

MODELLING HEALTH CARE COST PATHWAYS



May 5, 2024

FRESH FOOD WEEKLY
A nutrition-based intervention program

Currently, Ontario's health care insurance covers the costs of treating chronic diseases caused from household food insecurity, including the costs associated with the endocrinological care of managing and treating the chronic disease's associated morbid conditions.

The proposed research study aims to prove that it's cheaper to feed the poor than it is to treat them for chronic diseases caused from not feeding them. We intend to identify the entire health care cost pathway by modelling all of the cost stages and 'cost points' underlying the journey patients take to treat and manage diet-related chronic diseases. Further analysis will examine the treatment's effectiveness when it's applied at the onset of each morbidity progression stage. We anticipate the true costs of not feeding the poor will be of great interest to policy makers.

Data Extraction Methods

In 2023, Fresh Food Weekly connected with [PATTISON Outdoor](#), a local marketing company that sells billboard advertising and design services. This is when we learned about a pretty neat mobility technology that could be used to identify study participant's mobility patterns to better understand influences driving the intervention's generated health and social outcomes.



Location-Based Data

How Advertisers Use It

PATTISON Outdoor works with Pelmorex Corp., a GPS location based data tech company that enhances location insights for advertisers through billboard advertising campaigns. Pelmorex uses geo-fencing technology coupled with Weather Network permission-based app users to gather audience insights [source]. Geo-fences are installed at site-specific locations to detect nearby GPS-enabled devices. This allows Pelmorex to extract big data for aggregation, anonymization and actionable audience insights [source].

Insights in Use

Here's a screenshot of some "insights in use" PATTISON sent over. These insights were derived from data collected between January 1st to 31st, 2020, and highlights the GPS-enabled cell phone users who drove by the specific billboard located at Mapleview Dr., E and Huronia Rd in Barrie, Ont., for that month:

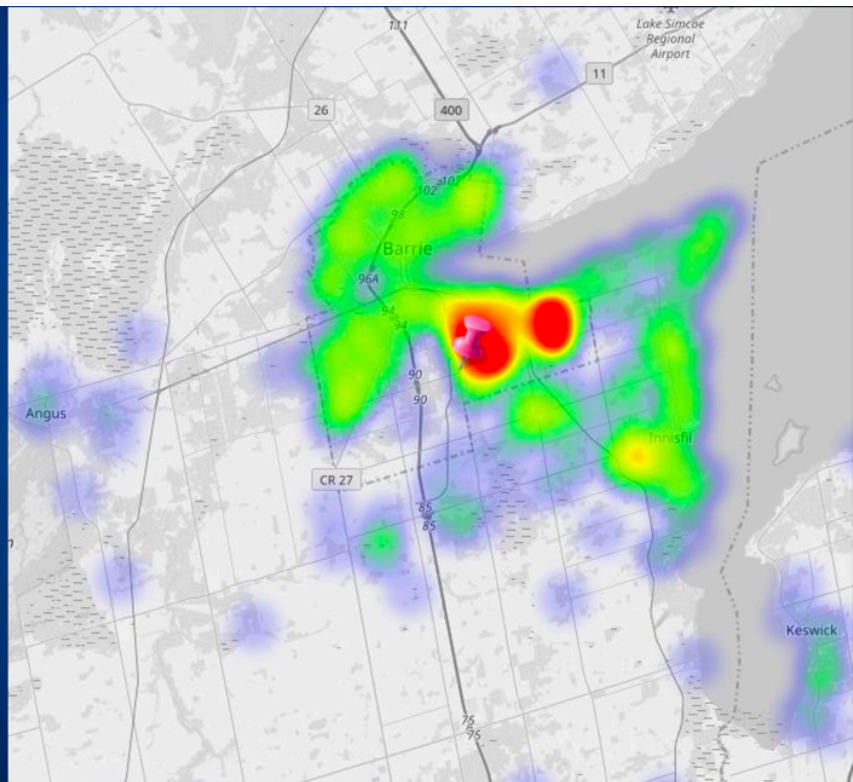
The audience passing this location were travelling from the following locations:

Barrie – **52%**

Innisfil – **16%**

Angus – **2%**

(Remaining 31% coming from other areas, including: Oro-Medonte, Bradford, Orillia, Alliston, Newmarket, Wasaga Beach, Lefroy, North York, Brampton, Mississauga, Midland, Thornton, Toronto, Coldwater, Churchill, Cookstown, Tiny, and Others)



Pelmorex Location Insights, data taken from January 1st to 31st, 2020.

The information presented here is anonymous, aggregated, and permission based GPS location data. At this time, the data is intended to be used for anecdotal purposes only. Readers are to be aware that this data only looks at those who have travelled during the month of January (1st – 31st, 2020)

PELMOREX WEBSITE INFO

LEVERAGE INSIGHTS TO GAIN AN ADVANTAGE

Analyze and action insights for better business outcomes.

90%

of enterprise businesses say data is of increasing importance to their business overall.

Source:
<https://www.forbes.com/sites/forbesbusinesscouncil/2022/11/08/stop-making-assumptions-using-data-to-drive-your-business-decisions/?sh=21c795a163ec>

[LEARN MORE >](#)



A LEADER IN 1ST PARTY LOCATION DATA

Our trusted position in market has given us access to rich insight allowing us to create solutions for your business.



Location data received from over 16.9M devices, including location permission collected from a variety of additional premium data partners.



Approximately 7 MILLION USERS visit our desktop and 12 MILLION USERS visit our mobile web platforms on an average monthly basis



Precise Geolocation
Web And App Behavioural
Home Postal Code Linked To
Demographic / Purchase Data
Contextual



Connect with users based on purchase intent.

WEATHER DATA AND INSIGHTS

Over 30 years of weather data, expertise, and over 18 million forecast locations at 1 km resolution, updated 24/7.



Use weather insights to surface patterns that drive future business decisions.



Activate campaigns based on the weather. Available cross-platform and through direct IO and programmatic.

BUSINESS DECISION TOOLS

Power smarter decisions using proprietary tools that helps you measure, learn and plan.



Turning insights into actionable solutions using Pelmorex Product Suite: Location Insights Platform, Audience Builder, Condition Based Ad Triggering, Engagefront (proprietary DSP) and Foot Traffic Attribution.

Cross-matching participant insights with real-time weather data would truly create a novel research study.

UNDERSTAND THE IMPACTS OF WEATHER

Harness the power of weather to drive business decisions and activate media campaigns when most relevant.

93%

of business executives report that improved weather insights can positively impact annual revenue growth

Source: IBM Institute for Business Value 2018 Global Weather Study Survey (n=1,000)

[EXPLORE MORE >](#)



INDUSTRY LEADING TECH



Built by a team of engineers and data scientists, our tech-enabled solutions deliver more data and deeper insights.

CANADIAN DSP



EngageFront (DSP): Pelmorex's proprietary demand-side platform enabling marketers to create, activate, and evaluate programmatic advertising campaigns.



Best-in-class technology, ease-of-use functionality, high-quality data insights and dedicated support teams allows EngageFront to provide marketers with full-circle advertising solutions – all in one interface.

INSIGHTS AND ACTIONABLE LEARNING



Business decision tools backed by proprietary technology with easy access to insights, all under one roof.

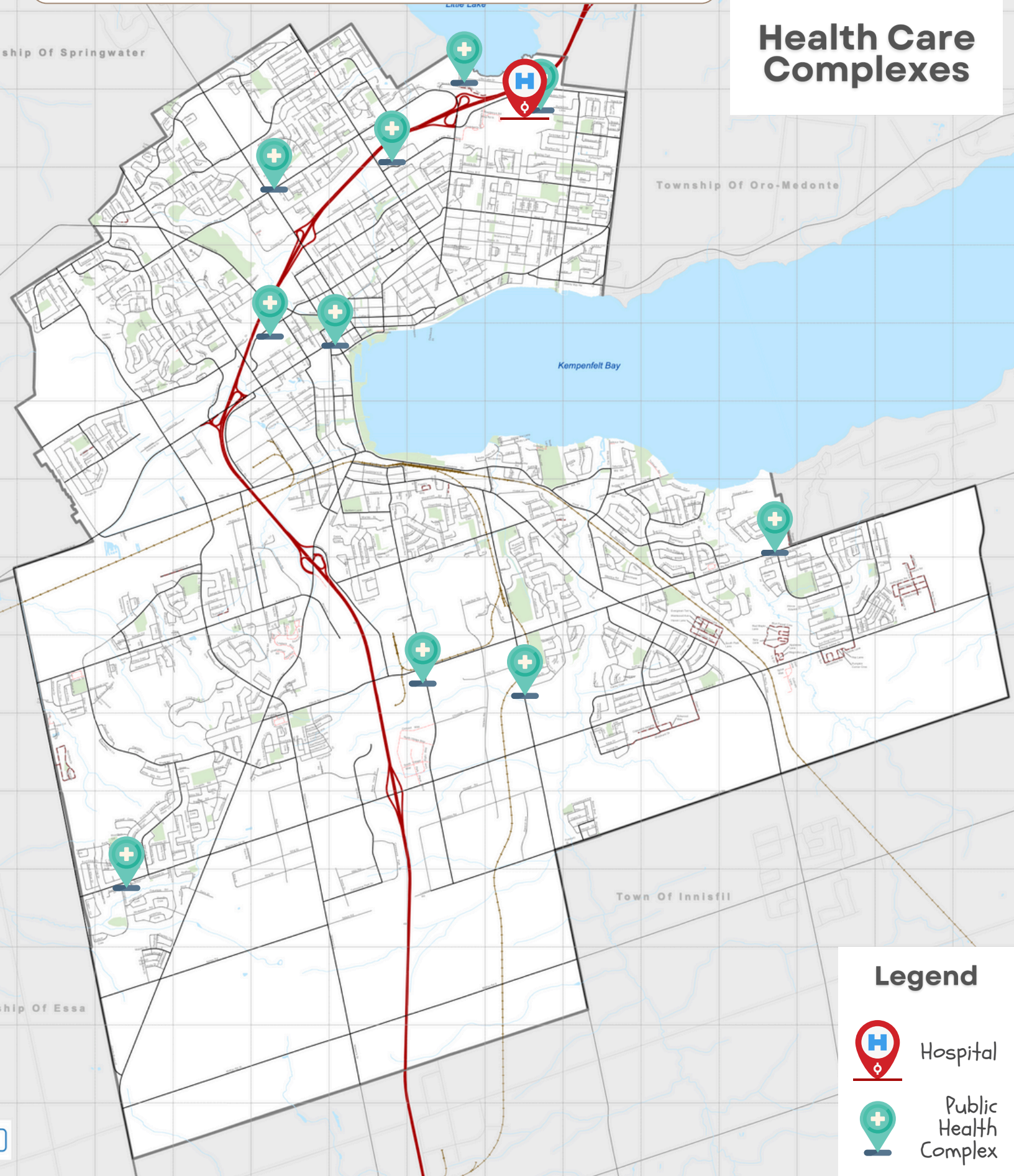
CONTINUOUS INNOVATION



Our tech continues to evolve to meet client needs and the changing media landscape. A dedicated team keeps innovation at the forefront.

This map indicates all the public health care complexes in Barrie, Ontario. Geo-fences could be installed at each health care location used to diagnose, treat or manage a symptom of chronic diseases caused by or exacerbated by household food insecurity.

Health Care Complexes



Legend

-  Hospital
-  Public Health Complex





Walk-In Clinics



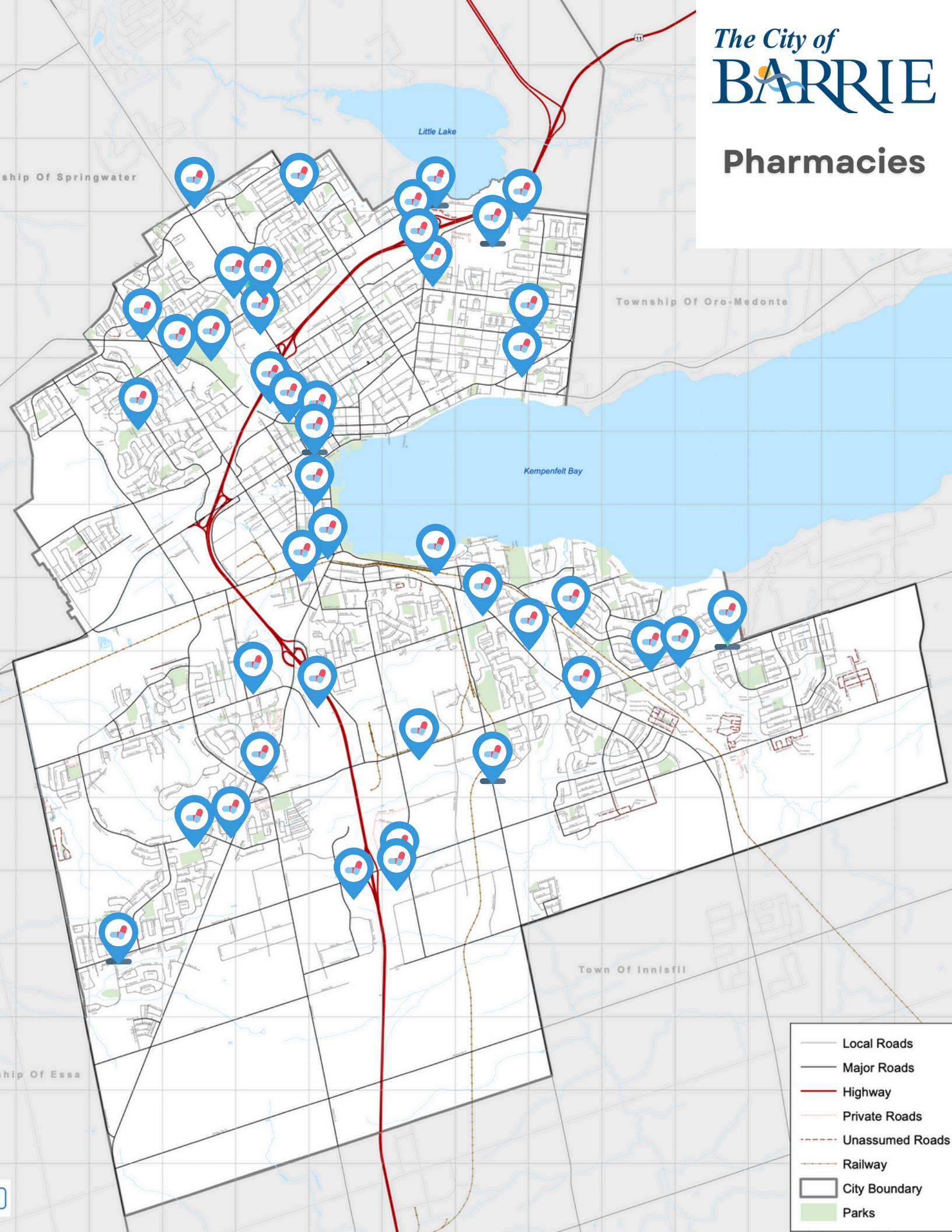
Medical Labs



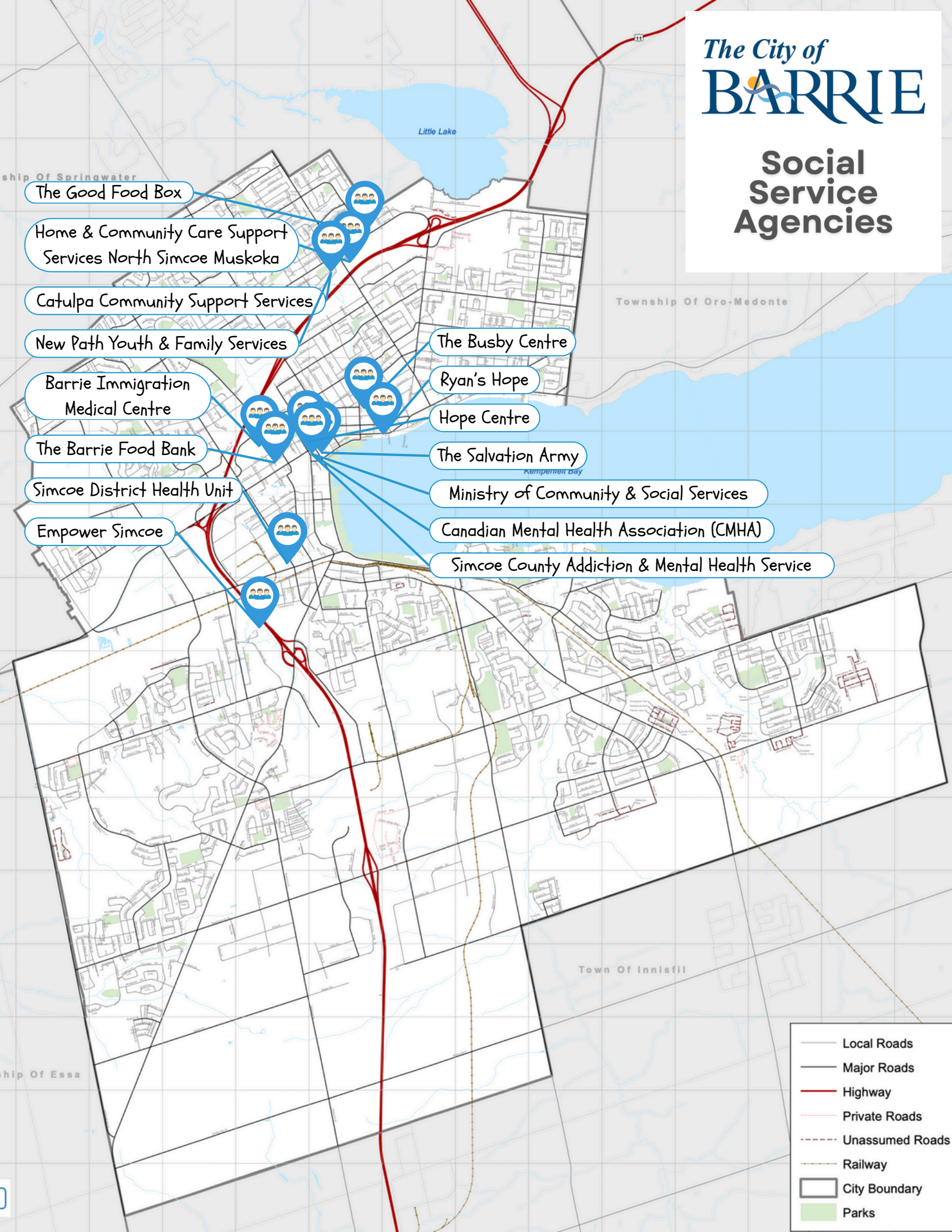
Legend

-  LifeLabs
-  X-Ray
-  Cardiology
-  Endoscopy

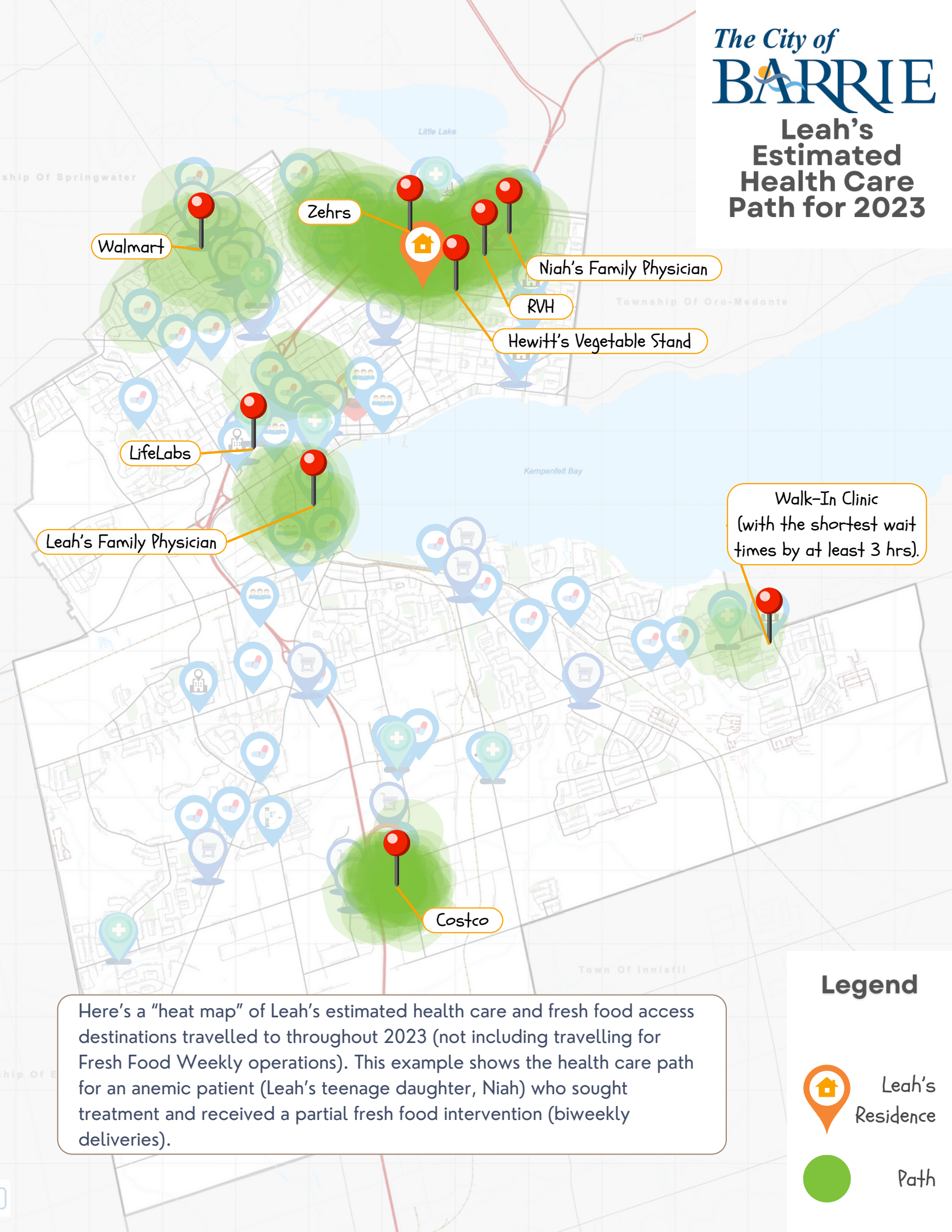
Pharmacies



Social Service Agencies



Leah's
Estimated
Health Care
Path for 2023



Leah's Family Physician

Walmart

Zehrs

Niah's Family Physician

RVH

Hewitt's Vegetable Stand

LifeLabs

Walk-In Clinic
(with the shortest wait
times by at least 3 hrs).

Costco

Legend

 Leah's
Residence

 Path

Here's a "heat map" of Leah's estimated health care and fresh food access destinations travelled to throughout 2023 (not including travelling for Fresh Food Weekly operations). This example shows the health care path for an anemic patient (Leah's teenage daughter, Niah) who sought treatment and received a partial fresh food intervention (biweekly deliveries).