

PROSPERITY

Country Presentation Morocco

Solidarity Fund against Catastrophic Events





Rationale for Introducing the Fund



- To secure Insurance Companies
- To address the problem of uninsured people
- To set the compensation scale
- To secure capacities for Insurance Companies



Fund Design Specifics – Scope and Coverage



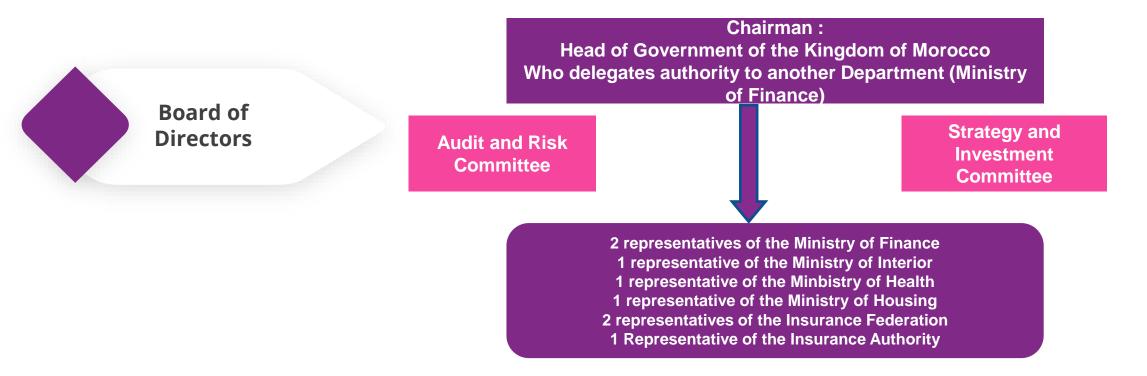
- The FSEC « Fonds de Solidarité contre les Evénements Catastrophiques » is a Public Administrative Establishment under State supervision, with financial autonomy;
- It complements private insurance by providing compensation to poor, uninsured households for bodily injury and the loss of their principal residence upon the occurrence of a catastrophic event.



Disaster is declared by a Decree of the Head of the Government

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Fund Design Specifics – Management





- The Fund's revenues comes from the proceeds of 1% parafiscal tax levied on all non-life contracts (except Workman Compensation)
- Approximately 26MUSD annualy
- A financial stability provision is funded by the technical balance of each financial year to offset technical and financial losses at the end of a given FY

FSEC Action Plan

Risk Knowledge:

- Risk knowledge and modeling:
- MNHPRA: Morocco Natural Hazards
 Probabilistic Risk Analysis: Multi-peril

 Probabilistic Model
- ICAT: Floods. Probabilistic and Deterministic Model



Risk Transfer:

- Parametric Cover for EQ (275 MUSD PGA)
- Parametric Cover FI (Expected 4th Q 2025)
- Cat Bond Issuance (Upper layer expected July 25)



Indemnity:

• Digital Compensation Plateform



Disaster Declaration:

NRT Platform, partnership with CRTS and ICEYE (in progress)

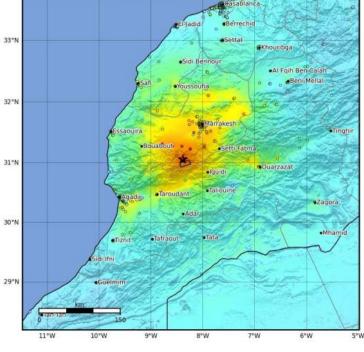
Deployment of Fund – Al Haouz

Damage Rates for Max MMI per Commune

		312
MMI start	MMI end	Loss Rates
0.00	5.00	0.000%
5.00	5.50	0.070%
5.50	6.00	0.350%
6.00	6.50	0.975%
6.50	7.00	2.750%
7.00	7.50	7.500%
7.50	8.00	12.500%
8.00	8.50	17.500%
8.50	9.00	22.500%
9.00	9.50	27.500%
9.50	10.00	32.500%
10.00	12.00	38.950%

- Damage rates are applied to each commune above 5.0 MMI.
- 2. Each commune has an assigned Max MMI based on the v11 USGS ShakeMap (right)

Macroseismic Intensity Map USGS
ShakeMap: 53 km WSW of Oukaimedene, Marrakesh-Safi, MA
Sep 08, 2023 22:11:01 UTC M6.8 N31.05 W8.39 Depth: 19.0km ID:us7000kufc



cale based	on Word	en et al	(2012)		Versio	n 11: Processed 2	023-09-1	6T04:15:11
INTENSITY	T.	11-111	IV	V	VI	VII	VIII	DX.	X 0
PGV(cm/s)	< 0.0215	0.135	1.41	4.65	9.64	20	41.4	85.8	>178
	< 0.0464			6.2	11.5	21.5	40.1	74.7	>139
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heav
SHAKING				Moderate		Very strong	5evere	Violent	Extreme

Exposures per commune

*The below table has a sample of the Losses per commune with the largest losses

Commune	Exposure (USD)	Maximum MMI	Damage Rate	Loss (USD)
Menara (AR)	997,499,070	6.57	2.750%	27,431,224
M'Zouda	84,792,146	8.23	17.500%	14,838,626
Tassoultante	188,923,591	7.24	7.500%	14,169,269
Saada	177,112,047	7.05	7.500%	13,283,404
Amizmiz (M)	55,931,477	8.36	17.500%	9,788,009
Ourika	126,624,192	7.00	7.500%	9,496,814
Asni	67,403,985	7.55	12.500%	8,425,498
Tameslohte	107,721,202	7.11	7.500%	8,079,090
Marrakech Medina (AR)	291,751,526	6.55	2.750%	8,023,167
Aghouatim	104,829,324	7.20	7.500%	7,862,199

3. The calculation of the parametric loss in the occurrence of an event

4. Exposure * Loss rate = Parametric Loss

Total Parametric Index Loss: 395,225,998

E.g. 997,499,070* 2.75% = 27,451,224

Calculation of Coverage

The sum of each commune's parametric loss is total parametric loss for an event Total Parametric Loss: 395.23m (USD)

Total Claim Payment Amount: 275m (USD)

*the cover is 275m xs 25m

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