





# FINAL ANNUAL REPORT 2022-2023

at a cost



Report APFM Report No. 53



### WORLD METEOROLOGICALORGANIZATION

The World Meteorological Organization (WMO) is a specialized agency of the United Nations. It coordinates the activities of the meteorological and hydrological services of 193 countries and territories and is the authoritative voice on weather, climate and water.



### ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

The Associated Programme on Flood Management (APFM) is a joint initiative of the World Meteorological Organization (WMO) and the Global Water Partnership (GWP). Since 2001 it promotes the concept of Integrated Flood Management (IFM) as an approach to flood management.



### **GLOBAL WATER PARTNERSHIP**

The Global Water Partnership (GWP) is an international network whose vision is for a water secure world. The GWP mission is to advance governance and management of water resources for sustainable and equitable development. Created in 1996 the GWP network is open to all organizations that recognize the principles of integrated water resources management endorsed by the network.

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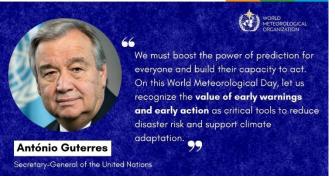
# **Executive Summary**

This Annual Report documents the activities undertaken by the APFM Technical Support Unit during the reporting period 01st August 2022 to 31st July 2023.

The Associated Programme on Flood Management (APFM) has continued to promote and apply Integrated Flood Management (IFM) strategies and approaches at local, national, and regional levels in line with the APFM Business Model. During the reporting period, the IFM Helpdesk operated by the APFM Technical Support Unit (TSU) was instrumental in providing support to the WMO Members (National Meteorological and Hydrological Services (NMHSs)), international organizations, academia, NGOs and private entities, etc. strengthening their flood management approaches. The APFM TSU is leading the implementation of various activities of ongoing WMO projects such as Volta Flood and Drought Management, CREWS Caribbean and Cambodia and Lao PDR, and Flash Flood Guidance System (FFGS) with technical support from the Support Base Partners. The APFM TSU is supporting the <u>UN Early</u> <u>Warning for All initiative (EW4AII)</u> mainly highlighting in its <u>Executive Plan 2023-2027</u> the availability of guidance or training materials on IFM including last mile connectivity along with presence of 30 plus Support Base Partners (SBPs) and their expertise to implement projects or capacity development workshops at local, national and regional levels. Just to restate, UN Secretary General mandated WMO during the world meteorological day 2022 to ensure that everyone on this planet are covered by early warning system within next five years.

Also, APFM TSU participated in the UN Water conference in March 2023, which was held after 46 years in New York. The APFM programme was presented to various participants attending from governmental agencies, international organizations, academia etc. APFM jointly with the Integrated Drought Management programme (IDMP) of WMO and GWP submitted the Water Action Agenda <u>commitment</u> to accelerate the implementation of SDG 6 and other water-related goals and targets of the countries mainly improving existing or establishing new people-centric and integrated EWS for floods and drought hazards.

The APFM TSU is continuously improving the visibility of the IFM HelpDesk (which received 75 requests in the last reporting period) at various WMO and GWP meetings, UN conferences and project workshops to inform flood managers, practitioners, and researchers about the existing IFM tools and policy documents, requesting assistance for capacity development workshops and pilot projects. The Water Youth Network (WYN) with their volunteers continued to provide support on communicating



APFM through social media and engagement of youths through the youth led EWS competition.

The APFM TSU will continue to work with other WMO technical divisions and GWP regional offices to identify opportunities for collaboration on EW4All initiative mainly through the co-development of projects on integrated flood and drought management with the involvement of the SBPs.

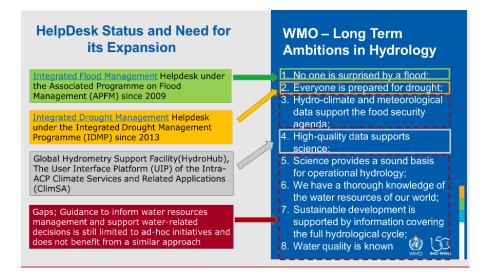
### **APFM Institutional development**

# 19th World Meteorological Congress – approval of docs related to the Hydrological Action Plan and SC-HYD Activity 7

The World Meteorological Congress (Cg), the supreme body of the World Meteorological Organization (WMO), held its 19th session from 22 May to 2 June 2023. It assembles in a hybrid model all 193 Member Countries of WMO for reviewing the strategic documents, budget for the next session 2024-2027 and other documents of the constituent bodies. During this, the congress approved the Strategic Plan 2024-2027 to promote WMO's vision that "by 2030, we see a world where all nations, especially the most vulnerable,

are more resilient to the socioeconomic consequences of extreme weather, climate, water and other environmental events." One of WMO's top strategic priorities – implementation of the UN Early Warnings for All Initiative – was the focus of the high-level dialogue on the opening day. The theme was *Accelerating and Scaling up Action at the Country Level which will strengthen the capacities of the NMHSs in developing early warning systems at local, national and regional levels.* Also, during Congress-19, elections were held for the post of new Secretary General, President, Vice-President and Executive Council Members. Prof. Celeste Saulo of Argentina has been appointed as the first female Secretary-General and the next WMO President will be Dr. Abdulla Al Mandous Director General of the National Center of Meteorology, United Arab Emirates.

The Congress session was divided into thematic days such as Services day, Infrastructure Day, Science Day, Water and Cryosphere Day, Capacity Day, etc, during which documents, and resolutions related to the particular activities were presented and approved by the WMO Members. During the Water and Cryosphere day, Doc 4.1 (9) IFM and IDM HelpDesks expansion to inform Integrated Water resources management (IWRM) related topics was presented (previously approved by WMO Standing Committee of Hydrology (SC-HYD) and Hydrological Coordination Panel (HCP) during 2023 and early 2023) later approved by the WMO Members through Resolution 19 (Cg-19). This document approval will allow APFM and IDMP to provide technical assistance to Members on the whole operational hydrology expertise covered by the eight long-term ambitions. The APFM & IDMP TSUs under the leadership of the SC-HYD will draft the Implementation plan for the expansion of the HelpDesks with the involvement of the SBPs.



# WMO Hydrological Assembly

According to Regulation 26 of the WMO, during each session of Congress the WMO Hydrological Assembly shall be convened. According to this, the 3rd session of the Hydrological Assembly was organized as an open committee of the WMO Congress. During several sessions of the Hydrology Assembly APFM and SBPs presented their on-going work (including on-going projects) carried out in various Member countries as well as contribution to EW4All initiative mainly to strengthen integrated flood and drought management capacities.

The Hydrological Assembly was attended by 292 representatives of 121 WMO Members. Among those, 68 were Hydrological Advisers, and other participants included experts from national hydrological or meteorological agencies as designated by Members. The Hydrological Assembly allows hydrologists representing Members to make recommendations on the key strategic gaps and priorities of operational hydrology for the forthcoming period. The Hydrological Assembly, noting the limited resources to implement the Plan of Action despite its alignment with the WMO Strategic Plan 2024–2027, suggested prioritizing in the upcoming financial period the following activities:

(a) Capacity development concerning in-situ hydrological observations and local hydrological services



delivery within the Earth system approach

- (b) Dialogue and cooperation between agencies involved in meteorology, hydrology and disaster management, scientific institutions, and academia in order to strengthen the links between operational hydrology and applied research
- (c) The strengthening of subregional transboundary cooperation where appropriate

# **Community of Practice (CoP) on E2E-EWS for Floods Forecasting**

The WMO community of practice on End-to-End Floods Forecasting and Early warning system (E2E-FFEWS) website developed under the SC-HYD Activity 3 is still under development before being open for public use. The SC-HYD Members are currently prioritizing the finalization and publishing of interoperable hydrological models and platforms and following that the CoP website will be finalized and operationally available for the users. The SC-HYD Members are also exploring other existing CoP available such as the recently launched GWP IWRM Action Hub to develop synergies and linkages with the WMO CoP on E2E-FFEWS.



# **APFM** implementation strategy for the next 3 years

APFM implementation strategy was discussed with the SBPs during the previous APFM SBPs forums in 2022 and 2023 and the TSU has made progress in drafting the initial strategy goal and relevant themes. The APFM strategy goal is to support Member countries establishing and strengthening Integrated Flood Management with a focus on flood early warning systems including capacity development for warning services and early action at local, national and regional levels. This will be achieved through:

- Proactively engaging and supporting countries through the UN Early Warnings for All (EW4All) initiatives.
- Continue to provide assistance on flood management related topics mainly rapid guidance on IFM, capacity development workshops and pilot projects through IFM-IDM Helpdesk.
- Ensure a Community of Practice is enhanced or improved with specific guidance tools and discussion forums on topics related to Integrated flood management.
- Strengthen community-based flood management and provide overall guidance on inclusive and people-centric flood management approaches.
- Continue designing and implementing projects on Integrated approach to floods and drought management not in silos.





As an outcome to Congress-19, WMO has started the development of a Programme on Weather, Climate, Hydrological, Marine and Related Environmental Services. This Programme should constitute the intermediary level between the Long-term Goal "Better serve societal needs: delivering, authoritative, accessible, user-oriented and fit-for-purpose information and services" contained in the 2024-2027 Strategy, and the Annual Operating Plans. The programmatic approach will allow better determining roles and responsibilities in the implementation of the 2024-2027 Strategy (including the EW4All initiative) and will be discussed at the SERCOM-3 session in March 2024 for presentation at EC-78 in June 2024. It is therefore suggested to ensure that the APFM Strategy (already linked to the WMO Vision and Strategy for Hydrology and its related Plan of Action as well as the GWP's 2020-2025 Strategy and the 2023-2025 Work Programme) will also be finalized in a way to fit in, and complement when needed, the Weather, Climate, Hydrological, Marine and Related Environmental Services Programme. The APFM Strategy will therefore be further developed in the following months and presented (in a draft form) at the next virtual SBP meeting in March/April 2024, and then to the SBP Annual Forum in August 2024.

### **APFM Business model**

APFM TSU is continuously promoting and applying Integrated Flood Management (IFM) strategies and approaches at local, national, and regional levels in line with the APFM Business Model. This is accomplished with financial resources from various sources as mentioned below:

- In-kind contributions (primarily through the provision of fixed-term staff to the TSU) from WMO and GWP as APFM is now part of the regular WMO strategy for hydrology (long term ambition 1-No one is surprised by floods) and its action plan. Over the last years, these have been the major source of contributions to the TSU.
- 2. Core funding from donor countries, such as Japan, Switzerland or the Netherlands in the past, to implement APFM core activities in the development of new guidance material, conduct capacity development workshops, outreach activities and support cost for staffing the Technical Support Unit (TSU). However, the core donor for the APFM has not been available anymore after the end of 2016.
- 3. Implementation of projects or expert services through external donors, e.g. the Adaptation Fund which allowed the provision of Volta Basin project manager to monitor the project implementation and support the core activities of the APFM. APFM is continuously looking for more opportunities through APFM HelpDesk to design and develop new projects (jointly with the SBPs) allowing the possibility for staffing and to update or development of new tools and guidance materials. Some of the other WMO projects such as FFGS in Malawi and Costa Rica, CREWS Cambodia and Lao and CREWS Caribbean allowed SBPs to provide technical support and recovery of their staff costs.

### Letter of Engagement with the Support Base Partners

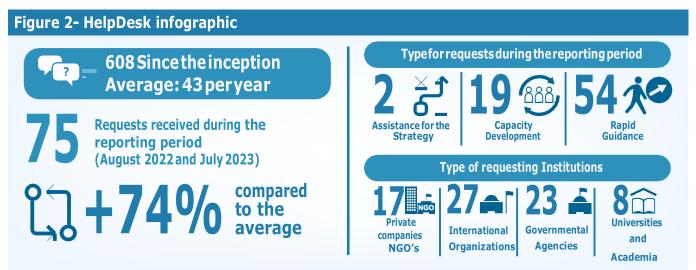
During the reporting period, some of the existing or new SBPs who have signed the new Letter of Engagement (LoE) or are presently under finalization are as below:

Name of the SBPs	Areas of cooperation
VORTEX.IO	<ul> <li>Provision of hydrological observation station</li> <li>Data science, remote sensing</li> <li>Flood and drought early warning system</li> </ul>
Asian Disaster Preparedness Center (ADPC) (renewal)	<ul> <li>Multi hazard early warning system</li> <li>Community based flood and drought management</li> <li>Capacity development on flood preparedness and management</li> </ul>
People in Need (PIN)	<ul> <li>Flood early warning system in rural and urban contexts</li> <li>Transboundary early warning dissemination and communication mechanism</li> <li>Capacity development on integrated flood management</li> </ul>

# Technical Assistance through IFM HelpDesk



The IFM Helpdesk continues to receive requests for assistance from users working on topics related to flood management and in general IWRM. In the reporting period, 75 number of requests were received from various users of IFM HelpDesk. Details about the HelpDesk request are presented in the below table (check Annex 1 for details on the requests received in the reporting period and refer to previous annual reports for earlier requests).



# Volta Flood and Drought Management (VFDM) Project (September 2022-July 2023) and the way forward

The Adaptation Fund Secretariat selected the VFDM project for a <u>regional portfolio monitoring mission</u> in order to highlight implementation experience (good practices, lessons learned, challenges etc.) that will benefit future projects submitted to the Adaptation Fund for funding. During the 3rd project technical advisory committee meeting held on 2nd December 2022, the VFDM project partners and countries informed the Adaptation Fund about the implementation delays encountered due to the global Covid-19 pandemic and requested for one year no cost extension. This was eventually approved by the Adaptation Fund Board and the project termination date is now extended until end of June 2024.

During the reporting period, the implementation of the <u>Volta Basin Flood and Drought Management</u> (<u>VFDM</u>) project activities was carried out jointly with the APFM Support Base Partners namely Centro Internazionale in Monitoraggio Ambientale (CIMA) Research Foundation, International Union for Conservation of Nature (IUCN), Knowledge and Innovation (K&I).



Figure 1: VOLTALARM EWS developed under the VFDM project and training on impact-based flood forecasting.

The below table provides a list of major planned and completed activities of the VFDM project.

Activities completed until July 2023	Activities planned from August 2023- June 2024
National consultation reports for the Six countries and Volta Basin Authority for developing EWS on floods and drought	Install the National Centralized Database (WMO Meteorological, Climatological and Hydrological (MCH) database) and integrate the existing hydrological and meteorological observation data
Feasibility study on the application of the IUCN Red List of Ecosystems and guidance documents to promote ecosystem services through Nature-based solutions in the Volta Basin are completed	Visualization of the real-time Hydro-meteorological data from the national agencies under the myDewetra VOLTALARM EWS
Development of floods and drought risk maps and climate scenarios for the Volta Basin region with the support of 61 national technicians and CIMA Research Foundation. Development of long-term flood and drought risks prevention and management strategies for the Volta Basin.	Develop the drought monitoring system for the Volta Basin region by working with the national agencies and WMO drought expert team.
Design and development of the VOLTALARM multi- hazard early warning system for stakeholders in the Basin, namely the National Meteorological and Hydrological Services, and disaster management authorities. Link to the VOLTALARM EWS https://myDewetra.volta.world	The VOLTALARM EWS will be pilot tested in 10 prone areas of the Volta Basin during the monsoon and dry seasons in order to identify the applicability and effectiveness of the early warning-early action at the community level
Provision of training to over 200 participants from project countries through distance learning courses on Basic and Advanced Hydrology, Geospatial information, drought monitoring, and early warning services and response in the Volta Basin region	Continue to review and update national and transboundary policies, action plans and institutional capacity for integrated flood and drought management and link it with the existing climate change adaptation plans (NAPA, NAP etc.).
Provision of in-person training to over 200 regional, national and local stakeholders on gender mainstreaming and nature-based solutions for flood and drought management in the Basin	Develop the phase two of the Volta Basin Flood and Drought Management project for the entire region of the six countries and submit it to donors or financial institutions for funding

Implementation of community-based flood and drought management activities in the six communities of the Volta Basin.	Build synergies and complementarities with other on-going or completed projects and visualize any available products or tools on flood and drought monitoring and forecasting system (for eg: FEWS White Volta and Oti Basin project, REWARD project)
Review of the existing policies, plans and guidelines on flood and drought management at the regional, national and local levels of the Volta Basin.	Prepare for the project closure as well as for project final evaluation by an independent consultant
Development of the impact-based flood forecasting system for the Volta basin region and regional Bulletin to develop and share it with the stakeholders	

The third-year project progress report (PPR-III) was submitted to the Adaptation Fund in September 2022, including the request for one year no-cost extension of the project implementation. Following technical review from the Adaptation Fund Secretariat, the PPR-III report was approved and the final 4<sup>th</sup> tranche of funds was transferred for the implementation of the 4<sup>th</sup> year pending project activities during January 2023.

The APFM TSU will continuously work with the SBPs to develop a sustainability plan for the project to ensure that the project outputs are operational and sustained by the countries and regional authority (Volta Basin Authority) even after the completion of the project.

### **Provision of Technical Expert Service to WMO/GWP initiatives and new Proposal Development**

### CREWS Cambodia and Lao PDR

Under the framework of CREWS initiative, WMO, together with World Bank and UNDRR is leading the implementation of Cambodia's flood and drought early warning system. The overall goal of CREWS Cambodia and Lao PDR project is to enhance the capacities of national and regional stakeholders/institutions to provide hydromet, early action and response services to ensure that vulnerable populations in Cambodia and Lao PDR are reached through effective and inclusive risk-informed early warning services. The APFM TSU with the SBPs (Asian Disaster Preparedness centre and CIMA Research Foundation) is supporting the project mainly the NMHSs and disaster management agencies with the development of national flood and drought risk maps, hydrological modelling and impact-based flood forecasting in the three pilot basins of Cambodia and Lao PDR and community-based flood management (supporting directly around 10,000 individuals) in Cambodia. The project will officially complete its implementation by July 2025.



Figure 2:mydewetra visualization platform (https://cl.mydewetra.world- under development) training session with the national agencies of Cambodia and Lao PDR

### CREWS Caribbean - Implementation of the CBFM activities in Antigua and Trinidad

The APFM TSU together with Knowledge & Innovation (SBP) were contacted by the WMO focal point of the CREWS Caribbean project to provide technical support for implementing communitybased flood management activities in Antigua and Trinidad, which was funded by the CREWS Caribbean project and is implemented jointly by the WMO, World Bank and United Nations office for Disaster Risk Reduction (UNDRR). The overall objectives of the CBFM implemented activities were to provide necessary theoretical knowledge and conduct practical exercises to increase the understanding on the concepts of floods and the different phases of flood management agencies of Trinidad and Antigua.



Both CBFM projects were successfully completed by the end of June 2023 and APFM with Knowledge & Innovation is now finalizing a Manual on community-based flood management in Caribbean which will be made available for other countries where the Caribbean where similar issues and needs are identified.



Figure 3: Community based awareness workshop and activities in Antigua and Trinidad implemented under the CREWS Caribbean project

# Community based flood management projects in Malawi and Costa Rica under the WMO flash flood guidance system (FFGS) project

Similar to the CREWS Caribbean project, APFM TSU together with the support base partner Knowledge and Innovation supported the community-based flood management (CBFM) projects in Malawi and Costa Rica, which were locally implemented by the National Red Cross societies. The project enhanced the selfhelp capabilities of the communities to the Hydro-Meteorological events including developing early warning dissemination channels and improving end users' response with gender mainstreaming. Overall, the project improved in-country response to multi-risk information and warnings through increased coordination between NMHSs and DRM authorities, and other relevant authorities at the national and subnational level and moved towards translating and communicating hydromet impact-based warnings to vulnerable communities and enable early action measures. This activity contributed to the overarching FFGS project goals addressing a critical gap in reaching the "last mile". A manual for community-based flood management is under development and will be shared with other FFGS countries to improve their warning services to communities and early action.

Short video on the community-based flood management project in Costa Rica and Malawi is available <u>here</u>.





Figure 4: Awareness workshop and activities in Malawi and Costa Rica implemented under the FFGS project

# World Bank - An EPIC Response: Innovative Governance for Flood and Drought Risk Management

During 2021-2022, APFM and IDMP TSU provided support in reviewing the draft <u>EPIC response</u> tool which was later published online for use by policymakers and practitioners worldwide. Following this World Bank requested the joint team of APFM and IDMP to provide support in the pilot testing of the EPIC response publication in West Africa and South Asia through in-country stakeholders workshops. APFM TSU organized a virtual knowledge session for the APFM and IDMP Support Base partners on the EPIC response for implementing the tool and methodology in various on-going or future planned flood and drought risk management projects.

### Gender mainstreaming workshops and finalization of the training manual

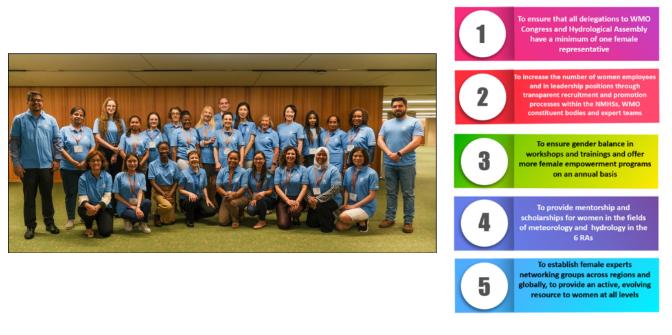
During the reporting period, the APFM TSU conducted training workshops in Costa Rica, the Caribbean and Southern Africa Development Community regions on mainstreaming gender into E2E-FFEWS and IFM. The training workshops provided the opportunity to understand the existing issues and needs related to gender and identify activities for mainstreaming gender into E2E-EWS value chain. Following the training workshops, SBP Knowledge and Innovation is supporting APFM TSU to finalize the training manual for mainstreaming gender, incorporating feedbacks and lessons learned from the above training workshops. The refined training manual is expected to be available for general use by early 2024.



Figure 5: Gender mainstreaming workshop in Caribbean, Costa Rica and SADC region

### Women hydrologists empowerment during WMO Congress-19

During the Hydrological Assembly of Congress-19, sixteen female participants (ten hydrologists, six meteorologists) from the Flash Flood Guidance system project countries were invited to the women empowerment workshop. The overall objective of workshop was to foster practical leadership capabilities mainly enhancing skills in communication, negotiation, and consensus-building. Foremost among the outcomes was the formulation of the Female Empowerment Statement, articulating five recommended actions poised for presentation at the Nineteenth World Meteorological Congress (Cg-19) and the Hydrological Assembly. The statement from the workshop is available <u>here</u>.



#### New Project development on activities related to Integrated Flood Management

• Early warning system related activities in the Lake Chad, Central Asia and Pacific regions. The APFM TSU is supporting the design and development of various WMO pipeline projects which are focussed on early warning system for floods and drought. One of the advanced project is the one of Lake Chad Basin for which the Adaptation Fund has approved the concept note and the WMO project team submitted the project proposal for review and endorsement for implementation in May 2023. Similarly, other regional project pre-concept note in Central Asia and Pacific regions are developed with the technical support of the APFM TSU and will be submitted to the Adaptation Fund for funding.

### • Hydrological Status and Outlook System in Bangladesh and Nepal (HydroSOS-BaNe)

The APFM TSU together with the WMO HydroSOS team is leading the development of the HydroSOS-BaNe project in Bangladesh and Nepal (initially planned for the region of Ganga Brahmaputra and Meghna Basin). The project will focus on the development of the HydroSOS EWS, risk maps, community-based flood management and reviewing and updating of climate change adaptation and disaster risk reduction policies at local, national and regional levels. During the 40th Adaptation Fund Board meeting held between 21-24 March 2023, the HydroSOS BaNe regional project pre-concept note was endorsed. Following this, the WMO team organized a regional workshop to review and finalize the concept note which will be submitted to the Adaptation Fund during early August 2023. The APFM TSU will reach out to various SBPs for their support in developing and implementing the specific project activities at the national and regional levels once the full project proposal is approved (expected around April 2024) by the Adaptation Fund for implementation.



Figure 6: Regional workshop in Phuket to finalize the concept note for the HydroSOS BaNe project

#### • Water at the heart of Climate Action (WHCA)

Four international partners (WMO, International Federation of the Red Cross and Red Crescent Societies (IFRC), UNDRR, and Systematic Observations Financing Facility (SOFF) are collaborating to develop the project WHCA under the framework of the UN Early Warning for All Initiative (EW4All) which will be funded by the Ministry of Foreign Affairs (MoFA) Netherlands. The APFM TSU is leading the development of the

WHCA project in the Nile Basin countries (Ethiopia, Sudan (presently on hold due to civil war), South Sudan and Uganda) and will support the targeted countries in strengthening their regional, national and local Hydro-Meteorological capacity on observation, data management, modelling and forecasting products for early warning services and early action at the local level. As agreed with the donor and implementation partners, the project will focus only on water-related hazards (especially floods and drought) observation, monitoring, and forecasting for early warning services (which are the main activities of WMO). The concept note of the project was approved and the one-year inception phase will commence in mid-August with country workshops.

#### • Other new opportunities – contribution from the SBPs

The APFM TSU welcomes new project ideas or opportunities for collaboration to support with IFM related activities development and implementation in line with the APFM Business model.

### **Resource Mobilization and Outreach**

The APFM TSU is constantly looking for opportunities to organize or attend appropriate events and conferences where its available resources and expertise can be presented to a wider audience. The programme outreach will also help disseminate existing tools and expertise, identifying new avenues for partnerships especially attracting donors to fund the core activities or pilot projects. Some of the events actively organized or attended by the TSU are highlighted below:

# APFM 20<sup>th</sup> Anniversary celebration during WMO SERCOM-2 session and outreach stand during Congress-19

APFM TSU continued the 20<sup>th</sup> Anniversary celebration of APFM with an interactive side event during the WMO SERCOM-2 session which was attended by more than 70 Member countries' representatives working in the national meteorological and hydrological services. On one hand, the side event served as an opportunity for the APFM TSU to raise awareness among Member countries regarding the APFM programme's IFM guidance materials and requesting support via the IFM Helpdesk. On the other hand, it served as a platform to enhance the visibility of APFM activities.



Figure 7: APFM 20th Anniversary side event organized during the WMO SERCOM-2 session

Also, APFM TSU also had a stand for disseminating APFM products and availability of IFM HelpDesk to Members for requesting assistance on flood management related tools, capacity development or pilot projects.



### Second Global Integrated Flood and Drought Management Competition for Youth-led Projects

Following the success of the two youth-based project competitions organized in 2017 and 2022, the second edition Global Integrated Flood and Drought Management Competition for youth led projects on flood and drought early warning services was organized jointly by APFM, IDMP and Water Youth Network (WYN) during June-July 2023. It is this year for the first time the Youth component of the <u>Water</u> <u>Changemakers Award</u>. More than 35 project ideas were submitted by youths worldwide; following a series of screening and pitching sessions, 14 project ideas were shortlisted for the second round mainly to develop a detailed concept note. Out of 14 shortlisted projects and the quality of the concept note, only 5 or 6 projects will be selected by end of August 2023 for the pitching to the Jury. The Jury, composed of WMO, GWP and WYN will select one or two winners for implementing their project with a financial support of 3000 Euros per project from WMO and GWP. The two competition winners will be invited to present their project information during the virtual session of the APFM SBP forum.

#### WYN volunteers and social media outreach

Eight volunteers from WYN continue to provide support in APFM's social media outreach activities. In the last reporting period, more than 30 APFM activities or project related events were disseminated under the APFM website and social channels such as Facebook, Twitter and LinkedIn where some of the SBPs are active and are provided with regular information. The Volunteers are also supporting in disseminating activities of IDMP as well as in organizing the youth-led project competition. APFM TSU is thankful for the in-kind contribution of WYN to support APFM's core activities.

### Flash Flood Guidance System Global workshop- APFM visibility

APFM TSU participated in the second Global Flash Flood Guidance System (FFGS) workshop organized in Skopje, North Macedonia during the week of 19<sup>th</sup> May 2023. More than 200 participants from 60 plus countries attended the one-week hybrid workshop to share their experience of using FFGS system and discuss the way forward. APFM TSU participated in the session on 'From knowledge to action: Reaching the "Last Mile" with the representative from Costa Rica and Malawi and shared the importance and experience of implementing community-based flood management activities to improve last mile connectivity and early response action.



Figure 8:APFM TSU is presenting community based flood management activity to FFGS workshop participants

### APFM participation in the Europe-INBO 2022 conference

Thre APFM TSU was invited to participate in the Europe-INBO 2022 conference which was held in Annecy during September 2022. During the session-5 on Transboundary and international cooperation, APFM TSU member Dr Hwirin Kim presented information on APFM related activities mainly VFDM project as a successful example of transboundary cooperation and management of flood events in the Volta Basin countries.



# The way forward

For the next period, the APFM TSU with some of the SBPs will continue implementing pending activities (planned between August 2023 and July 2024) and officially close the Volta flood and drought management (VFDM) project. The TSU will continuously update all SBPs regarding the implementation of the project activities with the developed tools, methodologies and success stories learned in flood and drought management so that it can be applied in other regions.

In parallel, the APFM TSU will continue to develop or implement new projects focusing on E2E-EWS-FF (Integrated Flood and Drought management in general) in various regions (national, transboundary) mainly supporting the UN call on early warning system for all in the next 5 years such as WHCA, HydroSOS BaNe, community-based projects through CREWS initiatives, FFGS, Early Warning System for Flood in MHEWS environment. The APFM request for active participation of the SBPs as well as identify new opportunities through GWP, particularly its Regional and Country Water Partnerships (RWPs and CWPs). These would be submitted to the relevant call for proposal or financial institutions such as European Horizon, adaptation fund, global environment facility or national foreign affairs of EW4All supporting countries.

The APFM TSU will continue to work with relevant WMO constituent bodies to support core activities of the APFM such as the IFM HelpDesk management and expansion to IWRM related to topics, Community of Practice, Communication and Outreach, and Coordination with the SBPs.

Furthermore, APFM will continue to regularly collaborate with the SBPs through the virtual SBP forum, for example, through webinars or meetings which will be held every 3-6 months. This would allow periodical engagement with the SBP network to provide updates, brainstorm and discuss possible ideas or synergies in project proposal development, expertise service, communication, and outreach.



**World Meteorological Organization** 7 bis Avenue de la Paix 1211 Geneva Switzerland