

Karolina Pol, Policy Advisor, Natural Resources Canada URBC Symposium Ignite Talk November 2, 2020



November 2, 2050...



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Downtown Vancouver after the 8.2 magnitude earthquake

November 2, 2020...





Why community planning?

Mitigation Ideas: A Resource for Reducing Risk to Hazards

(FEMA, 2013)

Half of mitigation ideas for earthquakes involve:

- Building code adoption
- Land use and development decisions
- Addressing community
 vulnerability



Making Cities Resilient 2030, UN Office for Disaster and Risk Reduction

4,360 cities

are getting ready, what about yours?

Integrating Seismic Risk Information into Community Plans NATIONAL EARTHQUAKE RISK PROFILE



National Earthquake Risk Profile. Geological Survey of Canada.

PLANNING LIFECYCLE





Land Use

Q: What land uses are exposed to high levels of seismic risk?

Opportunities to mitigate seismic risk:

- Official community plans
- Policy plans
- Zoning bylaws
- Rezoning

Bakersfield Land Use Plan, Kern County, California.



Neighbourhoods

Q: How is social vulnerability distributed across neighbourhoods?

Opportunities to mitigate seismic risk:

- Policy plans
- Social programs
- Community amenity contributions

Somerset Street in China Town, Ottawa. Photo credit: Karolina Pol.



Buildings

Q: Are there concentrations of highrisk buildings in a specific location that are of particular significant to a community?

Opportunities to mitigate seismic risk:

- Neighbourhood plans
- Development Permit Areas
- Municipal asset plans

Leveraging the rate of change in communities Whalley, Surrey,



Concept for Georgetown development. Credit: Anthem Properties.

Leveraging the rate of change in communities LeBreton Flats, Ottawa, ON



Aerial view of LeBreton Flats in Ottawa. Photo credit: National Capital Commission (NCC).



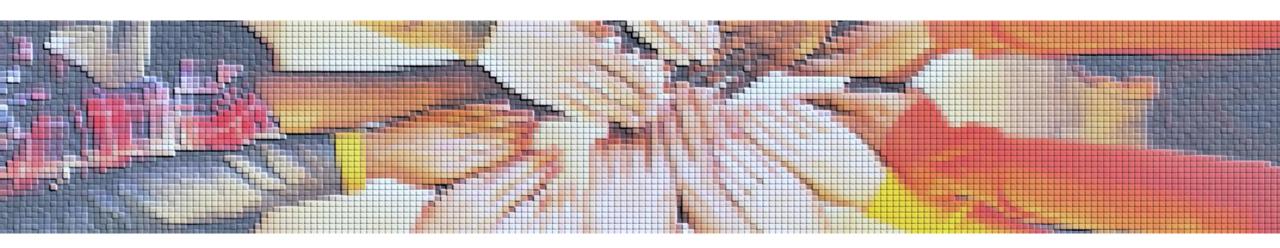
Concept for the Parks District in LeBreton Flats, Ottawa. Credit: NCC.

What we are not saying...



What we are saying...

Imagine how much risk could be mitigated in 30, 50, 100 years if we work collaboratively to integrate seismic risk information into the community planning process?



Come join us!

Creating Earthquake Resilient Cities:
Using the National Earthquake Risk Profile to Plan Resilient
Communities

November 17 @ 1pm – 3 pm PST. Register online.

- Test out the National Earthquake Risk Profile and provide important feedback to ensure that it is relevant and useful to practitioners
- Collaborate with colleagues working in diverse fields across the country to design an earthquake-resilient city
- Inform the development of national guidelines to mitigate seismic risk in Canadian communities