



World Meteorological Organization

Weather • Climate • Water

# Role of the NMHSs in Support of DRR-Related Activities in The Field of Insurance

**James Douris**

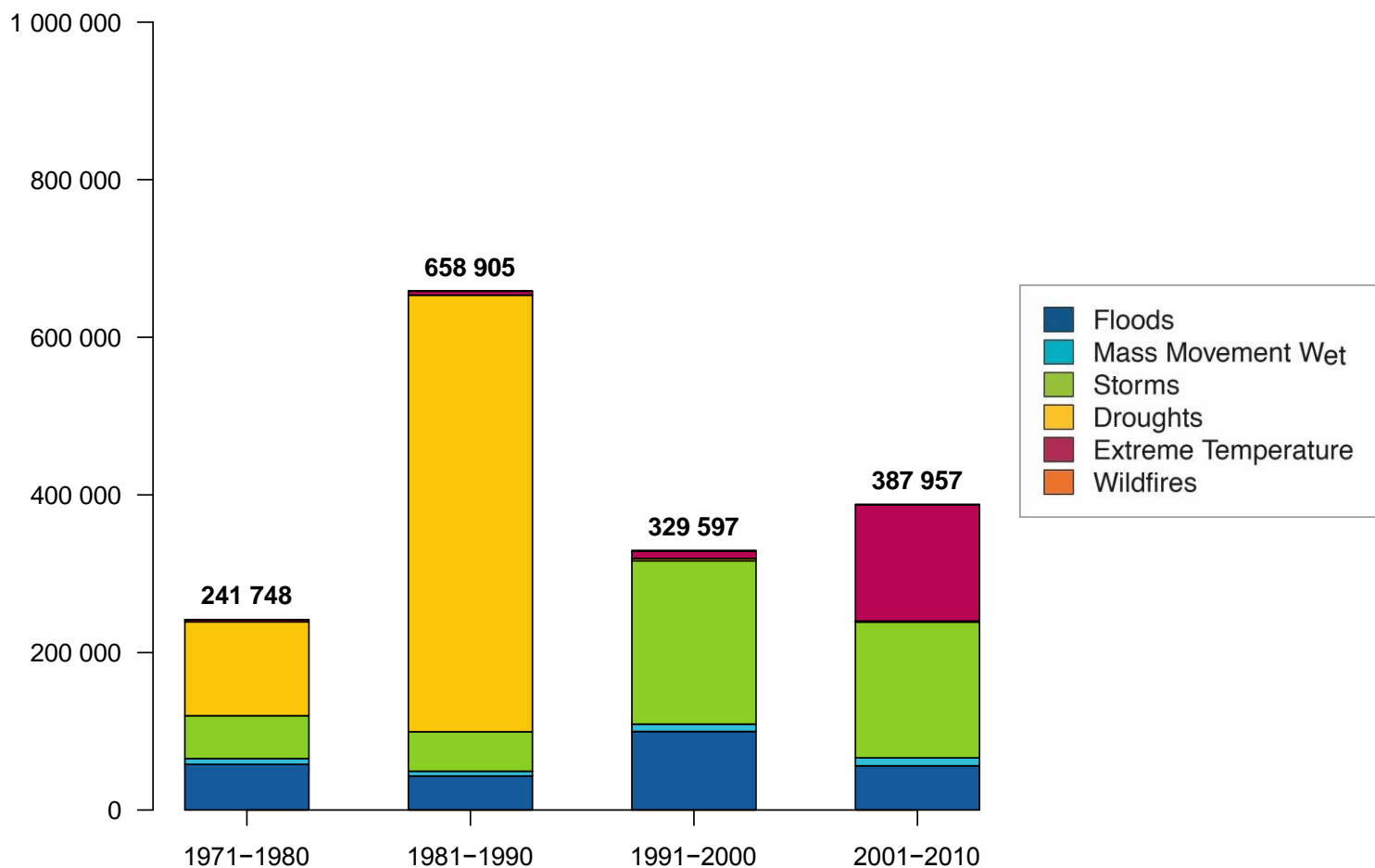
Project Officer of Disaster Risk Reduction Division  
Building Resilience to Disasters in Western Balkens and Turkey

13 – 14 October 2014

Ankara, Turkey

# Global

Number of reported deaths by decade by hazard type (1971–2010)



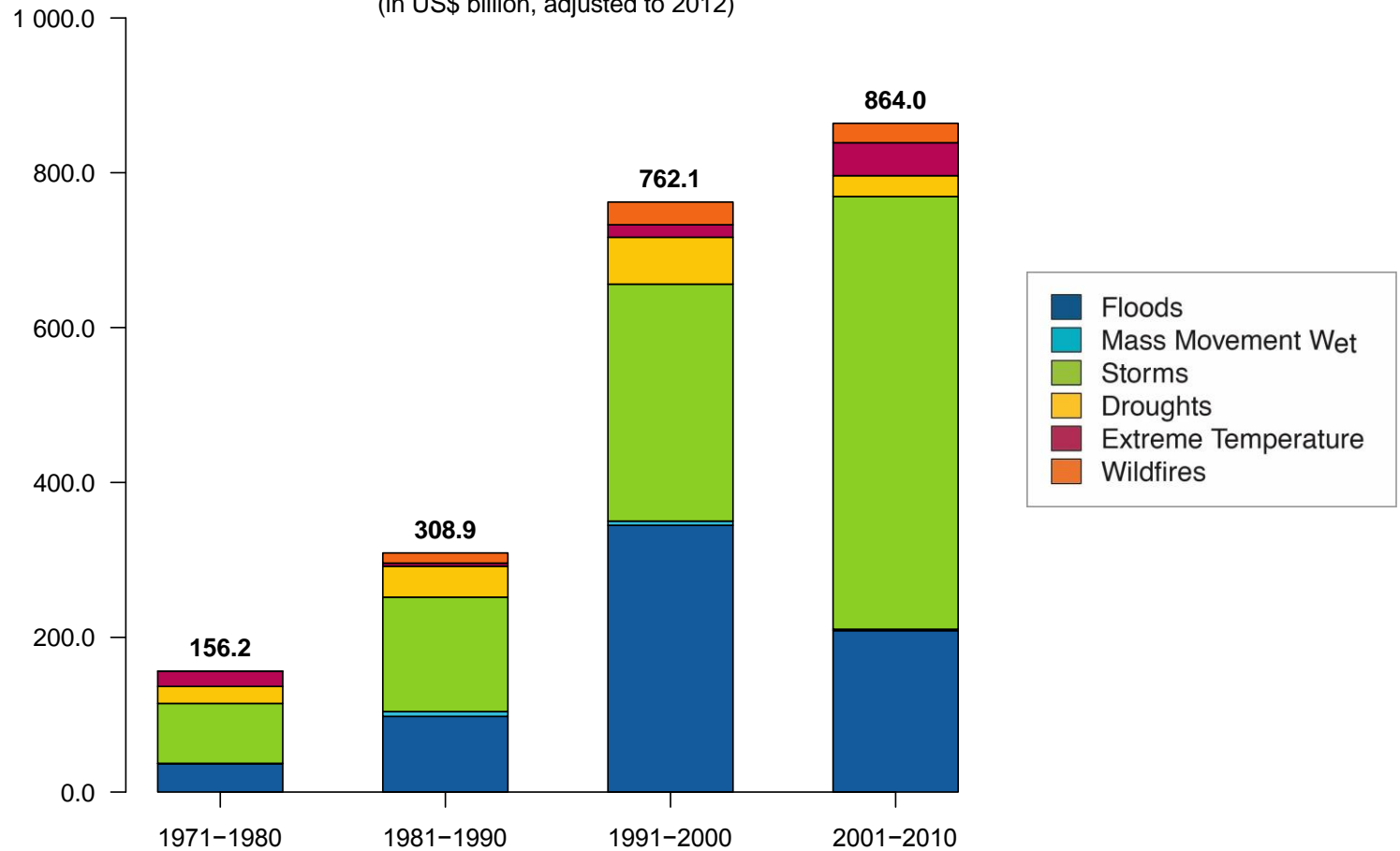
Source: EM-DAT: The OFDA/CRED International Disaster Database - [www.em-dat.be](http://www.em-dat.be)  
Université Catholique de Louvain - Brussels - Belgium



# Global

## Reported economic losses by decade by hazard type (1971–2010)

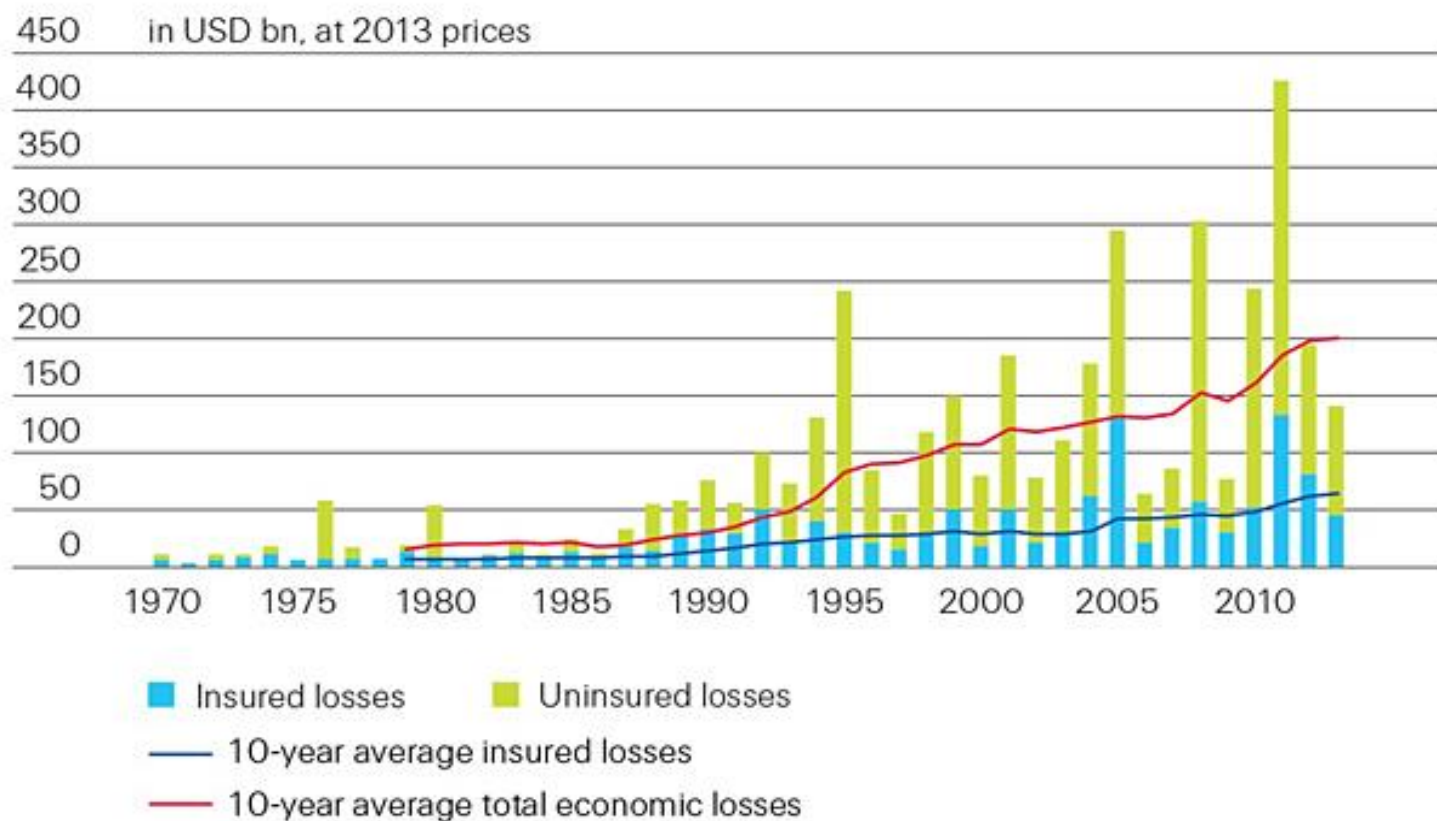
(in US\$ billion, adjusted to 2012)



Source: EM-DAT: The OFDA/CRED International Disaster Database - [www.em-dat.be](http://www.em-dat.be)  
Université Catholique de Louvain - Brussels - Belgium



# Insured losses vs Uninsured Losses 1970-2013



Economic loss = insured + uninsured losses

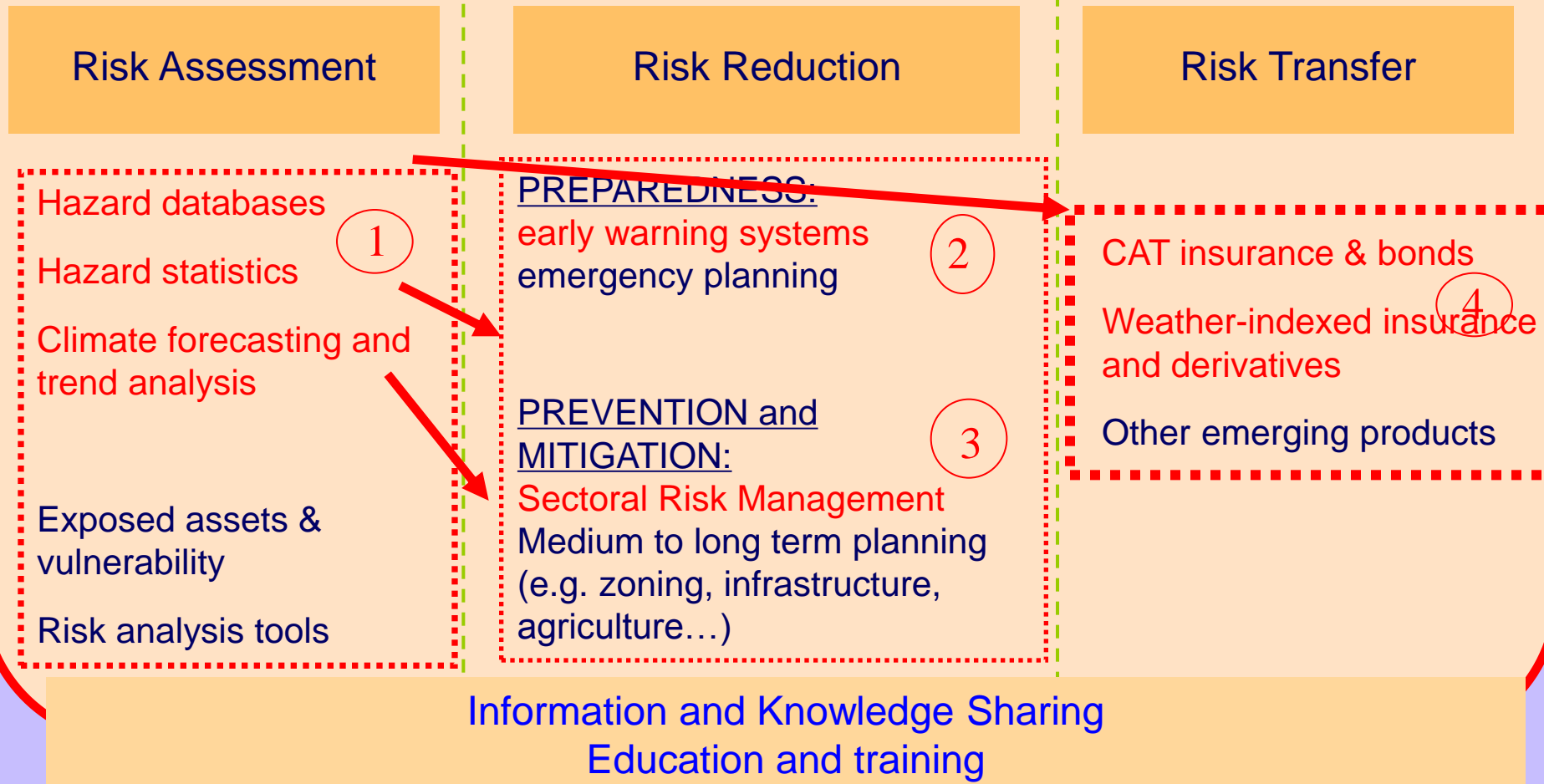
Source: Swiss Re Economic Research & Consulting



# Hyogo Framework for Action 2005 – 2015

## Weather, Hydrological and Climate Services for Comprehensive Risk Management Decision Making

### Governance and Institutional Framework (Multi-sector, Multi-level, Multi-Hazard)



# Why is DRR and Climate Adaptation Important?

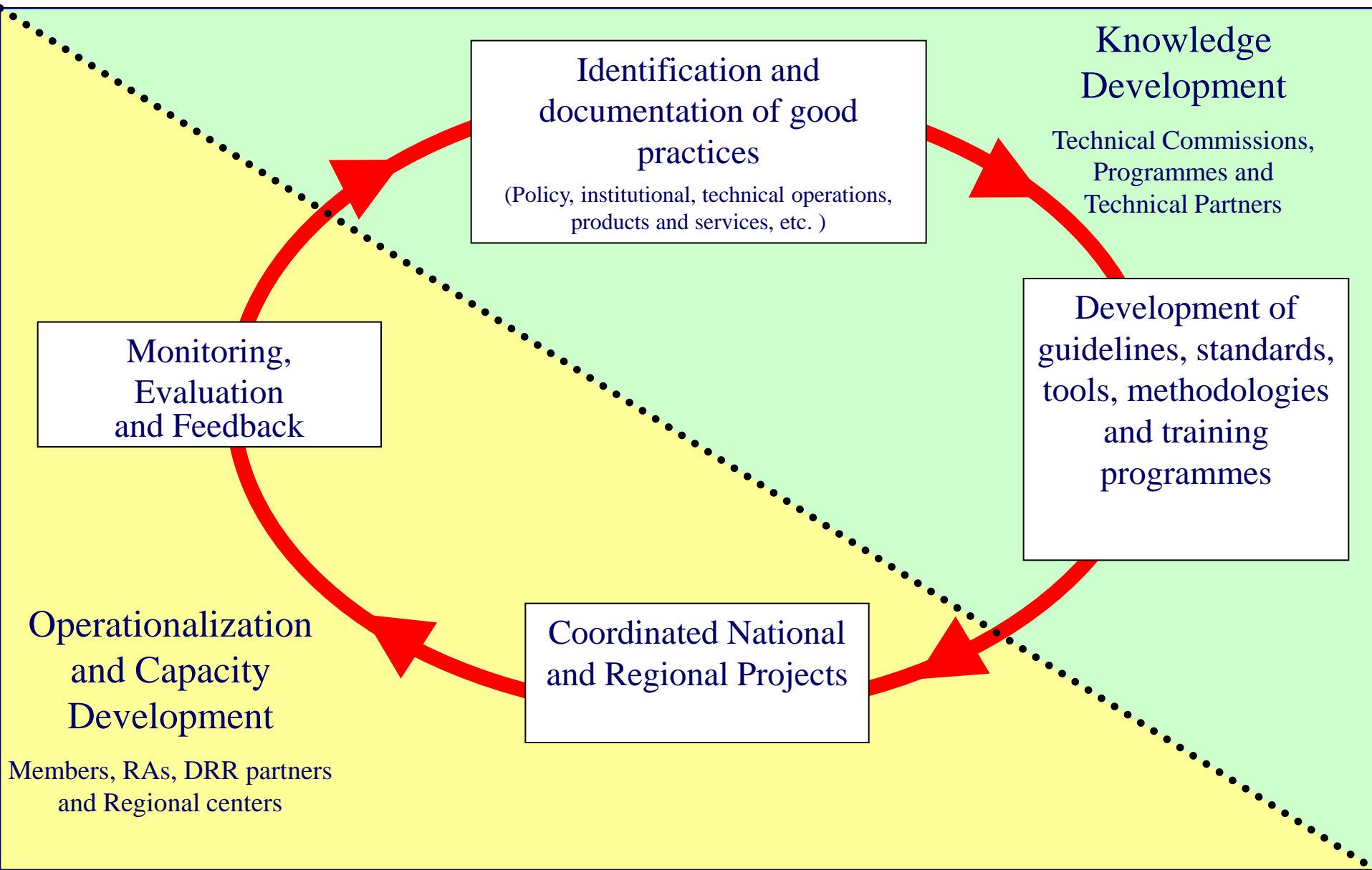


# WMO DRR Crosscutting Programme

To leverage expertise, resources and capacities of WMO Members, technical programmes and operational network and to build alliances with the UN and other partners to support capacity development for disaster risk reduction decision-making at all levels.



# Strengthening Services through Linking Knowledge and guidelines to Capacity Development Projects





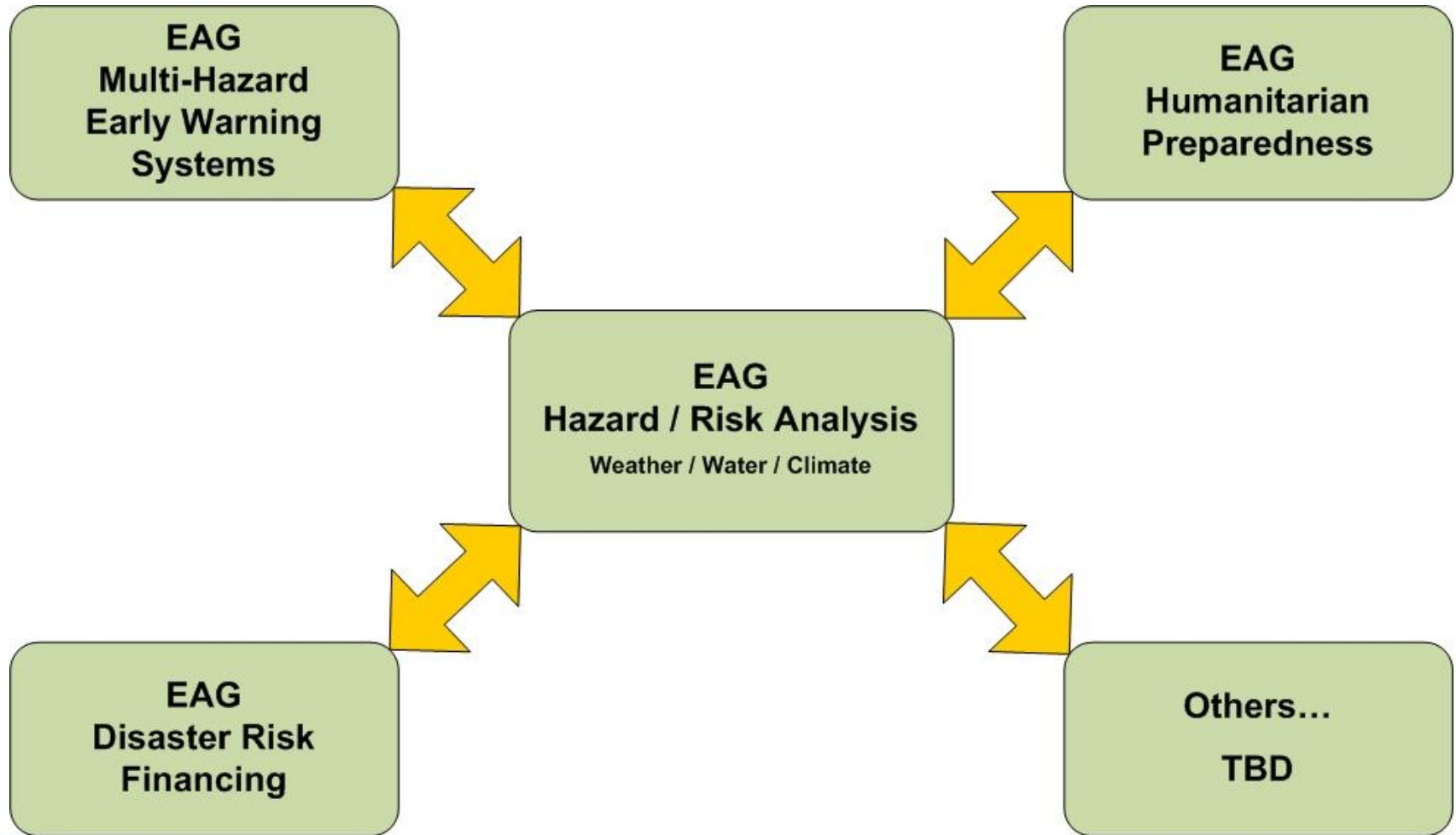
# DRR Implementation Approach

## Thematic Guidelines and good practices

- ❖ Thematic Expert Advisory Groups (Users, partners, WMO Members) to guide the overall approach
  - ❑ Expert Advisory Group on MHEWS
  - ❑ Expert Advisory Group on Hazard/Risk Assessment
  - ❑ Expert Advisory Group on Financial Risk Transfer
  - ❑ Task Team for provision of Met/Hydro and Climate Services for Humanitarian Planning, Preparedness and response
- ❖ Systematic engagement of WMO technical commissions/programmes and Members
- ❖ Leveraging with other partners'



# User-Driven Expert Advisory Groups (EAG) to guide WMO DRR Work Plan Implementation



# **WMO DRR Expert Advisory Group on Climate Services Disaster Risk Financing (EAG- CSDRF)**

## **Members**

### **Countries**

Malawi, China, Russian, Federation, Ethiopia, Australia, United Kingdom, United States of America

### **WMO Technical Commissions and Programmes**

CAGM, WWRP, WCRP

**Organizations:** UNEP-FI, WFP, Willis Research Network, CIMH, CSIRO, UNISDR, Munich Re, UNFCCC, World Bank, IFAD, Swiss Re, OASIS, University of Kentucky and Geneva Association (Insurance) Spell out and name focal points / members



# EAG- CSDRF – Deliverables (2015-2016)

- Report: Meteorological and Climate Services for Disaster Risk Financing and Insurance: Documentation of Good Practices and Lessons learned (2015)
- “WMO Guidelines on Requirements for meteorological and climate services for disaster risk financing and Insurance” (2015 – Early 2016)



# **Outcomes of the First Meeting of the WMO Expert Advisory Group on Financial Risk Transfer (EAG-DRF I)**

**13-14 December 2011**

*[http://www.wmo.int/pages/prog/drr/events/EAG-FRT/FRT1/index\\_en.html](http://www.wmo.int/pages/prog/drr/events/EAG-FRT/FRT1/index_en.html)*



# Outcomes of the First Meeting of the EAG-DRF I

- need for **training of the stakeholders in the financial sector** (public and private) on the scientific understanding and technical developments with forecasting and analyzing changing patterns of extreme events linked to climate variability and change and related impacts.
- There is a need for **historical meteorological and hydrological data extending to 30 years or greater**. It was emphasized that in many countries especially Least Developed Countries (LDC) and developing countries there is a significant need for data rescue and quality management programmes.
- **Access to timely weather and water data and information during the insurance contract period** would be critical for portfolio management and contract settlement. It was expressed that in many countries the time to obtain meteorological data is often too long to manage portfolios and settle contracts.
- Need for **modeling, Meteorological forecasts (0 – 14 days) and climate model outputs (with up to one year timeframe)** are fundamental for the design, development of insurance contracts, claims adjustments and settlements. There is a greater need for customized model outputs, analysis and various scenarios with confidence levels to service the insurance sector.
- Need for **documentation of good practices and lessons learned from NMHS and regional centers** that are servicing these markets (from both the user and provider perspectives).



# **WMO Contribution to the Third World Conference on Disaster Risk Reduction (WCDRR-III)**

Sendai City, Miyagi Prefecture, Japan  
14 to 18 March 2015



# Preparations for WMO engagement at WCDRR-III

## ❖ High-level Dialogue / Official Plenary Session

## ❖ Ministerial Roundtables

- International Cooperation for a Post-2015 Framework for DRR
- Inclusive Disaster Risk Management: Governments, Communities and Groups Acting Together
- Risk Sensitive Investment: Public-Private Partnerships
- Mobilizing Women's Leadership in DRR



14-18 March 2015  
Sendai, Japan



# Preparations for WMO engagement at WCDRR-III (3/4) – Multi-stakeholder Segment

## ❖ 36 Working Sessions

WMO is member of the organizing team (confirmed by UNISDR) for:

- Risk Identification and Early Warning
- Integrated Water Resources Management (IWRM / IFRM)
- Applying Science & Technology to DRR Decision-making

## ❖ Ignite Stage, Study Tours, Excursions



# Preparations for WMO engagement at WCDRR-III (4/4) – Public Forum

## ❖ Symposium / Side event on MHEWS and Services

- One full day  
Supported by Japan, interest also from Germany and Philippines

## ❖ Special Exhibition

- WMO together with JMA and other partners (e.g. Philippines) to provide a demonstration exhibition on forecasting & early warning

## ❖ Contributions to **One-UN booth**

- Brochures and other material to be distributed





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# Thank you for your attention