

A photograph of three young children of diverse backgrounds smiling and holding a large green recycling bin with a white recycling symbol. The background is a soft-focus outdoor setting with trees.

Regional Planning

Future Resiliency in the Winnipeg Metropolitan Region

Note: Plan20-50 is currently draft and has not yet been approved

CIP Elevation 2.0

July 6, 2022

 **WINNIPEG
METROPOLITAN REGION**

**20^{TO}
01 50**

**Securing
Our Future**



Lisa A. Prime

MES, MCIP, RPP, LEED AP

Principal Consultant
@PRIME Strategy &
Planning Inc



Natalie Lagassé

MCP

Regional Planner @
Winnipeg Metro Region



Ryan Litovitch

MCP

Regional Planner @
Winnipeg Metro Region

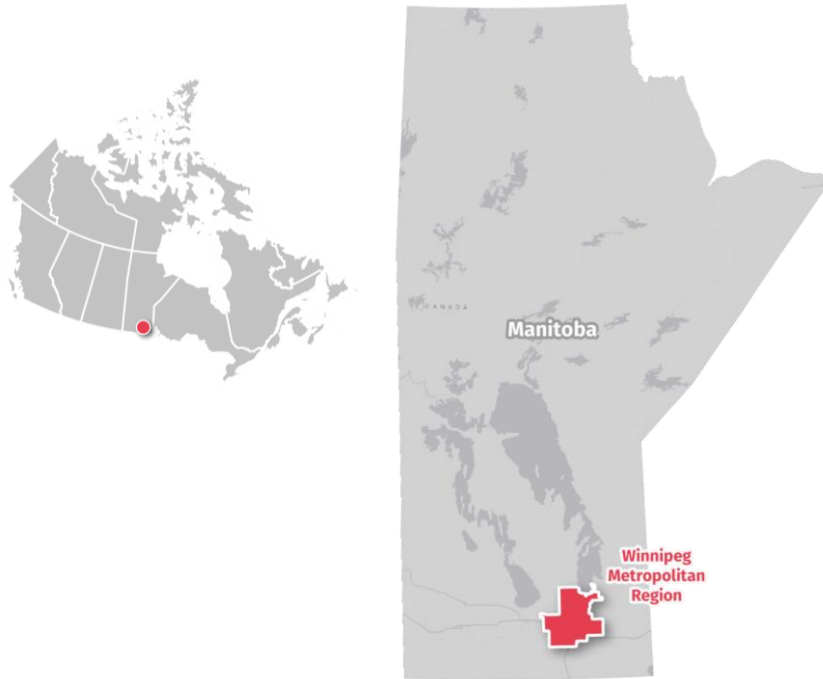


Meagan Boles

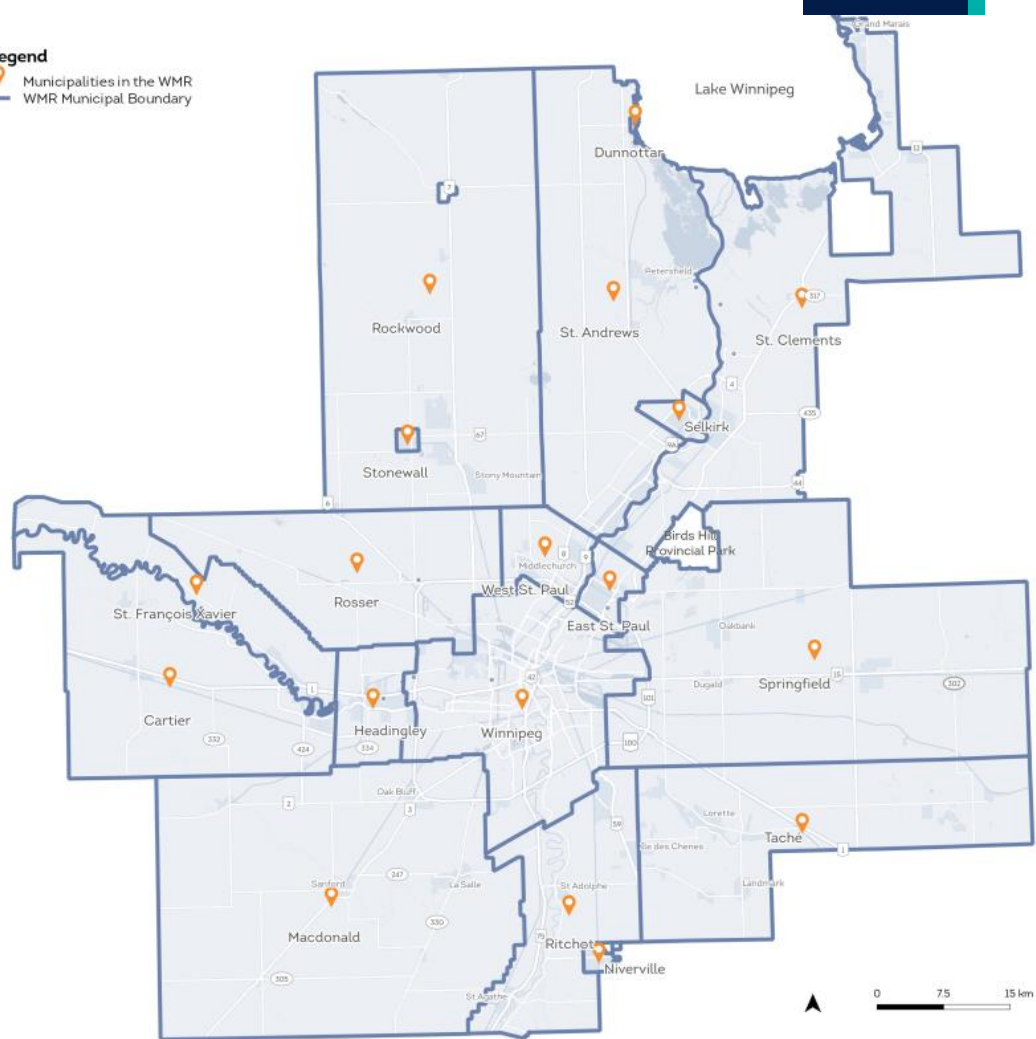
MCIP, RPP, LEED AP

Manager, Planning,
Landscape Architecture and
Urban Design @WSP

Winnipeg Metropolitan Region



Legend
📍 Municipalities in the WMR
— WMR Municipal Boundary



History of Regional Planning in Manitoba



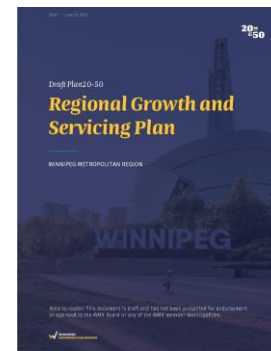
(1912)



(1998)



(2016)



(2021)

(1960-1971)



Image courtesy of the City of Winnipeg Archives.

(2006)



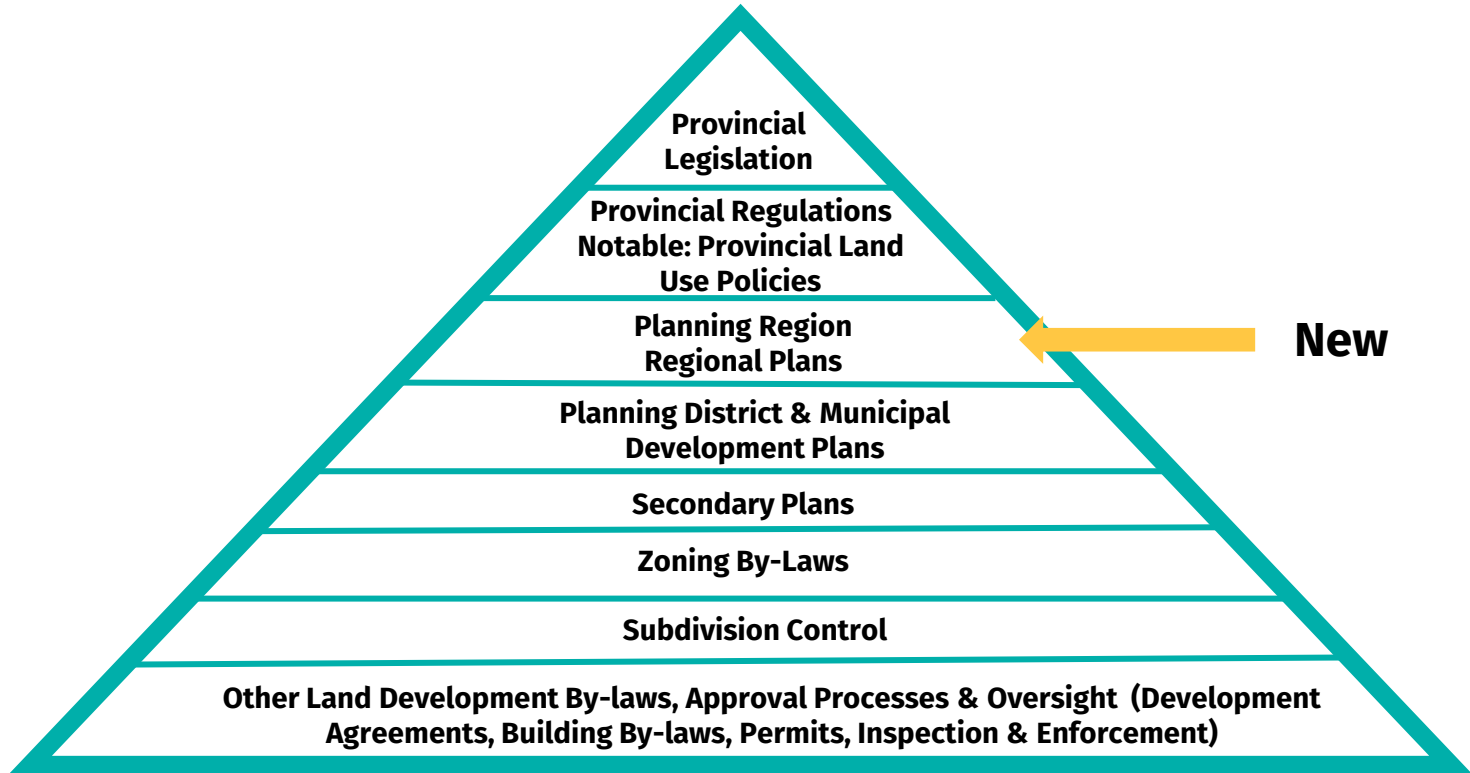
(2018)



Mandate

The Province of Manitoba mandated the WMR to:
“Coordinate economic development, reduce red tape and duplication, and develop a strategy to co-ordinate land use and servicing in the Metro Region.”

Planning in Manitoba



Duplication & Fragmentation

Plans & Strategies

- 9 development plans
- 106 economic development plans
- 14 climate plans
- 4 watershed management plans
- No integrated servicing strategy
- No water and wastewater strategies
- No agricultural master plans

Emergency Services

- 26 firehalls outside Winnipeg, 30 in Winnipeg

Solid Waste

- 25 waste disposal grounds & waste transfer stations

Land Use

- 92 unique land designation names across region

Community Facilities

- 295 publicly-funded recreational facilities

Land Inventory

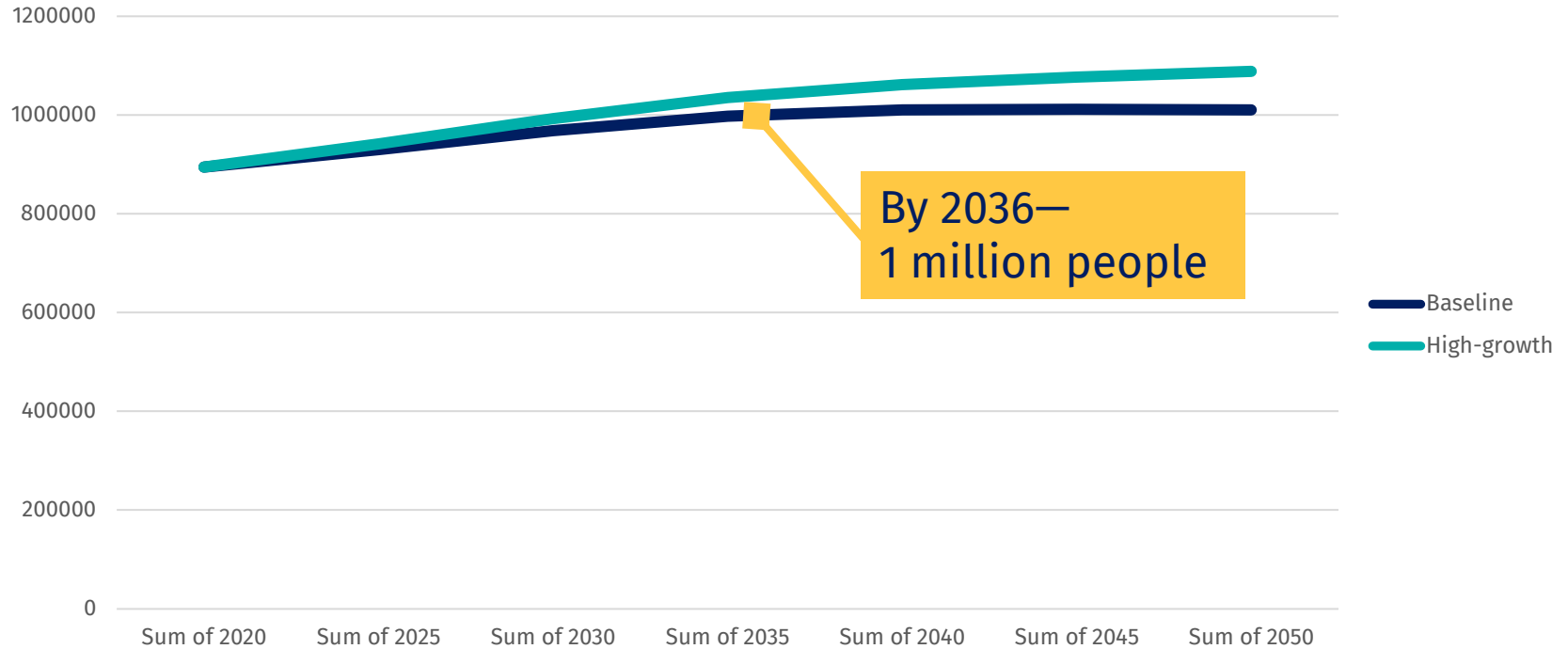
RESIDENTIAL LAND

The Winnipeg Metro Region has
~3x
more residential land than its population
growth requires over the next 30 years

EMPLOYMENT LAND

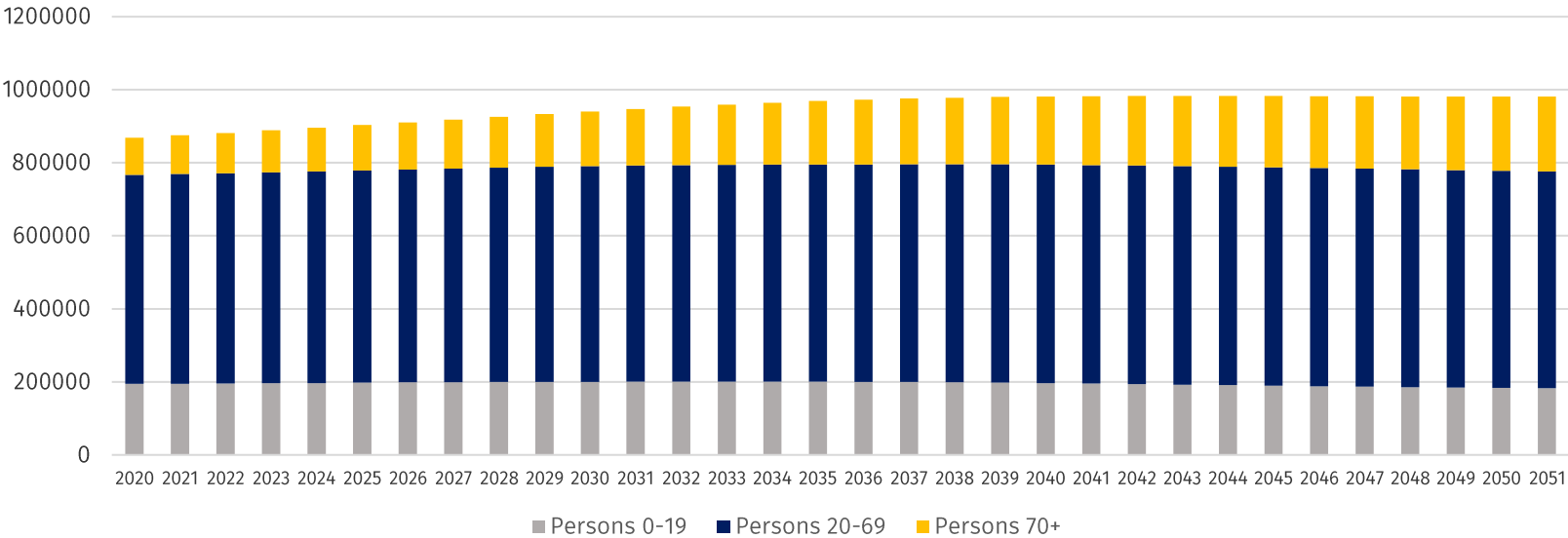
The Winnipeg Metro Region has
~4x
more employment land than its economic
growth requires over the next 30 years

WMR Population Forecasts

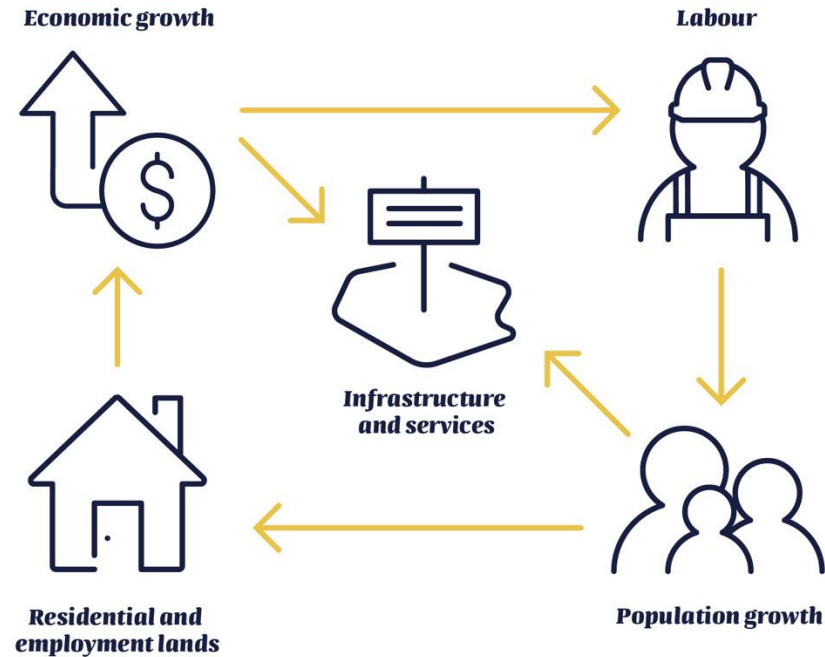


Aging Population

Winnipeg Metropolitan Region Population Forecast by Major Age Group—Baseline Scenario (2020-2051)



Strategic Regional Planning & Investment



Plan20-50 Timeline

2019

- Provincial mandate received
- WMR Board confirmed principles to guide the plan

2020

- Plan20-50 planning process initiated
- Stakeholder engagement
- Policy development

2021

- Stakeholder engagement
- Policy refinement
- Draft Plan20-50 drafted & Submitted

2022

- Stakeholder engagement
- Draft Plan20-50 refined for version 2.0

Plan20-50 Expert Team

Winnipeg Metropolitan Region

- Colleen Sklar, Executive Director
- Jennifer Freeman, Program Manager
- Ryan Litovitch, MCP
- Natalie Lagassé, MCP

Prime Strategy & Planning

- Lisa Prime, MES, MCIP, RPP

WSP

- Meagan Boles, MCIP, RPP

urbanMetrics inc.

- Peter Thoma, MCIP, RPP, PLE

Metro Economics

- Tom McCormack

Placemakers

- Hazel Borys

Stantec

- Cameron Dyck, P. Eng
- Nick Szoke, P. Eng

HTFC

- Adam Kroeker, MCP

Indigenous Engagement

- Laren Bill, MNRM

Metabolic

- Gerard Roemer, MSC
- Chandar Van Der Zande, MSC
- Andrew McCue, BA

Strategic Systems Engineering

- Hank Venema, Ph.D, P.Eng

GDAN Solutions

- Greg Dandewich, MCP

MORR Transportation Consulting Ltd.

- Jeannette Montufar, Ph.D., P.Eng., PTOE, RSP, FITE, FCAE, FEC

Blueprint Inc.

- Michelle Kuly
- Etoile Stewart

Honest Agency

- Sherril Matthes

Extensive Consultation



500
Experts



+ **1000's** **+**
of Stakeholders



+ **1000's**
Discussion Hours



Plan20-50 Goals: Our Desired Outcomes



Transformative, Leading Economy



Vibrant Communities



Natural Abundance



Responsible, Inclusive Governance

Lenses

Policy Lenses

Build and Plan for Climate Resilience

Planning, infrastructure, services and investment that allows us to withstand, adapt, and emerge rapidly from disruptions and extremes – emerge back better.

Protect, Restore, and Enhance Water, Land and Natural Resources

Actions to protect, restore, and enhance water, land and natural resources in ways that conserve the environment, the economy and our way of life.

Reconciliation

The process of “establishing and maintaining a mutually respectful relationship between Aboriginal (i.e. Indigenous) and non-Aboriginal (non-Indigenous) peoples in this country.” (TRC, 2015)

Economic and Technological Transformation

Global forces and technology that are driving changes and reshaping our infrastructure, services and systems.

Goals



**Transformative
Leading Economy**



Natural Abundance



**Vibrant
Communities**



**Responsible, Inclusive
Governance**

Plan20-50 Integrated Policy Areas





Planning for Growth

Meagan Boles

MCIP, RPP, LEED AP

Manager, Planning, Landscape
Architecture and Urban Design @WSP

Varied Community Character

Town



Placemakers

City/Urban



Rural Settlement



Placemakers

Agricultural



RM of Tache



Regional Structure

Legend

Tiers

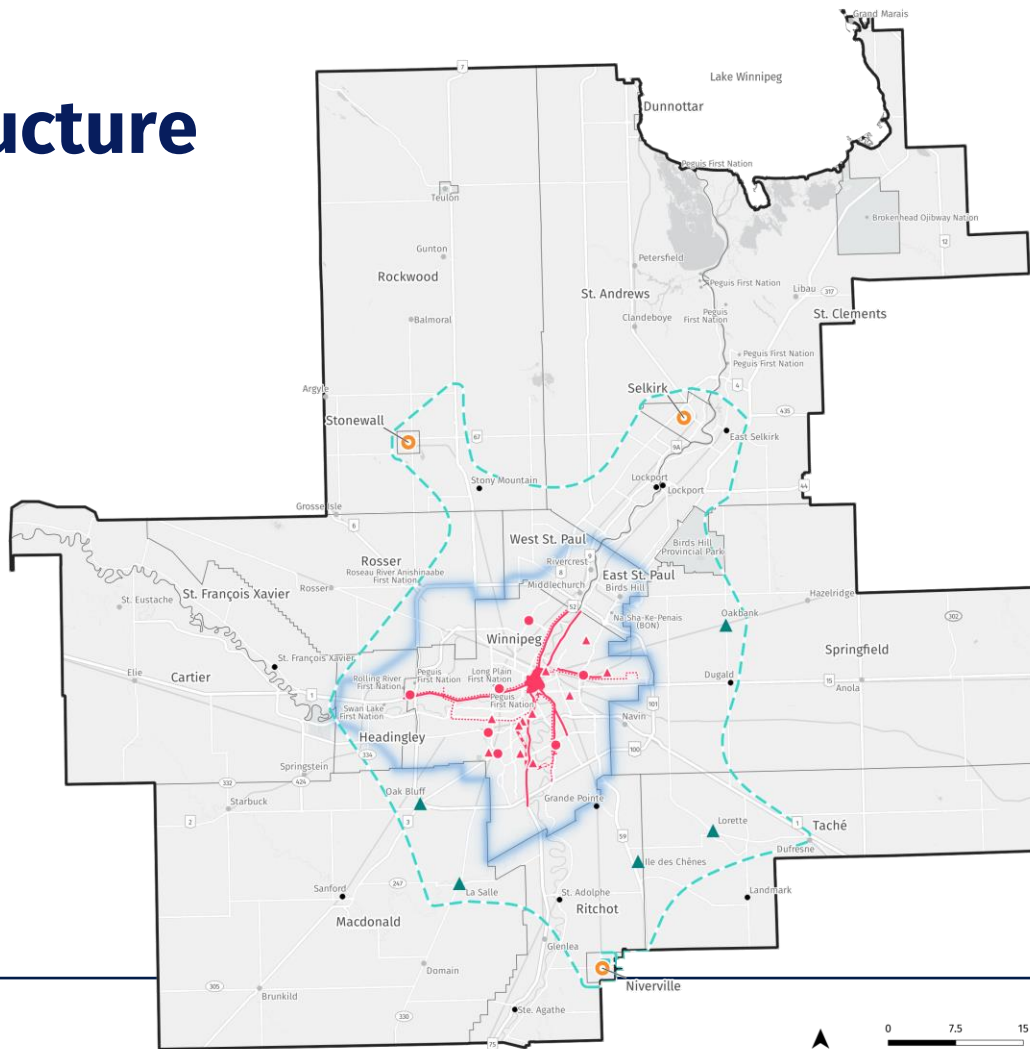
Metropolitan Core

- Downtown Winnipeg
- ▲ Major Redevelopment Site
- Regional Mixed Use Centre
- Regional Mixed Use Corridor
- - - Rapid Transit Corridor-Existing
- - - - - Rapid Transit Corridor-Future

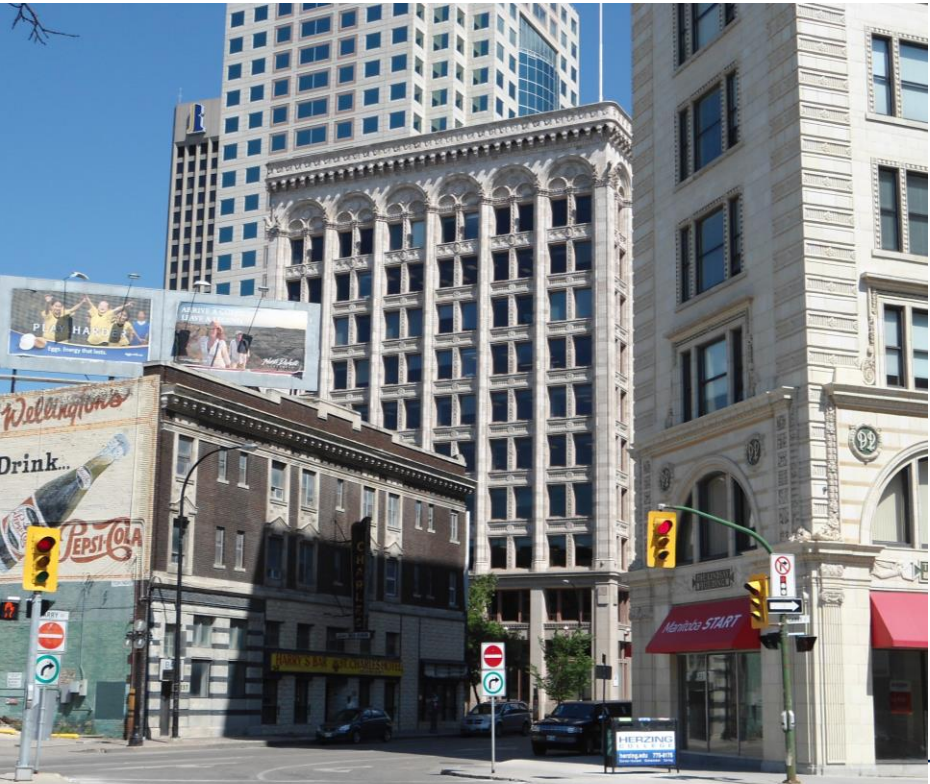
- Inner Metropolitan Area
- Outer Metropolitan Area

Centres

- Urban Centre
- ▲ Rural Centre
- Settlement
- Commuter Shed



Metropolitan Core

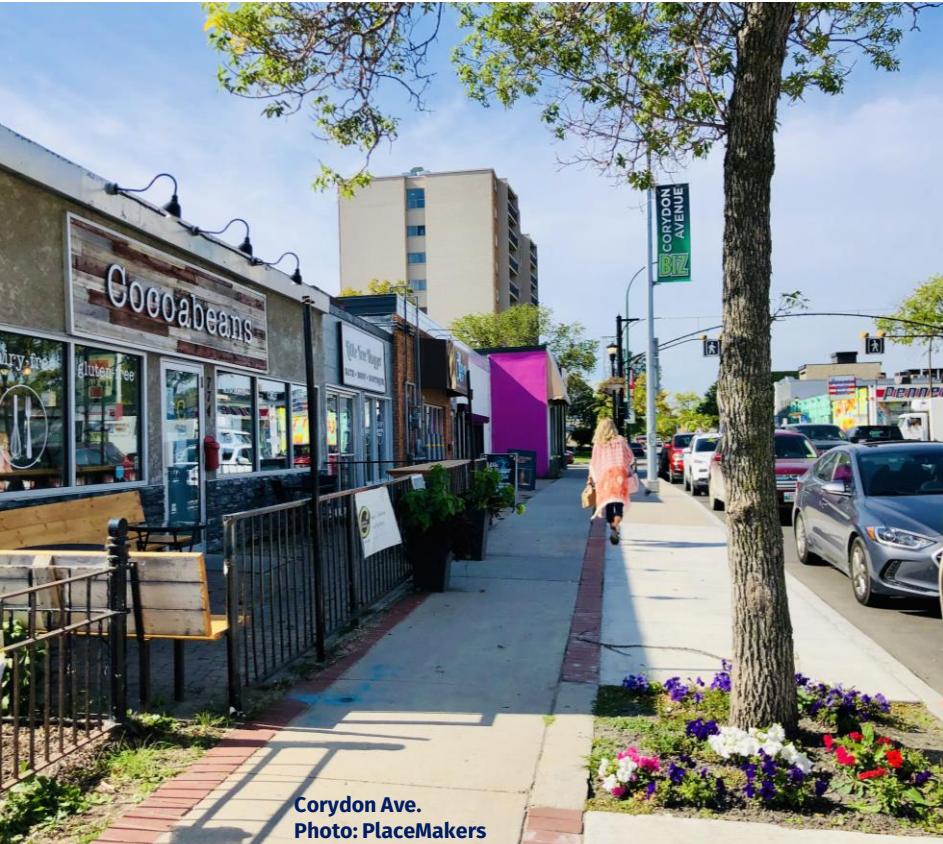


Downtown Winnipeg
Photo: Interlaker

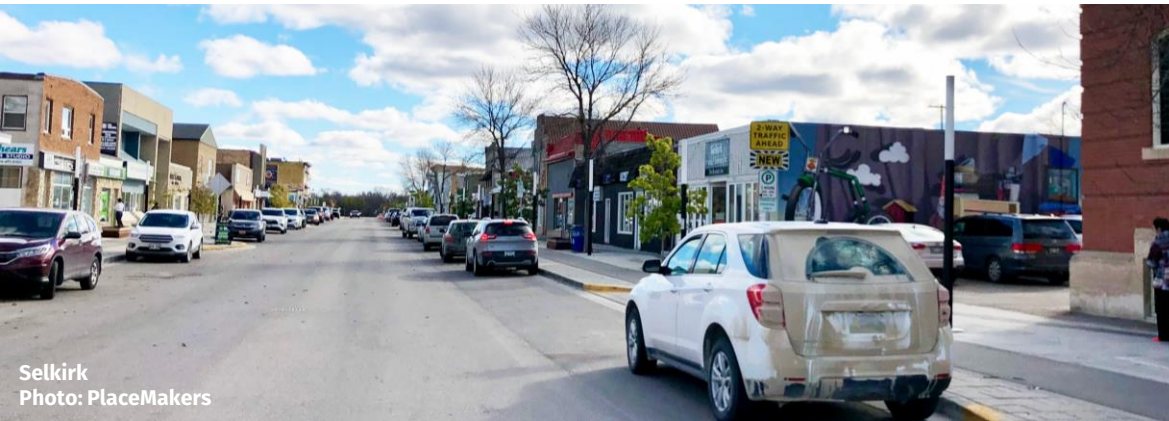


Fort Rouge Rapid Transit Station Area
Photo: Interlaker

Inner Metropolitan Area



Urban Centres (Outer Metropolitan Area)



Rural Centres (Outer Metropolitan Area)



Settlements (Outer Metropolitan Area)



Dugald, Springfield
Photo: PlaceMakers

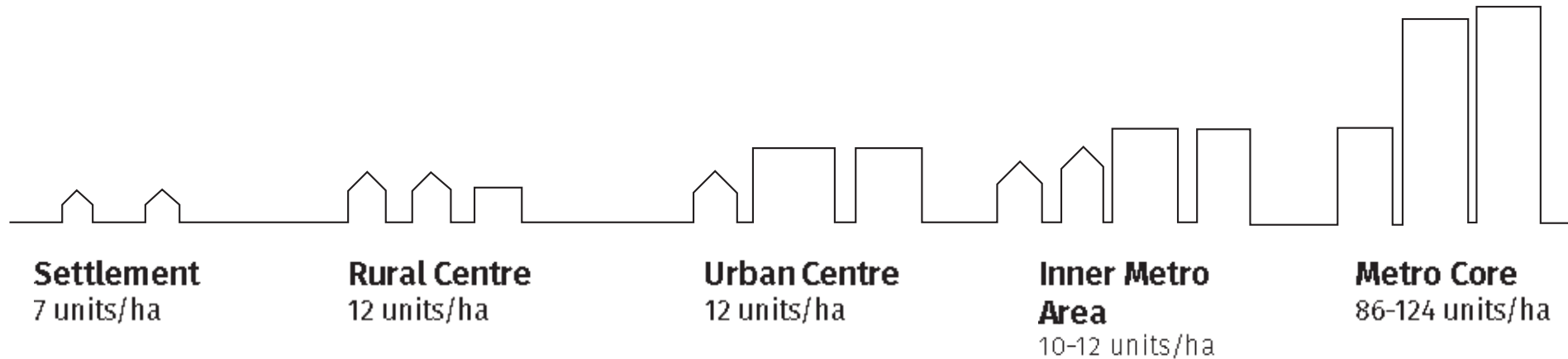


Lockport, St. Andrews
Photo: PlaceMakers



Sanford, Macdonald
Photo: PlaceMakers

Density Minimums



Regional Servicing Strategy

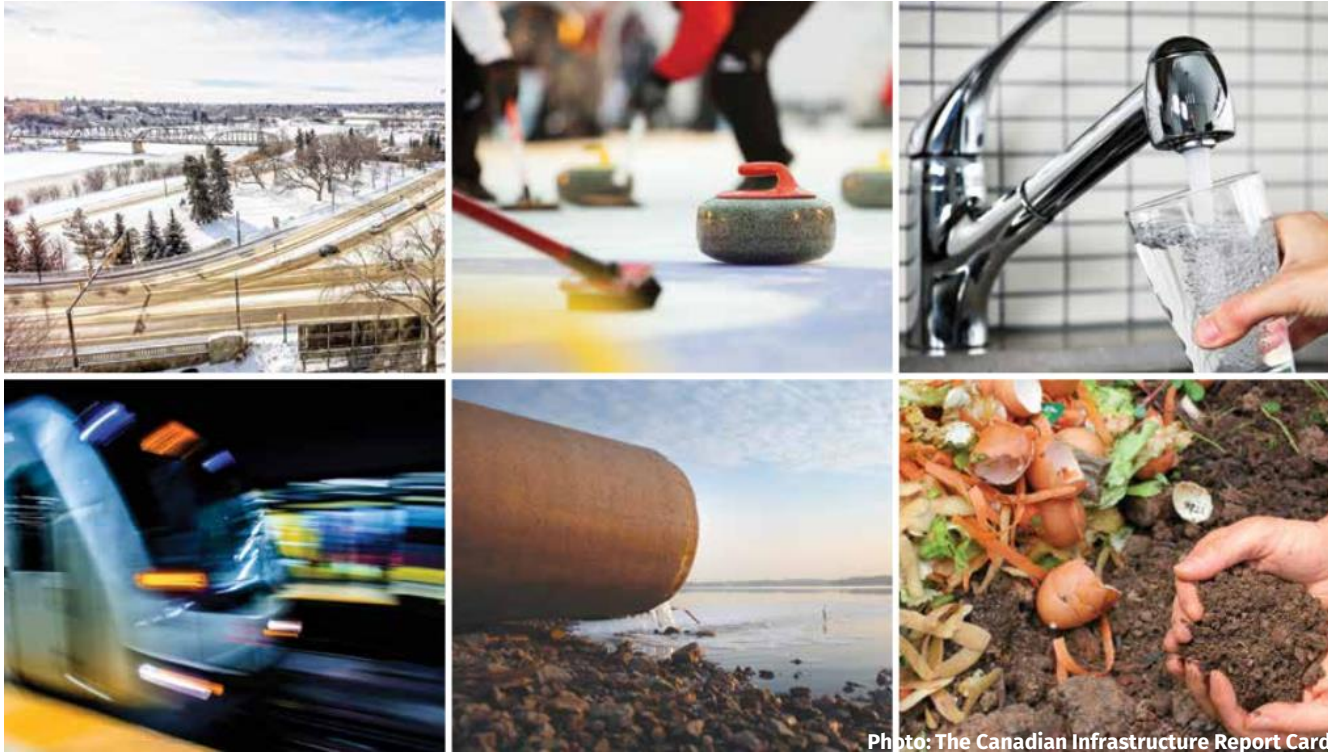


Photo: The Canadian Infrastructure Report Card

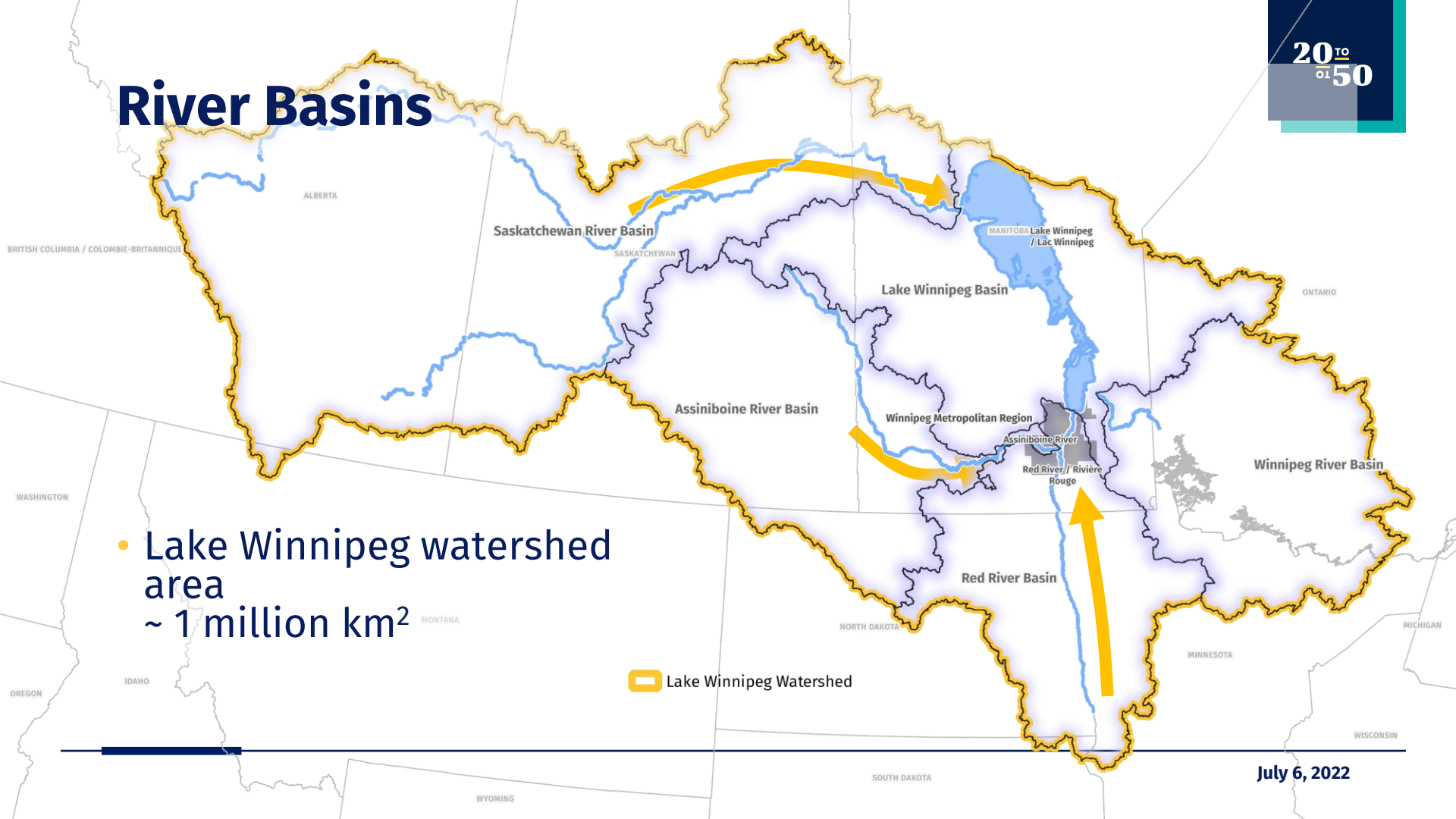


Climate Change & Natural Assets


Ryan Litovitch
MCP

Regional Planner @ Winnipeg Metro Region

River Basins



- Lake Winnipeg watershed area ~ 1 million km²

 Lake Winnipeg Watershed

Lake Winnipeg



Climate Change



Photo: The Narwhal



Photo: The Globe and Mail



Photo: Manitoba Co-operator



Photo: Winnipeg Free Press

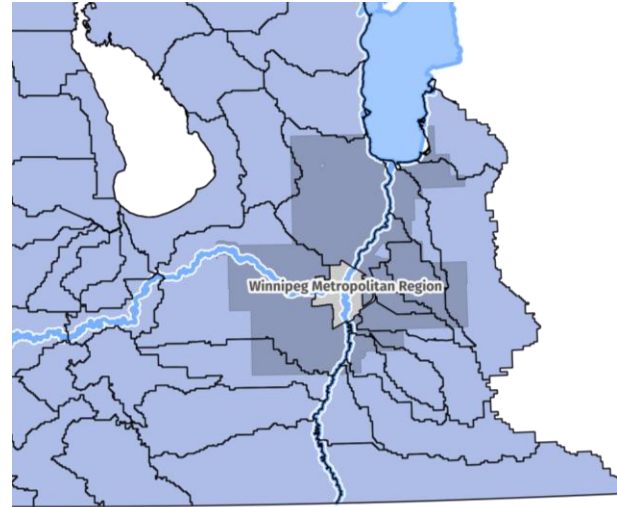
Integrated Policy Approach

Policy areas consider:

- **Watershed planning principles**
- **Natural asset networks**
- **Green infrastructure**
- **Climate resilience**
 - Flood, drought & extreme weather
 - GHG mitigation
 - Adaptation

Watershed Planning Principles

- Effects of climate change on groundwater
- Nutrient and sediment loading minimization
- Use of CSA standards



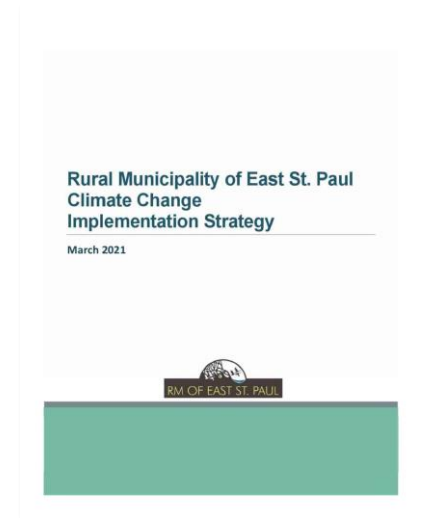
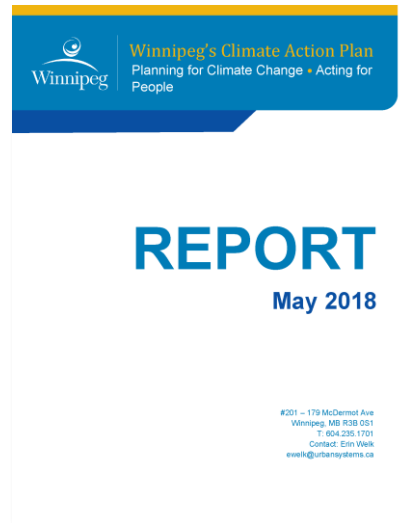
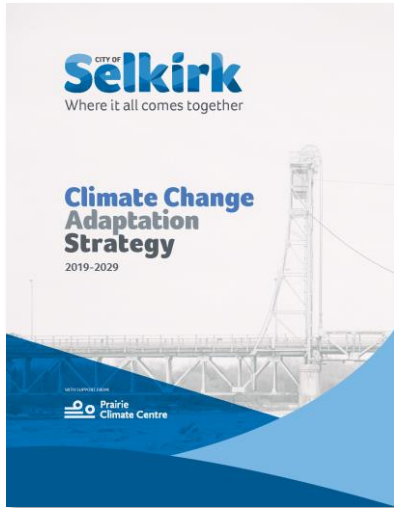
Watershed Subdistrict

Natural Asset Network

- Natural asset identification & mapping
- Natural asset protection, rehabilitation, & enhancement
- Land use designation & restrictions



Regional Climate Action Plan



Resiliency Portal

The screenshot displays the Resiliency Portal interface. On the left is a dark sidebar with the Winnipeg Metropolitan Region logo at the top. Below the logo are navigation arrows and a home icon. The main section of the sidebar is titled "Risk & Resiliency Dashboard" and contains two tabs: "Risk" (active) and "Opportunity". Below the tabs are three filter sections: "Municipality:" with a "Select Here" dropdown, "Asset at risk:" with a "Roads" dropdown, and "Risk Scenario:" with three horizontal progress bars for "RCP 4.5", "1 In 20", and "Fast". At the bottom of the sidebar is a checked checkbox for "Show overland flooding (pluvial)". The main area of the portal is a map of Winnipeg showing a network of roads overlaid on a satellite image. The roads are color-coded, with green lines indicating lower risk and yellow/orange lines indicating higher risk. A search icon is visible in the top right corner of the map area. The Winnipeg Metropolitan Region logo is also present in the bottom right corner of the portal interface.



Land, Water and Other Natural Resource Inventory

Winnipeg Metropolitan Region Natural Asset Land, Water, and Other Natural Resource Inventory

SUMMARY
NATURAL FEATURE REGISTER
CONDITION
DECOMPOSITION

This inventory summarizes natural features for Treaty 1 surrounding municipalities, and First Nation lands with a range of landcover datasets and condition variables. Natural features were subdivided by watershed, municipality, and boundaries of First Nation land acquisitions, sections, and reserves. Condition assessments were performed on the datasets with a range of condition variables, to assess surface permeability, relative size, road density, adjacent land impact, and other parameters for each natural feature.

*The Winnipeg Metropolitan Region is situated on Treaty No. 1 Territory, the traditional territory of the Cree, Dakota, Lakota, Nakota, Dene, Ojibway, and Ojji-Cree First Nations, and the homeland of the Métis Nation.

Natural Feature ID

Municipality/First Nation

Reserve

Watershed District

Park Name

Zone Category

Natural Feature Rating

Watershed Subdistrict

% of Total Study Area Occupied by Natural Features

0.00 96.63 100

Natural Feature Class

- Agriculture
- Forest
- Grassland
- Scrub/Shrub
- Water
- Wetland

Summary of Natural Features by Class

Class	Natural Feature Area (ha)	Count of Natural Features	Average of Natural Feature Area (ha)	Trail Length (km)	Average Road Density (km/km2)
Agriculture	2,516,057	27,051	77.38	746.48	2.31
Forest	728,178	38,919	14.44	510.20	1.25
Grassland	286,164	30,546	5.82	453.33	1.97
Scrub/Shrub	250,289	58,193	4.30	154.23	1.22
Water	397,783	11,688	29.48	63.00	0.76
Wetland	562,258	101,405	5.40	296.65	0.94
Total	4,740,729	267,802	15.40	2,223.88	1.35

Natural Features Inventory

© Mapbox © OpenStreetMap Improve this map

Treaty 1, WMR, and Black River Natural Asset Land, Water, and Other Natural Resource Inventories.

This Winnipeg Metropolitan Region and municipalities within the project's study area are situated on Treaty No. 1 Territory, the traditional territory of the Cree, Dakota, Lakota, Nakota, Dene, Ojibway, and Ojji-Cree First Nations, and the homeland of the Métis Nation.

Space reserved for Turtle Island static image

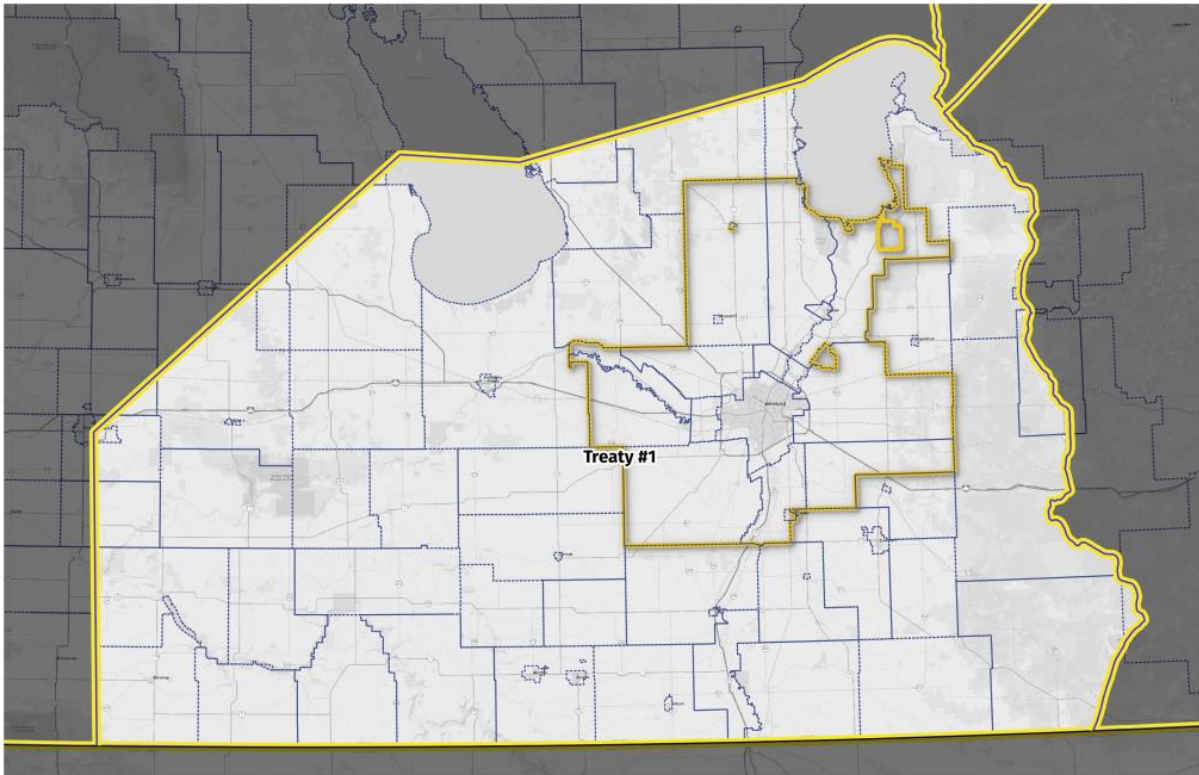




Reconciliation

Natalie Lagassé
MCP

Regional Planner @ Winnipeg Metro Region



Treaty 1 Territory

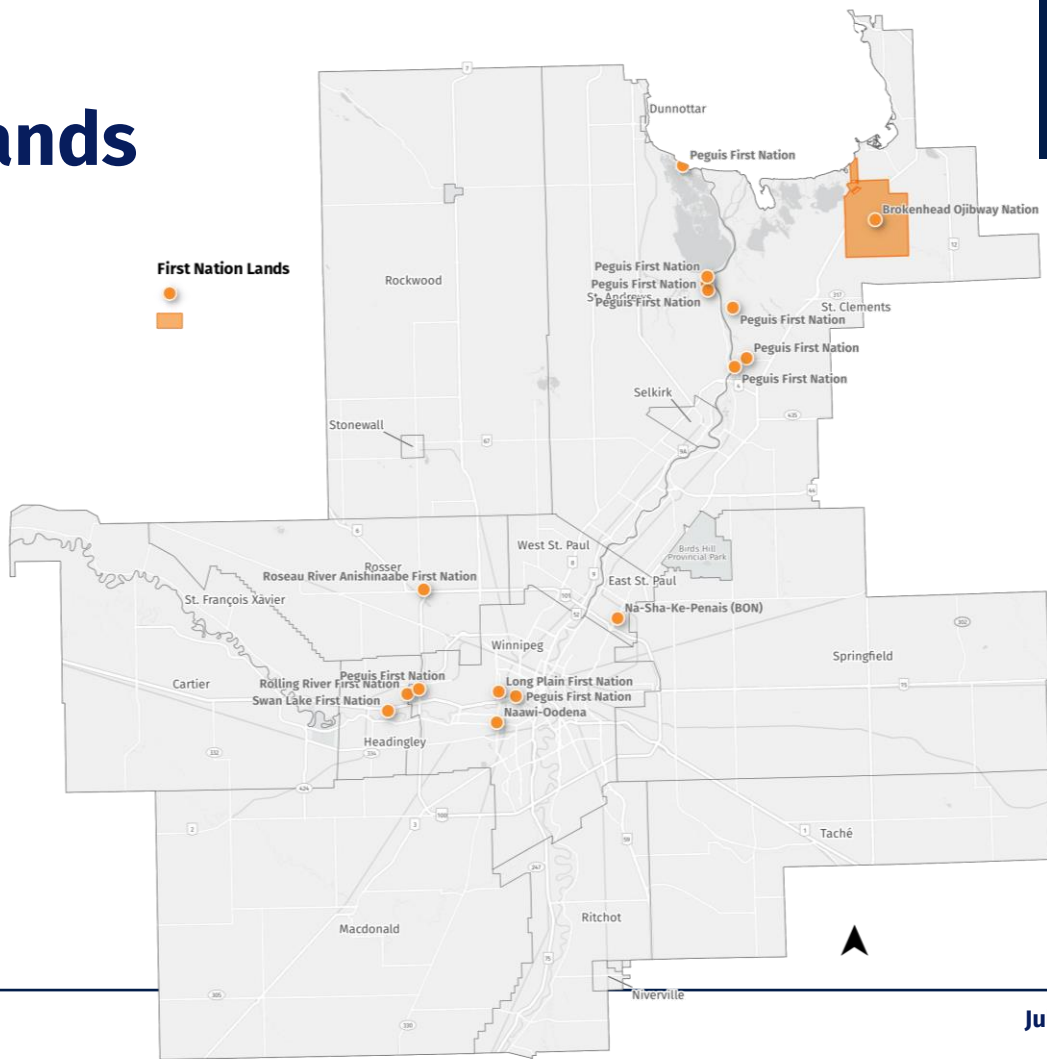
- Legend**
- Municipalities
 - Winnipeg Metropolitan Region
 - Treaty 1



Indigenous Nations



First Nation Lands



Collaborative Leadership Initiative Manitoba



CLI Outcomes



CLI Members

Supporting Collaboration

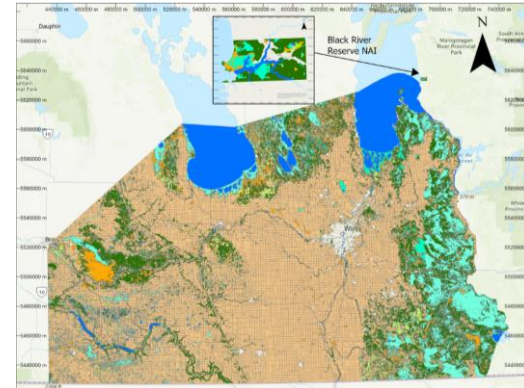
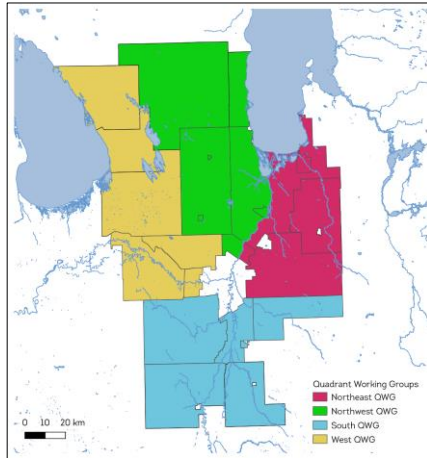
Policy areas:

- Encourages compatible land development
- Fosters collaborative partnerships
- Supports service sharing
- Considers Indigenous knowledge

Service Sharing

- Partnership opportunities for service sharing for significant infrastructure investment
- Common templates to facilitate service sharing agreements
- Collaboration to facilitate compatibility of the regional plan with Indigenous planning and development

Collaborative Projects



Road Ahead

- Draft updates
- Regulation
- Formal adoption process of regional plan
- Implementation

Thank you

Q&A

20to50.ca
info@wmregion.ca