APFM

Associated Programme on Flood Management (APFM)

F2F Swiss NGO DRR Platform
Thun, Switzerland, 10 November 2015

World Meteorological Organization
Weather • Climate • Water

Global Water Partnership

Associated Programme on Flood Management (APFM)

ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT

Joint Initiative between World Meteorological Organization and Global Water Partnership

Technical Support Unit embedded in the WMO Hydrology and Water Resources Branch

Founded in 2001

Contributors FOEN (Switzerland), MAE (France) and USAID

(in the past: Japan, the Netherlands, Germany and Italy)

World Meteorological Organization
Weather • Climate • Water

Global Water Partnership

Mission

"to support countries in the integrated management of floods within the overall framework of Integrated Water Resources Management."

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Integrated Flood Management definition

"Integrated Flood Management is a process that promotes an integrated, as opposed to fragmented, approach to managing floods.

IFM integrates land use and water resources in a river basin, in accordance with IWRM, and has the objective of **maximizing net benefits** derived from the use of floodplains and **minimize loss of life** due to flooding.

IFM keeps in consideration **environmental preservation**, balancing development needs with flood risk towards a **sustainable development**"

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Maximizing net benefits

Gains

Derived from the activities and use of floodplains (agriculture, urban development, transportation, recreational use, etc.)

−

Losses

Direct damages and mid to long term impacts on environment and socio-economics

≥ 0

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Risk Management: Hazards and disasters

"There are two types of levees, those that have been overtopped by floodwaters, and those that will be"

- William Hammon Hall, first State Engineer of California, 1880 circa

Natural hazards are **unavoidable**

BUT

Disasters are caused by social attitudes and developmental processes that increase vulnerability

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IFM principles

Activities of the APFM

- Compilation of guidance and advisory tools
- Capacity Building
- Strategic advice on flood management through a HelpDesk
  - Developing training and advocacy material
  - Capacity building
  - Building a network of institutions supporting multi-disciplinary approach

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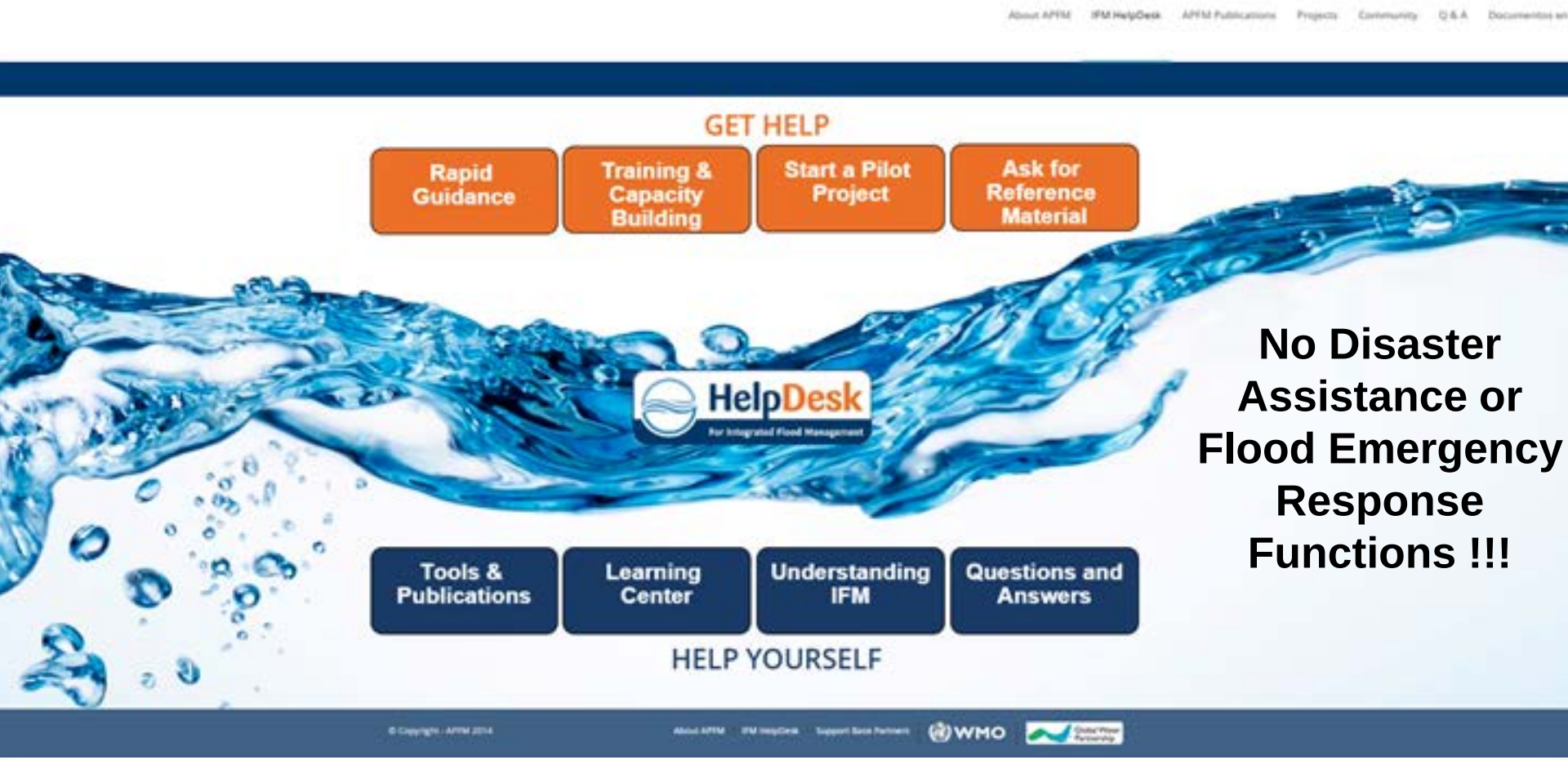
Integrated Flood Management HelpDesk

A facility to provide guidance on flood-related issues to countries that seek to adopt the IFM concept.

Objectives

- Quick access to information on flood management;
- Guidance and momentum for reform activities towards IFM;
- Continuous and sustainable capacity development mechanism in support of IFM implementation;
- Serves as a link between practitioners / decision makers and experts.

Integrated Flood Management HelpDesk



No Disaster Assistance or Flood Emergency Response Functions !!!

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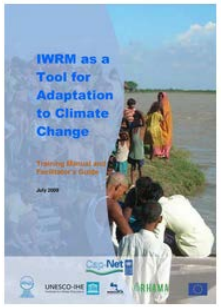
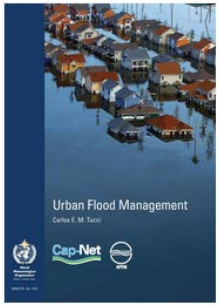
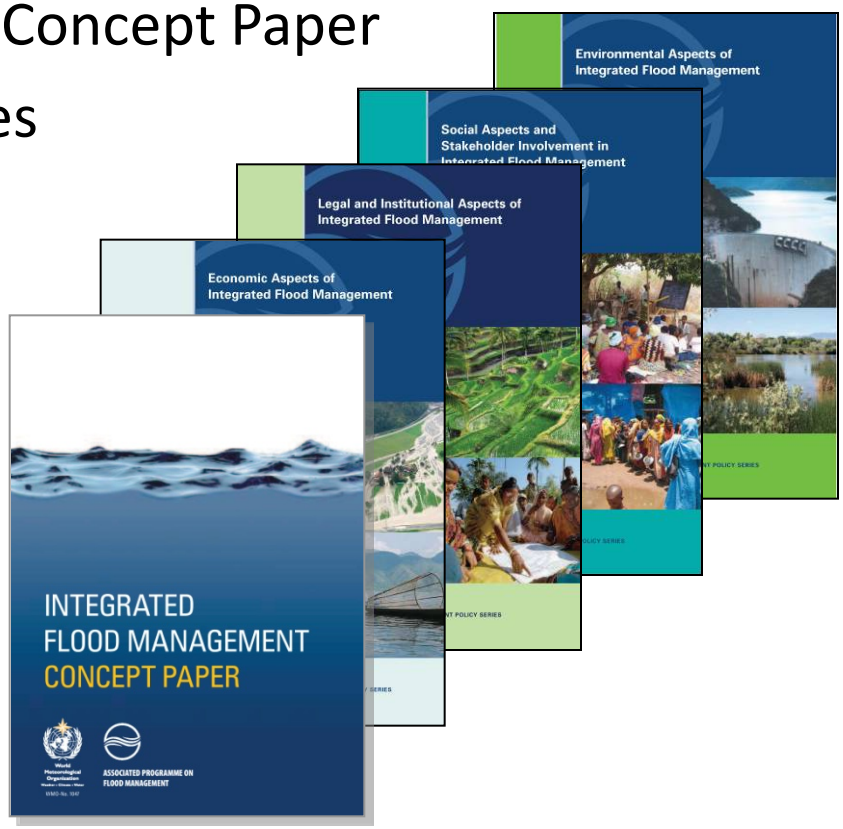
Tools & Publications

IFM publications

- Integrated Flood Management Concept Paper
- Flood Management Policy Series
- IFM Tools Series
- Training manuals







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IFM Tools Series

1. Formulating Basin Flood Management Plans
2. Rapid Legal Assessment Tool
3. The Role of Land-use Planning in Flood Management
4. Adaptation to Climate Change in Flood Management
5. Organizing Community Participation for Flood Management
6. Applying Environmental Assessment for Flood Management
7. Conducting Flood Loss Assessment
8. Risk sharing in Flood Management
9. Reservoir Operations and Managed Flows
10. Urban Flood Risk Management
11. Flood emergency planning
12. Mud Flows and Land Slides Management
13. River restoration and wetlands conservation (con Ramsar)
14. Flash Flood Management
15. Flood Proofing
16. Preliminary flood risk assessment (con DHI)
17. Urban Floods in a Changing Climate
18. Coastal Flood Management
19. Flood Forecasting and Early warning
20. Flood mapping

Guidance documents in the IFM context

bridging disciplinary gaps

"living" documents

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Training & Capacity Building

Capacity building & training

- What is needed?

  Identification of problems and gaps

- What is possible?

  presenting opportunities and existing capacities

IFM for flood hazard mapping, Japan

APFM Provides:

- Vocational training (short training and workshops for different target groups)
- Specific topics and contact with experts :
  - Integrated flood management,
  - urban flood management,
  - community-based approaches
- Development of National Strategies that apply the IFM concept

National strategy on IFM, Lao PDR

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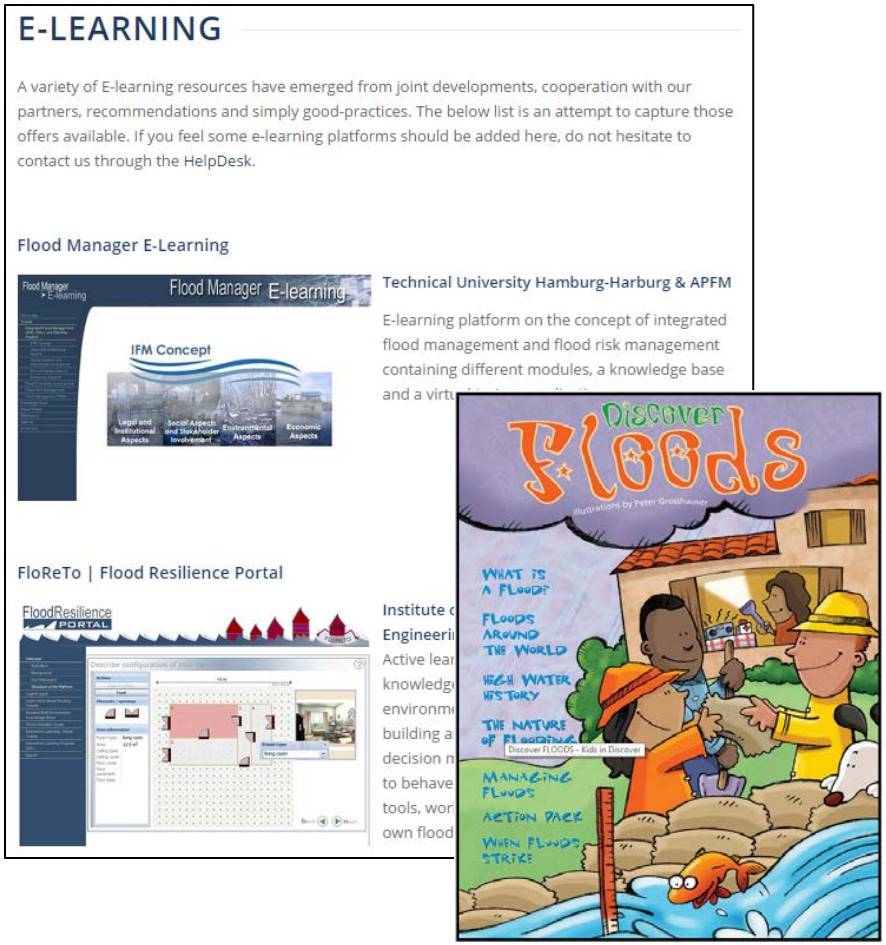
Learning Center

Educational and self-learning resources

- Links provided to external E-learning platforms
- Educational booklet for primary school teachers and students
- Serious gaming section



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Start a Pilot Project

Regional pilot projects

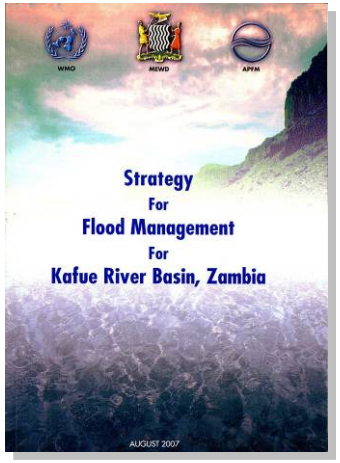
Aim of pilot projects:
develop and implement IFM concept and its application through demonstration (with third party funding)

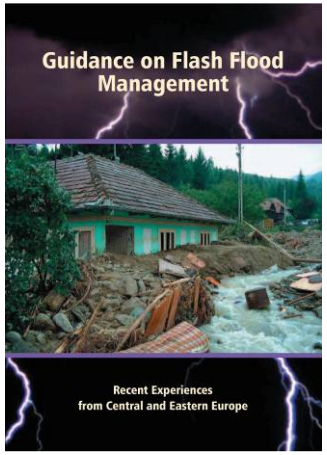
Pilot projects have been undertaken in:

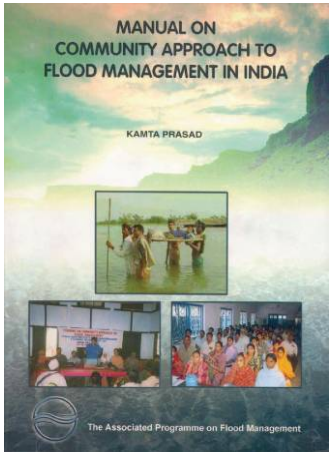
- South Asia (community-based approaches)
- Africa (flood management strategies)
- Central and Eastern Europe (flash floods)

Available through the HelpDesk:

- Assistance in development of proposals
- Support in securing funding from donors
- Technical supervision







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Understanding IFM

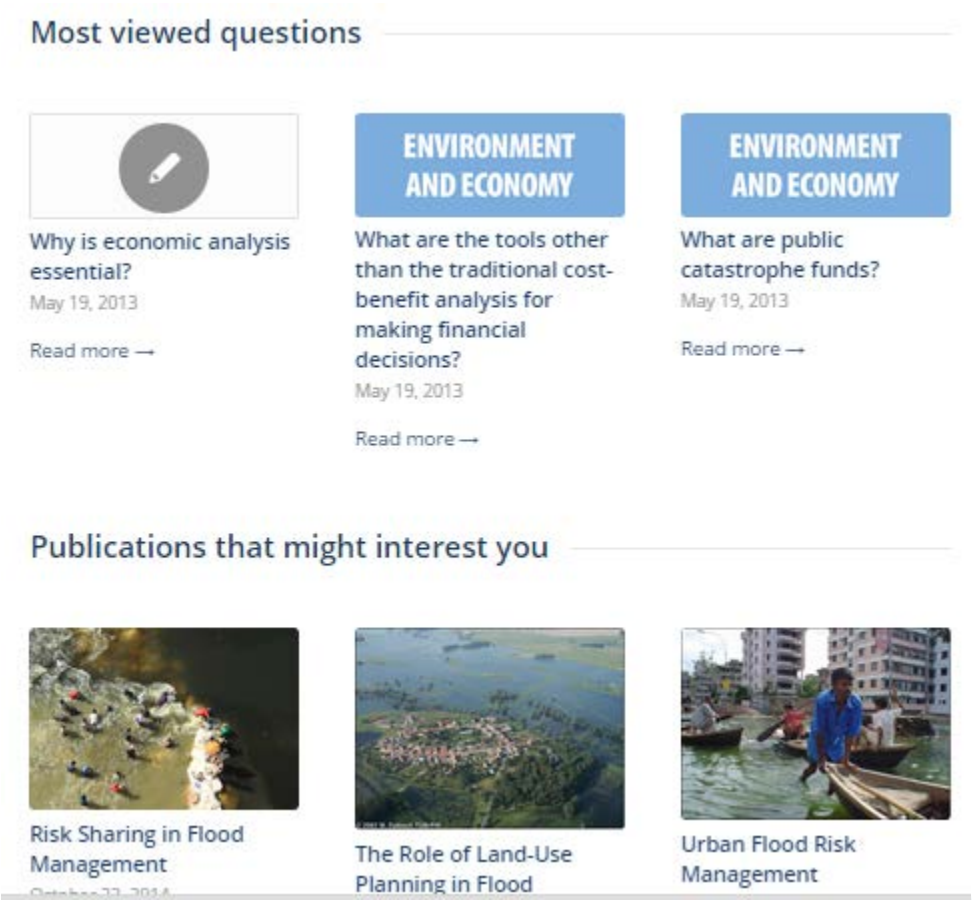
Ask for Reference Material

Rapid Guidance

Questions and Answers

Ad-hoc remote guidance

- General understanding of the IFM concept
- Bibliographic references
- FAQ
- Rapid guidance and networking



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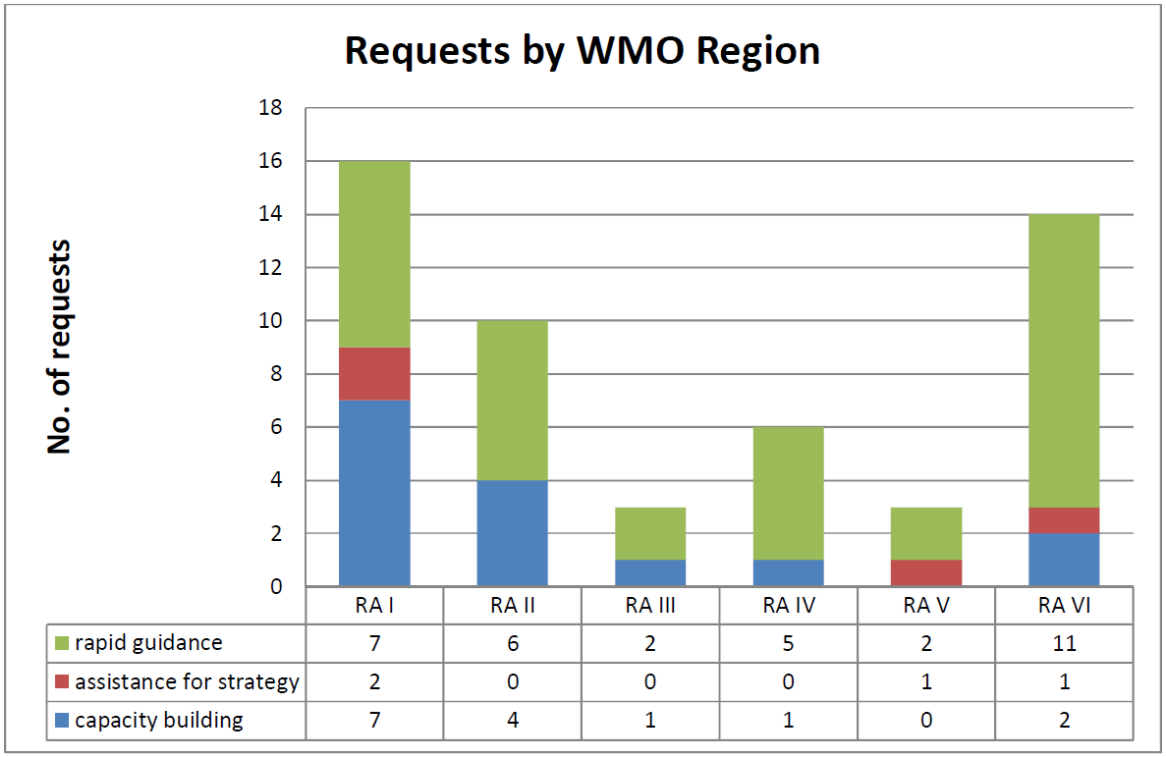
Success indicators

- Launched in 2009
- Around 170 requests received from more than 40 countries
- Used by:
  - NGOs and private sector
  - Academic institutions
  - Governmental agencies



	RA I	RA II	RA III	RA IV	RA V	RA VI
rapid guidance	7	6	2	5	2	11
assistance for strategy	2	0	0	0	1	1
capacity building	7	4	1	1	0	2

Integrated Flood Management HelpDesk

Beneficiaries

Government agencies on various levels, CBOs, RBOs, Voluntary Organizations, Bi- and Multilateral Organizations, Universities

Request for assistance, preparation of project proposal, supervision of technical implementation

HelpDesk For Integrated Flood Management

Mail to **floodmanagement @wmo.int**

Technical input

HelpDesk Support Base

institutes specialized in various IFM-relevant disciplines

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HelpDesk
For Integrated Flood Management

Support Base Partners

Specialized institutes in various disciplines relevant for IFM

Deltares
Enabling Delta Life

adpc

Australian Government
Bureau of Meteorology

Cap-Net

CERFE

DHI
The expert in WATER ENVIRONMENTS

ČHMÚ

RESEARCH FOUNDATION
cima

EUROAQUAE
Euro Hydro-Informatics and Water Management

IAHS
AISH

ICHARM

JICE

JWA
Japan Water Agency

KOREA WATER FORUM
KWF

KOREA
WATER FORUM

UNESCO-IHE
Institute for Water Education

UNESCO

SIWI

WWF

zoï environment

UNIVERSITY OF DUNDEE

TUHH
Technische Universität Hamburg-Harburg

KOREA WATER
RESOURCES ASSOCIATION

unitar
United Nations Institute for Training and Research

UNOSAT

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For more details:
www.floodmanagement.info

Thank you for your attention

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