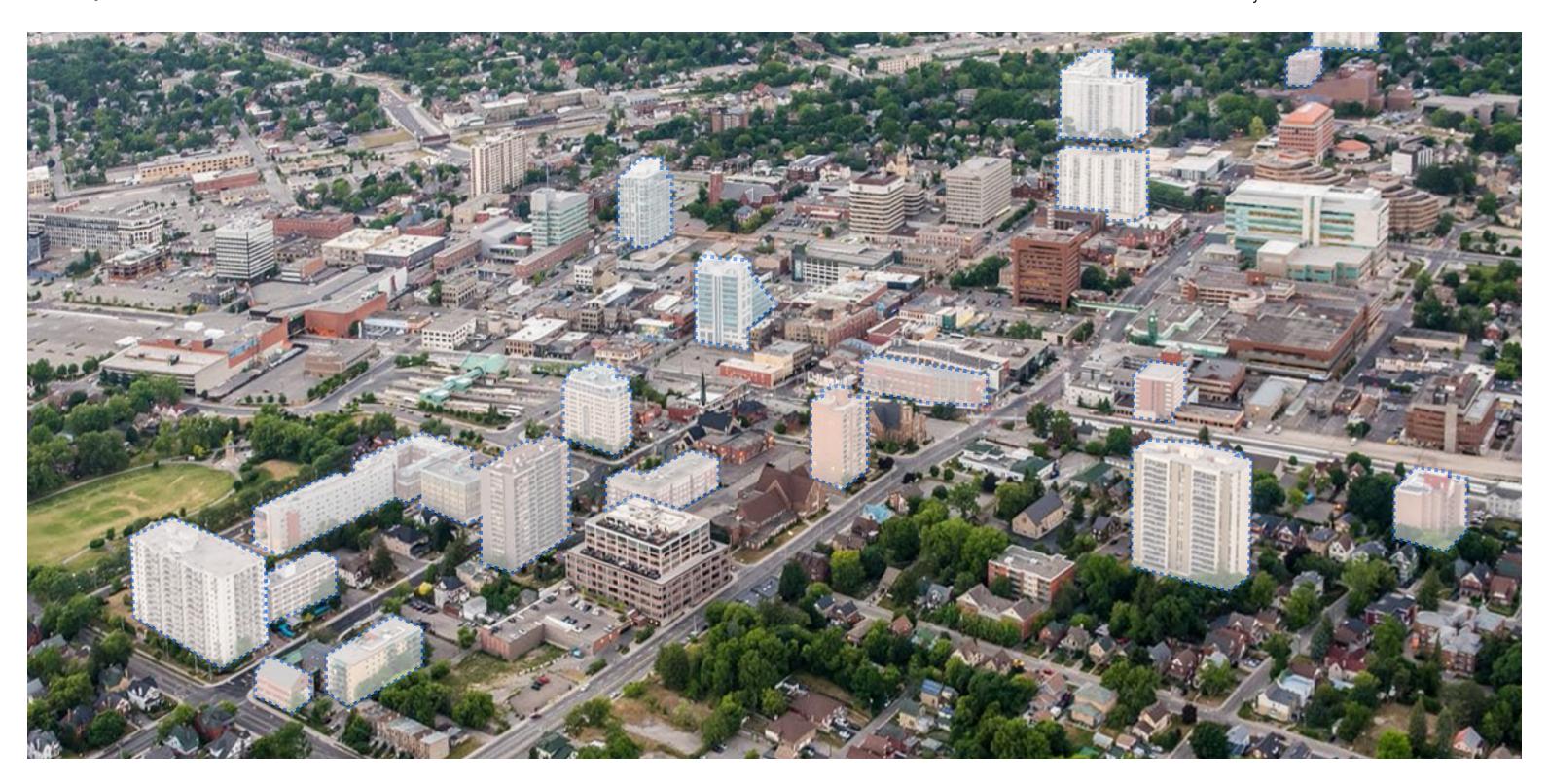
Work with municipalities to improve public housing standards to produce healthy ecological, social and subjective housing relations

University of Waterloo

Active Research Team Members Fall 2025:

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Barriers to Quality

Housing commodification incentivizes developers to build housing that appears to be of good quality for a limited period of time - while it is being sold (in the case of strata), or while it is being amortized (in the case of rental).

In a commodified housing market, subsidized housing cannot be seen to be of higher quality than market housing, so its quality is tied to market housing.

This system of housing provision creates long-term ecological, social and subjective costs.

A National Problem



Toronto

A 'staggering' 80,000 people and more were homeless in Ontario last year, new report finds

AMO says the groundbreaking report is believed to be the most accurate provincewide picture to date

Liam Casey · The Canadian Press · Posted: Jan 09, 2025 11:41 AM EST | Last Updated: January 9

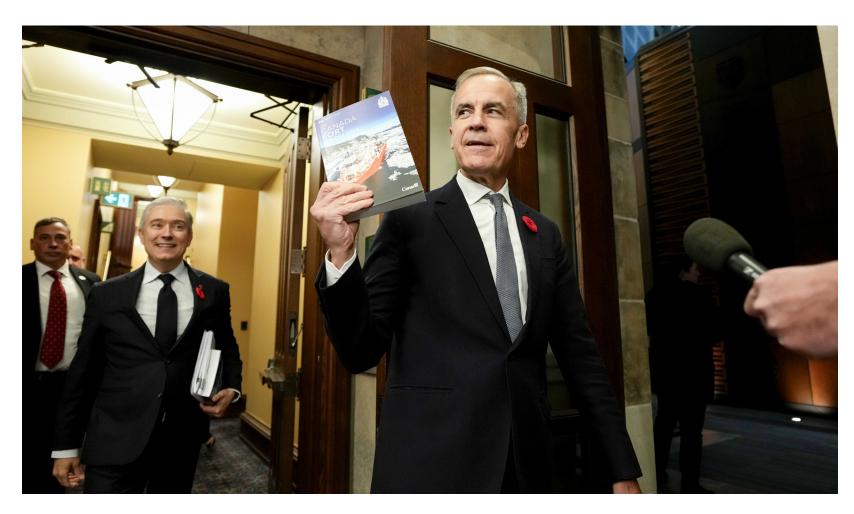




Federal budget falls short on housing affordability, experts say

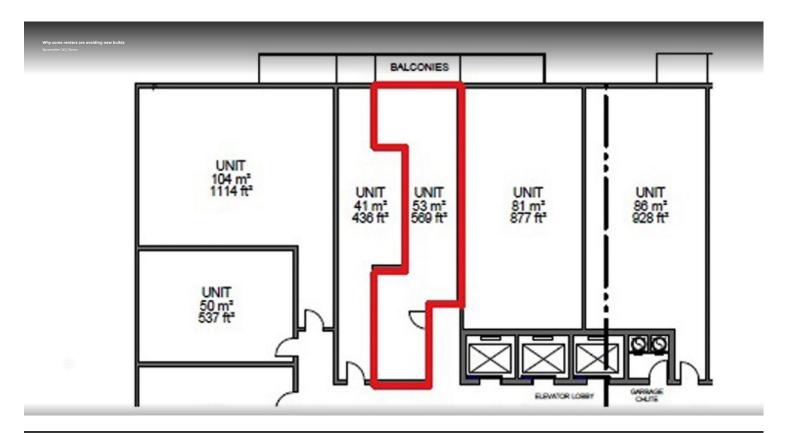
SALMAAN FAROOQUI >

PUBLISHED NOVEMBER 10, 2025 UPDATED YESTERDAY

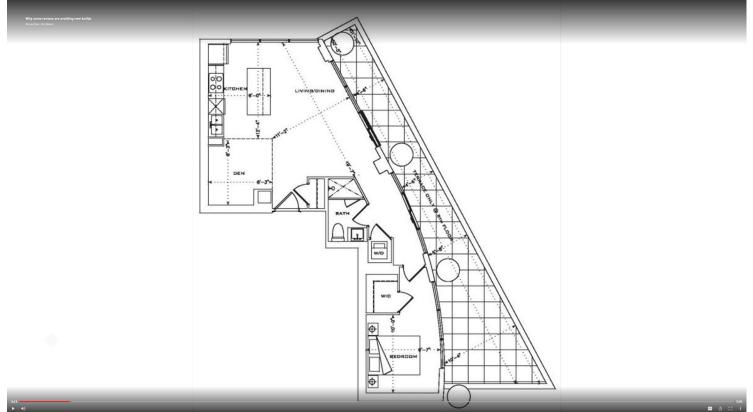


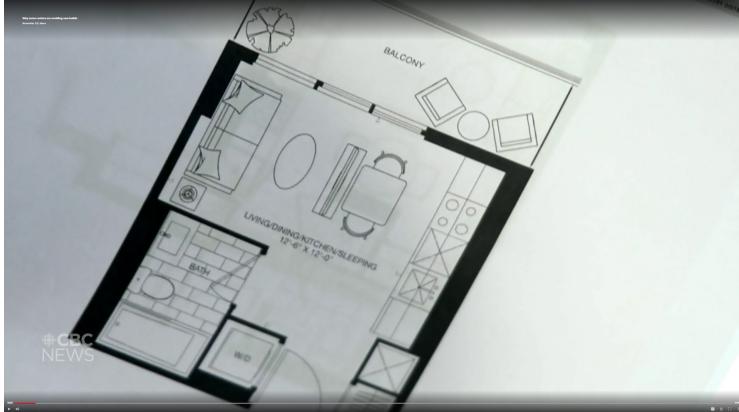
'A literal shoe box': Why some Toronto renters are avoiding new builds

Naama Weingarten · CBC News · Nov 10, 2025









Chosen Action: Political





Work with municipalities to improve public housing standards to produce healthy housing connections.

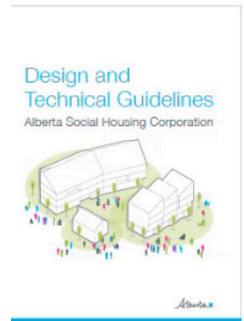


Analyze policies, legislation, regulations, and standards to analyze their effectiveness in promoting housing quality.



Create and adapt public housing standards based on the perspectives of housing residents, as a way of raising the standard of multi-unit residential buildings in both the public and the private sector.

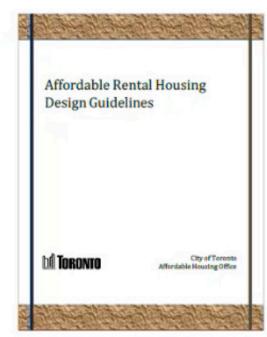
Examples of Housing Design Guidelines Across Canada











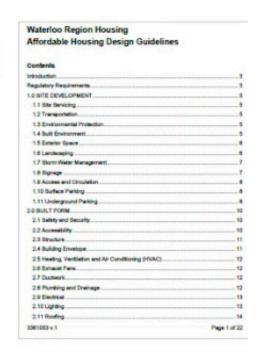


Table 1: List of Reviewed Standards

Issuing Social Housing Entity	Shorthand	Reference	
Alberta Social Housing Corporation	Alberta	Alberta Social Housing Coporation, Seniors and Housing, Government of Alberta, 2020. Design and Technical Guidelines.	
BC Housing	ВС	BC Housing, 2019. Design Guidelines and Construction Standards.	
Manitoba Housing	Manitoba	Manitoba Housing, 2017. Design Guidelines for Multi-unit Affordable and Social Housing.	
Société d'habitation du Québec	Québec	Société d'habitation du Québec, 2021. Guide de construction: Guide d'élaboration et de réalisation des projets - Annexe 5.	
City of Toronto, Affordable Housing Office	Toronto	City of Toronto, Affordable Housing Office, 2015. Affordable Rental Housing Design Guidelines.	
Waterloo Region Housing	Waterloo Region	Waterloo Region Housing, 2019. Affordable Housing Design Guidelines.	

Healthy Housing Connections Represented in National Housing Policies

Table 18: Variable Categorization According to Assessment in Studied Policies

	Well-Represented	Incomplete / Poorly Assessed	Underrepresented
lieu	Embodied Carbon		
	Operational Carbon		
		Adequacy	
Ξ		Thermal Comfort	
Ecological Milieu	Air Quality		
	Water Use and Quality		
<u>m</u>	Visual Comfort		
		Ecological Connectivity	
			Urban Connectivity
Social Relations	Suitability		
		Sociability	
Re			Governance
cia			Cultural Adequacy
Š		Safety	
Subjective Agency	Privacy		
			Resident Agency
	Accessibility		
			Security of Tenure*
			Affordability*
			Wealth
			Labor Conditions

Case Studies

1960-1979

Market 🗆







Non-Market O







Market □







Non-Market O







Market □





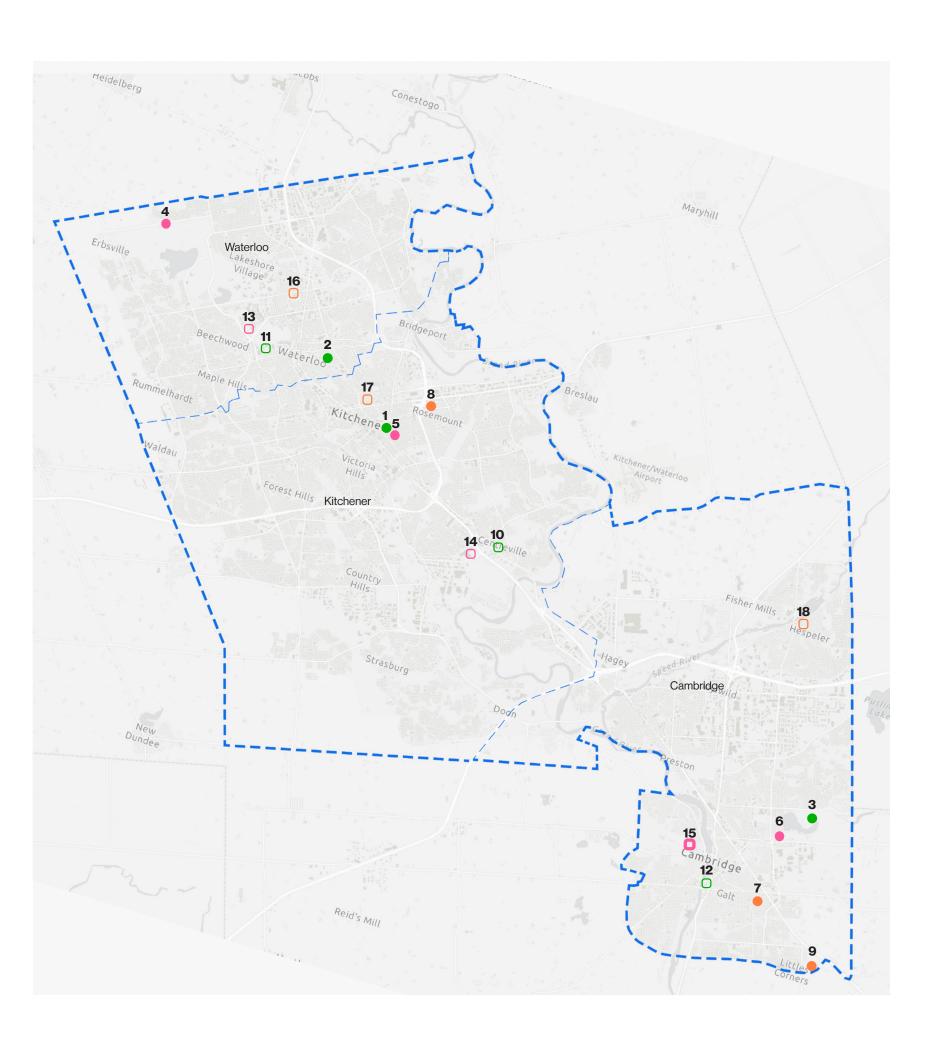


Non-Market O



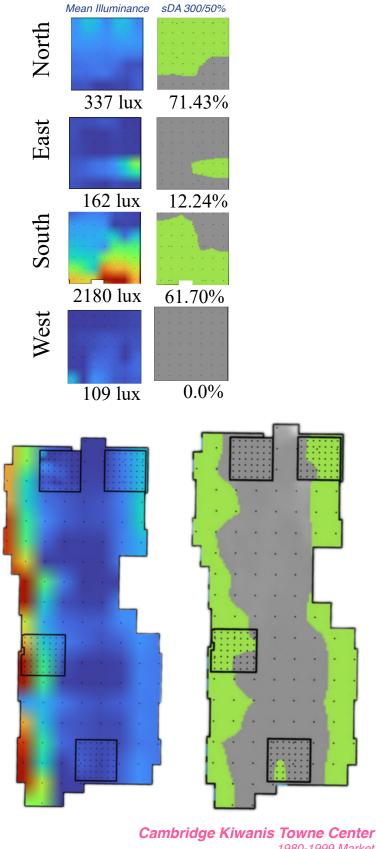






Environmental Analysis

For Rethinking Regional Housing Standards



Cambridge Kiwanis Towne Center
1980-1999 Market

O

Energy Use Modeling Analysis Which building models perform best and what are the contributing factors? **Daylighting** Modeling Analysis Survey Results Are residents satisfied? **Indoor Environmental Quality** Survey Results

Types of Recommendations:

Design Priorities

Factors which require increased attention in design (such as balcony width and unit aspect ratio in daylighting)

Minimum Values

Specific values for various design choices (such as minimum wall R-value of R-28)

Maintenance

Recommend a regular audit of existing buildings for retrofit measures

Dwelling Floor Plan Analysis

For Rethinking Regional Housing Standards

Studio 1 BDRM 2 BDRM 3 BDRM Zonal Diagram Zonal Diagram Zone Type Zone Type Zone Type Zonal Diagram Zone Type Zonal Diagram

Beacon Tower 1960-1979 Market

(3x4)Square Corner Unit

(3x5)Very Wide Corner Unit



(3x5)Wide Corner Unit



Suitability

Is there enough space for all occupants?

Analyzing layout, footprint and circulation.

Fairview Mennonite

Homes 1960-1979 Non-Market 0

(3x2)Slim Corner Unit



(2x2)Wide Corner Unit



Practicality & Adaptability

What can or can't an occupant perform in their dwelling?

Analyzing space function, and convertible openings.

Subdivision & Daylight

How is the dwelling divided and what spaces are positioned close to light?

Analyzing daylight adjacency, openness and zones.

Highlands by the Park 1980-1999 Market





(2x5)Wide Corner Unit



(2x4)Deep Wing Unit



Cambridge **Kiwanis** Towne Center

1980-1999 Non-Market 0

(2x2)Deep Side Unit



(3x3)Square Corner Unit



The Bright **Building** 2000-Present Market

(2x4)Square Side Unit



(2x2)Slim Side Unit



(2x4)Deep Corner Unit



55 Franklin 2000-Present Non-Market

0

(2x2)



(3x2)Broad Side Unit



Residential-to-Residential (R2R) Adaptability Index

For Rethinking Regional Housing Standards

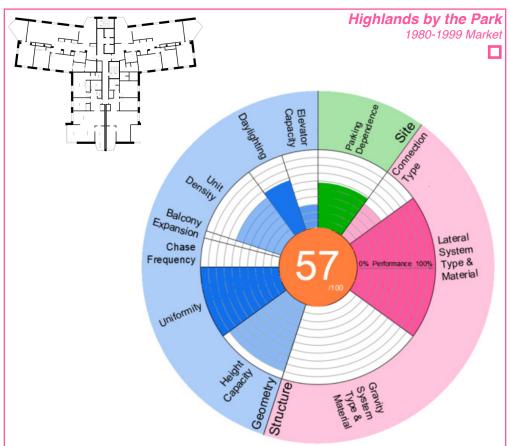
What is an adaptability index?

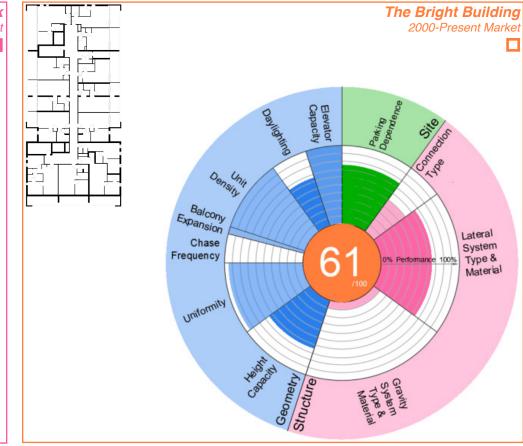
An evaluation tool to assess a building's design for its ability to easily support renovation and alterations that would allow unit size and configuration to fluctuate over the lifespan of the building.

larket Case 5

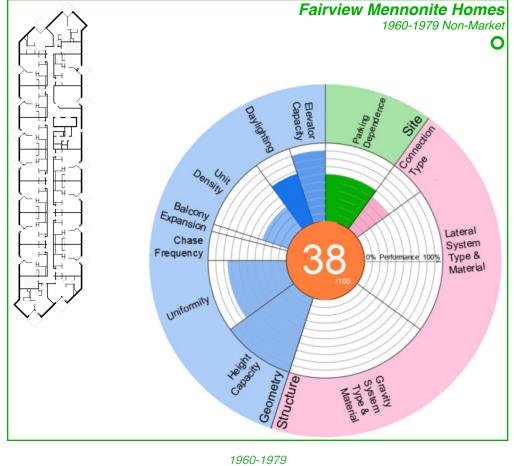
Uses

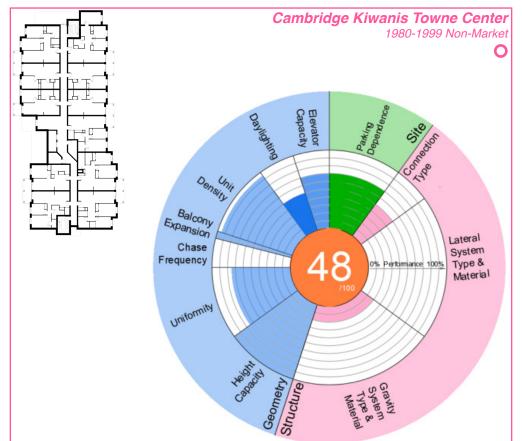
Public rental housing can plan for generations of users





2000-Present





1980-1999

Action Impact:

Barriers to Quality

Housing commodification incentivizes developers to build housing that appears to be of good quality for a limited period of time - while it is being sold (in the case of strata), or while it is being amortized (in the case of rental).

In a commodified housing market, subsidized housing cannot be seen to be of higher quality than market housing, so its quality is tied to market housing.

This system of housing provision creates long-term ecological, social and subjective costs.

De-commodified Quality:

Creating new public housing standards for Waterloo region should be based on the **perspectives of residents**.

Improved standards for <u>de-commodified</u> housing incentivizes better <u>market</u> <u>housing.</u>

These new standards of housing provision can create <u>improved long-term ecological</u>, <u>subjective and social connections</u>.