

Breaking down the Silos for More Effective Multi Hazard Early Warning

Integrated Multi Hazard Early Warning Systems and Services

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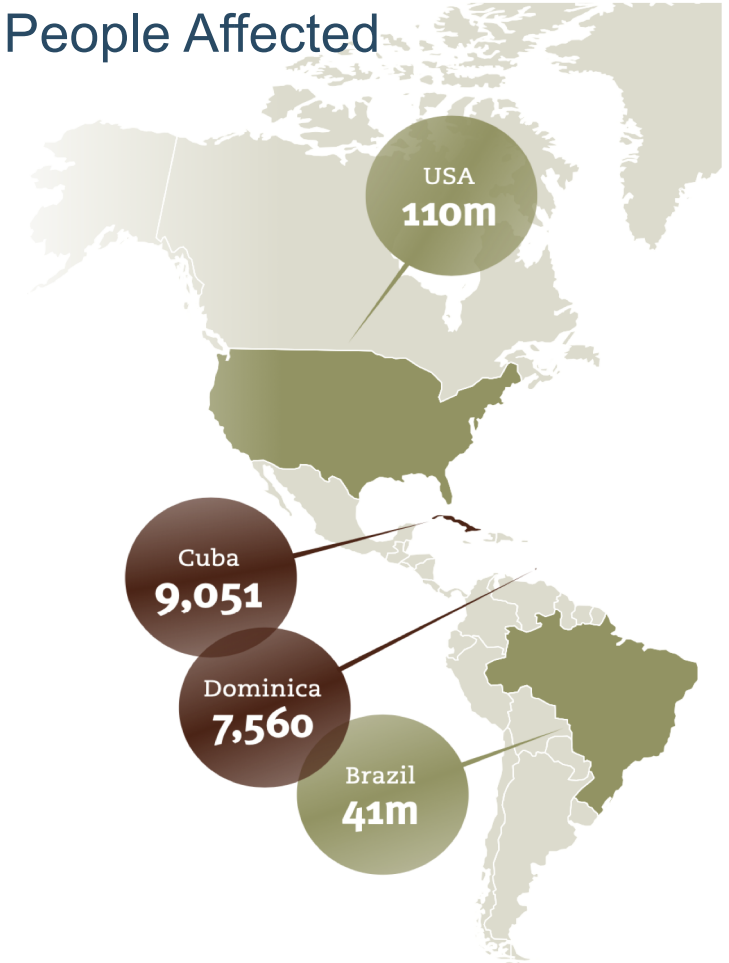


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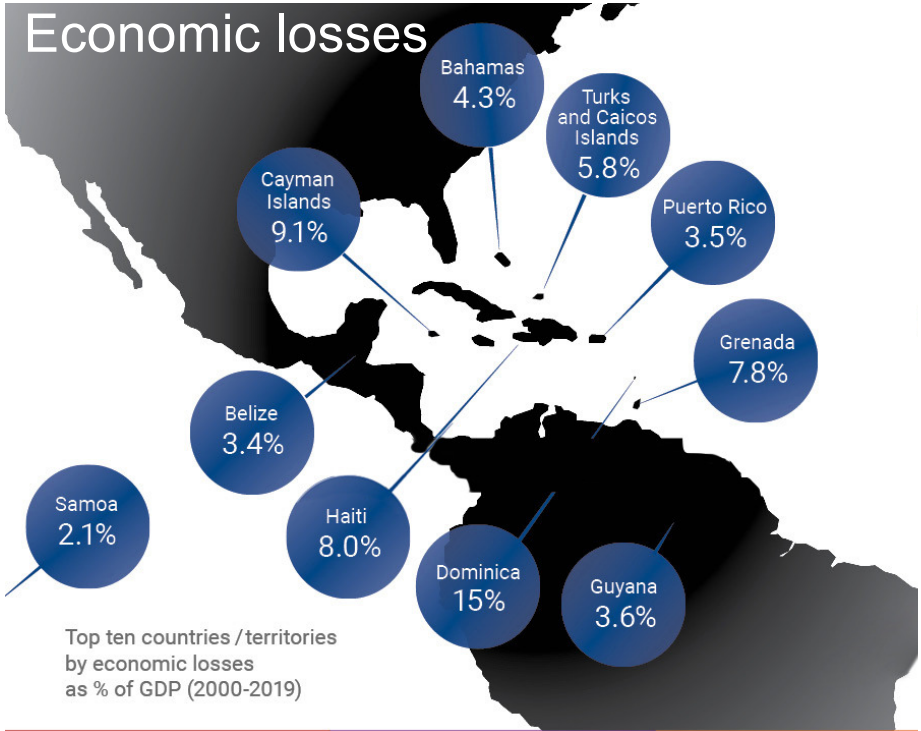
Impacts on people and assets in the LAC region (2000-2019)

People Affected



■ Total Affected ■ Total Affected /100,000

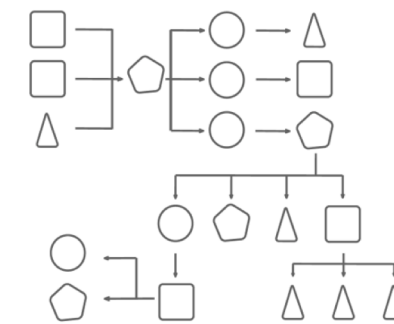
Economic losses



Most impacted countries in the LAC region are located in the Western Tropical Atlantic Region

Risk is complex

- Understanding risk means understanding what we know, what we don't know, and even trying to tackle what we know we don't know.
- There is a growing and complex interaction of political, human, economic systems with natural ones
- We need to understand how to deal with it without resorting to reductive measures that isolate and ignore the systemic nature of risk.



COMPLICATED



Growing risk in a shrinking world

- **Change does not happen in silos or in straight lines.**
- Non-linear change brings new threat patterns
- The choices we make are creating new, emerging and larger risks.
- Human activity grows exposure, increasing the propensity for systems reverberations,
- The cascading consequences of risks happens across sectors and at different levels. (Sometimes there are difficult to foresee)

United Nations Office for Disaster Risk Reduction

GVR

**Global Assessment Report
on Disaster Risk Reduction**

2019



DRR at the Core of the Global Agendas



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21-CMP11

New Approach to Risk

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Multi-sector

Multi-stakeholder

Multi-level

SUBSTANTIALLY REDUCE

- A. Global disaster mortality
- B. Number of affected people
- C. Economic loss in relation to GDP
- D. Damage to critical infrastructure and services disruption

**SEVEN TARGETS
TO ACHIEVE
BY 2030**

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- E. Number of countries with national and local DRR strategies by 2020
- F. International cooperation to developing countries
- G. Availability and access to early warning systems and DRR information

SUBSTANTIALLY INCREASE

Multi Hazard Early Warning Systems



Early: Lead time
Warning: Decision-making
System: Flows and interactions

4 Key Core Elements

1

Risk Knowledge

2

Monitoring and Warning Service

3

Dissemination and Communication

4

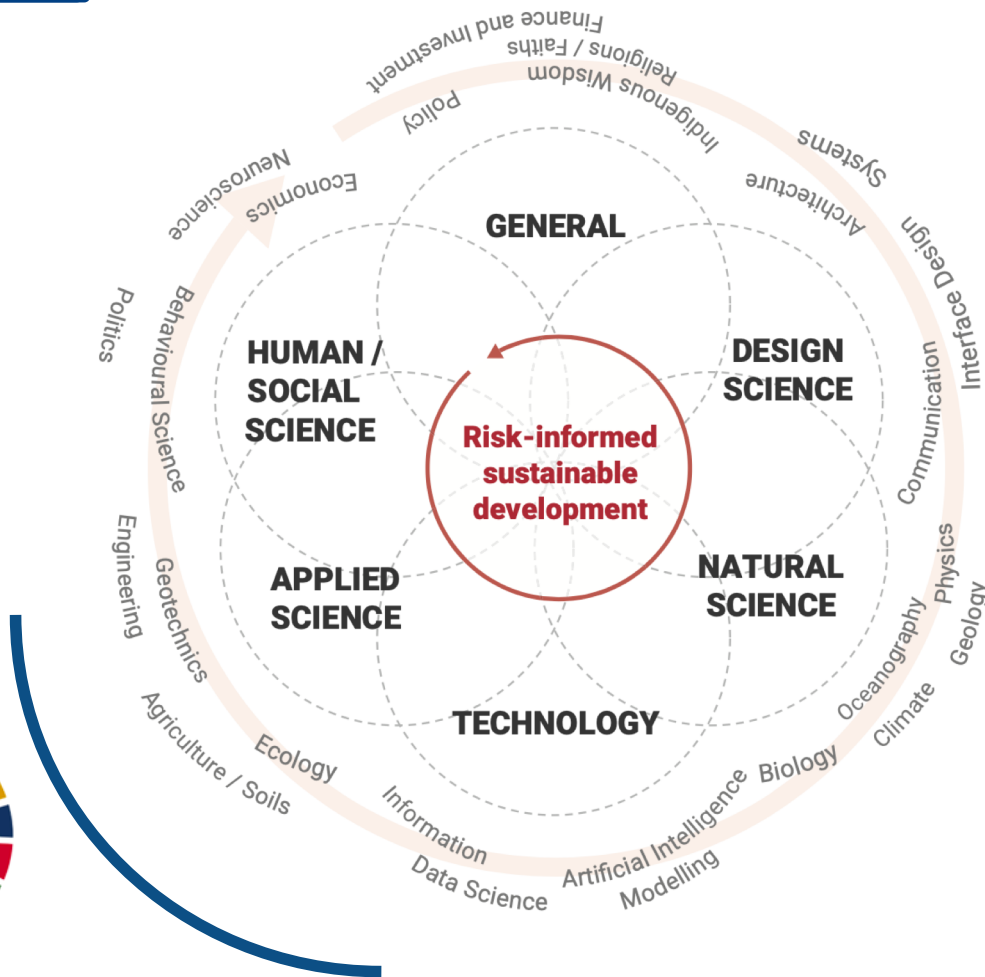
Response Capability

MHEWS – Shaping the Concept

- Is **not** about making a single system work for all hazards.
- Is about **taking advantage of the existing capacities and advancements** of different EWS (individual, cluster or multi hazard), in the different core four elements of EWS.
- Is about taking into consideration the **cascade effects** while a specific hazard can trigger another one(s)
- Is about **strengthening coordination, synergies, and efficiency** in the use of resources and in providing the warning
- Is not only about being multi-hazard but **multi-sectoral** in their detection and in their response preparation.



UN Decade and Risk-informed sustainable development



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

The UN Decade of Ocean Science for Sustainable Development:

- Is an opportunity to improve the understanding of the impacts of ocean related risk and in the complex interaction of different natural and social systems;
- Could provide evidence-based knowledge to build prevention mechanisms for risk-informed sustainable development, including through MHEWS.

Recommendations for Breaking down the Silos for Effective MHEWS

- Systemic approach to MHEWS
- Better share and link data
- Improve disaster risk governance
- Coordinate actions
- Engage on political discussions and forums aiming to improve risk-informed sustainable development



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development



Thank you

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