# **CCRIF**<u>SPC</u>

The Caribbean Catastrophe Risk Insurance Facility





The role of CCRIF SPC May 9, 2019

#### The Genesis of CCRIF

Prompted by Hurricane Ivan in 2004 and request for assistance by Caribbean governments made to the World Bank

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The world's first multi-country risk pool providing parametric insurance – formed in 2007

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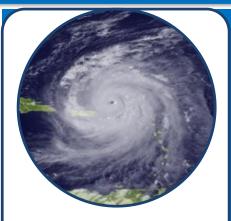
Originally designed to limit the financial impact of catastrophic hurricanes and earthquakes

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Provides shortterm funding to support relief in the immediate aftermath of a natural disaster

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#### What is CCRIF?

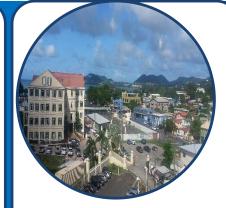


CCRIF is the world's first multi-country multi-peril risk pool based on parametric insurance and provides parametric catastrophe insurance for Caribbean and Central American governments.



CCRIF operates as a not-for-profit organization and currently provides its products and services to 19 Caribbean governments and 2 Central American governments. New entrants in 2018 were the British Virgin Islands, Montserrat, Sint Maarten and in 2019 Panama joined.





CCRIF represents a cost-effective way to pre-finance shortterm liquidity to begin recovery efforts for an individual government after a catastrophic event, thereby filling the gap between immediate response aid and long-term redevelopment.

#### **CCRIF Members**

#### **19 Caribbean members:**

Anguilla Antigua & Barbuda **Bahamas Barbados** Belize Bermuda **British Virgin Islands** Cayman Islands Dominica Grenada Haiti Jamaica **Montserrat** St. Kitts & Nevis Saint Lucia St. Vincent & the Grenadines St. Maarten Trinidad & Tobago Turks & Caicos

#### 2 Central American members:

Nicaragua Panama





#### **Our Core Values**

At CCRIF we are committed to:

- Filling a gap in available insurance offerings for natural catastrophes
- Ensuring speedy payouts (before 14 days)
- Charging the lowest possible premiums consistent with longterm sustainability
- Being transparent and accountable
- Being innovative and providing new products to meet the needs of our members
- Facilitating capacity building in disaster risk management and exante financing

#### **CCRIF Products**

#### CCRIF Insurance Products

#### ... coming soon



Tropical Cyclone (since 2007)

Earthquake (since 2007)

Excess Rainfall (since 2013)

- ✓ Drought
- ✓ Run-Off/Flood
- ✓ Fisheries and Aquaculture Sectors
- ✓ Agriculture
- Public Utilities

#### **How CCRIF Policies Work**

Parametric insurance disburses	Policy triggered on the basis of exceeding a pre- established trigger event loss				
funds based on the occurrence of a pre- defined level of hazard and impact	Estimated based on wind speed and storm surge (tropical cyclones) or ground shaking (earthquakes) or volume of rainfall (excess rainfall)				
	Hazard levels applied to pre-defined government exposure to produce a loss estimate				
	Payout amounts increase with the level of modelled loss, up to a pre-defined coverage limit				

CCRIF makes payouts within 14 days after an event.

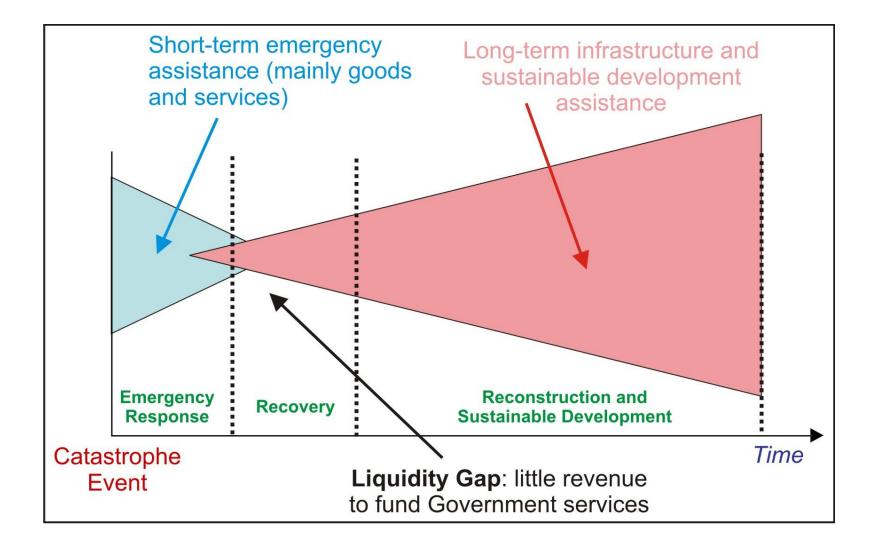
## A Note on Insurance Penetration in the Caribbean and Central America

In developed countries, insurance and capital markets are widely used to hedge the immediate adverse impacts of natural disasters. According to MunichRe, more than 40% of the direct losses from natural disasters are insured in developed countries.

Less than 10% of losses are covered by insurance in middle-income countries and less than 5% are covered in low-income countries.

Climate risk insurance for individuals is mostly absent in the region, except for very few agricultural insurance schemes.

## Sovereign Liquidity Gap





## **Linking Fiscal Policies with DRM**

- Natural disasters and financial crises are typically exogenous events that represent covariate shocks across a country and households
- Economic damages from natural hazards can jeopardize the health of national economies at a level comparable to or greater than that of financial crises
- Natural disasters also destroy human and physical capital stocks of countries something that financial crises do not

#### **Disaster Risk Management Strategies**

Disaster risk management strategies include risk reduction by increasing investment in mitigation and prevention – commonly referred to as disaster preparedness – but also include a series of alternative instruments for loss financing – commonly referred to as risk financing instruments

#### **Risk Financing Instruments**

#### **Ex-Ante**

Ex-ante risk financing instruments require proactive advance planning and really involves investing in national catastrophe risk management prior to a natural disaster occurring.

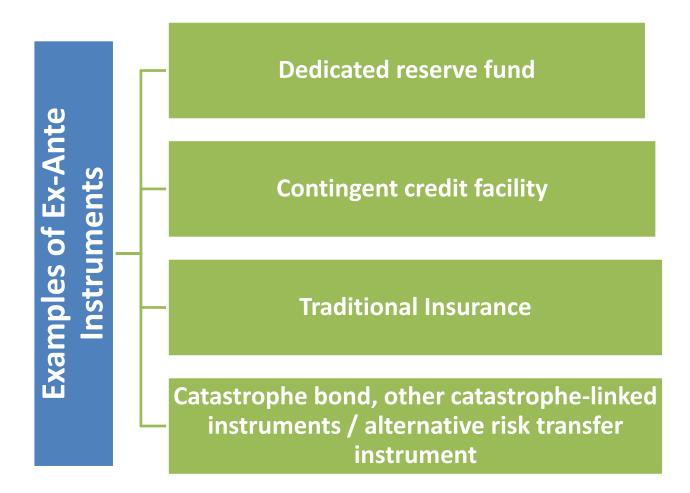
#### **Ex-Post**

Ex-post instruments are sources that do not require advance planning. These instruments include budget reallocation, domestic credit, external credit, tax increase, and donor assistance.

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Ex-post strategies provide emergency response, rescue and emergency relief services in the aftermath of natural disasters and really is an example of a pure public good.

## Examples of Ex-Ante Financing Instruments



#### Why Caribbean and Central American Governments are Pursuing Catastrophe Risk Insurance?

Governments are typically responsible for large portfolios of public infrastructure assets subject to risk

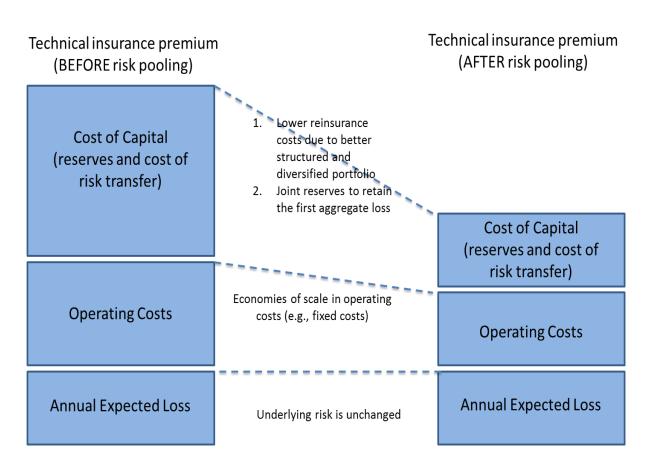
#### 3 Clear Reasons

To guarantee sufficient capital for emergency relief and assistance to affected households, businesses and communities. If governments lack the necessary infusion of post-disaster capital to rebuild critical infrastructure and sectors (e.g, tourism agriculture etc.), restore homes and provide humanitarian assistance, indirect costs can greatly surpass the direct losses of a disaster

Developing countries have a higher propensity for post-disaster resource deficits. Governments of developing countries typically must divert from their budgets or from already disbursed development loans to finance post-disaster expenses, also relying on new loans and donations from the international community

### **Benefits of CCRIF Model**

- Pooling of risk across a wide geographical area provides:
  - excellent diversification
  - pooling into a single reinsurance transaction improves access to and pricing from global markets
  - parametric policies allow total objectivity/ transparency and rapid payouts (14 days after an event)
- Pricing based on technical risk avoids cross- subsidization

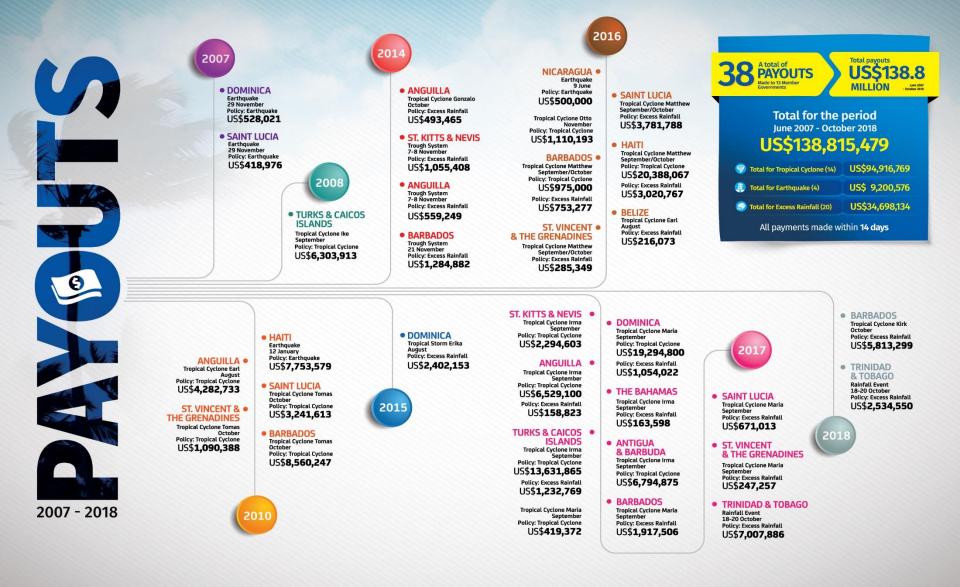


Parametric insurance avoids moral hazard, so can work in full synergy with risk reduction and other tools as part of a holistic catastrophe risk management programme.

#### Factors Determining Coverage Levels

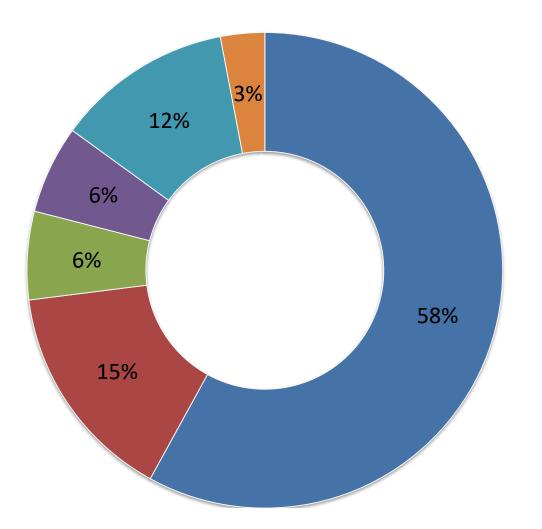
#### Decisions regarding coverage levels are affected by:

- Level of resources available within the national budget
- Uncertainty about appropriate or best level of coverage
- Level of discounts or special incentives provided by CCRIF
- Need for enhanced understanding among governments of different risk financing instruments and the best way of applying each to maximize benefits to countries (e.g. parametric insurance such as CCRIF and CAT DDOs must be seen as complimentary instruments)



Since 2007, CCRIF has made 38 payouts totaling US\$138.8 million to 13 member governments.

#### **Use of CCRIF Payouts**



- Immediate post event activities
- Long-term infrastructure work
- Risk mitigation activites
- Support to economic industries (e.g. agri)
- Unallocated contribution to budget

Other

#### Some Challenges....

High deductible means that it only covers major catastrophe events in which national economies are severely impacted

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Basis risk means that events can occur which produce losses but no payout (and the opposite is possible)

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Concept of parametric is not fully understood, so clients expect their 'insurance policy' to cover everything

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Scale of the risk currently retained is daunting when converted to annual premium, even at good rate

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## Lessons Learned

Keeping premiums low - Risk pooling; providing discounts and bundling products when possible bearing in mind fiscal constraints of member		Being flexible and responsive to members' needs; developing new products; providing preferable policy options (e.g. lower attachment points) due to expectations of payouts		Consultations aid project development and underpin continuous improvement		
Donor support is invaluable - Frequent interaction; Sourcing funding for new products;Premium Support for most disadvantaged countries	Success depends heavily on the relevant knowledge and experience of decision makers			Stakeholders' interests must be represented		Stakeholder engagement is a continuing objective
Minimize non-essential bureaucracy to lower overhead costs and product price	Third-party monitoring and evaluation can help to broaden or streamline organizational focus as necessary			Know your limitations		Building capacity through training, technical assistance programmes to enhance understanding of CCRIF, DRM and risk transfer in general

## **Thank You**

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