

Today's Presentation



- Context
- Framework for Resilient
 Vancouver Strategy
 - Findings, Objectives and Key Actions
- Next steps



100 Resilient Cities Network





Strategy Development Process



Assess Gaps & Opportunities 2017-18

Develop the Strategy 2018-19

- Engaged 2500+ local stakeholders
- Partnered with all levels of government, academics, community groups & subject matter experts
- Leveraged \$2 million in grants and in-kind contributions to date
- Initiated key pieces of work (Seismic Assessment, Resilient Neighbourhood Program, Critical Infrastructure)
- Secured commitment and support for actions moving forward

Photo: Sharing our Stories, Community Resilience Event

Recommendation to Council



Assess Gaps & Opportunities 2017-18

Develop the Strategy 2018-19

Embed, Integrate & Implement 2019 & beyond

THAT Council approve the framework for the Resilient Vancouver Strategy, generally as described in this report, and direct staff to finalize the Strategy and associated implementation plan.

THAT Council direct staff to integrate the Resilient Vancouver Strategy framework and key findings from research and engagement into the development of the City-Wide Plan.

Photo: Sharing our Stories, Community Resilience Event



Resilience is ...

"Planning with love for future generations"

"Being able to help each other in times of crisis, disaster and social problems"

"Healing and being able to help each other"

"Learning from challenges and becoming stronger"

"Ability to bounce forwards"



What's impacting our resilience?











Shocks: Acute events like earthquakes, floods, snow storms, heat waves, wind storms, etc.

Stresses: Chronic issues like affordability, poverty, stigma, racism, social isolation, aging infrastructure, etc.





A Strong Foundation





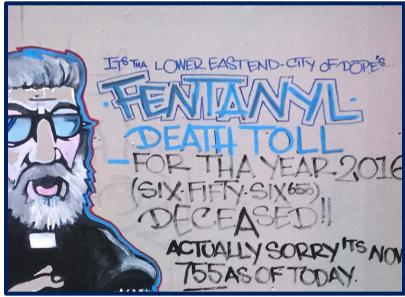
Local Knowledge and Lived Experience











Guiding Principles





Resilient Vancouver Strategy



Guiding Principles

3 Focus Areas

12 Resilience Objectives

45 Enabling Actions

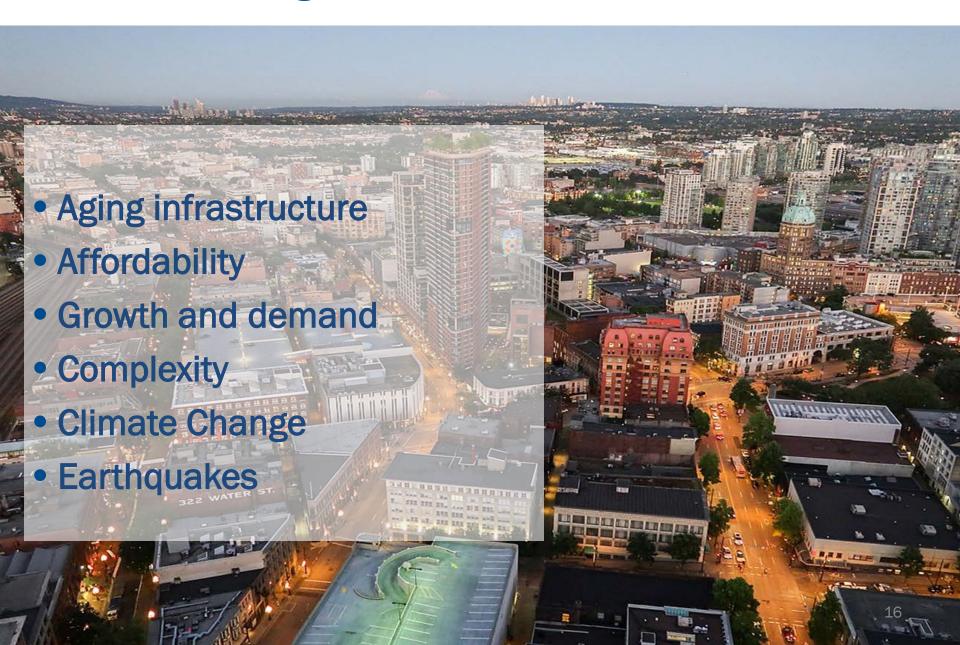
Our Approach

- ✓ Address major gaps
- ✓ Embed resilience
- Leverage local partnerships
- ✓ Empower community



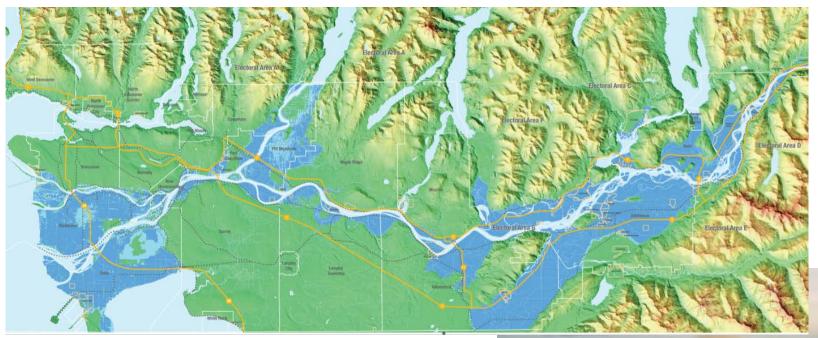


Local Challenges



Regional Interdependencies





Regional Fraser River Flood Map Scenario, Fraser Basin Council



Natural Gas Pipeline Explosion, Prince George

Strengths

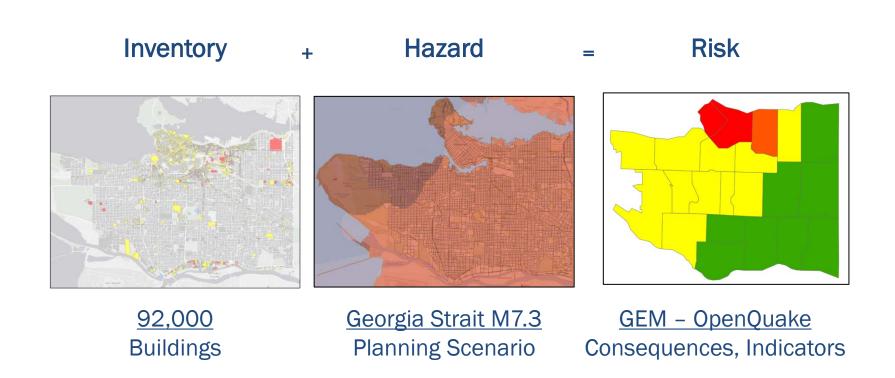


- Progressive approach to climate adaptation and resilience
- Investment in Green
 Infrastructure and Water
 Resilience
- Civic Facilities Seismic Program
- Dedicated Fire Protection
 System



Addressing our Gaps – Earthquake Modelling





Modelled Seismic Risk to Buildings





1 in 10 buildings unusable*

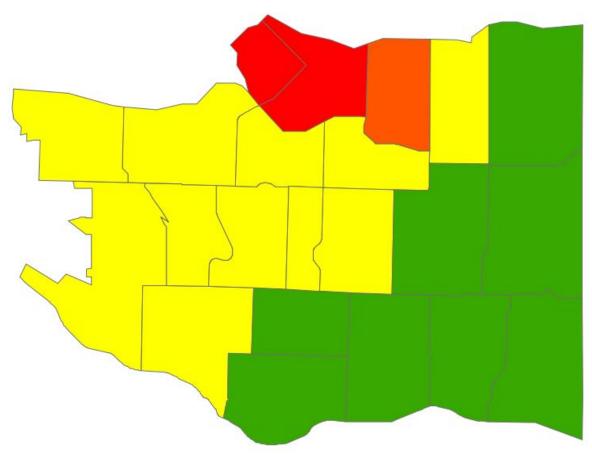


Nearly 1/2 of residents displaced for more than 1 month; 150 000 for more than 3 months*



More than 11,500 injuries; 1,100 severe or fatal*









Building Damage

Simulated 7.3 M Georgia Strait Earthquake By Census Dissemination Area April 2019



Objectives: Buildings & Infrastructure



Action:

Advance Seismic Risk Assessment & Policy Options



- Assess socio-economic impacts
- Establish risk reduction and recovery targets (in conjunction with city wide plan)
- Engage broadly
- Partner with the Province

Seismic Policy Advisory Committee

















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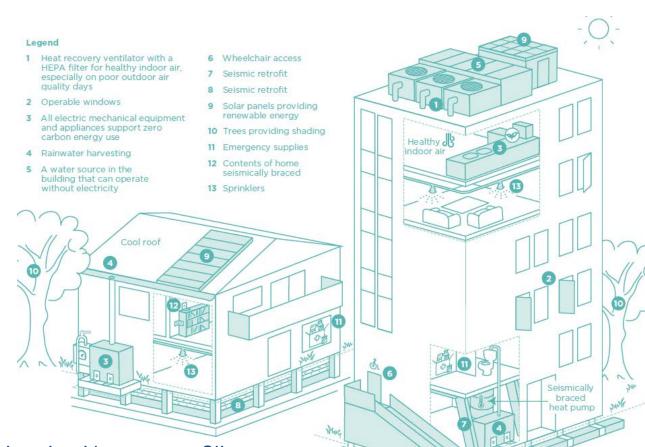
Pour des collectivités résistantes

Resilient Buildings



Identify co-benefits and incentives to promote:

- Accessibility
- Affordability
- Climate adaptation
- Safety
- Community recovery



Builds on: Green buildings, Housing Vancouver, Climate

Adaptation, Facilities Seismic Program

Inspired by: Toronto, Wellington, Melbourne, San Francisco,

Los Angeles, Berekely, Boston, Victoria, BC Housing

Action: Disaster Resilient Infrastructure Network



- Facilitate distribution of resources to critical facilities and throughout our city
- Prioritize and coordinate investment in resilient infrastructure
- Enable people to stay in their homes
- Accelerate social and economic recovery



Builds on: Dedicated Fire Protection System, North East False Creek, Coastal Flood Risk Assessment, Disaster Staging Areas

Partners: NRCan, UVic, UBC, ICLR, Fraser Basin Council Inspired by: San Francisco, Los Angeles, Boston, Calgary

Proactive & Collaborative Government



Governance in the Face of Uncertainty



1900



2007



2030



- Strategic foresight and scenario planning
- Alignment of climate adaptation, risk management and emergency management functions
- UN Framework for Disaster Risk Reduction (DRR)

2050



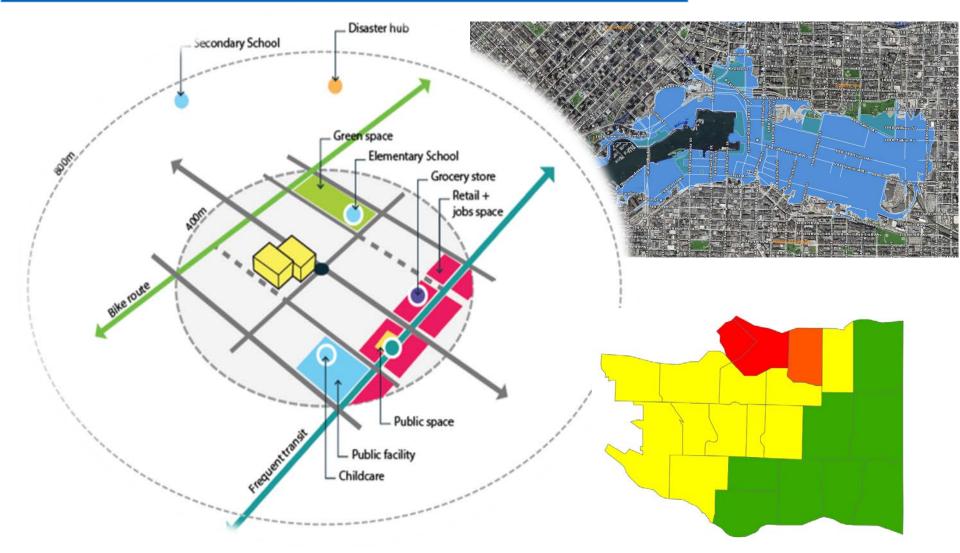
Objectives: Proactive & Collaborative Government





Action: Reduce risk through hazard modelling, landuse & urban design





Partners: DRR Pathways Project, Centre for Active Design, UBC Inspired by: New York, The Hague, Rotterdam, Norfolk, Stockholm

Action: Women in Resilience Dialogue







- Learning from experiences of diverse women in resilience and recovery
- Integrate this knowledge into planning and practice
- Foster ongoing and meaningful dialogue
- Create opportunities for future generations

Partners: EMBC

Inspired by: UNISDR, Women Transforming Cities,

Melbourne



Objectives: Neighbourhoods





Resilient Neighbourhoods Program



- ✓ Community Asset Mapping
- ✓ Resilience Action Plans
- ✓ Emergency preparedness & training
- √ Knowledge sharing and exchanges

Next Steps: Resilient Neighbourhood Tool-kit & Grant Stream









Inspired by: Wellington, Seattle, San Francisco, Boston, Toronto, Kitchener, Edmonton, Victoria

Neighbourhood Resilience in Action



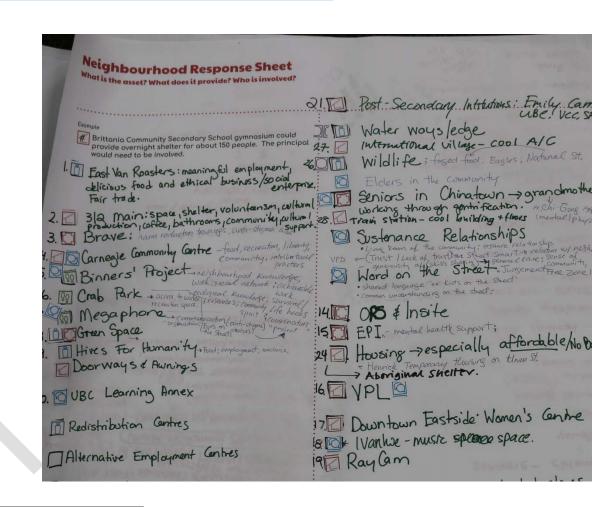




Action: DTES Emergency Response & Recovery Planicouver

- Support for community-requested process
- Respond to urgent need
- Empower those that are able to act
- Enable place-based emergency planning

72 Hours
Lets' make a difference



A PROJECT OF COMMUNITY ORGANIZATIONS

The Development of a specialized Emergency and Disaster Response Model and Recovery-Rebuilding Plan to address needs of Vulnerable populations in Vancouver's Inner City and Downtown Eastside

Action: Resilient Neighbourhood Living Labs



- Activate public and private spaces
- Strengthen place-based connections
- Support local solutions
- Strengthen civic relationships



Inspired by: Thingery, NeighbourLab, Evergreen, City Studio, New York, Melbourne, New Orleans, San Francisco, citizen leaders all over the world.

Celebrating Resilience - Upcoming Events



- Neighbourhood Resilience Walks
- Women Deliver Resilience Event
- Creative Lab Learning
 Exchange with Local Artists
 & City of Melbourne
- UBCM Conference Theme of Resilience



Summary



- A strategy built on local and global partnerships
- Addresses critical gaps to meaningfully reduce risks
- Promotes proactive and inclusive planning
- Empowers and elevates community voices
- This is the start of a journey



We can do this



- Leveraged more than \$2 million to date
- Confirmed partnerships and contributions for implementation
- Opportunity to integrate and refine through City Wide Plan
- Embed through departmental initiatives
- Reciprocal partnerships with community
 & stakeholders

























Building resilient communities

Institut de prévention des sinistres catastrophiques

Pour des collectivités résistantes

Recommendation to Council



- THAT Council approve the framework for the Resilient Vancouver Strategy, generally as described in this report, and direct staff to finalize the Strategy and associated implementation plan.
- THAT Council direct staff to integrate the Resilient Vancouver Strategy framework and key findings from research and engagement into the development of the City-Wide Plan.

Next Steps

- Finalize & publish strategy document (June)
- Launch Resilient Neighbourhood Tool-kit & stream
- Integration with City wide plan & continuation of ongoing actions
- Further implementation and resource needs to be addressed as part of annual budget process

