

Disaster Risk Financing & Insurance Program

WORLD BANK GROUP



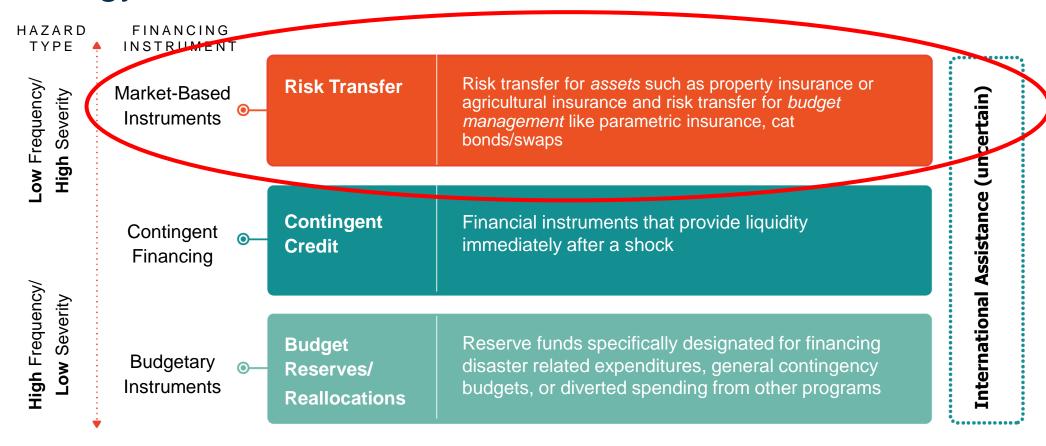






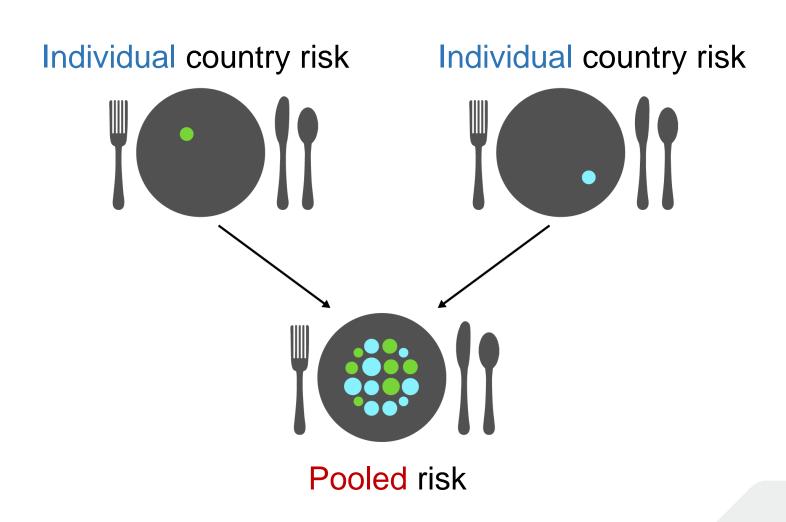


Parametric insurance may be one component of a DRF strategy



	Traditional insurance	Parametric insurance	
Trigger for payout	Actual loss incurred	Natural hazard event exceeding a defined threshold (e.g windspeed or earthquake magnitude)	
Risk of payout not covering losses	No risk as payout is based on loss	Risk that the index used is not well- correlated with the actual losses sustained (basis risk)	
Speed of payout	Can be very slow	Usually within 2 weeks	
Use of payout	Intended to cover only the loss sustained	No restrictions on use	
Loss adjustment and claims process	Loss adjustment process can be lengthy and complicated	No loss adjustment process	
Pricing flexibility	Few policy options	Very flexible structure – premium can be determined by policyholder	

Sovereign catastrophe risk pools

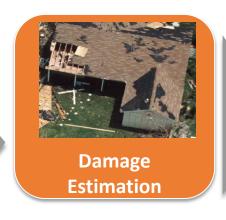


Risk assessment – a general framework





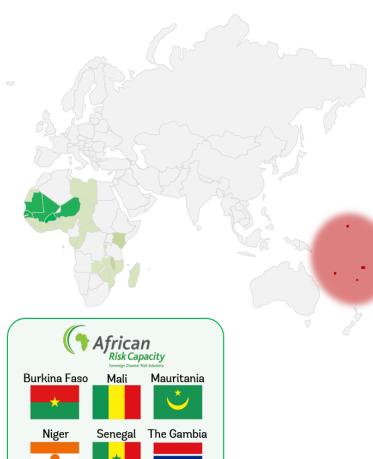






Global examples





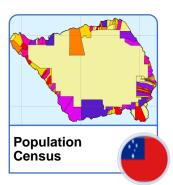


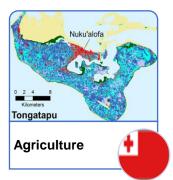


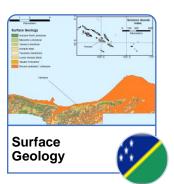
Example: The Pacific Risk Information System (PacRIS)

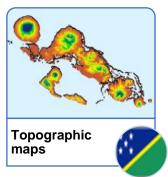


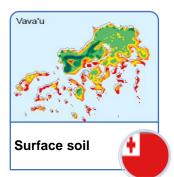


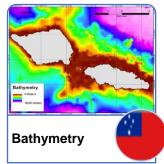




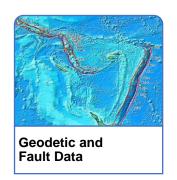














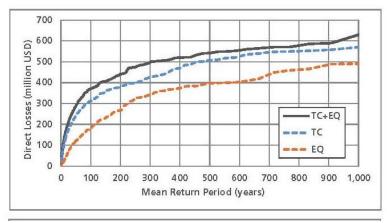






A key output: country risk profiles

Mean Return Period (years)	AAL	50	100	250
Risk	Profile: Tro	pical Cydon	e	
Direct Losses				
(Million USD)	36.8	241.0	312.0	399.0
(% GDP)	5.0%	33.1%	42.8%	54.7%
Emergency Losses			ő	
(Million USD)	8.5	55.3	71.7	91.7
(% of total government expenditures)	4.7%	30,9%	40.1%	51.3%
Casualties	41	260	333	415









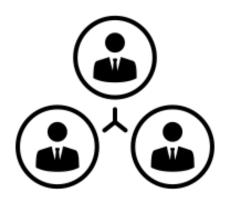
Analytics using PacRIS has supported:

- Informing disaster risk finance policy decisions
- Assessing the diversification benefit from pooling risk
- Selection of insurance coverage for countries
- Transferring risk to the international insurance market
- Calculating the initial capital requirements of the PCRAFI Insurance Company



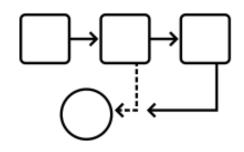


Founding principles





Political commitment is both a pre-condition for successful catastrophe risk pools and a by-product of collaboration



Operational Design

Sound operational design minimizes operating costs, and generates public goods



Financial Sustainability

Financial sustainability allows catastrophe risk pools to provide access to cost-effective insurance as part of a strategic approach to financial protection

Lessons learned:

- 1. Pools can only succeed with **strong political commitment** at the national and international level
- 2. The pools developed to date have relied on **strong support** from donors and international organisations for financial and technical assistance
- 3. Participation in a pool can strengthen a country's **disaster preparedness** through:
 - Fostering policy dialogue on risk management
 - Development and standardisation of contingency plans

Lessons learned:

- 4. Pools can create public goods such as:
 - Risk information systems for planning
 - Real-time tracking of disaster events
- 5. Pools can offer risk diversification between countries, resulting in **significant savings** in risk transfer solutions such as insurance
- 6. Pools can offer financial products to countries that would otherwise not be available, helping countries develop comprehensive disaster risk financing strategies



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