



SCOR Annual Conference 4 & 5 October 2018

Oasis Loss Modelling Framework:

Where are we on this open source initiative?

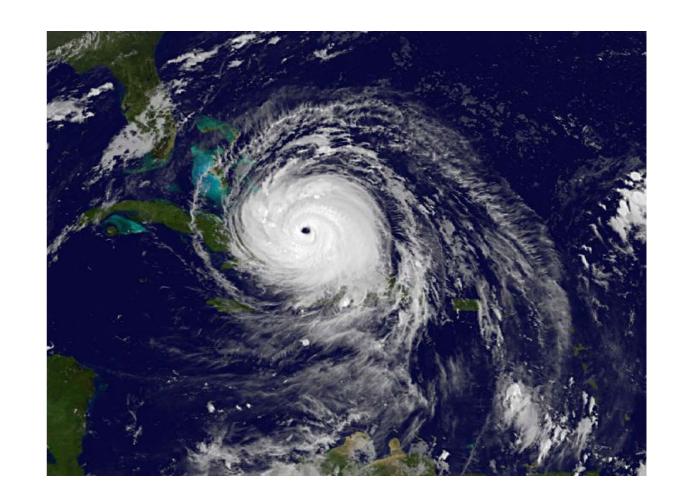
Paul NUNN, Head of Catastrophe Risk Modelling



The history of Catastrophe Modelling is *largely* a success story

Cat Models = InsurTech 1.0 ?

- Pioneered over 30 years ago bringing major advances in the quantification of risk to Hurricanes and Earthquakes
- Multi-disciplinary approach combining :
 - Science
 - Engineering
 - Insurance
 - Software programming
- Simulation of thousands of hypothetical but plausible physical events to create 'synthetic experience'
- Re/insurance industry widely adopts a probabilistic framework for catastrophe risk management ...
- ... and embraces a whole new set of jargon and acronyms
- Record \$135bn industry catastrophe losses in 2017 managed in orderly way, demonstrate the value proposition of cat models





so what are the problems that the Oasis Framework is trying to overcome?



Priorities differ by company - but key issues are:

- Choice
- Availability
- Openness and Transparency no "Black Boxes"
- Affordability
- Standards

- An industry-led initiative, constituted as a not for profit company in 2012
- In essence, the Oasis Loss Modelling Framework is
 - A platform for running catastrophe models
 - a web based user interface and
 - an API for integration with other systems
- Oasis also provides Model Development Toolkit for developing, testing and deploying catastrophe models
- Over 30 subscribing re/insurance industry members

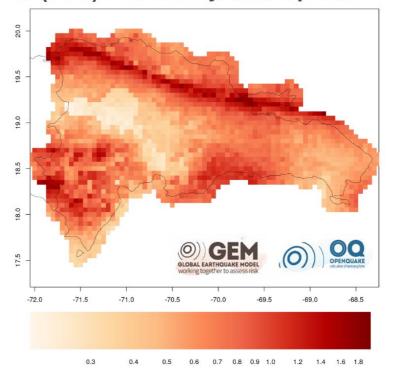


Update on how Oasis LMF is doing

Latest Oasis progress is positive, but certainly more to do

- Full Open Source code published and free to download from GitHub
- Accelerating Adoption and Operationalisation
- Increasing Model Choice in a Cost-Effective Way
 - All "independent" model providers commit to make models available on Oasis Platform, over 80 models available from 15 suppliers in 2018
- Reducing Deployment Costs
 - Deployment options become cheaper and more flexible
 - Free testing environment and shared service currently being offered for most models
- Working with Global Earthquake Model to integrate OpenQuake models
- Funding by German Govt to build freely-available cat models for Philippines and Bangladesh
- Building new Danube river flood model including climate change signals (funded by H2020)
- Climate KIC committed an additional €5m around Oasis for climate-risk applications

GEM-OASIS Dominican Republic SA(0.3 s) 10% in 50-yr return period





Breakout Session tomorrow morning on Oasis at 09:00

Discussion topics

- Outline of where Oasis fits in the SCOR strategy around catastrophe risk modelling
- Review of the open challenges that the industry faces in the use of cat models
- Informal discussion in groups about cat model gaps and priorities for closing in local markets
- Wrap-up



