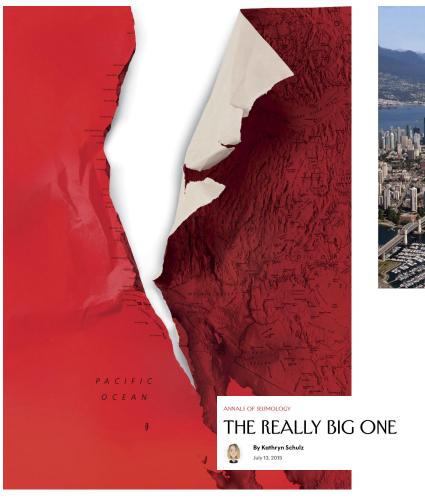
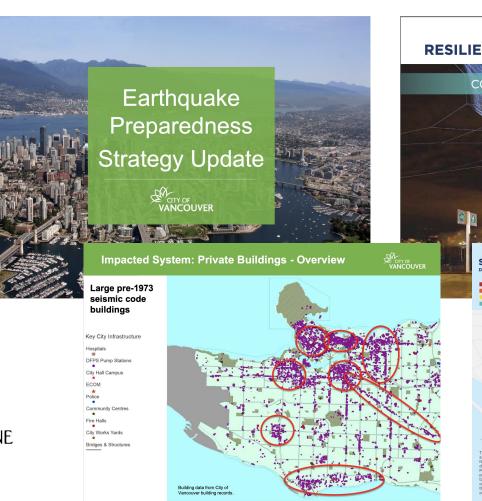


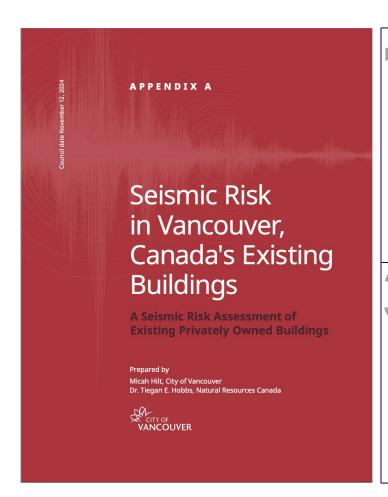
The Really Big Problem



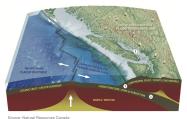




Understanding Seismic Risk



Earthquakes



Models show a

1 in 5 chance
of a very strong
earthquake in the
next 50 years.

The NZ \$40B 2010-11 Christchurch earthquake sequence occurred on a previously unknown fault line.

Seismic Risk and Risk Reduction in Existing Privately Owned Buildings | 11-12-2024 | 5

Buildings Seismic Risk

Modelled using the M7.2 Georgia Strait Planning Scenario Earthquake

6,080 heavily damaged buildings, leading to:

230,520

residents disrupted & displaced over 3 months

365,340

daytime building users disrupted & displaced

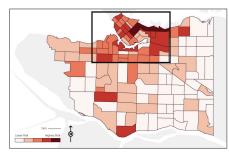
1,370

severe injuries & fatalities \$17B in direct financial losses

Modelling does not include the contribution of infrastructure failure, delayed emergency response and recover aftershocks, and the following earthquake. Heavily damaged buildings are red and yellow-tagged buildings. Direct financial losses include only replacement values. Severe injuries are those requiring immediate hospitalisation. Population figures are estimates only.

Neighbourhood Seismic Risk

Modelled using the M7.2 Georgia Strait Planning Scenario Earthquake

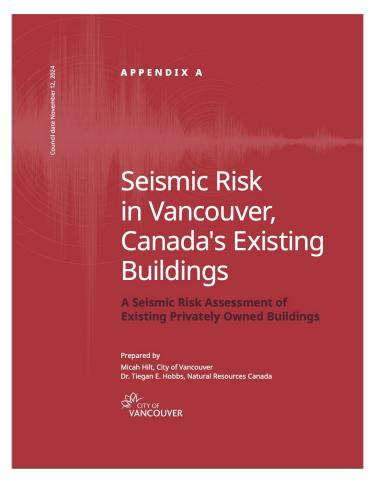


Six neighborhoods contribute nearly 65% of buildings seismic risk

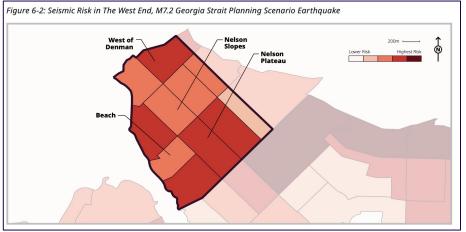
Relative Seismic Risk Map By Census tract, Modelled M7.2 Georgia Strait

Modelling supporting this map does not include the contribution of infrastructure failure, delayed emergency response and recovery, aftershocks, and fire following earthquake. Heavity damaged buildings are red and yellow-lagged buildings. Direct financial losses include only replacement values. Severe liquies are those requiring immediate hospitalisation. Population figures are estimates only. Less than 10% of buildings drive nearly 80% of risk.

Understanding Seismic Risk



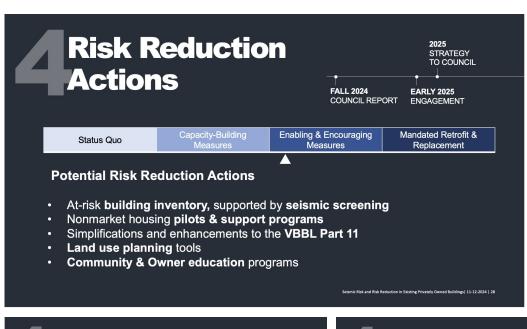
Risk-Driving Building Types	Approximate Count (% total buildings)
Concrete Mid- and High-rise Multiunit Residential Buildings	1,100 (1.2%)
2. Unreinforced Masonry Multiunit Residential Buildings	600 (0.6%)
3. Wood-framed Multiunit Residential Buildings	3,900 (4%)
4. Unreinforced Masonry, Wood, & Low-rise Concrete Commercial Buildings	2,700 (3%)
5. Concrete Mid- and High-rise Commercial Buildings	300 (0.3%)
	8,550 (9.5%)

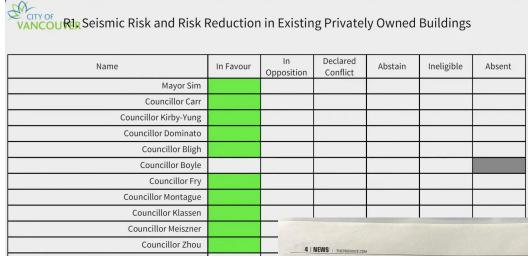


Highest-risk neighbourhoods contain nearly 70% renters. These renters are nearly 20% low-income, over 10% seniors, 30% identify as visible minorities, and 4% are Indigenous Peoples

Risk-driving building types contain the majority of housing units, including 80% of the purpose-built rental units

From Understanding to Action

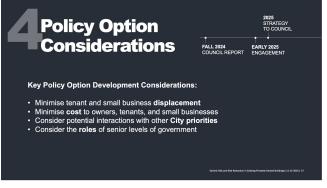




TOTAL

10





VOTE No. 10294

Earthquakes pose 'significant' risk to city

Computer modelling suggests 6,300 older Vancouver buildings would be heavily damaged

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Centre for Climate and Business Solutions









