



# Insurance Development Forum

### **The Protection Gap**

2004 that were insured. This compares to c.30% in developed countries. Dag Hammarskjöld Foundation and UNDP 2019
Financing the UN Development System: Time for Hard Choices \$162.5bn The size of the global insurance \$4tn protection gap. Emerging economies account for \$160bn (96%) Lloyd's World At Risk report, Oct 2018

Swiss Re database of natural catastrophes

The estimated figure lost to extreme

natural disaster events globally over the

The percentage of natural disaster

losses in developing countries 1980-



www.lloyds.com/worldatrisk

past 40yrs

# RISK MODELLING STEERING GROUP

#### **Members:**

AIG Re, AIR Worldwide, Allianz Re, Aon (and Aon Impact Forecasting), Aviva, AXA Group, Axis Capital, Bank of England, Centre for Disaster Protection, Centre for Greening Finance and Investment, China Re, Convex, CoreLogic, Fathom, FCDO, FSD Africa, GEM Foundation, Geneva Association, GFDRR, Guy Carpenter, Hannover Re, Howden Group, ImageCat, InsuResilience Solutions Fund, InsuResilience Global Partnership Secretariat, JBA Group, KatRisk, Lloyd's of London, MCII, MS Amlin, Munich Re, Oasis LMF, RenaissanceRe, RMS, SCOR, NASDAQ, START Network, Swiss Re, Talbot, Tata Consultancy Services, UNDP, UNDRR, WTW, Xceedance and Zurich.





## What's the problem?

### Risk analysis is critical to climate and disaster risk strategy:

- Investment in resilient infrastructure
- Contingent risk finance
- Early action, anticipatory finance

### But access to risk analytics is unequal:

- Model platforms are expensive
- Proprietary formats prevent sharing or comparing
- Uncertainties are hidden
- Local research is not sufficiently used
- Public and private sector views are separated

### A solution is required to democratise risk understanding



## IDF RISK MODELLING STRATEGY

#### 1. CAPABILITY DEVELOPMENT & CONTENT

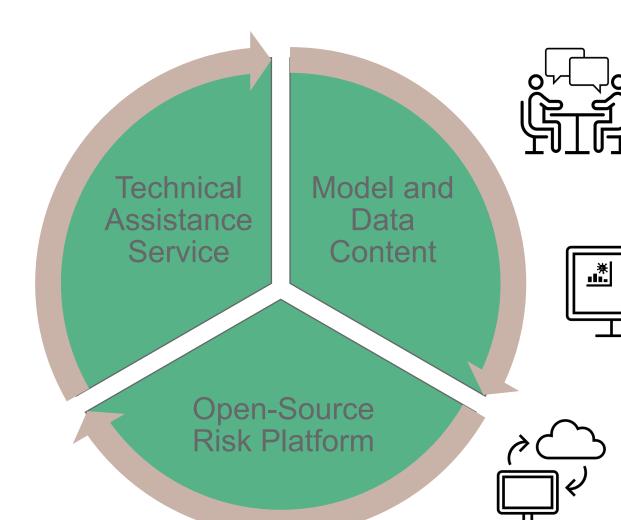
- An expert team to work with countries
- A grant fund to fill critical model and data gaps
  - = Global Risk Modelling Alliance

#### 2. OPEN RISK MODELLING INFRASTRUCTURE

- Open-source risk modelling platform and tools
- Open data standards
- Interoperability between formats
  - = IDF-Oasis technical development programme



### The GRMA's approach to democratize risk understanding



#### **Technical assistance service:**

- > Public and private sector expertise
- > Advice on model development
- > Co-defined risk projects
- > Commissioning & quality assurance

#### Models and data for public good:

- > Filling strategic model/data gaps
- > Translating existing research
- > Emphasis on local data

#### Open risk modelling platform:

- > Free to use
- > Designed for risk finance
- > Open source, open data standards
- > A community of model providers











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## **IDF-Oasis technical projects**

Completed 2021-2022	Planned for 2023
Oasis code roll, improved performance	
Oasis Risk Explorer I	
Oasis: Fragility Curves study	
IDF CatRiskTools	
Interoperability: ODTF	
OED improvements with World Bank	
Total spend <b>\$350k</b>	

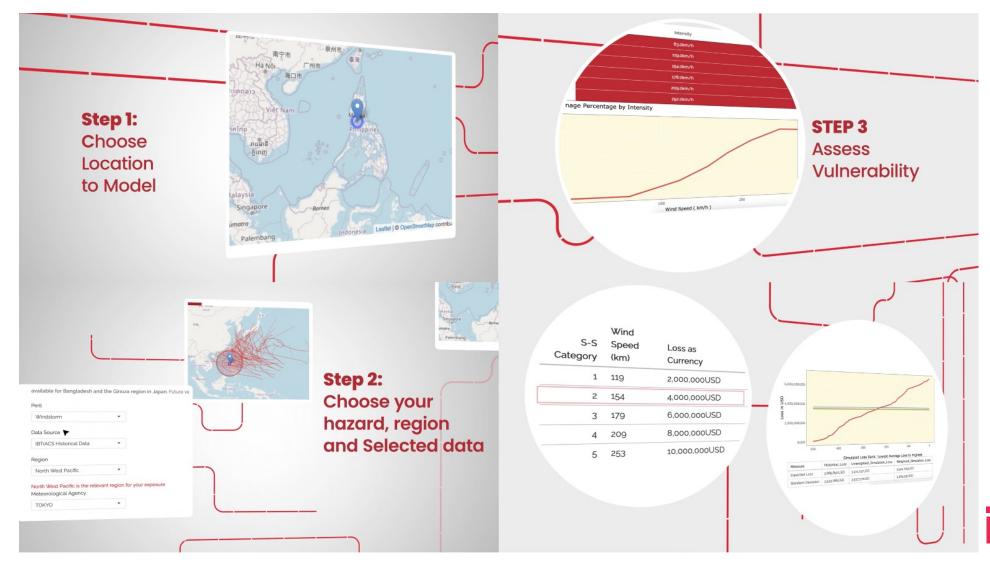


## **IDF-Oasis technical projects**

Completed 2021-2022	Planned for 2023
Oasis code roll, improved performance	Oasis dynamic event set generation
Oasis Risk Explorer I	Oasis Risk Explorer II
Oasis: Fragility Curves study	(Oasis: forecasting integration)
IDF CatRiskTools	Global Exposure Database
Interoperability: ODTF	Interoperability (ODTF continued)
OED improvements with World Bank	OED improvements with World Bank
Total spend <b>\$350k</b>	Total spend <b>\$400k</b>

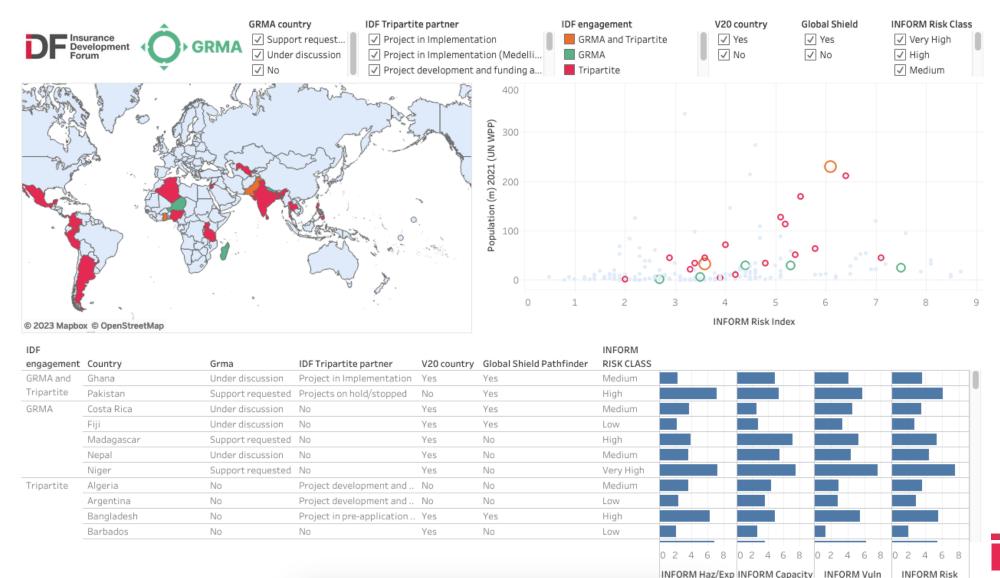


## Oasis Risk Explorer





## RMSG Tools (insdevforum.org/rmsg-tools)







# Spare



## RMSG technical project criteria

- Does the project help accelerate the spread of risk understanding for public good in emerging markets?
- Is it consistent with insurance sector methods and RMSG principles?
- Does it promote access and collaboration across sectors?
- Is it affordable? Can the need be fulfilled another way?
- Does it benefit industry?

