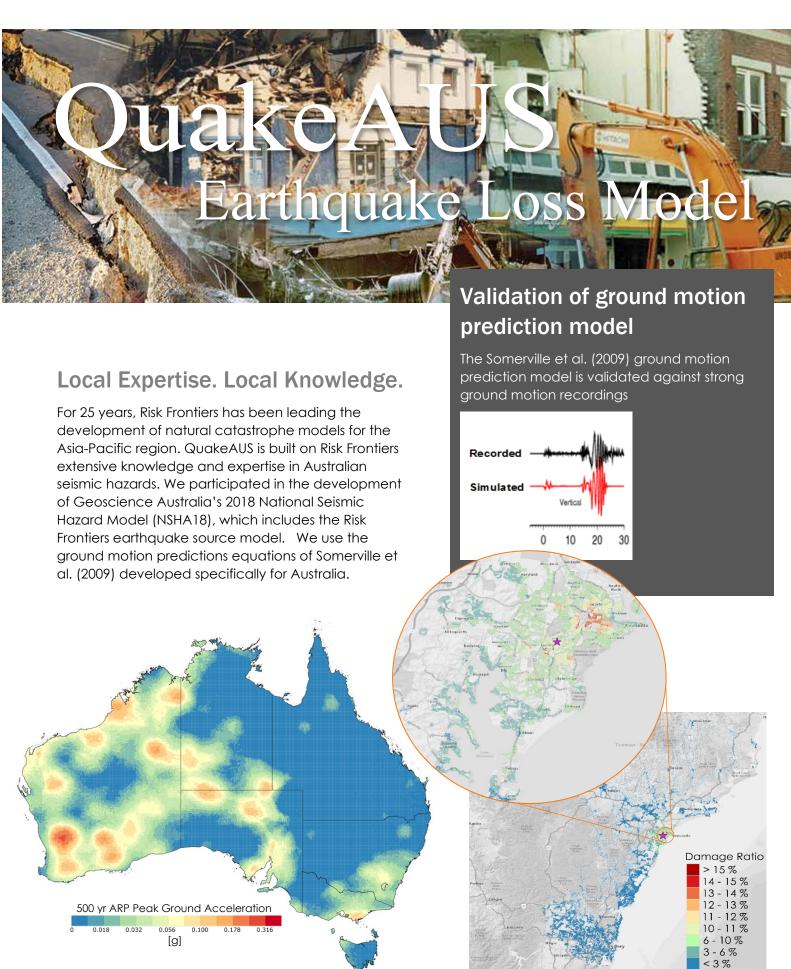
Risk Frontiers'







Model Overview

Hazard Resolution	Variable resolution, down to 1.6 km		
Exposure Resolution	Location Address Level		
Event Catalogue	50,000 years of stochastic earthquakes		
Ground Shaking and Exposure Parameters	Location, full acceleration demand spectrum, soil type, building construction type, building age, building height.		
Line of Business	Residential / Commercial / Industrial		
Business Interruption	Commercial / Industrial		
Coverage All Properties on mainland Australia and Tasmania. 100% GNAF / Geoscape / Geovision			

A Better Understanding of the Hazard

Risk Frontiers has implemented Geoscience Australia (GA) updated the seismic hazard model for Australia through the National Seismic Hazard Assessment (NSHA18) project. The NSHA18 update includes corrections of measurements of local magnitude ML of historical earthquakes, and the conversion of the ML values to moment magnitude, Mw, more than halving the rate of earthquakes exceeding a given magnitude across Australia. NSHA18 also includes a National Fault-Source Model (NFSM) listing slip rates on faults, improving reliability in estimation of rare large events that are not represented by the historical earthquake catalogue. Dr Paul Somerville was a member of the Technical Advisory Panel that provided peer review throughout the development of NSHA18.

One Click Portfolio Roll-up

Average Annual Losses

Aggregate ID	Average Annual Loss
Portfolio 1	\$14,808
Portfolio 2	\$18,510
Aggregate	\$33,318



Selected ARIs

Annual Occurrence

ARI	EP	Portfolio 1	Portfolio 2	Aggregate	
500	0.002	714,486	614,532	1,231,532	
200	0.005	498,536	417,092	874,906	
100	0.010	347,988	287,522	626,872	
50	0.020	213,482	177,696	388,710	
20	0.050	82,678	70,338	155,484	
10	0.100	30,850	25,914	57,998	
6	0.167	12,340	9,872	23,446	

Location Level Intelligence

Location	Archer Street, Chatswood, NSW
Latitude	-33.8
Longitude	151.19
Property Replacement Value	AUD 630,000
Annual probability of experiencing a loss due to earthquake (Gross)	0.25% (AAL: 13 AUD)
Soil Type	Firm to hard rock

Selected Vulnerability Parameters

Building Age	1903
Building Type	Un-reinforced Masonry
Number of Stories	1

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