

Sendai Framework for Disaster Risk Reduction: Regional risk trends and the role of standards

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#Switch2Sendai

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

Introduction

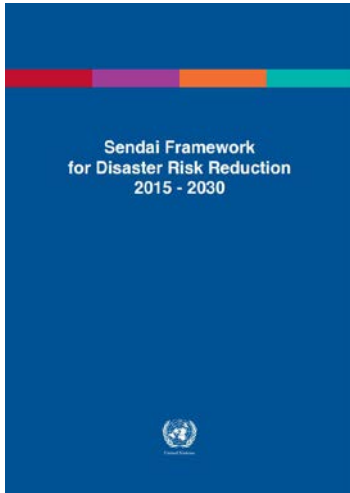
Content

The Sendai Framework for Disaster Risk Reduction 2015-2030

Regional risk trends

The Role of Standards

The Sendai Framework



Switch from disaster management to **disaster risk management**

Preventive approach to addressing DRR **focused on people**

A **primary** responsibility of States for DRR

A **shared** responsibility with relevant actors for DRR

It adds environmental, technological, biological and human-caused threats

The Sendai Framework

4

Levels



Role of Relevant
Actors



International Cooperation and
Global Alliance



Local

National

Regional

Global



4 Priorities for action

1st Understand disaster risk

3rd Invest in disaster risk reduction

2nd Strengthen
the governance of disaster
risk to manage risk

4th Increase
disaster preparedness in order to
provide an effective response and
to “build back better”

7 Global targets

Reduce



Number of deaths/
Global population



Affected population/
Global population



Economic loss / Global GDP



Damage to critical infrastructure
and interruption of basic services



Increase



Countries with national strategies &
local DRR



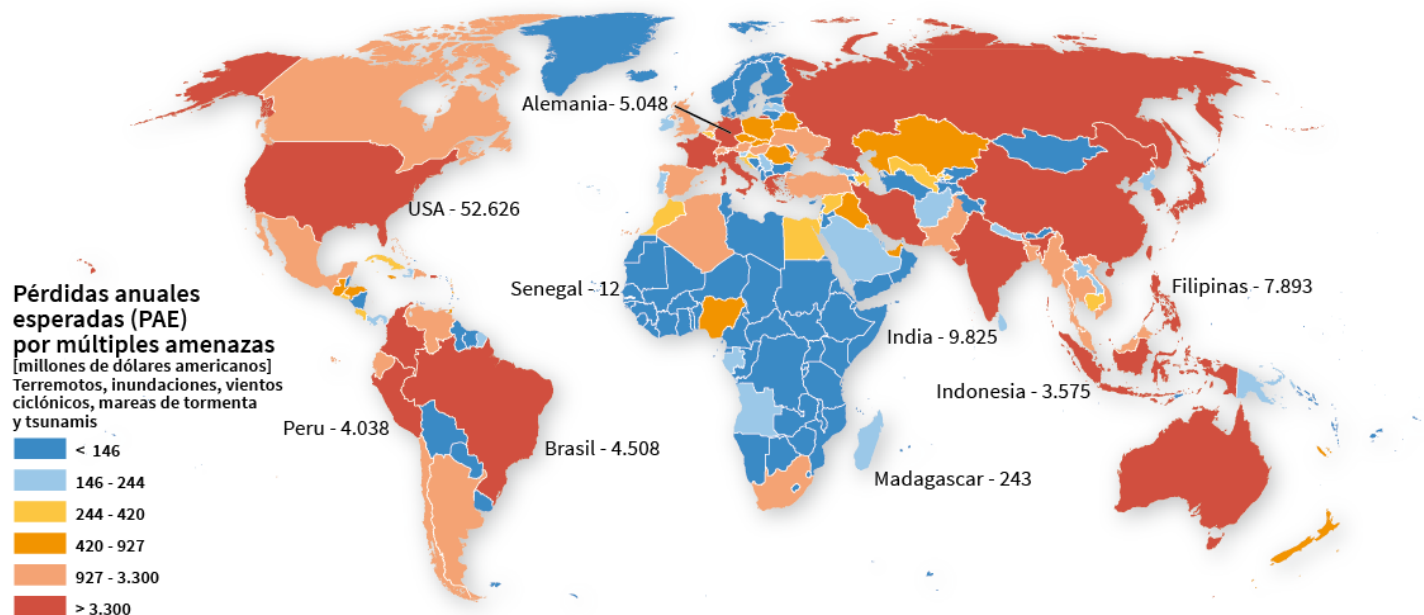
International Cooperation for
developing countries



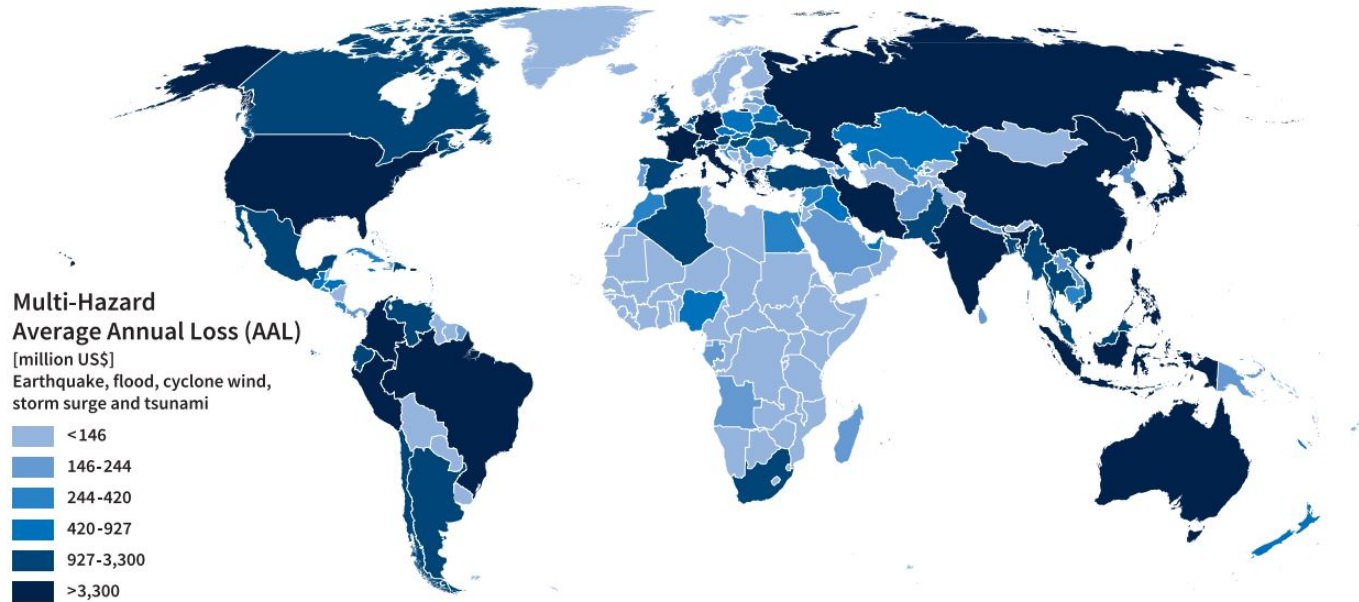
Availability and access to multi-threat
early warning systems, information
and risk assessments



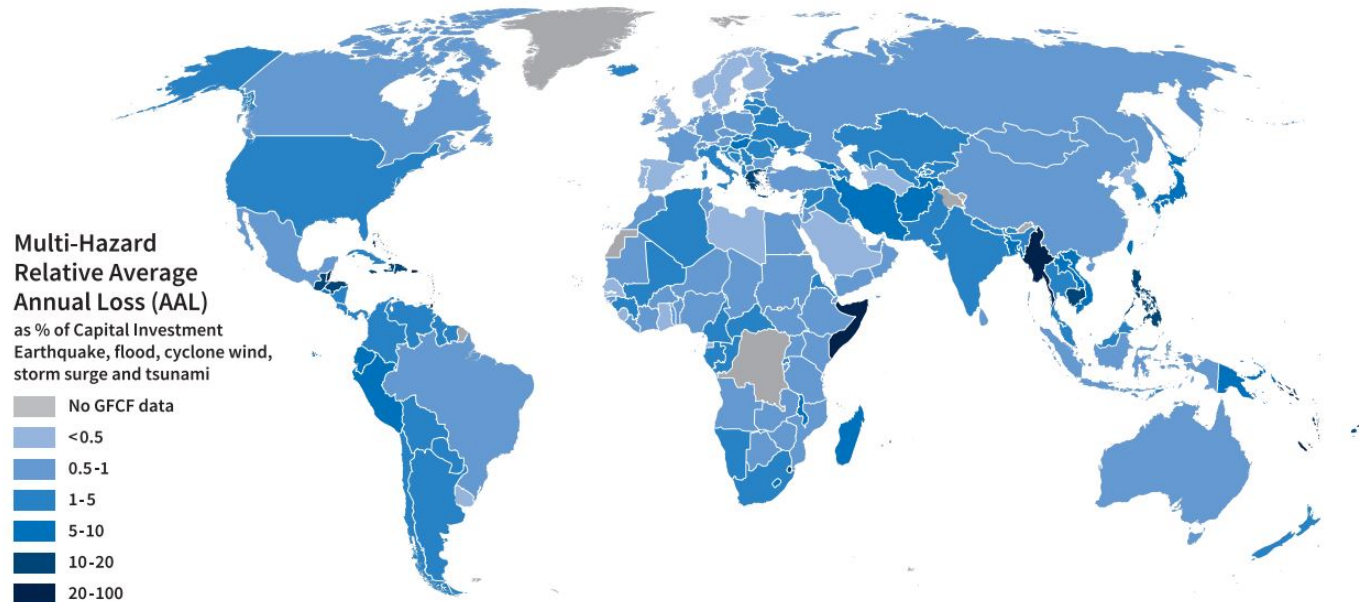
Risk scenario



Risk scenario



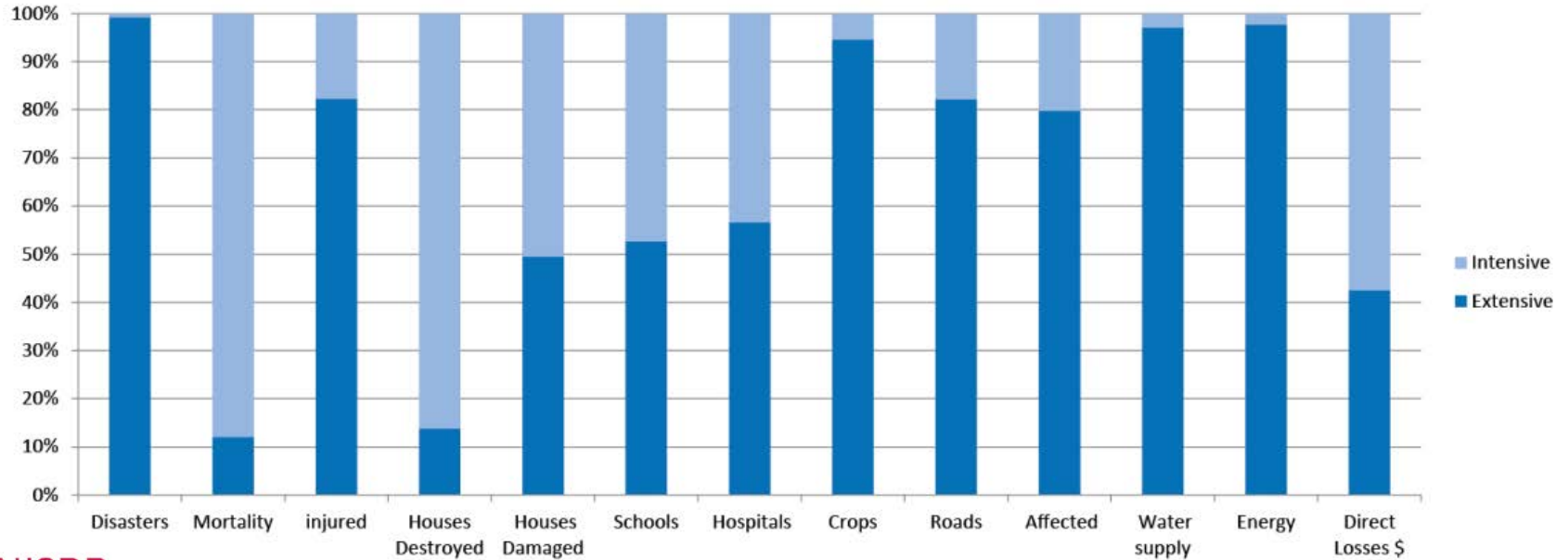
Risk scenario



Risk scenario

Extensive risk - eroding resilience (85 countries USD 94 billion in the last decade)

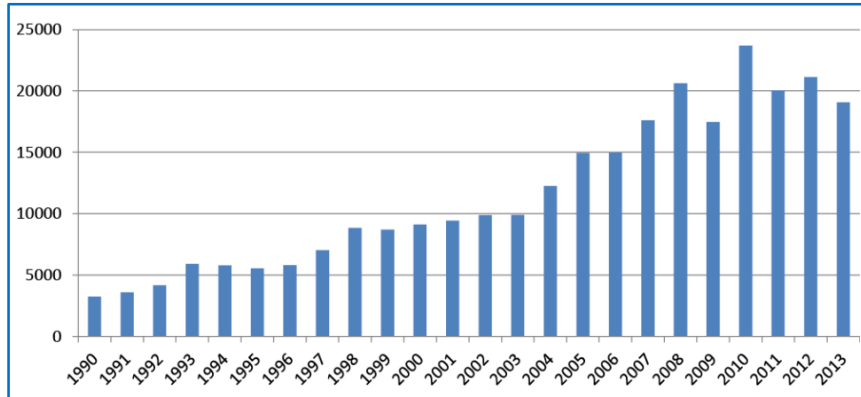
Most of the impacts of disasters on infrastructure are associated with extensive risk



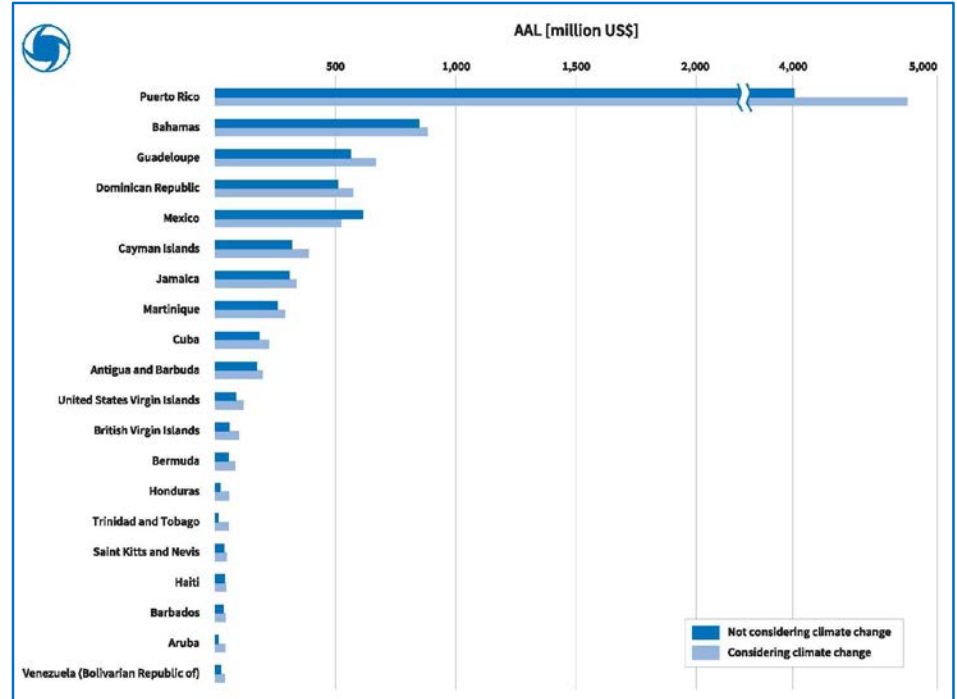
Distribution (%) of different types of losses between Extensive and Intensive

Risk scenario

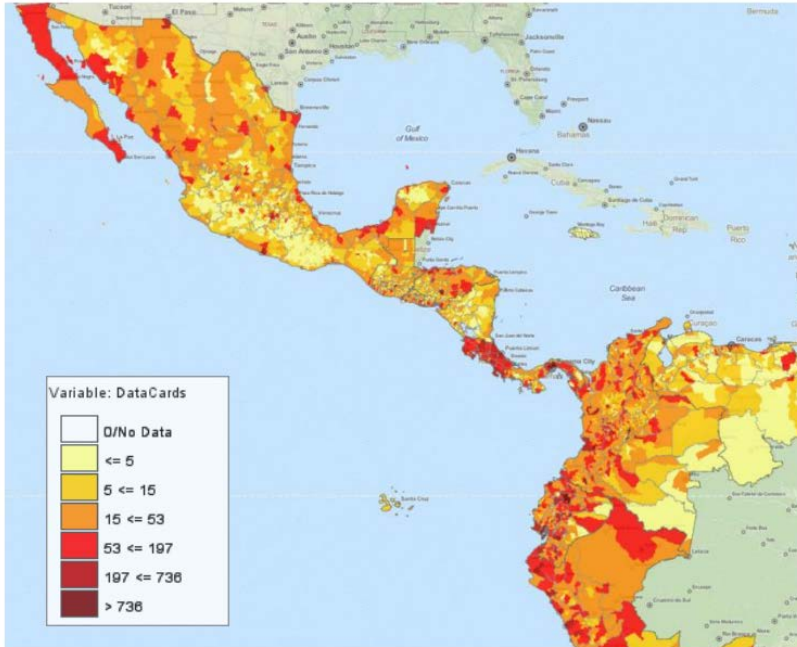
Climate change is predicted to increase disaster risk in the Caribbean basin: AAL from tropical cyclone wind for Caribbean and Central American countries, with and without climate change
(on the right)



Number of extensive disaster records per year in countries 1990-2013

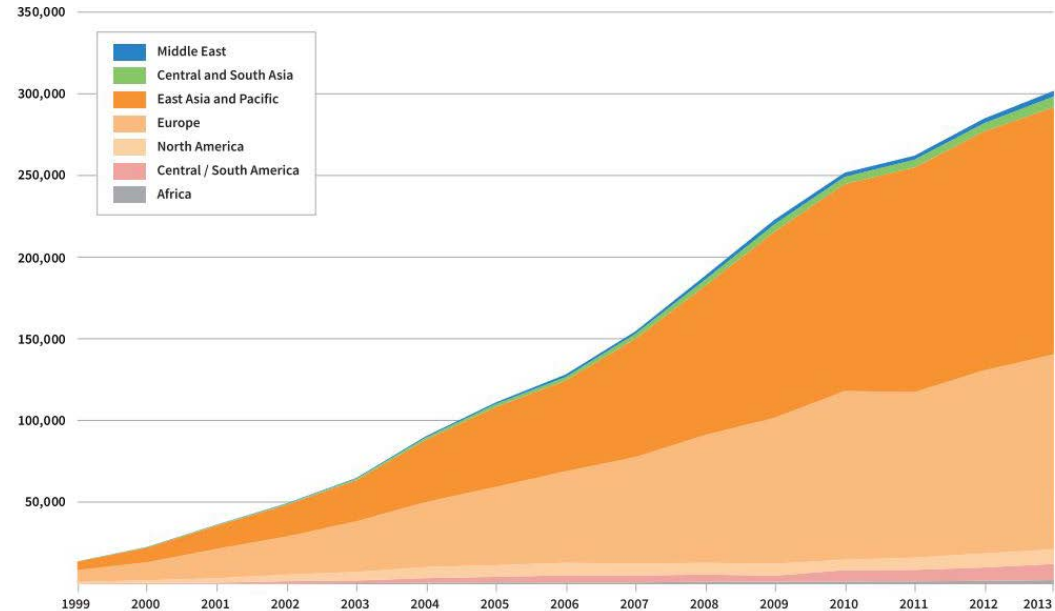


Risk scenario



Number of extensive disasters in municipalities in several Latin American countries

Number of certifications



Uptake of environmental management system standards ISO 14001
(Source: ISO, 2014)

Role of Standards in DRR

Standards are a key part of the Sendai Framework. Essential to protect :

- economic activity
- trade and infrastructure
- community wellbeing
- human safety

Standards support:

- better governance and risk management
- develop resilience to disasters

Sendai Framework is an opportunity for renewed cooperation with standards organizations

UN and ISO

UNISDR is collaborating with ISO in two technical committees developing standards:

ISO/TC 268 Sustainable cities and communities

- **10** published ISO standards
of which 4 under the direct responsibility of ISO/TC 268
- **11** ISO standards under development
of which 6 under the direct responsibility of ISO/TC 268
- **35** Participating members: 6 of the Americas Region
Barbados, Canada, Chile, Ecuador, Mexico, USA
- **22** Observing members: 4 of the Americas Region
Argentina, Brazil, Colombia, Trinidad and Tobago

ISO/TC 292 Security and resilience

- **27** published ISO standards under the direct responsibility
- **18** ISO standards under development under the direct responsibility
- **45** participating members: 9 of the Americas Region
Argentina, Brazil, Canada, Colombia, Haiti, Mexico, Panama, Trinidad and Tobago, USA)
- **16** observing members: 1 of the Americas Region
Chile

Examples of standards for DRR

- **ISO 3100:2018** Risk management - Guidelines
- **ISO Guide 73:2009**, Risk management - Vocabulary complements ISO 31000 by providing a collection of terms and definitions relating to the management of risk.
- **IEC 31010:2009**, Risk management - Risk assessment techniques focuses on risk assessment.
- **ISO 14000 family** - Environmental management
- **IEC 31010:2009** focuses on risk assessment concepts, processes and the selection of risk assessment techniques.
- **ISO 37120:2014** Sustainable development of communities – Indicators for city services and quality of life (currently being revised)
- **ISO 24518:2015** – Crisis management of water utilities
- **ISO/TR 18317:2017** - Intelligent transport systems -- Pre-emption of ITS communication networks for disaster and emergency communication -- Use case scenarios

Standards in the Sendai Framework

25 g) To **enhance** the scientific and technical work on disaster risk reduction [...]; provide guidance on methodologies and **standards for risk assessments**

27 j) To **promote** the development of quality **standards**, such as certifications and awards **for disaster risk management**

30 h) To **encourage** the revision of existing or the development of new building codes and **standards**

33 j) To **promote** the incorporation of disaster risk management into post-disaster recovery and rehabilitation processes [...] including through the development of measures such as **structural standards** etc.

33 k) To **develop** guidance for preparedness for disaster **reconstruction**, such as [...] structural **standards** improvement

34 b) To **promote** the further development and dissemination of instruments, such as **standards**, codes, operational guides and other guidance instruments

36 a) (Role of organizations) [...] **provide** specific knowledge and pragmatic guidance in the context of the development and **implementation of** normative frameworks, **standards** and plans for disaster risk reduction

36 c) Business, **professional associations** and private sector financial institutions [...] **actively participate** [...] in the **development of** normative frameworks and **technical standards** that incorporate disaster risk management

Articles of the Sendai Framework for
Disaster Risk Reduction 2015-2030

Common objectives, challenges and goals

- Making Cities Resilient Campaign. Strengthen common goals fortifying the link between ten essentials
- Partnership with private sector: ARISE
- ISO Action Plan for developing countries
- Resilient infrastructure
- Sustainable development

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