RETISSER LA VILLE **FIXING** THE CITY ::-CanU10





Fixing the City: From Coast to Coast

CanU10, Montréal, October 2018

David Gordon – Moderator
Jacob Ritchie – Atlantic Canada
Catherine Boisclair – Québec
John Smit – Eastern Ontario
Lorna Day – Toronto
Alex Taranu – GTA
Ute Maya-Giambattista – Western Ontario
Barbara Myers – Prairies
Joyce Drohan - BC

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Is There a Canadian Urbanism?

CanU10, Montréal, October 2018

Dr. David Gordon FCIP RPP AICP

Professor, Queen's School of Urban & Regional Planning

Council for Canadian Urbanism Research Chair





Distinctive Canadian Urbanism

Evolved over time

- Historical context:
 - Constitutional
 - Political
 - Social
 - Cultural









Distinctive Canadian Urbanism

Montréal ##

Affected by:

Landscape

Climate



Montread (wookiyeerd (acorb))







Why Is It Distinctive?

- Comfortable with contemporary architecture
- Comfortable with density
- Moves towards sustainability







Benny Farm, Montréal (ArchNewsNow.com)



Why Is It Distinctive?

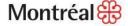
 Community infrastructure

 Partnerships led by the public sector







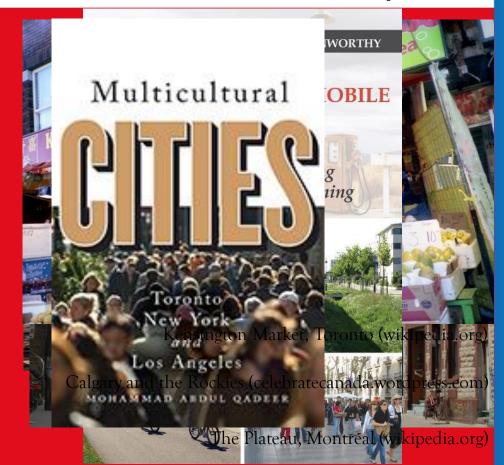


Distinctly Different From USA & Europe

- Multi-cultural cities (Qadeer 2016)
- High Livability / Quality of Life

(Economist 2018; Mercer 2018)

- Two hours' driving distance to wilderness
- CBD living never abandoned
- Moderate transit use
 (Newman & Kenworthy 2015)







Distinctively Different from the U.S.?



• Affected ERICA'S
(200 J.R.B.AN FUTURE

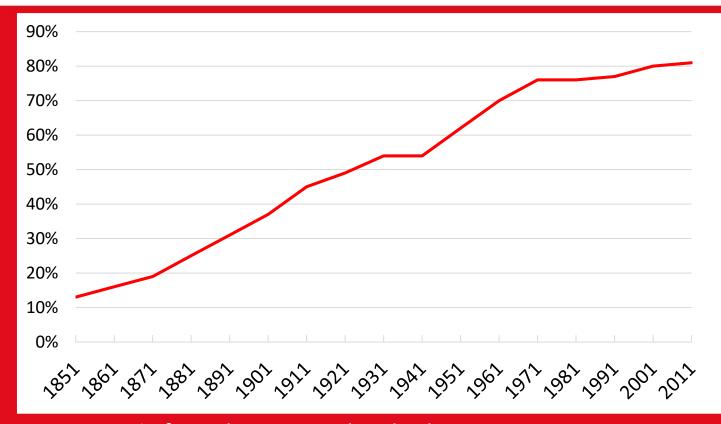
Newman & Kenworthy 2015)
Lessons from North of the Border







Canada is an Increasingly Urban Society





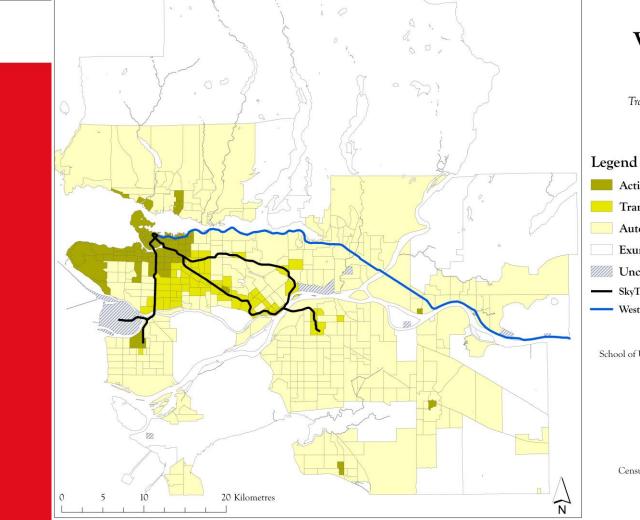


Or is it?





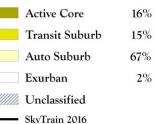




Vancouver 2016

Transportation T9 Method

Population



Queen's University School of Urban & Regional Planning

West Coast Express 2016

Principal Investigator:

David Gordon

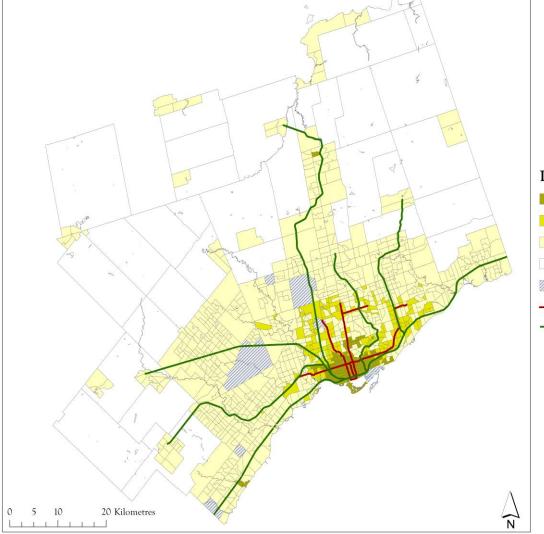
Research Assistants: Lyra Hindrichs Shuhong Lin Chris Willms

2016 Census

Census Tract & Population Data:









15%

70%

3%

Transportation T9 Method

Population Legend Active Core 12% Transit Suburb

> Auto Suburb Exurban

Unclassified

TTC Subway & LRT 2016

GO Transit 2016

Queen's University School of Urban & Regional Planning

Principal Investigator: David Gordon

Research Assistants: Lyra Hindrichs Shuhong Lin Ben McCauley

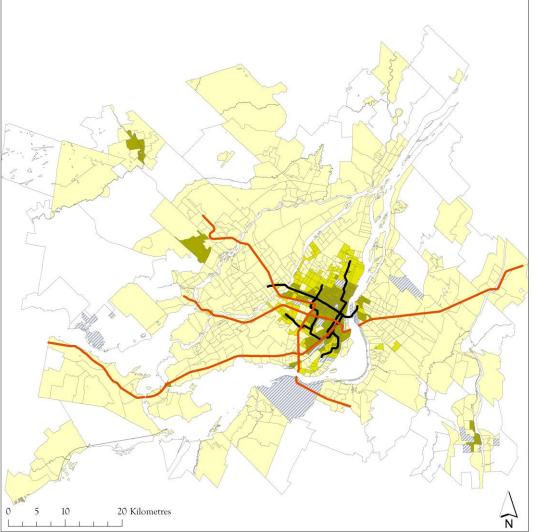
Chris Willms

Census Tract & Population Data: 2016 Census



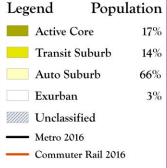






Montréal 2016

Transportation T9 Method



Queen's University School of Urban & Regional Planning

> Principal Investigator: David Gordon

Research Assistants: Lyra Hindrichs Chris Willms

Census Tract & Population Data: 2016 Census





Percentage of Suburbs, 2016 Census

СМА	2016 Population	Active Core	Transit Suburb	Auto Suburb	Exurban
Calgary	1,392,609	12%	9%	76%	3%
Halifax	403,390	15%	13%	48%	24%
Montréal	4,098,927	17%	14%	66%	3%
Ottawa-Gatineau	1,323,783	15%	9%	62%	14%
Québec	800,296	19%	10%	56%	15%
Toronto	5,928,040	12%	15%	70%	3%
Vancouver	2,463,431	16%	15%	67%	2%
Canada's CMAs	24,945,123	14%	12%	67%	8%

CMA Suburbs 19,601,652

<u>CA Suburbs</u> 2,621,199

CMA and CA Suburbs 22,222,851

50% Exurban 1,486,183

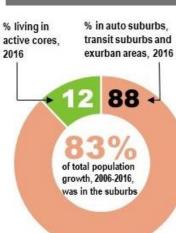
Total 2016 *Suburb* Pop. (estimated) 23,709,034

Total 2016 *National* Pop. 35,151,728 (67.5% suburban)









Cities' Population Growth is in the Suburbs, 2006-2016

Toronto:

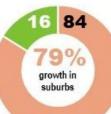
2016 CMA population 5,928,040

- In the '416' area, 82% of the growth is in active cores and transit suburbs
- In the '905' area, 99% of growth is in the auto suburb and exurban areas.



4,098,927

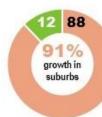
- About 226,000 more people now live off the Island of Montréal than on it.
- On island, 76% of growth is in core and transit areas; off island, 93% of growth is in auto and exurban areas



Vancouver:

2,463,431

- In City of Vancouver, 96% of growth is in core and transit areas.
- In surrounding region it's opposite: 83% of growth is in auto and exurban areas.



Calgary:

1.392.609

- Fastest growing CMA in Canada from 2006-16 (29% or 313,000).
- Third-most percentage growth among all CMAs in auto and exurban areas (31%)

Infographic created by Chris Willms School of Urban and Regional Planning, Queen's University



83

growth in

suburbs

Ottawa-Gatineau:

1.323.783

- In the O-G CMA, more people lived outside the Greenbelt & in Gatineau than inside the Greenbelt
- Least growth in transit and core areas of any major CMA (10,000 or 3%).
- Fastest growing exurbs among large CMAs (21% of total growth)



Edmonton:

1.321.426

- Second-fastest growing CMA in Canada from 2006-16 (27% or 283,000)
- Most percentage growth among all CMAs in auto and exurban areas (33%)





CMA Growth Rates in Canada

М	ont	réal	6	3
IVI	OHL	Cai	الم	٦

	2006	2016	Share of Growth		
Total Population (33 CMAs)	21,506,000	24,724,000	3,218,000		
Active Core	3,107,000	3,373,000	266,000	8%	401 000 150/
Transit Suburbs	2,708,000	2,923,000	215,000	7%	481,000 15%
Auto Suburbs	14,100,000	16,524,000	2,424,000	75%	2 729 000 959/
Exurban	1,573,000	1,887,000	314,000	10%	2,738,000 85%



Statistics Canada census data 2006 and 2016





But what of the Canadian suburbs?

- 67% of all
 Canadians live in suburbs, mostly built since WW II
- Auto suburbs still growing fast
- Not as many gated communities







Summary: Distinctive Canadian Urbanism?

- Evolved over time
- Affected by landscape
- Affected by climate
- P3s led by public sector
- Mostly suburban

- Evolved within a distinct historical context:
 - Constitutional
 - Political
 - Social
 - Cultural











Fredericton – Co-Location









Saint John – Jelly Bean Houses

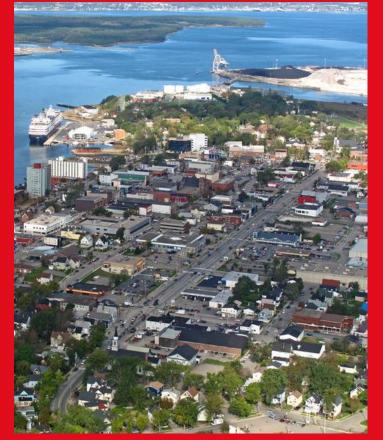








Sydney – Locating Institutions







SYDNEY, N.S. — The province committed on Friday to relocating the Nova Scotia Community College Marconi campus to downtown Sydney, a massive infrastructure project Premier Stephen McNeil says will become an "economic driver" for the area.

"I don't want this idea sitting on a blueprint. ... This project is moving. We're doing it," McNeil said before being interrupted by applause and then a standing ovation.

During the provincial election campaign in May, McNeil, who was seeking a second mandate for his Liberal government, said he promised to review options for moving the NSCC Marconi campus to the Sydney waterfront.





Halifax – Bus Network Redo







Halifax – Bridge Fix for AAA









Halifax – Bridge Fix for AAA







Halifax – Spring Garden Road









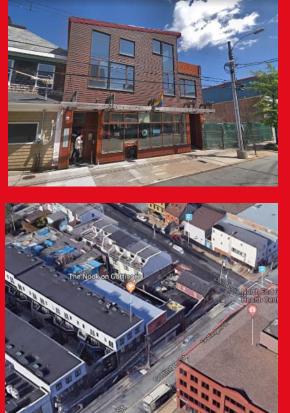
Halifax - Spring Garden Road







Halifax - Gottingen Infill



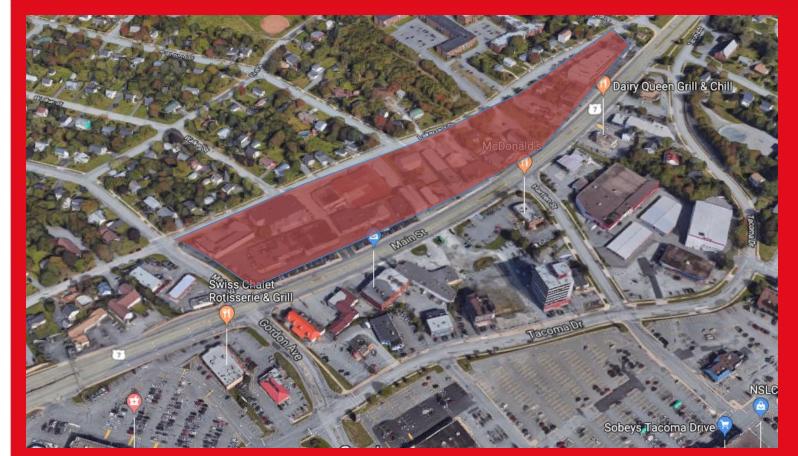








Dartmouth – Breaking a Super Block







Dartmouth – Breaking a Super Block

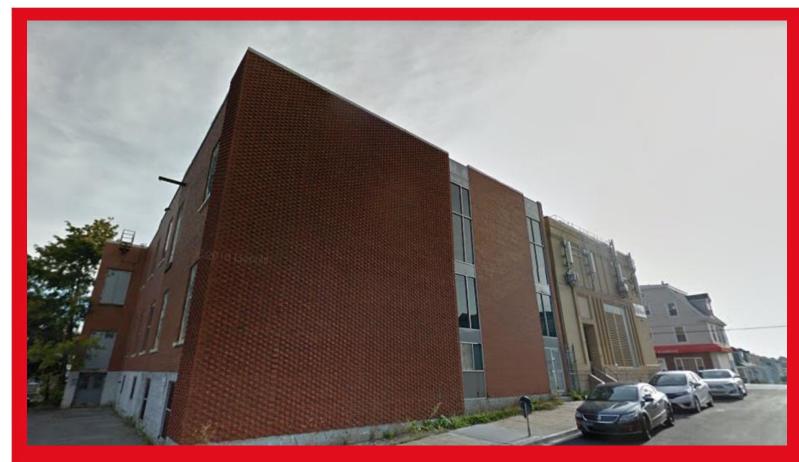






Dartmouth - Bell Lofts









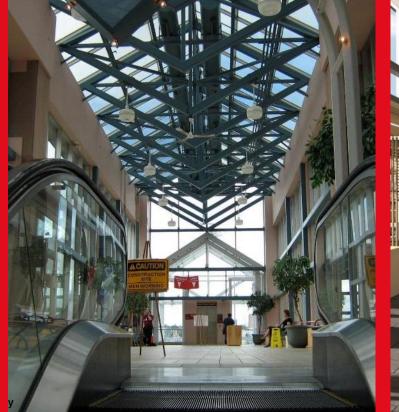
Dartmouth - Bell Lofts







Dartmouth – Ferry Pedway





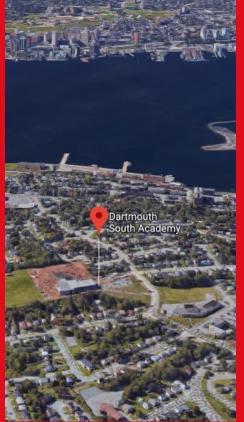




Dartmouth – Dartmouth South Academy











Halifax – Lemarchant St. Thomas









Dartmouth - Sportsplex







Dartmouth – Sportsplex







Montréal **₩**





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Québec (excluding Montréal) CanU10, Montréal, October 2018

Catherine Boisclair Coordonnatrice de projet, Vivre en Ville Québec, QC



Montréal ₩

Quebec City: New Integrated Transit Network









Quebec City: New Urban Centers Along The Network





Hamel / Laurentienne urban center





Quebec City: New Urban Centres Along The Network





Hamel / Laurentienne urban Unter





Quebec City: a city-led redevelopment

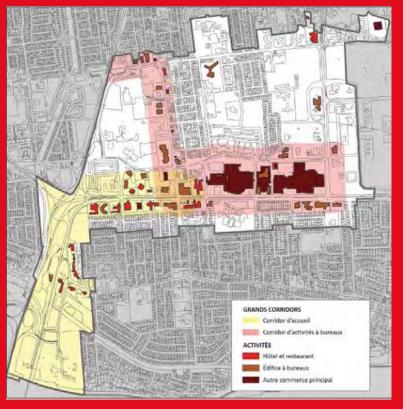
Montréal #







Detailed planning – Plateau centre de Ste-Foy











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New proposals – Plateau centre de Ste-Foy





État actuel - Laurier Québec



Simulation - Laurier Québec

Source : Ville de Québec





Gatineau: Heritage Designation for Museum District

Montréal #









Gatineau: Heritage Designation for Museum District









Alliance Ariane – for a Quebec Territorial Planning Policy

Large consensus – a necessary policy

Montréal #

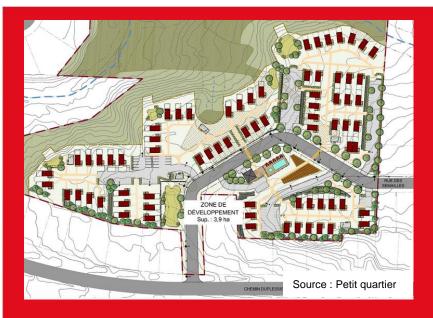








Small is beautiful - tiny houses





Entire neighbourhoods of tiny houses Or a way to consolidate existing neighbourhoods?







Possible replacement of referendums











Yes In My Backyard Québec – Vivre en Ville







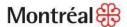


Ouidansmacour.quebec

Yimby.quebec



Yes In My Backyard Québec – Vivre en Ville







Video at Yimby.quebec





Chibougameau - Public Spaces in a Nordic Context

Source: Ville de Chibougameau et Groupe A / Annexe U

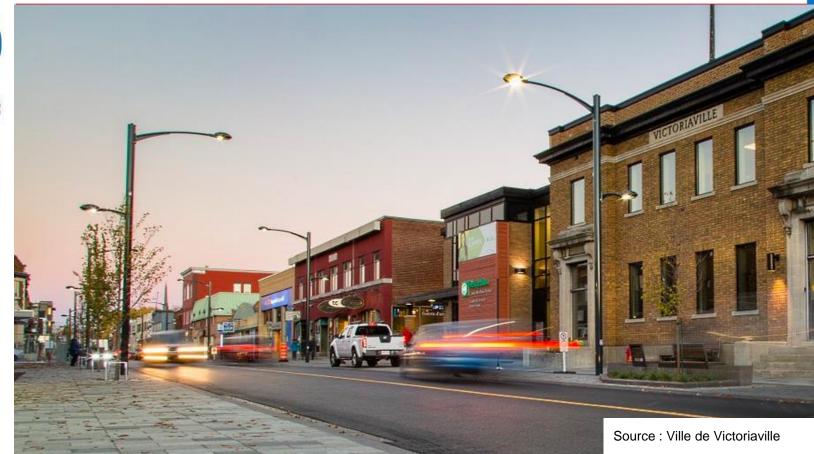






Main Street Refurbishment - Victoriaville







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Ontario:
Ottawa, NCR, and Kingston

Stitching New into Existing

John Smit, MCIP RPP

Director, Economic Development and Long Range Planning, City of Ottawa







Ottawa's Emerging Western Downtown





The Stage is Being Set

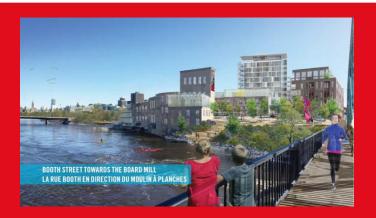






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Western Downtown – Zibi (Chadiere Island)











Western Downtown – Lebreton East











Western Downtown – Escarpment District







New Central Library







Western Downtown – Rendezvous Lebreton













Bayview Yards - Innovation Village













Montréal **₩**

900 Albert — Ottawa's Tallest Building













Tunney's Pasture — Redefining an Employment Node













Montréal ₩

Booth Street Complex — Ottawa's Distillery District













Arts Court — New Life for the Art's Precinct











Greystone Village – New Inner City Community















Wateridge Village — CFB Rockliffe Transformation













NCC SJAM Riverfront Park











Gatineau LRT

- Gatineau reveals \$2.1B LRT plan, eyes 2028 launch
- Ambitious plan covers 26 km, includes 2 links to Ottawa's light rail system (CBC June 20, 2018)











Montréal ₩

Kingston – Breakwater Park & Gord Downie Pier











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FIXING THE CITY

Lorna Day, B.Arch MCIP RPP
Director of Urban Design, City Planning
City of Toronto



introduction: toronto

VITAL STATS

over 2.6 million people call Toronto home every year Toronto grows by 25,000 new residents 50% of the population are immigrants over 100 languages & dialects spoken



OFFICIAL PLAN URBAN STRUCTURE

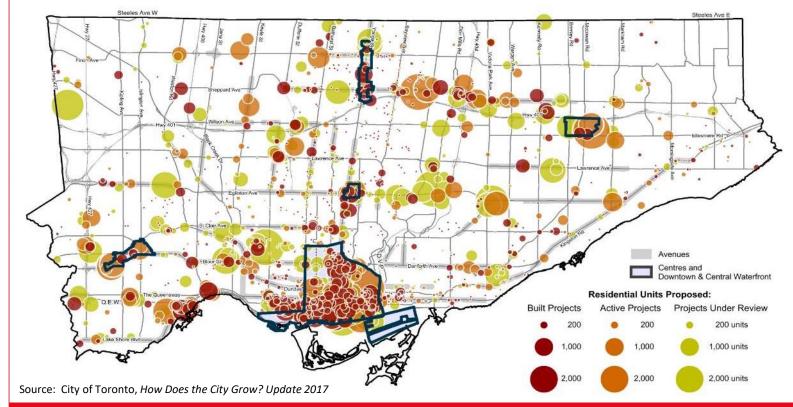








PROPOSED RESIDENTIAL DEVELOPMENT













PLANNING COMPLETE COMMUNITIES







TRANSIT NETWORKS



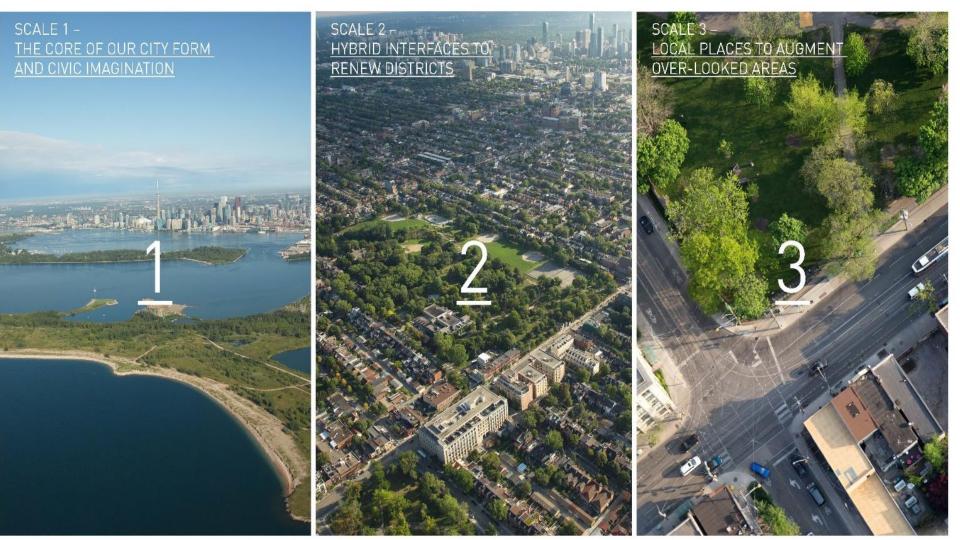








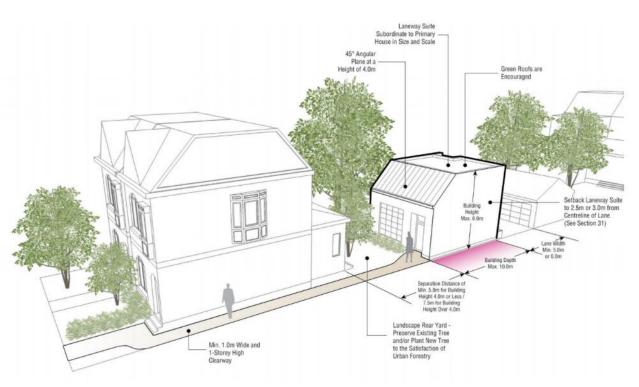


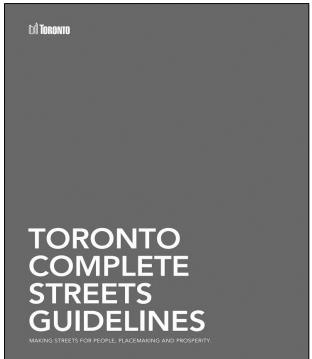




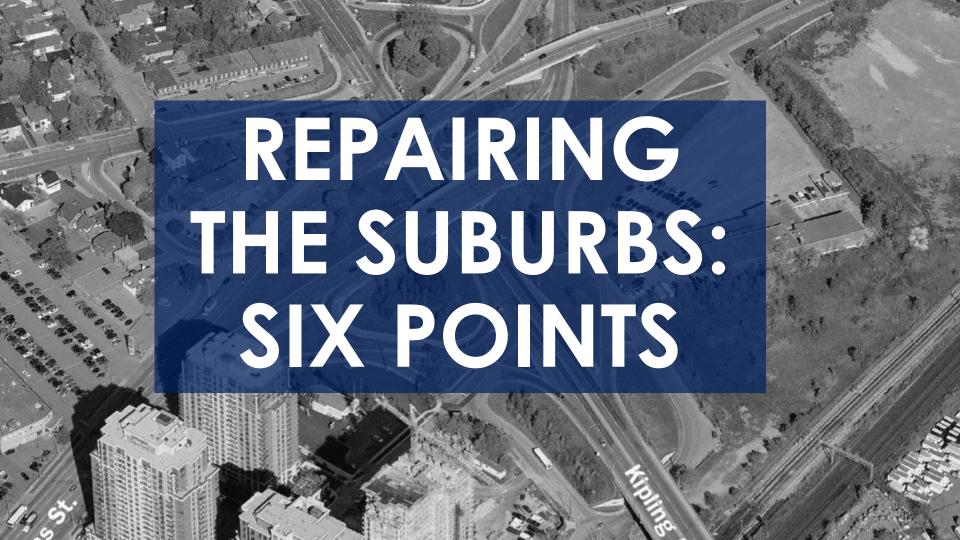


DESIGN GUIDELINES

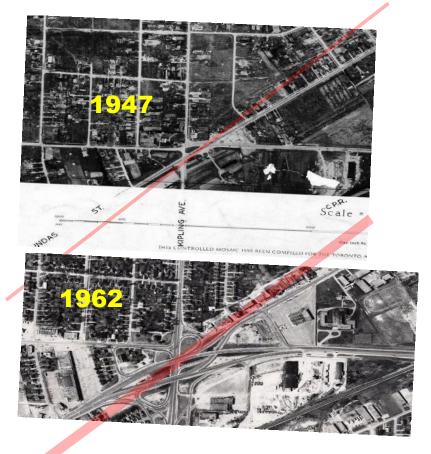








DUNDAS STREET CORRIDOR EVOLUTION

















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Montréal ##



Towards complete, healthy, sustainable, resilient, liveable communities in the regional city

Alex Taranu, OAA MRAIC FCIP RPP

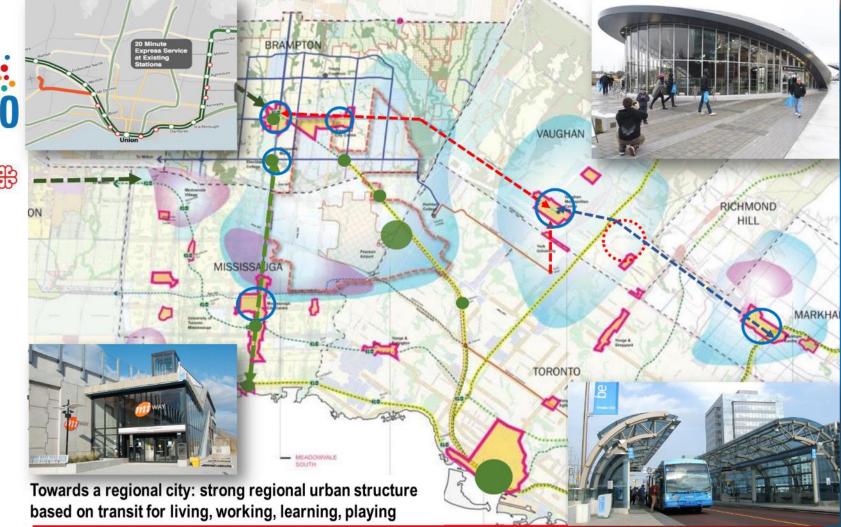
Manager, Arcitectural Design, Planning and
Building, City of Brampton





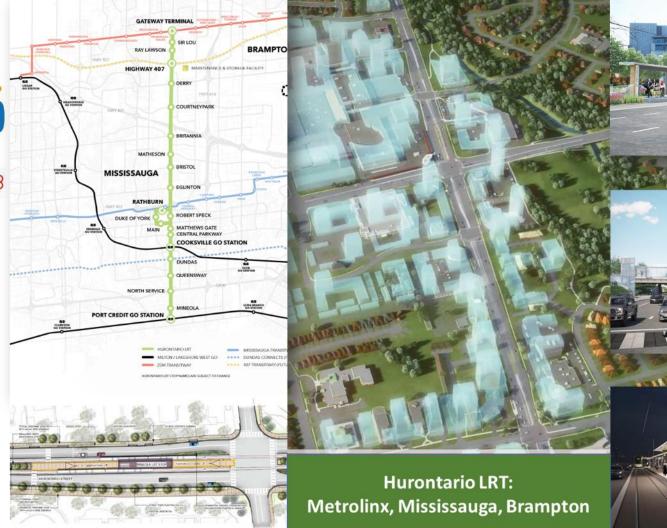


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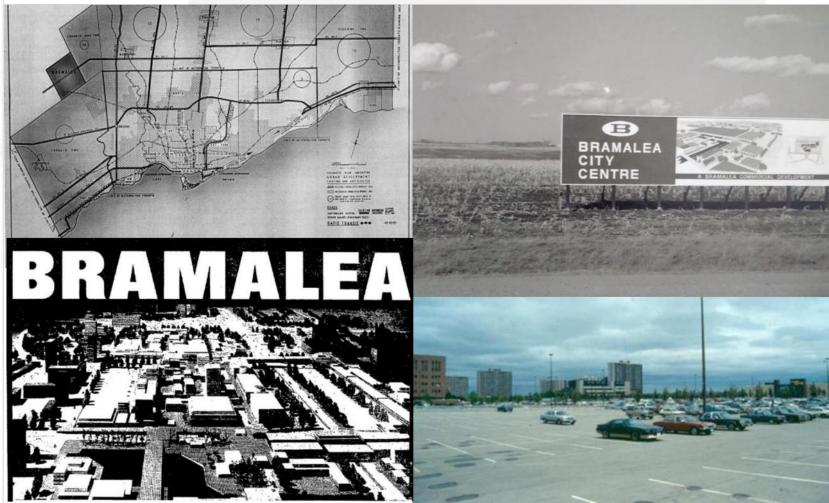




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Montréal **₩**

Forgotten History: The Brave New Town of Bramalea



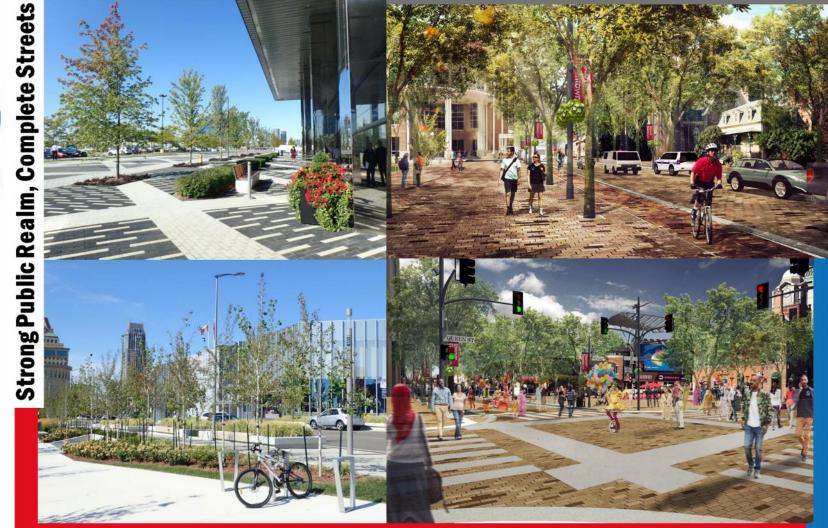




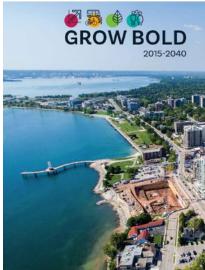














Trends – Transit based intensification and urbanization/TOD Burlington, ON

Active Transportation
Connections

Variety of Housing

New Parks &

Open Space

Attract Retail and Commercial Uses Future Public Service Facilities







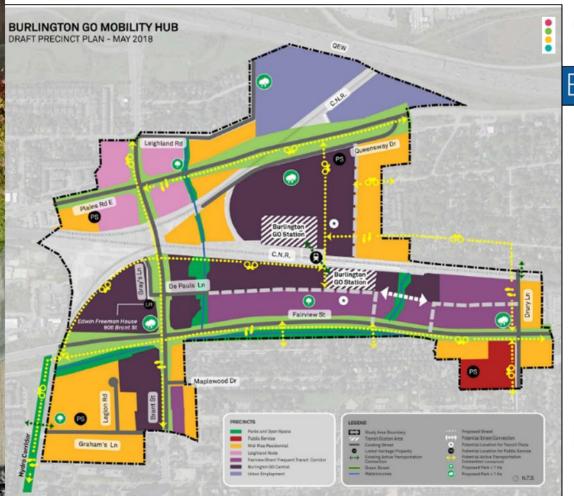
ADS HWY

REPRINCION CO

REPRINCIPATION CO

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Trends - Transit based intensification and urbanization/TOD: Burlington, ON

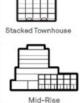


Example of a Draft Precinct Plan

BUILDINGTYPES

MID

Includes stacked townhouses and midrise buildings (5-11 storeys), which may include non-residential uses.



TALL

Buildings 12+ storeys, typically mixed with other uses



EMPLOYMENT

Includes urban employment uses















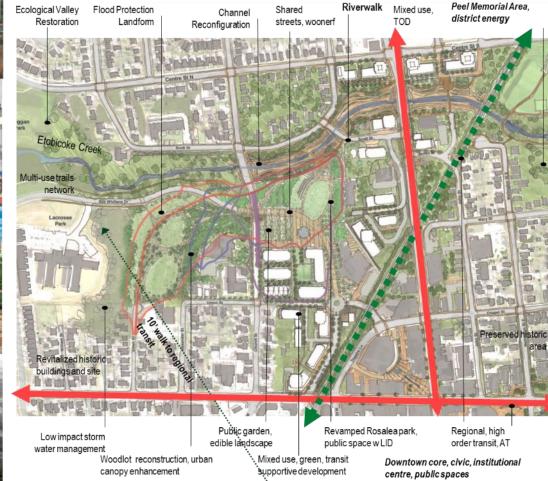








The Riverwalk/Etobicoke Creek Revitalization Demonstration Project for Climate Change and Sustainability













.. (truly) smart suburbs diversity, social justice ... the new, innovation economy urban living.... ... sustainable mobility reduce GHG, near zero emissions resilient, sustainable, healthy, liveable placemaking, experience ... liveability, quality of life



... the Canadian Way

... character, Identity, spirit of place

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Western Ontario: Innovation & Resiliency

Ute Maya-Giambattista
B.Arch, MPL, MCIP, RPP, LEED AP
Principal, SGL Planning & Design Inc.



The Metal Works, Guelph, ON

- 19th Century Industrial Complex
- Live-work relationship with St. Patrick's Ward
- Heritage buildings covered by plant roof

- Fusion Homes / Kilmer Group Builder & Developer
- 5 minute walk to:
 - Mobility Hub, City Hall Square,
 Historic Core, Employment,
 Revitalizes City's Active Core Area









The Metal Works, Guelph, ON

- Over 1,000 residents in 5 phases
- Heritage building & restoration
- New urban square & craft distillery, restaurant, offices
- Riverwalk next to Speed River with front facing TH podium & connects City's trail system
- A respectful fit that contributes to urban vitality



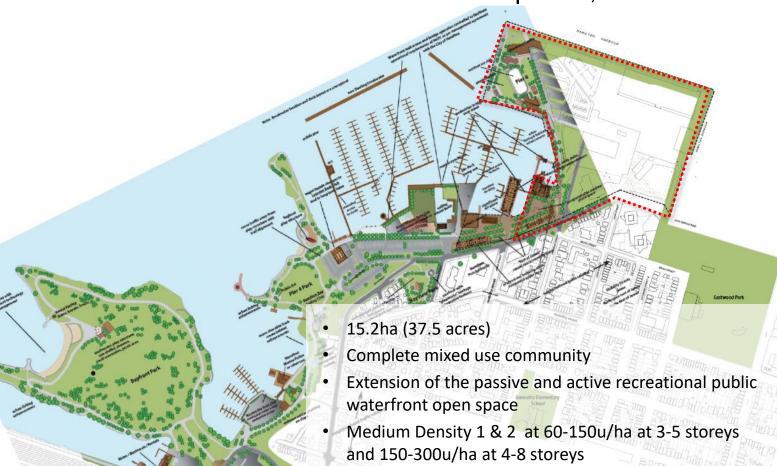






Piers 7 & 8 – West Harbour Development, Hamilton









Piers 7 & 8 – West Harbour Development, Hamilton

- 1,227 Residential Units (5% affordable)
- Commercial (Office/Retail) 6,440m2
- Institutional 2,477m2
- 'The Pier' unique building design and siting, combined with material barriers, to shield occupants and visitors from adjacent industrial nuisances







Piers 7 & 8 – West Harbour Development, Hamilton

- <u>Long-term Goal -</u> Eliminate natural gas consumption SHARC heat recovery, geothermal, solar photovoltaics
- <u>Public Art Strategy</u> artists-in-residence, call for ideas, construction hoarding initiative
- Smart Cities Incubator partnering with Ontario Centres of Excellence to incubate and fund Hamilton-based start-ups focused on intelligent cities and green technologies and invite them to use Pier 8 as a testing grounds and showcase







Back to the River - Thames River City of London



 Revitalization of a five kilometer stretch of the river radiating from the Forks in three directions: north, west and south

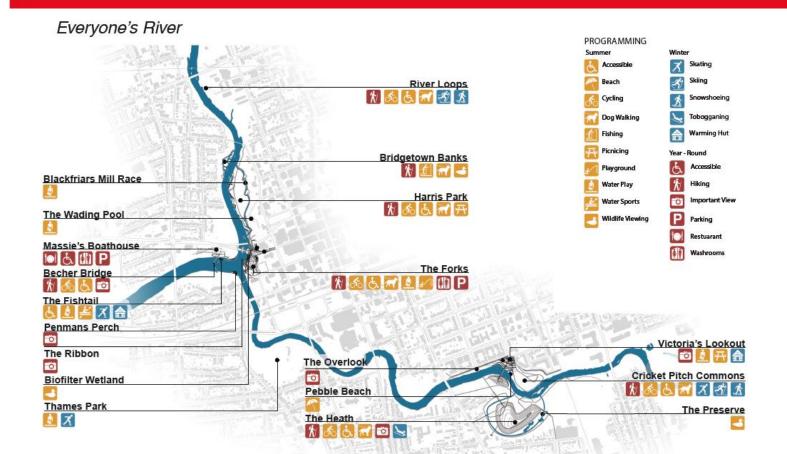








Back to the River - Thames River City of London







Back to the River - Thames River City of London





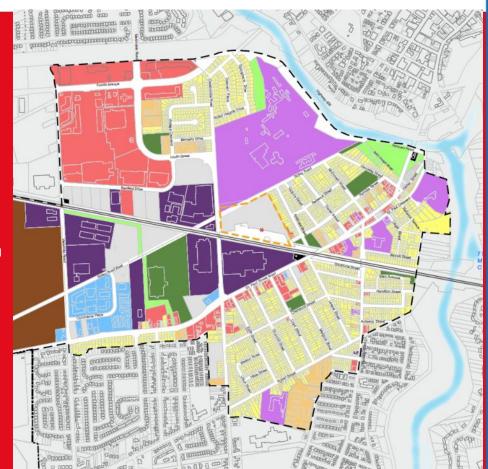






St. Catharines GO Transit Station - Secondary Plan

- 4,000 people and jobs by 2041
- Improve the public realm and support mixed-use, mid-rise intensification
- Balance modes of movement and improve connectivity to the Station and throughout the area
- Protect existing stable neighbourhoods
- Leverage iconic presence of Ridley College and VIA Station buildings







St. Catharines GO Transit Station - Secondary Plan



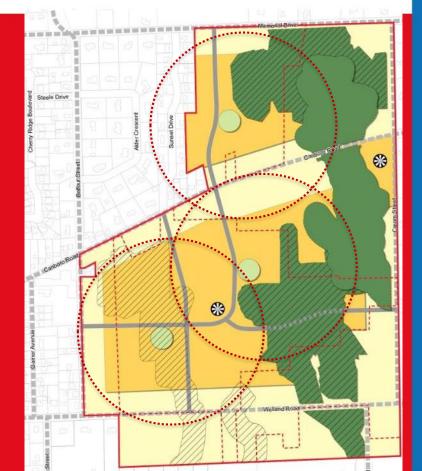




East Fenwick SP — Town of Pelham

- 94.2ha (232.81 acres)
- 2,300 residents/660 units
- 3 distinctive sub-neighbourhoods
- Connected open space system



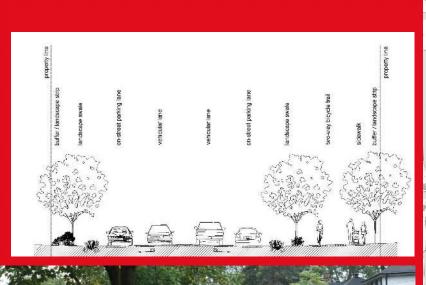




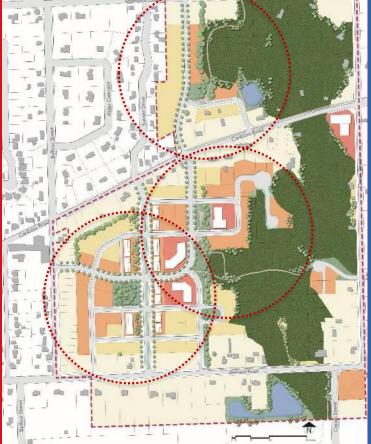


East Fenwick SP — Town of Pelham













Smithville Community Plan - Town of Smithville

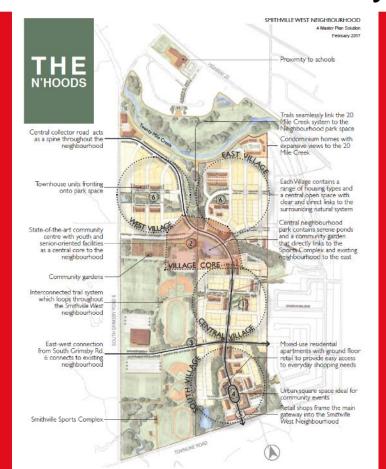
- Located in proximity to Downtown area
- Integrates the Smithville Sports Complex to the existing urban fabrics
- Provides ease of access
- Completes Town's planned trails system along 20 Mile Creek

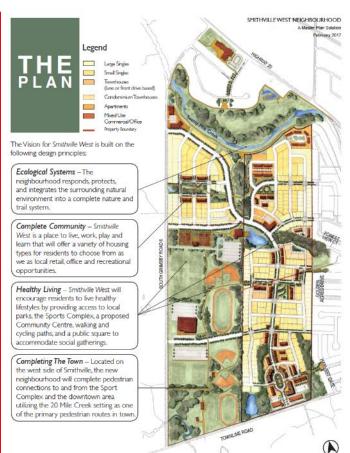






Smithville Community Plan - Town of Smithville







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Table for 1200

Montréal **₩**







True North Square









Market Lands Competition









Waterfront Drive









62 MacDonald Waterfront Condos









On the Docks



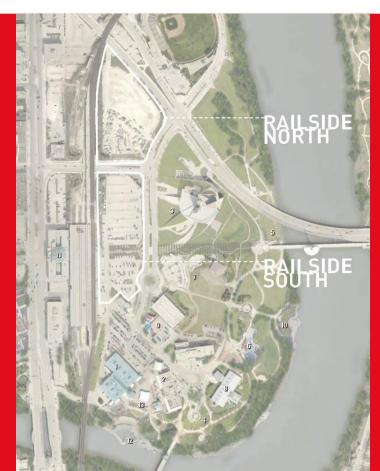






Railside at the Forks









Chair Your Idea







Canada's Diversity Gardens









Canada's Diversity Gardens

Montréal ₩











Edmonton

Montréal₩







Montréal **₩**

Edmonton







Edmonton













Edmonton















Calgary



Calgary is using low cost urban animation projects to enliven underused spaces such as back alleys and onstreet parking spaces to test design interventions and as part of longer term public realm investment strategies to engage the public and provide immediate improvements.





Calgary



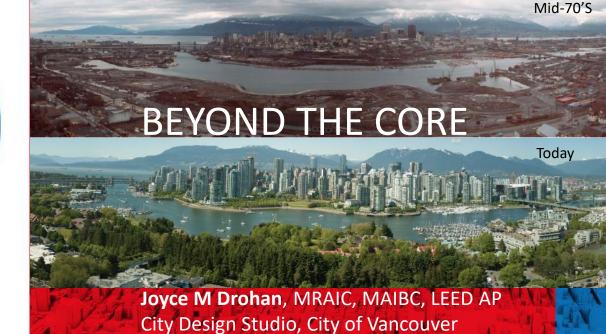


RETISSER LA VILLE **FIXING** THE CITY ::-CanU10





VANCOUVER:





MOVE: City Core + Broadway Initiatives









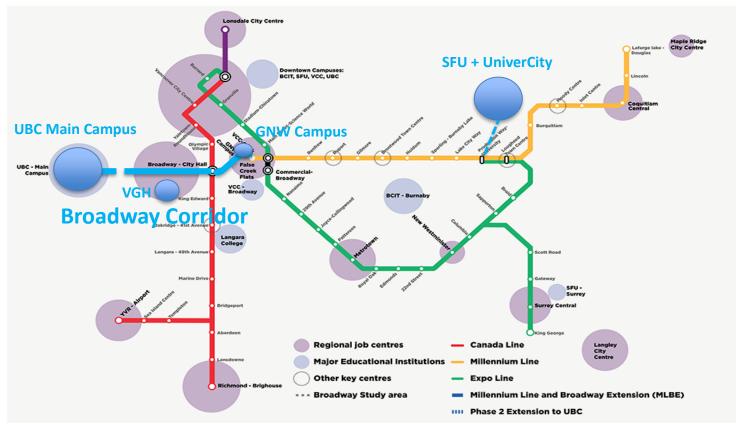








Connecting Job and Innovation Centres in Metro Vancouver



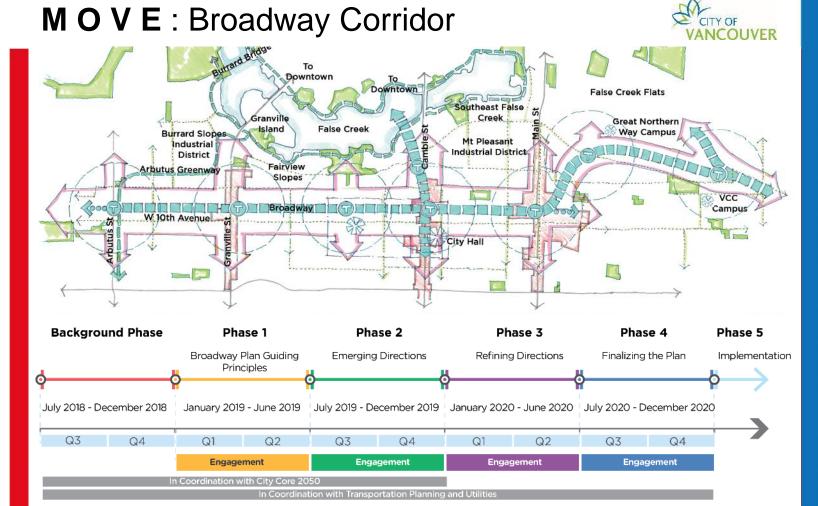


Note: Area of job centres and educational institutions is proportional to the number of jobs or students

Source: Census 2006, YVR 2011 Economic Report, UBC Our Place in the Region 2009, Metro Vancouver 2011 (based on Ministry of Advanced Education, Innovation and Technology 2010)







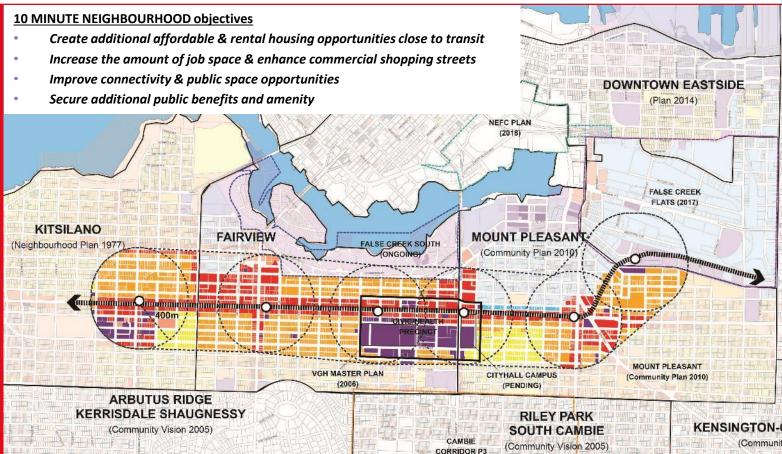






M O V E: Broadway Corridor









Montréal

LIVE: The 'right' supply





- 72,000 new housing units over 10 years
- 65% of new housing will be for renters including:
 - > 20,000 purpose-built rental units
 - 12,000 social, co-op and supportive housing units
- 10,000 new ground-oriented units suitable for families with children and downsizing seniors







LIVE: Housing strategies



Affordable Housing Delivery

- 1. Private Sector Incentives Programs
- 2. Social Housing on City Land: contributed to partners at discounted or nominal rates
- 3. Social Purpose Real Estate
 Program: capital grants,
 development incentives, expedited
 processing for non-profit affordable
 housing projects
- Inclusionary Housing: social housing requirements in private developments

Incentives for Secured Market Rental

Rental 100 Program (2012)

- 1. Density bonus
- 2. Development Cost Levies waived
- 3. Parking relaxations
- 4. Unit size relaxed to 320 sqft
- Concurrent processing to expedite development approvals

2008 – 2012 = 350 units/yr 2013 – 2017 = 1,100 units/yr















LIVE: Housing strategies



Social Purpose Real Estate Incentive Program

- Support non-profit, co-op, and faith-based partners in expanding and renewing affordable and social housing.
- Develop an incentive program that includes additional density and increases in per-door grants



Temporary Modular Housing



- Goal: **600 units** by Jan 2019
- Approved & Underway: 406 units

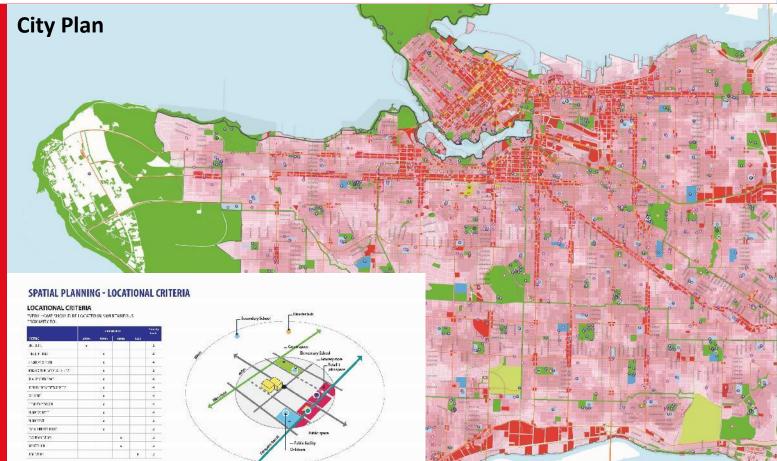




Montréal







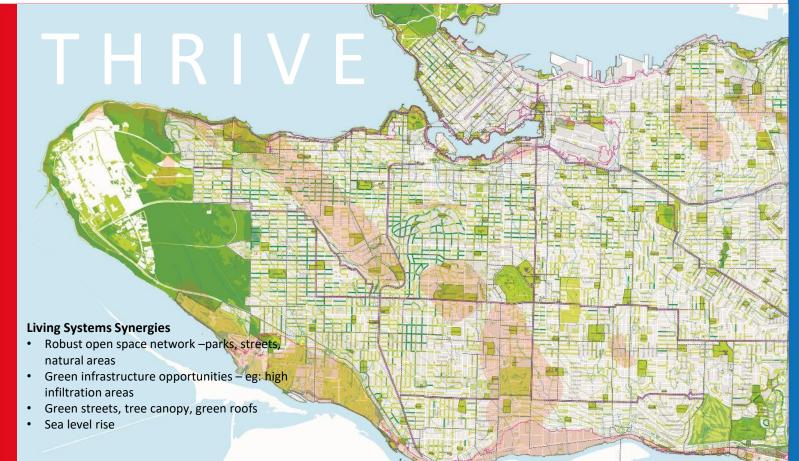




Montréal **₩**











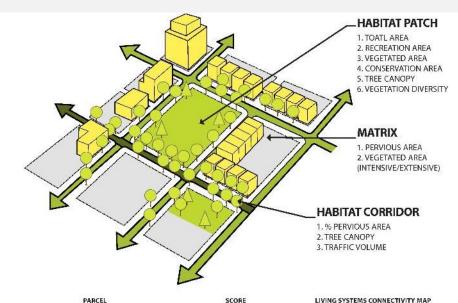


THRIVE: Living Systems

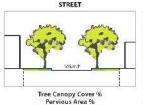


HABITAT CONNECTIVITY

Habitat connectivity can serve as a city-wide meta indicator that provides a strong measure of performance. Habitat connectivity helps to maintain and enhance biodiversity, enhances urban soil and permability to receive rainwater and nutrients, and offers interconnected green spaces suitable for recreation and socializing. Resilience is enhanced through mitigation of urban heat island effect and reduced flooding risk and maintenance of the network can provide high quality jobs for local residents well into the future.



GIS workflow Weighted Sum Overlay

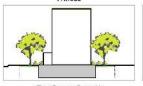


Traffic Volume, Speed + Mix

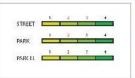


PARK

Recreation/ vegetation/ conservation Area Tree Canopy Cover % Vegetation Diversity (Simpson Diversity Index)



Tree Canopy Cover % Pervious Area % Onslab Vegetation %



Scores assigned to each category



Scores summed and overlayed to show potential green corridors & habitat

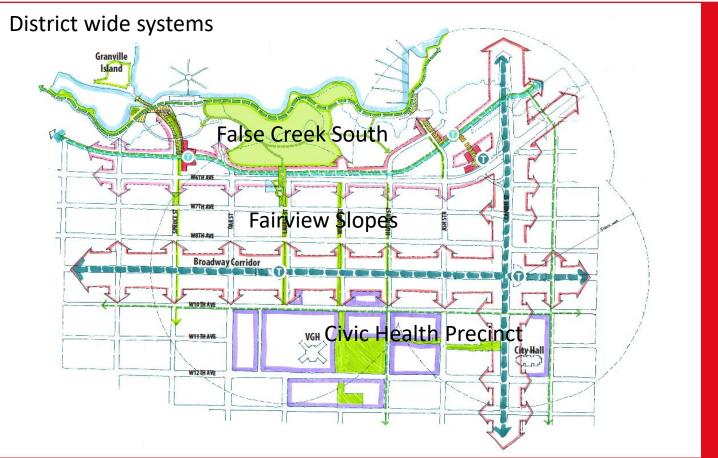




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THRIVE: Living Systems

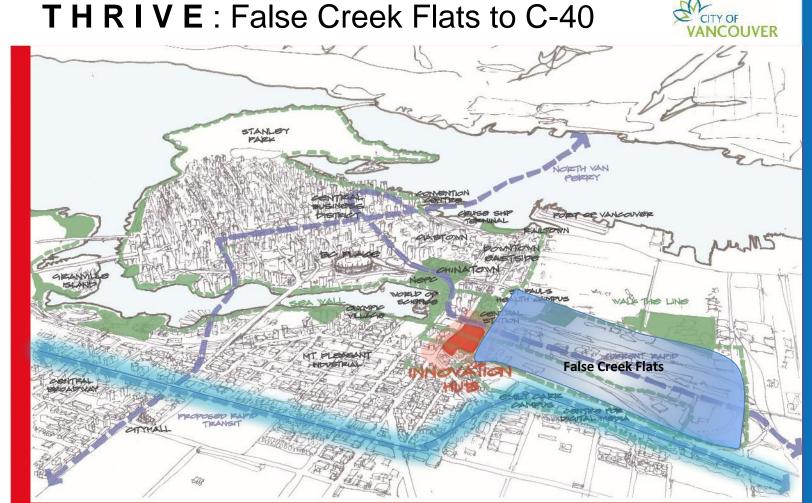








Montréal ₩







THRIVE: C40 Reinventing Cities







"C40 Cities are leaders in the fight against climate change. As the Chair of C40 I am launching a new global competition called Reinventing Cities, to stimulate zero carbon development across the world's cities and celebrate innovative solutions to environmental and urban challenges. Reinventing Cities will set new standards of carbon-neutral and resilient development and enable the implementation of projects across a wide range of architecture, typology and site-usage."

Anne Hidalgo, Mayor of Paris and C40 Chair

C40 CITIES







Montréal

THRIVE: C40 Reinventing Cities





C40 Mandate

- Carbon neutral
- Urban Innovation new models of mixed use: Arts & Culture, Industry, Technology and diverse housing







THRIVE: Sea Level Rise



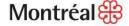












THRIVE: Assessing performance

THRESHOLD PROJECT



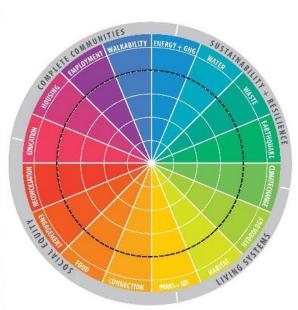
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PROJECT EVALUATION SUMMARY



FINAL SCORE

0 - 1



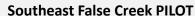
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THRIVE: Assessing performance









- Flagship sustainable community
- Multiple performance goals
- **Evolving assessment tools** aligned with resilience targets

