



Understanding Risk

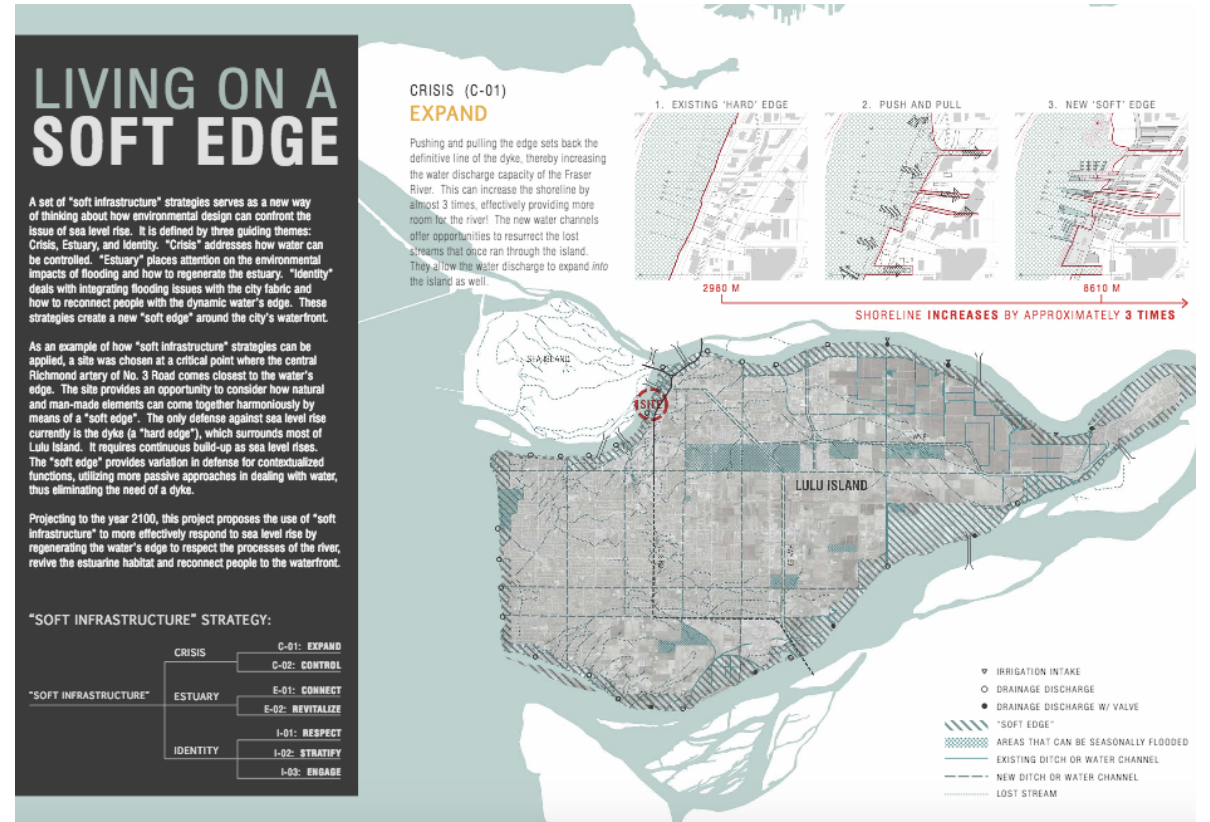
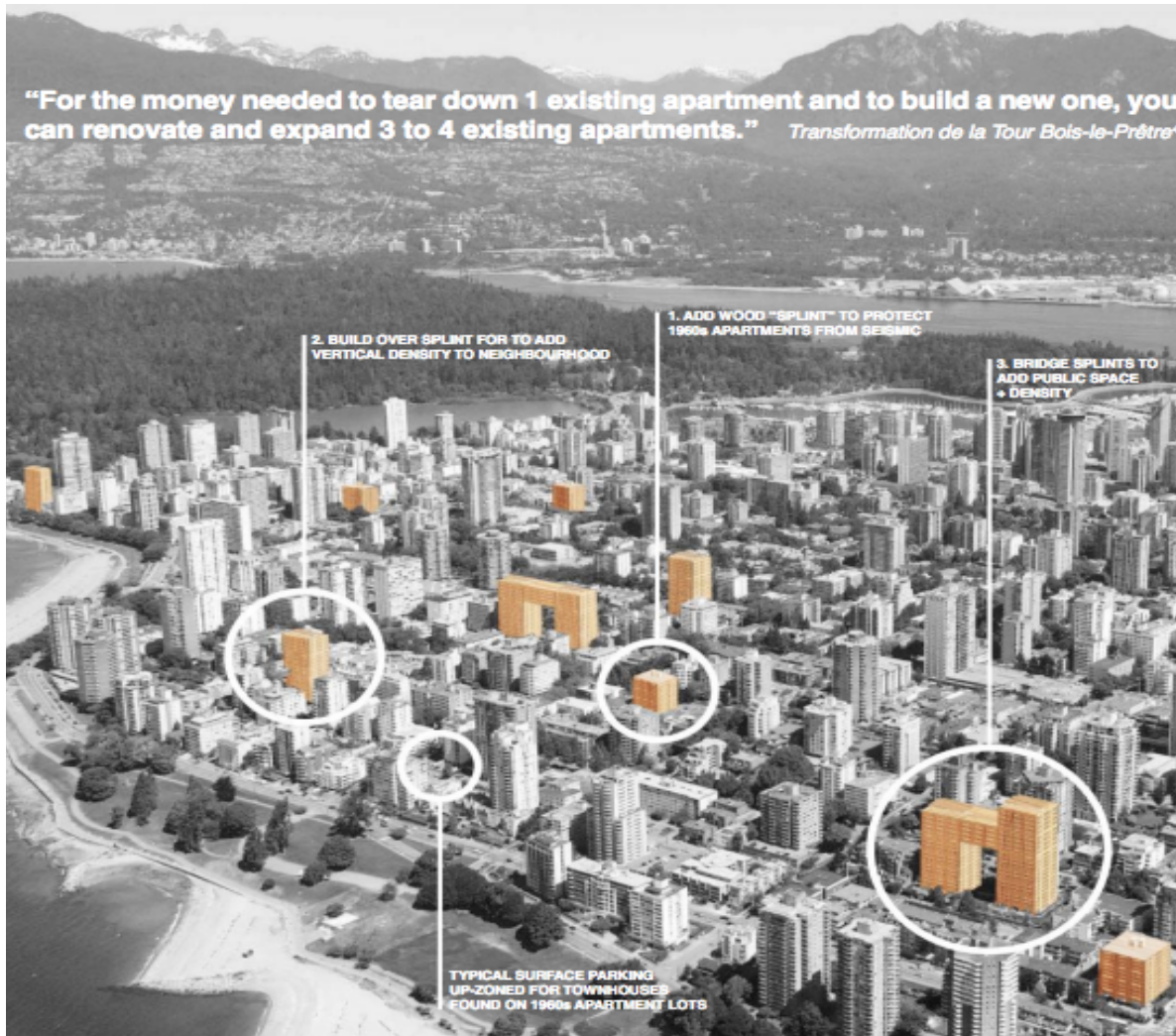
British Columbia

Collaboration and Innovation for a Resilient Future

2020 | Online Symposium + Event Series

Jessica Shoubridge, MAP
Founder & Principal, Thrive Consulting
jessica@thriveconsulting.me

A Resilient Georgia Basin?



UR in Review

Seed \$
From Public
Safety Canada
(PDCP)

UR+ Vancouver
(March 2017)

Seed \$
From BBKA
and EMBC

UR+BC Built
Environment
(2018)

Seed \$
From NRCan
and CSSP

URBC
(Sept 2020)

Sustainment - BC DRR Hub

The URBC Story



What have we learned so far? *Action builds resilience. Inaction stokes fear.*

2017	ACTIONABLE STRATEGY	PROGRESS
Risk Communication & Education	Develop forums for sharing CI information & keep records	Ongoing via DRR-Pathways project
Data / Mapping / Modelling / Tools	Complete robust seismic microzonation maps for major urban communities at risk & develop fragility functions specific to the region	Ongoing via Uwestern/EMBC project, DRR-Pathways, CoV seismic policy development for Metro Vancouver
Buildings / Codes / Construction	Develop the financial/legislative framework to incentivize/facilitate the performance-based seismic retrofit of existing buildings	Ongoing via BSSB, CoV policy, existing building codes (~2024)
Process / Risk Governance / Funding	Organize another UR event, set up regional resilience round tables, develop a provincial resilience strategy	UR BC 2018 & 2020
2018	ACTIONABLE STRATEGY	PROGRESS
Existing Buildings	Develop & disseminate case studies to show synergistic opportunities for retrofits and discourage maladaptive practices	BC Housing & MBAR case studies
New Buildings	Address barriers to going beyond code: finance, knowledge base, inspector training & experience	Ongoing via VEC/PACE, MBAR & BC Housing, BSSB
Buildings & Lifelines	Use integrated models to assess/address consequences & recovery efforts that cross infrastructure type/sector	Ongoing efforts via DRR-P project
Tsunami Risk & Response	Collaborate to fill the gaps in mapping & modelling (improve data, improve upon preliminary maps)	Ongoing efforts via CSSP project re: coastal risk

What we hope to achieve together, going forward

- Hazard Mapping
- Risk Assessment/Modelling
- SLR Scenarios
- 3D Building Modelling/BIM

- Floodplain Mapping Standards
- Risk Tolerance Criteria
- Flood Construction Levels
- Performance-Based Design in Codes

- Current/Consistent Flood Mapping for all of BC
- Risk Informed Land Use Planning
- Flood Resilient Buildings/Development
- Increased Capacity to Finance/Design/Build Better Buildings



SCIENCE



POLICY



ACTION

URBC 2020: Resilience Roadmap

- Initiative in Focus & Dialogue Sessions
- Sprint Two kicks off in November
- Please contribute actively to this community conversation- Be a part of the solution!

Help shape the Roadmap!



Thank you to UR BC 2020 Sponsors!



Natural Resources
Canada

Ressources naturelles
Canada

**Canadian Safety
and Security Program**



Insurance Bureau of Canada
Bureau d'assurance du Canada



Office of Housing and
Construction Standards

