Roderick V. Louis

March 10-2023 MV RD "Planning Committee" mtg, agenda Item 3.1: "Metro 2050 Regional Growth Strategy": http://www.metrovancouver.org/boards/GVRD/RD 2022-Mar-25 AGE.pdf

"Metro 2050 RGS" development (April-2019 to March-2022 when 1st & 2nd reading occurred)

->>> **Did <u>not</u>** comply with Local Govt Act <u>public consultation</u> requirements; https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section434

- "Metro 2050 RGS" content:
 - Highly deficient;
 - Unnecessarily vague;
 - Bereft of specific, actionable objectives;
 - Needlessly without any "Implementation Agreements**"

** Local Government Act (RSBC) sections 435 and 451 re Implementation Agreements: https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section435 https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section451

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001 13#section434

- 434) Consultation during development of regional growth strategy
- (1) During the development of a regional growth strategy,
- (a) the proposing board must provide opportunity for consultation with persons, organizations and authorities that the board considers will be affected by the regional growth strategy,
- (2) For the purposes of subsection (1)(a), as soon as practicable after the initiation of a regional growth strategy, the board must adopt a consultation plan that, in the opinion of the board, provides opportunities for early and ongoing consultation with, at a minimum, the following:
- (a) its citizens;
- (d) boards of education,...;
- (e) the Provincial and federal governments and their agencies.

Metro 2050 RGS Development

Metro 2050 RGS "Consultation Plan":

- Adopted by the MV RD board in July and October-2019

http://www.metrovancouver.org/services/regional-planning/PlanningPublications/Metro2050EngagementPlan-Oct2019.pdf http://www.metrovancouver.org/boards/GVRD/RD 2019-Oct-4 AGE.pdf (Item 2.2)

- > "Consultation Plan" was DEFICIENT:
- > Did <u>not</u> identify <u>any</u> "<u>advertisement" methods</u> for:
- "Notifying" MV citizenry (business owners, residents) of the Metro 2050 RGS development;
- <u>Inviting MV citizenry</u> to provide their views regarding potential content of the Metro 2050 RGS;

Metro 2050 RGS Development

MV RD responses to 6 Freedom of Information Requests confirmed:

During April-2019 to March-2022:

➤ <u>Metro Vancouver did not "notify" MV citizenry</u> (business owners, and residents) of the Metro 2050 RGS development...

... by posting advertisements in (or on) <u>any</u> of BC's **newspapers'** (paper and Internet versions), **radio** and **TV stations**' websites;

➤ Metro Vancouver *did not advertise* the Metro 2050 RGS development

... in (or on) <u>any</u> BC **newspapers** (paper and Internet versions), **radio** and **TV stations**' websites...

Requested Action #1

Recommend to the MV RD board that:

- The (February 24-2023 MV RD board mtg) motions that approved the Metro 2050 RGS... are promptly rescinded;
- Development of the Metro 2050 RGS is extended by at least 6- 12 months; and during this time,
- Metro Vancouver will facilitate a <u>fulsome</u>, <u>transparent consultation</u> with:
- > MV business owners,
- > MV residents,
- k-12 school boards, k-12 parent-teacher associations & advocacy groups;
- > The region's police agencies, departments and RCMP detachments....
- ... regarding potential amendments to and content of the Metro 2050 RGS;

Requested Action #2

Recommend to the MV RD board that:

- The Metro 2050 RGS is amended so that it contains **statistics**, **objectives and actions** and **Implementation Agreements** regarding:
- a) The Region's k-12 school services 2023- 2050;
- **b)** The severe and worsening inadequacies of k-12 schools' student capacities 2011- 2023... and resultant "portable classrooms" problems- in MV's "South of Fraser" sub-region (over 300 portable classrooms as of March-2023);
- c) Crime levels (2011- 2023);
- .. & strategies that, during 2023- 2050, will be implemented by the region's police agencies and related services... to prevent/ reduce crimes- and prevent and reduce specific types of crimes such as Metro Vancouver's severe and worsening-formany-years guns and illicit drugs crimes;
- d) The Region's police services and agencies, and RCMP detachments;

Requested Action #2 continued

Recommend to the MV RD board that:

The Metro 2050 RGS is amended so that it contains **statistics**, **objectives and actions- and <u>Implementation Agreements</u>- regarding:**

e) The potential benefits of the establishment of a *Metro Vancouver Police*Department- that would replace all of, or most of, the Metro Vancouver Regional District's police agencies and member municipalities' police departments and RCMP detachments;

And... the financial, logistical and other resources- and the legislative and administrative actions- that potentially would be required to establish such a *Metro Vancouver Police Department*;

f) The region's major bridges and tunnels (especially <u>Massy Tunnel</u>), their adequacies & inadequacies during 2011- 2023, current and future needed capacities, and the estimated remaining years before existing bridges and tunnels must be replaced;

Requested Action #2 continued

Recommend to the MV RD board that:

The Metro 2050 RGS is amended so that it contains **statistics**, **objectives and actions- and <u>Implementation Agreements</u>-** regarding:

- g) The region's <u>rail rapid-transit lines</u> (2011- 2023): *Expo, Millennium, Evergreen, Broadway* and *Canada Line* SkyTrain lines; and the *West Coast Express* "Heavy Rail" line,... their adequacies & inadequacies during 2011- 2023, Current and future needed capacities, and estimated remaining service years;
- **h)** The performance of Metro Vancouver's water, *liquid waste*, and *solid waste* services' infrastructure during 2011-2023; ... Projected needed increases in capacities of, upgrades to & replacements during 2023- 2050... to accommodate MV's commercial facilities & population increases;
- ->>> Why has MV's 2011 (10-year) Liquid Waste Management Plan not been replaced?? http://www.metrovancouver.org/services/liquid-waste/projects-initiatives/lwmp/Pages/default.aspx
- ->>> Consequences of not replacing MV's 2011 Liquid Waste Management Plan during 2021- 2023... and afterwards??

Requested Action #3

Recommend to the MV RD board that: the Metro 2050 RGS is amended to include **Metro Vancouver 2040** RGS policy 5.1.2: http://www.metrovancouver.org/services/regional-planning/PlanningPublications/RGSAdoptedbyGVRDBoard.pdf, (Page #52 (#58 in Acrobat Reader):

Policy 5.1.2:

... Metro Vancouver's priorities for the expansion of the Frequent Transit Network and other transit services are:

i) staging rapid transit expansion (busways or rail), in the following priority corridors

Priority 2:

- Connecting Surrey Metro Centre to one or more of the following Urban Centres south of the Fraser River: Fleetwood Municipal Town Centre, Guildford Municipal Town Centre, Newton Municipal Town Centre, and Langley Regional City Centre;
- ii) enhancing or extending the Frequent Transit Network and other transit services in the following regional corridors to reinforce Urban Centres and Frequent Transit Development Areas:
- enhanced service linking Maple Ridge Regional City Centre and Langley Regional City Centre to each other, to Port Coquitlam Municipal Town Centre and to Coquitlam Regional City Centre and to other Urban Centres south of the Fraser River;
- enhanced service linking Semiahmoo (White Rock) Municipal Town Centre to other Urban Centres south of the Fraser River;

- Implementation Agreements -

**** An *Implementation Agreement* (IA) is a legally enforceable <u>contract</u> between a Regional District and senior level(s) of govt (a contract between Metro Vancouver and the BC and or Canada govts)...

An IA could require <u>specific actions</u> from the govt of BC and or govt of Canada to enable and facilitate the implementation of a Regional Growth Strategy, and or an RGS's <u>objectives</u> and <u>actions</u>...

... such as the govts of BC & or Canada regularly providing \$\$ funding to pay for:

- Construction of k-12 schools;
- Construction of specifically identified major infrastructure projects;
- Implementation of crime prevention programmes;
- The establishment of a "*Metro Vancouver Police Dept*" (to replace the MV RD's member cities' police depts and RCMP detachments);

Local Government Act (RSBC) sections 435 and 451 re Implementation Agreements:

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section435 https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section451

BC govt Regional Growth Strategy booklet:

https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/local-governments/planning-land-use/rgs explanatory guide 2005.pdf

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001 13#section451

451) Implementation agreements

- (1) ... a <u>local government</u> may enter into agreements respecting the coordination of activities relating to the implementation of a regional growth strategy...
- (2) For the purposes of this section, the <u>Provincial government may enter into</u> (implementation) <u>agreements... to take actions</u> necessary to implement a <u>regional growth strategy</u>...
- (3) ... (implementation) agreements under subsection (1) may be made with the federal government and its agencies, ... boards of education (k-12 school boards), ... the South Coast British Columbia Transportation Authority, and other local authorities...

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section435

- 435) Facilitation of agreement during development of regional growth strategy
- (1) <u>The minister may appoint facilitators</u> for the purposes of this Part, <u>whose</u> <u>responsibilities are</u>
- (a) to monitor and assist local governments in reaching agreement on the acceptance of regional growth strategies during their development by
- (i) facilitating negotiations between the local governments,
- (iv) <u>facilitating the involvement of the Provincial and federal governments</u> and their agencies, ... <u>boards of education (k-12 school boards)</u>, ..., and
- (b) to assist local governments in entering into implementation agreements under section 451...

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section435

435) Facilitation of agreement during development of regional growth strategy

- (3) At any time until the end of the period for acceptance or refusal of the proposed regional growth strategy under section 436 (4) (b), the facilitator is to provide assistance referred to in subsection (1) (a) of this section if requested to do so
- (a) by the proposing board or an affected local government, or
- **(b) by an electoral area director of the proposing board**, if the request is supported by at least 2 other directors...
- (4) Once a facilitator becomes involved under subsection (3), the proposing board and affected local governments must provide information as requested by the facilitator and must otherwise cooperate with the facilitator in fulfilling his or her responsibilities...

During 2011-23 Metro Vancouver staff should have provided copies of this BC govt-produced RGS resource to MV board members & member cities' councils:

https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/local-governments/planning-land-use/rgs_explanatory_guide_2005_mdf

REGIONAL GROWTH STRATEGIES

An Explanatory Guide





BC govt explanatory guide

https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/local-governments/planning-land-use/rgs explanatory guide 2005.pdf

Page #2 (10 in Acrobat Reader):

"The modernized planning system introduces three important tools to local government- **regional growth strategies**, regional context statements and **implementation agreements**.

"Although these are separate documents, they are closely connected...."

Page #3 (11 in Acrobat Reader):

"An implementation agreement (IA) is a partnership agreement between a regional district and other levels of government, their agencies or other bodies (such as k-12 school boards)

"... which spells out the details of how certain aspects of a regional growth strategy will be carried out. "...

"For example, an agreement (IA) may relate to the construction and funding of new or upgraded highways, sewers, hospitals or regional parks..... (or k-12 schools) "

BC govt explanatory guide

Page #5 (13 in Acrobat Reader):

" Principles Underlying the (Regional Growth Strategy) Legislation

"5. Broad based consultation ...

" ... early and often

"Everyone who has to live with the outcome should have a say in the development of plans.

"This principle supports the <u>early and ongoing participation</u> of municipalities, <u>community groups</u> <u>and other interested parties</u>... "

BC govt explanatory guide

Page #7 (15 in Acrobat Reader):

"... The purpose of a regional growth strategy, established in section 428,

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001 13#section428

"... is to promote human settlement that is socially, economically and environmentally healthy and that makes efficient use of public facilities and services, land and other resources

"The RGS should also be comprehensive, including social, economic and environmental matters.

"In addition, population and employment projections must be prepared.

"A list of actions to meet projected needs completes the provincial governments requirements..."

BC govt explanatory guide

Page #14 (22 in Acrobat Reader):

"... Intergovernmental Advisory Committees

" Once a growth strategy has been initiated, the regional district would form an intergovernmental advisory committee (IAC), as required under **Section 450**.

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001 13#section450

"... This committee would include senior local government staff and senior provincial staff from appropriate ministries and agencies, plus invited others.

"Representatives of other authorities, such as the federal government or school districts can be invited to sit on an IAC, fostering broad involvement on an early and ongoing basis.

"The role of the IAC is to advise a regional district on the development of an RGS and to help coordinate provincial and local government actions, policies and programs as they relate to the strategy...

BC govt explanatory guide

Page #14 (22 in Acrobat Reader):

"... Intergovernmental Advisory Committees

"A key aspect of the IAC is to inform the local government process by providing a forum for provincial and local government senior staff to come to the table at the beginning of the process to discuss provincial interests

and the tools the provincial government is prepared to use to support particular outcomes

and to develop strategies for implementing common provincial/ local objectives.... "

BC govt explanatory guide

Page #28 (36 in Acrobat Reader):

"... Achieving Implementation Agreements

"The legislation also provides for implementation agreements (IAs) between the regional district and other bodies where cooperation is required to implement the strategy (Section 451:

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section451)

"The primary focus will be on provincial ministries and agencies.

"However, it could include others, such as the regional district's member Municipalities... or other local bodies such as airport or port authorities (or k-12 school boards, police departments)

"Implementation agreements are an important tool designed to promote coordinated local/ provincial actions.

"... IAs can deal with a wide range of matters...."

BC govt explanatory guide

Page 28 (36 in Acrobat Reader):

"... Achieving Implementation Agreements

"These agreements are the primary means for the <u>regional district</u> and the <u>provincial government to commit to actions on implementation of the RGS</u>-for example, <u>infrastructure investments</u>, programs and policies.

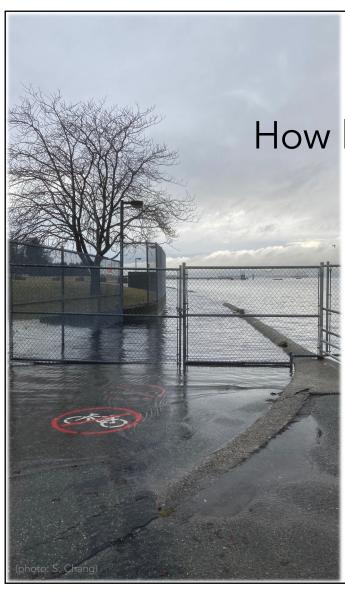
"The content of these agreements vary by region...

"For example, in the GVRD a primary focus is transit infrastructure investments and supportive land use patterns...

"... the minister-appointed facilitator, under section 435

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/r15001_13#section451

"... <u>could provide assistance</u> to the regional district and its member municipalities in entering into implementation agreements with each other, the provincial government and others (such as k-12 school boards)... "



How land-use planning and urban form can support climate action

Overview of key concepts

Stephanie Chang

University of British Columbia

School of Community and Regional Planning (SCARP) and Institute for Resources, Environment and Sustainability (IRES)

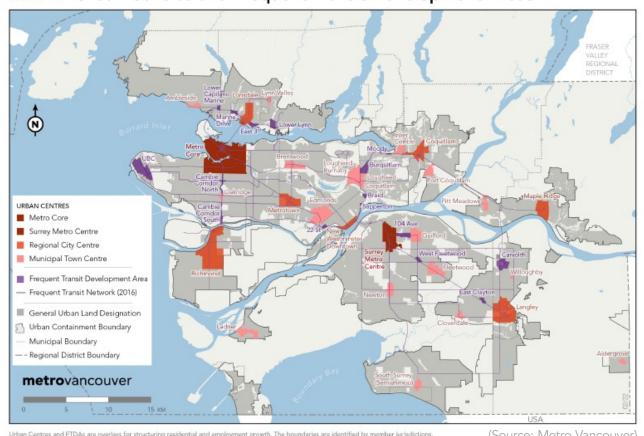
Metro Vancouver Regional Planning Committee meeting ◆ March 10, 2023

Land Use Planning and Urban Form – Metro 2050

"where and how we build"

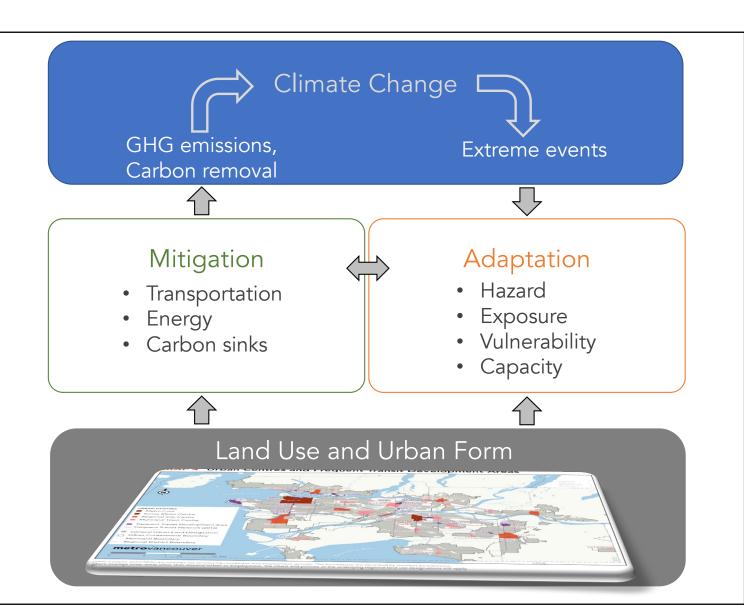
- **Urban Containment Boundary**
- Urban Centres, Frequent Transit Development Areas
- Complete Communities
- Coordinate transportation and land use planning
- Support sustainable transportation

MAP 4 Urban Centres and Frequent Transit Development Areas



Urban Centres and FTDAs are overlays for structuring residential and employment growth. The boundaries are identified by member jurisdictions. Where overlays cover areas other than General Urban or Employment, the intent and policies of the underlying regional land use designations still apply (Source: Metro Vancouver)

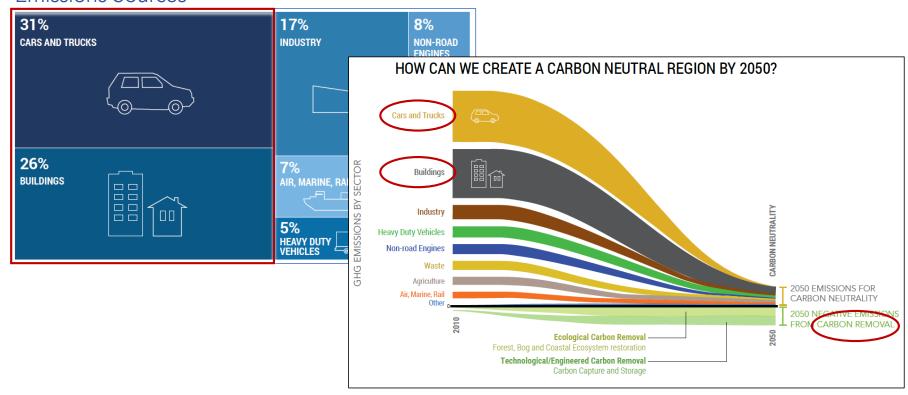




Regional GHG Emissions

Metro Vancouver (2019) Climate 2050 Strategic Framework

Emissions Sources



Transportation

"travel is derived demand"





Doubling density associated with 48% reduction in CO_2 emissions from household travel

- Lee and Lee (2014) in Energy Policy

GHG emissions



TRAVEL DEMAND

(vehicle kilometres traveled, VKT)



- Number of trips by origin
- Trip destinations
- Mode choice
- Route choice



Land Use and Urban Form The state of the s

Energy

Energy efficiencies – multi-unit structure types

(US) Comparable households in single-family detached units consume 54% more energy for heating and 26% more for cooling than those in multi-family dwellings.

Energy for heating, cooling, and all other uses increases with house size.

- Ewing and Rong (2008) in Housing Policy Debate





ENERGY DEMAND & SUPPLY



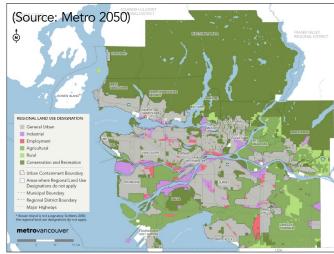
- Residential energy consumption
- District energy systems





Greenspace

MAP 2 Regional Land Use Designations





Co-benefits

Carbon removal



CARBON SINKS

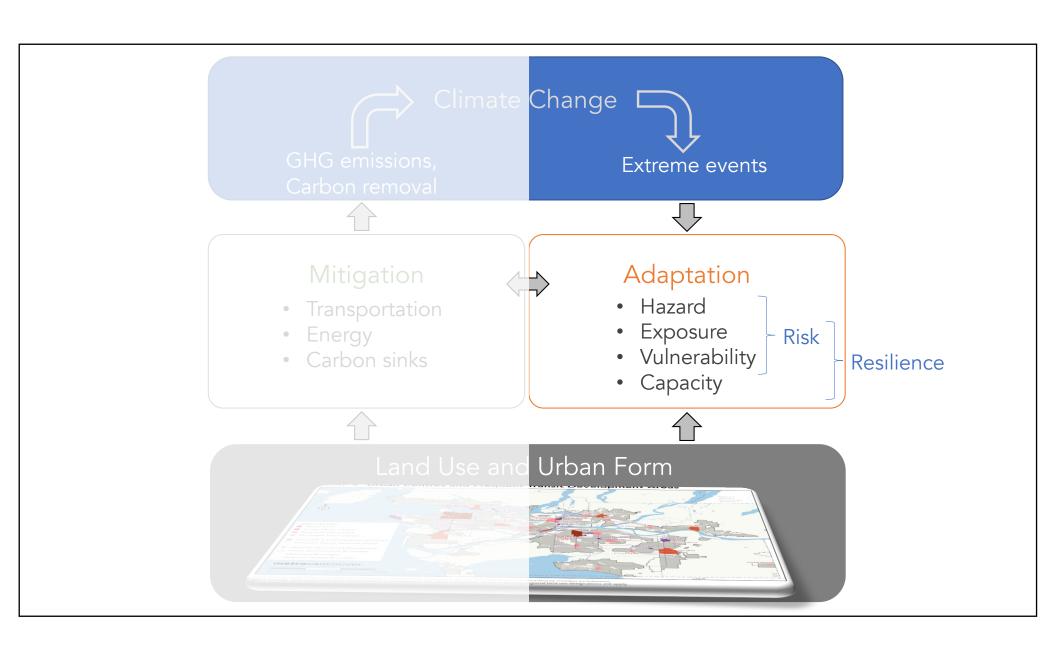


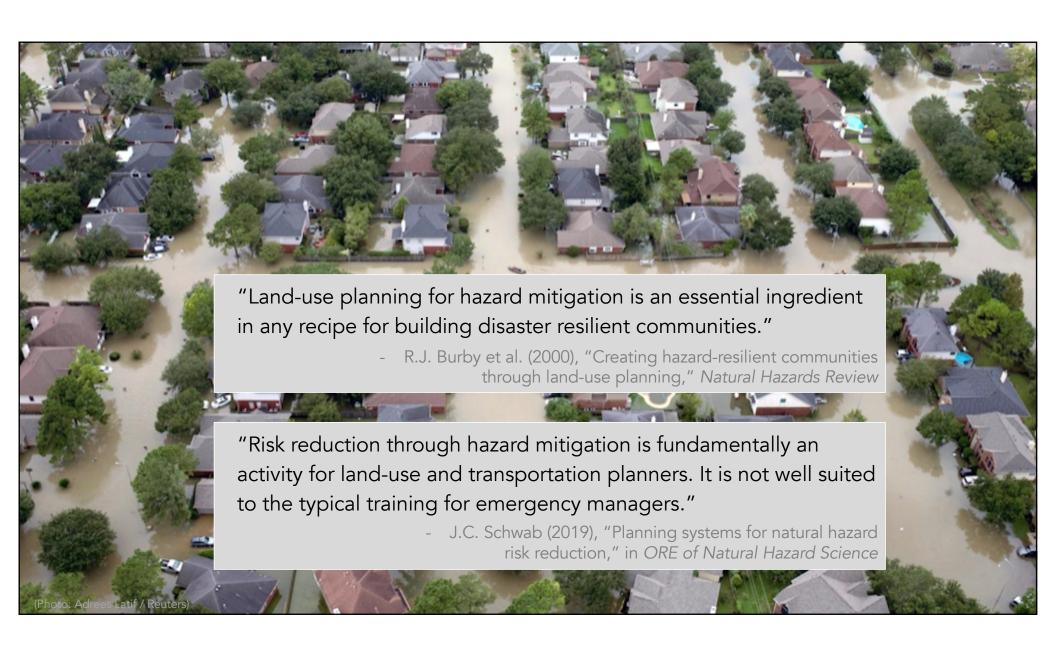
- Forest, bog, and coastal ecosystem restoration
- Street trees, parks



Land Use and Urban Form







Exposure

SLR adaptation strategies*



Caution

Levee effect



Extreme events



EXPOSURE



- Development on floodplain
- Land use restrictions on floodplain



Land Use and Urban Form

(*Figure: New Zealand Ministry for the Environment)

Hazard

(US, 1956~2005) Rate of increase in annual extreme heat events in the most sprawling metropolitan regions was more than double the rate of increase in the most compact metropolitan regions.

- Stone et al. (2010) in Environmental Health Persp.

Green infrastructure



Extreme events



HAZARD



- Urban heat island
- Impervious surfaces
- Wave attenuation
- Floodwater retention



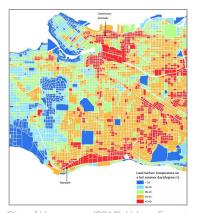
Land Use and Urban Form



Vulnerability and Capacity

The key interventions needed to address social vulnerability [to disasters] are generic and include measures such as strong social safety nets, access to health services, and community cohesion.

- CCA (2022) Building a Resilient Canada



Urban resilience is shaped by who defines the agenda, whose resilience is being prioritized, and who benefits or loses as a result.

> - Meerow et al. (2016) in Landscape and Urban Planning

City of Vancouver (2018) Urban Forestry Strategy

Extreme events



VULNERABILITY --- CAPACITY



- Building codes and standards
- Equitable access to greenspace
- Community cohesion
- Food security
- Housing affordability



Land Use and Urban Form



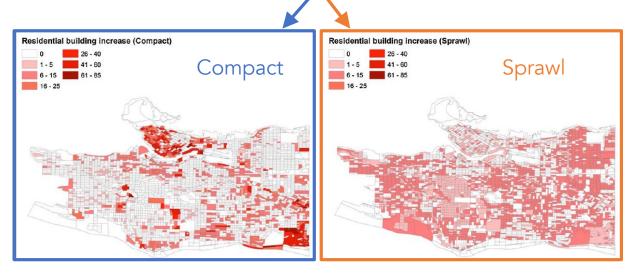
Conflicts and Trade-offs

+ projected population increase to 2041

There is no clear "winner" in terms of a development pattern that is best for minimizing future risk. Nonetheless, most of the comparisons suggest that compact development would exacerbate disaster risk...

In promoting compact development, planners must pay attention to and address the implications for natural hazard risk.

- S.E. Chang, J. Yip, W. Tse (2019) in Natural Hazards



Coastal flooding (from 1:50 year storm + 1m SLR)

more building debris

 more vulnerable population affected

Key Concepts

Land use and urban form can support climate action by

- Reducing travel demand
- Reducing energy demand
- Facilitating renewable energy sources Reducing vulnerability
- Increasing carbon sinks

- Reducing hazards
- Reducing exposure to hazards
- Enhancing capacity

Climate change mitigation and adaptation actions may

- Provide co-benefits
- Be synergistic
- Entail trade-offs or conflicts



Regional Planning Environment Portfolio

AN INTRODUCTION AND 2023 PRIORITIES

Laurie Bates-Frymel

Senior Planner (Environment), Regional Planning and Housing Services

Edward Nichol

Planner (Environment), Regional Planning and Housing Services

metrovancouver

Regional Planning Committee | March 10, 2023

OUTLINE

- Metro 2050 Goal 3
- Major Projects
 - Sensitive Ecosystem Inventory
 - Tree canopy cover dataset + regulations toolkit
 - Natural Hazard Data Inventory (NEW)
 - Climate 2050 Nature and Ecosystems Roadmap (NEW)
 - Regional Green Infrastructure Network (NEW)
- Coordination with member jurisdictions

NEW IN GOAL 3 METRO 2050

- Ecosystem Services
- Sensitive Ecosystem Inventory
- Regional urban tree canopy cover and nature protection targets
- Regional Green Infrastructure Network
- Natural Hazard and Risk Data



Ecosystem Services



Sensitive Ecosystem Inventory

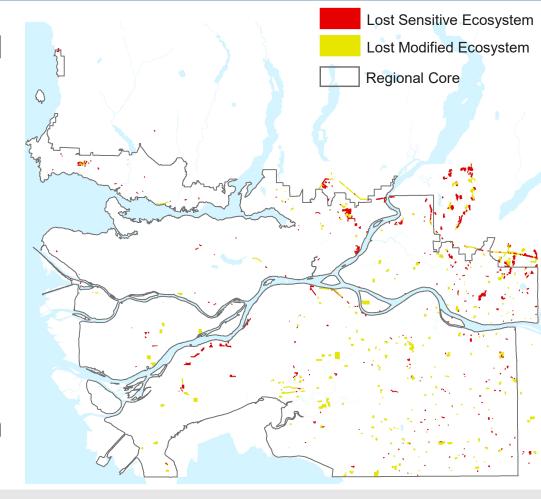




SENSITIVE ECOSYSTEM CHANGE

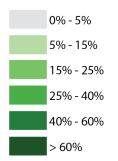
From 2009 to 2014

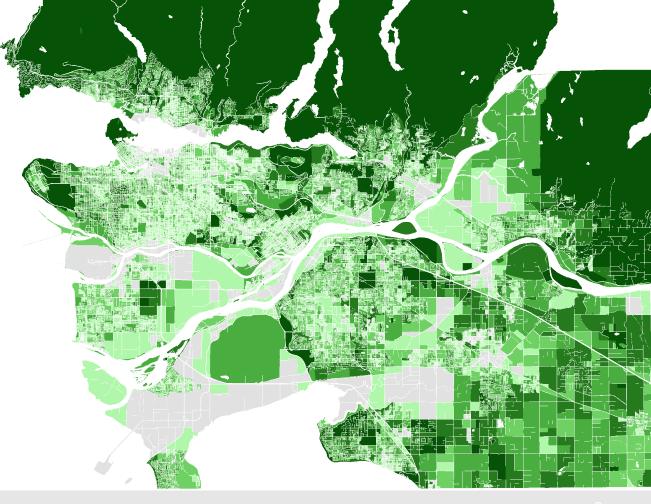
- Losses:
 - 1,600ha (1%) for the region
 - 1,200ha (3.4%) in the regional core
- No significant gains
- New data for 2020 soon



2014 Tree Canopy Cover

(percent by block)





2014 Tree Canopy Cover

(percent by block)

Urban Containment Boundary

Urban Centres

0% - 5%

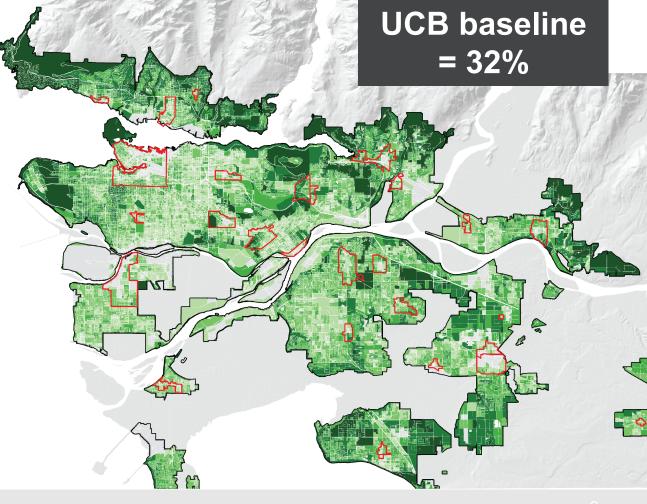
5% - 15%

15% - 25%

25% - 40%

40% - 60%

> 60%





TREE REGULATIONS TOOLKIT UPDATE

- Support local efforts
- Guidance and best practices
- Emphasis on tree bylaws
- 2023 update
 - Strengthen content related to land use
- Suite of resources

NATURAL HAZARD DATA INVENTORY

- Key information on hazard data
- Data gaps
- Considerations and best practices
- Shared understanding of risk
- Baseline to inform future work



NATURE & ECOSYSTEMS

Climate 2050 Roadmap

- Implement the regional vision
- Connection to Metro 2050
- Strategies
 - Protect, Restore Ecosystems
 - Connect Green Infrastructure
 - Integrate Natural Assets
 - Support the Urban Forest
 - Advance Nature-based Solutions



CLIMATE 2050 Roadmap

Nature and Ecosystems

A pathway to storing carbon and building a resilient future with Nature and Ecosystems

April 2022
DRAFT

GREEN INFRASTRUCTURE

Regional Green Infrastructure Network

Natural Assets

- Wetlands
- Forests
- Parks
- Lakes/Rivers/ Creeks
- Fields
- Soil



Enhanced Assets

- Rain Gardens
- Bioswales
- Urban Trees
- Urban Parks
- Biomimicry
- Stormwater Pond



Engineered Assets

- Permeable Pavement
- Green Roofs
- Rain Barrels
- Green Walls
- Cisterns



Regional Green Infrastructure Network





Thank you



Social Equity Spatial Analysis Case Studies

Erin Rennie

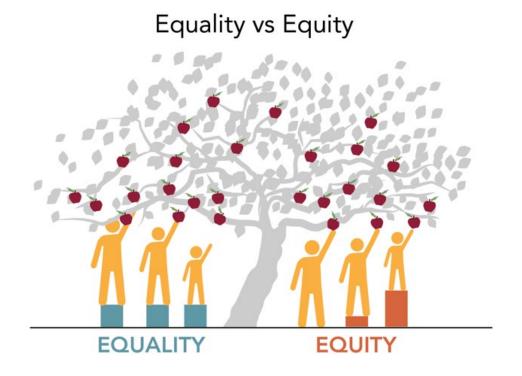
Senior Planner, Regional Planning and Housing Services

Regional Planning Committee | March 10, 2023

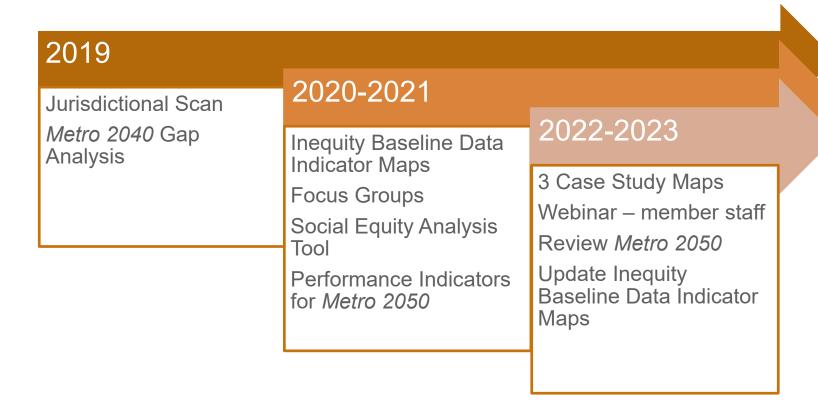
EQUITY, DIVERSITY AND INCLUSION

Applying an equity, diversity, and inclusion (EDI) lens to all levels of planning practice is required to confront and address systemic racism and discrimination in the governance systems, practices, and policies that planners implement, create, and influence.

- Canadian Institute of Planners

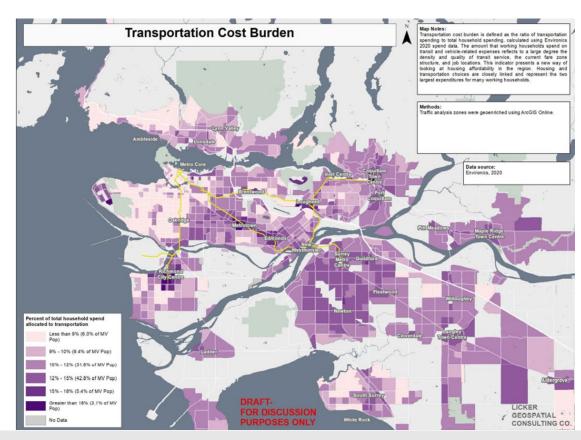


PROJECT HISTORY



PHASE 2 – EQUITY INDICATOR MAPS

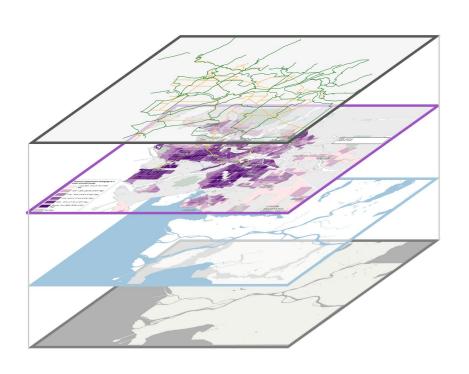
- 49 equity indicator maps
- Available as GIS data on request
- Request for more guidance on how to use



OBJECTIVES OF SPATIAL ANALYSIS PROJECT

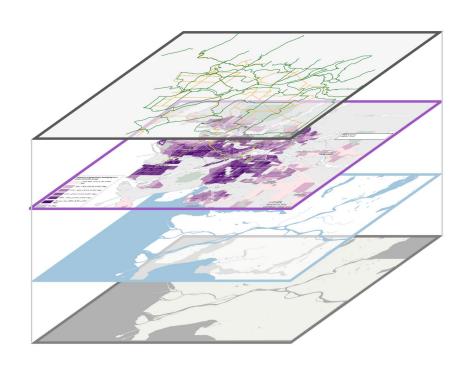
- 1. Provide equity analysis for practical, on-the-ground planning work in the region
- 2. Demonstrate a process of using social equity spatial analysis to support better more equitable decision-making
- 3. Learn and improve on the process and share what works

PUTTING THE EQUITY INDICATOR MAPS TO WORK



- Case study ideas survey
- Building the map:
 - Select indicators
 - Apply weights
 - Make index
- Steering Committee / Peer Review

CASE STUDY 1: TREE PLANTING PRIORITY

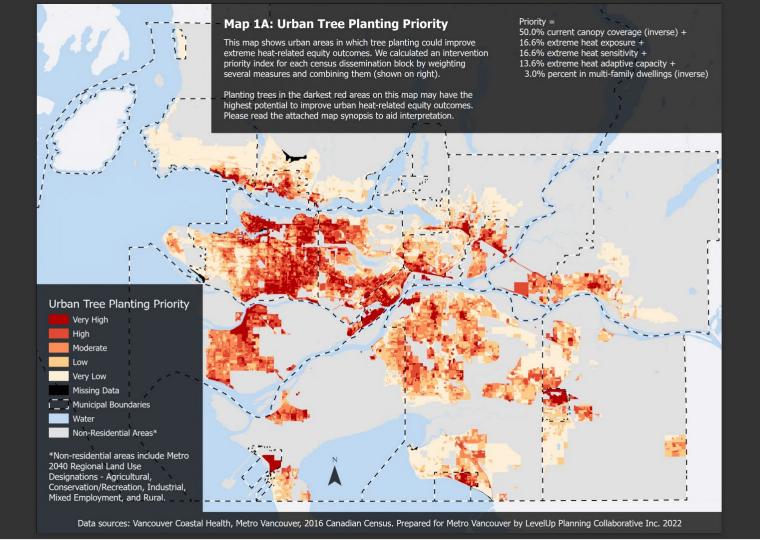


Tree Canopy Cover

Extreme Heat Sensitivity and Adaptive Capacity

Extreme Heat Exposure

% in Multifamily Dwellings



Map 1B: Surrey Urban Tree Planting Priority

This map shows urban areas in which tree planting could improve extreme heat-related equity outcomes. We calculated an intervention priority index for each census dissemination block by weighting several measures and combining them (shown on right). The index was recalculated only including Surrey for this map.

Planting trees in the darkest red areas on this map may have the highest potential to improve urban heatrelated equity outcomes. Please read the attached map synopsis to aid interpretation. Priority =

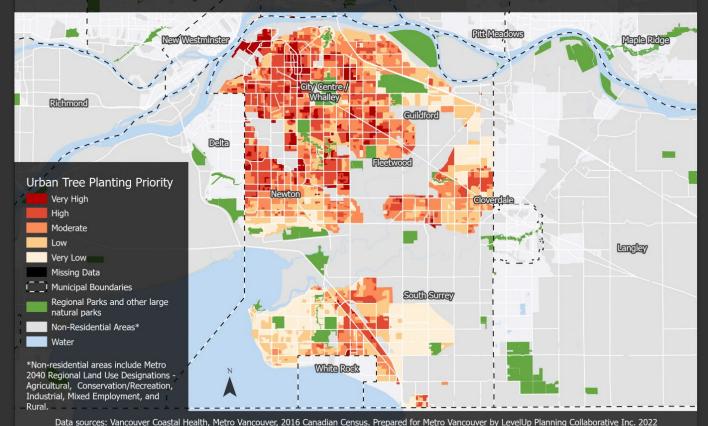
50.0% current canopy coverage (inverse) +

16.6% extreme heat exposure +

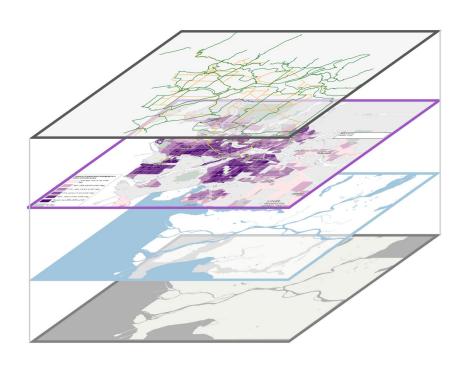
16.6% extreme heat sensitivity +

13.6% extreme heat adaptive capacity +

3.0% percent in multi-family dwellings (inverse)



CASE STUDY 2: PARK LAND ACQUISITION PRIORITY

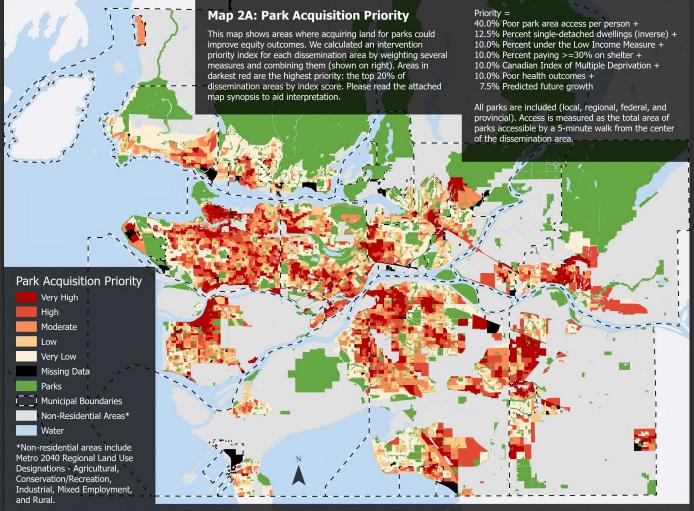


Per person park area access (5min walk)

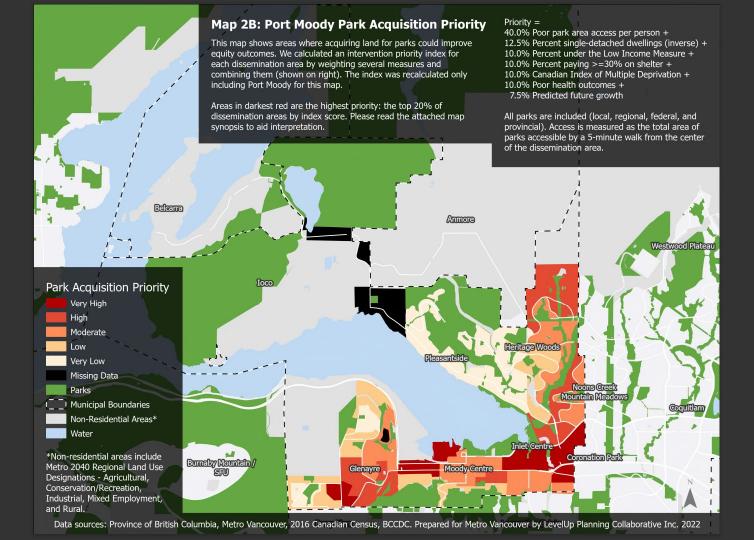
Social equity measures:

- Low Income Measure
- %paying >30% on shelter
- Canadian Index of Multiple Deprivation
- Health outcomes

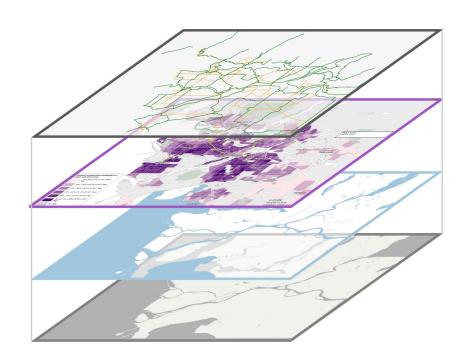
Projected population growth % in Multifamily Dwellings



Data sources: Province of British Columbia, Metro Vancouver, 2016 Canadian Census, BCCDC. Prepared for Metro Vancouver by LevelUp Planning Collaborative Inc. 2022



CASE STUDY 3: LARGE PARK TRANSIT IMPROVEMENT PRIORITY



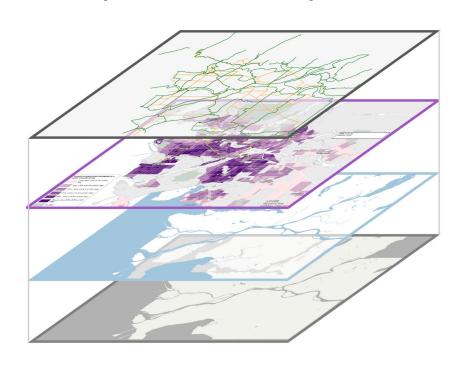
Per person park area access (60 min on transit)

Social equity measures:

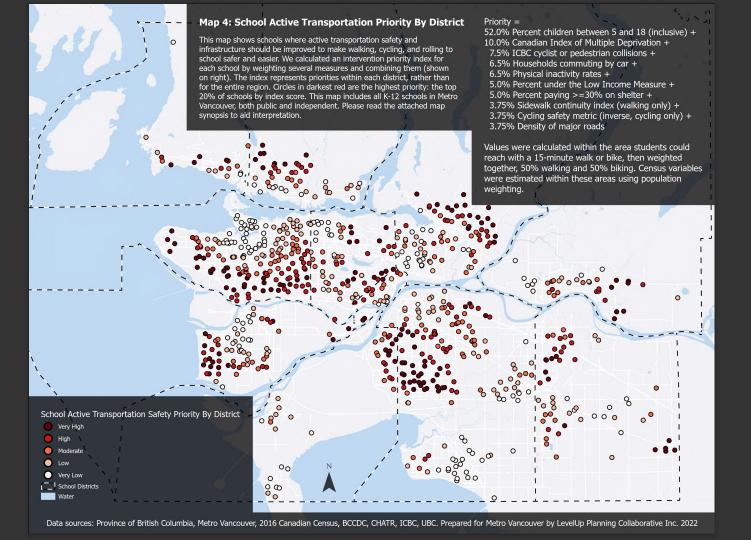
- Low Income Measure
- %paying >30% on shelter
- Canadian Index of Multiple Deprivation
- Health outcomes

Projected population growth % in Multifamily Dwellings

CASE STUDY 4: SCHOOL ACTIVE TRAVEL IMPROVEMENT PRIORITY (BY DISTRICT)



- % aged 5-18
- Low Income Measure
- %paying >30% on shelter
- Canadian Index of Multiple Deprivation
- ICBC ped/cycle collisions
- driving mode share
- sidewalk continuity
- cycle safety metric
- density of major roads



LESSONS LEARNED AND NEXT STEPS

- Need for more community engagement to improve quality of the studies
- Additional local analysis and engagement needed
- Report with maps to be published on website
- Data available on request





Thank you