



BIRDSEYEVUE

WEATHER ANALYTIX™

2024

DEVELOPED IN PARTNERSHIP WITH





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# INTRODUCTION

## BIRDSEYEVUE

**EUROPEAN SPACE AGENCY** BACKED INSURANCE TECHNOLOGY PROVIDER



## TECHNOLOGY

**WEATHER ANALYTIX™**: NAT CAT AND CLIMATE RISK MODELLING SOFTWARE FOR INSURERS

## CLIENTS



100%

### GLOBAL COVERAGE

Benefit from one solution with globally consistent, high-resolution NatCat data to measure and benchmark your exposure for any location in the world.

500k

### PROPRIETARY CODE

500,000+ lines of proprietary code, developed in-house, underlying our technology.

2bn

### CLIMATE DATA

Over 2bn individual climate and natural hazard historical data points spanning 50+ years.

# MANAGEMENT



JAMES RENDELL  
FOUNDER / CEO



Aviation & Aerospace  
Reinsurance Broker  
Cat Modelling



DR ALBERT DOW  
CTO



PhD High Energy Physics  
Doctoral Researcher on Higgs  
Boson, CERN Geneva



VINOD SINGH



TECHNOLOGY Lead

Amazon Senior Technology  
Private Equity: SilverFleet



GEOFFREY PEACH  
NED & UNDERWRITING



CUO TransRe Europe  
CEO TransRe London



RORY BUCKINGHAM  
DIRECTOR OF INSURANCE  
& BROKING



Accident & Health AVP  
Reinsurance Underwriter

# WEATHER ANALYTIX™

PROBABILISTIC NATCAT & CLIMATE MODELLING SOFTWARE



Turnaround time modelling individual locations using Moody's RMS & Verisk's AIR. Exposure data sent to Cat Modelling Team before results returned to underwriter.



Time spent assessing and modelling exposure using WEATHER ANALYTIX™ - at your desk, at point of underwriting.

## CLIMATE CHANGE

The insurance industry is struggling to adapt to a **new normal** in which losses fuelled by climate change induced natural disasters regularly **exceed \$100bn / year.**

It is critical that underwriters correctly model and understand their exposure to these evolving risks.

## SOLUTION

WEATHER ANALYTIX™ provides insurers with **easy to use / on hand** Natural Catastrophe Probabilistic Modelling Software.

Rather than sending risks off to Cat Modelling Team, underwriters model their exposure at their desk, **at point of underwriting.**

## MODELLING

Probabilistic, physics-based models using stochastic catalogues: We make the most sophisticated modelling techniques in insurance available to the wider financial sector.

It serves as a comprehensive Software as a Service (SaaS) solution tailored for **Brokers, Managing General Agents (MGAs), and (Re)Insurers.**



# PERILS



## LIGHTNING

Developed with University of Washington. Globally homogenous lightning density and frequency (kHz)



## FLOOD

Pluvial & Fluvial Global Flood. FATHOM and NASA GloFAS models available.



## EARTHQUAKE

Global Earthquake Model (peak ground velocity) and USGS Magnitude Data available.



## SNOWFALL

Radar, Satellite & Ground Station 30+ years hourly Snowfall Data.



## WIND SPEED & GUST

Radar, Satellite & Ground Station 30+ years hourly Windspeed & Gust Data.



## WILDFIRE

European Space Agency Copernicus Hub Global Wildfire Risk. Incorporates Fuel Load.



## TROPICAL CYCLONE

Hurricane, Typhoon, and Cyclone Storm Tracks 1900 onwards. National Oceanic and Atmospheric Administration (NOAA).



## TEMPERATURE

European Space Agency 30+ Years Global Temperature Data.



## US TORNADO

73 Years Observed Hourly US Tornado Tracks (NOAA)



## HAIL

Global Hourly Hail: OTD/LIS data from NASA, a DEM (interpolated from SRTM data), (Global)



## GLOBAL COVERAGE

Benefit from one solution with globally consistent, high-resolution NatCat data to measure and benchmark your exposure for any location in the world.

Climate Change trending & El Niño / La Nina adjusted.

# KEY FEATURES



Global Nat Cat Modelling & Exposure Management for MGA's & (Re)insurers.  
Built for underwriting speed and ease of use.



## Global Coverage

Benefit from one solution with globally consistent, high-resolution NatCat data to measure and benchmark your exposure for any location in the world.

## Hazard Map Visualisation

Overlay both historical and live hurricane tracks, earthquake faults and more.

## Exposure Mapping

Visualise and manage your aggregates and accumulations over time at point of underwriting

## Probabilistic Modelling

Probabilistic, physics-based models using stochastic catalogues and incorporation of climate-change trending.

## Portfolio Upload & Export

CSV upload and export your portfolio and run 10,000+ locations at once.

## API Integrations

Connect your actuarial pricing models directly via API.



# LINES OF BUSINESS



## CONTINGENCY

Festivals, Major Sporting Events, Fashion Shows and more.



## PROPERTY

D&F Commercial and International Property.

Insurance & Reinsurance



## ENERGY & CONSTRUCTION

Renewables, Energy, Pipelines and more.



## AGRICULTURE

Livestock: Feedlots Exposure to Hail, Heat-Stress and Flood.

## MARKET POSITIONING



WEATHER ANALYTIX™ **bridges the gap** between the main Cat Modelling providers and the Risk Score-only Hazard Model providers. High-speed probabilistic modelling and hazard analysis in one easy-to use online tool.

**Fast decision making** and exposure management **at point of underwriting**

Moody's



AIR  
A Verisk Business

- Complex & Expensive
- Suitable for large portfolio modelling only
- Not all regions covered

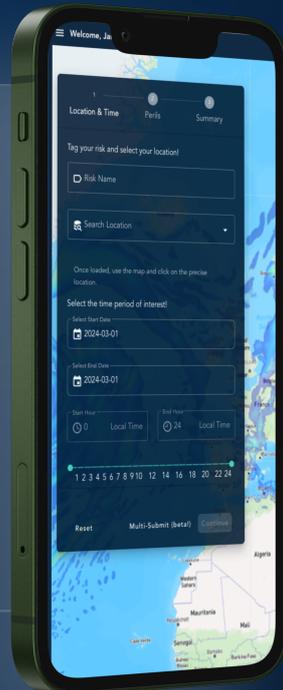


Swiss Re

Munich RE



- Swiss Re Cat Net & Munich Re's NATHAN provide Risk Score / Low Level Analysis
- No probabilistic Modelling







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