



WMO

World Meteorological Organization

Working together in weather, climate and water

Associated Programme on Flood Management (APFM)

Overview

Consultation Meeting on the Integrated
Drought Management Programme
15-16 November 2010

Geneva, Switzerland



World
Meteorological
Organization





APFM Project Background

Joint Initiative

World Meteorological Organization (WMO)

Global Water Partnership (GWP)

Secretariat

Technical Support Unit (TSU) embedded in the Hydrology and Water Resources Branch

Inception Phase: 2001- 2002

Implementation Phase I: 2002- 2006

Implementation Phase II: 2006-2010

Trust Fund current contributors: Japan and Switzerland



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

GOALS / OBJECTIVES

**Promote inclusion of floods in all aspects of
Integrated Water Resources Management (IWRM)**

**Provide sound flood management tools, policy options
and response strategies**

**Reduce negative impacts of floods while enhancing
positive effects**

**Assist coordination of regional activities under this
Programme**



APFM Project Objectives: From concept to field demonstration

Objective 1: To provide support for the adoption of an integrated approach to flood management

Objective 2: To provide Advocacy and Capacity Building for Integrated Flood Management (Tools, Trainings, Presentation Material)

Objective 3: To Provide Support for Field Demonstration Projects

Objective 4: Provide Strategic advice on flood management through a **HelpDesk**



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

DELIVERABLES

Development of flood management projects and strategies in various countries and regions

Capacity building of national and regional bodies in flood management and IWRM

Compilation of Integrated Flood Management tools as “Tool Box”

Demonstration of new approaches of IFM in IWRM linking technical, economic and social aspects of Flood Management



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

ACTIVITIES

Provide an international focal point for flood management

Compile/disseminate information on floods and flood management including good practices and lessons learnt

Compile/evaluate flood management tools, build tool box

Promote coordination of regional activities including the development and implementation of projects under this Programme



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

VIRTUAL CONFERENCE

1st Session:

Introduction of APFM

Present concise concept paper on IFM and invite views on it

Provide information on good flood management practices

Solicit participation along identified themes

Provide rules for participation



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

VIRTUAL CONFERENCE

2nd Session:

**Present opportunities and challenges to IFM and
invite views**

**Possibly present regional programmes and invite
views**

Present good practices in IFM and invite discussion

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Shortcomings of past Flood Management Practices

- Emphasis has been on ‘Control’ rather than ‘Management’
- Flood control measures have been Ad-hoc and stand alone
- Reactive rather than proactive
- Emphasis has been largely on structural measures
- Monodisciplinary
- River morphological behaviour is not factored
- Lessons from past failures have rarely been learnt

Flood management is a neglected policy issue on the international as well as, in many cases, at the national level



New challenges

Absolute safety against flooding is a myth!

Increasing Flood Risks due to
development activities

Climate change uncertainty

Growing environmental concerns





Integrated Flood Management

Aims at:

1. Maximizing the net-benefits from floodplains and
 2. Minimizing losses of life
 3. Sustainable Development
 4. Environmental preservation
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Activities in APFM Phase I

1. Compilation of IFM concept paper and supplementary papers
 2. Implementation of regional pilot projects
 3. Compilation of flood management case studies
 4. Establishment of linkages with APFM partners and contacts
 5. Dissemination of information and advocacy
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Flood Management Policy Series

Key characteristics

- Instrumental in bridging disciplinary gaps for IFM
- Expert-group based
- Peer-reviewed
- Specific target groups
 - Policy Makers
 - Flood Managers
 - Experts in respective special fields
- Target group adapted language and format
- Made available in English, French and Spanish





Regional pilot projects

Phase I

- Pilot projects have been undertaken in
 - South Asia (Community approach)
 - Africa (Flood management strategies)
 - South America, (Transboundary floods)
 - Central and Eastern Europe (Flash Floods)



Aim of pilot projects: develop and implement IFM concept and its application through demonstration.



Flood Management Case Studies

Africa - Cameroon, Ethiopia, Mali, Mauritania, and Zimbabwe

Asia - Bangladesh, China, India, Japan, and Pakistan (2)

North and Central America - Canada, USA (2)

South West Pacific – Fiji

Europe - Italy, Turkey, UK, Germany, Ukraine





APFM Phase II

Focus is on

- **implementation of the IFM concept** on the ground
 - through promotion of IFM Concept, development of Tools, Capacity Building using HelpDesk as principal platform for access to assistance in IFM
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Flood Management Policy Series

- establish the principles of IFM
- facilitate the implementation of IFM principles into the development planning practices

Publications

- IFM Concept Paper
 - Legal and Institutional Aspects of IFM
 - Environmental Aspects of IFM
 - Social Aspects and Stakeholder Involvement in IFM
 - Economic Aspects of IFM
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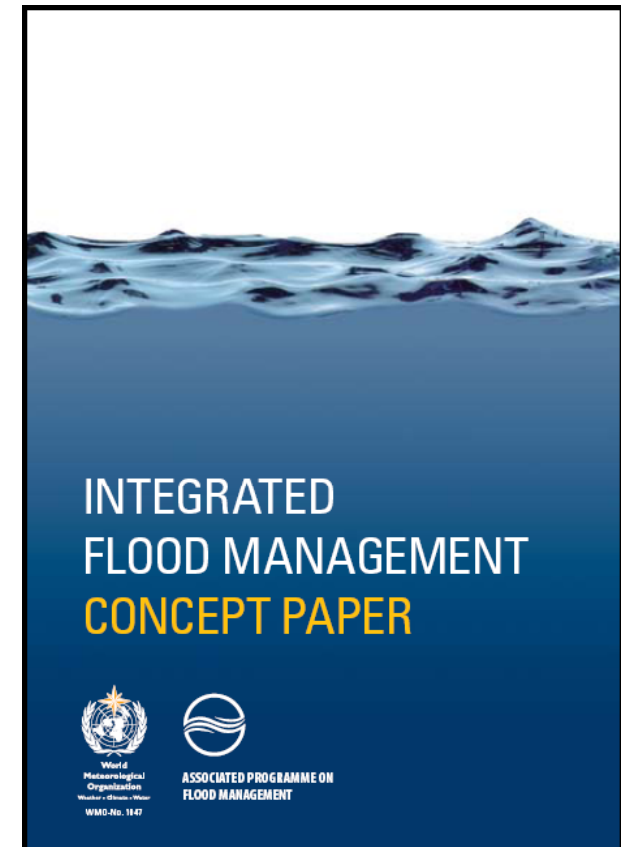


IFM Concept Paper

- mainly to establish the principles of IFM
- English, French, Spanish, Russian and Japanese
- 3rd Edition issued in December 2009

Elements strengthened or added in 3rd edition:

- Climate variability and change
- Urbanization and urban water management
- Adaptive and robust policy
- Risk management
- Multi-disciplinarity





IFM Tools Categories

Three Categories

- *Category A: **Introductory notes*** that address the multi-disciplinary perspective to the tool
 - *Category B: **Detailed notes***, which provide the reader with basic understanding of the concepts and initial guidance on the issue to be able to participate in a multi-disciplinary discussion
 - *Category C: **Detailed Methodologies and Guidance Materials***
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IFM Tools

- provide the **knowledge base** required for the implementation of IFM concepts in the field
- make the decision makers and planners **aware of the related issues**
- would be the **living documents** and **be updated** based on experiences sharing on the website

Tools would be useful for:

Capacity building;

Providing IFM HelpDesk services; and

Supplementing GWP ToolBox



IFM Tools Areas

IFM Tools cover seven broad areas

- IFM Planning Aspects;
 - Social Aspects;
 - Environmental Aspects;
 - Economic Aspects;
 - Legal and Institutional Aspects;
 - Hydraulic and Hydrological Aspects; and
 - Engineering Aspects
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Capacity Building

....Including

Operation of E-learning System

(in cooperation with TUHH)

**Organization of national and regional IFM
(training) workshops**

(in cooperation with CapNet)

Project WET

(in cooperation with UCAR and USAID)



Flood Management Reference Centre

- is establishing linkages among various disciplines, institutions, and actors involved in flood management as the reference centre
 - consists of four databases on Flood Management
 - 1) Institutions and Agencies involved in Flood Management
 - 2) Literatures on Flood Management
 - 3) Flood Management Policy and legislation
 - 4) Flood Prone Area
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Dissemination of information

New: Communication Strategy has been developed (2010)

Newsletters

- 3 Newsletters (No.20, 21, and 22) have been published
- 933 Subscribers (133 new subscribers)

Conferences

- *GPDRR* (Global Platform on Disaster Risk Reduction)
- *WCC3* (World Climate Conference 3)
- *WWW* (World Water Week)

Web-based APFM and HelpDesk Portals



Linkage to Other Activities

APFM has been developing cooperative activities with following institutions to create synergy and expand the field of activities

- The International Centre for Water Hazard and Risk Management (ICHARM)
 - The Japan Institute of Construction Engineering (JICE)
 - Swiss Federal Office for the Environment
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IFM HelpDesk

A facility that will provide guidance on flood management policy, strategy, and institutional development related to flood issues to countries that want to adopt the IFM concept



*No Disaster Assistance or
Flood Emergency Response Functions !!!*



IFM HelpDesk Objectives

- Provide **quick access** to relevant flood management information;
 - Provide **guidance and momentum for reform** in favour of IFM in countries or river basins in developing flood management policies, strategies and institutional arrangements;
 - Serve as a **link between flood management practitioners and decision-makers and multi-disciplinary scientific expertise and best practice**
 - Provide a continuous and **sustainable capacity development mechanism** in support of IFM implementation.
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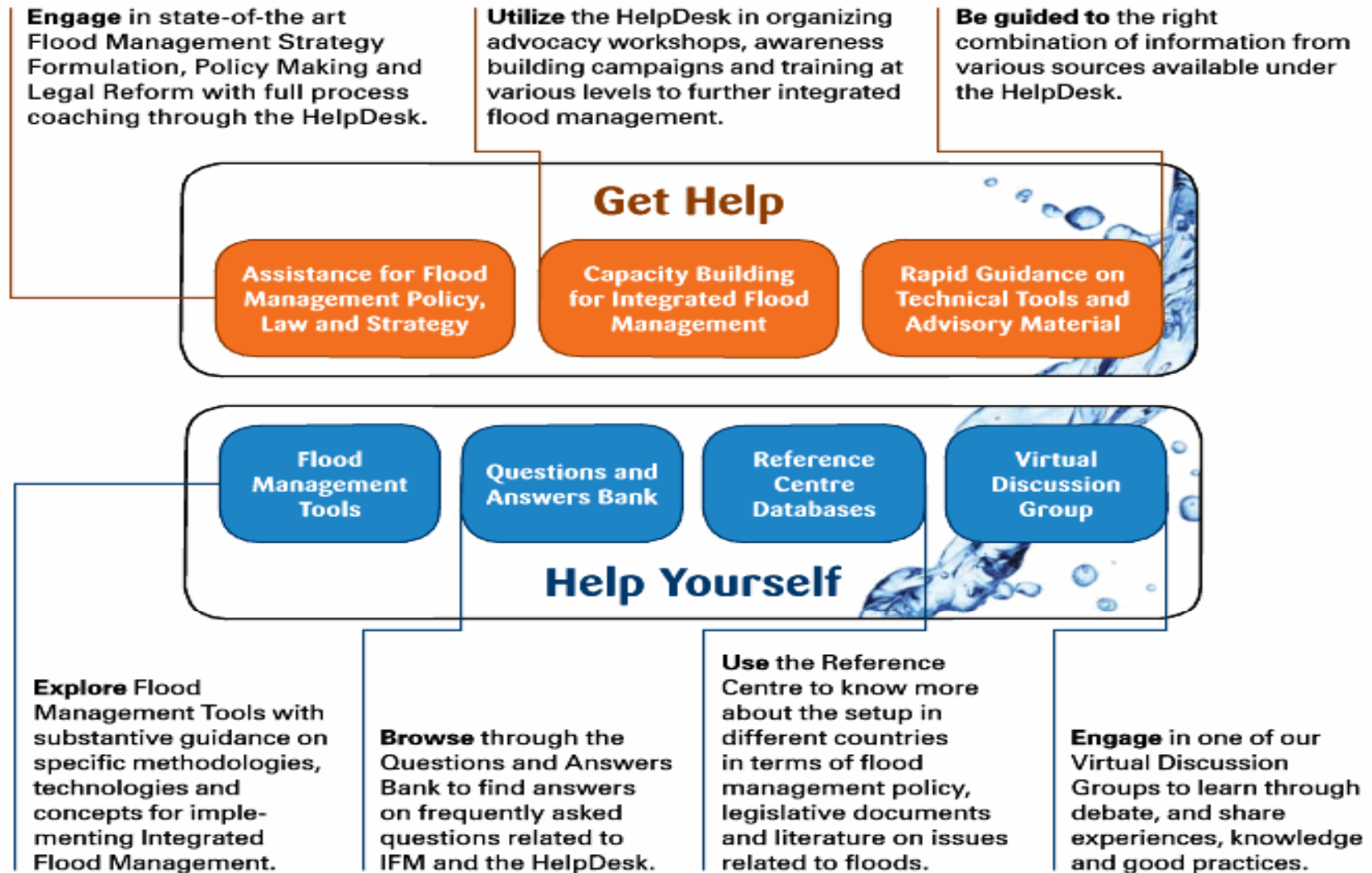
IFM HelpDesk

Target Audience

- **Government officials** involved in decision making at various levels of Government, charged with a role in flood management
 - **River Basin Organizations**
 - **Bi- and Multilateral Organizations involved in Technical and Financial Cooperation**
 - **UN System organizations** with a role in flood management
 - **Reputed Non-Governmental Organizations** in particular those working with flood affected communities, Voluntary and Community-based Organizations
 - **Universities**
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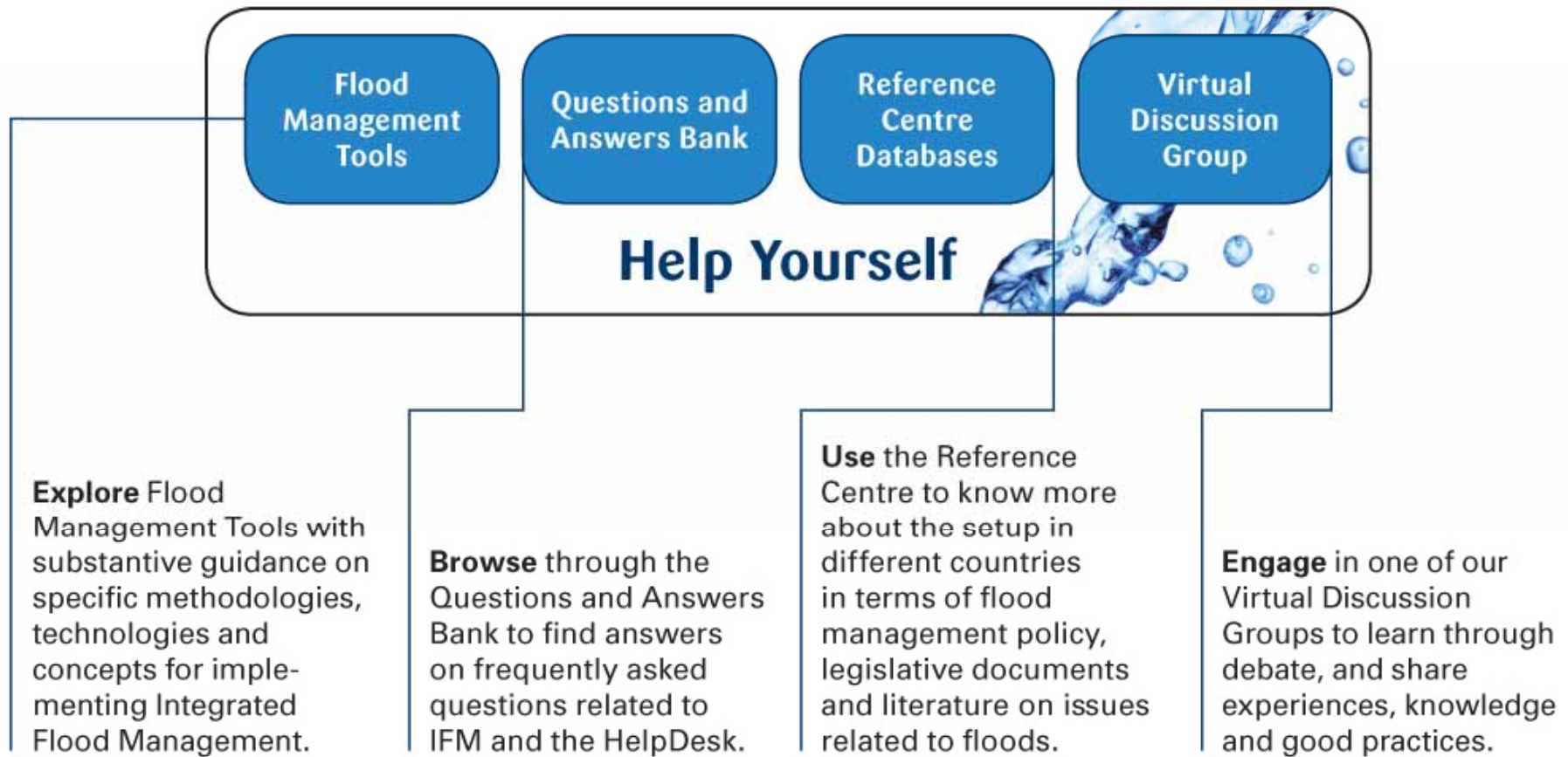
IFM HelpDesk Outline



*** Detailed discussion will be on the second day (4 June 2010)*



IFM HelpDesk Service Spectrum





IFM HelpDesk

Virtual Discussion Groups

- Flood Management Policy Forum
 - Flood Management Measures and Tools Forum
 - Past Flood Event Forum
 - Conferences, seminars, workshops on floods
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IFM HelpDesk Service Spectrum (cont.)

Engage in state-of-the art Flood Management Strategy Formulation, Policy Making and Legal Reform with full process coaching through the HelpDesk.

Utilize the HelpDesk in organizing advocacy workshops, awareness building campaigns and training at various levels to further integrated flood management.

Be guided to the right combination of information from various sources available under the HelpDesk.

Get Help

Assistance for Flood Management Policy, Law and Strategy

Capacity Building for Integrated Flood Management

Rapid Guidance on Technical Tools and Advisory Material



IFM HelpDesk Support Base

- Decentralized network of **technical partners and multipliers**
 - Ensure **multidisciplinary inputs**
 - Minimum criteria for Membership
 - IFM concept as basis of action
 - Minimum level of in-kind support
 - Sign up through a Letter of Engagement
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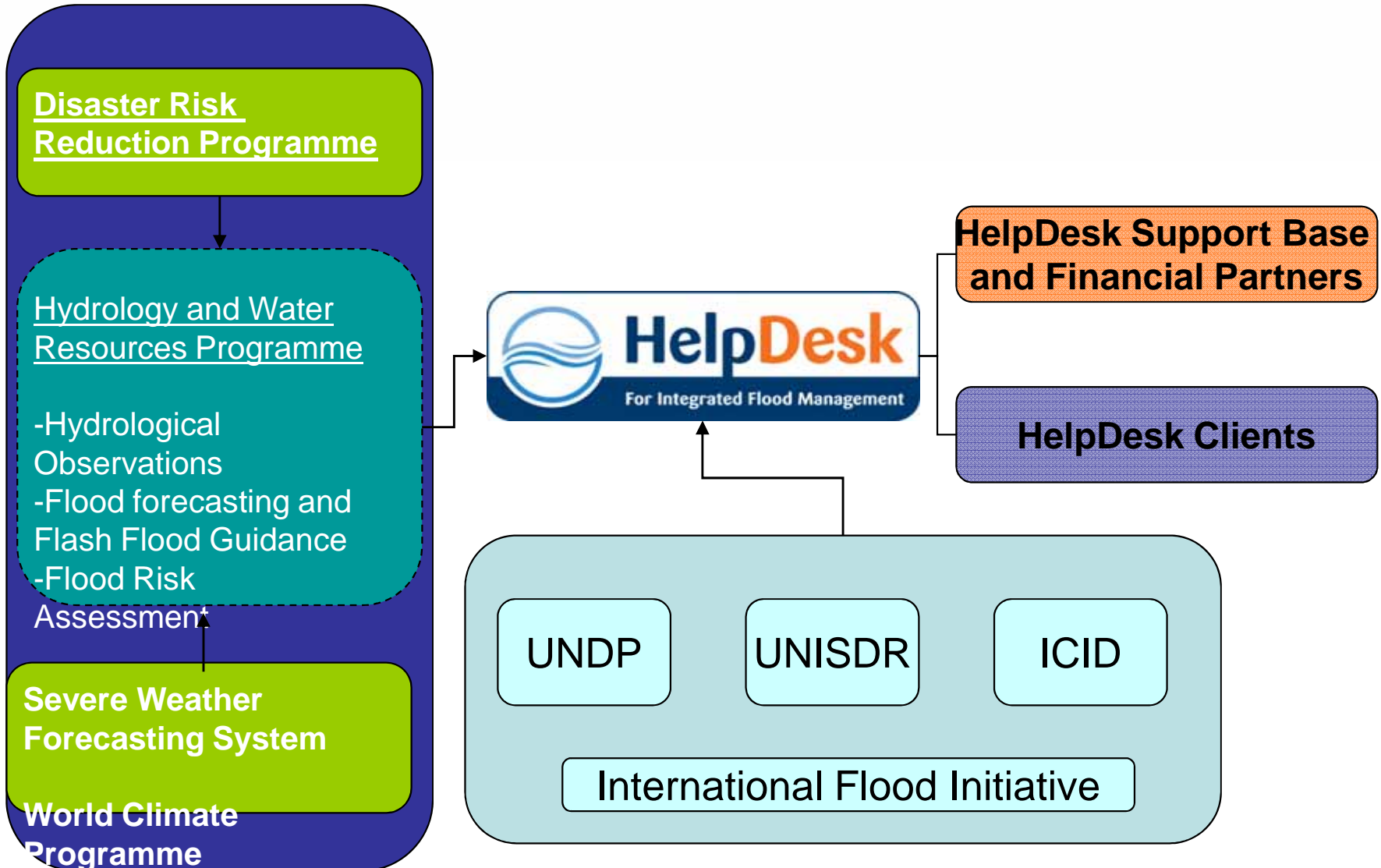
IFM HelpDesk Support Base Partners

...to be updated...



IFM HelpDesk Network





IFM HelpDesk

Financial Aspects

- Financial basis: APFM Trust Fund
 - Seed funding from Trust Fund foreseen for
 - Needs assessment;
 - Sensitization/stakeholder workshops;
 - Inputs for project proposal formulation/review; and
 - Awareness, training and capacity building.
 - All other funds (e.g. for project implementation) to be provided by the beneficiary/a financial partner
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IFM HelpDesk

WMO's Commitment

WMO supports the functions of the HelpDesk through:

- the provision of **professional staff support** from the Hydrology and Water Resources Branch of WMO and the APFM Technical Support Unit;
 - the provision of logistics in form of **office space and utilities** for the HelpDesk;
 - **web hosting** for relevant parts of the HelpDesk;
 - provision of **technical inputs** from the Hydrology and Water Resources Branch of WMO and the Associated Programme on Flood Management
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IFM HelpDesk Coordination

- Through the APFM **Technical Support Unit** in the HWR Branch

Functions:

- Serve as the **point of contact** for incoming requests to the HelpDesk;
 - **Route incoming requests** to the required Members of the HelpDesk Support Base and coordinate follow up;
 - **Provide strategic advice** on all requests concerning flood management policy and strategy;
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IFM HelpDesk Coordination (cont.)

Functions (cont.):

- Provide **technical backstopping** (not project management) to project implementation for projects developed under the HelpDesk;
 - Maintain and upgrade the components of the “**Help yourself**” **section of the HelpDesk**. Develop new components of the “Help yourself” section if and as required;
 - **Maintain and strengthen the HelpDesk Support Base** and linkages to financial partners;
 - Develop and implement a **HelpDesk Marketing package**;
 - Provide **Advocacy for IFM concepts** in selected international and national policy initiatives.
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AC/MC New structure (2010)

- **Composition of AC:**

- Head of TSU of APFM
- Two representatives of the WMO Commission for Hydrology
- One representative of GWP
- Representatives of the Support Based Partners

The AC discusses about the issues encountered in the APFM activities of previous year and provides guidance for the activities of the following year

- **Composition of MC:**

- Head of TSU of APFM
- Representatives of the major Donors (Japan and Switzerland)
- Two representatives of the WMO Commission for Hydrology
- One representative of GWP
- Two representatives of the Support Based Partners

The MC determines the level of financial support required for the APFM including the HelpDesk, as well as the corresponding resource mobilization strategy, and sets criteria of quality for the eligibility as a Support Base Partner

A young girl is floating in a black inner tube in a flooded area. She is wearing a white headband and a white tank top. She is holding a clear plastic bottle with a green cap. The water is dark and rippled. In the background, there is a concrete structure, possibly a bridge or a building, and some greenery. The scene is outdoors and appears to be a flooded urban or rural area.

For more details and outputs
<http://www.apfm.info>
<http://www.floodmanagement.info>
apfm@wmo.int

Thank you!