

Aon Benfield
Impact Forecasting

Impact Forecasting

Transparent and customisable
catastrophe models and platform

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Risk. Reinsurance. Human Resources.

Aon
Empower Results®

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Catastrophe Analysis and Reporting

Impact Forecasting provides real-time information on catastrophic events through Cat Alerts, Weekly and Monthly Cat Recaps and the Annual Global Climate and Catastrophe Report.

The Catastrophe Insight portal provides aggregated economic and insured loss data for global natural catastrophe events during the current year plus the previous decade. Users can compare losses by peril or region.

catastropheinsight.aonbenfield.com

In an increasingly risky world, insurers and reinsurers need more sophisticated tools to quantify and manage the risks facing their businesses. Impact Forecasting, Aon Benfield's catastrophe model development centre of excellence, enables firms to analyse the financial implications of catastrophic events and achieve a greater understanding of their risks.

Breadth of Model Coverage

With over 100 probabilistic and scenario models spanning 10 perils and over 60 territories, we empower insurers by providing risk insights for the peak risk zones around the globe, as well as for the emerging markets. This allows insurers to place effective reinsurance programmes and manage capital based on more accurate model results. Impact Forecasting partners with academic and industry organisations around the world to incorporate the latest research into all of our catastrophe models.

Customisable models

All Impact Forecasting models can be customised based on the client's requirements for example using an insurer's loss data to generate more accurate results for a specific line of business, modify an existing event to explore the sensitivity of the losses for regulatory purposes or explore hazard uncertainty for a given peril. Recent examples include using our engineering expertise to apply claims data from churches and greenhouses to create bespoke damage functions and exploring uncertainty in the hazard component of our US hurricane model.

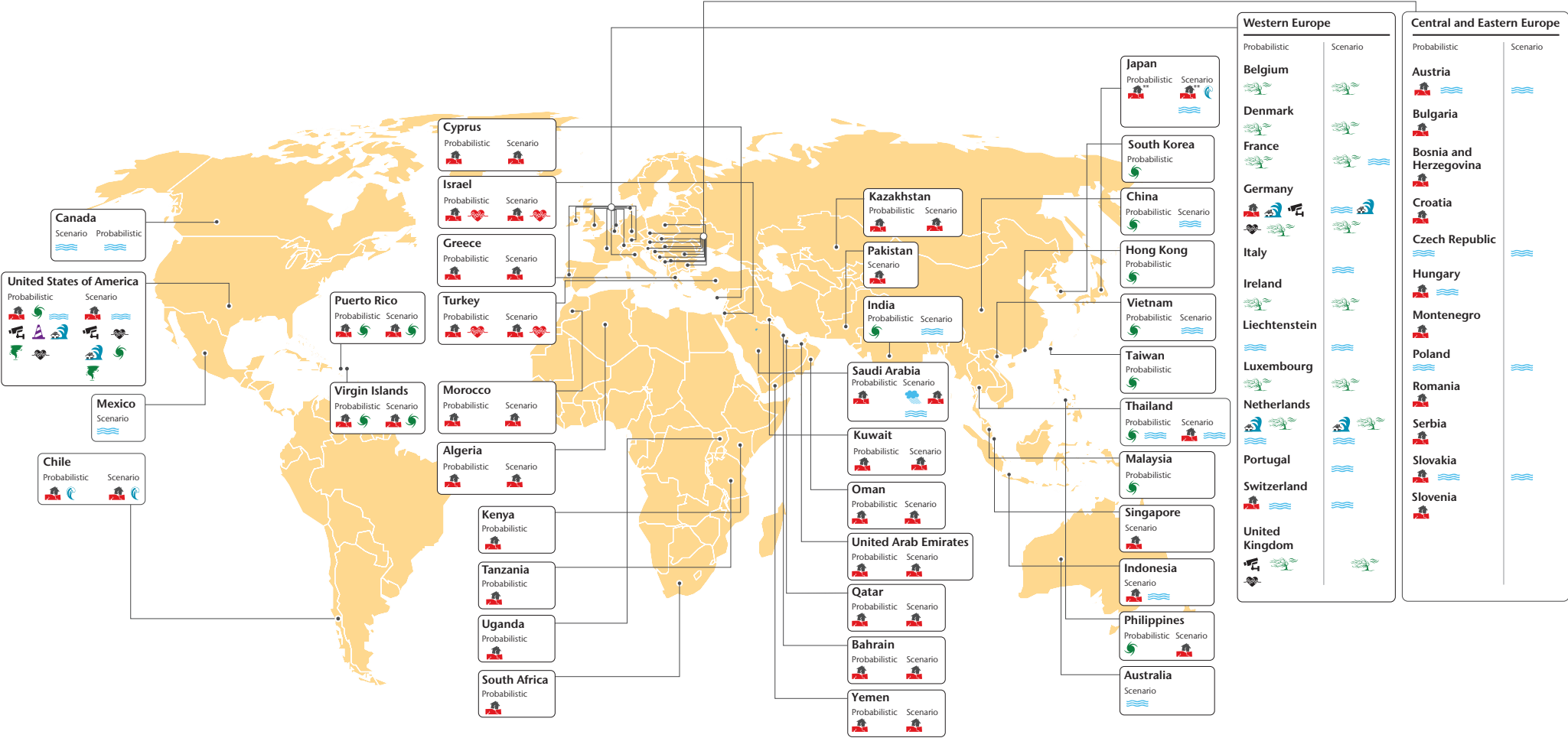
Transparent ELEMENTS loss calculation platform

Our models run in ELEMENTS, which gives insurers the ability to incorporate their own view of risk into model results. It delivers transparency so every step of the calculation process is clearly defined and can be easily explained to stakeholders, regulators and rating agencies while helping to quantify uncertainty in various model components. As a universal catastrophe modelling platform, ELEMENTS has the ability to run both Impact Forecasting models and third party models for any peril or territory. It also enables users to quantify and visualise the range of uncertainties to make business decisions based on their individual risk appetites.

Risk rating information to enhance primary underwriting

Impact Forecasting's set of hazard and risk score products—based on its modelled data—enables more accurate underwriting and risk assessment for natural and man-made hazards. The data helps insurers and corporations understand the impact of catastrophe risk on individual locations and then in turn estimate how much premium to charge.

Model Coverage Map



Map Icons



*tornado / hail / severe winds / thunderstorm

Model Coverage Index

Country	Probabilistic	Scenario
Algeria	earthquake	earthquake
Australia		flood
Austria	earthquake, flood	flood
Bahrain	earthquake	earthquake
Belgium	windstorm	windstorm
Bosnia and Herzegovina	earthquake	
Bulgaria	earthquake	
Canada	flood	flood
Chile	earthquake, tsunami	earthquake, tsunami
China	tropical cyclone	flood
Croatia	earthquake	
Cyprus	earthquake	earthquake
Czech Republic	flood	flood
Denmark	windstorm	windstorm
France	windstorm	windstorm, flood
Germany	earthquake, terrorism, life-terrorism, storm surge, windstorm	flood, storm surge, windstorm
Greece	earthquake	earthquake
Guam	tropical cyclone	tropical cyclone
Hong Kong	tropical cyclone	
Hungary	earthquake, flood	
India	tropical cyclone	flood
Indonesia	flood	earthquake, flood
Ireland	windstorm	windstorm
Israel	earthquake, life-earthquake	earthquake, life-earthquake
Italy		flood
Japan	earthquake, tropical cyclone	earthquake, tropical cyclone, tsunami, flood
Kazakhstan	earthquake	earthquake
Kenya	earthquake	
Kuwait	earthquake	earthquake
Liechtenstein	flood	flood
Luxembourg	windstorm	windstorm
Malaysia	tropical cyclone, flood	flood
Mexico		flood

Country	Probabilistic	Scenario
Montenegro	earthquake	
Morocco	earthquake	earthquake
Netherlands	storm surge and riverine flood, windstorm	storm surge and riverine flood, windstorm
Oman	earthquake	earthquake
Pakistan		earthquake
Philippines	tropical cyclone	earthquake
Poland	flood	flood
Portugal		flood
Puerto Rico	earthquake, tropical cyclone	earthquake, tropical cyclone
Qatar	earthquake	earthquake
Romania	earthquake	
Saudi Arabia	earthquake	cloudburst, earthquake, flood
Serbia	earthquake	
Singapore		earthquake
Slovakia	earthquake, flood	flood
Slovenia	earthquake	
South Africa	earthquake	
South Korea	tropical cyclone	
Sweden		cloudburst
Switzerland	earthquake, flood	flood
Taiwan	tropical cyclone	
Tanzania	earthquake	
Thailand	flood, tropical cyclone	earthquake, flood
Turkey	earthquake, life-earthquake	earthquake, life-earthquake
Uganda	earthquake	
United Kingdom	terrorism, life-terrorism, windstorm	windstorm
United Arab Emirates	earthquake	earthquake
United States of America	earthquake, flood, life-terrorism, storm surge, terrorism, tornado / hail / severe winds / thunderstorm, tropical cyclone	earthquake, flood, life-terrorism, storm surge, terrorism, tropical cyclone, tornado
Vietnam	tropical cyclone	flood
Virgin Islands	earthquake, tropical cyclone	earthquake, tropical cyclone
Yemen	earthquake	earthquake

About Impact Forecasting

Impact Forecasting is Aon Benfield's catastrophe model development centre of excellence whose seismologists, meteorologists, engineers, mathematicians, finance risk management and insurance professionals analyse the financial implications of natural and man-made catastrophes around the world. Impact Forecasting's experts develop a suite of probabilistic and scenario models, plus its transparent and customisable ELEMENTS loss calculation platform. These empower insurers and reinsurers to understand the impact of global risks ranging from hurricane, earthquake and flood to tsunami, cloudburst and terrorism. To find out more about Impact Forecasting® LLC, visit www.impactforecasting.com

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