

A RANGE OF APPROACHES TO ADDRESS LOSS AND DAMAGE AT THE MACRO LEVEL:

EXPERIENCES AND LESSONS LEARNED FROM THE CARIBBEAN CATASTROPHE RISK INSURANCE FACILITY (CCRIF)

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The Caribbean context



 Caribbean countries are highly vulnerable to natural disasters, which have caused them average losses amounting to 2% of GDP since 1970.

Vulnerability

 Only 3% of potential loss is currently insured in developing countries vs 45% in developed countries.

Low Coverage

 Immediate access to liquidity is critical for governments and individuals post disaster.

Liquidity

 Smaller nations with high debt burdens can no longer afford to self-finance disaster risk.

Debt Burden



Losses from a selection of Major Disasters in the Last 40 Years						
YEAR	NATURAL DISASTER	COUNTRY	REGION	ESTIMATED DIRECT LOSS (US\$ MILLION)	DIRECT LOSS (% OF GDP)	
LARGE ECONOMIES						
1992	Hurricane Andrew	USA	North America	26,5000	0.4	
1995	Earthquake	Japan	East Asia	100,000	3.2	
1998	Flood	China	East Asia	30,000	0.7	
2005	Hurricane Katrina	USA	North America	125,000	1.1	
SMALL ECONOMIES						
1985	Cyclones Eric & Nigel	Vanuatu	Oceania	173	143	
1990	Cyclone Ofa	Samoa	Oceania	200	178	
1991	Cyclones Val & Wasa	Samoa	Oceania	278	248	
2004	Hurricane Ivan	Grenada	Caribbean	889	203	
2009	Tsunami	Samoa	Oceania	120	22	
2010	Earthquake	Haiti	Caribbean	8,000	114	

[&]quot;Financial Protection of the State against Natural Disasters", Policy Research Working Paper 5429; Francis Ghesquiere & Olivier Mahul; the World Bank; September 2010.



What is CCRIF?

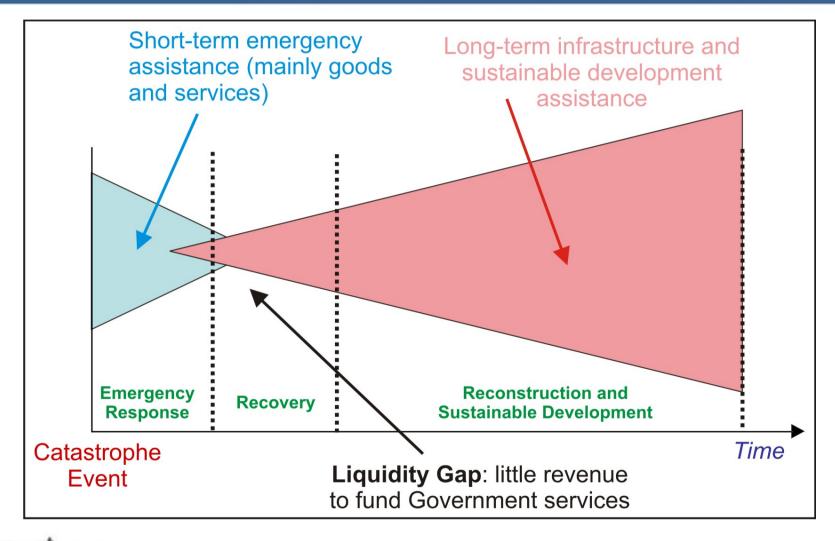


- Launched in 2007 as a public-private partnership, World Bank's response to Caribbean Governments
- World's first multi-national risk pool and the first to cover sovereign risk via parametric insurance
- Designed to offset the financial impact of hurricanes and earthquakes by providing quick liquidity
- Capitalised by donors (Canada, EU, World Bank, UK, France, Caribbean Development Bank, Ireland and Bermuda) and the 16 member governments (via initial membership fee)



Sovereign liquidity gap







The Financial Protection of the State



Source of Financing Post-disaster

Instrument s	Availability of funds	
Reserves	Immediate	
Budget Reallocations	-	
Contingent Lines of credit	Immediate	
Emergency Loans	3-6 months	
Donor contributions	3-6 months	
Traditional Insurance	3-6 months	
Parametric Insurance	Immediate	
Catastrophe Bonds	Immediate	



How do we combine these instruments to protect the fiscal balance of the state and improve its capacity to respond in case of a natural disaster



How does it work?



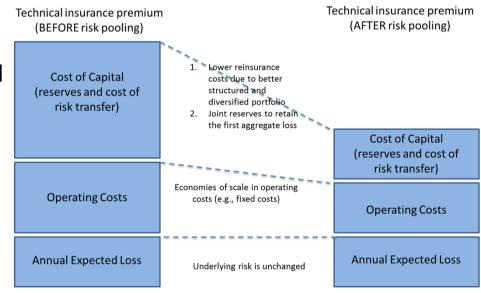
- Operates as not-for-profit
- Each government pays a premium related to the quantum of risk it transfers to the Facility
- Payouts based on the coverage conditions and the parameters of the event
- CCRIF enhances claims-paying capacity through accessing traditional and alternative risk transfer markets
- Parametric nature good fit for capital markets
- Operational/risk manager is a Caribbean-based company



Benefits



- 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-subsidisation
- 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







Original estimates of CCRIF savings and current estimated achieved savings



Coverage comparison	Pre-implementation estimation range	Current (actual) estimation range				
Hurricane						
CCRIF savings vs Market	48-56%	54-59%				
CCRIF savings vs Self-retention	65-71%	57-75%				
Earthquake						
CCRIF savings vs Market	42-47%	54-62%				
CCRIF savings vs Self-retention	49-53%	58-85%				

Source: Pre-implementation estimates from World Bank (2007). Achieved estimates by World Bank Disaster Risk Financing and Insurance Program, with data from Caribbean Risk Managers Ltd (2012).



Structure of CCRIF



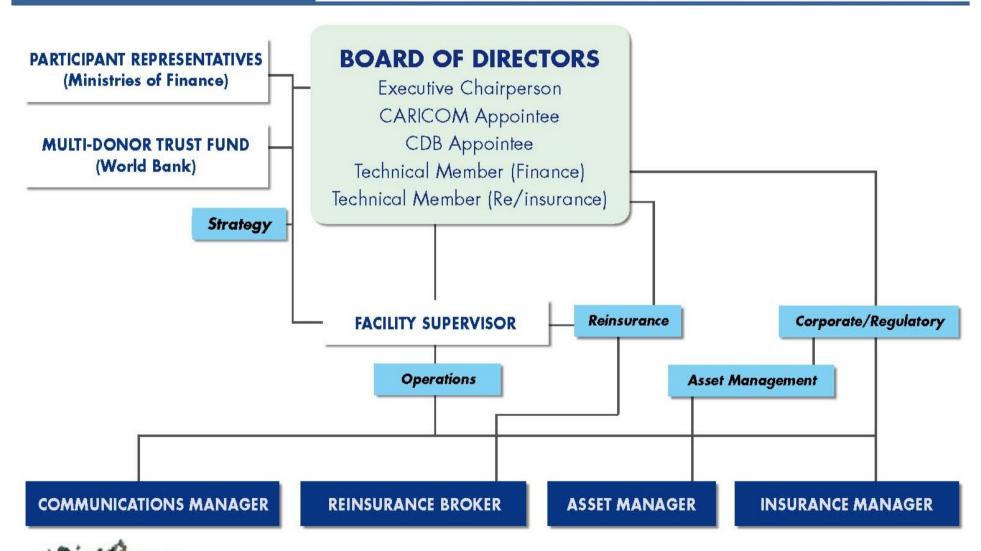
- CCRIF is a Cayman-domiciled insurance company owned by a special purpose trust
- It is governed by a trust deed, the board must ensure that the CCRIF operates within the trust's parameters
- The board has representation from participants (via CARICOM nominee) and donors (via CDB nominee), two technical experts (also nominated by CARICOM and CDB) and an Executive Chairperson
- CCRIF's operations are laid out in an Operations Manual and are executed by a number of service-provider companies (Facility Supervisor, Insurance Manager, Reinsurance Broker, Asset Manager, Communications/PR Advisor)





Organigram

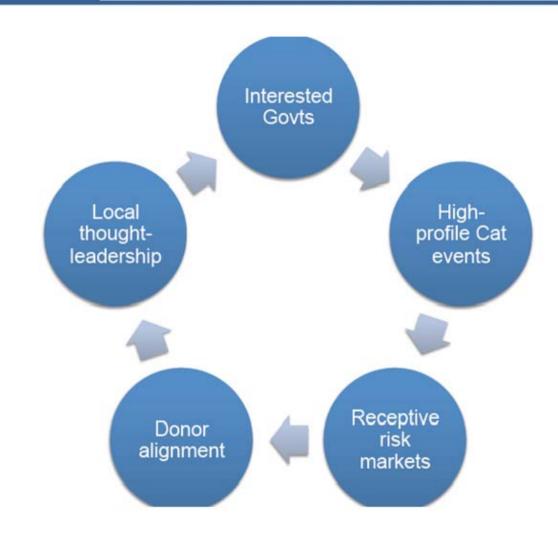






Getting Started - A piece of cake?







In Practice...



- Required constant contact with Government officials throughout process
- Many iterations of risk modelling
- Balancing donor commitments with reinsurance capacity (finding the sweet spot)
- Legal, regulatory constraints
- Breaking down the door marked "never been done before"



Lessons Learned



- Consultations with a wide range of experts and stakeholders are important in developing and successfully launching an innovative development instrument.
- Donor support can be essential for an innovative and untested development instrument.
- The private sector expertise and hands-on knowledge of relevant markets is vital to the success of a project that seeks to respond to a market failure. Local thought/leadership
- When public funds e.g., capital contributions from donors and beneficiary governments, both ultimately provided by taxpayer – support an independently and commercially managed entity, it is important that those managing the entity have experience with stewardship of public resources.
- On-going communications with clients and other stakeholders are essential in piloting successfully an innovative development solution.
- A lean organisational structure can be very effective.
- In a highly innovative project, it is important to give the implementing agency scope for creativity and flexibility, while still ensuring compliance with operational/regulatory policies.



Opportunities



Using CCRIF
resources to build
regional institutional
capacity through
partnerships and
technical assistance

Fostered confidence



Proven business case



Killer App (indexing)

Using CCRIF data and know-how to propagate to the region/public/private sectors (Utilities, microfinance, agriculture)



The end



Thank you