

## Agenda



- I. Catastrophe Bond as Efficient Disaster **Risk Insurance Instrument**
- II. The MultiCat Program and the MultiCat Mexico 2009

#### **Executive Summary**



- Public finances can be significantly affected by natural disasters

   Unpredictability of the event

   Need for short-term emergency funds to help affected population in the aftermath of the event

   Parametric disaster insurance helps mitigate the negative impact of emergency spending on a country's budget and provides rapidly available funds for quick assistance.

  Through a Cat Bond transaction, the cat risk is transferred to the market on efficient terms

  In order to facilitate member country's access to parametric insurance, the World Bank Treasury created the MultiCat Program

   Shelf documentation available to every client

  Covering a multiple number of perils.

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  \*\*Shelf data Mexica 2009, Mexico inaugurated the Program

   USS-290mm, 4-tranche bond covering 3 different perils (Earthquake, Pacific Hurricane, Atlantic Hurricane) in 6 different zones:

   Transaction over 2.5x oversubscribed

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   The World Bank is very pleased to incorporate the MultiCat Program to the menu of tools available to its member country government, will advise and set up the necessary framework to execute the transaction (legal, technical/risk modeling, financial institutions, etc.)

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# I.1 The Case for Natural Disaster Insurance



- Natural disasters have increased in frequency and cost (growing urban density and climate change)
   Emerging countries are particularly exposed with only 3% of potential loss insured vs 45% in developed countries
   immediate reaction post-disaster is essential in terms of impact on growth
   international community funds are slow to

- Traditional initial relations are shown or arrive

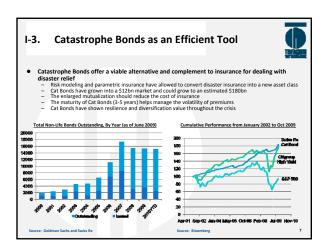
  Traditional insurance has shortcomings

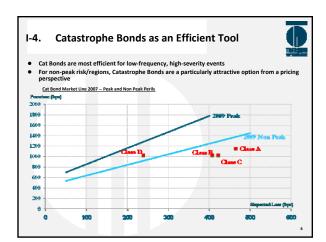
  Cat risk exceeds the capacity of local insurers. With constrained government budgets, coverage must come from global insurers of undercapacity

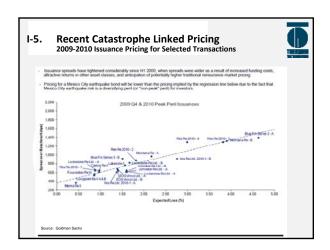
  Independent of the state of th

		(\$B)	(% Loss)	%GDP	%Budge t
Earthquake Marmara (1999)	Turkey	22.0	5%	5%	21%
Hurricane Katrina (2005)	USA	1380	49%	0.5%	1.5%
Floods (1997)	Poland	3.5	6%	3%	11%
Earthquake Gujart/Bhuj (2001)	India	0.6	2%	1%	7%
Earthquake Northridge (1992)	USA	43.0	47%	0.3%	2%
Earthquake Sichuan (2008)	China	85.0	0.4%	1.8%	15%
Winter Storm (1999)	France	6.2	100%		

**Catastrophe Bond Structure** and Cash Flows A typical (simplified) structure of a catastrophe bond looks as follows: Disaster Contingent payments







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#### II-1. The World Bank's MultiCat Program

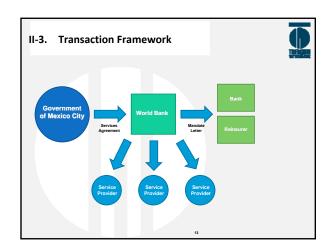


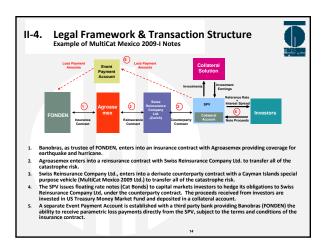
- In order to facilitate the access of sovereign entities in member countries to the cat bond market on efficient terms, the World Bank established the "MultiCat Program" in October 2009.
- The program offers parametric insurance to help ensure access of governments to immediate liquidity to finance emergency relief and reconstruction work after a natural disaster.
- The program supports a wide variety of structures, including the pooling of multiple risks (earthquakes, floods, hurricanes and other wind storms) in different regions.
- Mexico was the first country to issue notes using the MultiCat Program, with a four tranche US\$290 million transaction in October 2009.
- The World Bank Treasury is in discussion with a number of governments on using the MultiCat for their own purpose

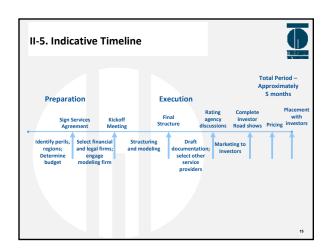
#### The World Bank's MultiCat Program (continued)

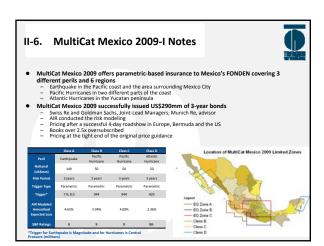


- The MultiCat Program is a shelf documentation that facilitates the issuance of notes covering multiple perils and for multiple zones
- Some of its key features are the following:
   Common documentation
   Legal and operational framework for the offerings
   "MultiCat" brand name, offering name recognition with investors
   Wide variety of structures
- The World Bank acts as arranger in all MultiCat issues and selects on a competitive basis the lead managers and other service providers









I-7. MultiCat Mex Investor Distributi	ļ	
Investor Type	Amount Invested	Share
Dedicated Funds	\$117.50 million	40%
Reinsurers	\$98.75 million	34%
Money Managers	\$43.75 million	15%
Hedge Funds	\$16.75 million	6%
Insurers	\$13.25 million	5%
17		

II-8.	MultiCat Mex Investor Distributi	xico 2009-I Notes on by Region	
	Region	Amount Invested	Share
	US	\$149.75 million	51%
	Bermuda	\$101.00 million	35%
	Europe	\$37.00 million	13%
	Japan	\$1.75 million	1%
	Canada	\$0.50 million	<1%
	18		