



#### INTRODUCTION

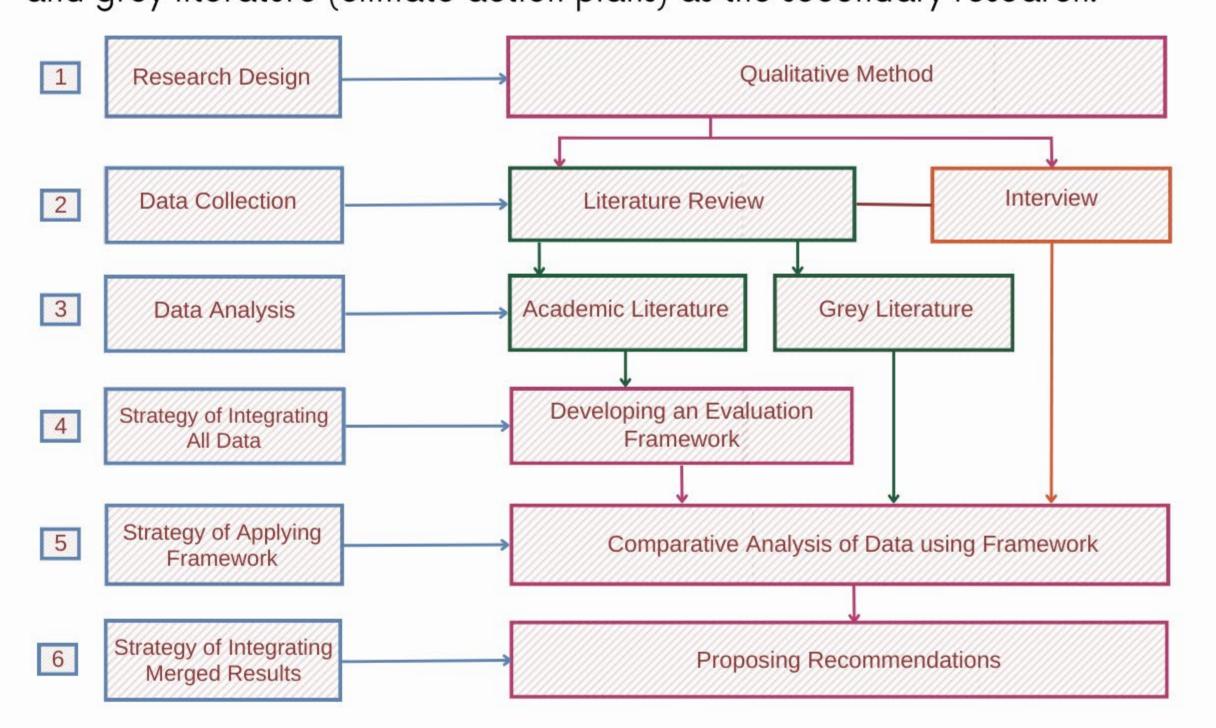
This research paper aims to explore how social vulnerabilities have been considered through the integration of Equity, Diversity, and Inclusion (EDI) themes within the building sector strategies of the climate action plans of four of the major urban centres in Canada: Toronto, Montreal, Vancouver and Calgary. The scope of the research study covers new developments of residential buildings that are four storeys or higher, and non-residential buildings (industrial, commercial and institutional developments).

The implication of this study provides a framework for policymakers, planners, developers, and AEC practitioners, to better integrate EDI consideration into the strategies of climate action plans for the buildings sector, and other sectors critical to the low-carbon economy transition. The study is guided by the three research questions:

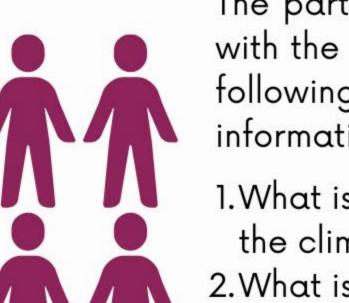
- RQ1 How is EDI conceptualized in the literature?
- How can these be used as a framework to assess the building sector strategies?
- What are the results from applying the EDI framework to the four major urban centres in Canada?

#### **METHODOLOGY**

The study uses a qualitative research method that consists of semistructured interviews with city officials (1 Toronto, 1 Vancouver, and 2 Calgary) as the primary research, and a literature review of academic and grey literature (climate action plans) as the secondary research.



## INTERVIEW QUESTIONS



The participants were chosen based on their involvements with the development of the building sector strategies. The following open-ended questions were asked to fill any information gap:

- 1. What is your government's mandate to incorporate EDI in the climate action plan & green building strategies, if any? 2. What is your role in facilitating this?
- 3. What are the barriers and opportunities to achieve the EDI goals in this sector?

# RESEARCH PAPER TOPIC: EDI IN ACTION

A COMPARATIVE ANALYSIS OF THE INTEGRATION OF EDI WITHIN THE BUILDING SECTOR STRATEGIES OF THE CLIMATE ACTION PLANS FOR CANADA'S MAJOR URBAN CENTRES

#### LITERATURE REVIEW

Terms	Refined Definitions	Theoretical underpinnings
Equity	The removal and absence of systematic barriers, biases and structural injustices to enact the practice of fair and equitable treatment so that all individuals have an equal and fair distribution of opportunities, resources, and environments free from climate hazards and risks regardless of the individual/group identity or background.	Braveman & Gruskin (2003), Bernstein et al. (2020), TIPS (2021), and Chu & Cannon (2021)
Diversity	Differences in race, colour, place of origin, religion, immigrant and newcomer status, ethnic origin, sex, sexual orientation, gender identity, gender expression, age, mental or physical abilities and characteristics, educational background, geographic location, first language, family status, organizational role and level, income, and communication style.	TIPS (2021), Loden and Rosener (1991)
Inclusion	The degree to which decision-making processes and procedures are transparent, accessible, accountable, and include intersecting identities, diverse and underrepresented voices, values, and viewpoints that are treated with respect and equally supported.	Mor-Barak & Cherin (1998), Bernstein et al. (2020), Chu & Cannon (2021) and TIPS (2021)

## EDI EVALUATION FRAMEWORK

Table showing the Equity, Diversity and Inclusion Themes and Indicators used for the Evaluation Framework

Criteria	EDI Framework	Indicators
Equity Themes	Climate justice	Statements that highlight the social dimensions of urban
		climate adaptations, such as the effects, outcomes or
		renumeration of interventions on marginalized groups or
		reparation it brings.
	Environmental justice	Statements that imply the intent to equally protect all people
		from adverse environmental and public health conditions.
	Distributional justice	Statements that suggest fair access to goods, infrastructure,
		amenities, services, resources and opportunities.
	Procedural equity	Statement that suggest equitable participation of
		underrepresented groups within the various phases of the
		planning and decision making processes.
	Recognitional equity	Statements that acknowledge diverse identities, recognize
		historical injustices impacts and promote respect for various
		these groups.
	Intergenerational equity	Statements that seek to protect environmental quality as an
		obligation to future generations.
	Intragenerational equity	Statements that consider contemporary inequities, issues and
		populations.
Diversity Themes	Vulnerable populations	statements that specify the targetted groups that the strategies
		aim to increase engagement, benefit and access to or reduce
		exposure to adverse climate conditions.
	Marginalized groups	statements that specify the targetted groups that the strategies
		aims to help remove structural aspects of inequality and
		systemic barriers.
	Persons with disability	statements that address disability, human rights legislation
		about built environment accessibility, and persons with
		disabilities lived experience of neighbourhood accessibility.
Inclusion Themes	Participation/Engagement	statements that highlight efforts to engage diverse groups in
		various processes related to the development and objectives of
		the climate action plan.
	Accessibility	statements that suggest measures to increase accessibility to
		the built environment, information and resources.
	Inclusive design/Universal design	statements that suggest ways to design for all groups.

# RESEARCH PAPER SSM1100 OSAYUWAME IZE-IYAMU SUPERVISOR: PROFESSOR JOHN ROBINSON

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#### RESULTS

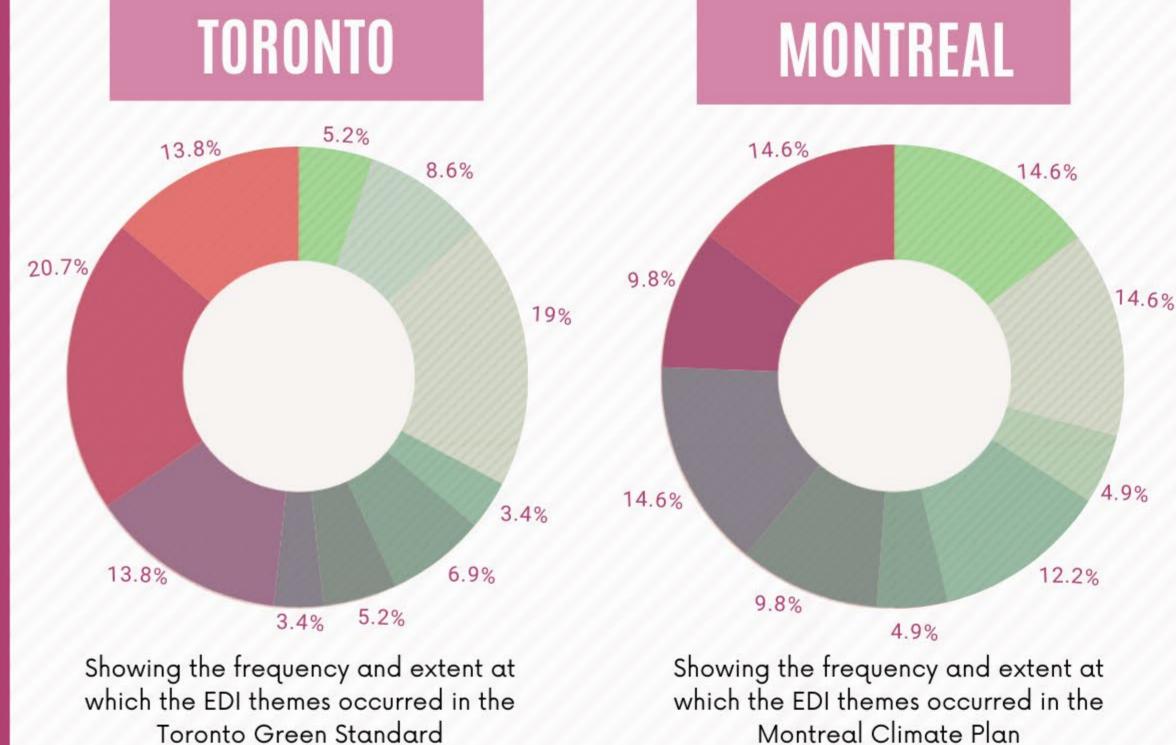
The four cities' building sector strategies incorporated EDI in varying ways and degrees within the development stages of their climate action plans, the published documents, and the implementation stages. The analysis in this section focuses on the findings from the comparative analysis after the EDI evaluation framework was applied.

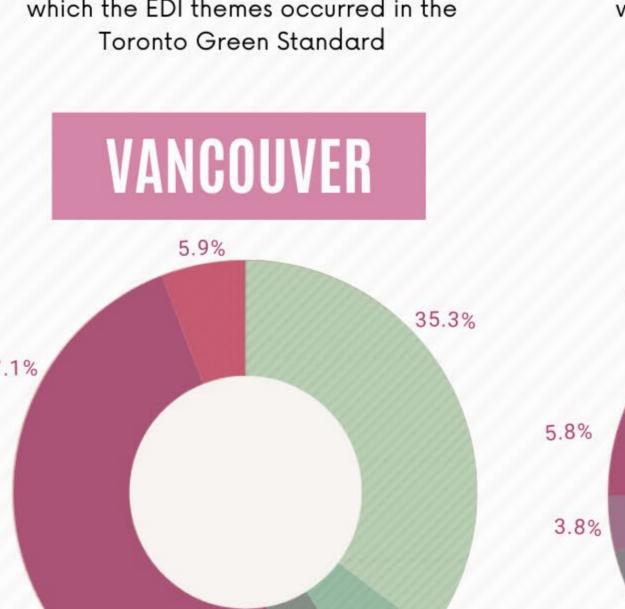


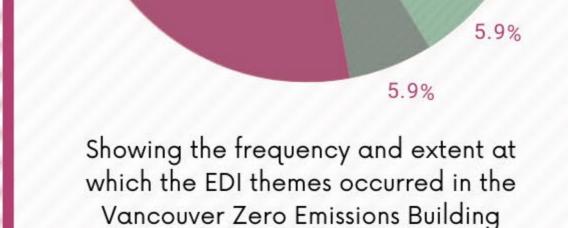
Showing the amount of building sector strategies that incorporated EDI themes (Assuming that the coverage of the building sector scope was the same across all four cities)



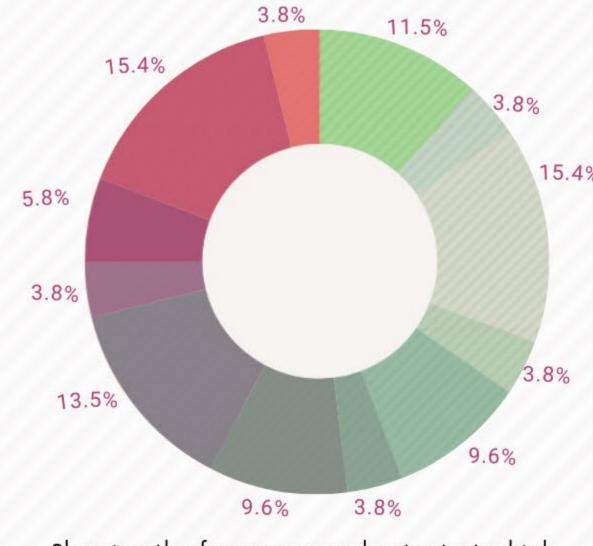
Inclusive design







Recognitional equity



CALGARY

Showing the frequency and extent at which the EDI themes occurred in the Calgary's Climate Strategy and Implementation Plan