

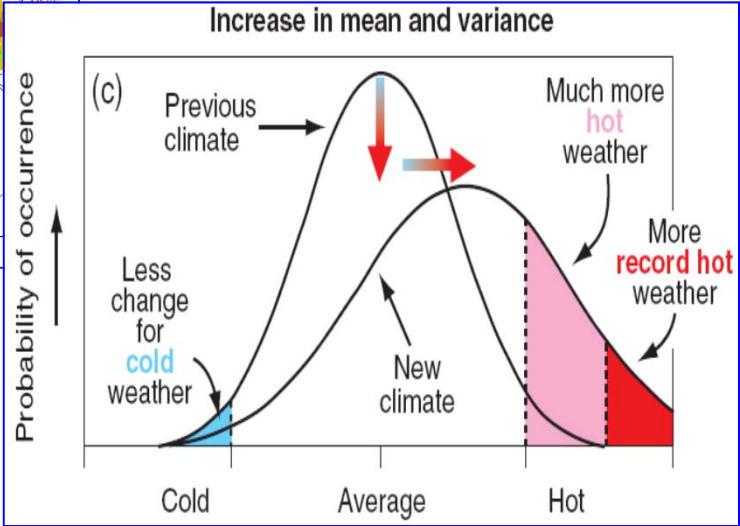
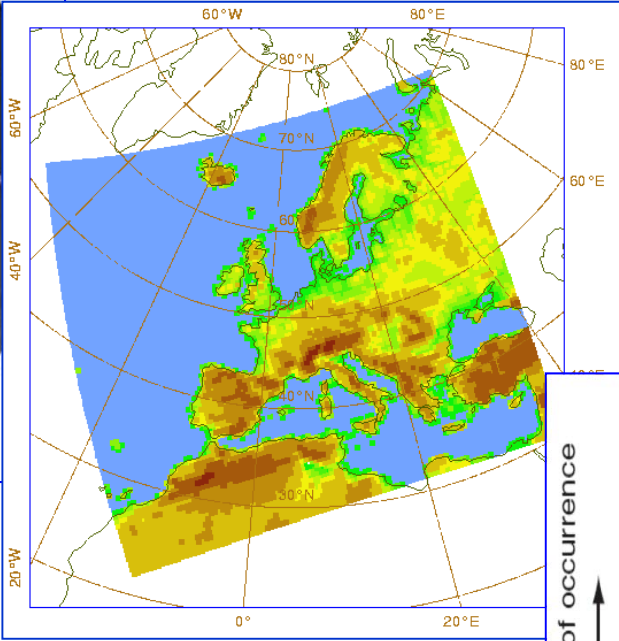
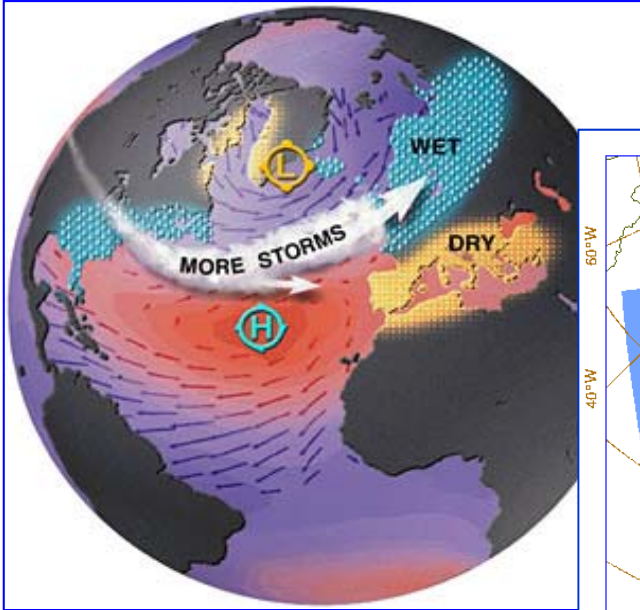


# GFCS STATUS

**Filipe Lúcio**  
**Director, GFCS**  
**[flucio@wmo.int](mailto:flucio@wmo.int)**

<http://gfcs.wmo.int>

# Concern



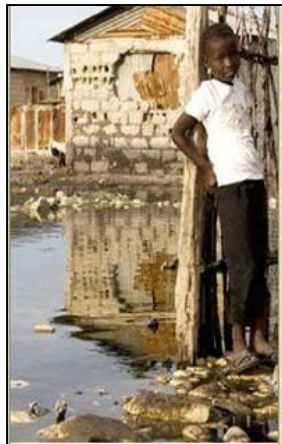
# Vision

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*



**Agriculture and  
food security**



**Disaster risk  
reduction**



**Water**

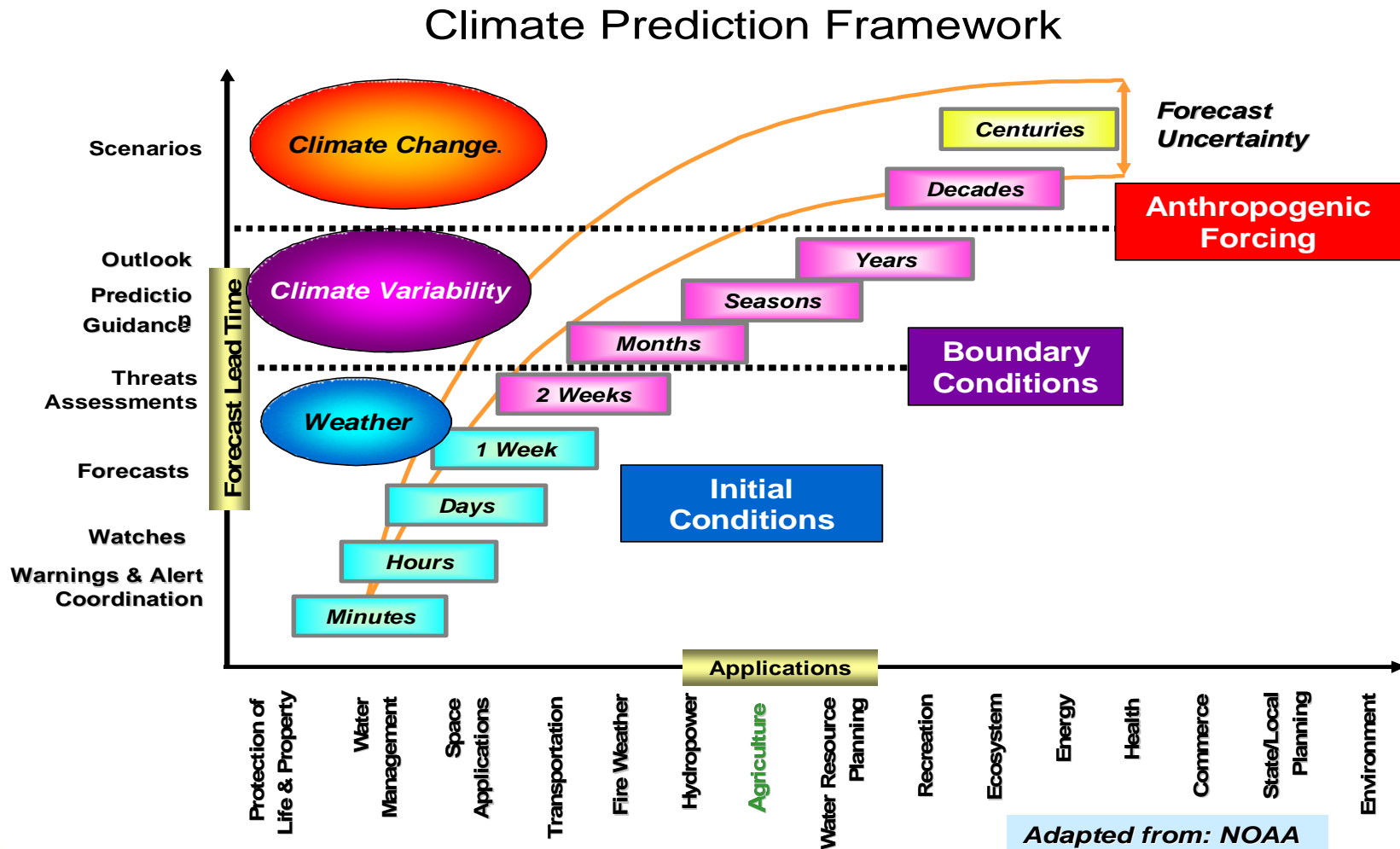


**Health**

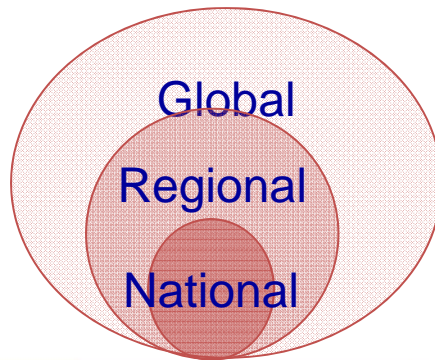
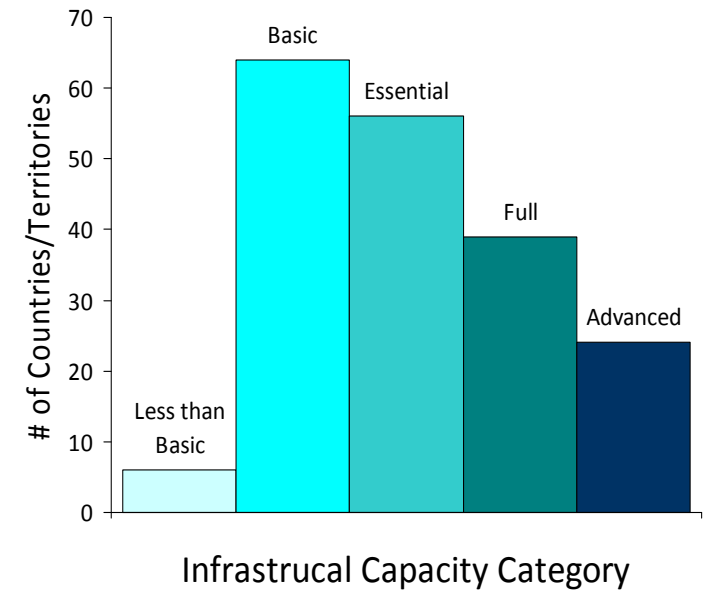
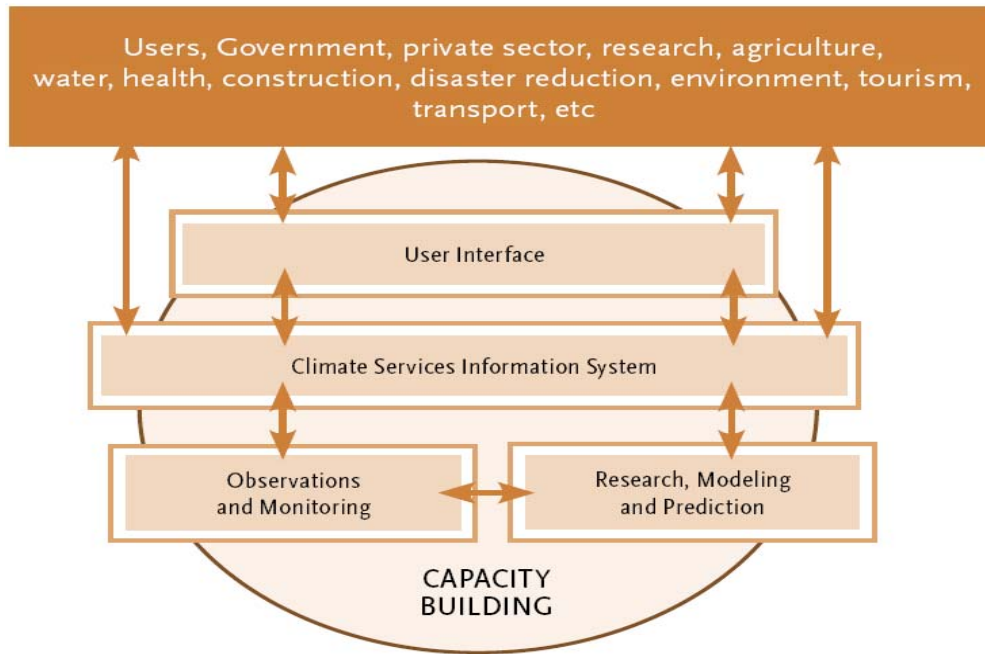


**Energy**

# Seamless hydrometeorological and climate services



# GFCS Pillars



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

# Implementation Strategies

- Development of regional frameworks & support to Regional Climate Centres
- Support to establishment of National Frameworks for Climate Services to coordinate and enable institutions to work together to co-design, co-produce, communicate, deliver and make use of Climate Services for decision-making in climate-sensitive socio-economic sectors & support to policy
- Implementation of projects
  - GFCS Adaptation Project in Africa (Malawi, Tanzania)
  - Increased Resilience in Africa (Burkina, Niger, Senegal, ACMAD)
  - Intra-ACP Programme
  - Sustainability and Effectiveness of Climate Information Services
  - [Proposal to the Green Climate Fund \(7 countries\)](#)



# Step-by-step guidelines

Going from Pilot to Scale:  
5 Steps to Achieving a Coordinated National Framework for Climate Services

Step 1: Conduct Comprehensive Baseline Capacity Assessment for Development of Climate Services

Step 2: Support NHMS to Develop Strategic Plan & Engage in a National Consultation process for Climate Services

Step 3: Develop National Action Plan

Step 4: Organize Action Plan endorsement workshop

Step 5: Begin Implementation of Action Plan, Launch National Framework for Climate Services



WORLD METEOROLOGICAL ORGANIZATION



GFCFS  
GLOBAL FRAMEWORK FOR CLIMATE SERVICES

Step-by-step Guidelines  
for Establishing a National  
Framework for Climate  
Services

WHO No. 1206

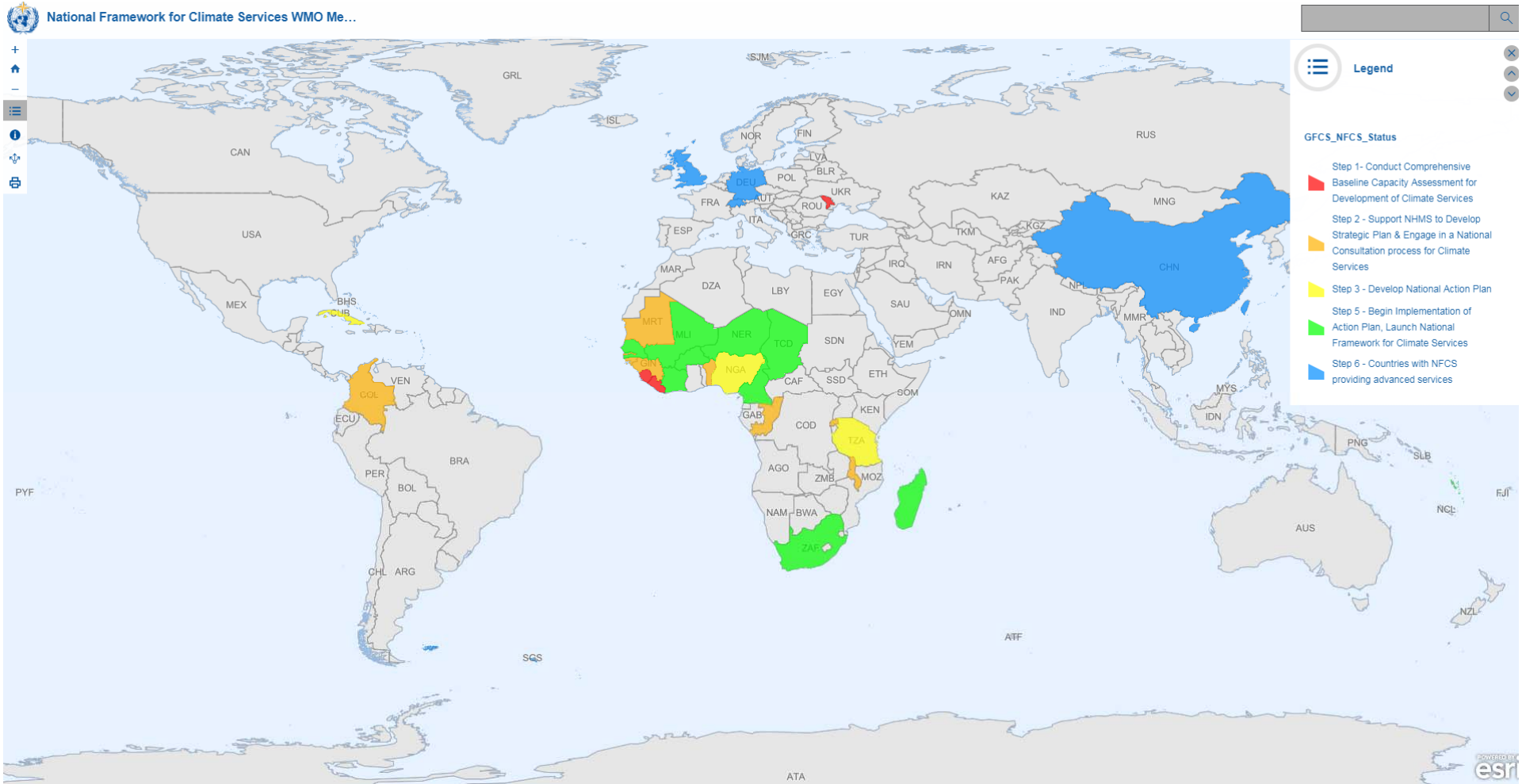


# Purpose of the guidebook

- NMHSs and their partner institutions at national level engaged under the five pillars of the GFCS to establish a National Framework for Climate Services NFCS.
- The National Frameworks for Climate Services aim to coordinate and enable institutions to work together to co-design, co-produce, communicate, deliver and make use of Climate Services for decision-making in climate-sensitive socio-economic sectors.



# Status of NFCS



# Major needs

1. **Tailored** climate information products and advisory services;
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, in collaboration with the climate research community;
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.



# 10 Pre-requisites

- 1) Provide a **strong institutional anchorage** for the Framework for Climate Services
- 2) **Meet the demand for tailored climate service** provision in the priority climate-sensitive sectors in the country (Agriculture & Food security, Health, Disaster Risk Management, Construction/Infrastructure/ Transport sector, etc.)
- 3) **Build the capacity of the NHMS** and other technical services to jointly elaborate salient climate products and services, building on pluri-disciplinary knowledge and expertise from each sector
- 4) **Improve the Communication** / widespread distribution of Climate Services
- 5) **Diversify communication channels**, use innovative channels to broadcast (aside from TV)
- 6) Modernize and increase the **density of the national hydro-meteorological observing network**, improving capacity to meet end-user needs
- 7) Improve **collaborative climate research**, towards more salient end-user driven climate research outputs
- 8) Develop and strengthen the **capacity of end-users** to further appropriate and utilize climate services
- 9) **Sustain the newly defined Framework** for Climate Services at the national level
- 10) **Engage all national stakeholders** involved in the production, interpretation, communication and utilization of climate services in a national dialogue around climate service provision, to identify country needs and charter a course for the provision of user-tailored climate services at the national and sub-national levels.



World Meteorological Organization

Weather • Climate • Water

## WMO Contributions to Intra-ACP Climate Services Project

*13<sup>th</sup> EUMETSAT User Forum*

24-28 September 2018

Abidjan, Côte d'Ivoire

# Intra-ACP Climate Services Project

**Project objective:** Foster sustainable development

Indicator:

- Progress towards **SDG 13, Indicator 13.2.1:**
  - Number of ACP countries that have established or operationalized an integrated GHG reduction and climate change adaptation policy/strategy/plan in a way that does not threaten food production



**Project outcome:** Strengthen and improve the climate services value chain in ACP countries

Indicators:

- Number of ACP Regional Climate Centers designated or in demonstration phase according to WMO standards
- Number of final climate services value chain users as served by the action
  - Disaggregated by gender, priority sector, ACP region/sub region



# Intra-ACP Climate Services Project

Proposed budget by partner (in millions)	
<b>RECs/ RegOrg</b>	€ 69.8
<b>JRC</b>	€ 5.5
<b>WMO</b>	€ 5.5
<b>ACP</b>	€3.4
<b>DEVCO contract for evaluation and audits</b>	€0.8
<b>Grand total - Intra- ACP Project Budget</b>	€ 85.

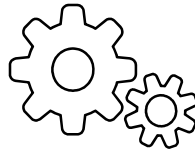
Breakdown of RECs/RegOrg Budget (rounded to nearest million)	
AUC	€ 22(-6)
CIMH	€ 9
SPREP-SPC	€ 9
ECOWAS	€ 8
ECCAS	€ 6
SADC	€ 8
ACMAD	€ 8
IOC	€ 6
IGAD	€ 8
Total budget, regional partners	€ 70





# Intra-ACP Climate Services Project

## WMO Contributions to Project Outputs



### Output 1

#### User Interface Platform

Structured interaction between the users, researchers and climate services providers in ACP regions through a User Interface Platforms

### Output 2

#### Strengthening Climate Services Information Systems (CSIS)

Provision of climate services (CS) at Regional and National level is effectively guaranteed and secured and CSIS are strengthened

### Output 3

#### Strengthening Observation and Monitoring

Access to Climate Information is improved by strengthening observation and monitoring systems, as well as Research, Modelling and prediction

### Output 4

#### Enhancing Capacity

Capacity of ACP regions is enhanced to generate and apply climate information and products relevant to their particular concerns



# Output 1



Structured interaction between the users, researchers and climate services providers in ACP regions through a User Interface Platform

		<i>WMO outputs - products/services</i>	
Activity 1.1	WMO- led €700,000	→	Overall coordination for the conception and development of the User Interface Platform.
Activity 1.2	WMO Co- led/ RECs-led €600,000	→	The AUC, African RECs, CIMH, and SPREP establish/strengthen and promote the use of regional User Interface Platforms for selected priority sector(s).
Activity 1.3	WMO Co- led/ RECs-led €700,000	→	The African RECs, CIMH, and SPREP establish/strengthen and promote the use of national User Interface Platforms (in 7 countries in total, one per sub-region) for selected priority sectors.

- Guidelines for UIP / regional framework for CS
- UIP helpdesk

- CS needs assessment
- Convene user fora/ working groups under GFCS priority areas

- Establish NFCS
- Provide forum for stakeholders on CS value chain production & application



## Output 2

Provision of climate services at Regional and National level is effectively guaranteed and secured and Climate Service Information Systems (CSIS) are strengthened

*WMO outputs - products/services*

Activity 2.1	WMO Co- led/ RECs-led €200,000	Enhance RCC Capacities to produce, deliver and improve Climate Service, through Climate Service Information System (CSIS) at regional level.
Activity 2.2	WMO Co- led/ JRC-led €400,000	Facilitate Implementation and Coordination of the Climate Services Information System (CSIS).
Activity 2.4	WMO led €500,000	Establish and Improve Climate Data Management Systems (CDMS). <sup>**</sup>
Activity 2.6	WMO Co- led/ RECs-led €500,000	Development and Demonstration of a National Climate Services production chain. <sup>**</sup>

- *Implementation plan for strengthening RCC*
- *Regionally optimized objectives*
- *Provide guidance to operationalize CSIS at global, regional & National scales*
- *CDMS implementation*



# Output 3



Access to Climate Information is improved by strengthening observation and monitoring systems, as well as Research, Modelling and prediction

		<i>WMO outputs - products/services</i>	
<b>Activity 3.1</b>	WMO Co- led/ RECs-led €200,000	Assess impact of existing gaps in climate observing networks on the produced climate services by this programme and invest in ground-infrastructure to improve such services.	<ul style="list-style-type: none"><li>- Review existing observing system against CS needs &amp; GCOS/WICOS requirements</li><li>- Provide support and oversee procurement &amp; installation</li></ul>
<b>Activity 3.3</b>	WMO Co- led/ JRC-led €200,000	Define and consolidate requirements for user driven services and provide feedback to international data providers for all 8 regions.	<ul style="list-style-type: none"><li>- Identify gaps and requirements in tailored services</li></ul>



## Output 3 Continued

Access to Climate Information is improved by strengthening observation and monitoring systems, as well as Research, Modelling and prediction

			<i>WMO outputs - products/services</i>
Activity 3.4	WMO Co-led/ RECs-led  €300,000	→ Ensure RCCs have operational access to existing climate information produced at national level through NMHSs, including data rescue (recovery and digitalisation).	- <i>Regional climate assessment and Data Set System</i>
Activity 3.5	WMO Co-led/ RECs-led  €200,000	→ Provide methods and tools for observational datasets and model inter-comparison at the regional scale to RCCs to assess which datasets are fit-for-purpose for their regions.	- <i>Regional customization of the CS toolkit</i>



## Output 4



Capacity of ACP regions is enhanced to generate and apply climate information and products relevant to their particular concerns

*WMO outputs - products/services*

**Activity 4.2**  
WMO Co-led/  
ACP-led  
€800,000  
Organize Intra-ACP Climate Services ACP yearly fora.

*- Support ACP Secretariat in developing content for the yearly For a and publication of findings*

**Activity 4.3**  
WMO Co-led/  
ACP-led  
€200,000  
Set up a dedicated Information platform/Portal to exchange best practice, make information available for specific need and encourage cooperation between the regions.

*- Support ACP Secretariat in the development of the information portal to ensure maximum visibility and usefulness to relevant stakeholders in the ACP regions*

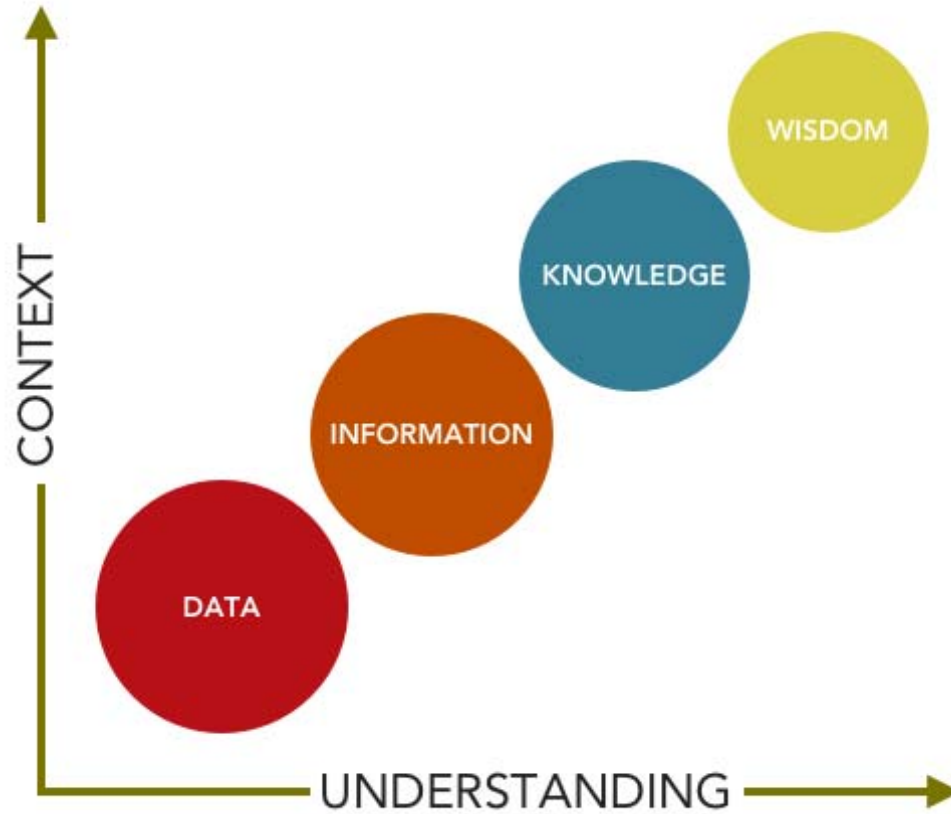
Total budget allocated to WMO through the Intra-ACP Climate Services Project

**= € 5,500,000**





# Data or information?





Thank you for your attention

# Key priorities

- Support to implementation of NFCS activities
- Promote a strong leadership of the NHMSs
- Establish a common and joint delivery Plan on Climate services at national and regional levels ( permanent inter-action RCC / MNHS / End users)
- Training on fund raising for projects development/implementation
- Training on communication and management strategies ;
- Production of high demand/tailored climate information
- Promote funding streams and coordination at national and regional levels ;
- Promote the Partnerships with regional economical and scientific institutes to support the implementation of the NFCS,