



www.acmad.ne



Elements of building domestic capacity for an effective adaptation strategy in Africa

Case of ACMAD On Job Training Program under ClimSA

Nov. 20, 2024, Baku, Azerbaijan



Prepared by the ACMAD Team
Presented by
Godefroid NSHIMIRIMANA



An initiative of the Organisation of African, Caribbean and Pacific States funded by the European Union



Faire du temps, du climat et de l'environnement des ressources pour le développement
Making weather, climate and environment resources for development



ACMAD CORES MISSIONS

Created through resolution 540 of the UNECA Conference of Ministers in April 1985 following the droughts of the 70s and 80s, ACMAD is established in Niamey-Niger since October 1992

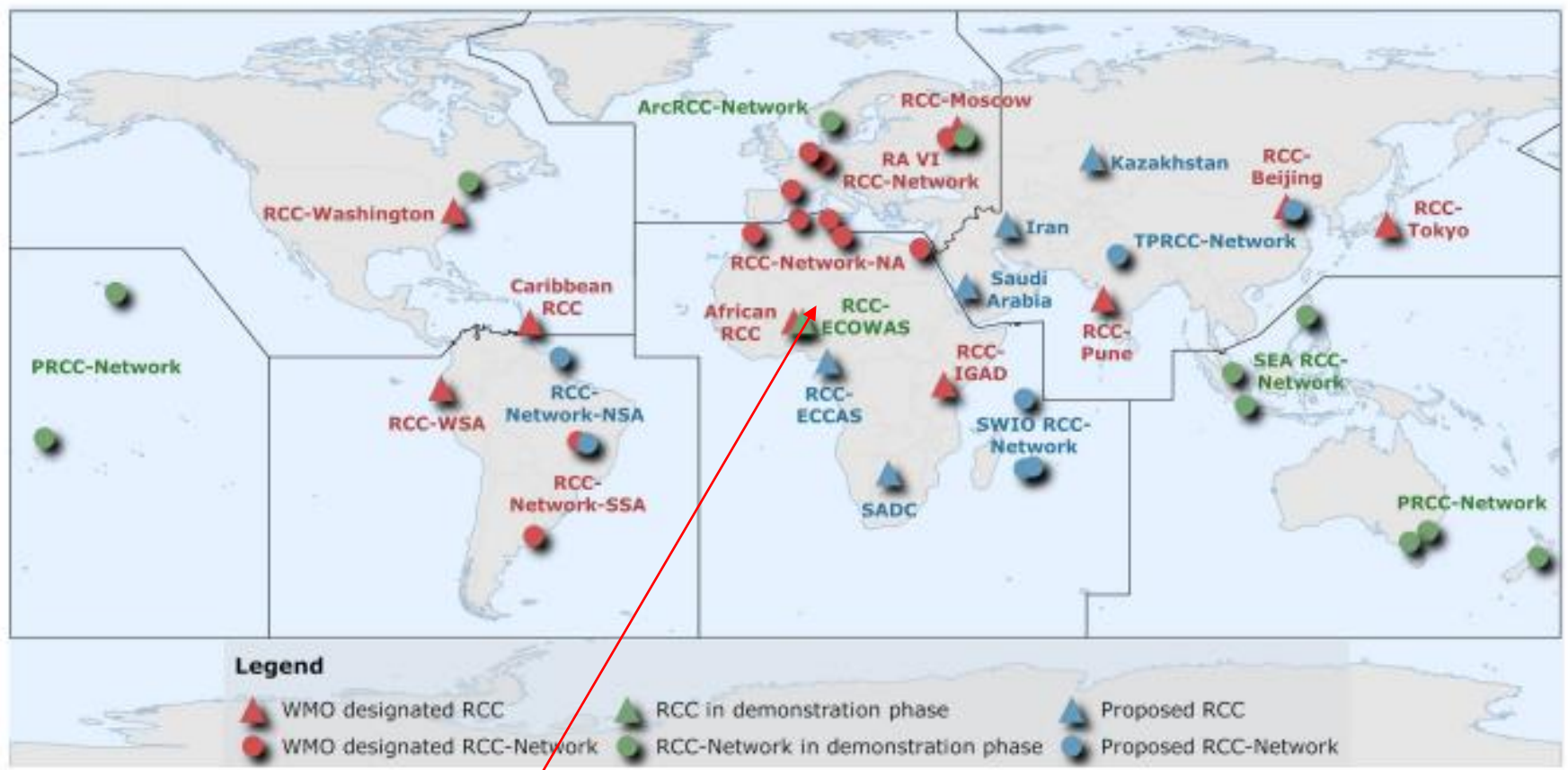
- **Continental Weather and Climate Watch Centre for Africa** with *Monitoring, forecasting and early warning* for droughts, floods, tropical cyclones and other extreme events as functions
 - ✓ *The Continental Climate Watch Centre was achieved with ACMAD designated by the WMO Congress after a successful demonstration phase as a Regional Climate Centre for Africa in May 2015;*
 - ✓ *The Continental Weather Watch Centre was achieved with the Continental Multi-Hazards Advisory Centre inaugurated in November 2022, at ACMAD providing contributions to continental watches and disaster situation reports to the situation room operations at the African Union Commission Headquarter in Addis Ababa*
- **Institution of excellence for the Applications of meteorology for sustainable development** with capacity building, methods, tools and products development, contribution to global weather and climate programs, database, research and innovation as functions



Since July 2024 ACMAD is a member of the NoE (Africa Network of Excellence for DRR)

INSTITUTIONAL FRAMEWORK

WMO RCC Status Worldwide



ACMAD

Continental Multi-Hazards Advisory Centre

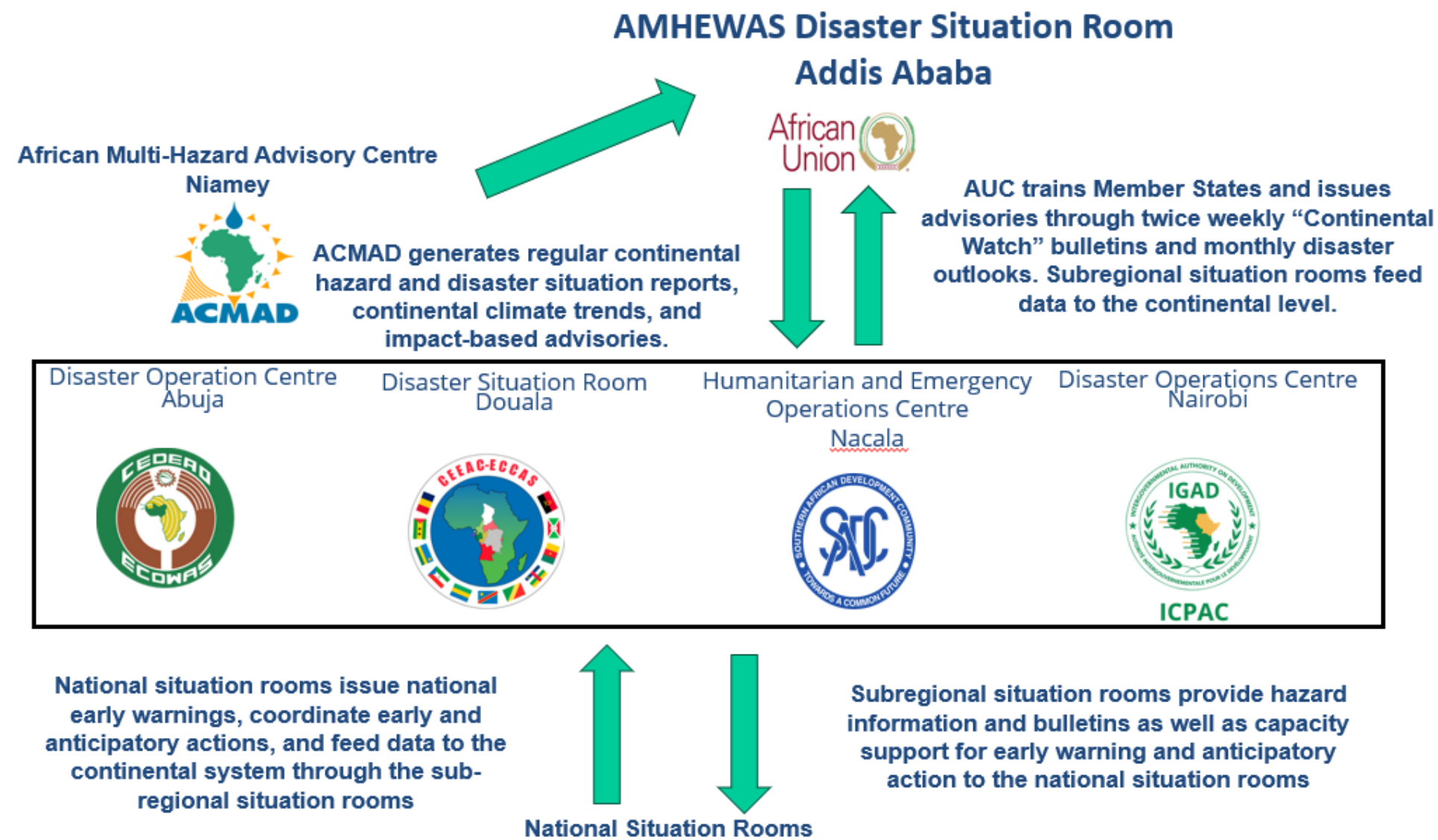




Stakeholder Involvement

- ACMAD adopted a cascading communication chain to facilitate the movement of information from its source to the final users;
- Information moves from the global forecast centres on the international scale and national meteorological services on the country scale to regional organisations such as IFRC, OCHA, national civil protection agencies, DRM, UNHCR, WHO and UNDRR as well as AUC Situation Room.

Information finally reaches other national and community level stakeholders.

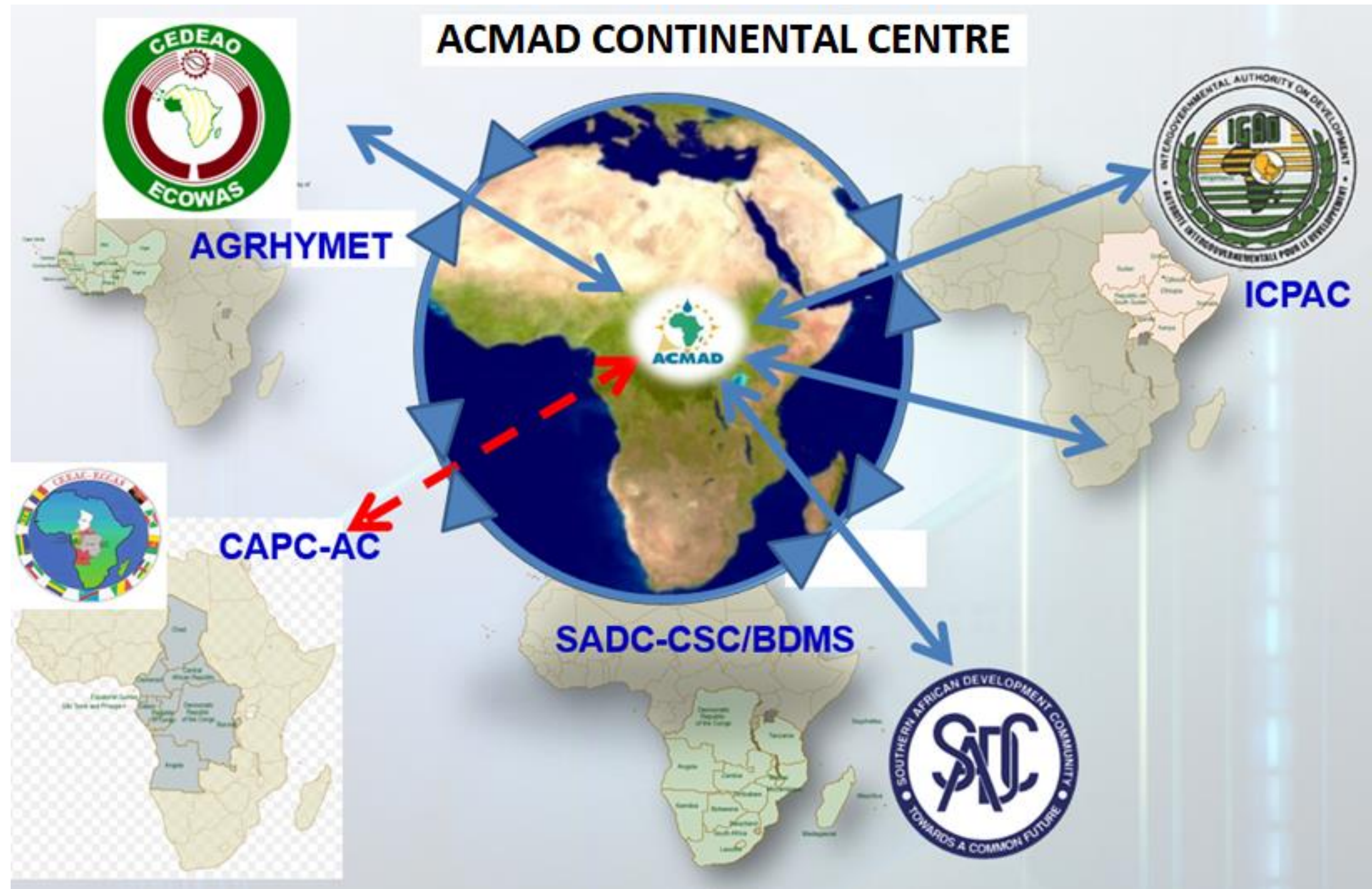


ACMAD Support the AMHEWAS program. The ACMAD Sit Room is now operational as part of the African multi-hazard early warning system for rapid action and provides twice-weekly Continental Watch, information on extreme rainfall, high winds and cyclone tracks, as well as collaborating with the AUC SitRoom and Sit Room ICPAC in the production of Situation Reports.

The centre also contributes to the organisation of ad-hoc briefings for anticipatory action.



ACMAD CONTINENTAL PARTNESHIP





ACMAD'S PRESENTATION

- **Enhance** African countries / SNMHscapability to understand, anticipate and manage the impacts of weather and climate fluctuations to support the achievement of sustainable development and poverty reduction (provide user oriented information & products);
- **Consolidate** weather / climate monitoring efforts in Africa, better understand the African weather systems (monsoon) systems and Improve forecasts;
- **Facilitate** exchange of information, experience and expertise; and strength sustainable institutional mechanisms;
- **Provide** advanced notice on potential weather and climate related hazards and information for the implementation of policies for vulnerability reduction and adaptation to climate variability and change

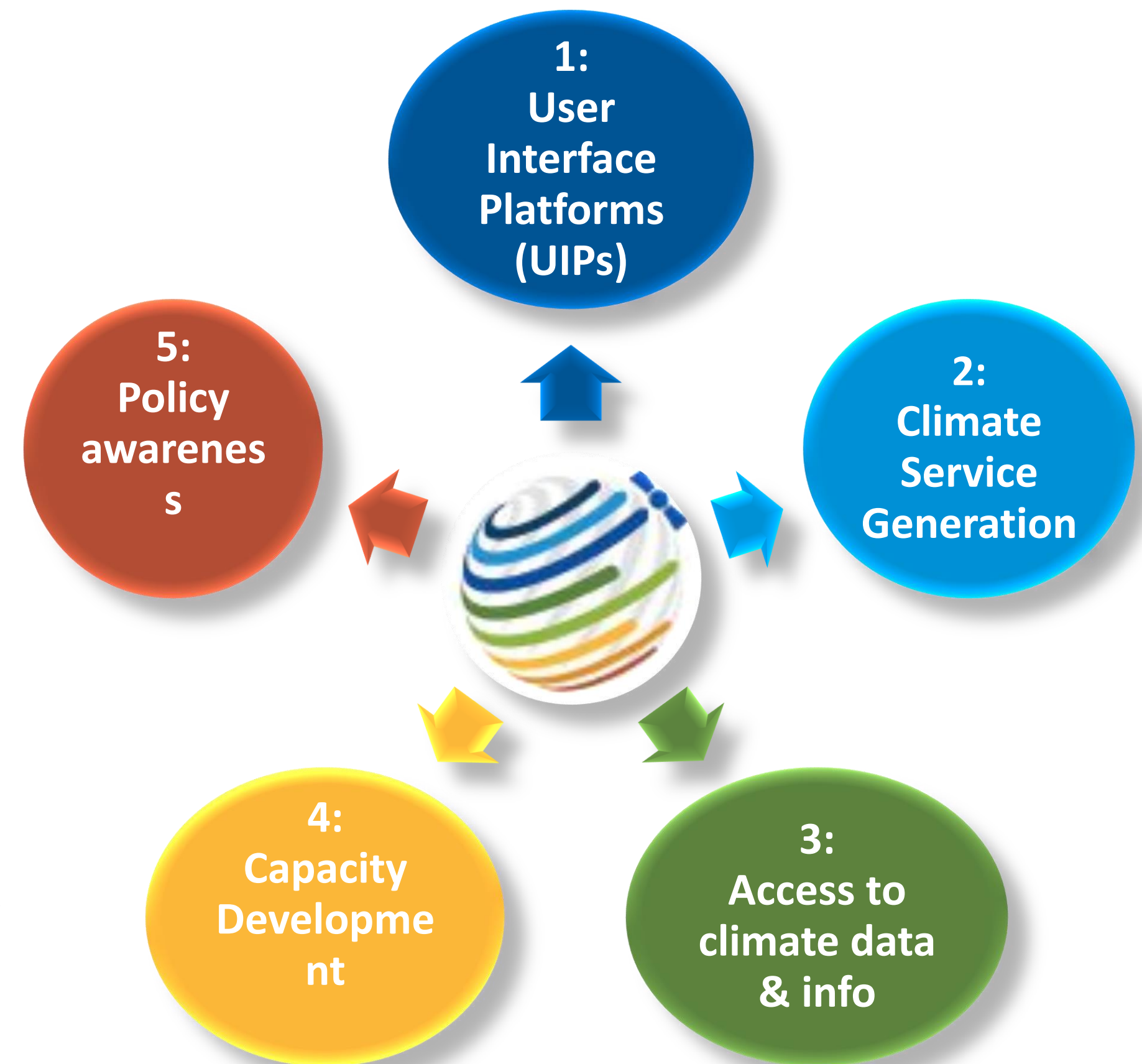


ACMAD's ClimSA Project - Outputs



Objective: *To foster sustainable development on the continent by improving the decision-making processes and practice through informed adaptation options to climate variability and change*

Purpose: *strengthen the entire climate services value chain from access to information, generation and provision of climate services, and engagement and capacity of users to ensure effective utilization of the services*





Output 4. Enhanced capacity of Africa to generate and apply climate information and products relevant to their particular concerns

➤ ACMAD Curricula, programs and materials have been updated/developed to provide training:

- ✓ on data rescue and management,
- ✓ data processing,
- ✓ analysis and visualization using state of the art tools,
- ✓ nowcasting and climate monitoring and assessment,
- ✓ synoptic and meso-scale forecasting,
- ✓ long range forecasting,
- ✓ climate change projections and scenarios,
- ✓ climate services delivery and application

➤ In Jul 2023, ACMAD provided lectures and practical sessions during the 4-week Competency course for forecaster of National Meteorological and Hydrological Services (NMHSs) from French Countries organized by EAMAC and WMO on severe weather forecasting tools including NWP and nowcasting products available to the in West and Central Africa. *The courses provided the foundations and core knowledge required to successfully demonstrate the necessary competencies in warning issuance for relevant weather phenomena*

➤ In May 2023, ACMAD attended and actively participated to the CREWS/SWFP- West and Central Africa Training Workshop on Severe Weather and Impact-based Forecast and Warning Services, organized by RSMC-Dakar and WMO in Monrovia/Liberia.





Output 4. Enhanced capacity of Africa to generate and apply climate information and products relevant to their particular concerns

- ***Training materials on verifications, climate variability and seasonal forecasting prepared and delivered to RCCs and NMHSs staff at RCOFs (PRESAC, PRESASS, SARCOF), ACCOFs, during On-the-Job Training and Secondment sessions;***
- ***On-the-Job Training and Secondment event have been organized in ACMAD at the benefit of NMHSs;***
- ***11 (05 Women) Internships have been organized with participants from the MATHEMATICAL SCIENCES FOR CLIMATE RESILIENCE INTERNSHIP PROGRAM (MS4CR-IP) of the African Institute for Mathematical Sciences (AIMS). The internship program cover:***
 - ✓ *Meso Scale Convective system monitoring, detection, forecasting and early warning in Africa*
 - ✓ *Verification and statistical interpretation of forecast performance of Numerical Weather Prediction (NWP) models.*
 - ✓ *Climate data analysis for resilient agriculture systems in Africa*
 - ✓ *Web sites, Geo portal development providing Climate Services for Africa's resilience to extreme events*

Testimonial from On Job Training Beneficiary



MODI MBOG ESTHER C.
Forecaster at the National Meteorological
Service of Cameroon



ON THE JOB TRAINEE / OCT - NOV, 2024

“ This combined training in weather prediction and communication gave me the opportunity to sharpen my forecasting skills, especially for extreme events like dust storms, heavy rainfall, and heatwaves. But more importantly, I learned how to turn science into actionable and user-friendly information that can truly make a difference ”



FORMATION-ACTION / AVRIL - AOÛT 2024

Cette formation de quatre mois à ACMAD s'aligne parfaitement avec mes aspirations professionnelles. Les compétences acquises, notamment en prévision saisonnière et en prévision basée sur les impacts, représentent une expérience précieuse pour l'Union des Comores. Elles contribueront à améliorer l'anticipation et la réponse aux défis futurs, réduisant ainsi les pertes économiques tout en garantissant la sécurité alimentaire

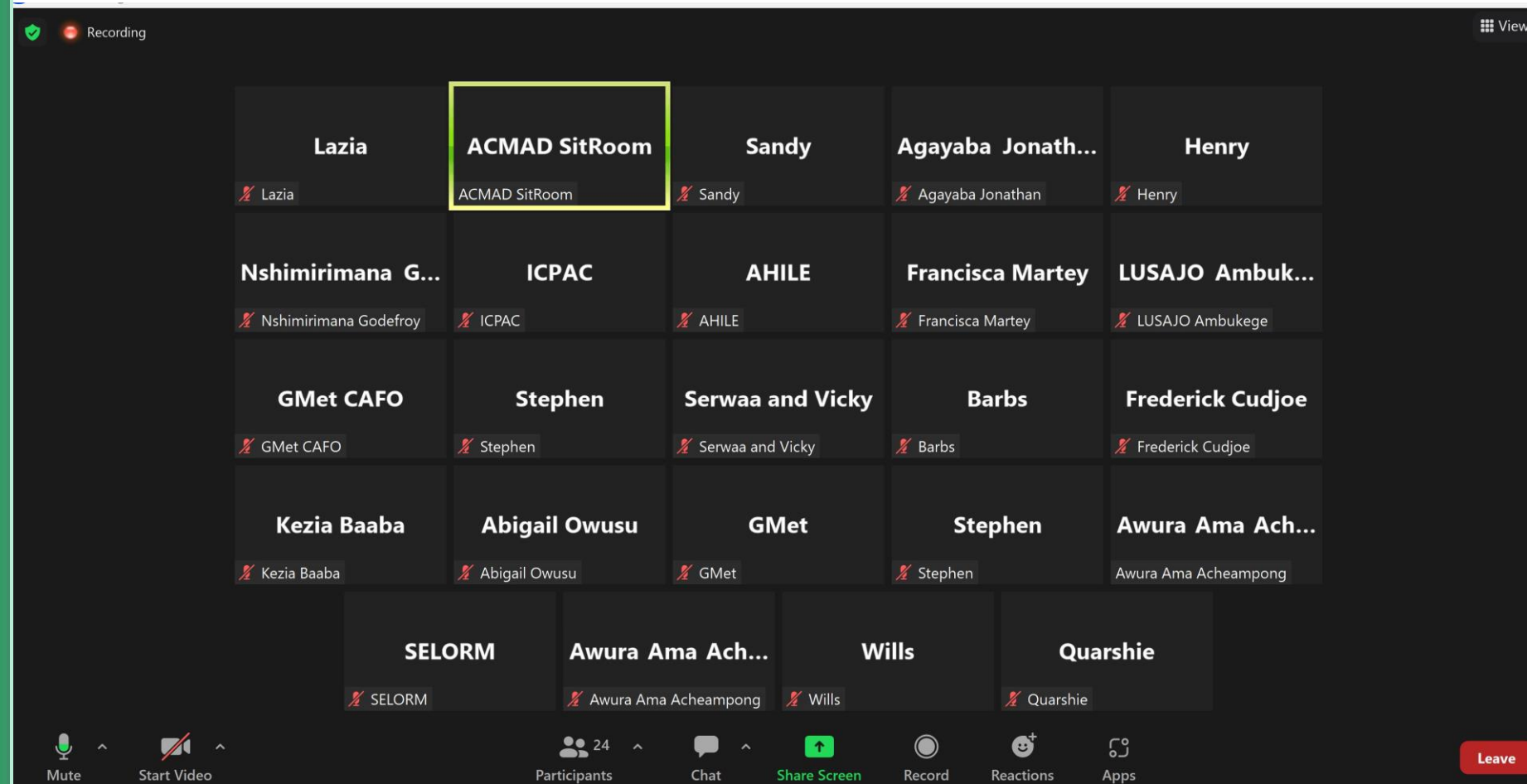
MIROIRDINE KAMARDINE
Ing. Agronome de la Direction de la
Météorologie de l'Union des Comores





Technical Briefings and Debriefing

A dedicated Information platform/Portal to exchange best practice and knowledge, improve our forecast and early warning and encourage cooperation between countries and region



ACMAD @ACMAD_org · 24 min

⚠️ flooding and landslide after heavy rainfall 📷 on June 11, 2023 in Abidjan, Côte d'Ivoire. It has been reported that at least 5 people died as a result of the landslide. ACMAD's 5-days alert map of 8 June highlighted this weather situation

[#EarlyWarningForAll](#) [#Climateservices](#)

AND POLICY BRIEF FOR HEAVY RAINFALL AND STRONG W
Valid From June 9 to 13, 2023
Issued on June 8, 2023
In Guinea, Sierra Leone, Côte d'Ivoire, Ghana, Benin, Togo, Nigeria, Cameroon, C.A

Phenomenon	Hazard	Potentials Impacts
In next 5 days accumulative rainfall (50-100mm) is likely.	Moderate rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning likely	Displacements of people due to floods, outflow of water borne diseases, damage of infrastructures (roads, bridges, ...)
In next 5 days accumulative rainfall (100-150mm) is very likely.	Heavy rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning, strong winds.	Displacements of people due to floods, outflow of water borne diseases, damage of infrastructures (roads, bridges, ...)
In next 5 days accumulative rainfall (>150mm) is very likely.	Extreme heavy precipitation, flash flood, riverine flooding, landslides, soil erosion and lightning, strong winds, severe thunderstorms	Loss of lives, injuries, Displacements of people due to floods, outflow of water borne diseases, damage of infrastructures (roads, bridges, ...)

Disclaimer: The presentation of country boundaries on the map does not concern the legal status of any country, territory or area, or concern




CHALLENGES





- **Funding constraints**
- **High demands from NMHSs**
- **End of the MATHEMATICAL SCIENCES FOR CLIMATE RESILIENCE INTERNSHIP PROGRAM (MS4CR-IP) of the African Institute for Mathematical Sciences (AIMS)**
- **Inequitable access and distribution of budgetary allocations**
- **Quality and relevance of education and training**
- **Maintenance and sustainability of infrastructures and equipment**



African Continental Climate Outlook forum ACCOF

A Mechanism to provide Continental Climate Outlook Services and improve coordination and harmonization on methods, data, tools, products and services for all Africa














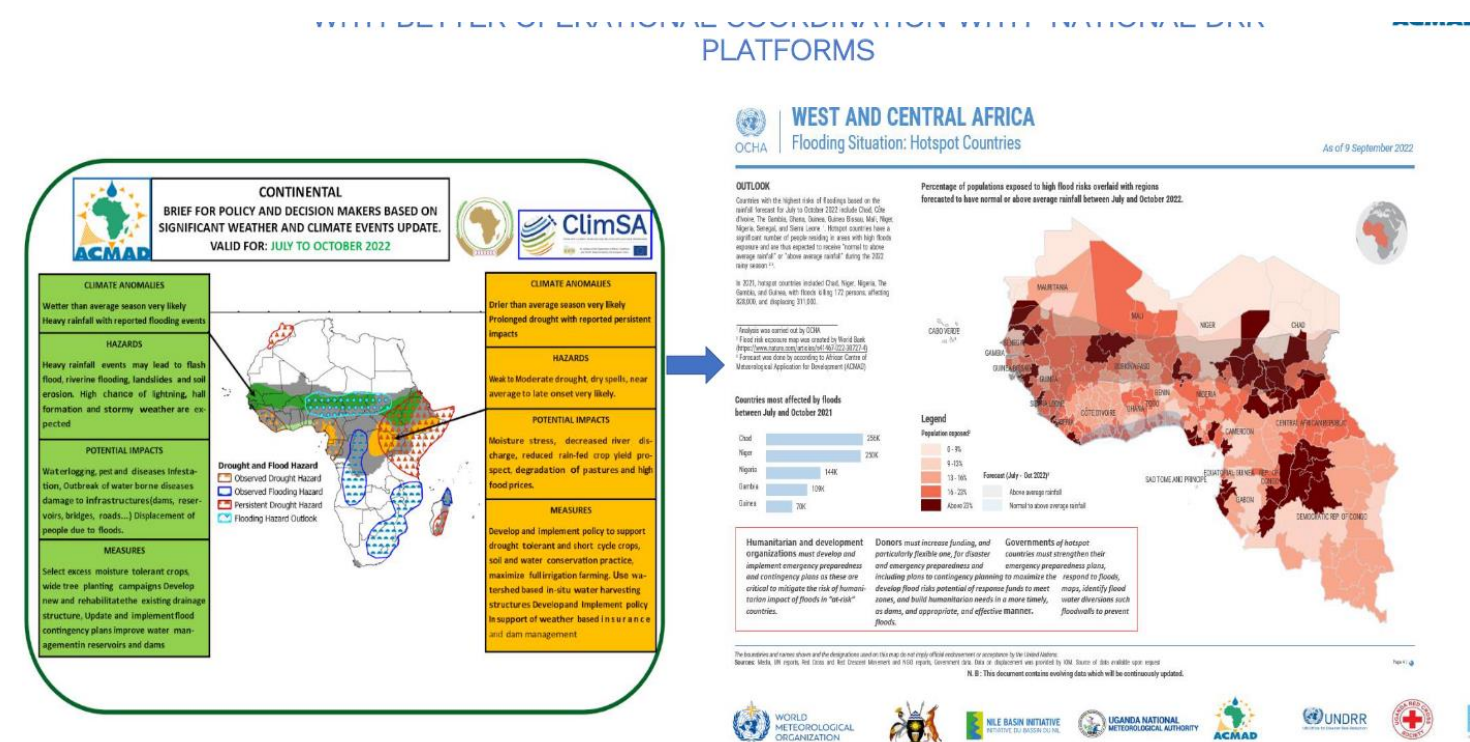


EIGHTEENTH AFRICAN CONTINENTAL CLIMATE OUTLOOK FORUM (ACCOF-18)

THEME: "IMPROVED CLIMATE SERVICES FOR INFORMED DECISION MAKING IN AFRICA"

29th October – 1st November 2024 **AngeHill Hotel, Accra, Ghana**







Capacity building user engagement session

- *User engagement sessions to share knowledge and best practices and establish a **strong feedback mechanism***
- *Training on **innovative interface for climate information production** (Africa Drought Monitoring System, Onset monitoring system)*
- *Pre-RCOF training: Downscale the continental tools at country level*



**ONLINE USER ENGAGEMENT
AGRICULTURAL SEASON ONSET
MONITORING IN AFRICA**

September 3rd, 2024 09:00 - 11:00 GMT

[Register](#)





Thank You For Your Attention