Southwest Indian Ocean Risk Assessment and Financing Initiative (SWIO RAFI)











THE WORLD BANK

ACP-EU Natural Disaster Risk Reduction Program An initiative of the African, Caribbean and Pacific Group, funded by the European Union and managed by GFDRR

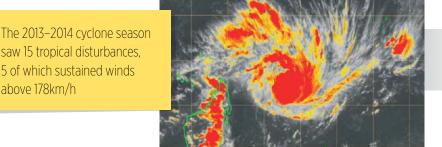
≝PURPOSE

The Southwest Indian Ocean Island States are more vulnerable than ever to disaster losses from catastrophes such as cyclones, floods, earthquakes and tsunamis. These threats are exacerbated by the effects of climate change, a growing population and increased economic exposure.

The question remains on whether individual or joint solutions can be found to increase the financial resilience of the Island States against natural hazards.

The Southwest Indian Ocean Risk Assessment and Financing Initiative (SWIO RAFI) seeks to answer this question, providing a solid basis for the future implementation of disaster risk financing by improving the understanding of disaster risks and risk financing solutions of participating island nations.

This initiative supports the Indian Ocean Commission (IOC) ISLANDS project, which is also supported by the European Union (EU), the United Nations Office for Disaster Reduction (UNISDR) and the Agence Française de Développment (AFD). The initiative will be implemented with financial support from the EU in the framework of the ACP-EU Natural Disaster Risk Reduction Program, managed by the Global Facility for Disaster Reduction and Recovery (GFDRR).



"Implementing the SWIO RAFI will not only assist in preventing devastating disasters within these Island States, but will also help to predict future risks. As an ongoing initiative, the goal is to consistently improve the lives of those residing in areas prone to such hazards using a combination of research and a myriad of assessment tools."

-Doekle Wielinga, Sr. Disaster Risk Management Specialist, the World Bank



≝PROJECT

This project is the first phase whereby existing and new hazard and exposure data will be collected, collated and shared and catastrophic risk profiles developed for **The Comoros, Madagascar, Mauritius, Seychelles and Zanzibar.**

Based on the extensive research that will be conducted, regional and national catastrophe risk financing options will be assessed, a regional open data platform will be established and preliminary national disaster risk financing strategies developed.

Institutional capacity building will form an essential component of all of these efforts.

During an envisaged second phase, the preliminary catastrophe risk financing strategies selected by the Island States will be further developed and made operational.



≝RELEVANCE

SWIO RAFI complements the ongoing work of the IOC to reduce vulnerability to natural disasters in accordance with the Mauritius Strategy for the Further Implementation of the Program of Action for the Sustainable Development of Small Island Developing States (SIDS) 2005–2015.

More broadly, this initiative offers support to long-term, core economic and social development objectives. For example, disaster risk financing and insurance strategies can:

- Increase a country's response capacity post disaster
- Increase stability in the fiscal budget (including protection of development investment budgets)
- Prevent reversion to expensive/sub-optimal financing sources that may be sought in a post-disaster situation to avert a liquidity crunch

₩ACTIVITIES

- Data collection and management of disaster risk information
- Catastrophe risk modeling and fiscal risk profiling
- Quantitative and qualitative evaluation of options for financing disaster losses
- Development of evidence-based national disaster risk financing strategies
- Policy dialogue and monitoring and evaluation

Linkages to Ongoing and Future Activities and Sequencing of the Project Activities

Layered Strategy for Financing Disaster Loses

Erequency of Event

High Risk Layer (e.g., major earthquake, major tropical cyclone)

Medium Risk Layer (e.g., floods, small earthquake)

Low Risk Layer (e.g., localized floods, landslides) Disaster Risk Insurance (e.g., parametric insurance, indemnity insurance) MAJOR

Severity of Impact

MINOR

Contingent credit

Contingency budget, reserves, annual budget allocation

Source: World Bank Disaster Risk Financing and Insurance Program

EXPECTED OUTCOMES

- Improved ability to measure, maintain and apply disaster risk data for enhanced resilience to disasters
- Establishment of robust catastrophe risk profiling of Island States
- Establishment of preliminary national disaster risk financing strategies based on quantitative and qualitative assessment of the following: probable losses, financing gaps and costs and benefits of available financing options

UNISDR disaster risk data and loss profiling exercise for Indian Ocean Islands Country-specific catastrophe risk models for tropical cyclone (wind and storm surge), flood, and earthquake and tsunami developed under this initiative. Geospatial risk information platform will be developed in parallel.

Review of existing budgetary arrangements for financing disaster losses at the fiscal level, including examination of types of historical expenditure undertaken under this initiative

Geospatial risk information platform

Fiscal risk profiles and identification of funding gaps

Preliminary national disaster risk financing strategies and regional options for disasater risk financing

Future Project: Implementation of disaster risk financing strategies and re-purposing of hazard, exposure and risk information produced under the first phase for other DRM applications such as preparedness and prioritizing of risk reduction investments

Sequencing

PARTNERS

- World Bank SIDS (Small Island Developing States)
- This initiative is in partnership with the Ministries of Finance, National Disaster Risk Management Offices and Insurance sector representatives from The Comoros, Madagascar, Mauritius, Seychelles and Zanzibar.
- This initiative is carried out in coordination with:
 - Indian Ocean Commission (IOC) ISLANDS Project
 - United Nations Office for Disaster Risk Reduction (UNISDR)
 - French Development Agency (AFD)







"The sole responsibility for this publication lies with the author. The European Union is not responsible for any use that may be made of the information contained therein."

CONTACTS

In Washington, DC:

Doekle Wielinga • Sr. Disaster Risk Management Specialist dwielinga@worldbank.org

Alanna Simpson • Sr. Disaster Risk Assessment Specialist asimpson1@worldbank.org

In London:

Emily White • Disaster Risk Financing Specialist ewhite3@worldbank.org

In Antananarivo:

Noro Aina Andriamihaja • Economist

nandriamihaja@worldbank.org

ACP-EU Natural Disaster Risk Reduction Program