

IDB Disaster Risk Financing Instruments

Disaster Risk Financing Conference February 21, 2024

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HOLISTIC APPROACH TO DISASTER RISK AND **CLIMATE RESILIENCE**

- IDB risk layering approach to support Caribbean cour build financial resilience to climate and disaster shocks.
- The approach involves a mix of financial instruments tailored to each country's risk profile and financial needs
 - Budgetary resources and reserve funds for prevention mitigation, and recurrent low-impact events.
 - Contingent debt instruments and risk transfer instrun for events with lower probability but high-impact.
- This approach aims to strike a **balance between risk** reduction and risk financing through different instrum

RISK LAYERING APPROACH

ntries		
	Extreme low probability Very high impact	RISK TRANSFER INSTRUMEN
S. *	Low probability	
on,	Very high impact	RISK RETENTION INSTRUMEN
nents	Medium to high probability Low impact	RESERVE FUNDS
nents.	Pre-disaster	PREPAREDNESS & READNIN
		INVESTMENT IN RESILIENCE RISK REDUCTION







IDB INNOVATIVE CLIMATE AND DISASTER RISK FINANCE INSTRUMENTS



RISK RETENTION

Contingent Credit Facility (CCF) **Climate Resilient Debt Clause**





RISK TRANSFER

Promote risk transfer to the capital and insurance markets.

RISK REDUCTION & INVESTMENT IN RESILIENCE

> **Investment Loans Technical Assistance**



CONTINGENT CREDIT FACILITY

OBJECTIVE

Provide countries with **significant**, **liquid resources** following a natural disaster or a public health event of severe to catastrophic proportions to help them provide humanitarian relief, restore basic services to the population, and other response measures.



RISK COVERAGE

- Natural disaster risks Examples: hurricane, earthquake, flood, wildfire, and drought.
- Public health risks Examples: future pandemics and epidemics

EX ANTE INSTRUMENT

The CCF is an ex-ante financing instrument because contingent loans must be prepared and approved by the Bank before an eligible event occurs.

SCOPE OF FINANCING

Resources from CCF contingent loans are used exclusively to cover extraordinary public expenses incurred after an eligible event and only during the **emergency phase** (6-9 months).





MAIN FEATURES OF CCF CONTINGENT LOANS

Parametric coverage

Parametric coverages that allows fast eligibility verification of events.

Cost-Effectiveness

Cost-effective risk retention instrument to finance emergency response.

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Replenishment of Resources

Option to request replenishments of disbursed resources for up to its original approved total coverage.

Disaster Risk Management

Comprehensive Natural Disaster Risk Management Program (CDRMP)



Rapid Disbursement

Usually within 15-30 days after an eligibility verification request.

Extended Coverage Period

Coverage drawdown period is 5 years, renewable for another 5 years.

Ex-ante financial approach

Promote ex ante financial management of risks and contingent fiscal liabilities.



DESIGN OF PARAMETRIC COVERAGES



Earthquakes





Hurricanes

Floods



Volcanic **Eruptions**



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Wildfires
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Food Crisis









HOW DO CCF PARAMETRIC COVERAGES WORK?





HOW DO CCF PARAMETRIC COVERAGES WORK?





National Oceanic and Atmospheric Administration (NOAA) through the National Hurricane Center publishes information on the track, intensity and wind swath of tropical cyclones.



LandScan provides global population distribution data at approximately 1 km (30" X 30") spatial resolution.



world.



NASA publishes satellite data on precipitation levels through a tool called Giovanni.

The Copernicus Sentinel-2 mission comprises a constellation of two polar-orbiting satellites that monitor Earth's surface changes.

USGS controls the National Earthquake Information Center, which is responsible for detecting the location and magnitude of earthquakes around the



NASA's Fire Information for Resource Management System (FIRMS) distributes Near Real-Time (NRT) active fire data within 3 hours of satellite observation.





CATASTROPHIC RISK COVERAGE IN THE LAC **REGION BY CCF CONTINGENT LOANS**



KEY MILESTONES

3.96 billion

Ex ante financial coverage to improve resilience



EARTHQUAKES







EPIDEMIC / PANDEMIC OUTBREAKS

17

Member borrowing countries with active coverage

3.26 billion

Of coverage for small and vulnerable member countries (IDB C & D countries)

RISK \mathbf{O} 0 \mathbf{z} G



FLOODS

DROUGHTS





CRISIS RESPONSE



Earthquake

\$160M Ecuador 2016



Hurricanes

\$155M

Dom. R. 2017 (\$16m) Bahamas 2019 (\$76m) Nicaragua 2020, 2022 (\$35m, \$10m) El Salvador 2022 (\$18m)



\$202M

Ecuador 2020 (\$90m) Dom. R. 2020 (\$90m) Guyana 2020 (\$22m)

Manabí Earthquake in Ecuador 2016

Hurricanes Eta & lota in Nicaragua 2020

COVID-19 2020







The timeliness of response is crucial

THE BAHAMAS Hurricane Dorian 2019 (US\$76M) *Disbursement 9 days after the event*





NICARAGUA

Hurricanes Eta & lota 2020 (US\$35M) *Disbursement 5 days after the country's request*

Hurricane Julia 2022 (US\$10M) Disbursement 4 days after the country's request





BAHAMAS **HURRICANE DORIAN 2019**

CAT5 Hurricane US \$76 million **22** Public Entities



Humanitarian response:

- Search and rescue
- Medical assistance
- Food and water distribution
- Shelters and housing
- Emergency allowances



Debris removal and environmental cleanup



Rehabilitation of:

- Electricity services
- Water and sewage infrastructure
- Educational centers and other public facilities







NICARAGUA HURRICANES ETA & IOTA 2020, JULIA 2022

US \$45 million

Rehabilitation of electrical networks ENATREL

Eta & lota 270 km of electrical distribution networks Julia 232 km of electrical distribution networks



Rehabilitation of road Infrastructure – MTI

Eta & lota

- 17 bridges
- 250K inhabitants of Caribe Norte Coast

Humanitarian Assistance - WFP



Eta & lota 402K beneficiaries Julia 238K beneficiaries











IDB CLIMATE RESILIENT DEBT CLAUSE - CRDC

- The IDB was the first MDB to offer the Climate Resilient Debt Clause (CRDC). Option to defer principal repayments of eligible IDB loans for 2 years following an eligible natural disaster and repay those amounts in future amortization installments.
- IDB's CRDC is designed to support debt sustainability efforts. It provides vital financial relief in a time of distress as the deferred payments allow the country to cover public expenses at its discretion.
- Scalability: Countries can activate CRDC in several IDB loans to achieve their desired level of coverage.
- **Innovation:** IDB's climate-resilient debt clause uses the same state-of-the-art parametric coverage that was designed for CCF.

Original Amortization Schedule



Remaining Amortization Schedule after CRDC is exercised





CLIMATE RESILIENT DEBT CLAUSE PORFOLIO



KEY MILESTONES

Barbados

From 2021 all eligible loans have been activated the PPO in every loan contract signature. Currently, the PPO has been activated on loans for an approved total of USD 474 million.

The Bahamas

From the 4th. quarter of 2022 Bahamas has activated PPO clauses on all eligible loans in its portfolio with the Bank, and every time a loan is signed, Bahamas requests activation of the PPO. Currently, the PPO has been activated on loans for an approved total of USD 379 million.

Honduras

During the 2nd. quarter of 2023, Honduras activated the PPO for the first time in a loan of USD 32.5 million. Currently, the PPO has been activated on loans for an approved total of USD 231 million.

Ecuador

During the 4th. quarter of 2023, Ecuador activated the PPO for the first time in a loan of USD 106 million.

EL SALVADOR

During the 4th. quarter of 2023, El Salvador activated the PPO for the firsts two loans for USD 184 million.

Hurricane, excess rainfall



Final Remarks

It is key to advance DRFI strategies that effectively promote risk financing instruments with solutions that encourage investment in resilience and risk reduction.



To strengthen disaster resilience in the region, it is imperative to further improve and broaden our **Disaster Risk Financing and Insurance (DRFI) instruments.**



It is crucial to continue building institutional capacity in our countries to enhance their ability to deploy the liquidity provided through financial instruments promptly, facilitating timely responses to the post-disaster recovery process.





Risk Finance and Insurance Group CMF - Connectivity, Markets and Finance Division



