The Challenge

• bringing the various activities in FFI together to increase the capabilities of National Hydrological Services to provide better forecast products and services...

• How to do this...
Proposed actions by the FFI AG

• Develop a **generic list** of requirements/best practices of End-to-End Early Warning System (E2E EWS) for flood forecasting taking into account high priority actions;
  • Evaluation of National capabilities
• Develop a new **FFI Implementation Strategy** to enhance National capabilities based on projects, training programmes, guidance material, promotion of material/approaches;
  • Use the IFM HelpDesk to promote the implementation strategy
• Ensure that all major demonstration projects (CIFDP, SWFDP, FFGS) include the requirements/best practices for effective flood forecasting;
FFGS development:
- better connections with SWFDP;
- implementation in a number of regions;
- technological advances
- (urban floods, landslides, multimodel approach, etc.).
Proposed actions by the FFI AG

• Develop a **generic list** of requirements/best practices of End-to-End Early Warning System (E2E EWS) for flood forecasting taking into account high priority actions;
  • Evaluation of National capabilities

• Develop a new **FFI Implementation Strategy** to enhance National capabilities based on projects, training programmes, guidance material, promotion of material/approaches;
  • Use the IFM HelpDesk to promote the implementation strategy
End-to-end (E2E) Flood Forecasting and Early Warning Initiative

- Real-time data collection
- Modelling & forecasting
- Early warning dissemination
- Decision support
- Response to warning

Global Hydrometry Service Facility (GHSF)
Meteorological, Climatological and Hydrological (MCH) Database Management System

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

DEWETRA Platform

APFM in support of the functions of National Meteorological and Hydrological Services
End to End (E2E) Early Warning Systems

**Generic list** of requirements/best practices consistent with FFI SAP (2013)

- Data collection/transmission/processing
- Meteorological forecasts
- Hydrological forecasts
- Forecast dissemination/warning
- Decision making/support
Non-Structural Solutions
Flood Forecasting and Warning Systems: Key Components
WMO Manual on Flood Risk Mapping

Drafting Team for the CHy Manual on Flood Risk Mapping
- 7 experts;
- Good representation of RA’s
- best practices in flood risk mapping;

Annotated Table of Content of the WMO on Flood Risk Mapping
(under review until January 2017)

1. Institutional and Legislative Settings
2. Defining Flood Risk Standards
3. Different Types of Flooding
4. Data Requirements and Availability
5. Mapping Standards and Field Verification
6. Special Policy Considerations
7. Hydrological Tools
8. Hydraulic Analysis
9. Visualization and Interpretation of Key Findings
10. Engineering Scale and Public Information Maps
11. Case Studies
The FFI Implementation Strategy
Enhancing National Capacity in E2E EWS
Community of Practice

- Evaluation of National Capabilities
- Guidance Material
- Interoperable Platform and Models
- Training Programmes
- Project Implementation
FFI Implementation Strategy
Path Forward for Discussion

• The FFI AG oversee the design and implementation of the Community of Practice for “Enhancing National Capacity in E2E EWS for flood forecasting”

• To be reflected in Future Work Programme of CHy?

• Need for Task Team?

• Is something missing or not needed?

• Do we need to revise Draft Resolution 4.2(1)/2 to include a further request:
  • To design and implement the Community of Practice for enhancing the National capacity in E2E EWS for flood forecasting