
BC | Climate Resilience Summit 2025
Vancouver, Robson Square March 3rd/4th

Setting the Stage

Climate Science

PACIFIC CLIMATE IMPACTS CONSORTIUM

Table 1. Selected climate indices for past and future for City of Vancouver.

Index	Label	Past (1971-2000)	Anomalies (2050s)	Percent Change (2050s)
Warmest Summer Days	TXX	29°C	3.9 (2.2 to 4.8) °C	n/a
Coldest Winter Days	TNN	-9.4°C	4.7 (3.3 to 6.1) °C	n/a
Ice Days	ID	4 days	-2 (-1 to -3) days	-66 (-44 to -86) %
Summer Days	SU	18 days	43 (25 to 60) days	139 (38 to 233) %
Cooling Degree Days	CDD	58 DD	242 (106 to 374) DD	415% (230% to 640%)
Growing Degree Days	GDD	2120 DD	930 (550 to 1300) DD	44% (26% to 63%)
Heating Degree Days	HDD	2860 DD	-820 (-540 to -1170) DD	-29% (-37% to -19%)
Wet Day Precipitation	R95p	306 mm	98 (17 to 182) mm	33% (5% to 62%)
Extreme Precipitation	RP20p	89 mm	31 (8 to 51) mm	36 % (11% to 56%)
Dry Spells	CDryD	23 days	5 (0 to 11) days	21% (1% to 42%)

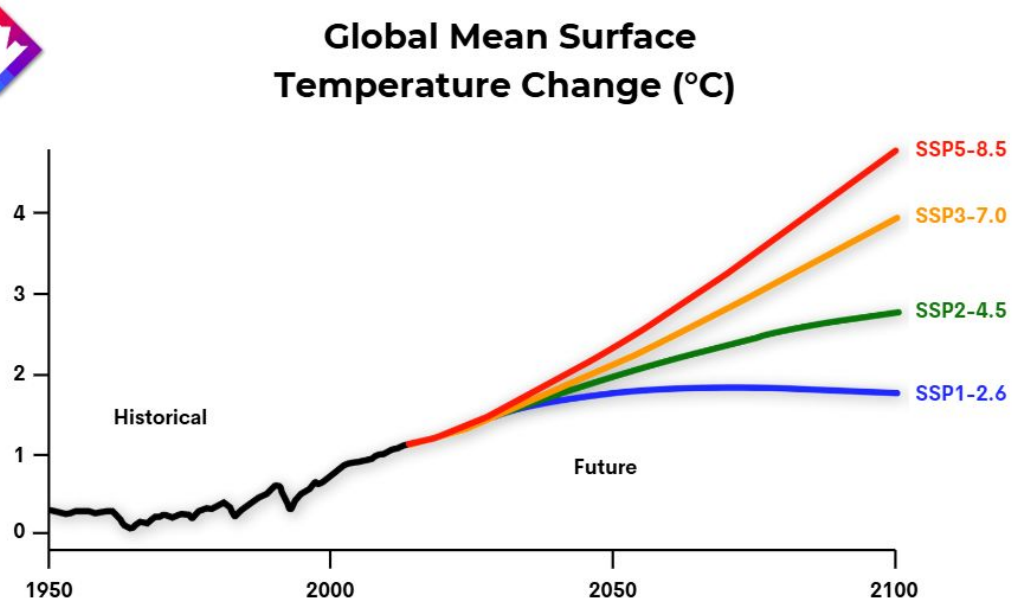
Climate Science

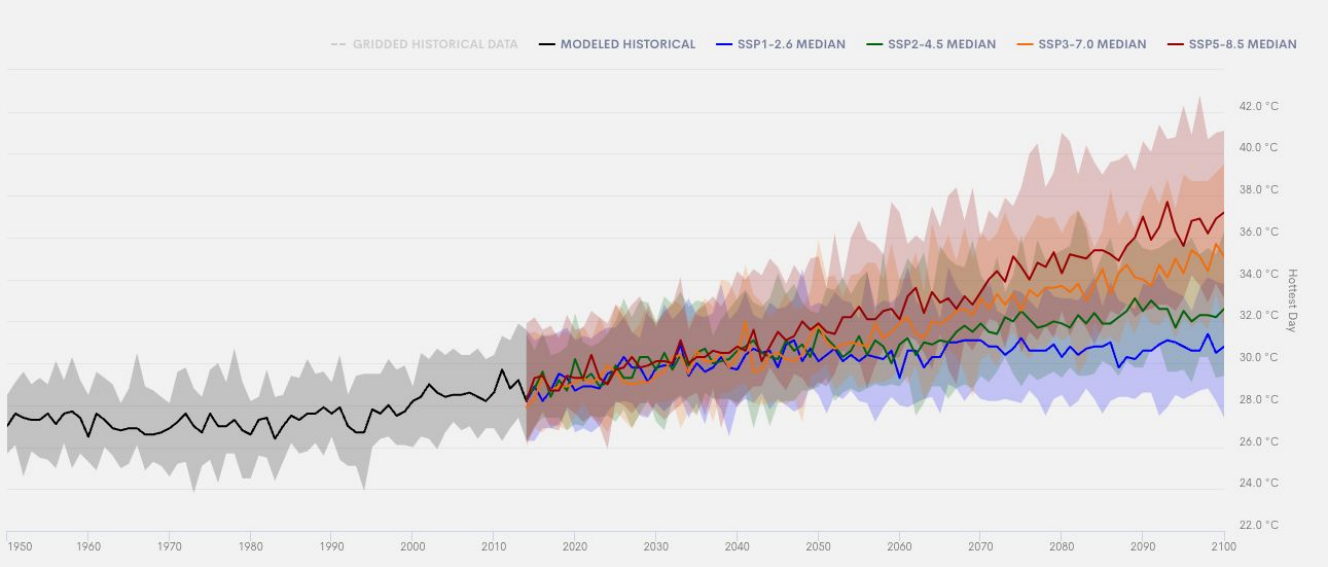
PACIFIC CLIMATE IMPACTS CONSORTIUM

	Impact Driver	1990s Median	High Emissions Scenario 2041-2070 ("2050s") Low	Median	High
EXTREME HEAT	Hottest summer day	29.7°C	32.2°C	32.9°C	36°C
	Number of >30°C days per year	1	6	9	29
	Number of >16°C nights per year	6	43	57	92
	Longest annual heatwave (in days)	3	5	6	17
	Number of heat wave days per year	1	9	16	46
DROUGHT	Total summer rainfall	144mm	113mm (-21%)	138mm (-4%)	143mm (-0%)
	Total annual snowfall	46mm	8mm (-84%)	19mm (-60%)	28mm (-45%)
FLOODING	Number of days with heavy rainfall (>95p)	9	10	11	12
	Maximum 1-day precipitation	46mm	51mm (+8%)	53mm (+15%)	58mm (+28%)
	Total rainfall on the 1-in-20 wettest day	72mm	80mm (+11%)	86mm (+19%)	97mm (35%)

- Understanding Fire Weather and Climate Change
- IDF Curves and Climate Change learning and data
- Design Value Explorer and Future Building Design Value Summaries

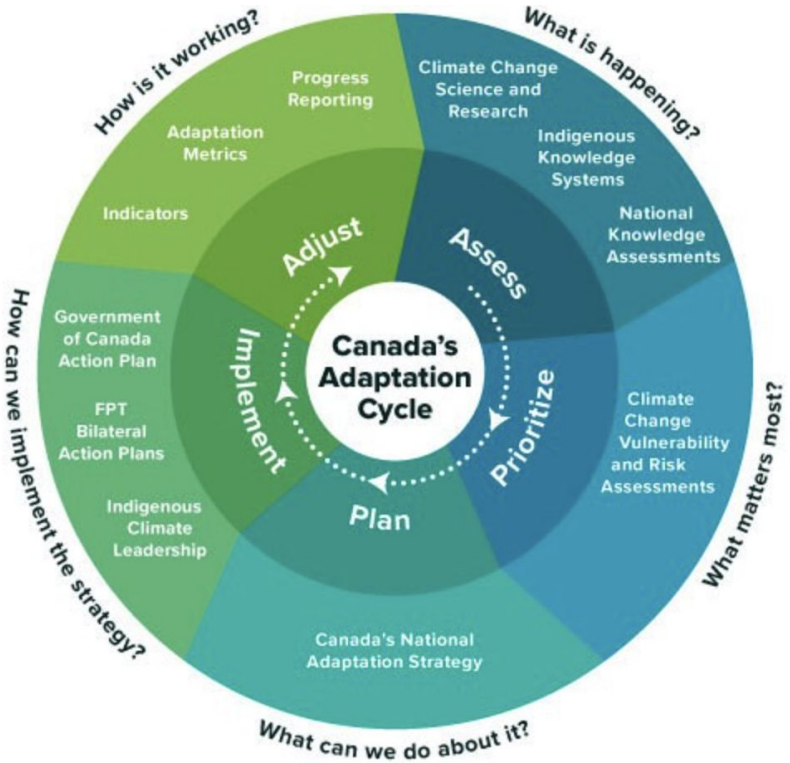
Climate Science

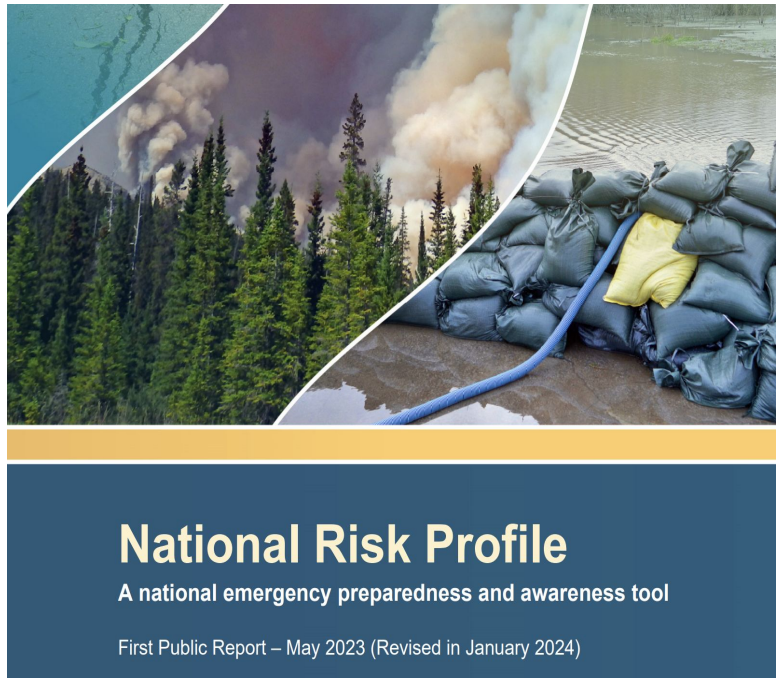




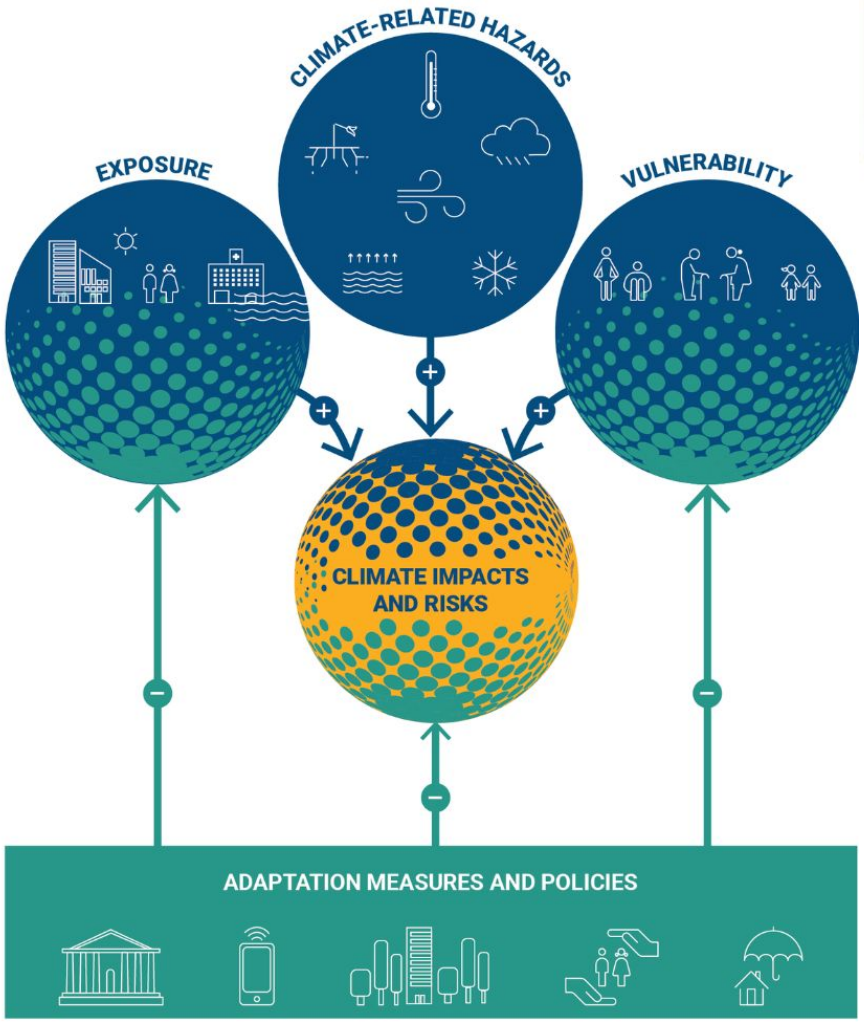
GWL (°C)	SSP1-2.6	SSP2-4.5	SSP3-7.0	SSP5-8.5
1.5	**2023-2042** [2012-2031 to n.c]	**2021-2040** [2012-2031 to 2037-2056]	**2021-2040** [2013-2032 to 2033-2052]	**2018-2037** [2011-2030 to 2029-2048]
2.0	n.c. [2031-2050 to n.c]	**2043-2062** [2028-2047 to 2075-2094]	**2037-2056** [2026-2045 to 2053-2072]	**2032-2051** [2023-2042 to 2044-2063]
3.0	n.c. [n.c. to n.c.]	n.c. [2061-2080 to n.c]	**2066-2085** [2050-2069 to n.c]	**2055-2074** [2042-2061 to 2074-2093]
4.0	n.c. [n.c. to n.c.]	n.c. [n.c. to n.c.]	n.c. [2070-2089 to n.c.]	**2075-2094** [2058-2077 to n.c.]

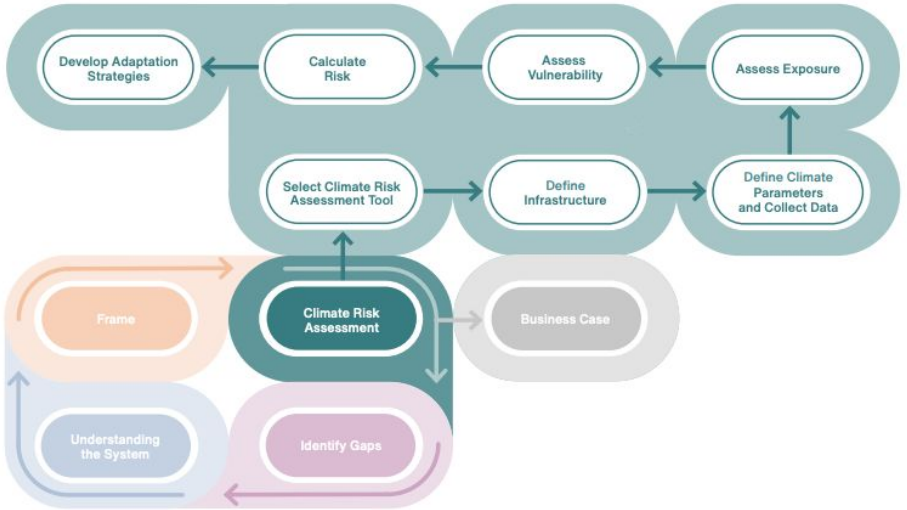
Plans at all Scales



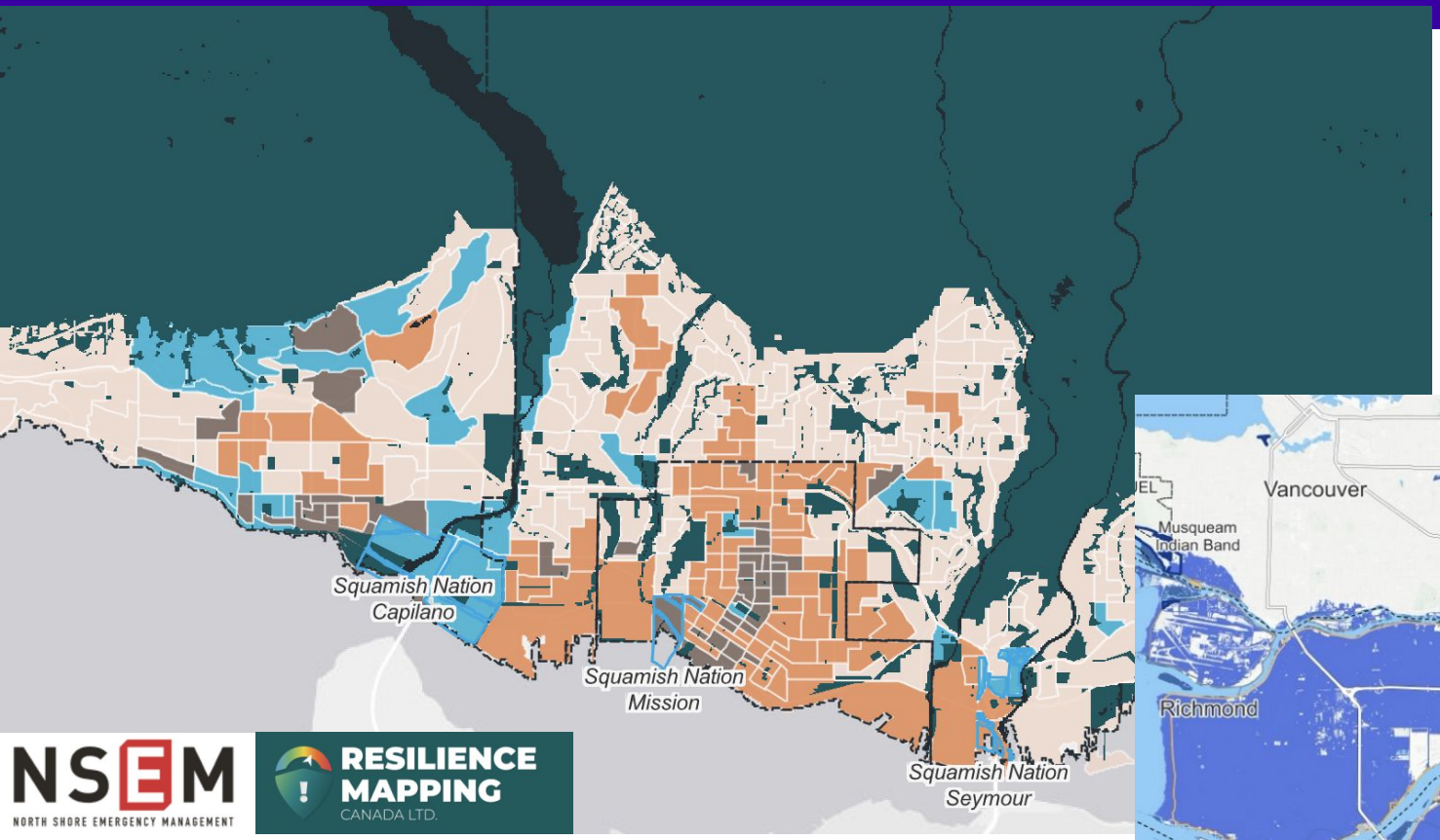


Risk Assessment



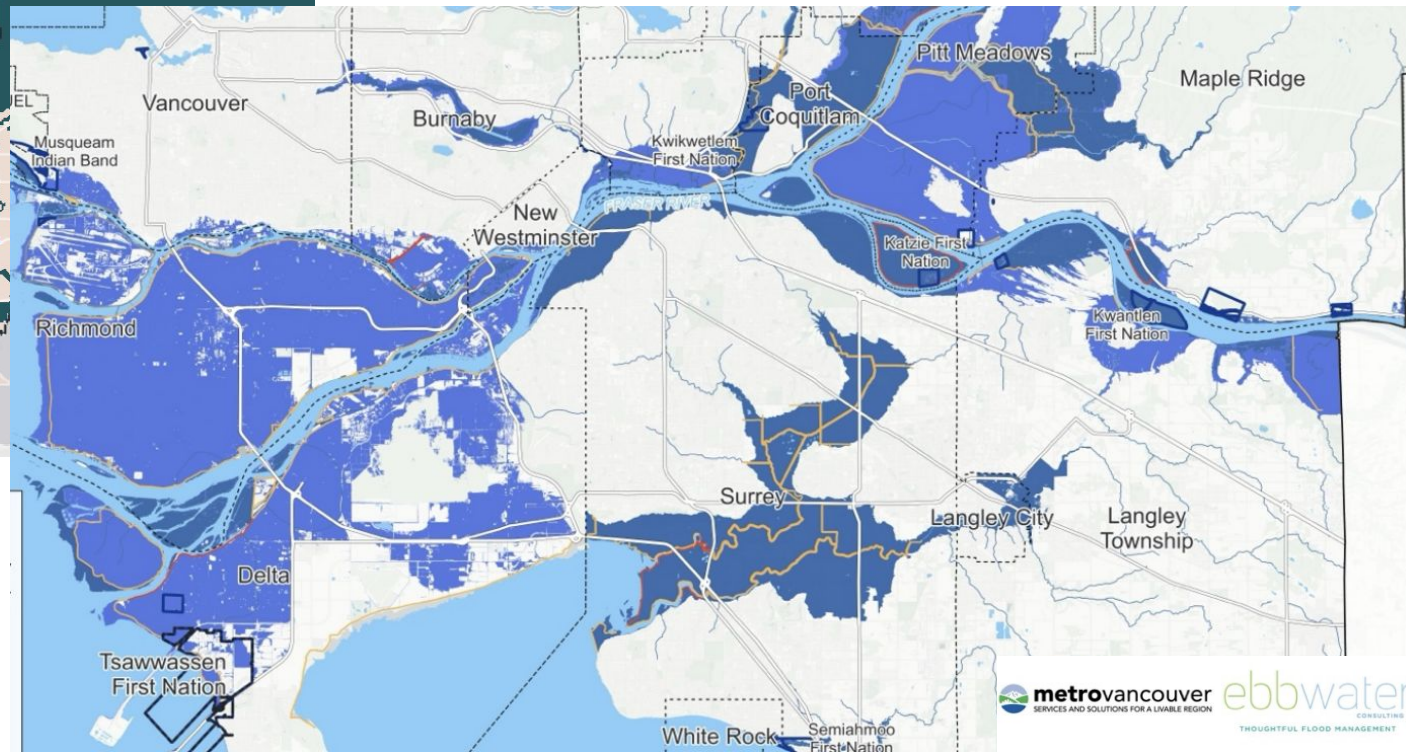


Data, Mapping and Information



NSEM
NORTH SHORE EMERGENCY MANAGEMENT

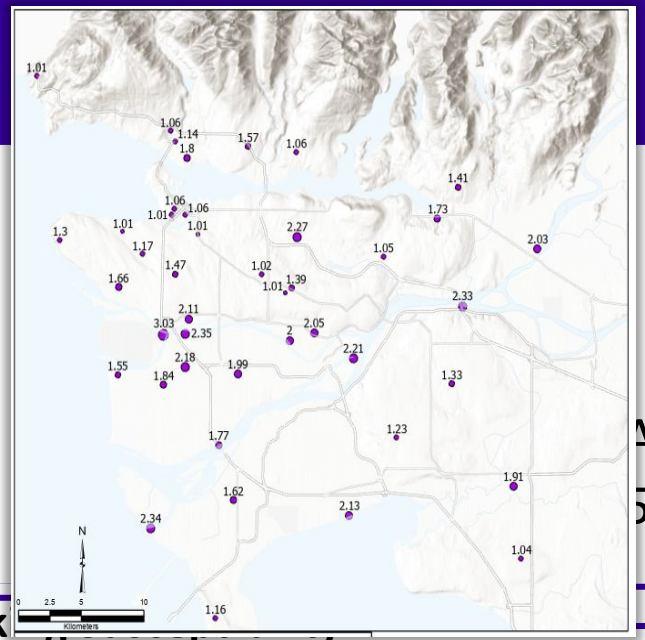
RESILIENCE MAPPING
CANADA LTD.



metrovancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION

ebbwater
CONSULTING
THOUGHTFUL FLOOD MANAGEMENT

INPUT



Amplification
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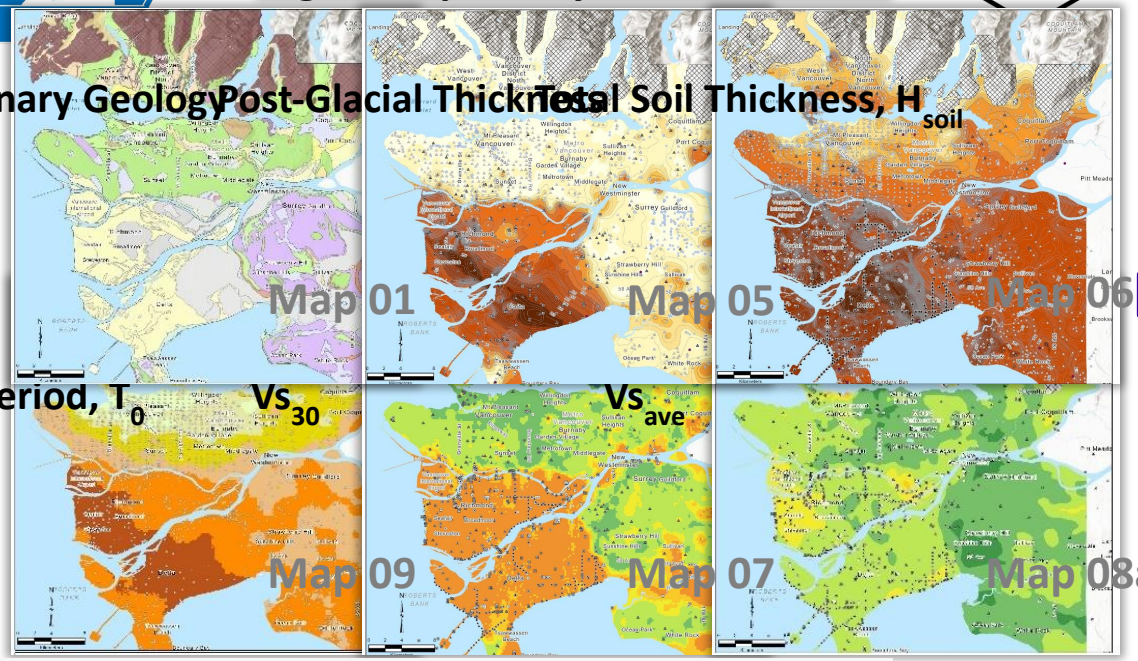
2 Shak

Quaternary Geology

Post-Glacial Thickness

Total Soil Thickness, H_{soil}



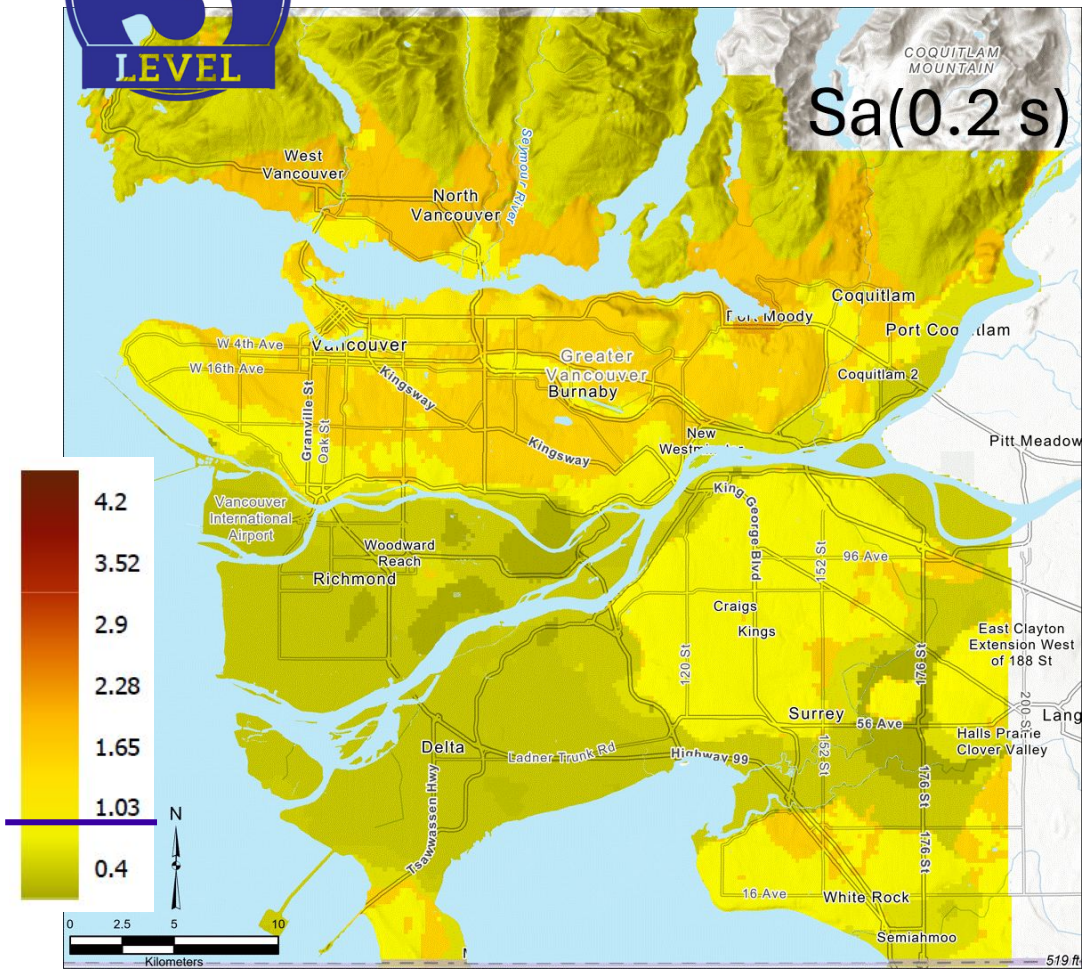
Site Period, T_0

Vs_{30}

Vs_{ave}

3 LEVEL

Amplification Hazard Mapping



Geostatistical Interpolation

MVSMMP **Maps 19, 21, 23, and 27**

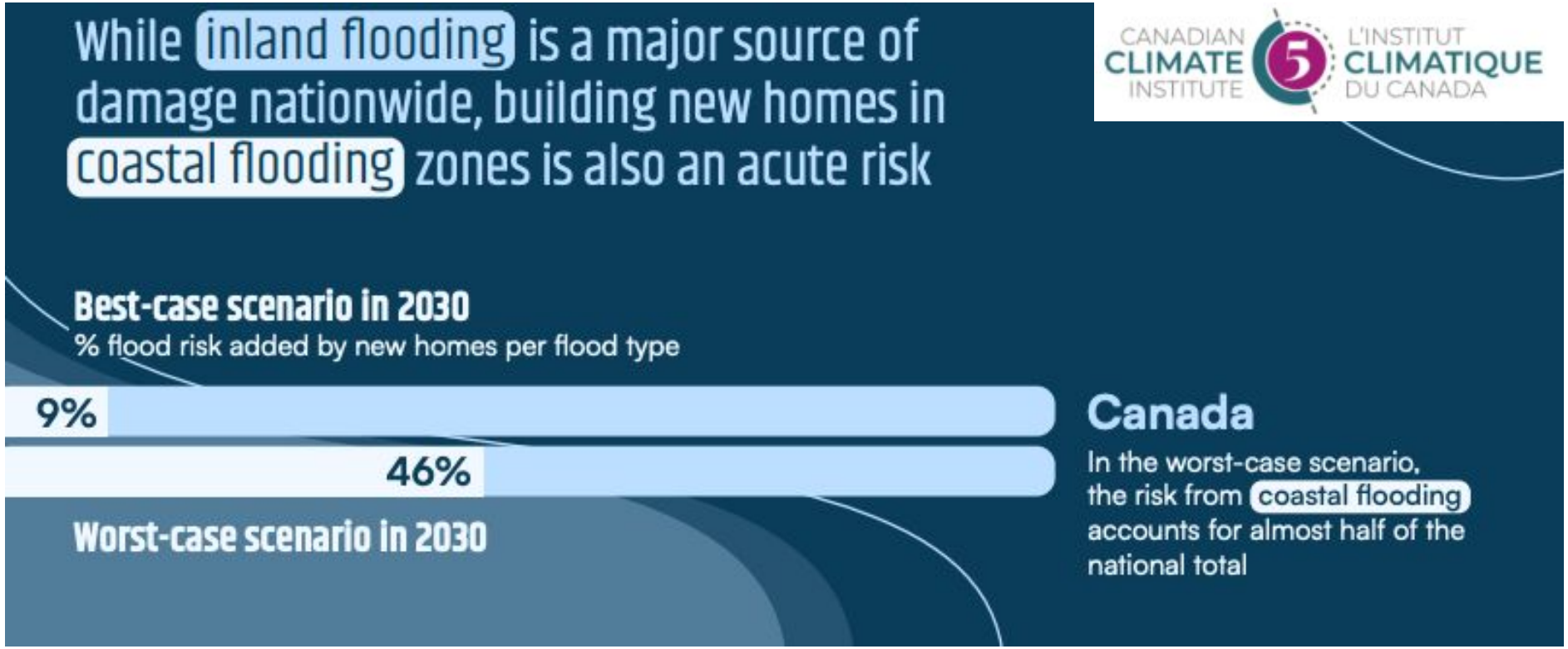
Western University · Canada

Institute for Catastrophic Loss Reduction

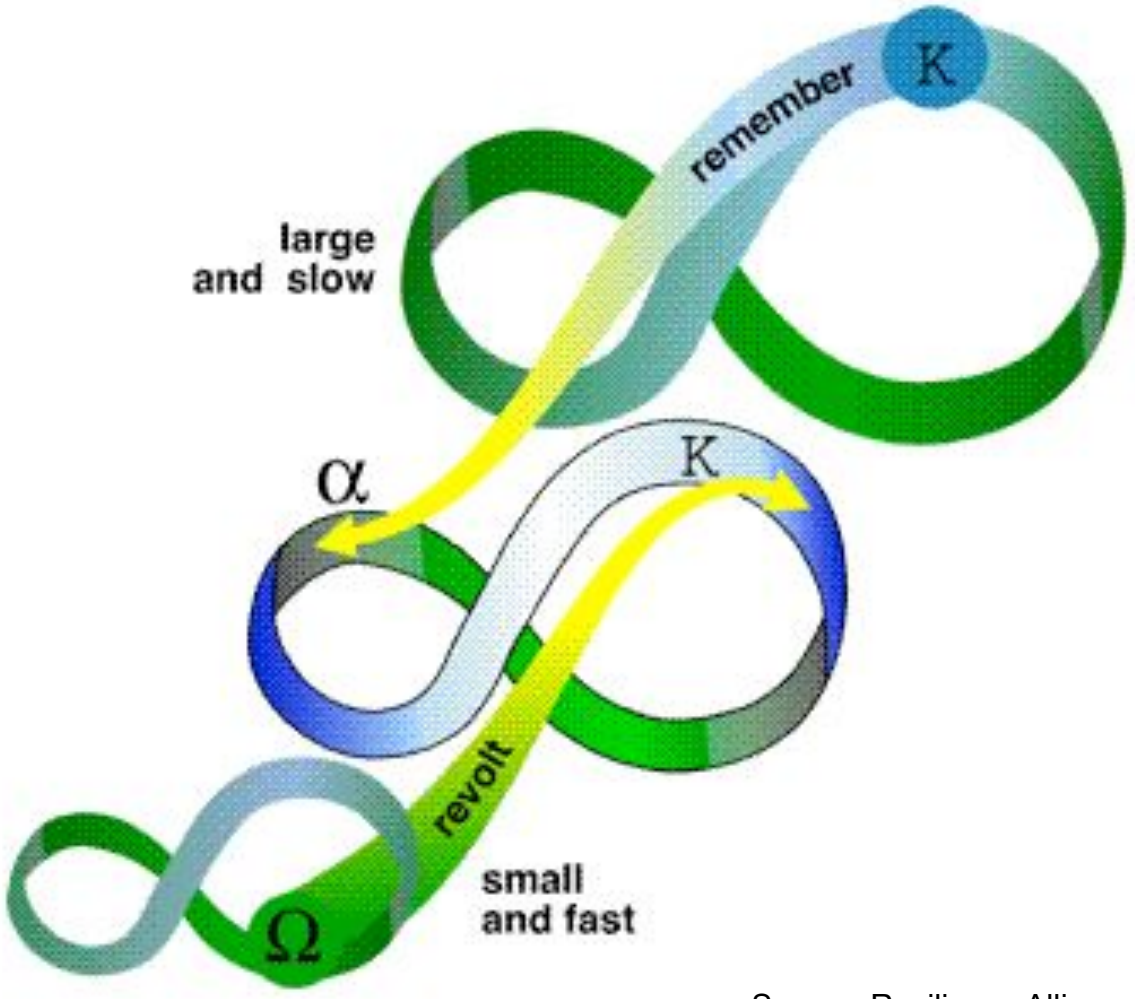
British Columbia

Ministry of Emergency Management and Climate Readiness

Tie Back to Land Use Planning



Interconnections, Relationality, Uncertainty



Source: Resilience Alliance

Upholding Indigenous Knowledge Systems

Thank you to our Sponsors!

co-operators

Understanding Risk British Columbia

UBC SAUDER SCHOOL OF BUSINESS
Centre for Climate and Business Solutions

IBC BAC Insurance Bureau of Canada / Bureau d'assurance du Canada

British Columbia Ministry of Environment and Climate Change Strategy

BGC

ZEIC ZERO EMISSIONS INNOVATION CENTRE

Pacific Institute for Climate Solutions

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