

Exploring Geographies of Opportunity for Disaster Risk Reduction





	Sunday 15					Monday 16					Tuesday 17					Wednesday 18					Thursday 19					Friday 20					Nearest													
	9AM	12PM	3PM	6PM	9PM	0AM	3AM	6AM	9AM	12PM	3PM	6PM	9PM	0AM	3AM	6AM	9AM	12PM	3PM	6PM	9PM	0AM	3AM	6AM	9AM	12PM	3PM	6PM	9PM	0AM	3AM	6AM	9AM	12PM	3PM	Victoria : 4								
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°C	6°	8°	9°	9°	8°	7°	7°	7°	7°	8°	8°	8°	8°	8°	8°	7°	7°	9°	9°	8°	7°	7°	7°	6°	7°	8°	8°	9°	8°	7°	6°	6°	8°	10°	11°	11°	10°	8°	8°	7°	8°	10°	10°	9°C /
mm						0.7	0.9	0.9	1.3	1.3	2.8	3.4	2.7	0.9	3.5	1.1			0.2					2	1.4	0.2										0.2							8°C /	
kt	5	6	9	10	5	8	11	10	7	7	7	5	5	18	20	22	21	19	17	15	12	9	5	6	9	7	7	4	3	6	4	2	3	6	7	12	11	11	8	6	6	5	5	CWPF: 8
kt	10	11	14	16	15	12	16	17	14	13	12	11	10	26	29	33	34	33	30	27	23	18	13	11	13	14	12	12	8	9	8	6	6	10	13	18	18	17	16	11	8	10	9	9°C /
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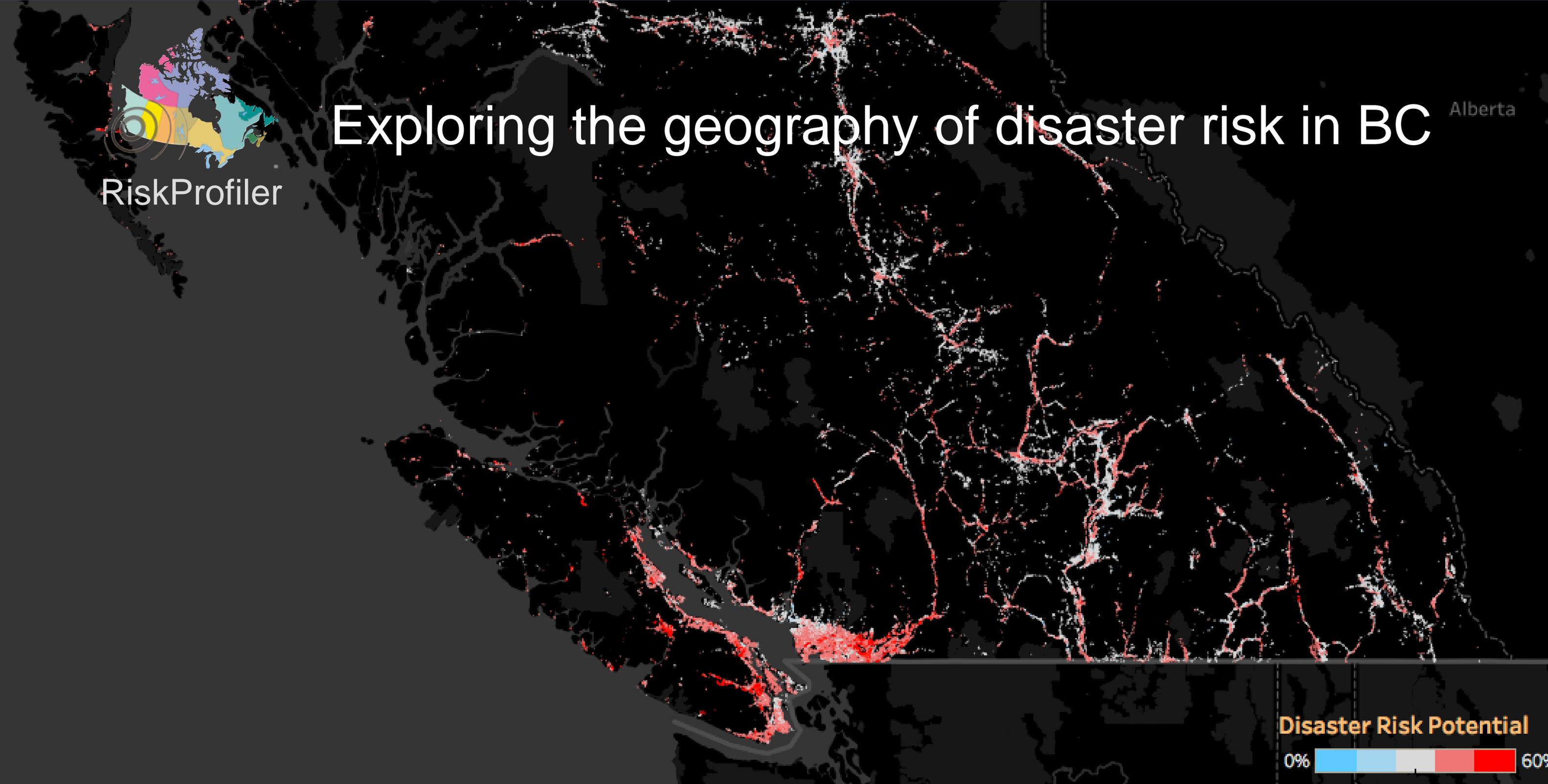


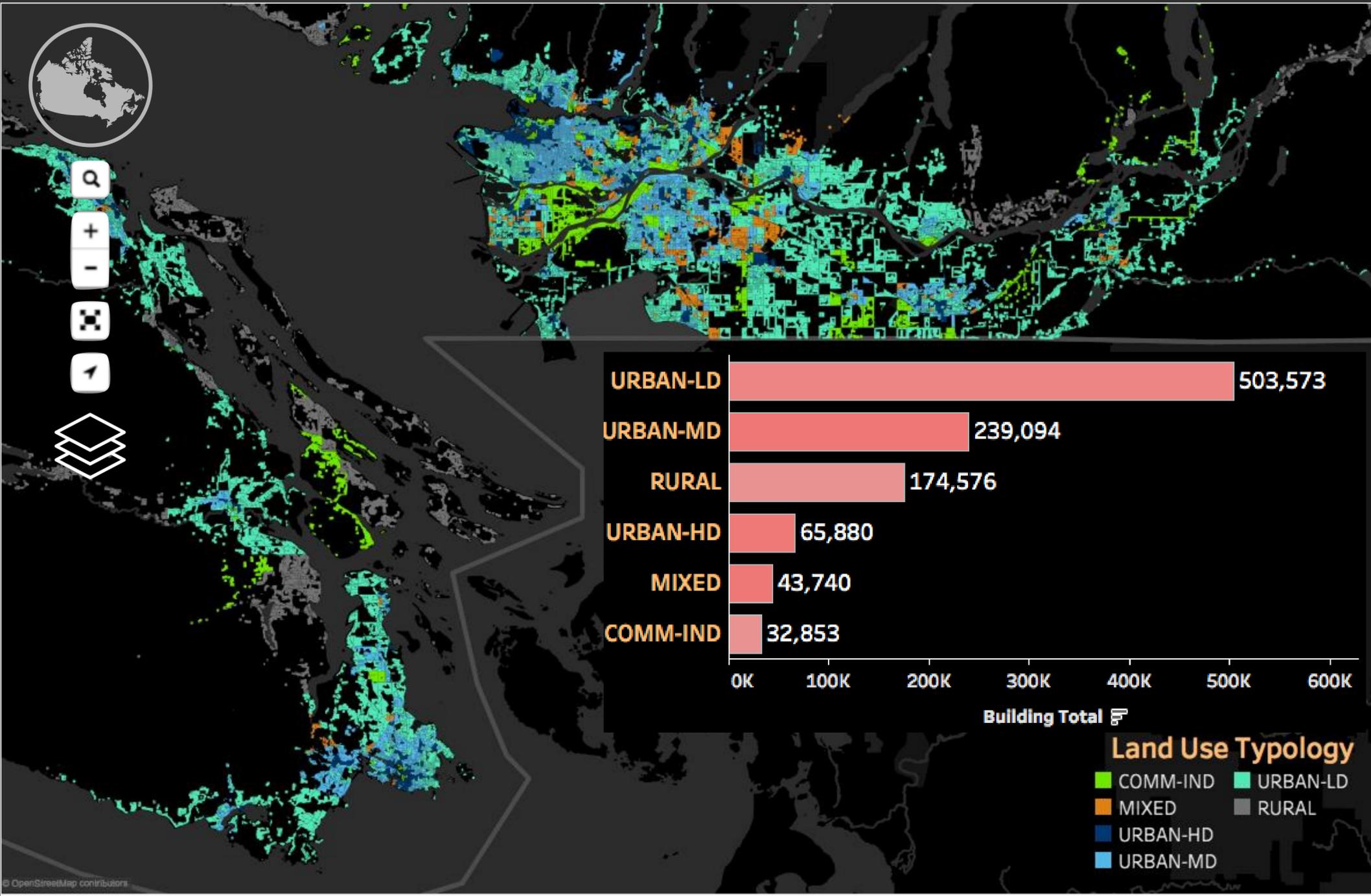
CC



Exploring the geography of disaster risk in BC

Alberta





RiskScope
Hazard
People
Buildings

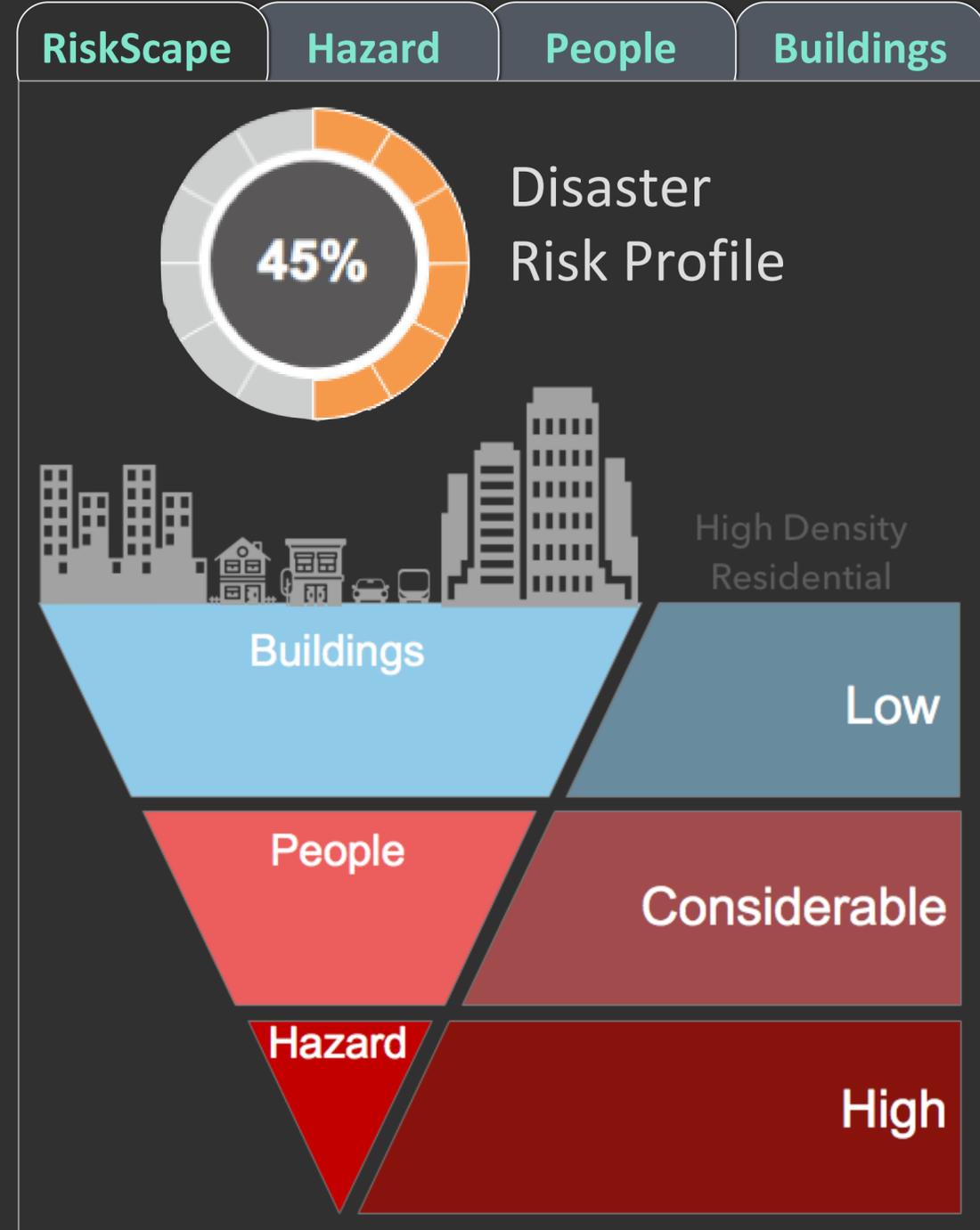
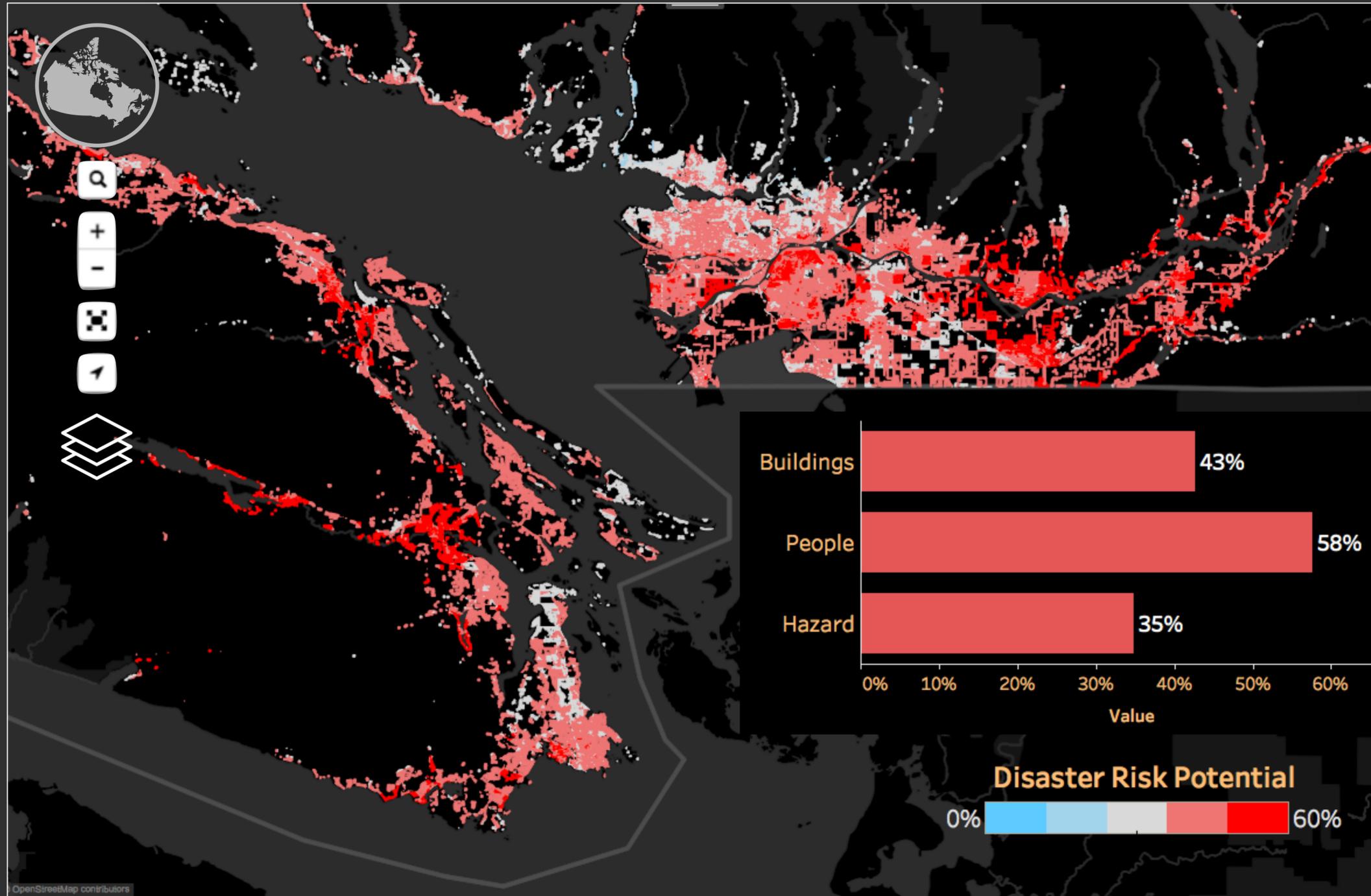
Comm-Ind

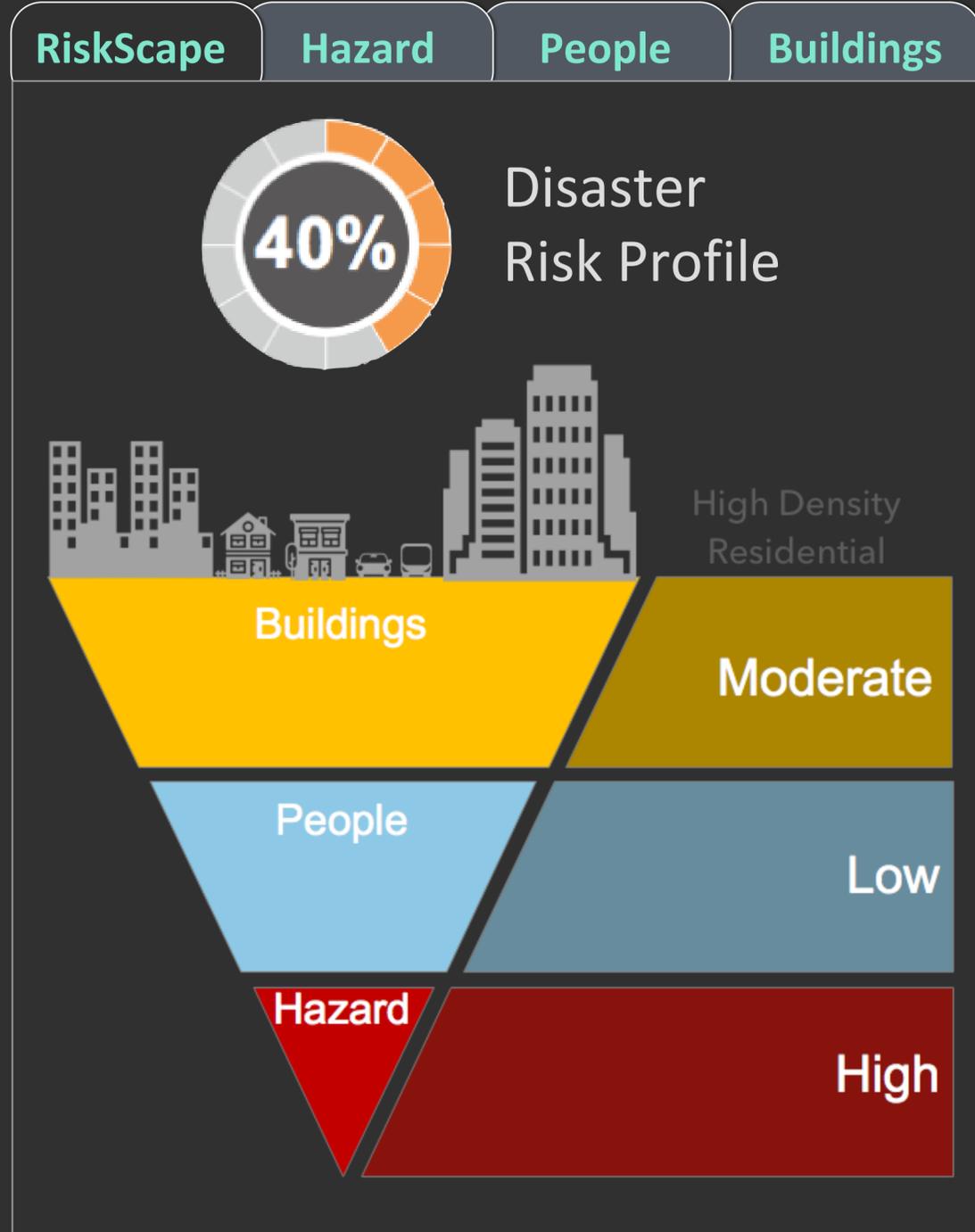
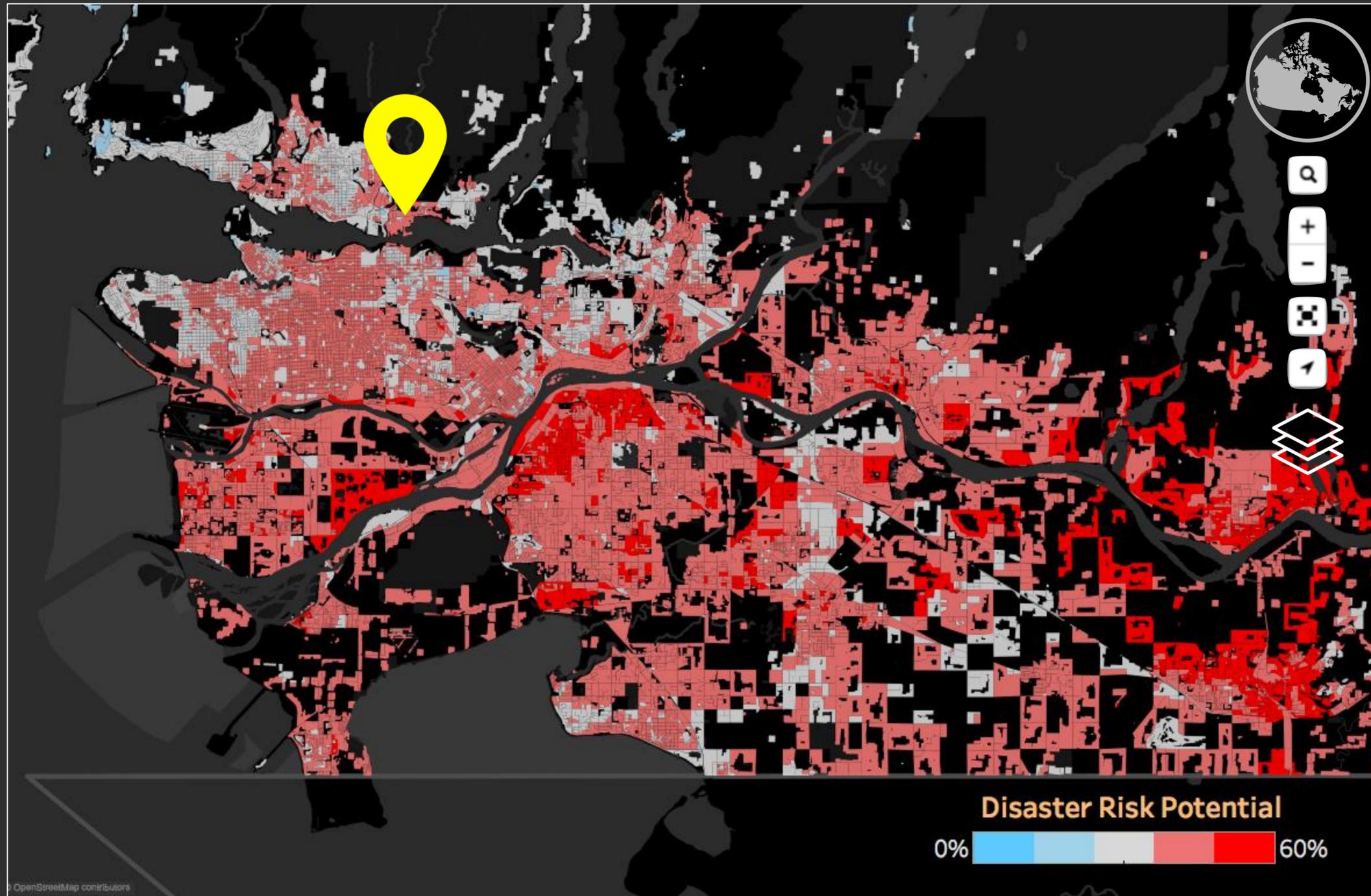
Res-HD

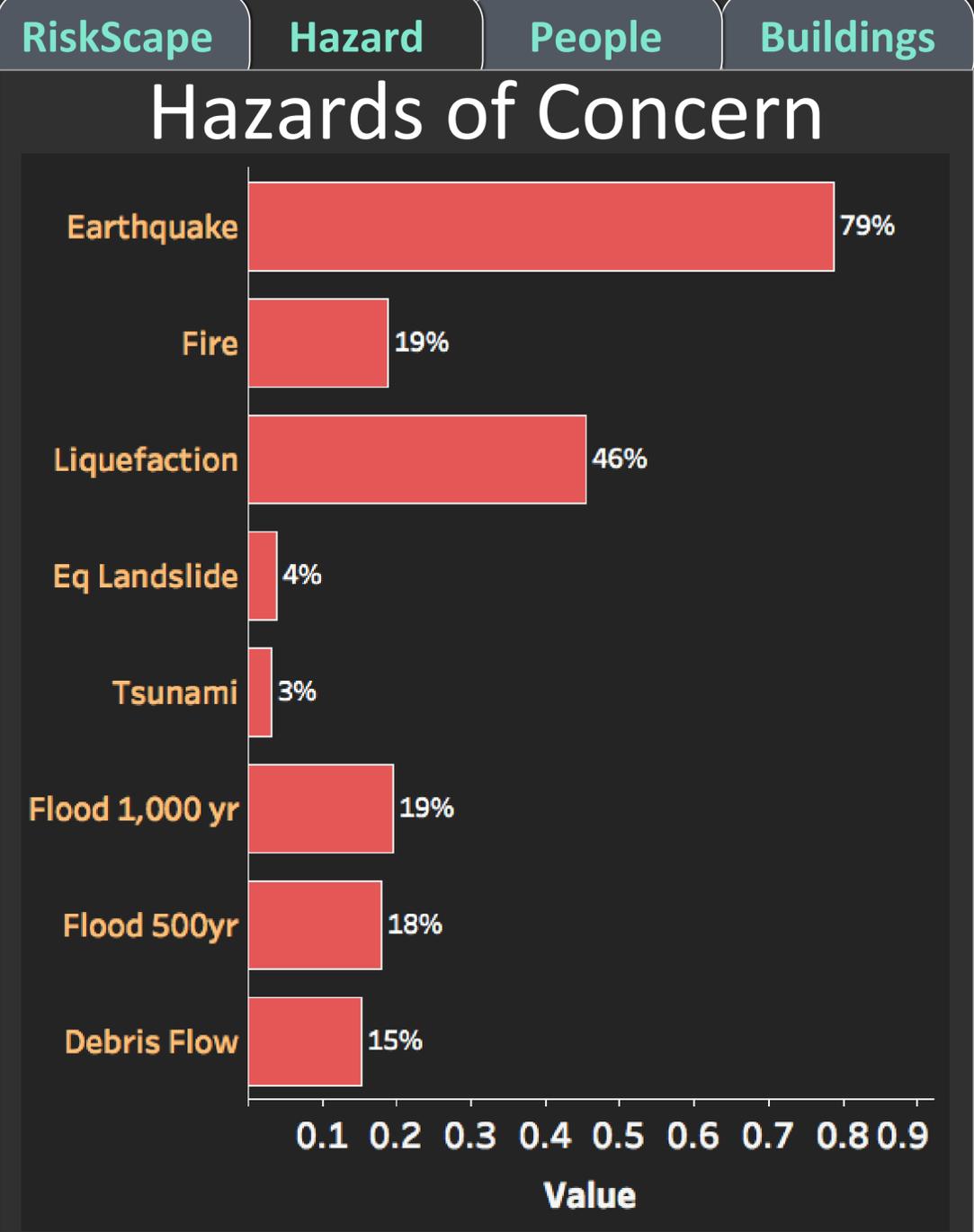
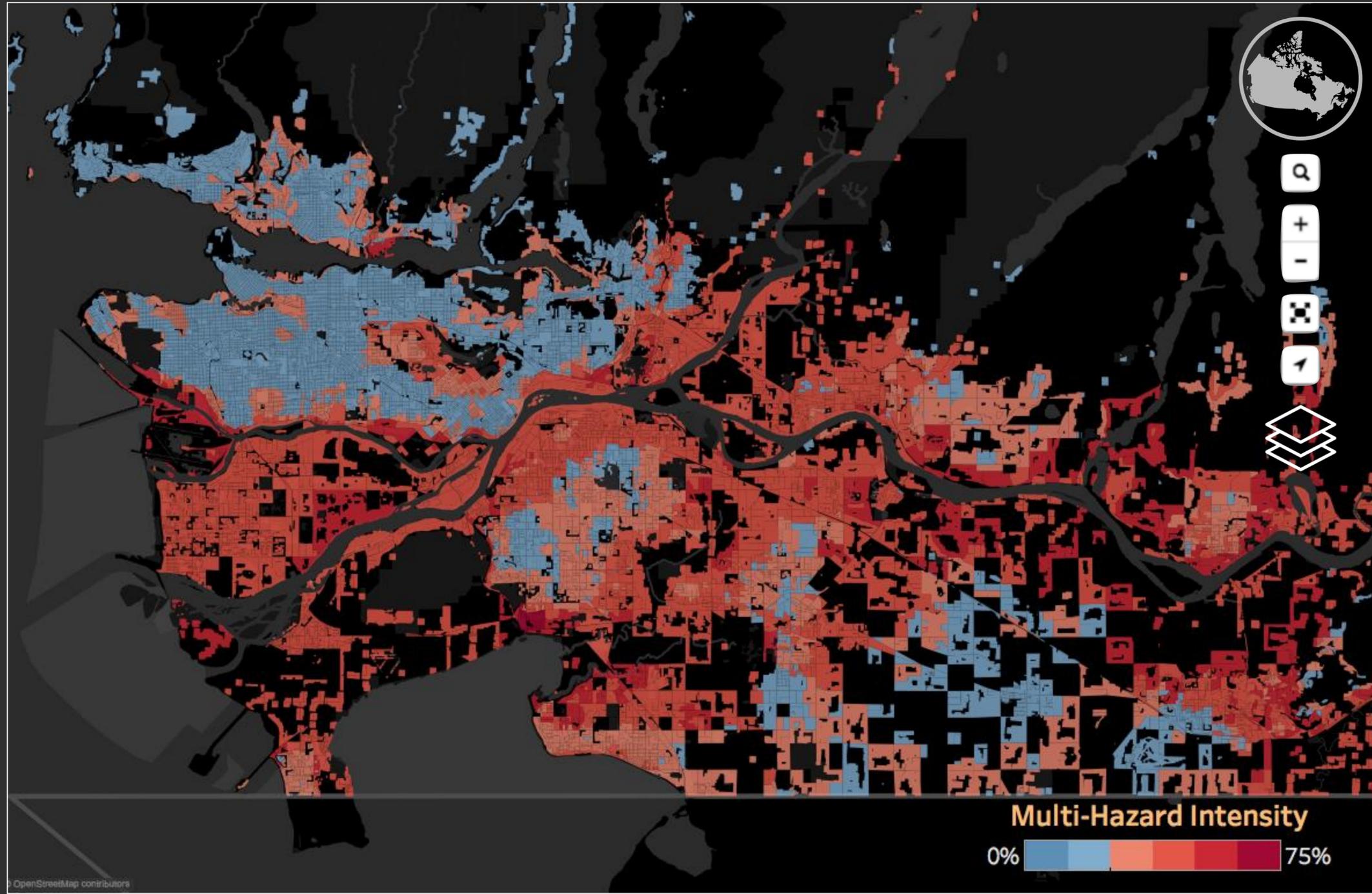
Res-MD

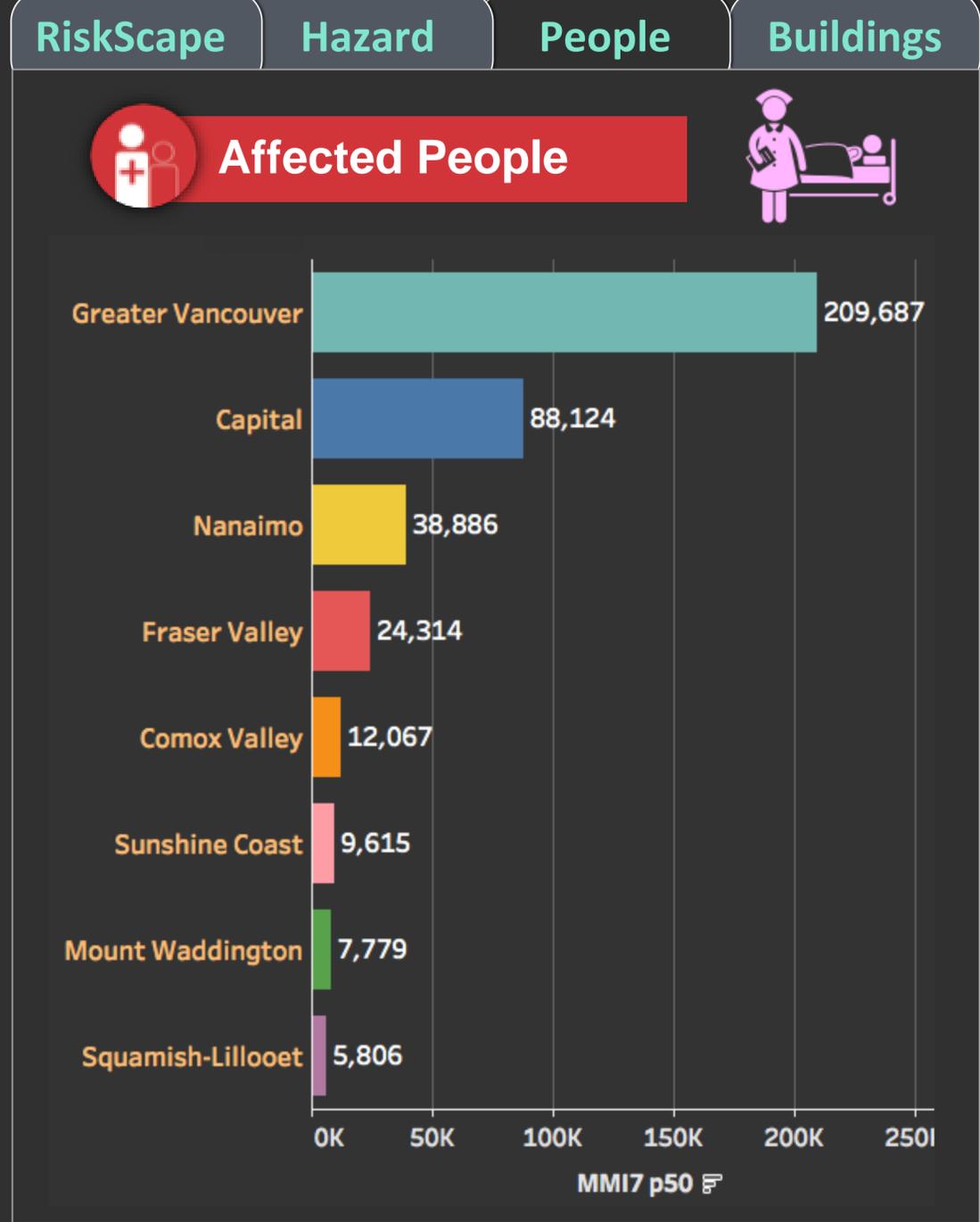
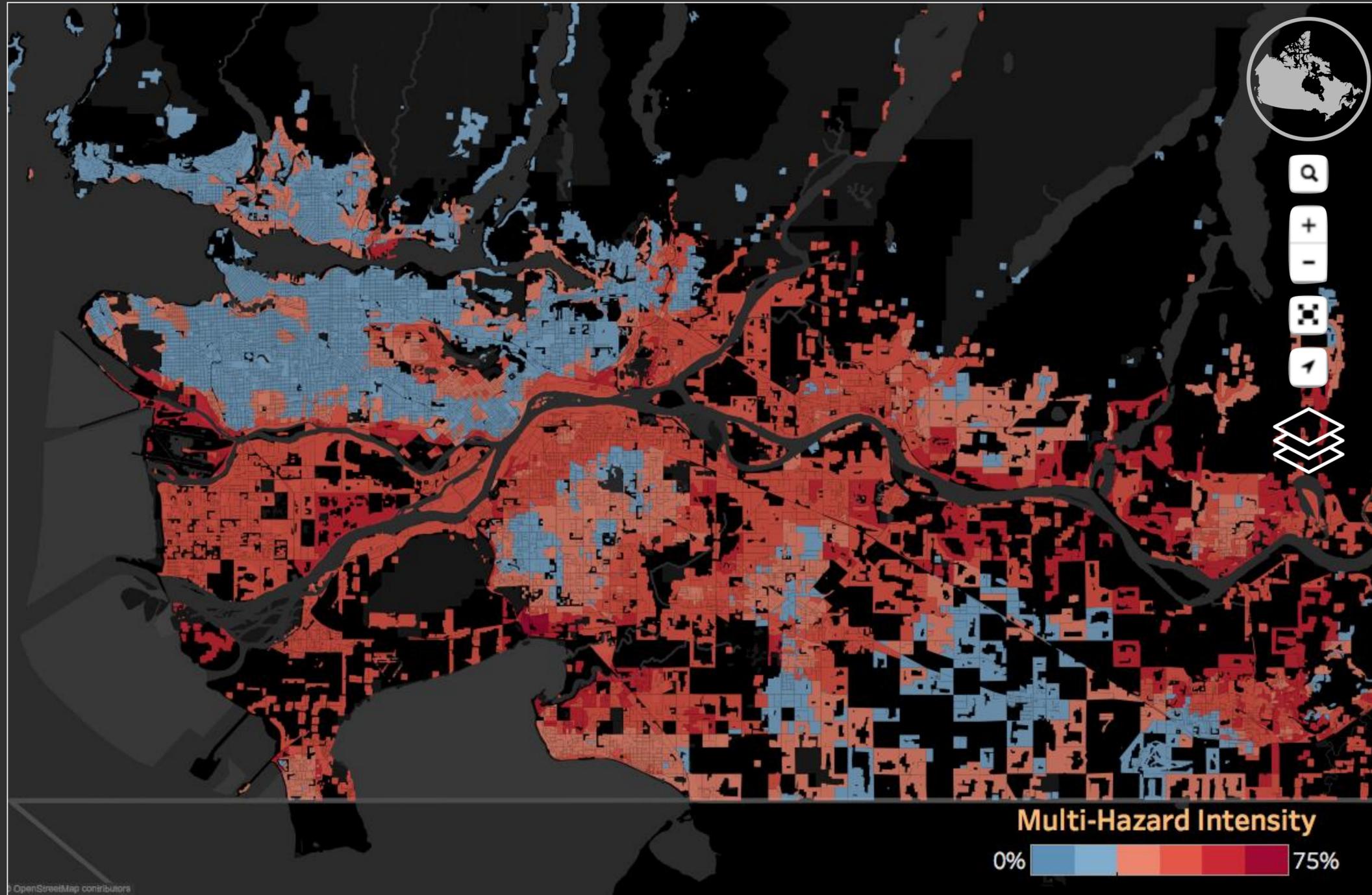
Res-LD

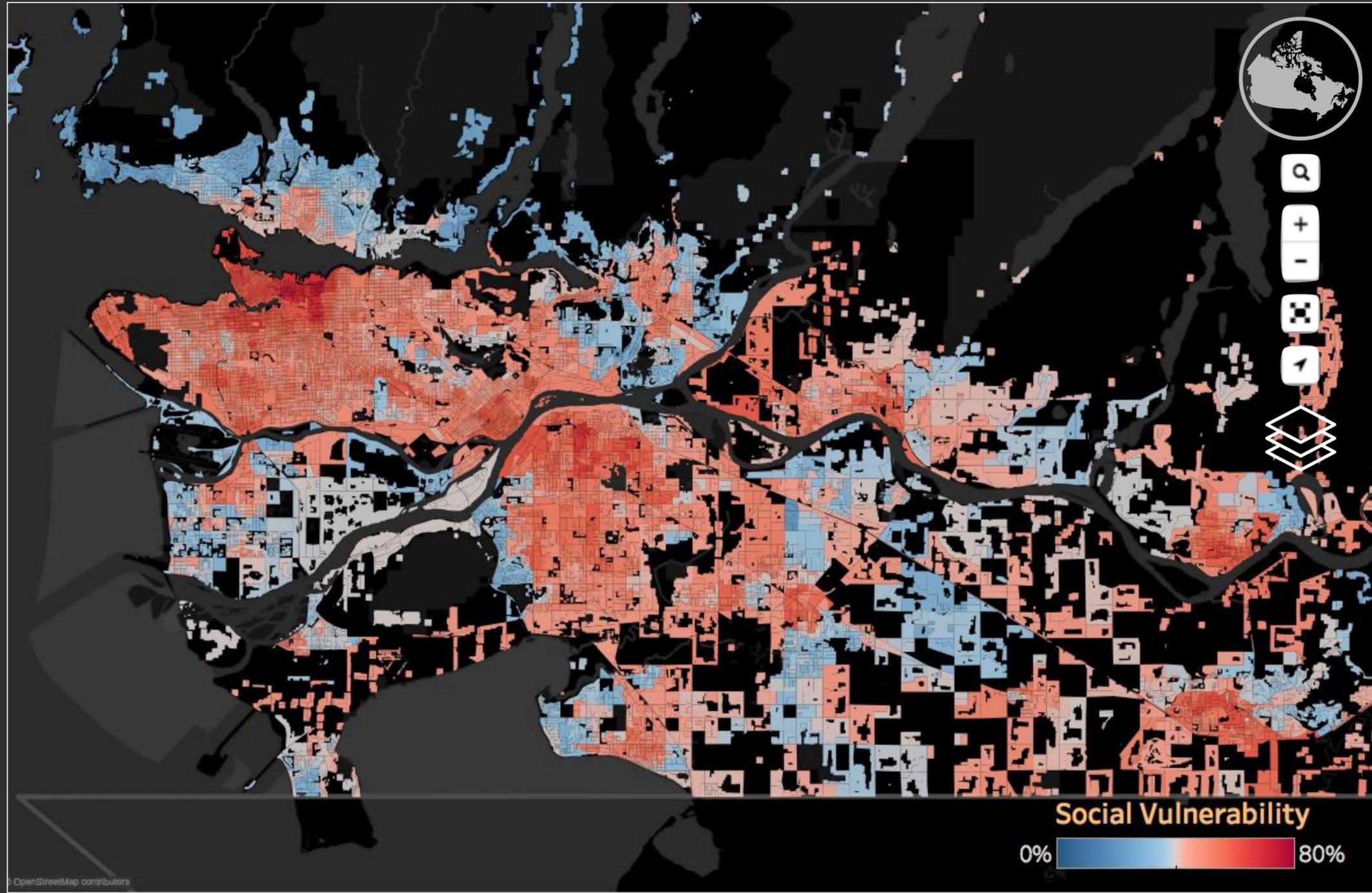
Rural











RiskScope

Hazard

People

Buildings

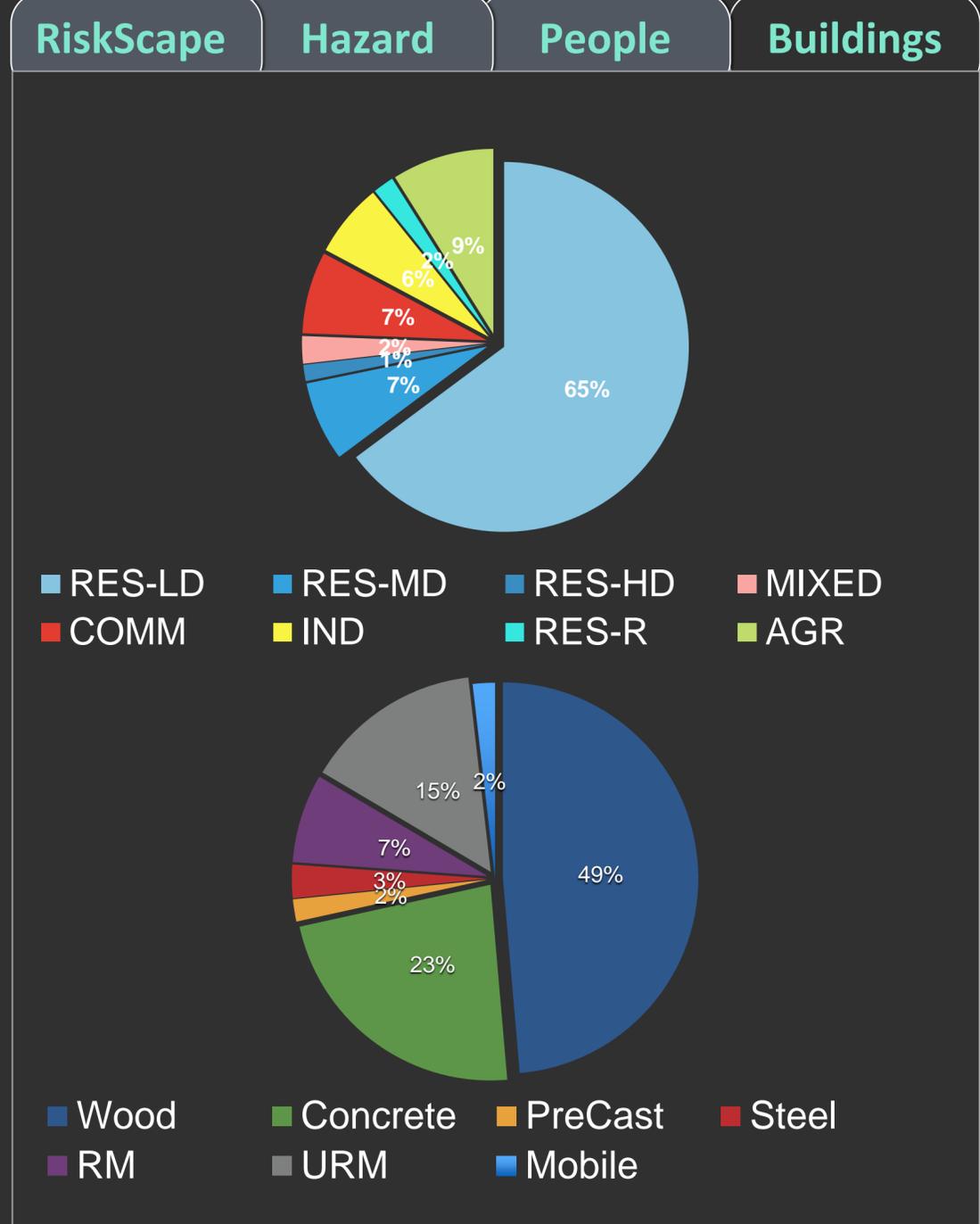
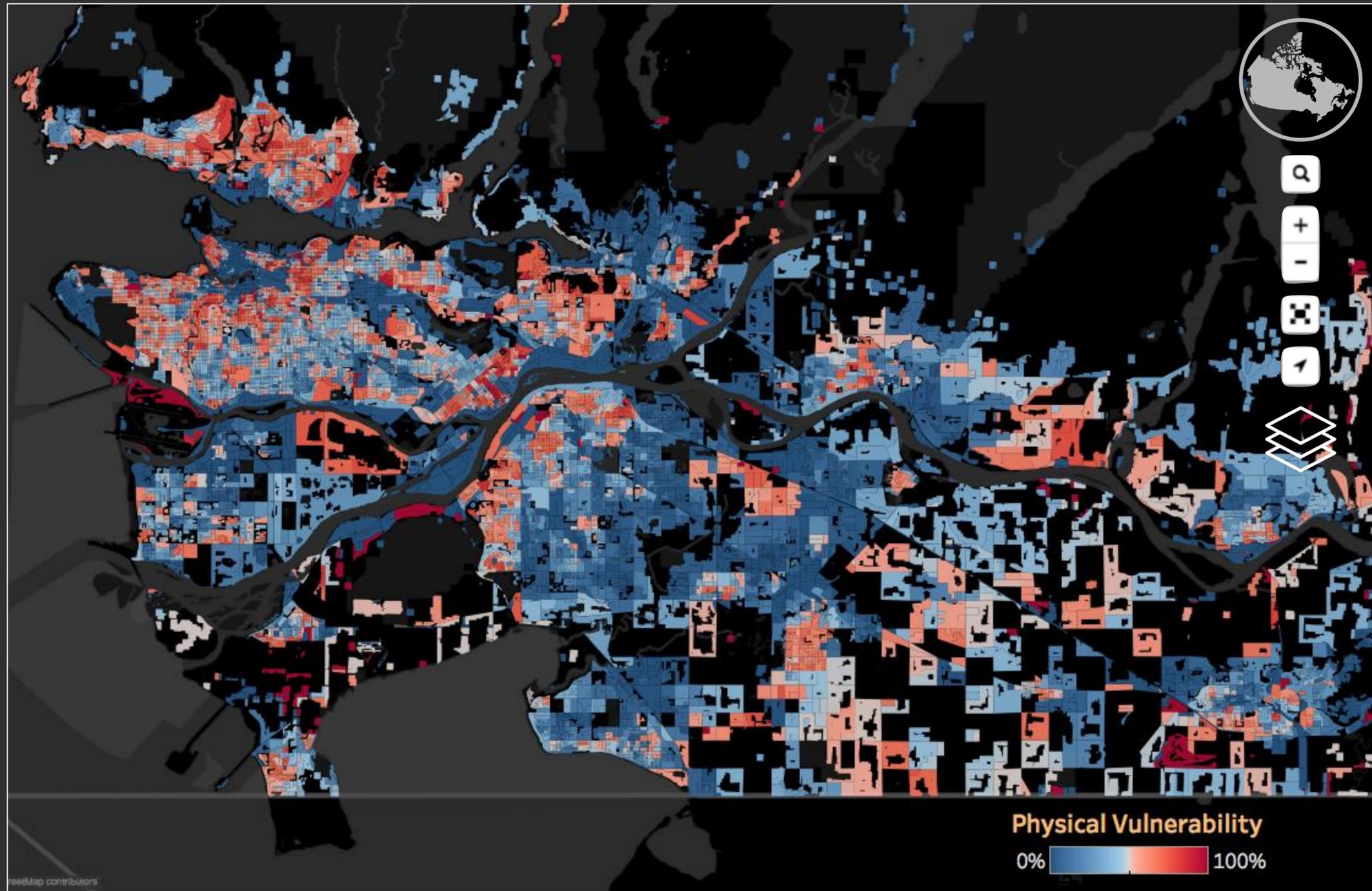


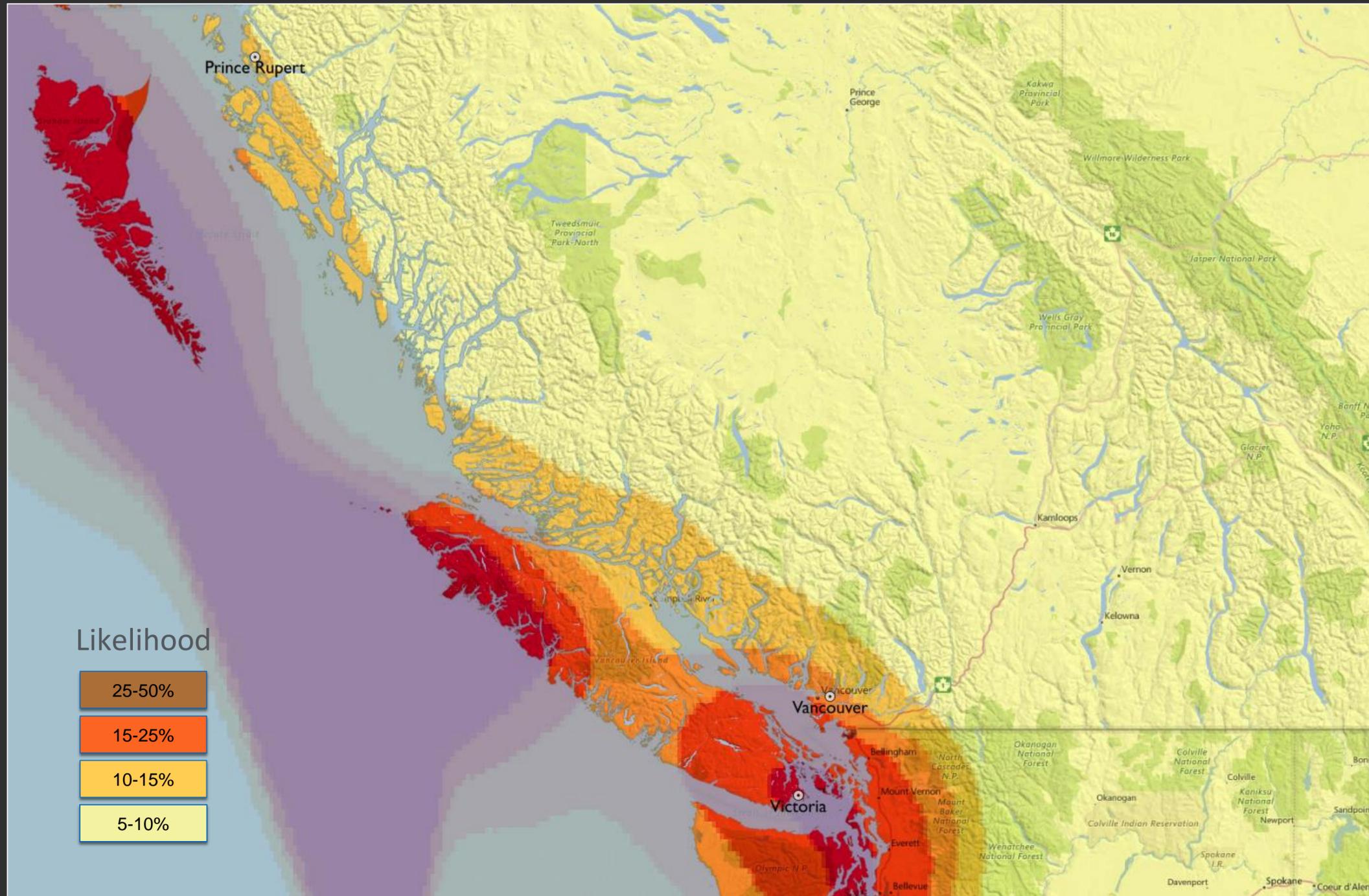
Determinants of Risk

Social Conditions: intrinsic characteristics of individuals & families that influence capacities to withstand, and recover from a disaster event

Economic Vitality: income and employment variables that influence financial resilience

Community Health: prevalence of illness, injury and chronic disease in the community and access to medical care and emergency services

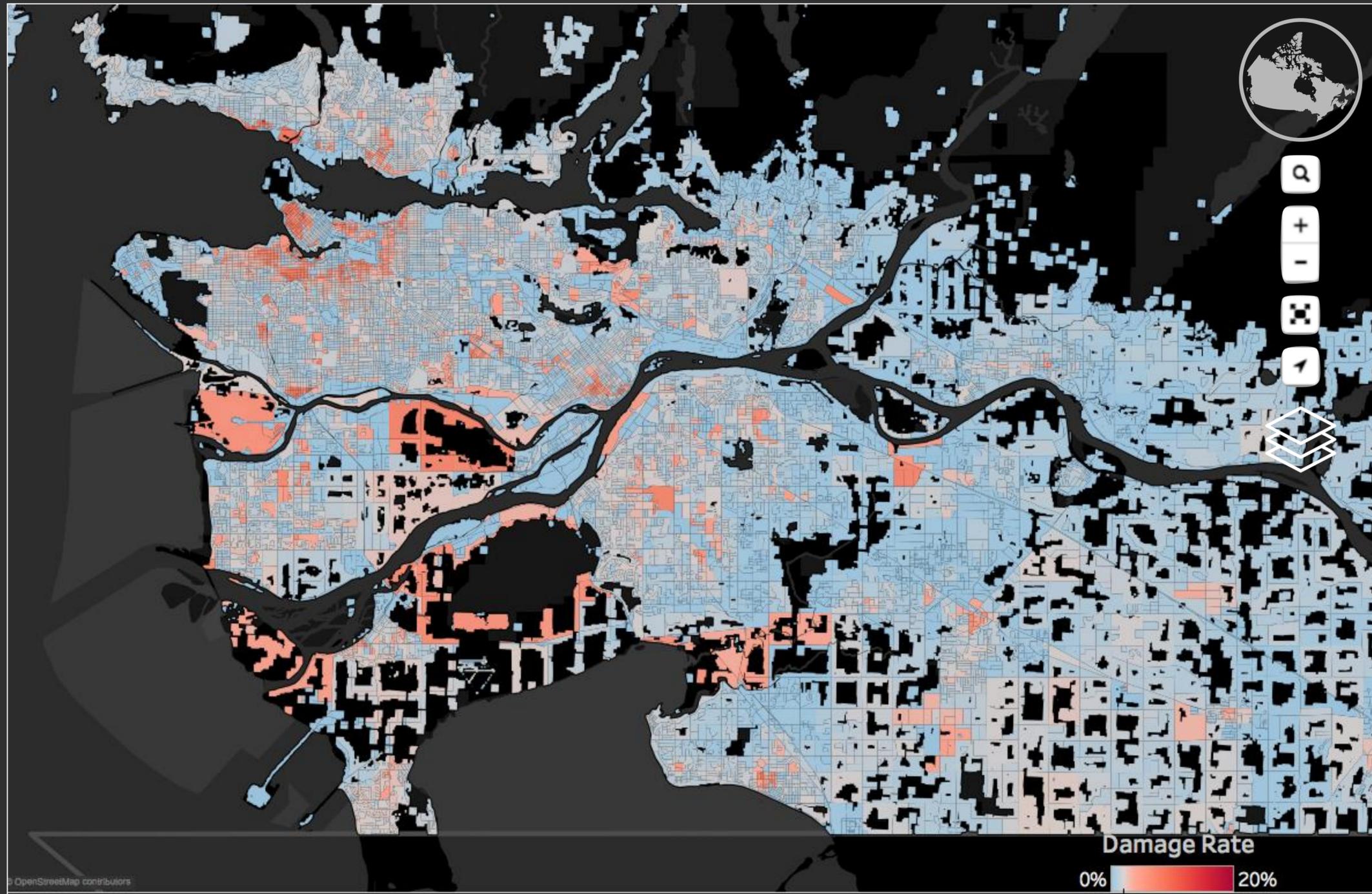




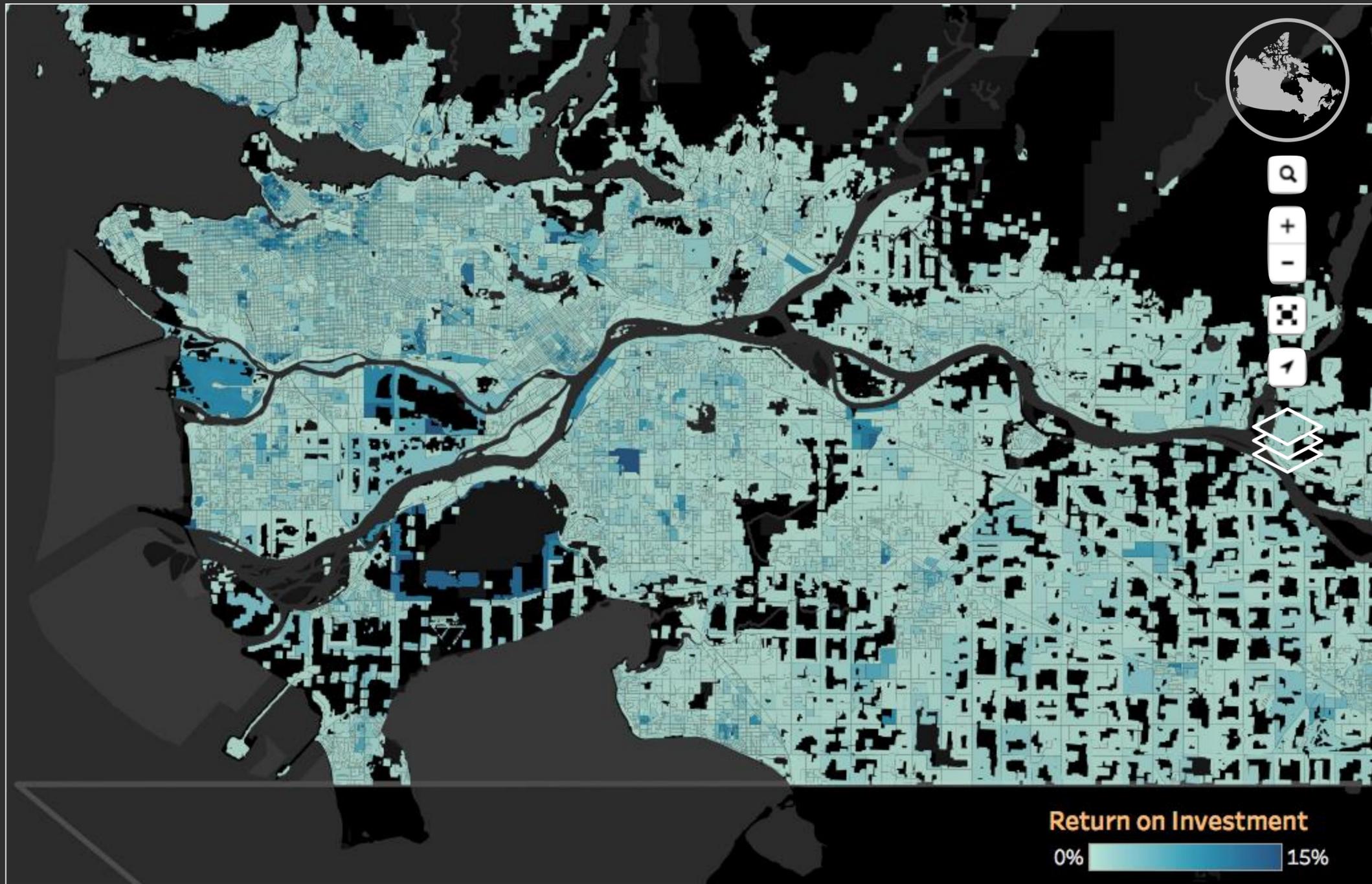
Likelihood

- 25-50%
- 15-25%
- 10-15%
- 5-10%

Hazard	Exposure	Consequence	Action
Hazard Threat			
MMI Modified Mercali Index			
	Intensity	Shaking	Physical Impacts
	V	Moderate	Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.
	VI	Strong	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
	VII	Very strong	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.



Hazard	Exposure	Consequence	Action
Building Performance			
Bldg Class (gr..	Eq Des L..		
Concrete	PC	10.8%	
	LC	13.5%	
	MC	1.3%	
	HC	0.2%	
Manufactured & Wood	PC	5.0%	
	LC	2.0%	
	MC	0.4%	
	HC	0.2%	
Precast	PC	6.7%	
	LC	4.8%	
	MC	0.6%	
	HC	0.1%	
RMasonry & URMasonry	PC	3.2%	
	LC	2.6%	
	MC	1.0%	
	HC	0.0%	
Steel	PC	19.5%	
	LC	18.1%	
	MC	2.2%	
	HC	0.3%	



Hazard	Exposure	Consequence	Action
<div style="background-color: #4CAF50; color: white; padding: 5px; display: inline-block;"> \$ Risk Reduction </div>			
Bldg Clas..	Bldg Code		
Concrete	AAL	\$17.5M	\$4.4M
	AAL	\$20.0M	\$0.0M
Manufactured & Wood	AAL	\$5.8M	\$2.7M
	AAL	\$10.0M	\$0.0M
Steel	AAL	\$1.0M	\$0.3M
	AAL	\$20.0M	\$0.0M
Precast	AAL	\$0.9M	\$0.3M
	AAL	\$10.0M	\$0.0M
RMasonry & URMasonry	AAL	\$0.7M	\$0.3M
	AAL	\$20.0M	\$0.0M
		Pre Code	Low Code

empowering risk reduction decisions



Economic
Security

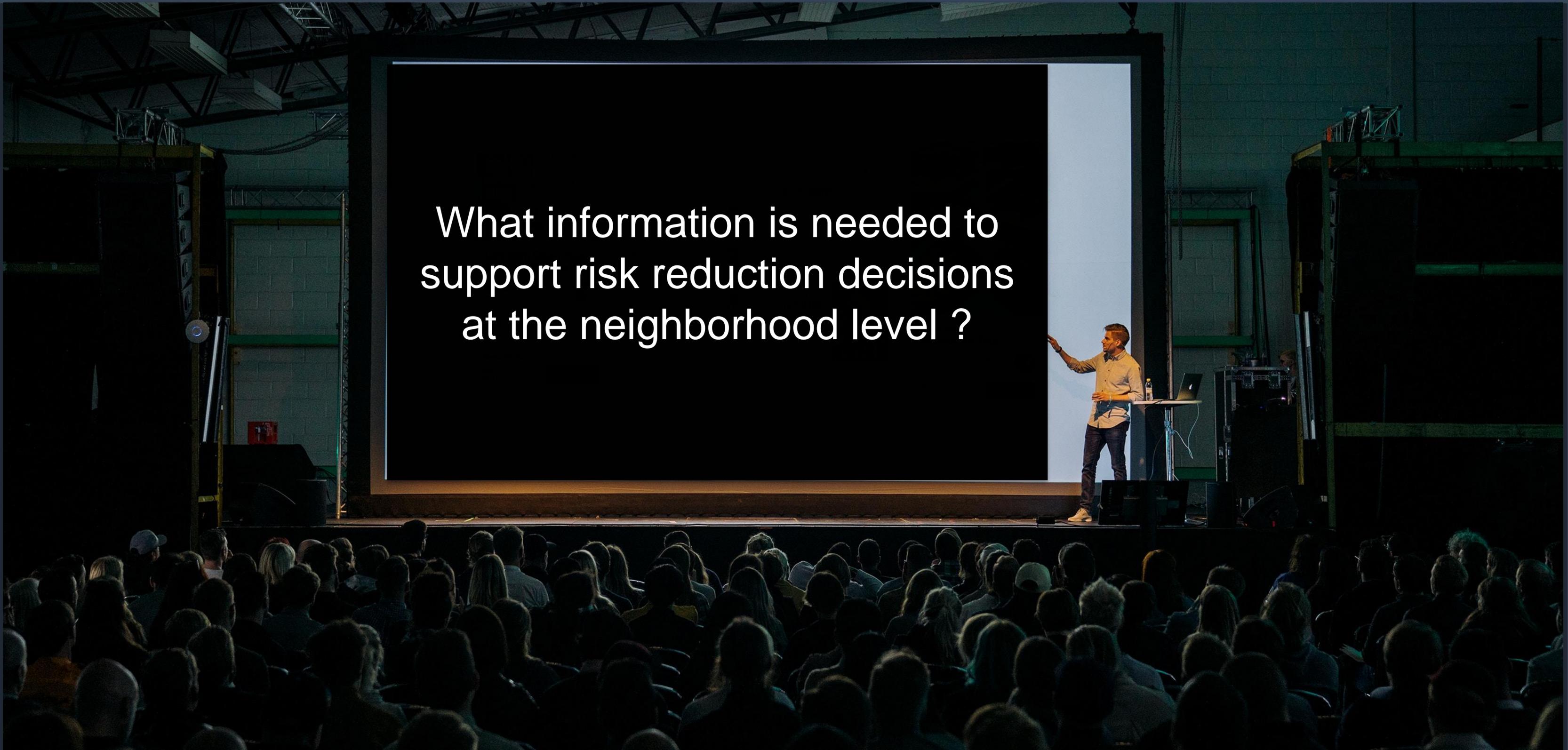
empowering risk reduction decisions



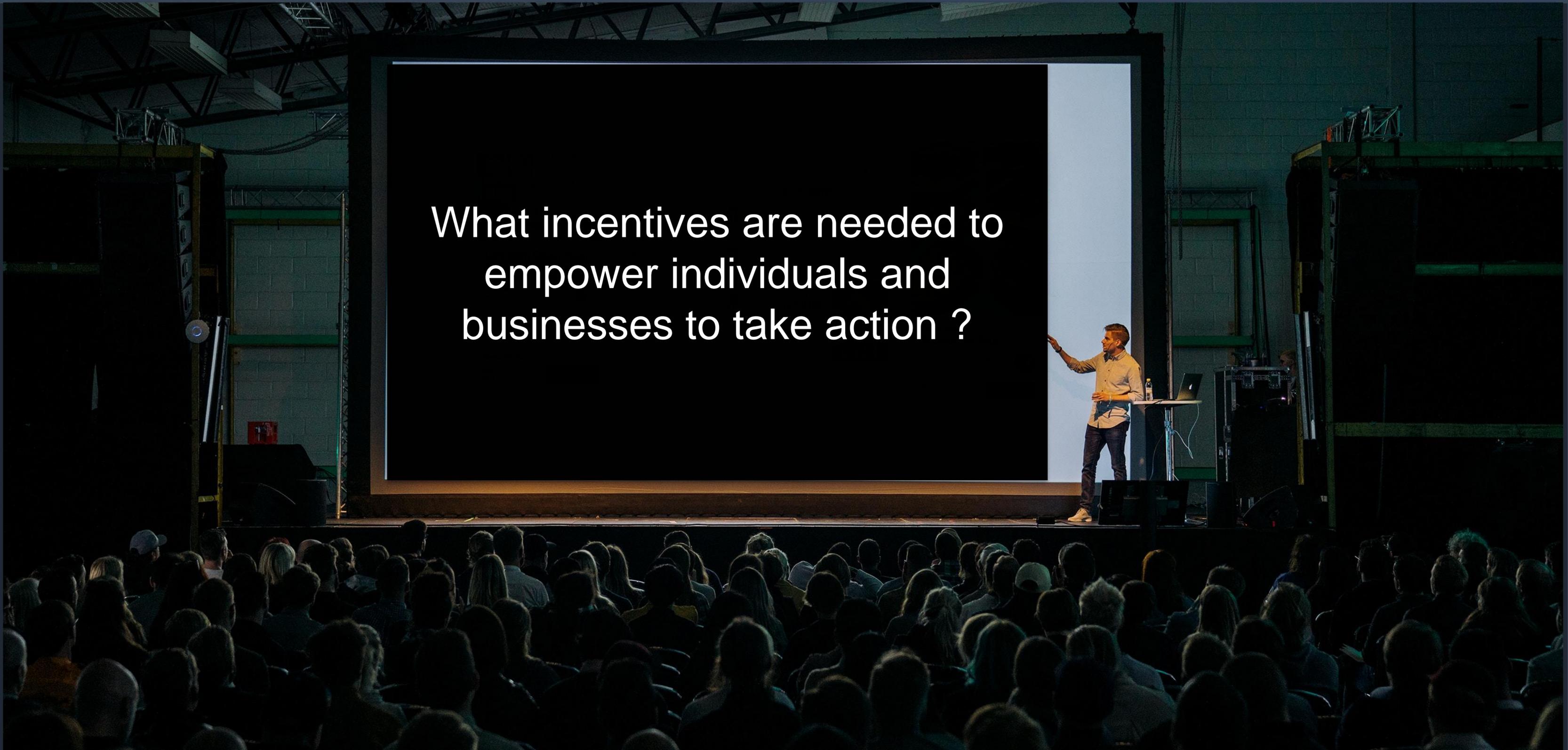
Exploring Geographies of Opportunity

Saanich Room
1:30-3:00PM



A photograph of a speaker on a stage pointing to a large projection screen. The screen displays the text: "What information is needed to support risk reduction decisions at the neighborhood level?". The speaker is standing on the right side of the stage, gesturing towards the screen. The audience is visible in the foreground, seated and facing the stage. The setting appears to be a large, industrial-style room with a high ceiling and exposed structural elements.

What information is needed to support risk reduction decisions at the neighborhood level ?

A man in a light-colored shirt and dark pants stands on a stage, pointing towards a large projection screen. The screen displays the text "What incentives are needed to empower individuals and businesses to take action?". The audience is visible in the foreground, seated and facing the stage. The setting appears to be a large, industrial-style room with high ceilings and exposed structural elements.

What incentives are needed to
empower individuals and
businesses to take action ?

Welcome to

2018 **UR⁺** Understanding Risk
in the built environment

British Columbia

April 16-17th, 2018

#URBC

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