

Global RCC Review 2018: Background, Objectives and CSIS-Regional

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WMO OMM

World Meteorological Organization

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RCCs: The Beginning

- **1999**: First call for RCCs given by 13th World Meteorological Congress
 - Define the requirements for, and objectives and responsibilities of regional and global centres to support operational national climate services;
 - Define the use of existing regional structures and institutions;
 - Involve regional associations and other partners in the development of the concept of RCCs.
- **2000-01**: Inter-Commission Task Team on RCCs
 - CCI, CAgM, CBS, CAS, CHy, regional representatives, etc.
 - RCC responsibilities should not duplicate or replace those of NMHSs
 - Follow the steps set up for designation of Regional Specialized Meteorological Centres (RSMCs);
 - Procedures for designation of RCCs need to be defined;
 - A range of RCC Functions developed: Operations, Data, Coordination, Training, Research
- **2003**: CCI Ad-hoc ET on the Organization and Implementation of RCCs
 - Early concepts and guidance for the establishment of RCCs

RCCs: Taking Shape

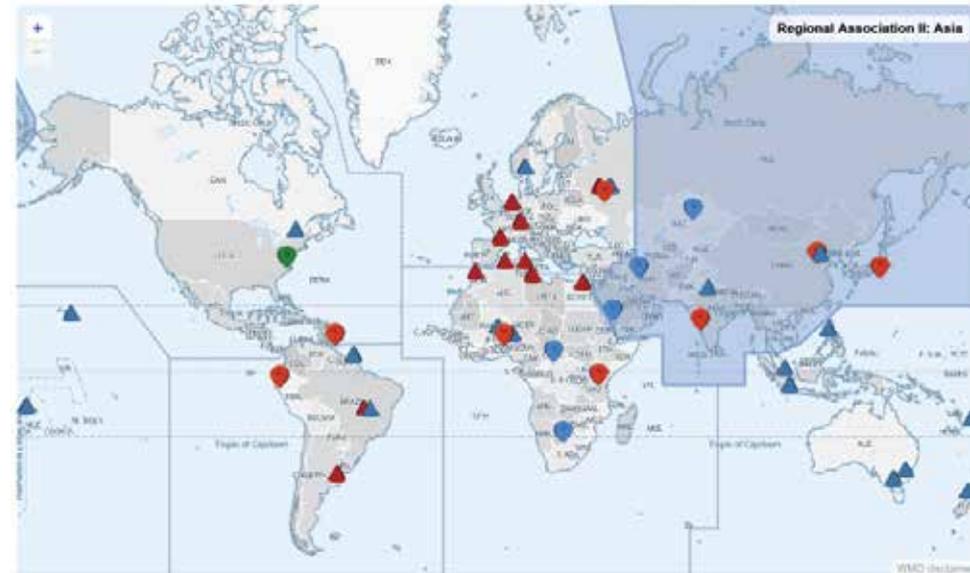
- **2006:** Advent of GPCs-LRF
- **2007:** Next steps on RCCs decided by 15th Session of Congress
 - Hold a technical meeting to facilitate the exchange of experience among the WMO Regions and to identify the minimum requirements for RCC functions;
 - Initiate a joint CCI-CBS process for official designation for WMO RCCs under the *Manual on the Global Data Processing and Forecasting System*.
- **2007:** CCI Implementation Coordination Team agrees on:
 - RCC/RCC-Network concepts and functional structure
 - CCI-CBS joint technical effort to work out RCC designation criteria
- **2008:** CCI-CBS Joint Technical Meeting
 - Designation criteria to be included in Manual on GDPFS
 - Designation procedures

RCCs: Arrive and Spread

- **2009**: CBS recommends and EC approves RCC designation criteria
 - RCCs make first appearance in GDPFS Manual
 - BCC and TCC become the first formally designated RCCs
 - RCCs recognized as key mechanisms for GFCS at the World Climate Conference Three (WCC-3)
- **2010-18**: RCCs/RCC-Networks spread into all six WMO Regions
 - 8 RCCs and 3 RCC-Networks designated
 - 1 RCC and 3 RCC-Networks in demonstration phase
 - More expressions of interest
 - CCI-CBS joint guidance established

Regional Climate Centres (RCCs)

- RCCs provide regional climate products in support of regional and national climate activities
- Mandatory Functions:
 - Operational Activities for LRF
 - Operational Activities for Climate Monitoring
 - Operational Data Services, to support operational LRF and climate monitoring
 - Training in the use of operational RCC products and services
- Highly Recommended Functions:
 - Climate prediction and projection
 - Non-operational data services
 - Coordination functions
 - Training and capacity building
 - Research and development
- Two modes of Implementation: fully self-contained RCCs or distributed-function RCC-Networks



Legend

- designated RCC
- RCC in demonstration phase
- RCC proposed
- ▲ designated RCC-Network
- ▲ RCC-Network in demonstration phase
- ▲ RCC-Network proposed

<http://www.wmo.int/pages/prog/wcp/wcasp/rcc/rcc.php>

Objectives of Workshop

- Share Experience
 - RCC status and lessons learnt
 - Operational arrangements and practices
- Consider
 - Emerging climate topics of regional interest
 - Evolving user needs and technological advances
- Review RCC functions
 - Propose revision/update to enhance quality and uptake
- Explore ways to support CSIS Regional Approach
 - Linkages with GPCs
 - Optimize national support

Expected Outcomes

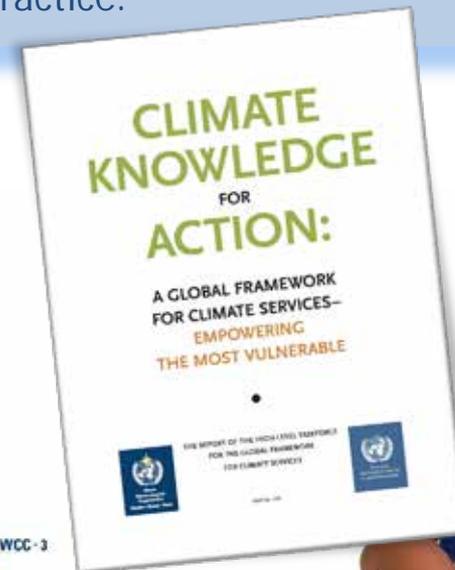
- Overview of current RCC performance and uptake of RCC products and services
 - SWOT Analysis
- Proposals for further development
 - Complement RCOF Review 2017 outcomes
- Recommendations to enhance RCC operations
 - Revisions/updates of products and criteria
 - Inter-RCC collaboration and harmonization
 - Outline of next steps to consolidate RCC role in CSIS-Regional approach
 - Ways to ensure better uptake by NMHSs including capacity development

Climate Service Information System (CSIS)

- The CSIS is the component of the GFCS most concerned with the generation and dissemination of climate information.
- It is the 'operational centre' of the GFCS. It deals with climate data, monitoring, prediction (monthly, seasonal, decadal) and projection (centennial) activities.
- "CSIS is the system needed to collect, process and distribute climate data and information according to the needs of users and according to the procedures agreed by governments and other data providers." (*High Level Taskforce on GFCS*)

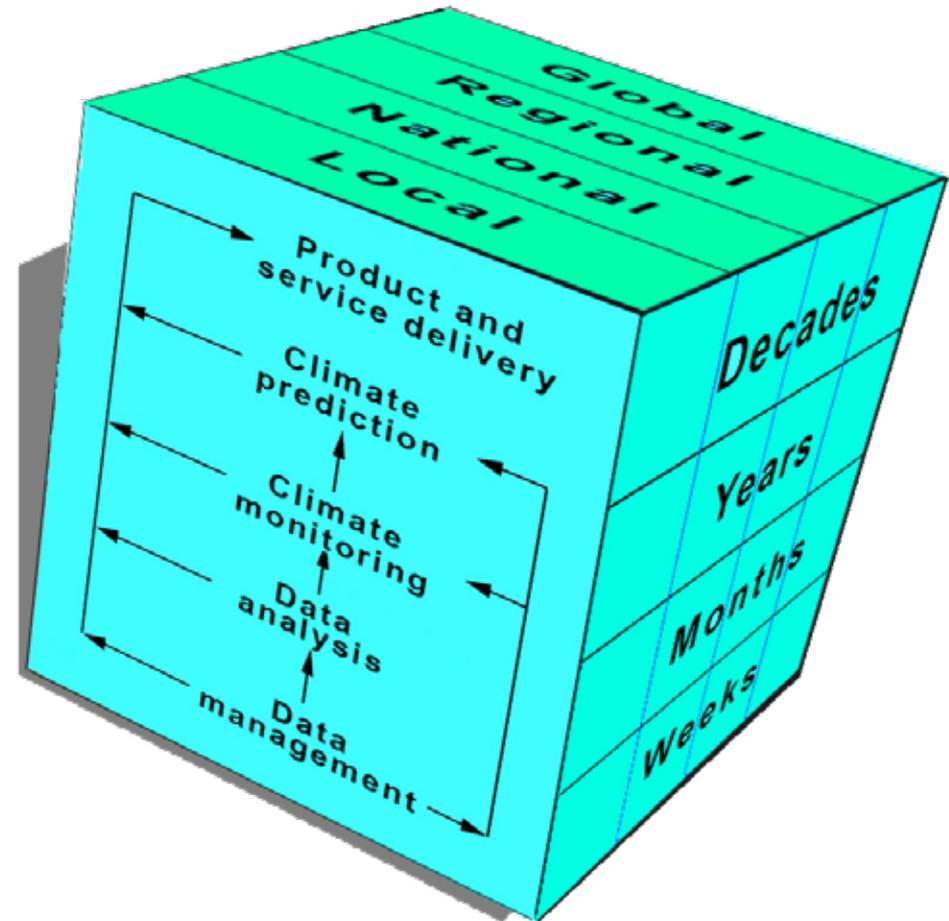
GFCS Goal:

Enable better management of the risks of climate variability and change and adaptation to climate change at all levels, through development and incorporation of science-based climate information and prediction into planning, policy and practice.



CSIS Implementation Strategy

- Developing and implementing CSIS architecture
 - Functional descriptions and product development (Data/Monitoring/Prediction/Projection)
 - Operational infrastructure: GPCs, RCCs, RCOFs, NMHSSs, NCOFs/NCFs
 - Climate Services Toolkit
 - Capacity Development



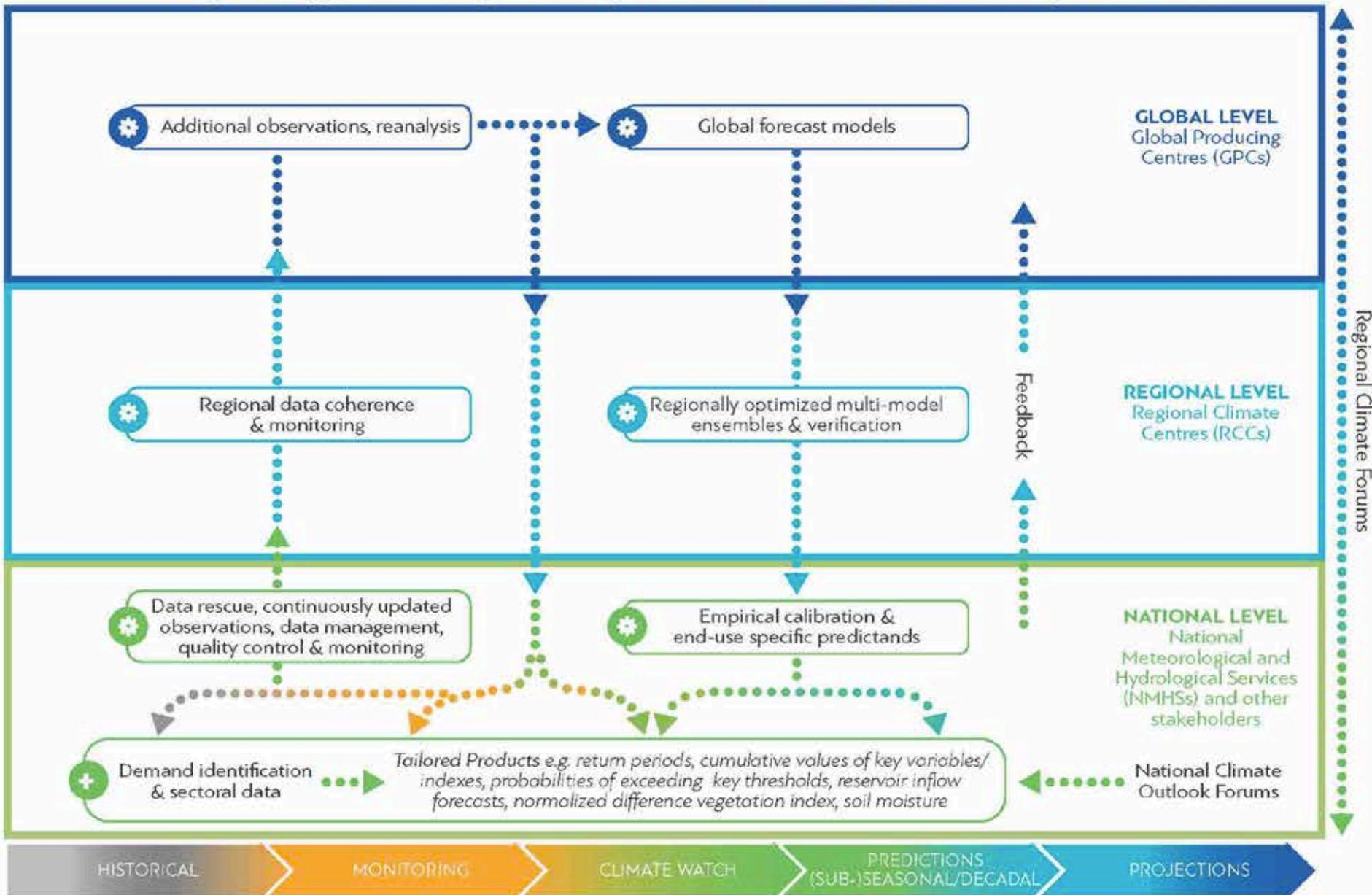
CSIS Regional Approach Rationale

- Country-focused results based framework for WMO contributions to the GFCS
 - Regional delivery systems, tools and methods
 - National capacities for improving climate-related outcomes
- A focused regional effort is needed
 - Systematic strengthening of early warning services to help countries in the region
 - Facilitated access to regional information is an essential input for national climate services
- The approach can be demonstrated in a few target regions and upscaled to other regions.

Basic Building Blocks

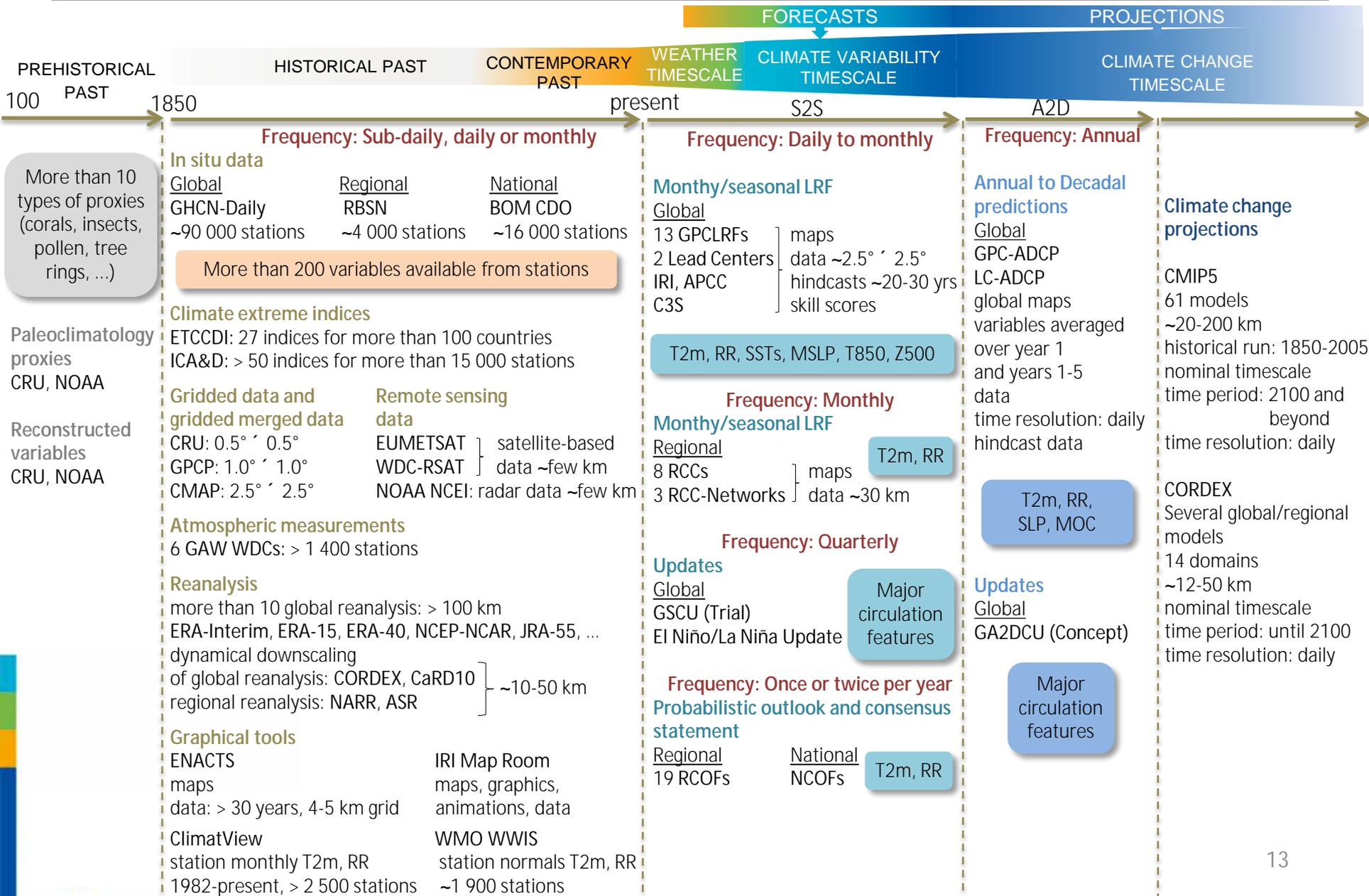
- CSIS minimum (core) functions
 - Data (historic, present, future), Monitoring, Prediction (sub-seasonal to decadal), Projection
- Additional CSIS functions to underpin demand-driven services
- Deployment of Climate Services Toolkit
- Integration with relevant WMO standards and protocols
 - GDPFS/WIS/WIGOS
- Partnerships
- Capacity development
 - institutional/infrastructural/procedural/human resources
- Regionally tailored projects

A Regional Approach to Implementing the Climate Services Information System (CSIS-R)

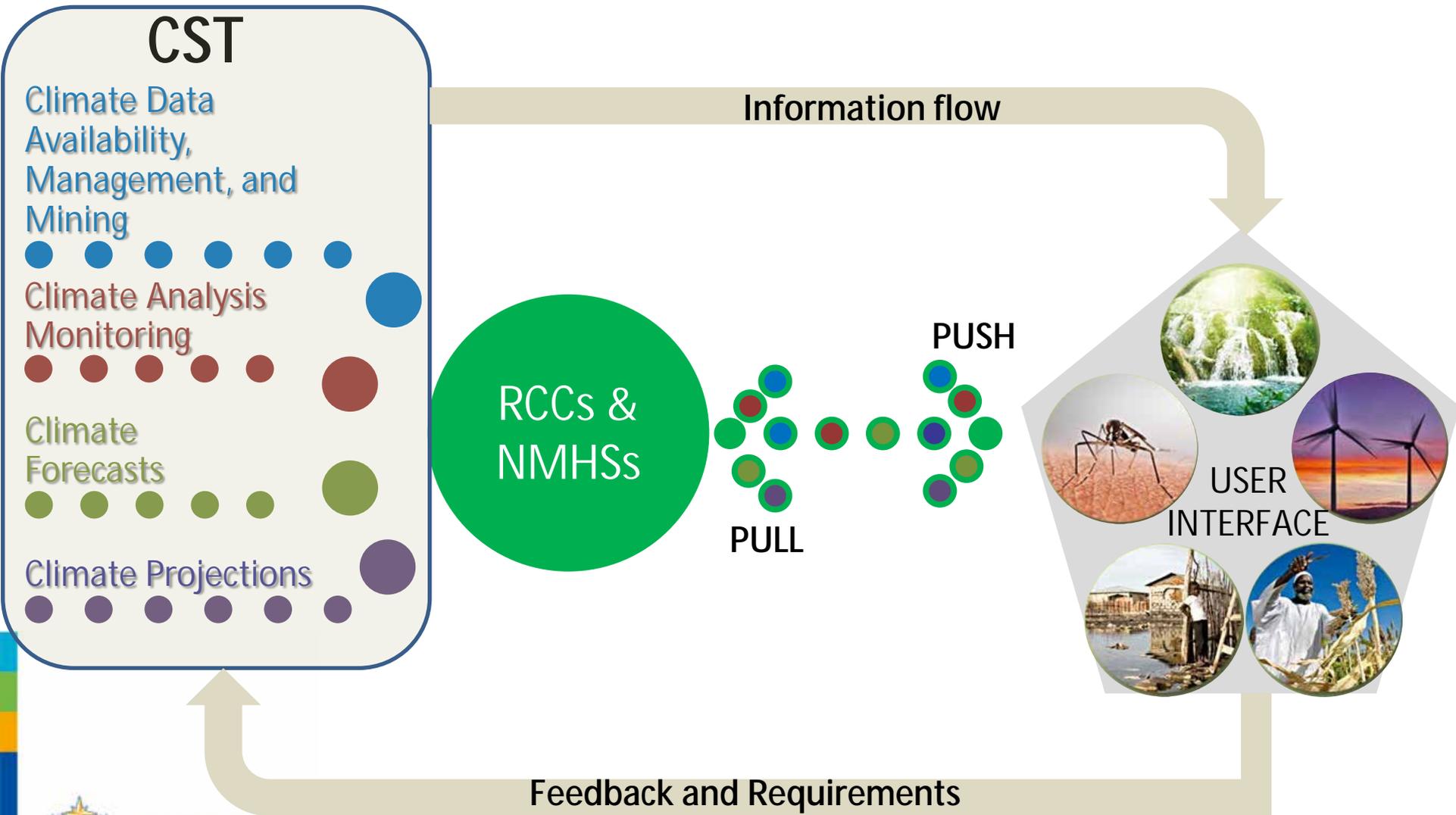


Current status of availability and access to data and products from CSIS entities

Availability of data and products (Non-exhaustive list)



Climate Services Toolkit (CST)



Way Forward

- Enhancement of RCC products and services
 - RCC Review 2018 to provide the main thrust
 - Coordinated RCC support to countries
 - Focus on improved national capacities (especially human resources) to access and apply RCC products
- Expanding RCOF product portfolio (monitoring, sub-seasonal products, regional climate change, etc.)
- Greater and sustained engagement of regional implementation partners
- Regional consolidation and complementarity of investments in support of climate services
- Key regional inputs for co-production of climate inputs for decision support at the national level



Thank you
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