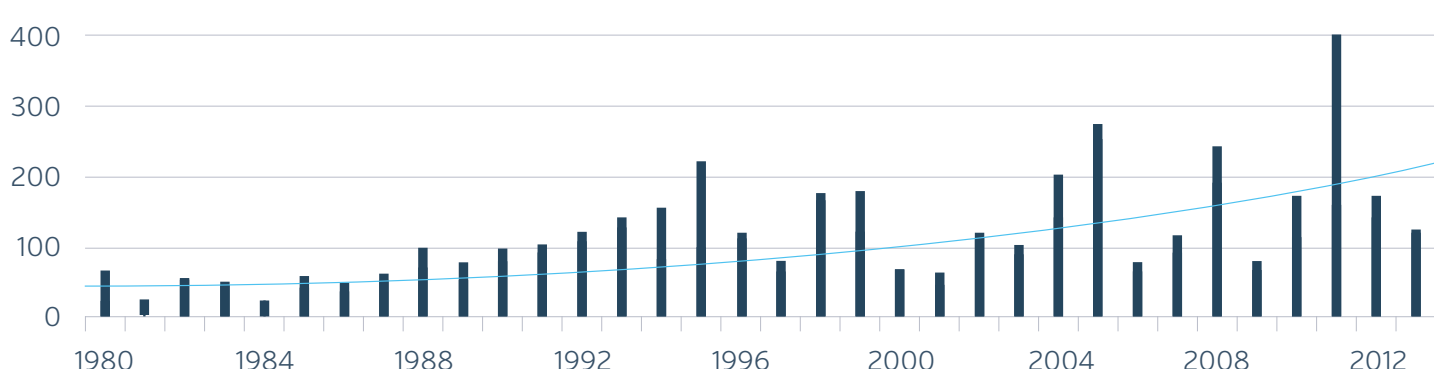


SOLVING THE PUZZLE

Innovating to Reduce Risk

CONTEXT

The number of natural disasters has nearly doubled in the last three decades, with the cost of these events rising four-fold—from around **US\$50 billion** annually in the 1980s to **US\$200 billion** per year in the last decade.



THE CHALLENGE

Managing these growing impacts will require climate and disaster risk information for decision makers that is:

robust



accurate



accessible



A recently launched report, **Solving the Puzzle: Innovating to Reduce Risk**, takes an in-depth look at gaps in these key areas, and provides decision-makers with a roadmap to help bridge them - including new collaborative efforts, targeted investments in data and modeling, and improved risk communication.

INPUT FROM THE RISK COMMUNITY

A key component of the report is its synthesis of a wide range of perspectives, with more than 100 international and local organizations from the private sector, academia, NGOs, and government making contributions. These diverse sources ensure that the report's findings represent the full spectrum of stakeholders and decision-makers that build climate and disaster resilience at the local, national, and international level.

5

Continents

6

Consultations

25

Written
contributions

100

Institutions

KEY FINDINGS



Risk Models

Although there are a variety of models available, they can be difficult to use without expertise and require hazard, exposure, and vulnerability data that are difficult to find.

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Risk Data

Risk assessments require multiple types of data, yet data can be expensive, scattered, hard to access, and difficult to obtain.



Risk Platforms

Risk platforms facilitate risk assessments by offering tools to analyze risk data and model results, but they tend to lack interoperability among the models, ease of use, and broad community acceptance.



Capacity Building

For risk assessments to be effective, the results need to be trusted, understood, communicated, and acted upon by decision makers. Further understanding of the end user's needs is required.

THE CHALLENGE FUND

Four pilot projects have been launched under the Second Round of the GFDRR/DFID **Challenge Fund**—a unique financing initiative aimed at bringing innovation and technology to bear on problems within risk identification. These pilot projects highlight the importance of **openly available hazard, vulnerability, and exposure datasets**, as well as improved research into understanding the needs of the practitioners and decision-makers in developing countries.



Exposure



Vulnerability



Hazard



User needs

