



Understanding risk and quantifying the potential damage to a location is critical for underwriters and risk management professionals to minimise the losses and operational impacts caused by large catastrophic events. The RMS[®] Underwriting Toolkit is the first solution of its kind to combine high resolution catastrophe model metrics, geocoding and mapping in a single solution, to enable accurate risk and loss assessment for multiple perils and countries.

RMS[®] Underwriting Toolkit

Catastrophic events such as earthquakes, floods and windstorms can cause extensive damage, high insured losses, and loss of business to a property. The RMS Underwriting Toolkit provides users with the ability to rapidly determine a location's risk from each of these perils using catastrophe model metrics. Metrics can aid in deriving an insurance premium appropriate to the risk, or can be used for site evaluations when developing operational and emergency plans.

The toolkit provides a single solution to geocode, retrieve model metrics, visualise results and extend data captured for site assessment or underwriting for other analyses such as accumulation management.

KEY BUSINESS BENEFITS

- Minimise adverse selection through effective risk selection
- Maximise revenue through appropriate price and rate setting
- Gain additional risk insight with granular hazard and loss metrics
- Increase speed of underwriting by integrating metrics within in-house automated underwriting rules engines
- Leverage operational efficiencies by utilising a single solution for location risk assessment
- Access a solution hosted by RMS with flexible architecture, low cost of ownership and minimal start-up and maintenance costs

USER APPLICATIONS

- Underwriters: risk screening, site assessment and deriving underwriting rules
- Corporate risk managers: site evaluation and selection, disaster management and planning
- Property owners and mortgage providers: assessment of risk and impact on property value prior to purchase

RMS MODEL METRICS

Metrics are derived from RMS catastrophe models, incorporating the latest scientific research and representing events of all severities and frequencies for a range of perils. The Underwriting Toolkit includes:

- Hazard metrics including return period flood maps that identify whether a location is within or in close proximity to an area of high risk and if the hazard, such as flood depth, varies significantly within the street, site or building
- Loss metrics such as average annualised loss that indicate the degree of loss from each peril for rate and price setting—location information combined with the RMS geocoding engine provides accurate results for an address

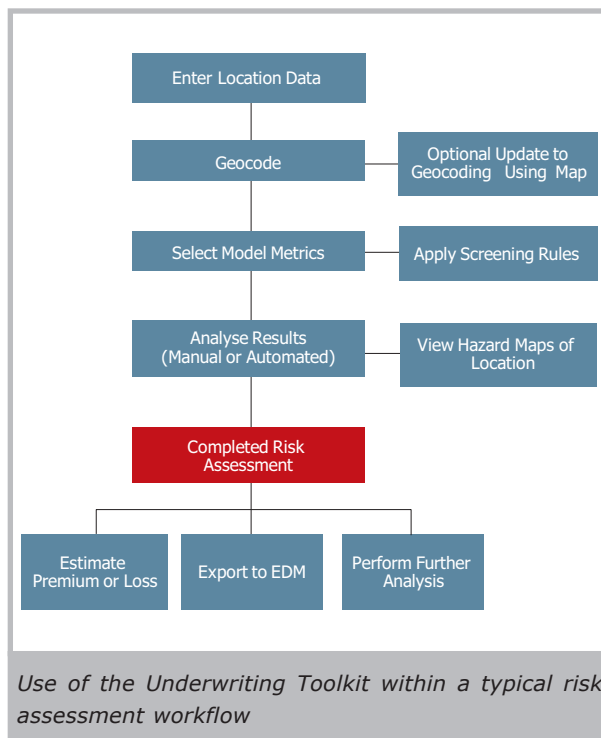
The models and associated metrics are widely used within the insurance and reinsurance industries and are calibrated against extensive insurance loss data, academic research and field surveys from recent events.

FLEXIBLE AND EFFICIENT DELIVERY

The Underwriting Toolkit is designed to be easy to use. The toolkit is hosted and maintained by RMS, and therefore requires no specialist hardware or software for installation. Functionality can be accessed and incorporated into existing workflows through RiskTools™ Web services or a Microsoft Excel® spreadsheet software interface.

Web Services

The RiskTools Web services offered by RMS allow users to integrate the toolkit's high-resolution geocoding functionality, and retrieve hazard and loss metrics within in-house systems—or to develop customised applications. Implementing the Underwriting Toolkit in conjunction with RiskTools allows companies to maximise operational efficiency in workflows, when working with large books of business and/or when a high degree of automated decision-making is required.



Microsoft Excel® Interface

Accessing the Underwriting Toolkit via the Microsoft Excel interface allows users to benefit from expanded functionality including:

- Location data entry: All location information is entered using standard Microsoft Excel functionality, ensuring one-time entry of data
- Geocoding: In addition to high-resolution geocoding, users can view geocoding results using the built-in Microsoft Virtual Earth mapping panel and manually refine geocoding using aerial imagery to derive coordinates of individual buildings within a site—building-specific model metrics are critical for perils such as flooding, where the risk can vary greatly over small distances
- Model metrics: After selecting the hazard and loss metrics to be retrieved, results can be output to the Microsoft Excel worksheet and hazard maps can be viewed in the mapping panel
- Results: All location data and results are stored in a Microsoft Excel worksheet, allowing for easy analysis and data exchange, or can be imported into an RMS exposure data module (EDM)

Location Number	Location Name	Street Address	Town	County	Post Code	Country	Lat	Lon
1	RMS Office	30 Monument Street	London		EC3R 8NB	GB		
2		128 Queens Road	Bristol		BS	GB		
3		London Bridge	London			GB		
4		47 Heathfield Rd	Bromley		BR1 3RW	GB		
5		Southgates Road	Great Yarmouth		NR30 3LL	GB		
6		30 Queens Ave	Kings Lynn		PE30 5	GB		
7		1 Checker Street	Kings Lynn		PE30 5	GB		
8	Edinburgh Univ - Kings Campus	West Mains Road	Edinburgh		EH9 3JF	GB		
9	Royal Edinburgh Hospital	Morningside Place	Edinburgh		EH10 5HF	GB		
10	Rolls Royce Factory	Stane Street	Chichester	West Sussex	PO18 0SH	GB	50.85	

U.K. Storm Surge Model metrics and hazard map for a schedule of locations using the Microsoft Excel® interface

Whether obtained via the Microsoft Excel interface or Web services, each metric can be accessed via an annual license fee, or on a fee-per-use basis allowing subscribers to pay only for the services they require.