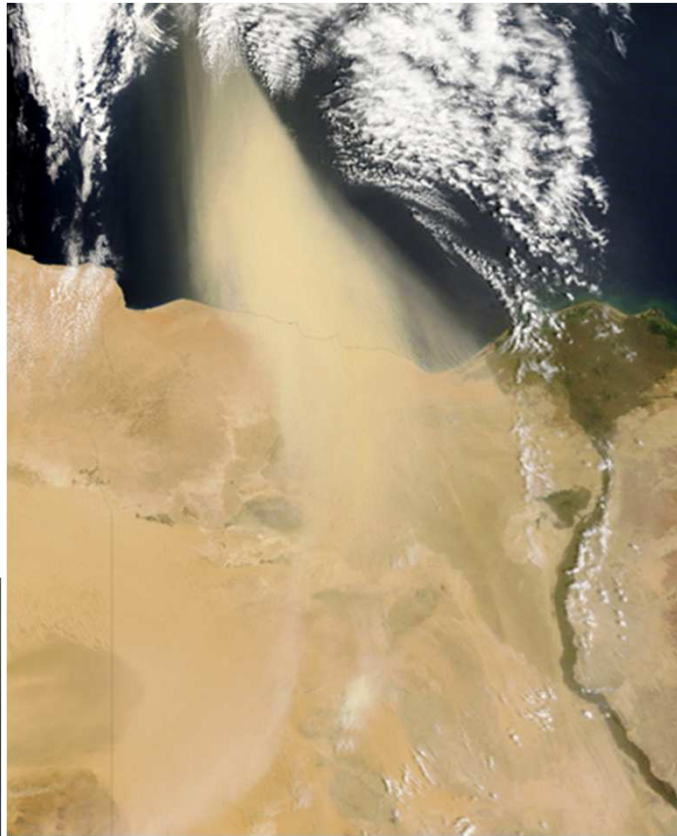
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- 1 - Priority shall go to **building the capacity** of climate-vulnerable developing countries
- 2 - Ensure **greater availability of, access to, and use** of climate services for all countries
- 3 - **Three geographic domains**; global, regional and national
- 4 - **Operational climate services** will be the core element of the Framework
- 5 - Climate information is primarily an international **public good provided** by governments, which will have a central role in its management through the Framework
- 6 - Promote **free and open exchange of climate-relevant observational data** while respecting national and international data policies
- 7 - The role of the Framework will be to **facilitate and strengthen**, not to duplicate
- 8 - **Built on user needs** through user – provider partnerships that include all stakeholders



# The GFCS short term priority areas

- ✓ **Water**
- ✓ **Disaster risk reduction**
- ✓ **Health**
- ✓ **Agriculture/food security**





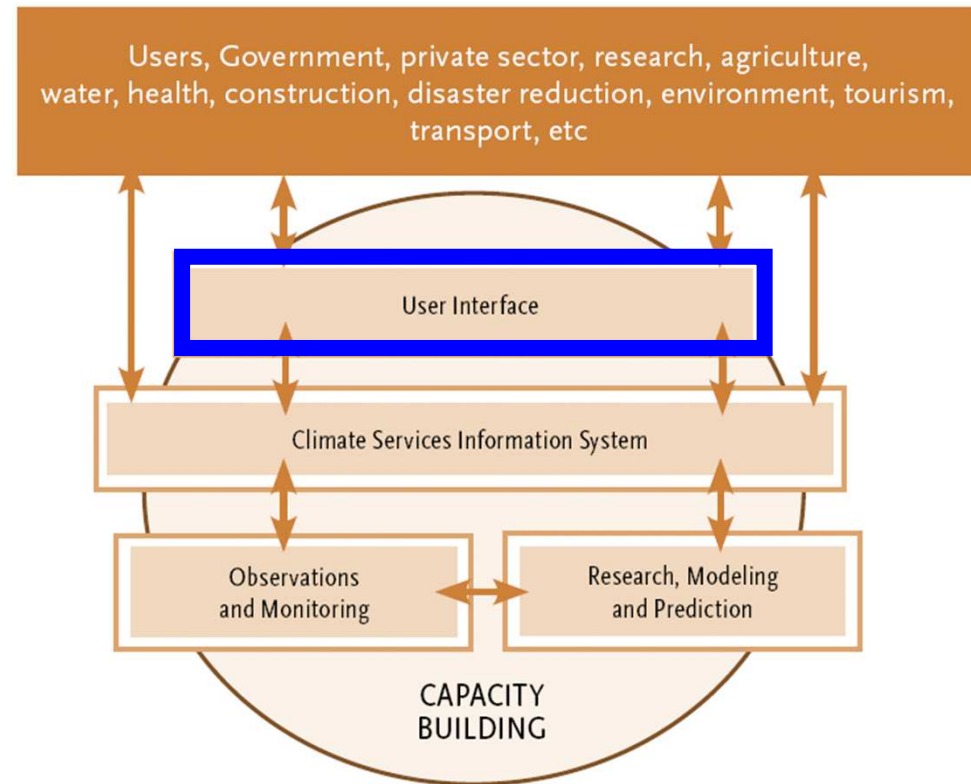


# The pillars of the GFCFS



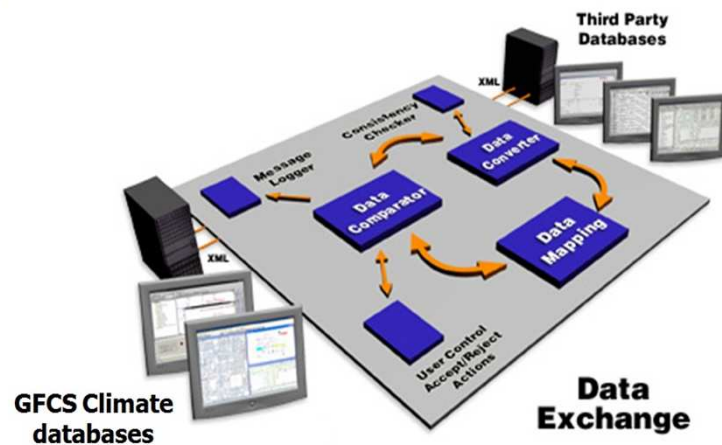
Innovative mechanism that will:

- Provide forum for dialogue to understand needs of users and capabilities of providers
- Identify products and services requirements of users
- Allow users to provide feedback o
- Increase the literacy of climate service users
- Monitor user satisfaction with the overall performance of the Framework



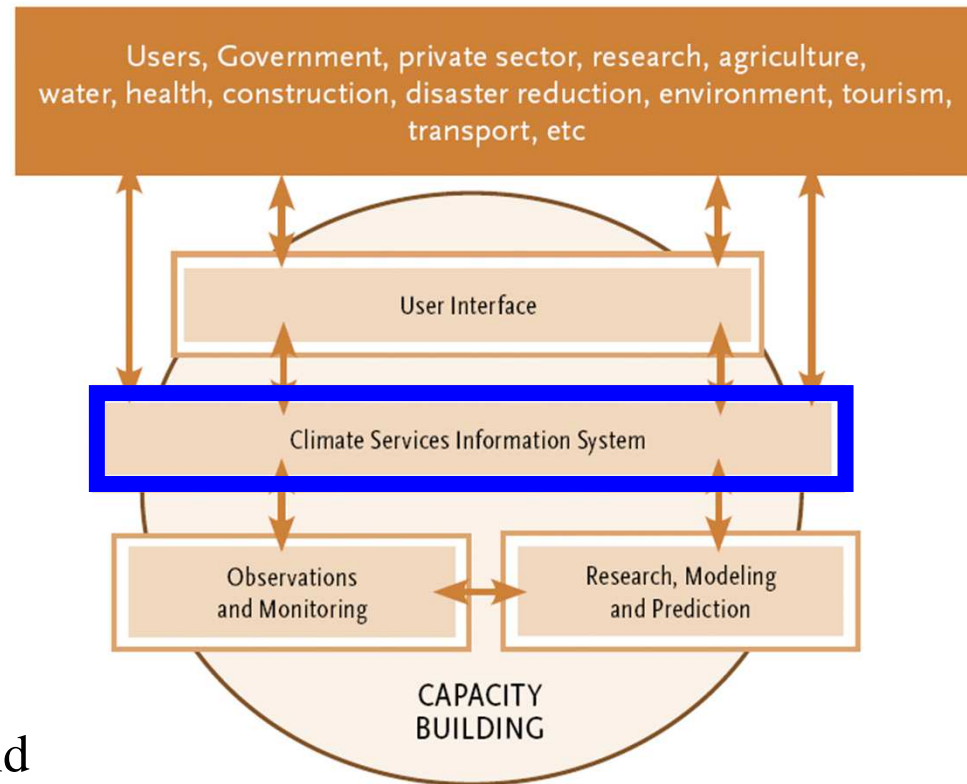


# The pillars of the GFCS



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- Generate, protect and distribute climate data and information according to the needs of users and to agreed standards from the global to national levels

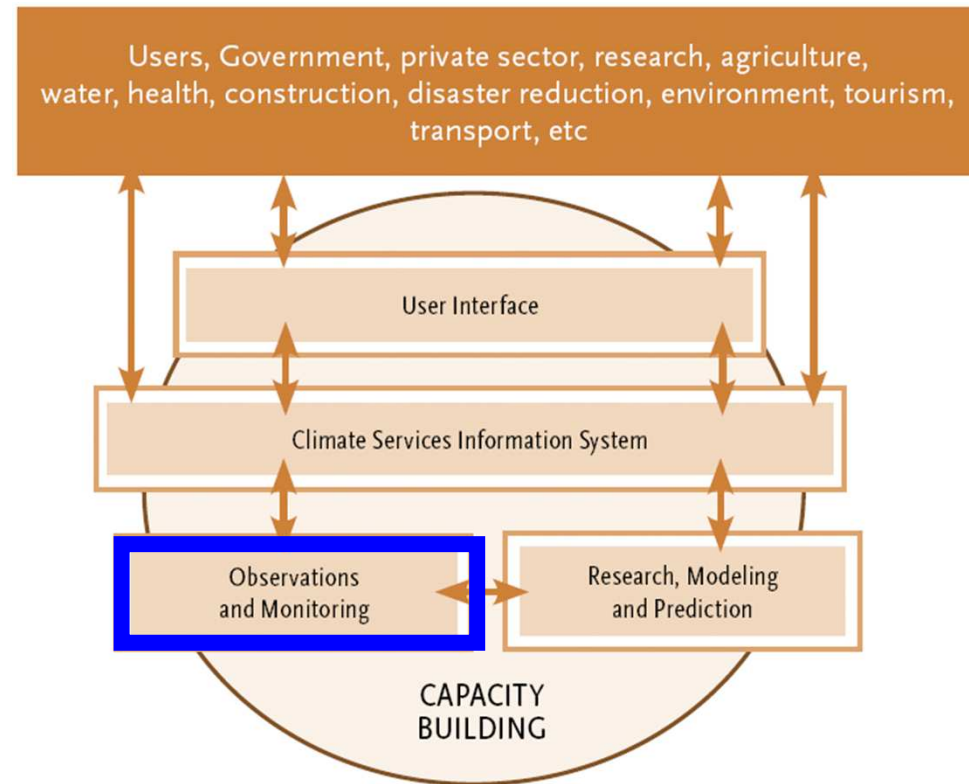




# The pillars of the GFCS



- Collect data to meet service provision needs as identified by the UIP and research needs
- Develop agreements and standards for generating necessary data for climate services

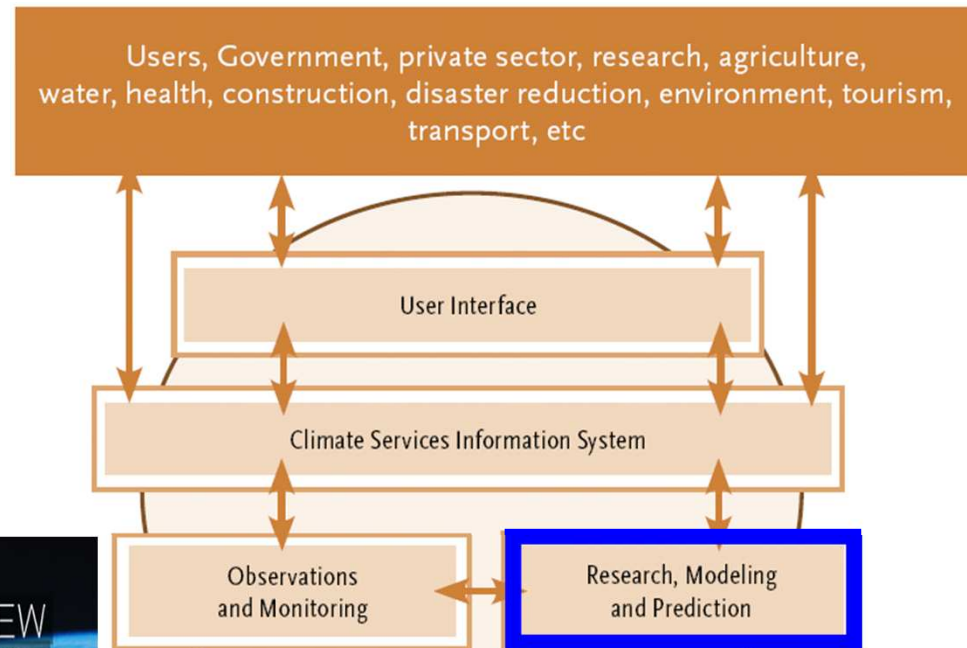






# The pillars of the GFCS

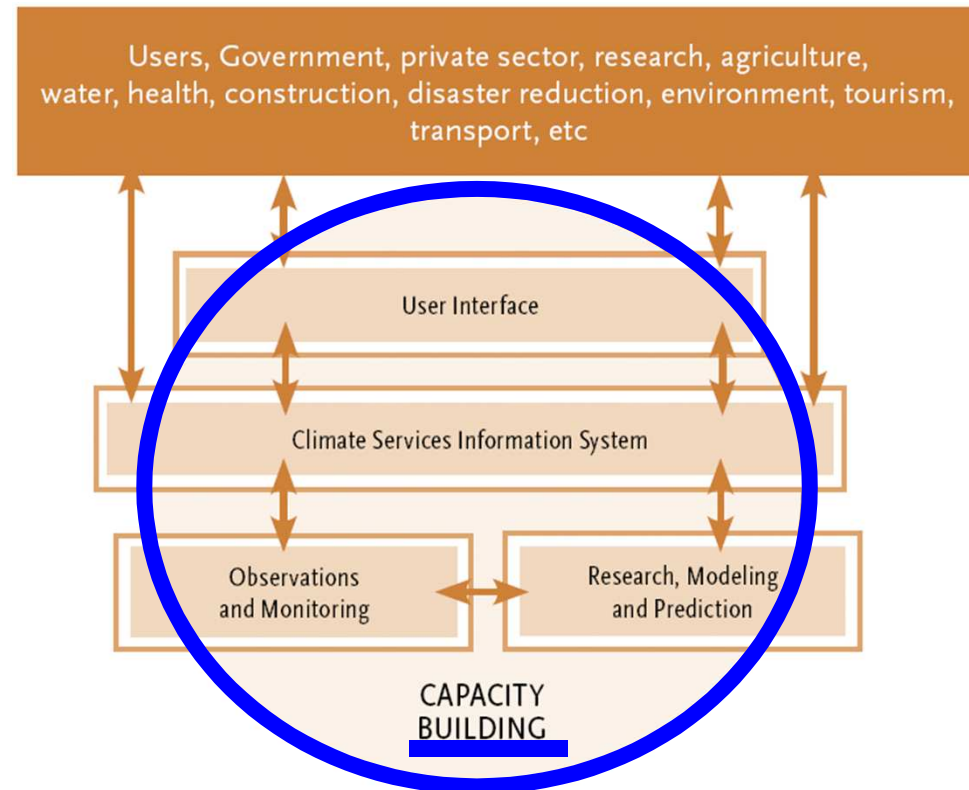
- Further understanding of the climate system dynamics and change
- Engage in multidisciplinary research focusing on human vulnerabilities to changes, socio-economic impacts and adaptation options
- Engage in research to respond to needs emanating from UIP
- Translate scientific advances into applications and tools to address user needs





# The pillars of the GFCS

- Support the systematic development of the institutions, infrastructure and human resources needed for effective climate services





# Domains of operation of GFCS

## Global Level (GPC)

- Produce global climate prediction products
- Coordinate and support data exchange, major capacity building initiatives
- Establish and maintain standards and protocols



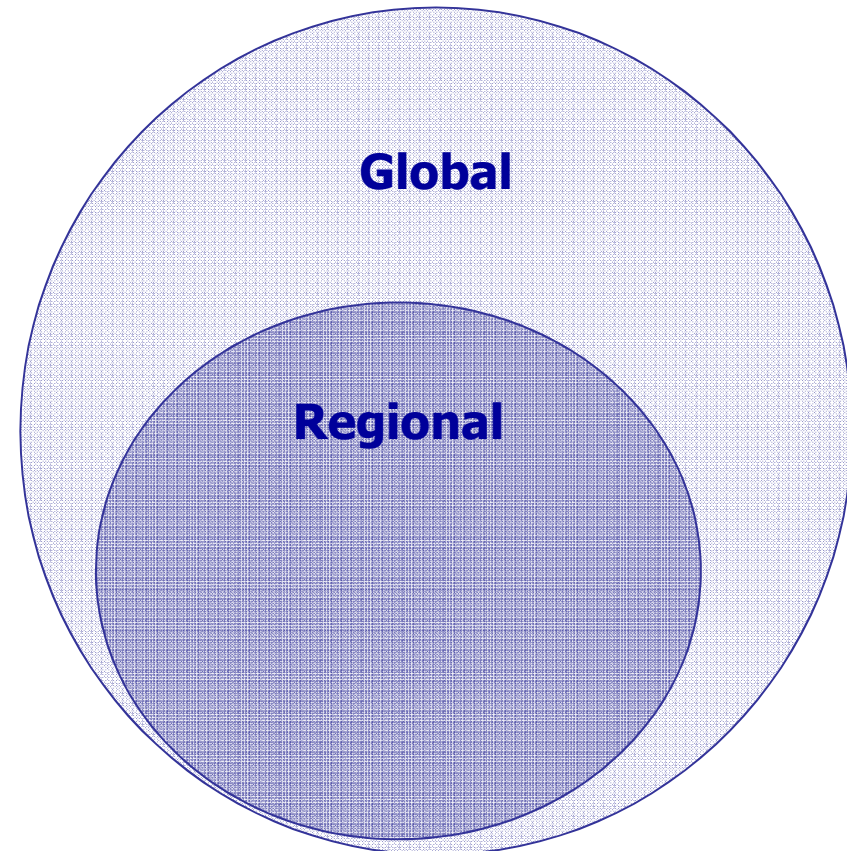




# Domains of operation of GFCS

## Regional Level (RCC)

- Support multilateral efforts to address regional needs
  - Regional policy, data exchange, infrastructure dev, research, training at service provision
- e.g., RCOF
  - Focused on providers
  - Need more linkages with research



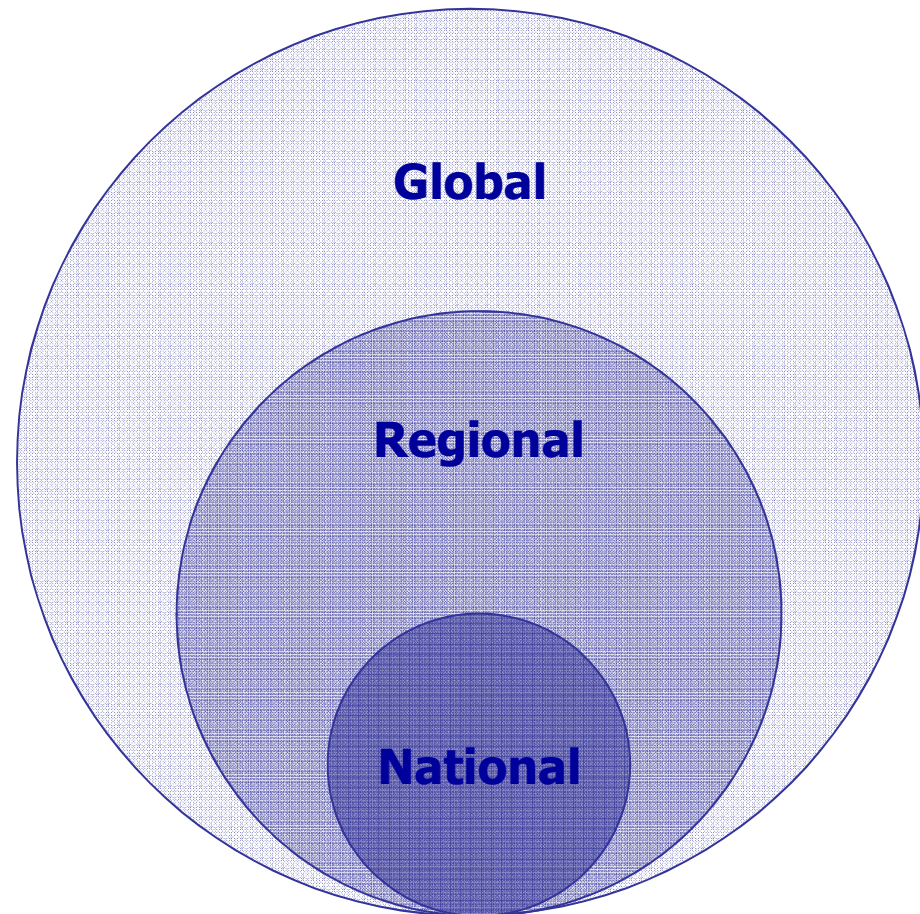
Critical for capacity building requiring resources beyond a single nation



# Domains of operation of GFCS

## National Level (NCC)

- Ensure access to data and knowledge products
- Tailor information to user requirements
- Ensure effective routine use of information
- Develop sustainable capacities





## Process for development of the Implementation Plan and Governance of GFCS

- Aug to Dec 2011: Consultations under pillars and priority areas of GFCS
- August to date: Briefing sessions and side events
- End of January 2011: Zero Order draft of the Implementation Plan and Governance mechanism of the GFCS
- 28 Feb – 1 March: 2<sup>nd</sup> Meeting of ECTT-GFCS
- 8 – 19 March 2012: Review of drafts by experts and ECTT members
- 13 April 2012: 1st Draft of the Implementation Plan and the governance mechanism
- Mid-May to 25 June: Pre-EC review of documents
- 25 June – 3 July: Consideration of the 1st Draft in the LXIVth session of the Executive Council
- 1<sup>st</sup> ½ July: Post-EC review of documents of 1st Draft documents
- 6 August: 2nd Draft the Implementation Plan and the governance mechanism
- 21-23 August 2012 : 3rd meeting of the ECTT-GFCS
- End of August: Final document of the implementation plan and the governance mechanism
- 17 September 2012: Translated documents on the web
- 29 – 31 October 2012: Extraordinary Congress





# Thank you



## Global Framework for Climate Services (GFCS) Office



Global Framework for Climate Services

### **For more information contact:**

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Or join the talk:

<https://groups.google.com/a/wmo.int/group/gfcs?hl=en>