



LOSS MODELLING  
FRAMEWORK



## Public sector benefits of open-source catastrophe modelling

**Oasis Loss Modelling Framework** | An open-source catastrophe modelling platform, free to use by anyone. Oasis provides a community to unlock catastrophe modelling, for better risk understanding in the private *and* public sectors. Community-owned Open Data Standards support development and sharing of data for open risk modelling. The modelling framework allows the development of new models, update to existing models, visibility of assumptions and processes, and ownership of a model deployed in-country to maintain your view of risk.

**Global Risk Modelling Alliance** | The GRMA is a public-private technical assistance programme to address persistent challenges of risk understanding in the most climate-vulnerable countries. These challenges include limited access to risk analytics, a lack of knowledge exchange, and a challenge to attract investment. The GRMA will assist countries to develop shared understanding and local ownership of climate and disaster risk across ministries and sectors for strategic risk profiling, climate-resilient investment, and risk transfer.

GRMA's *open modelling infrastructure pillar* uses Oasis LMF to co-develop risk models with partner countries. The Oasis ecosystem of open data standards, tutorials, and new *Risk Explorer* tool supports learning along the journey to complex risk modelling for financing. Models and data developed on Oasis will fill analytics gaps identified by partner countries. Oasis LMF can be used operationally by partner countries to maintain and improve their understanding of their risk over time.

### Key Benefits for the public sector

Transparent analytical framework >> Develop new models, understand and test analytics

Open-source, cloud-based UI >> Establish and maintain your own risk insights

Pre-built model framework >> Use your own data in multiple models

Built-in financial module >> Analyse the benefits of risk financing and insurance

Developed by insurance risk experts >> Trusted methods of risk analytics for financing

Open Exposure Data >> Model-ready data compatible for other uses too

Applying common analytics and data standards >> Improved potential for risk transfer

Human + public infrastructure exposure data >> Capabilities beyond financial loss analysis

[GRMA.global](https://grma.global) | [oasislmf.org](https://oasislmf.org)