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Integrated Flood Management: the experience of the Associated Programme on Flood Management (APFM)

Joint APFM/IDMP Meeting of Advisory and
Management Committees
Geneva, 14 September 2016



World
Meteorological
Organization
Weather • Climate • Water



Global Water
Partnership

Associated Programme on Flood Management (APFM)



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



Mission

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



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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

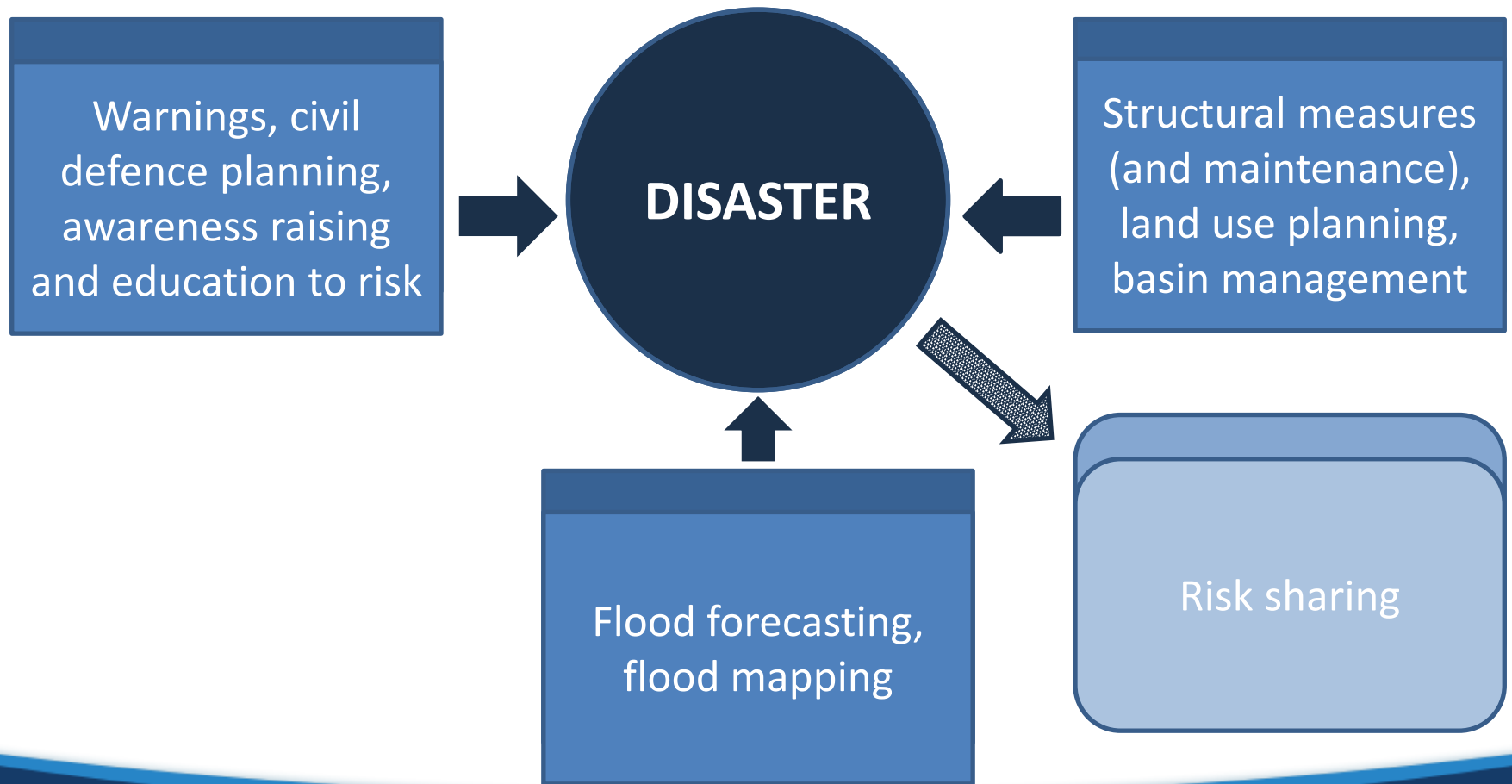
Natural hazards are **unavoidable**

BUT

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



Flood Risk Mitigation: from theory to practice



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



Associated Programme on Flood Management



A contribution to the International Flood Initiative



English - Français - Español

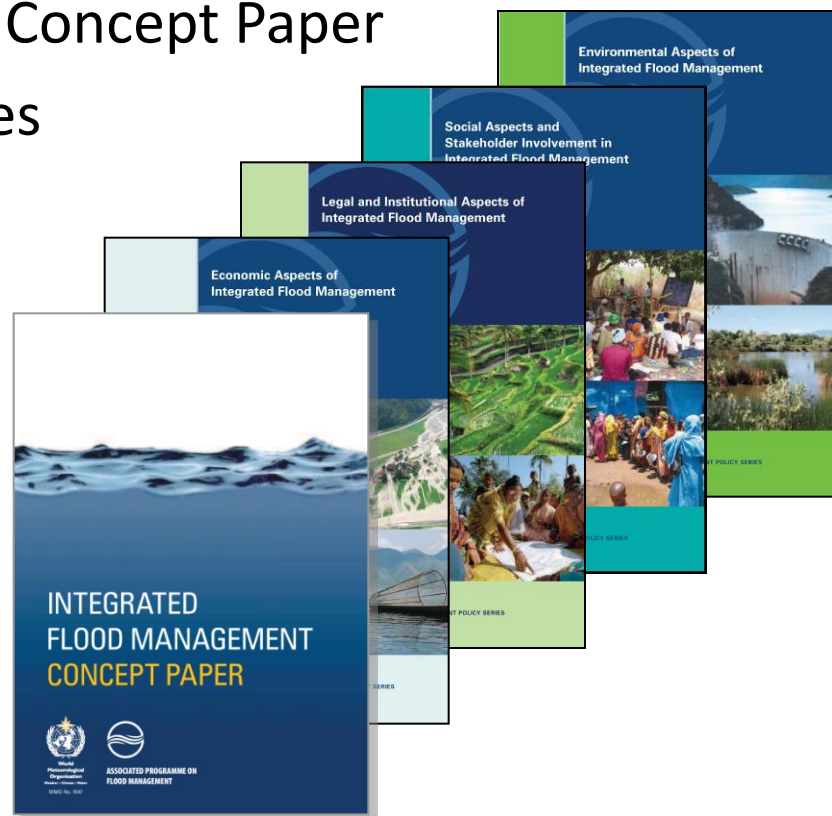
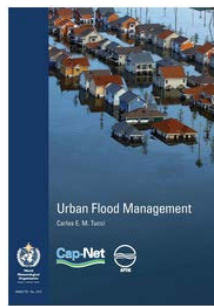
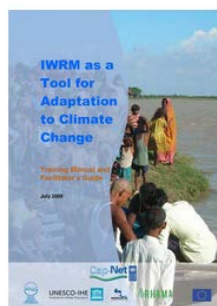
[About Integrated Flood Management](#) | [About the IFM HelpDesk](#) | [Contact us](#)



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IFM publications

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



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
14. Flash Flood Management
15. Flood Proofing
16. Urban Floods in a Changing Climate
17. Coastal Flood Management
18. Flood Forecasting and Early warning
19. Flood mapping
20. Effectiveness of flood management measures
21. The role of the Media in flood management
22. Health and sanitation aspects of flood management
23. Technical assistance for the preparation of an advocacy strategy
24. Public perception of flood risk and social impact assessment
25. Crowdsourcing and crisis mapping

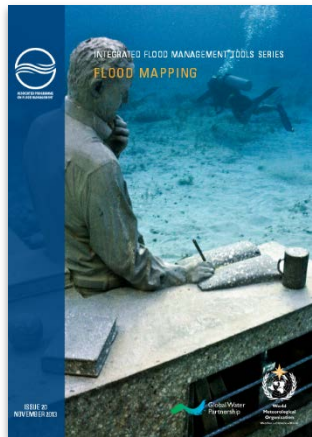
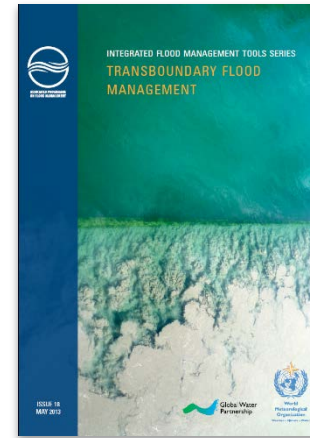
Guidance documents in the IFM context
bridging disciplinary gaps



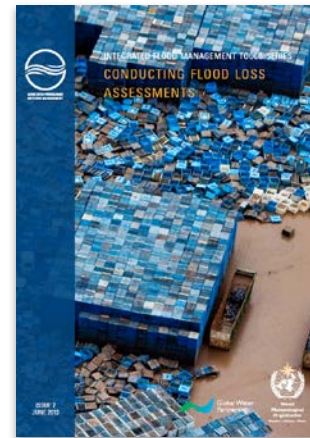
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Examples of IFM Tools

- Integrated river-basin approach
- Research, education and exchange of knowledge
- Strengthening of institutional capacities
- Retention of water and non-structural measures
- Land use, zoning and risk assessment
- Structural measures and their impacts
- Public awareness, public participation and insurance
- Early warning, flow forecasting, flood emergency
- Minimizing environmental impacts



- Guidelines for the production of flood maps
- Defines the legal and administrative framework to set up a flood mapping mechanism
- Analyzes different type of maps, and different typologies for flood map production



- Guidelines for the assessment of flood losses
- Analyzes the various types of losses
- Presents examples from various countries



Capacity building & training

- **What is needed?**
Identification of problems and gaps
- **What is possible?**
presenting opportunities and existing capacities

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



Start a Pilot Project

Regional pilot projects

Aim of pilot projects:

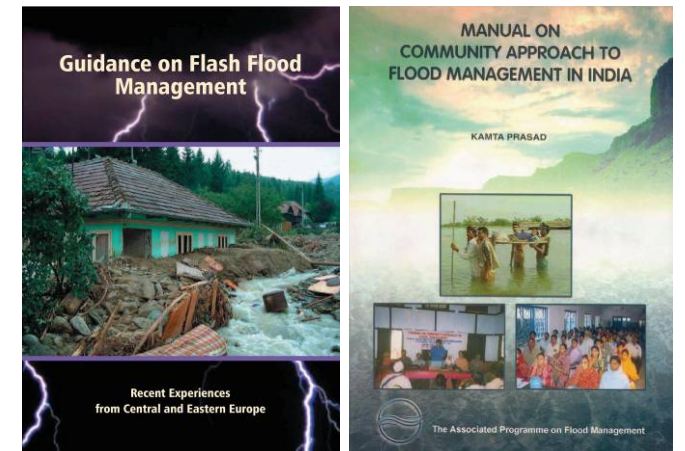
develop and implement IFM concept and its application through demonstration (with third party funding)

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





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

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

Institutes specialized in various disciplines relevant for IFM



Technical input

SUPPORT BASE



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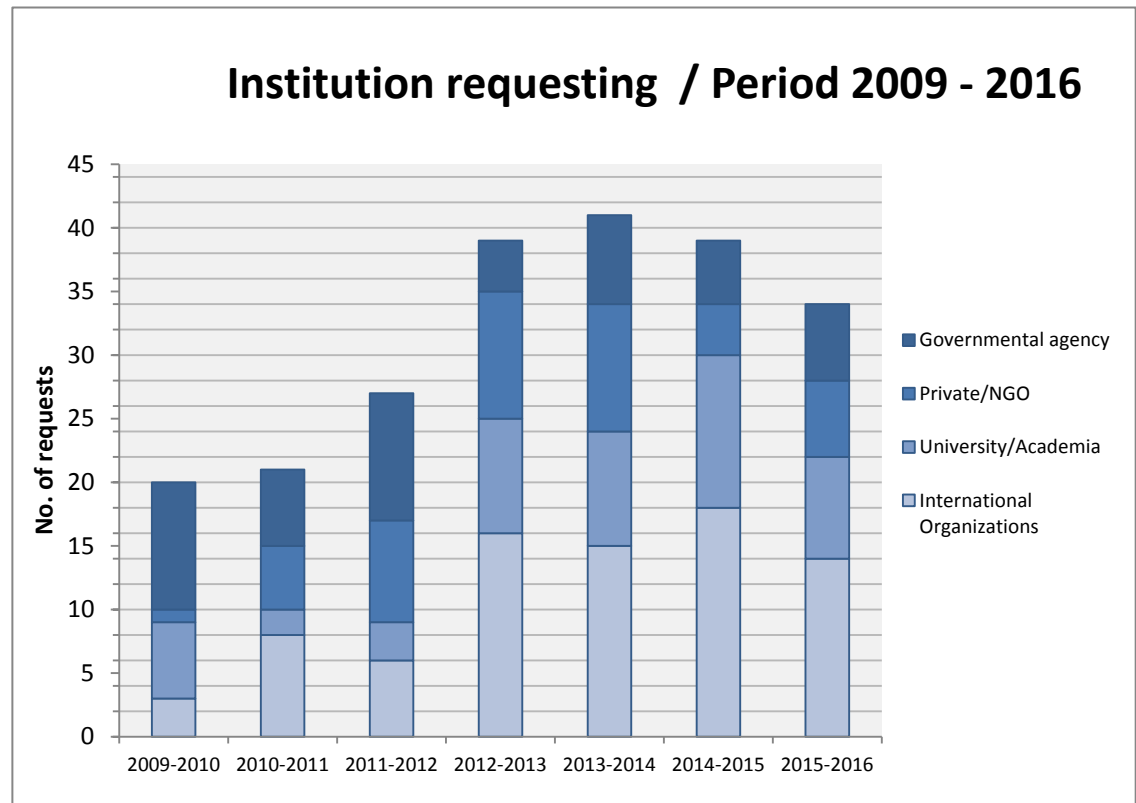
Support Base Partners

Specialized institutes in various disciplines relevant for IFM



Success indicators

- Launched in 2009
- Around 221 requests received from more than 40 countries
- Used by:
 - NGOs and private sector
 - Academic institutions
 - Governmental agencies
 - International Organizations



**For more details:
www.floodmanagement.info**



Thank you for your attention



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