

# The Sendai Framework: Recent Developments on water and transboundary cooperation

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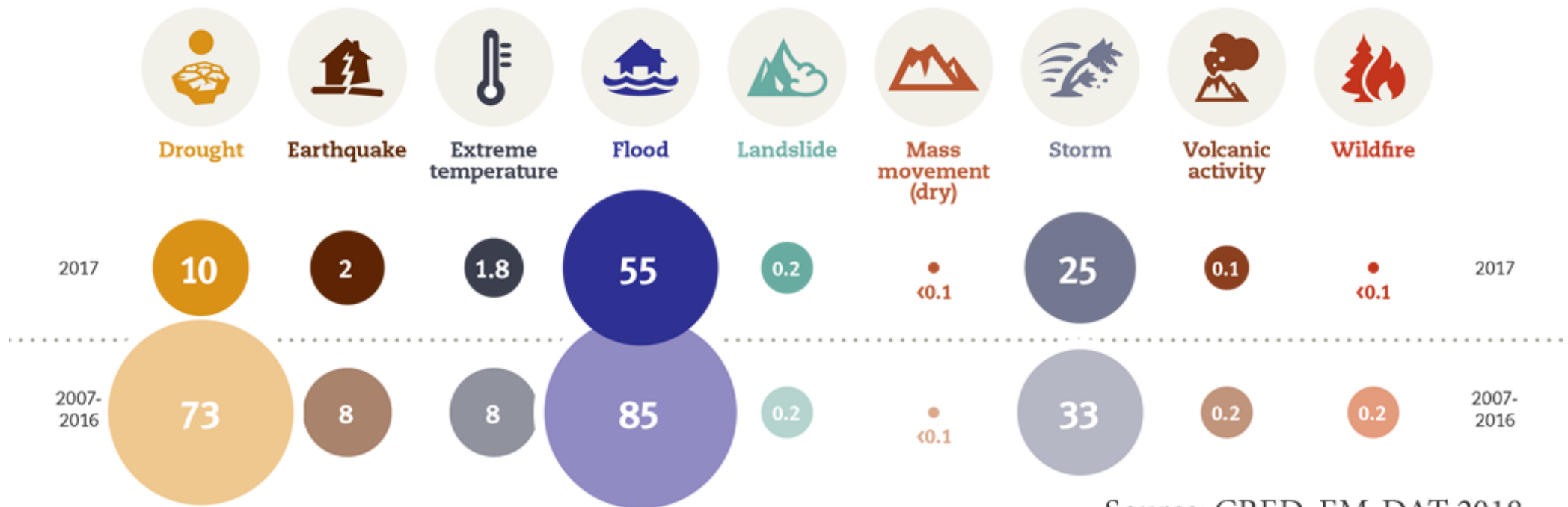
# Increasing water related disaster risk

Number of affected (million) by disaster type: 2017 compared to 2007-2016

210  
2007 to 2016

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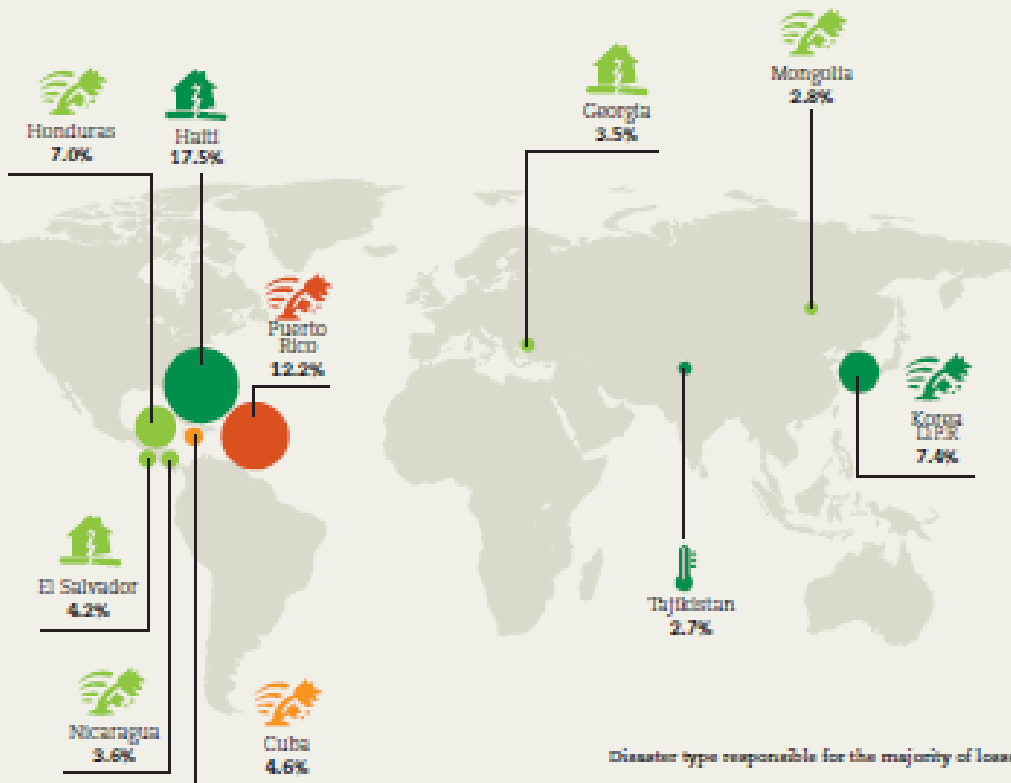
96  
in 2017



Source: CRED, EM-DAT 2018

Top 10 countries in terms of average annual percentage losses relative to GDP

- High income
- Upper-middle income
- Lower-middle income
- Low income

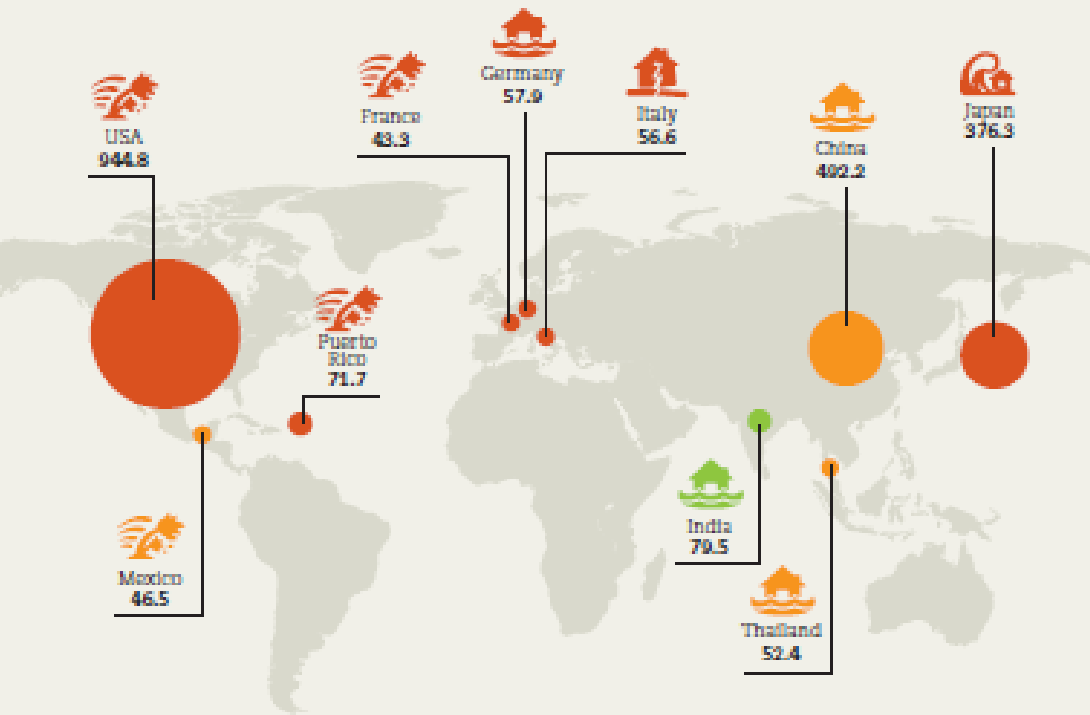


Disaster type responsible for the majority of losses

- Earthquake
- Extreme temperature
- Earthquake & Tsunami
- Flood
- Storm
- Drought

Top 10 countries in terms of absolute losses (billion USD) 1998-2017

- High income
- Upper-middle income
- Lower-middle income
- Low income



Disaster type responsible for the majority of losses

- Earthquake
- Extreme temperature
- Earthquake & Tsunami
- Flood
- Storm
- Drought

\* Excluding small states. See Annex for the list of small states. See Annex for the methodology on the calculation of economic losses related to GDP

Source: UNISDR & CRED (2018) Economic Losses, Poverty and Disasters, 1998-2017

# Water risk

- At present **2.5 billion people live in water-scarce regions** and it is estimated that **by 2050, their numbers will rise to 4.8 billion**, more than half of the world's population.
- Overall, water-related disasters account for almost **90% of the 1,000 most devastating disasters** of the last thirty years.
- **Floods account for almost 50%** of all weather-related disasters.
- **Hydro-meteorological disasters** continue to bring about the highest numbers of **displacement**: In 2017 disasters, caused by natural hazards displaced 18.8 million people

# Sendai Framework for Disaster Risk Reduction

2015 - 2030



Preventing  
creation of new  
disaster risk



Reducing existing  
disaster risk



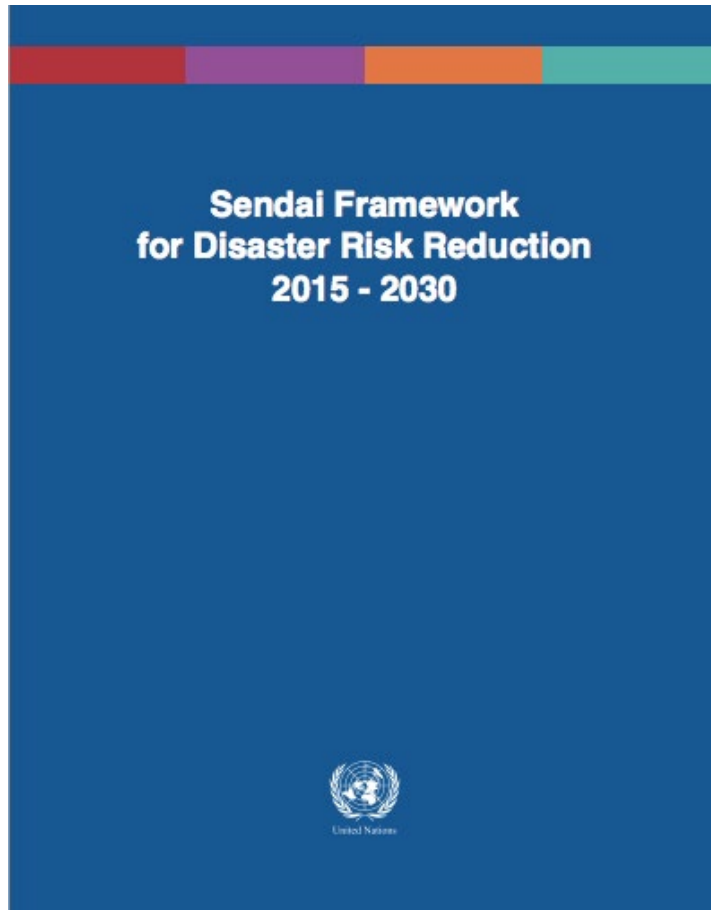
Managing residual  
risk

Risk informed measures that build resilience and that are integrated and inclusive of whole-of-society

## Risk informed DRR Measures

Economic  
Structural  
Legal  
Social  
Health  
Cultural  
Educational  
Environmental  
Technological  
Political  
Institutional

# Water in the Sendai Framework



34(e): To support, as appropriate, the efforts of relevant UN entities to strengthen and **implement global mechanisms on hydro-meteorological issues** in order to raise awareness and **improve understanding of water-related disaster risks and their impact on society**, and advance strategies for DRR upon the request of States;

33(c): To promote the resilience of new and existing critical infrastructure, including ... **water infrastructure**

# UNISDR is custodian of SDGs indicators on DRR

Number of deaths, missing persons and persons affected by disaster per 100,000 people

Direct disaster economic loss in relation to global gross domestic product (GDP)

Direct disaster economic loss in relation to global GDP, including disaster damage to critical infrastructure and disruption of basic services

Number of countries with national and local disaster risk reduction strategies

Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030



# **Global target E: Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020.**

E-1 Number of countries that adopt and implement national disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030.

E-2 Percentage of local governments that adopt and implement local disaster risk reduction strategies in line with national strategies



# Coherence Across the International Agendas

**SUSTAINABLE  
DEVELOPMENT  
GOALS**



COP21-CMP11  
**PARIS 2015**  
UN CLIMATE CHANGE CONFERENCE



- Overall coherence with 2030 Sustainable Development Agenda
- Concrete links between Sendai indicators and SDGs 1,11 and 13, work concluded
- On-going coherence between Sendai Framework and Paris agreement on national strategies and reporting mechanisms;

# Conclusions

- Water related disaster risk is **increasing**. Decisions today shape future risk
- Sendai Framework implementation and disaster risk reduction governance is evolving. **Aligning National Strategies and Investment Plans to match the risk from water related disasters** and ensure transboundary cooperation is essential
- The Words into Action Guidance on Addressing Water-Related Disasters and Transboundary Cooperation, led by UNECE, **is a key contribution.**

# WIA - Words into Action

## Implementing the Sendai Framework

In support of the Sendai Framework  
for Disaster Risk Reduction 2015 - 2030

# WiA in a nutshell

WiA is a long-term initiative to support countries and practitioners to implement critical aspects of the Sendai Framework. The most visible product is a set of practical how-to guides that have the potential to be widely used resources in national and local capacity building, and that can strengthen our organizations' role as a broker in DRR through providing quality knowledge services.

Guides will provide practical implementation advice, are meant to be used as a reference for technical and policy discussions, and serve to build capacity through workshops and training in academic and professional settings at the national and local level. And more.

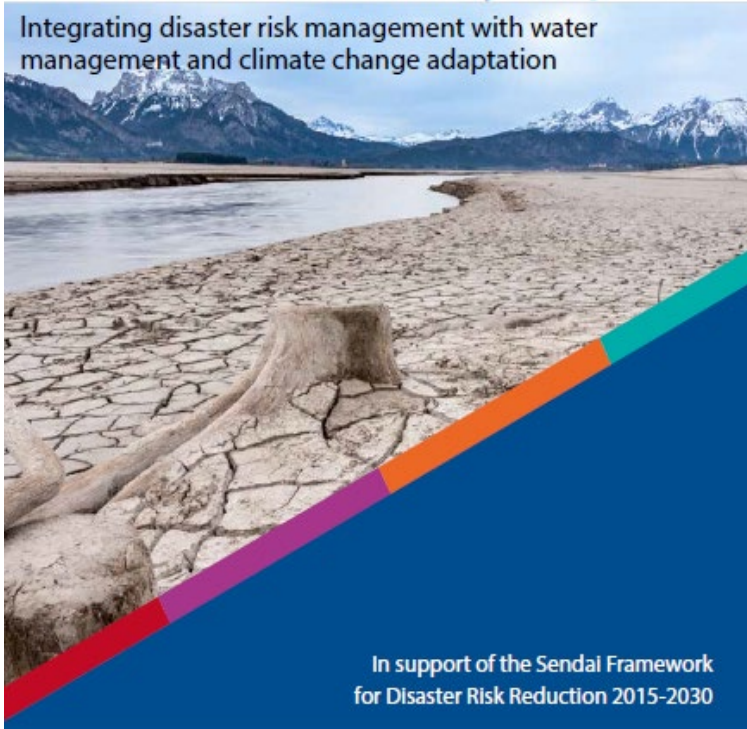
# Words into Action guides

- *National disaster risk assessment; Governance System, Methodologies, and Use of Results (released)*
- *National DRR strategies (close to completion)*
- *Man-made and technological hazards (public consultation)*
- *Disaster Displacement: How to Reduce Risk, Address Impacts and Strengthen Resilience (public consultation)*
- *Local disaster risk reduction and resilience strategies (public consultation)*
- *Enhancing Disaster Preparedness for Effective Response; with an addendum 'Concise Guide on Design and Conduct of Simulation Exercises'(public consultation)*
- *National Focal Points for Disaster Risk Reduction; National Platforms for Disaster Risk Reduction; Local Platforms for Disaster Risk Reduction (public consultation)*
- *Build back better in recovery, rehabilitation and reconstruction (public consultation)*

# Addressing Water-Related Disasters and Transboundary Cooperation

## Words into Action Implementation Guide for Addressing Water-Related Disasters and Transboundary Cooperation

Integrating disaster risk management with water management and climate change adaptation



In support of the Sendai Framework  
for Disaster Risk Reduction 2015-2030

*This WiA guide has been prepared in the framework of the Convention on the Protection and Use of Transboundary Watercourses and International Lakes (Water Convention) serviced by UNECE in cooperation with UNISDR to support the implementation of the Sendai Framework.*

*It aims to raise awareness on the importance of river basin management and transboundary cooperation in Disaster Risk Reduction, while taking into account climate change adaptation. It provides information on steps that governments and other stakeholders at the different levels can take.*

# Thank you

13 OCTOBER

**INTERNATIONAL DAY  
FOR DISASTER REDUCTION**  
REDUCING ECONOMIC LOSSES



European Forum for Disaster Risk Reduction  
Italy, 21-23 November 2018

<https://www.unisdr.org/conference/2018/efdr>

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