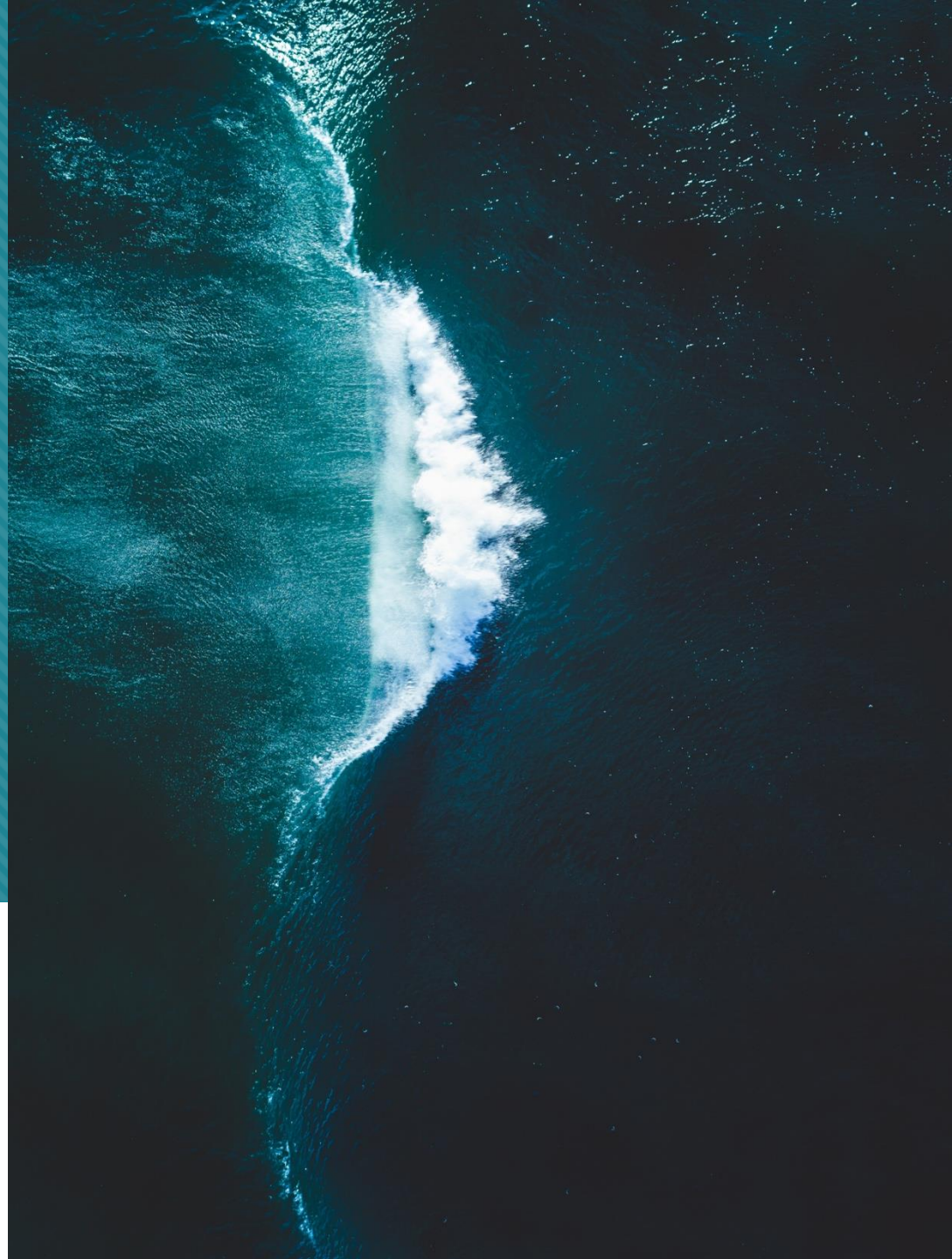


LOCAL PLANNING FOR CLIMATE INDUCED RELOCATION IN CANADA

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AGENDA

01 Research Problem

02 Research Gap & Purpose

03 Research Methods

04 Systematic Literature Review Results

05 Plan Content Analysis Results

06 Key Actor Interview Results

07 Local Adaptation Enablers and Barriers

08 Conclusion

RESEARCH PROBLEM

- Climate impacts are creating dangerous and uninhabitable conditions (3)
- Short term structural adaptations are no longer able to cope with the frequency and severity of climate impacts
- Relocation may be the only effective long- term adaptation strategy for reducing climate vulnerability (1,4)



RESEARCH GAP & PURPOSE

- Literature on relocation has exploded in the last two decades (2)
- Local governments are often ill-prepared to effectively plan for and implement relocation in practice (6,5)
- **Purpose:** To better understand how local governments in Canada plan for relocation in the face of worsening climate impacts

RESEARCH METHODS

1. **Systematic literature review** (n=192)
 - What literature exists on local planning for relocation, what are the gaps?
2. **Plan content analysis** (n=69)
 - How do planning and policy tools integrate and influence relocation?
3. **Semi-structured interviews** (n=35)
 - How do planners and decision makers perceive relocation?



RESULTS: SYSTEMATIC LITERATURE REVIEW

- Literature on relocation has grown rapidly over the last two decades:
 - Relocation outcomes
 - Implementation tools
 - Enablers and barriers
 - Resident perceptions
- Lacking a detailed and comprehensive breakdown of planning for relocation




Level of Government	Text Analyzed	Goals and Guiding Vision (/6)	Policies that facilitate and/or constrain relocation (/26)	Implementation (/4 or /8)	TOTAL SCORE /36 or /40
Government of Canada	Government of Canada Adaptation Action Plan (2024 Update)	6	20	4	30
	Canada's National Adaptation Strategy	5	21	4	30
	Emergency Management Strategy for Canada Toward a Resilient 2030	6	21	4	31
Government of British Columbia	Climate Preparedness and Adaptation Strategy: Actions for 2022-2025	6	22	4	32
	Preparing for Climate Change: An Implementation Guide for Local Governments in British Columbia	5	24	4	33
	Sea Level Rise Adaptation Primer: A Toolkit to Build Adaptive Capacity on Canada's South Coasts	6	23	4	33
Government of Alberta	Alberta's and Climate Change: Taking Action	4	10	2	16
Government of Ontario	Ontario's Climate Change Strategy	4	18	2	24
	Climate Ready: Ontario's Adaptation Strategy and Action Plan	4	20	4	28
	Protecting People and Property: Ontario's Flooding Strategy	6	20	4	30
Government of Nova Scotia	Toward a Greener Future: Nova Scotia's Climate Change Action Plan	4	12	4	20
	The Future of Nova Scotia's Coastline: A plan to protect people, homes and nature from climate change	5	14	3	22
	Weathering What's Ahead: Climate Change Risk and Nova Scotia's Well Being	6	20	1	27
	Our Climate, Our Future: Nova Scotia's Climate Change Plan for Clean Growth	4	19	4	27
Government of Northwest Territories	2030 NWT Climate Change Strategic Framework	4	19	4	27
	2030 NWT Climate Change Strategic Framework 2019-2023: Action Plan	4	17	4	25
Fraser Valley Regional District	Fraser Valley Future 2050: Regional Growth Strategy	4	16	4	24
Calgary Metropolitan Region Board	Calgary Metropolitan Region Growth Plan	2	17	3	22
Toronto and Region Conservation Authority	Toronto and Region Conservation Authority Strategic Plan 2023-2034	2	14	2	18
Halifax Regional Municipality	Halifax Municipal Planning Strategy	3	17	3	23
	Municipal Climate Change Action Planning: Halifax Regional Municipality	5	19	6	30
	Halifax Strategic Priorities Plan 2021-25	3	13	4	20
	Climate Risk Management Strategy	6	22	6	34
Inuvialuit Regional Corporation	Inuvialuit Regional Corporation Strategic Plan 2019 to 2021	1	6	3	10
	Inuvialuit Settlement Region's Regional Climate Change Strategy	4	18	3	25
City of Abbotsford	City of Abbotsford 2022-2026 Strategic Plan	1	10	2	13
	City of Abbotsford Official Community Plan Bylaw, Bylaw No. 21	1	15	5	21
City of Calgary	Calgary Municipal Development Plan 2020	5	18	4	27
	Calgary Climate Strategy	4	19	8	31
	City of Calgary 2023-2026 Climate Implementation Plan	4	17	8	29
	Calgary's Flood Resilience Plan	5	20	8	33
City of Toronto	Toronto Official Plan	5	20	6	31
	Toronto's First Resilience Strategy	5	21	7	33
Hamlet of Tuktoyaktuk	Hamlet of Tuktoyaktuk Community Plan Bylaw #370	6	17	2	25

RESULTS: PLAN CONTENT ANALYSIS

- Relocation is starting to find it's way into planning and policy tools
- Relocation is seldom supported with granular land use policies and detailed guidance for implementation
- We are stuck in the early phases of relocation planning

RESULTS: SEMI-STRUCTURED INTERVIEWS

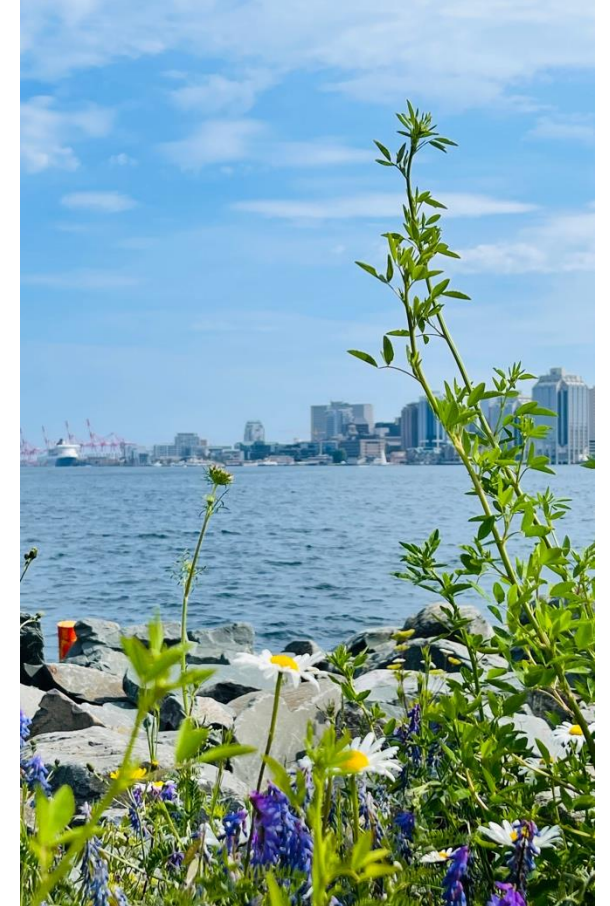
- Relocation is viewed as a valid and long-term adaptation strategy
- Perceived to be a last resort
- Funding for relocation is disjointed and limited, and little policy guidance exists

An open book is shown against a light blue background. The right page contains a quote in a light blue font. The quote reads: "It feels very dramatic, there is some sort of all or nothing tied to it... but permanent relocation feels very surgical, like you're almost cutting something off." Below the quote, the name "(GAB2)" is written in a smaller font.

"It feels very dramatic, there is some sort of all or nothing tied to it... but permanent relocation feels very surgical, like you're almost cutting something off."
(GAB2)

LOCAL ADAPTATION ENABLERS & BARRIERS

1. Abbotsford, British Columbia
2. Calgary, Alberta
3. Halifax, Nova Scotia
4. Toronto, Ontario
5. Tuktoyaktuk, Northwest Territories



CLIMATE IMPACTS

1. Abbotsford, BC
 - Atmospheric River Events
2. Calgary, AB
 - Bow River Floods
3. Halifax, NS
 - Hurricanes and Overland Flood
4. Toronto, ON
 - Overland Flooding
5. Tuktoyaktuk, NWT
 - Coastal Erosion and Flooding



LOCAL BARRIERS

- Abbotsford, BC
 - Competing priorities
- Calgary, AB
 - Attachment to place and resident perceptions
- Halifax, NS
 - Political will and multi-government cooperation



LOCAL ENABLERS

- Toronto, ON
 - Regional cooperation and encouragement of ecosystem-based adaptation
- Tuktoyaktuk, NWT
 - Resident awareness and commitment over time



CONCLUSION

- We need more education, policy guidance, and research on local planning for relocation



THANK YOU!



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The background of the slide features a blurred image of two red location pins on a road. One pin is in the foreground, and another is further down the road in the distance. The road has a dashed white line. The overall background is a light blue gradient.

IMAGE SOURCES

1. <https://www.townandcountrytoday.com/jasperstrong/exceptionally-difficult-day-jasper-wildfires-grow-2000-hectares-as-firefighters-mourn-fallen-member-9310802>
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