

APFM

Associated Programme on Flood Management

Advisory Committee Meeting

Geneva, 12 September 2016







APFM achievements during 2015-2016

Recommendations	Status		
(as per checklist in Annex III)	completed	ongoing	pending
General points for considerations	1	2	4
Publications and Tools, of which:	9	5	11*
- Low Priority	-	-	1
- Medium Priority	-	1	5
- High Priority	9	4	5
Capacity Building (training-related), of which:	3	11	1
- Undefined Priority	-	-	-
- Medium Priority	-	4	-
- High Priority	3	7	1
HelpDesk (project support)	6	6	-

(continues)





APFM achievements during 2015-2016

(continued)

Recommendations			
(as per checklist in Annex III)	completed	ongoing	pending
Outreach, of which:	10	4	5
- Undefined Priority	-	-	1
- Medium Priority	-	-	-
- High Priority	10	4	4
Other issues (reporting and evaluation)	3	-	-
Total Recommendations: 76	32 (39%)	28 (34%)	21 (25%)







APFM achievements during 2015-2016

Activity (according to Activity Plan)	Score (achieved/planned *)
Policy Series (new editions, case studies)	55 % (1.65/3)
IFM Tools (new, revised or finalized)	49 % (10.4/21)
New IFM materials for training	36 % (3.65/10)
Training workshops	68 % (3.4/5)
Technical Support	90 % (4.5/5)
Institutional Support	80 % (4/5)
Funding Support	25 % (0.5/2)
Advocacy at international events	74 % (5.2/7)
Implementation of communication strategy	61% (3.66/6)
SBP service packages	13% (0.4/3)







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Publications





Colour Coding



Low priority

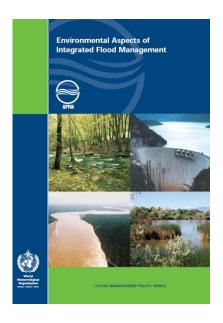
Medium priority

High priority



IFM Policy Series

Progress

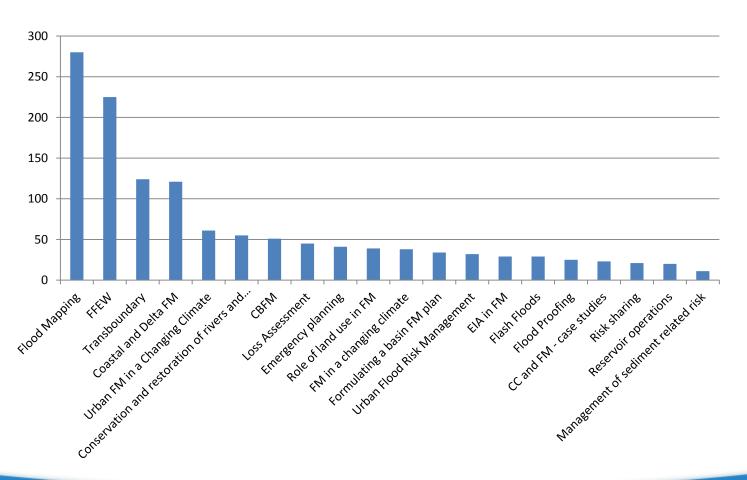


- Primer Under finalization
- Environmental Aspects of IFM Case Studies Under finalization
- IFM Concept Paper 4th edition No progress
- Economic Aspects of IFM (revision) No progress





Number of downloads per Tool (August 2015 – July 2016)



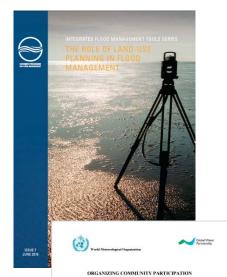


Good news! 6 Published tools



- The Role of the Media in IFM
- Public Perception of Flood Risk and Social Impact Assessment
- Effectiveness of Flood Management Measures
- Reservoir Operations and Managed Flows ver. 2.1
- Health and Sanitation Aspects of Flood Management
- Technical Assistance for the Preparation on an Advocacy Strategy (English and Spanish)





Another good news! Content finalized, in final design

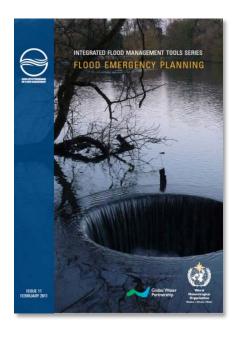
The Role of Land-Use Planning in Flood Management

Being Edited

- Organizing Community Participation for Flood Management ver. 2.0
- Crisis Mapping and Crowdsourcing in Flood Management







Under revision

Flood Emergency Planning 2nd Edition

Under development

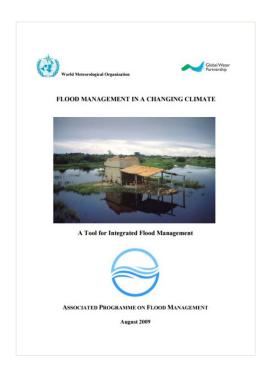
Loss Assessment Case Studies







Dropped

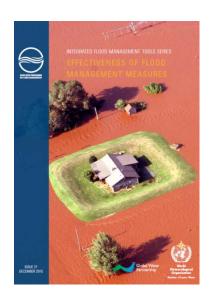


- Regulations and Technical Standards for Flood Management (outdated)
- Flood Management in a Multi-hazard Environment (no input from SBPs)
- Flood Management in a Changing Climate
- Governance Issues in Flood Management





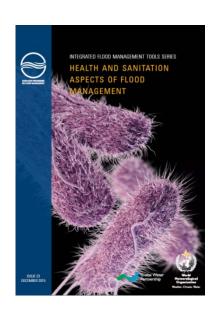
No progress – reaffirm priority, volunteers?



- Project Cycle in Flood Management
- The Contribution of Geospatial Science to Flood Management – CIMA
- Rapid Legal Assessment 2nd edition University of Dundee
- New Tool on green infrastructures for Flood Management,
 linking to the WWF/USAID Flood Green Guide Deltares
- Historical Approaches and Coping Strategies for Flood
 Management
- Formulating a Transboundary Basin Flood Management
 Plan



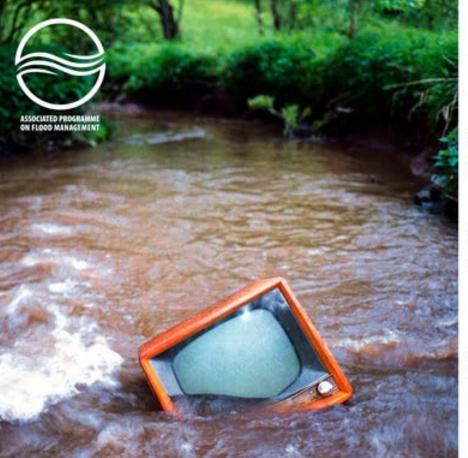
Activity Plan 2016-2017



- Collect feedback from SBPs on the usefulness and impact of IFM Tools
- Finalization of planned publications:
 - Land-use
 - Crowdsourcing
 - CBFM 2nd ed.
 - Environmental Aspects of IFM Case Studies
 - Loss Assessment Case Studies
- Increase visibility of IFM Tools by developing specific infographics







WHAT ROLE CAN THE MEDIA PLAY IN INTEGRATED FLOOD MANAGEMENT?





BEFORE A FLOOD

- Provide information on communities' vulnerabilities
- Advocate for institutional action for flood management
- Raise awareness
- Translate technical terms into easily understandable language
- Increase public interest and participation

DURING A FLOOD

- Provide timely information on conditions and needs of affected people
- Disseminate warnings and information on the situation
- Share actions undertaken by the authorities
- Suggest what to do/not to do
- Facilitate communication between those affected

- A FLOOD
- Continue providing information on conditions, needs, requests and complaints of those affected
- Keep attention high

- Share the authorities' current and future strategies
- Help direct donations
- Improve preparedness
- Guide people's reactions





Tweeted on 31 August from the UN-Water account: 3,368 impressions, 14 re-tweets, 12 link clicks, 16 media engagement







Activity Plan 2016-2017 (continued)



- Possible development by SBPs (out of IFM Tools series):
 - RLAT 2nd ed.
 - Transboundary basin FM plans
 - Geospatial in FM
 - Project Cycle in FM
 - Green infrastructures for FM
- And... New suggestions:
 - Stop development of new IFM Tools
 - Limit revision of existing publications to feedback received
 - Bigger support for IFM implementation (e.g. elearning courses, workshops & trainings, capacity building for project proposals)



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HelpDesk







Colour Coding



Low priority

Medium priority

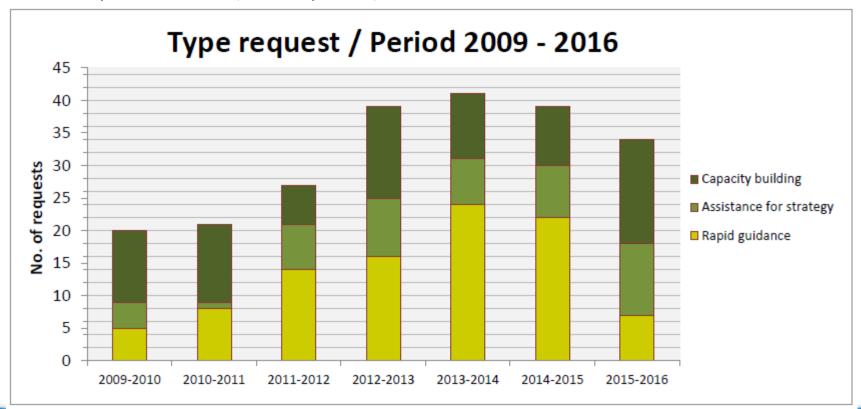
High priority



Overview

34 requests received through the HelpDesk, of which:

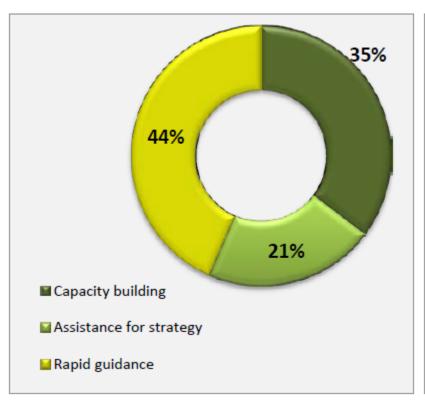
- 11 Assistance for Strategy (6 completed, 4 ongoing, 1 withdrawn)
- 16 Capacity Building (14 completed, 2 ongoing)
- 7 Rapid Guidance (all completed)



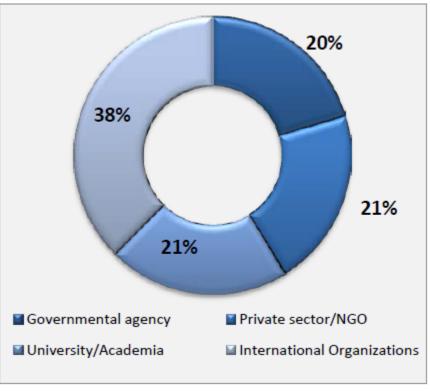


Overview 2009-2016

Requests by type



Requests by institution



Four new SBPs:

FICH - Argentina

PROHIMET

UNU-FLORES

Three almost SBPs:

TU Dresden

Polytechnic Milan

Alterra –

Wageningen Univ.







Training materials

- Training manual with GWA on Gender issues of Flood Management detailed concept developed
- World Bank e-learning on the role of Land Use Planning in Disaster
 Management feedback and materials provided
- Training modules in Spanish for local Civil Protection authorities in Paraguay and Latin America – under development (with WMO Mexico)
- GWP/University of South Florida on Integrated Urban Flood Management (IUFM) – developed and tested
- 4 new presentations on IFM Tools developed (2 by external partners)
- IFM Training Manual feedback on review collected from SBPs
- CBFM Training Manuals Thailand case study under finalization; preliminary revision started of the BCAS







Training materials (continued)

- BoM to contribute with modules on competency-based trainings on flood forecasters – identified as long term activity
- Develop action plan on E-learning with TUHH and TUD teleconferences held, activity on hold
- University of Geneva proposed to add transboundary issues of FM modules to their training platform, in cooperation with University of Dundee
- Materials on IFM and IDM provided to GWP Southern Africa for the Limpopo basin

Training workshops held in:

- Montepellier, France ICID 66th Executive council
- Zagreb, Croatia ISRBC workshop on flood risk management
- Thun, Switzerland Helvetas Face-to-Face event
- Asunción, Paraguay National Conference on Water Resources



Training Proposed Activities

Training materials – finalize:

- Training manual with GWA on Gender issues of Flood Management
- Training modules in Spanish for local Civil Protection authorities
- IFM Training Manual feedback on review collected from SBPs
- Power Point presentations on remaining IFM Tool Series
- CBFM Training Materials
- Action plan on E-learning with TUHH, TUD, University of Geneva and Dundee
- Action plan of training materials for WWF Flood Green Guide





Training

Proposed Activities

Training workshops to be held in:

- West Africa regional advocacy for the NMHSs and the Regional GWP network
- Montevideo, Uruguay RALCEA course in cooperation with FICH
- Zurich, Switzerland at ETH
- Antalya, Turkey training on Basin flood management planning in the framework of IPA-FLOODS with CIMA
- Discuss needs in support to IGAD-HYCOS activities





National and Regional Support

2.3.2 and

Review and Proposed Activities

- Implementation of IFM strategies in West Africa
- PEARL Preparing for Extreme And Rare events in coastaL regions (with UNESCO-IHE, TUHH, Euroaquae, DHI, ICHARM and others)
- Community Based Flood Management (CBFM) in Thailand and Lao (review)
- Instrument for Pre Accession (IPA) and Horizon 2020 support to consortia
- Mexico PRONACCH
- Linkages with GFCS, CIFDP, FFGS and SWFDP Flood Forecasting Initiative
- Seek synergies with RA III and other WMO activities (e.g. Malawi/GFCS, DRR, GHSF, TCP, CIFDP/Bangladesh)
- Following developments on CBFM in Iowa State and FLODDSS
- Seek funding opportunities for Transboundary issues in the Dniester and other activities
- Support GWP Caribbean, South Asia, S-E Asia, Central Africa and Southern Africa
- WMO urban cross-cutting issues and IAEA Flood Hazard activity
- Support IFM in the Amur River Basin and in Siberia
- Support to China GWP in the adoption of IFM







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Outreach









2 Newsletters published 1700 subscribers



15 international events 6 presentations given





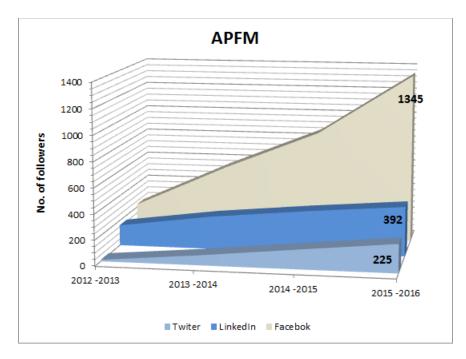
2 articles presented at conferences

See section 2.4.1-2-3









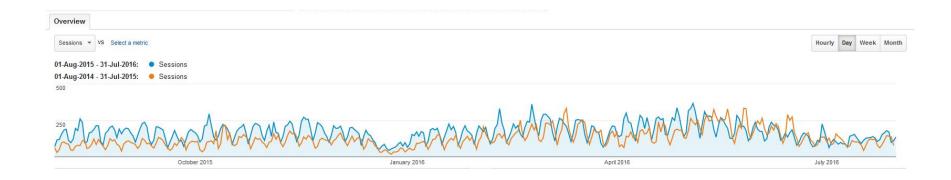
SOCIAL NETWORK	FOLLOWERS	TREND from 1 August 2014
Facebook	1345	+56% (+481)
Twitter	225	+48% (+73)
LinkedIn	392	+18% (+60)

See section 2.4.5



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32.6% increase in sessions

31.7% increase in users

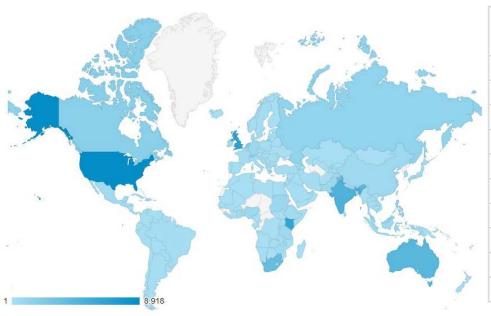
2,258* downloads of Tools

See section 2.4.4









Rank	Country	Number of sessions and % of the total
1	United States	8,918(14.33%)
2	United Kingdom	6,659(10.70%)
3	Kenya	6,283(10.09%)
4	India	4,889(7.85%)
5	Australia	4,312(6.93%)
6	South Africa	3,571(5.74%)
7	Netherlands	1,751(2.81%)
8	(not set)	1,729(2.78%)
9	Canada	1,670(2.68%)
10	Switzerland	1,625(2.61%

See section 2.4.4







Proposed Outreach Activities



Active crosspromotion with SBPs



Draw attention to existing tools



Online catalogue of services



Engage Palais de Nations press corps

See section 4.4







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End of day one

Thank you!







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Associated Programme on Flood Management

Advisory Committee Meeting – Day 2

Geneva, 13 September 2016





Flood Forecasting Initiative

The Flood Forecasting Initiative (FFI) is a framework to promote the enhancement of flood forecasting capabilities of National Meteorological and Hydrological Services (NMHSs).

Task 1: by ensuring that all major demo projects and components, including but not limited to CIFDP, SWFDP, FFGS, include the requirements/best practices for effective* and sustainable flood forecasting in their design and implementation;

Task 2: by ensuring guidance material is available for NMHSs and for donors, NGOs, and other organizations working to strengthen flood forecasting capabilities in national services;

Task 3: by facilitating the development of an inventory of existing training programmes and related reference materials across the entire spectrum of training needs for E2E systems for flood forecasting, identifying weaknesses/gaps, and recommending development of additional materials to overcome weaknesses/fill gaps;

Task 4: by ensuring access to guidance material and training through the IFM HelpDesk.

(from FFI Workplan 2016-2019)







Flood Forecasting and Early Warning Systems (main components as per WMO No. 1072)

- a) Collection of real-time data for the prediction of flood severity, including time of onset and extent and magnitude of flooding;
- **b)** Preparation of forecast information and warning messages, giving clear statements on what is happening, forecasts of what may happen and expected impact;
- c) Communication and dissemination of such messages, which can also include what action should be taken;
- d) Interpretation of the forecast and flood observations, in order to provide situation updates to determine possible impacts on communities and infrastructure;
- e) Response to the warnings by the agencies and communities involved;
 - **f)** Review of the warning system and improvements to the system after flood events.

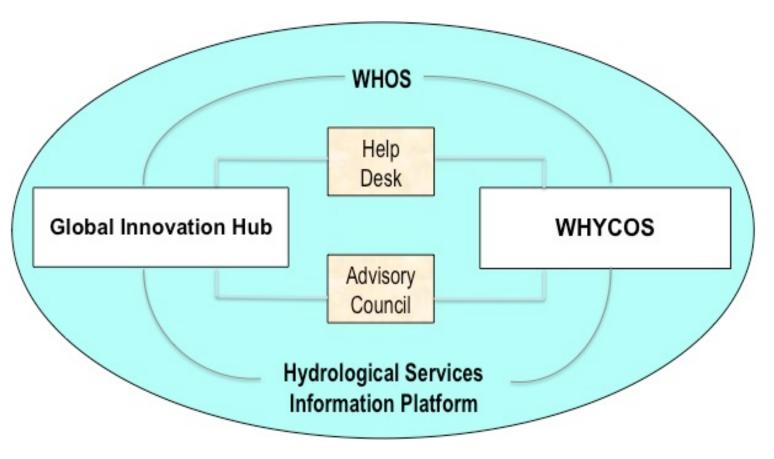
The above need additional institutional arrangements to ensure transboundary cooperation







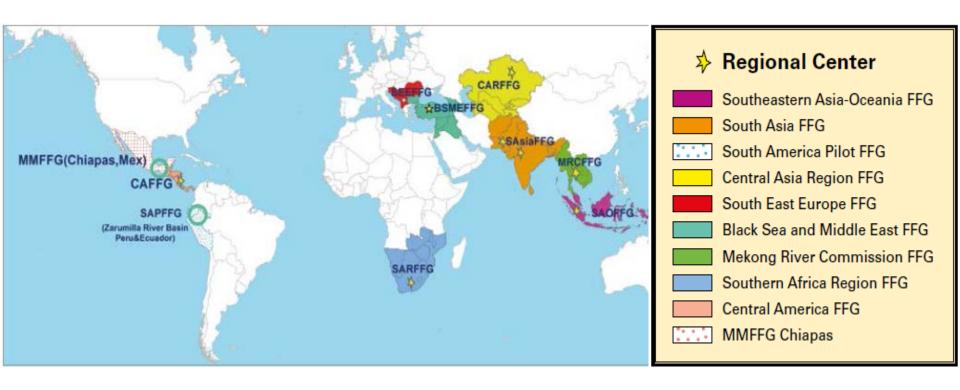
WMO Global Hydrometry Support Facility (GHSF)







Flash Flood Guidance System (FFGS)



The Flash Flood Guidance System with global coverage consists of eight regional FFGSs in different stages of development and operational use. Four systems are operational, initial versions were implemented for four, and one is under development



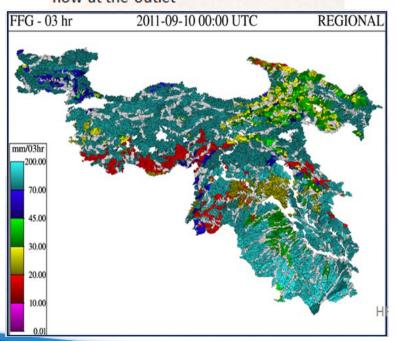


Flash Flood Guidance Products

DIAGNOSTIC

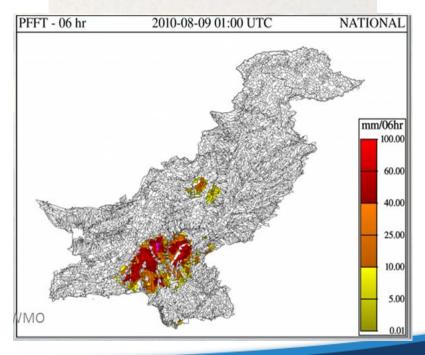
Flash Flood Guidance - volume

of rainfall of a given duration (1-6 hours) over a given small catchment that is just enough to cause bankfull flow at the outlet



PROGNOSTIC

Flash Flood Threat — rainfall of a given duration in excess of the corresponding Flash Flood Guidance value (existing/past or "forecast" rainfall)







DEWETRA Platform

- Combining real-time observations with different forecast scenarios
- Multi-hazard integrated platform covering floods, forest fires landslides



- Interconnects different databses (vulnerability, hazard, assets, etc.)
- Incorporates and customizable various forecasting models
- Possible coupling with the FFGS
- Made available to requesting countries through an open source license agreement between WMO and the Italian Civil Protection (signed on 24 March 2014)







Flood Forecasting Initiative

CHy initiative Promoting the concept of End-to-end (E2E) Flood Forecasting and Early Warning

Real-time data collection

Modelling and Forecasting

Early Warning dissemination

Decision Support

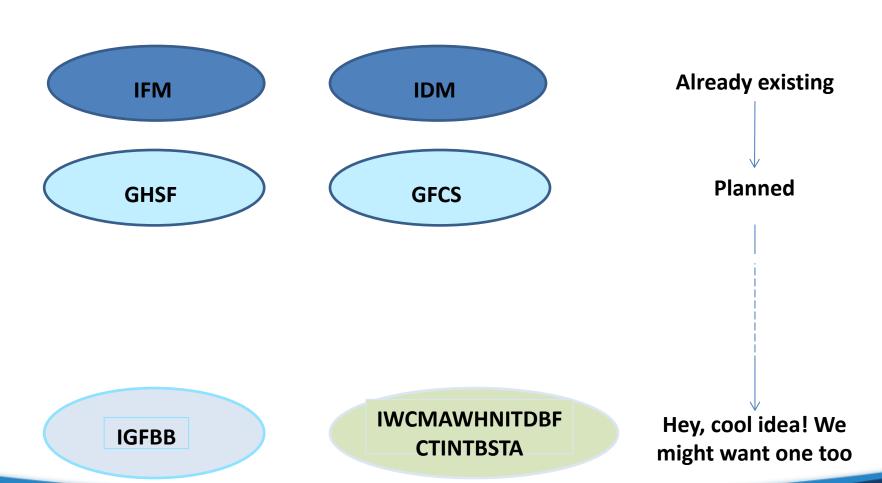
Response to warning

Umbrella to coordinate synergies between WMO activities such as:

- GlobalHydrometryServiceFacility(GHSF)Project X
- Flash Flood Guidance System (FFGS)
- Coastal Inundation Forecasting Demonstration Project (CIFDP)
- Severe Weather Forecasting Demonstration Project (SWFDP)

- Associated Programme on Flood Management (APFM)
- DEWETRA Platform
- Preparing for Extreme And Rare events in coastaL regions (PEARL)

HelpDesk or HelpDesks?



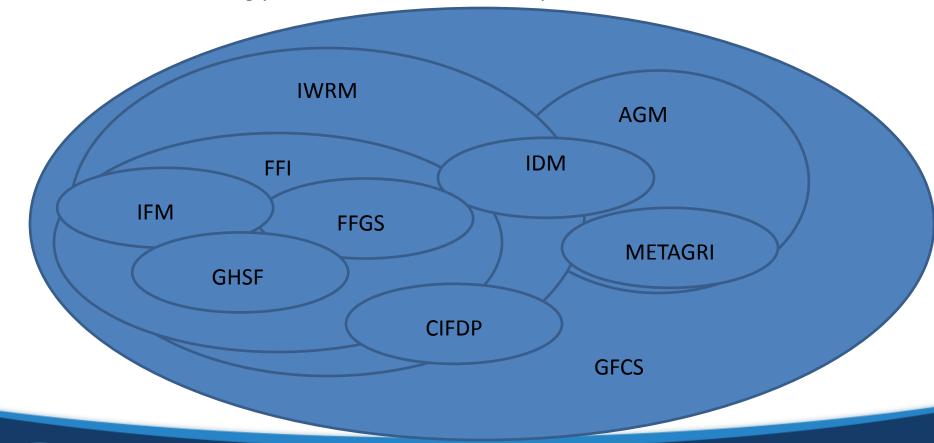




Proposal

Basic Concepts:

- Include as many HelpDesk into a single one
- Rename it accordingly to avoid issues of ownership





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Summary of AC Recommendations

- To be prepared based on AC discussions and recommendations
- For presentation to the MC for its consideration

Thank you!

