Offsite Housing Construction & Strategic Land Use

Affordability, Climate & Economic Development





Prepared for

Metro Vancouver Regional Planning Committee

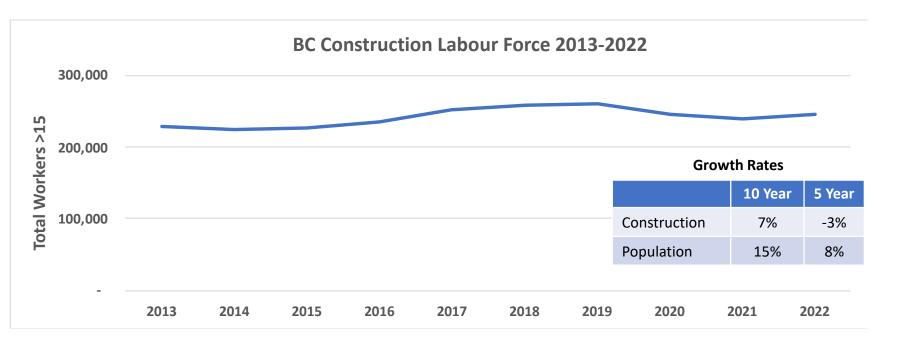
Prepared by

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ACE Housing Project Director

September 7 2023

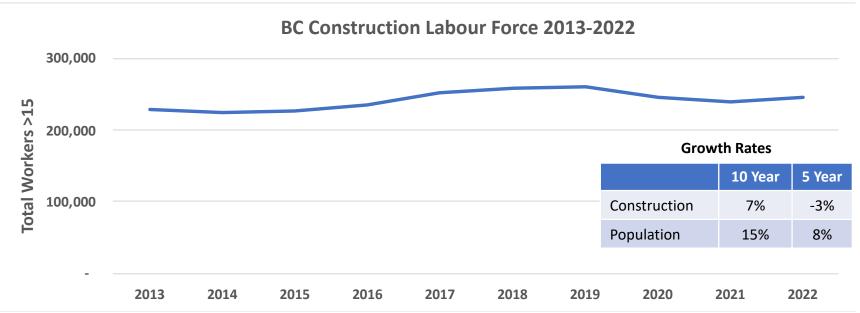




Biggest Driver of Housing Supply Shortfalls:

Construction Labour Force

municipal permitting is important but secondary

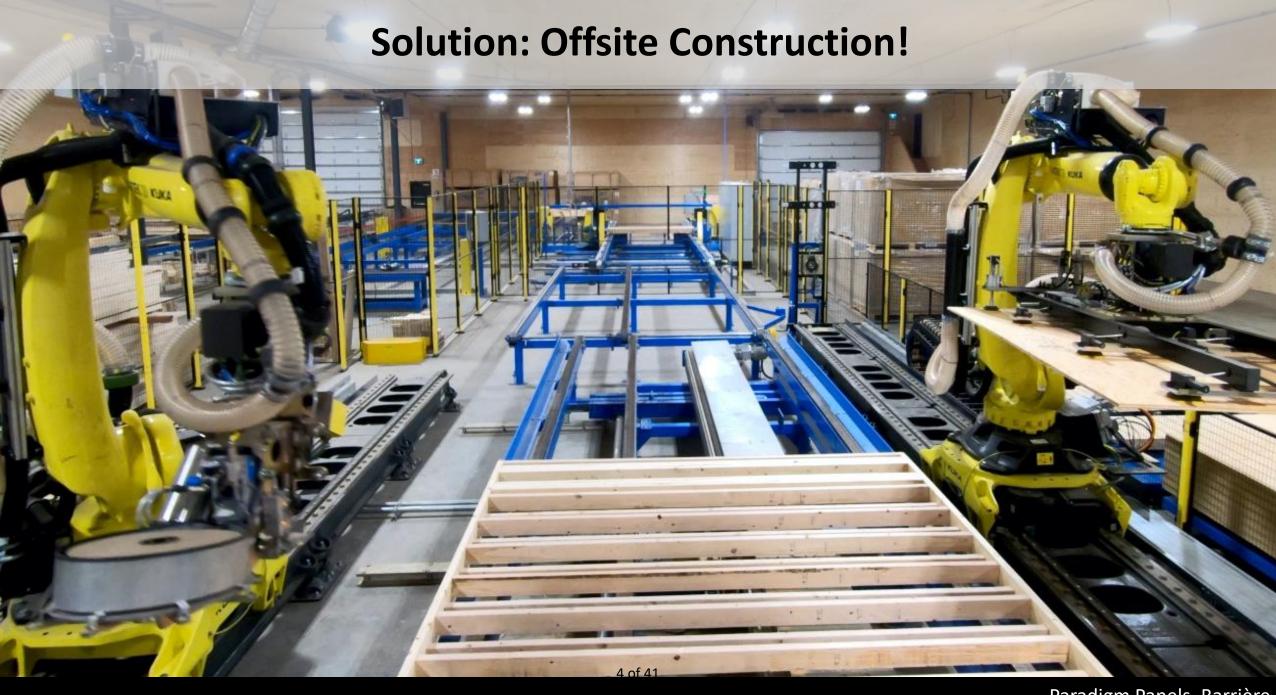




Biggest Driver of Housing Supply Shortfalls: Construction Labour Force

10 Year Retiree
Projection:
38,000

Alex Boston with CMHC & Statistics Canada, 2023



Offsite Construction Rewards Affordability & Supply • 20-50% faster construction time up to 20% cost savings Climate only approach to scale net zero new construction BC wide corner "stud" to low embodied carbon **Economic development** 50% labour productivity increase big domestic and international value-added forestry market opportunity secure jobs in small and big towns and Indigenous communities dramatic reductions in building construction injury and fatality rates Sources: Blackbox Offsite Solutions, Building Intellect, McKinsey, WPI Economics Photo: Paradigm Panels, Barrière

Offsite Construction: A Potential ACE Card

Affordability & Supply

- 20-50% faster construction time
- up to 20% cost savings

Climate

- only approach to scale net zero new construction BC wide
- corner "stud" to low embodied carbon

Economic development

- 50% labour productivity increase
- big domestic and international value-added forestry market opportunity
- secure jobs in small and big towns and Indigenous communities
- dramatic reductions in building construction injury and fatality rates

Sources: Blackbox Offsite Solutions, Building Intellect, McKinsey, WPI Economics

Region-Wide Wood Offsite Construction Innovation





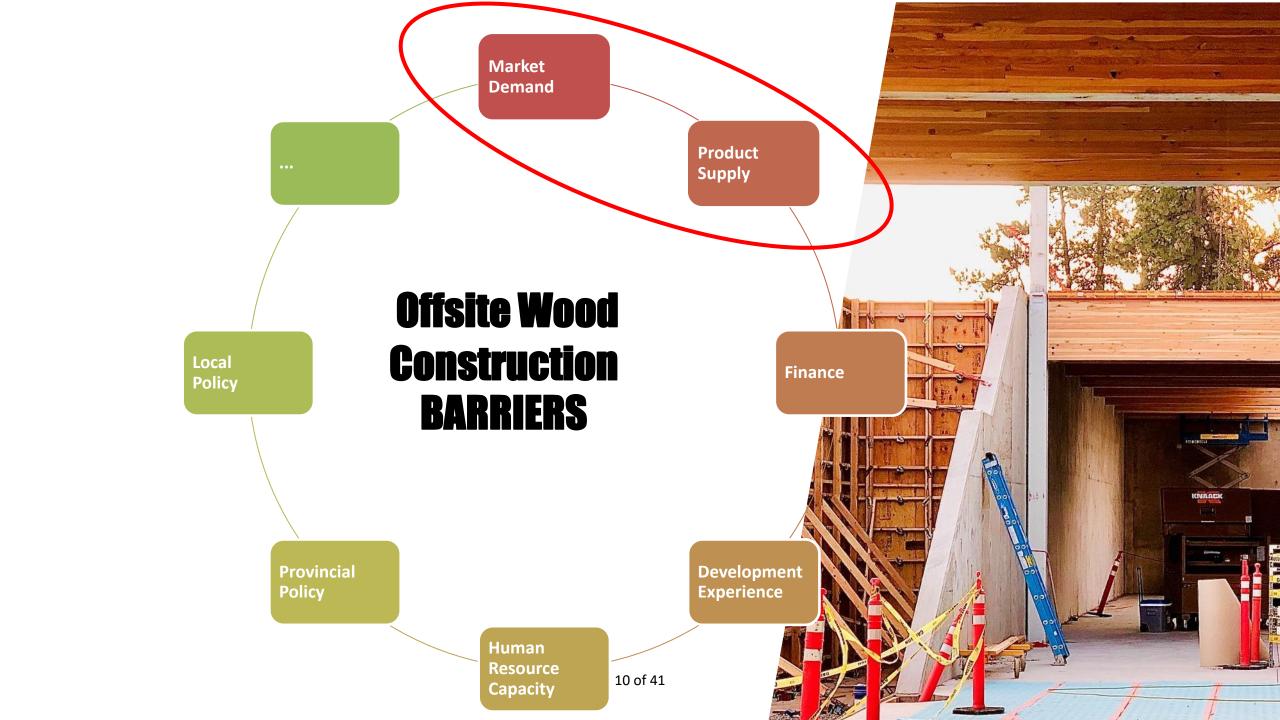








Market **Demand Product** Supply **Offsite Wood Construction** Local Finance **Policy BARRIERS Provincial Development** Policy Experience Human Resource 9 of 41 Capacity



Demand Generation Opportunities Municipal Early Adopters

- Pre-zoned, "pre-approved" prefab designs
 - Rental
 - Part 9 multiplex
 - Supportive housing
 - Non-market/co-op housing
- Pre-zoned mid-rise in transit hubs and corridors
 with supportive design guidelines
- Underutilized, strategically-located public land for non-market housing



Courtenay

Quesnel

Vancouver

Robust Provincial Policy Framework

- Collaborative approach
- Market demand strategy
- Early adopter program
 - Pre-approved designs



Come to the table



UBCM Convention Side Event

following Premier Eby's Address

Friday September 22 12:30 – 2:00 PM

Fairmont Waterfront



















Let's do lunch

BC'S HOUSING ACE CARD

Hitting the Affordability, Climate & conomy **Jackpot** with Offsite Wood Construction & Strategic Land Use





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Friday September 22 12:30 – 2:00 PM

Fairmont Waterfront















Top Players Show Their Cards

TIFFANY DULZITA **Community Land Trust**



LISA HELPS Premier's Housing Advisor



LISA DOMINATO

City of Vancouver





ROCKY SETHI Developer & Homebuilder









Help Write the Rules to this Game

Register at EventBrite

BC'S HOUSING ACE CARD

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Top Players Show Their Cards





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City of Vancouver

BRENDA KNIGHTS BC Indigenous Housing Society



ROCKY SETHI Developer & Homebuilder











Widgeon Marsh, Coquitlam

Sensitive Ecosystem Inventory Update

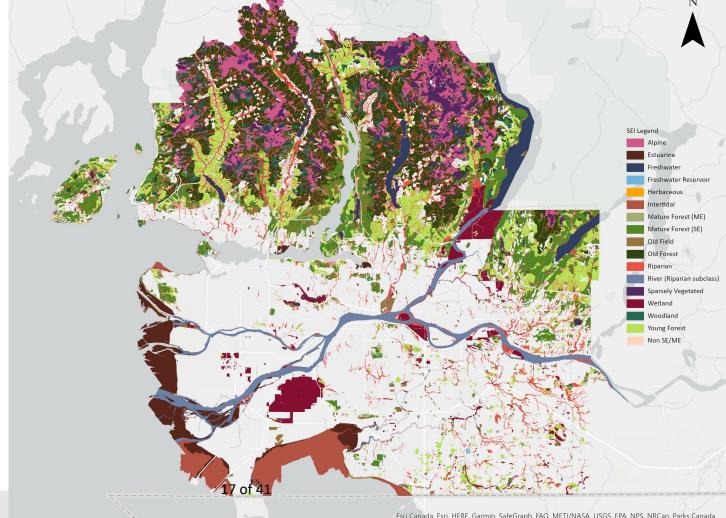
2014-2020 CHANGE SUMMARY

Laurie Bates-Frymel

Senior Planner (Environment), Regional Planning and Housing Services

SENSITIVE ECOSYSTEM INVENTORY (SEI)

- GIS dataset
- Identifies and classifies ecologicallyimportant areas
- Quality

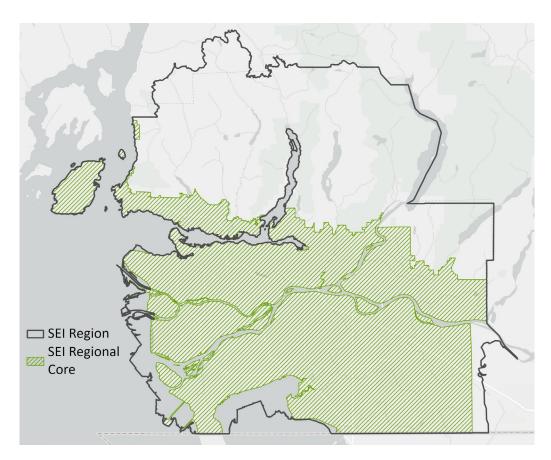




REPORTING AREAS

- Region
 - 53% is Sensitive or Modified Ecosystem

- Regional Core
 - 20% is Sensitive or Modified Ecosystem



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SENSITIVE ECOSYSTEM CHANGE

Losses:

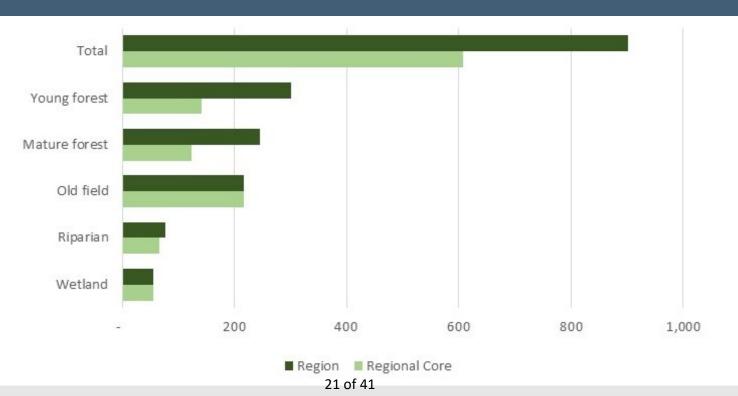
Area	2009-2014	2014-2020
Region	- 1,600 ha (-0.9%)	- 900 ha (-0.5%)
Regional Core	- 1,200 ha (-3.4%)	- 600 ha (-1.8%)

• Gains: 8 ha



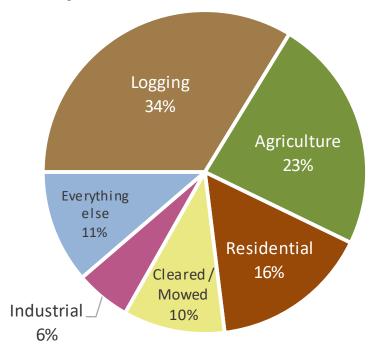
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Sensitive and Modified Ecosystem Loss Between 2014 and 2020 - Total and Top 5 Classes*



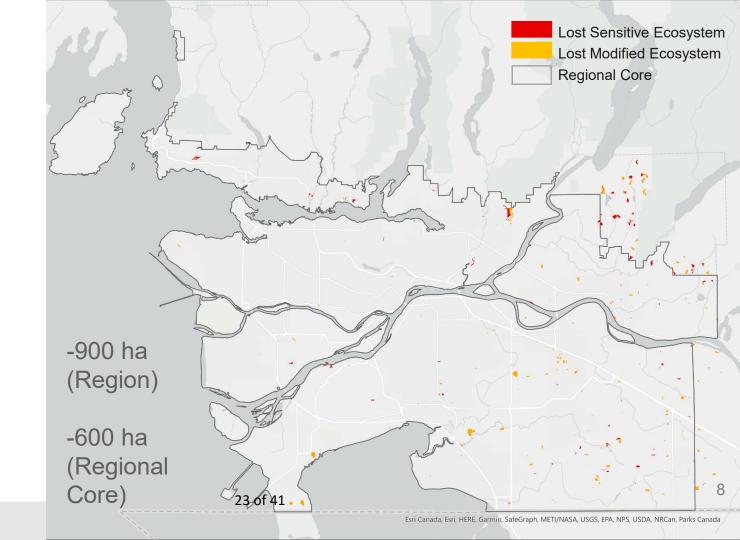
CAUSES OF SENSITIVE AND MODIFIED ECOSYSTEM LOSS IN THE REGION (2014-2020)

- 1. Logging of young and mature forests
- 2. Old fields converted to active agriculture
- 3. Residential development



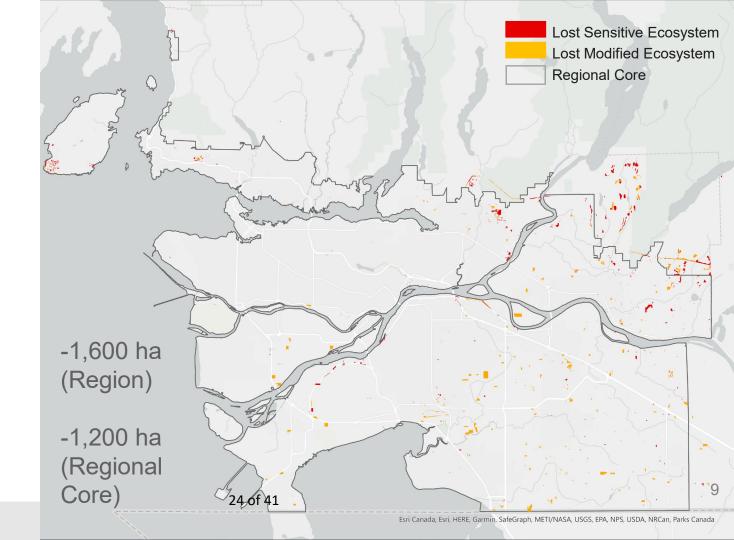
ECOSYSTEM LOSS

2014-2020



ECOSYSTEM LOSS

2009-2014

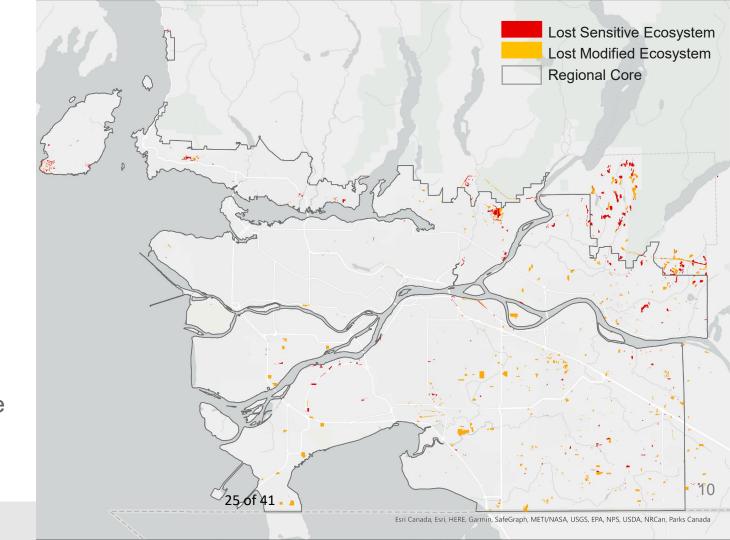


ECOSYSTEM LOSS

2009-2020

2,500 ha (~1.5%) in the Region

1,800 ha (~5%) in the Regional Core over 10 years





IMPLICATIONS OF LOSS

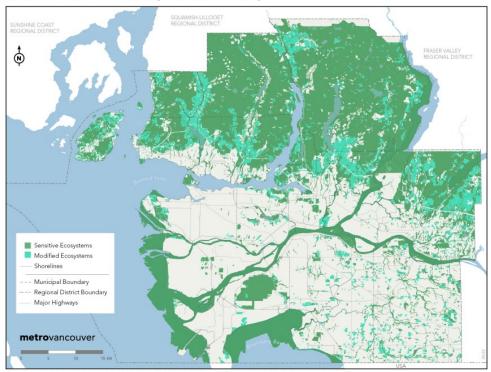
- Ecosystem service provision
 - Carbon storage
 - Mitigation of natural hazards
 - Human health
- Climate change resiliency
- Habitat and connectivity

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NEXT STEPS

- Share data
- Additional data analyses
- Metro 2050 Map 11
- Policy implementation
 - o Metro 2050
 - Regional Parks Land Acquisition 2050 Strategy
 - o Climate 2050

MAP 11 Sensitive Ecosystem Inventory



Map for reference only and does not reflect Regional Land Use Designations. An online SEI Tool is available at gis.metrovancouver.org/mvmaps/SEI and downloadable from metrovancouver.org/data. The SEI data set is from 2014, Local ecological datasets may be more current and detailed.



Thank you



Social and Community Data Land Use Model

Residents and Recent Immigrants Survey Results

Sinisa Vukicevic, PhD

Program Manager, Planning Analytics, Regional Planning and Housing Services

Regional Planning Committee | September 7, 2023 61811194

Leger

OBJECTIVES

The objectives of this research are to:



Identify the different household compositions within Metro Vancouver: Where do they live? Who lives there? What is the type of house?



Understand the current values of those living in Metro Vancouver: Why do they live in Metro Vancouver? Why did they choose their current home/neighbourhood? Does access to certain amenities impact their choice?



Establish preferences for housing and neighbourhood choice: Are there differences between current and preferred housing types? Do values change?



Identify differences between the two target groups: Are there are differences between residents and immigrants and if so, what are they? i.e. movement patterns, housing preferences, values?

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Desident Insuries

REASONS FOR LIVING IN METRO VANCOUVER (MV)

Residents' top reason for living in the MV region is "My family and/or friends live here" (48%) while for immigrants it is "for employment opportunities" (34%). Immigrants are more likely than residents to have chosen to live in MV for many reasons, including a final distribution of the first and the live and the li

including safety, affordability, available housing, and education.

,		Resident (n=3,000)	Immigrant (n=1,547)
My family and/or friends live here	44%	48% 🔺	31%
Favourable climate	34%	35%	33%
For employment opportunities	33%	33%	34%
For the nature and landscape this region has to offer	29%	30%	28%
Safe region	28%	26%	33% 🔺
Attractive neighbourhoods/architecture	24%	23%	25%
Access to the ocean/beaches	22%	22%	21%
Affordability	20%	18%	24% 🔺
Good region for raising kids	18%	18%	18%
Available housing	18%	17%	23% 🔺
For schools and playgrounds for children	14%	13%	18% 🔺
For university or other education	14%	12%	21% 🔺
Many people in my ethnic group/ from my country live here	10%	8%	19% 📥
Access to winter sports	7%	6%	11% 🔺
Ease of access/fast to obtain permanent residence after student/work visa	7%	5%	14% 🔺
Other	6%	8% 🔺	1%

TOP 3 REASONS FOR CURRENT RESIDENCE/NEIGHBOURHOOD

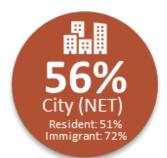
Overall, for those who live in Metro Vancouver, a safe neighbourhood, affordability, and having family and friends nearby are the top three reasons for choosing their current residence. For immigrants, access to public transportation is the second most important factor, while having family and friends nearby is less important.

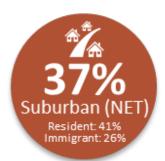
Resident Immigrant

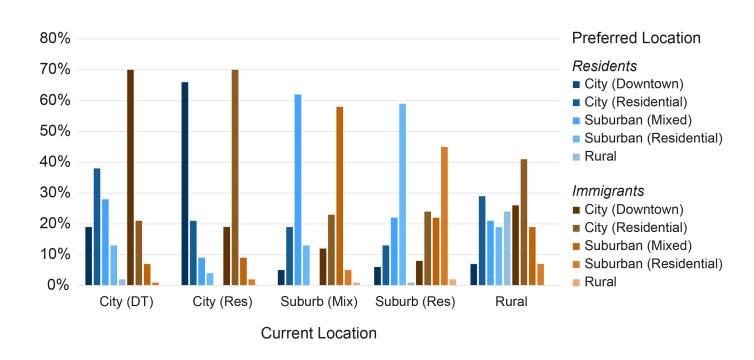
	·	Resident	IIIIIIIIgiaiit
		(n=3,000)	(n=1,547)
Safe neighbourhood	32%	32%	31%
Affordability	31%	32% 🔺	28%
Family and/or friends nearby	31%	34% 📥	19%
Nature nearby parks, walking trails/paths, forests	25%	26% 🔺	22%
Proximity to workplace	24%	25% 📥	21%
Access to public transportation	24%	23%	29% 🔺
Good investment	18%	20% 🔺	13%
Residence design, property features, style	18%	19% 🔺	15%
Attractive neighbourhood/architecture	18%	18%	17%
Proximity to schools and playgrounds for children	14%	14%	15%
Proximity to facilities/amenities that serves people from my culture	10%	8%	17% 📥
Sports and recreation nearby	8%	7%	11% 📥
Pubs, restaurants, or student clubs nearby	8%	7%	9%
Proximity to university or other education	7%	6%	12% 📥
Building amenities	6%	5%	10% 🔺
Cinemas, theatres, cultural facilities nearby	5%	5%	11% 🔺
Proximity to people in my ethnic group 5	%	3%	10% 🔺
Proximity to place of worship 49	%	3%	8% 🔺
Other 5	%	5%	2%

CURRENT VS. PREFERRED

Living Location

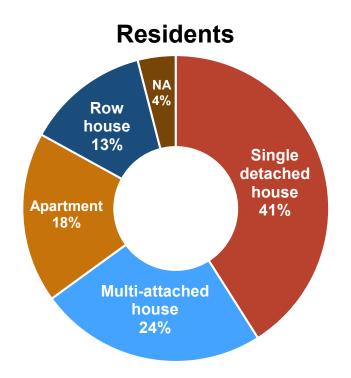




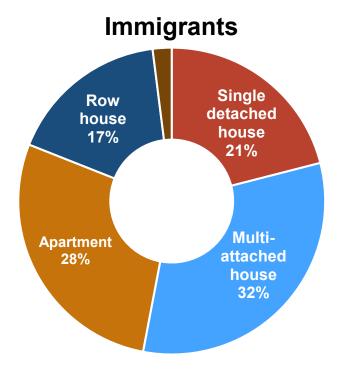


HOUSING PREFERENCES

Key Findings







THE BEHAVIOUR CHANGE - LOCATION

Cross- municipal analysis

RESIDENTS

Preference for lower density

Preference for higher density

New Westminster

Burnaby

Vancouver

Coquitlam

North Vancouver – City

Port Moody

West Vancouver

Lions Bay

Pitt Meadows

Bowen Island

IMMIGRANTS

Preference for lower density

Port Moody

New Westminster

Richmond

Vancouver

Coquitlam

Preference for higher density

Langley Township

Belcarra

Lions Bay

West Vancouver

Bowen Island

KEY FINDINGS

How the model will support regional policymaking?

- Residents expressed preference live in lower density areas
- Immigrants want to remain in city, but live in more residential areas (not downtown)
- Home type preferences:
 - Residents: Need to reconcile preference for single-detached homes with reality of future housing supply. Need to ensure higher density neighbourhoods are attractive and meeting the needs of residents.
 - Immigrants: higher demand for multi-attached lots in city residential area (outside of downtown)
- Immigrants expressed greater interest in future home ownership
- Immigrants favour public transport and walking

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KEY FINDINGS

How the model will support regional policymaking?

- Both, residents and immigrants, expressed higher demand for 3 bedroom units
- Safety and affordability becomes two main criteria for choosing where to live (NBH)
- Families with children would downsize after their children move out;
 this is higher among residents than immigrants
- Future home accessibility or adaptability is about twice as great as current needs – with immigrants anticipating significantly greater needs

NEXT STEPS – FUTURE PROJECTS

Sample size and machine learning

- To make this survey a standardized survey in the region that will be repeated frequently (to follow Census years)
- The project intends to inform regional and local policymaking:
 - an indication if existing land use designations follow residents' preferences
 - a sign of the need for a specific housing structure type
 - a hint of potential pressure on the rental housing market

O ...



Thank You

Accessibility features could include an accessible entrance (either a no-step entrance or a ramp), accessible bathroom (wide doorway, space for a wheelchair to turn around, space under the sink, grab bars around the toilet, wide walk-in shower, etc), accessible kitchen (lowered counters, space under the sink, cooktop controls on the front rather than the back, etc).

Adaptable features could include wider doorways, reinforced bathroom walls to accommodate the future installation of grab bars around the toilet and shower, reinforced stairway walls to accommodate the future installation of lift rails, kitchen cabinets that can be lowered or removed, door and sink handles of the lever type rather than knobs, etc.)

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