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## 1. Overview

The 'Understanding our Community' and 'Persons Who Visited the Emergency Department' tools provide member organizations of Mississauga Health, Mississauga's Ontario Health Team, as well as care providers in Mississauga access to a centralized resource with data and insights on Mississauga's demographics and populations by neighbourhood.

These tools can be used by Mississauga Health members to assist them in health system decision-making and planning, thus improving health outcomes within our region and among Mississauga's populations.

## 2. Goal

Support identifying areas to target for health system planning and serve as a source of truth for decision-makers.

## About the Data

We carefully selected sociodemographic and health attributes linked to data zones in response to member feedback. The "Understanding our Community" tool reflects 2021 census data, and the linked health attributes derive from the 2019 Mississauga Health OHT attributable population.

### **What does attributed population mean?**

- i. Physician referral networks, not geography, determine attribution. Hospitals assign primary care providers based on where their patients primarily receive medical care. Patients listed with those physicians are considered part of the population.

Data in the "Persons who visited the Emergency Department" tool reflects two priority populations:

- i) Frail Older Adults: Based on persons who visited the Emergency Department (ED) and were 65 years of age or older, had been diagnosed with dementia, and admitted to the ED for any cause.
- ii) Persons seeking care for Mental Health and Addictions Care: Based on persons who visited the Emergency Department and had a primary diagnosis code related to Mental Health based on ICD-10 diagnosis of F06-F99.

Mississauga Health, in partnership with ICES, provided aggregated data for these populations, providing valuable information not only for the population that is actively seeking care but also to understand the needs of the total attributed population, including those that reside in our community and may not yet be seeking care but could benefit from earlier support in the community.

### 3. Defining the OHT Neighbourhoods

These tools use Peel Health Data Zones, rather than postal codes, to define where neighbourhoods are. Peel Health Data Zones, established by Peel Public Health, are derived from census tracts, which are consistent areas with similar economic and social features. This approach aligns with best practices adopted by Ontario Health and other major urban areas, providing users with a more detailed view of the population.

### Sociodemographic Attributes- Statistics Canada

Statistics Canada collected this data through the Census Data Survey, which is conducted every five years. This data helps stakeholders understand the population's makeup and identify trends and disparities. The survey is based on several categories, including demographics, housing, education, transportation, and employment.

The attributes selected and displayed in the tools come from co-design feedback sessions involving patients, caregivers, member organizations of Mississauga Health, and planning table representatives.

Based on 2021 census data, these attributes focus on the sociodemographic of the population. They are categorized to offer insight into the populations we serve and the environments of our patients.

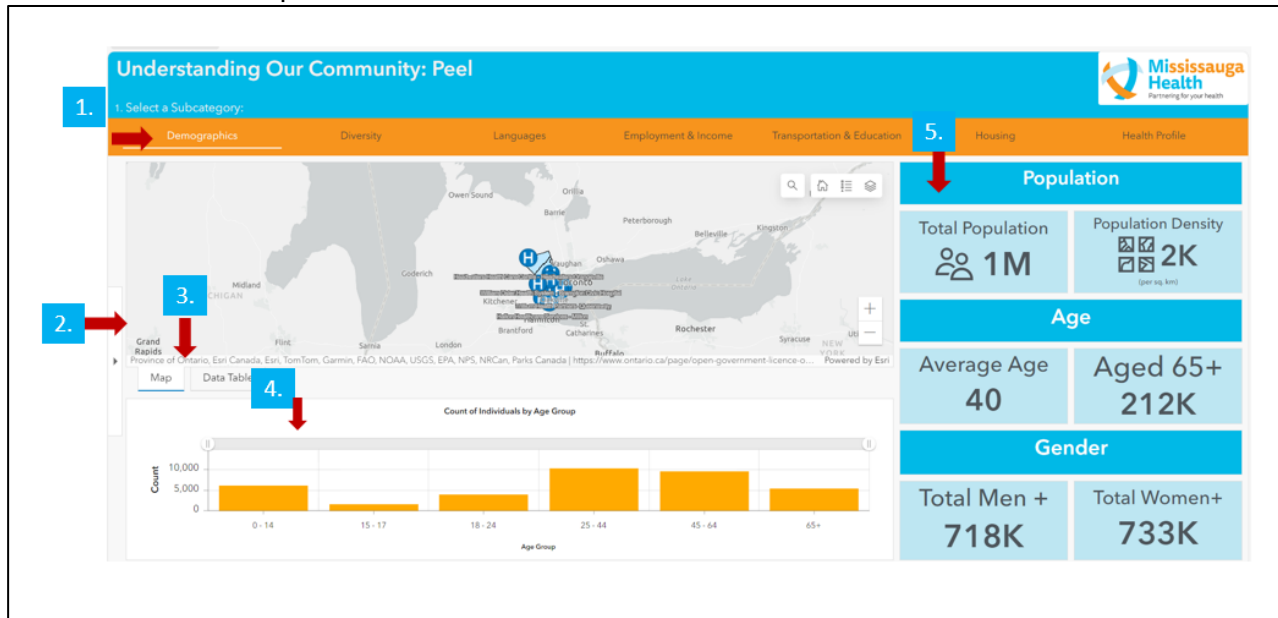
### Health Attributes

The "Persons who visited the Emergency Department" tool displays health attributes based on Trillium Health Partners (THP) Emergency Department visits in fiscal year 2019/20. These attributes represent patients who visited the Emergency Department and are shown as a percentage of the entire population within that category. As per ICES privacy standards, the denominator has been removed to prevent back calculation. However, the displayed percentages and rates offer meaningful insight into patient trends related to the following:

- Reason for visit (Chief complaint of Persons who visited the Emergency Department)
- Alternative Level of Care (ALC) count and days
- Prevalence of Chronic Diseases:
  - Asthma
  - Diabetes
  - Hypertension
  - Stroke
  - Congestive Heart Failure
  - Chronic Obstructive Pulmonary Disease (COPD)

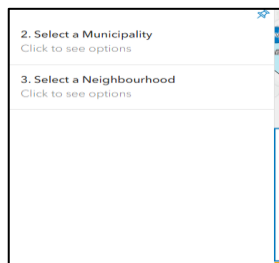
## 4. Tool Components


Both the “Understanding our Community” and “Persons who Visited the Emergency Department” tool have similar components:



The landing page of the tool shows five key components:

1. A header which displays the subcategories
2. A Pop-up window where you can filter for
  - i) Municipality
  - ii) Neighbourhoods



This window can be hidden after selection, using the  icon or pinned for reference using the



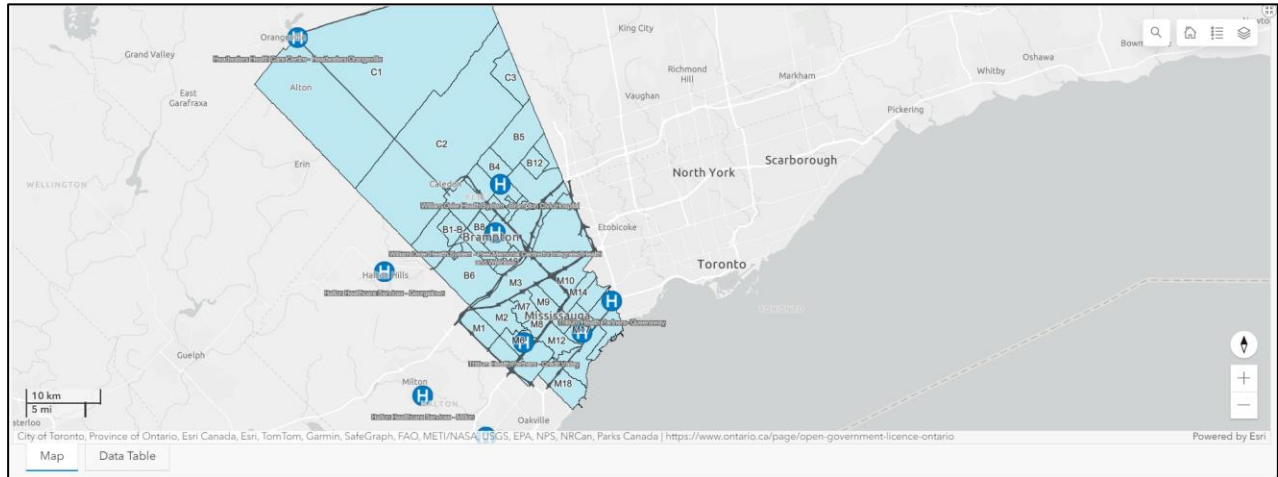
icon.

3. Map feature
4. Chart output
5. Key metrics of the population, based on subcategory selection.

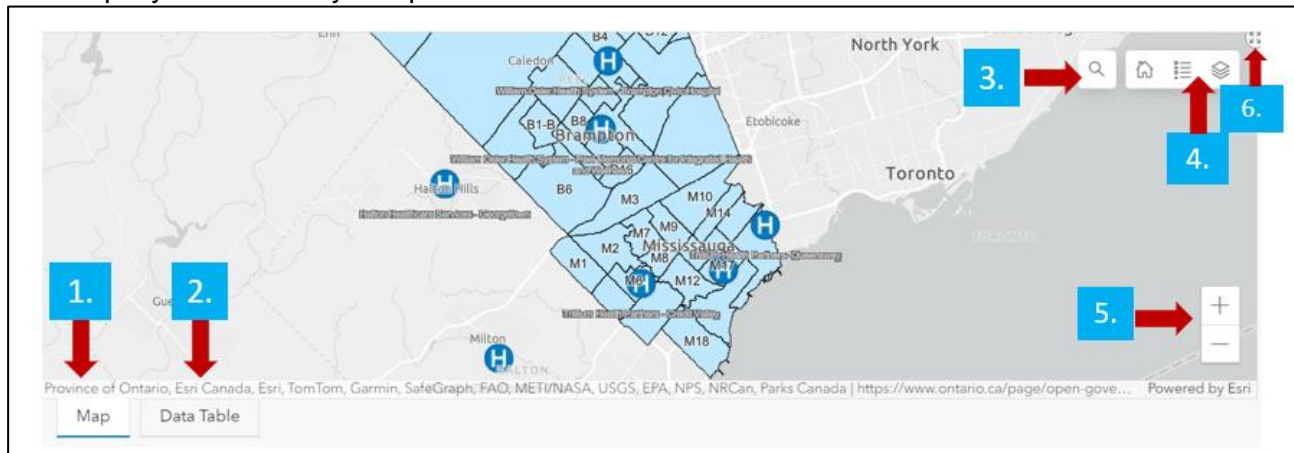
## 5. Map Layers

Setting defaults will show the boundaries of the Data Zone. The map size can be adjusted by scrolling using a mouse or trackpad to zoom in and out.

Map view (default upon opening application)



The map layer has six key components

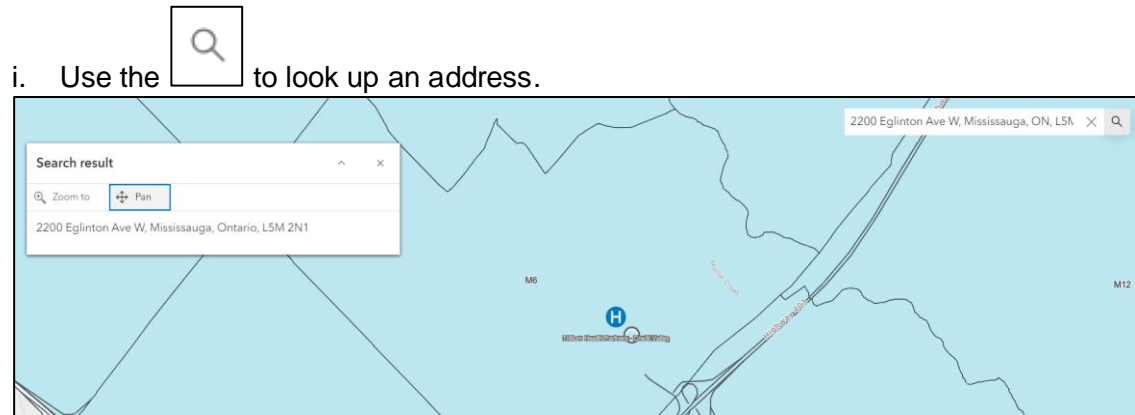



1. Map view
2. Users can switch to a data table view of attributes based on subcategory selection.


- i. A table view will appear:

Britannia/Hurontario, Matheson (M10)	
Peel Health Data Zone	M10
Municipality	Mississauga
Neighbourhoods	Britannia/Hurontario, Matheson (M10)
Population Density per square kilometre	586
Associated Forward Sortation Areas (FSA)	L4W, L4Z
Population, 2021	23,859
Average Age of Population	42
Rate of readmissions per 100 ED visits	10
<div> <div>Map</div> <div>Data Table</div> </div>	

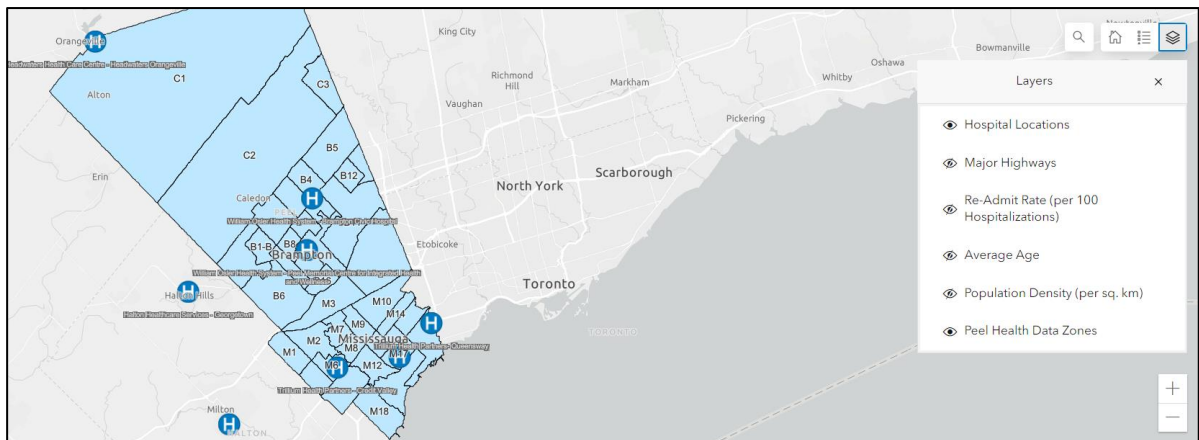
3. **Search:** Users can enter an address to see where the location falls under.

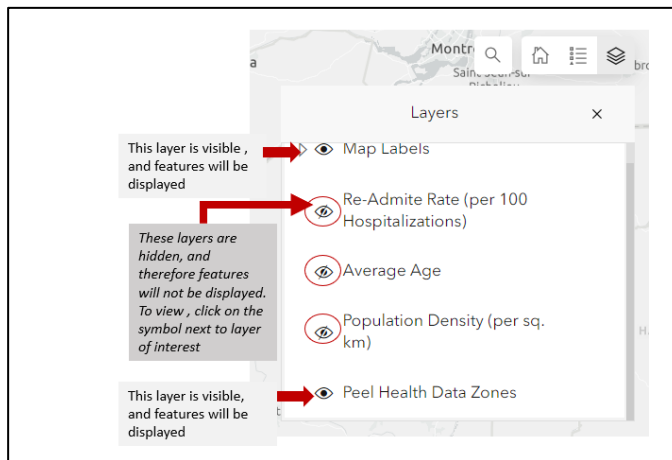


- i. Use the  to look up an address.

4. Legend (left) and layer (right) options . These allow users to symbolize different features on the map, such as:

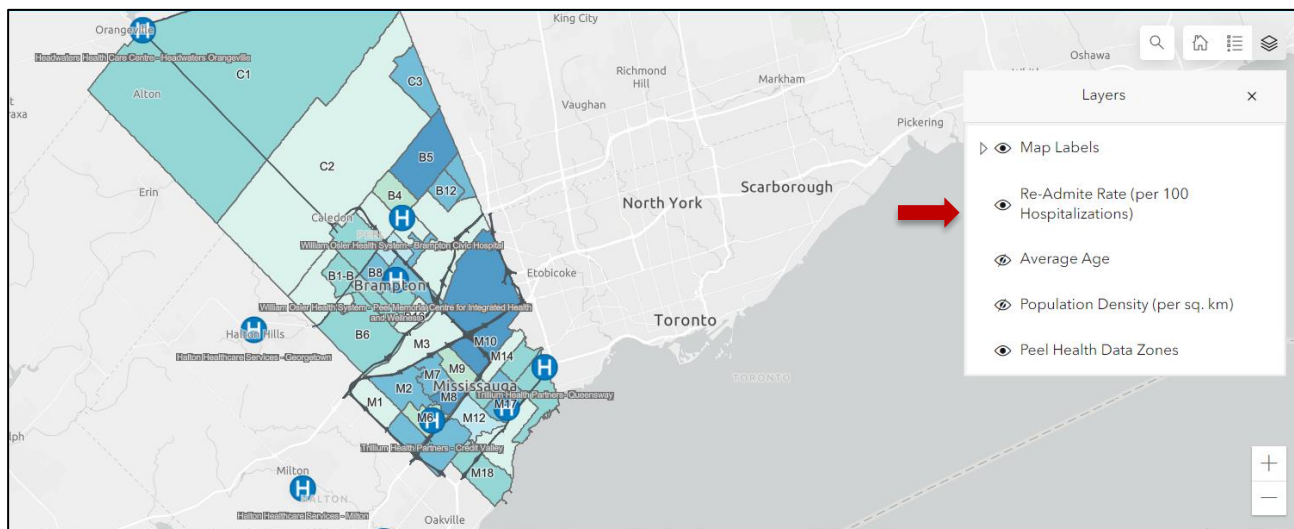
- Map Labels
- Re-admit Rate (per 100 Hospitalizations)
- Average Age
- Population Density (per sq. km)
- Peel Health Data Zone




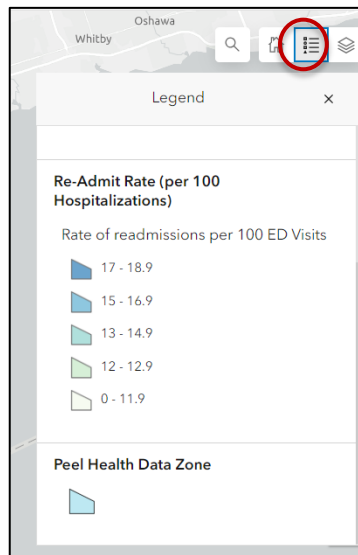




## Example: Map Layer

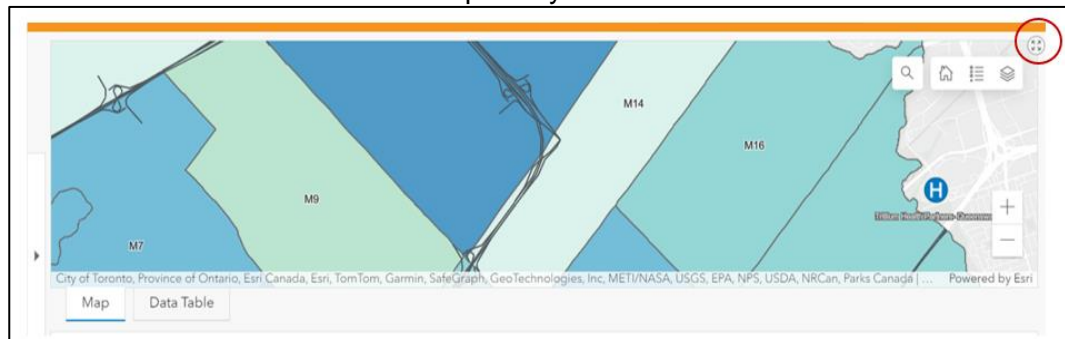
Turn on a layer for Re-Admit Rate (per 100 Hospitalizations)




Once the selected layer is on, users can select the legend icon  to view the ranges of each colour represented by the data zone:



5. The  icon will allow users to zoom in and out of the map: selecting the “+” will provide more specific detail, while “-” provides a less detailed view. Different map attributes may appear or be removed depending on the zoom.
6. To view the map in full-screen mode, hover over the top right corner of the map and select the expand icon . By selecting this icon, the map will expand to full- screen mode and other features on the dashboard will be temporarily hidden.

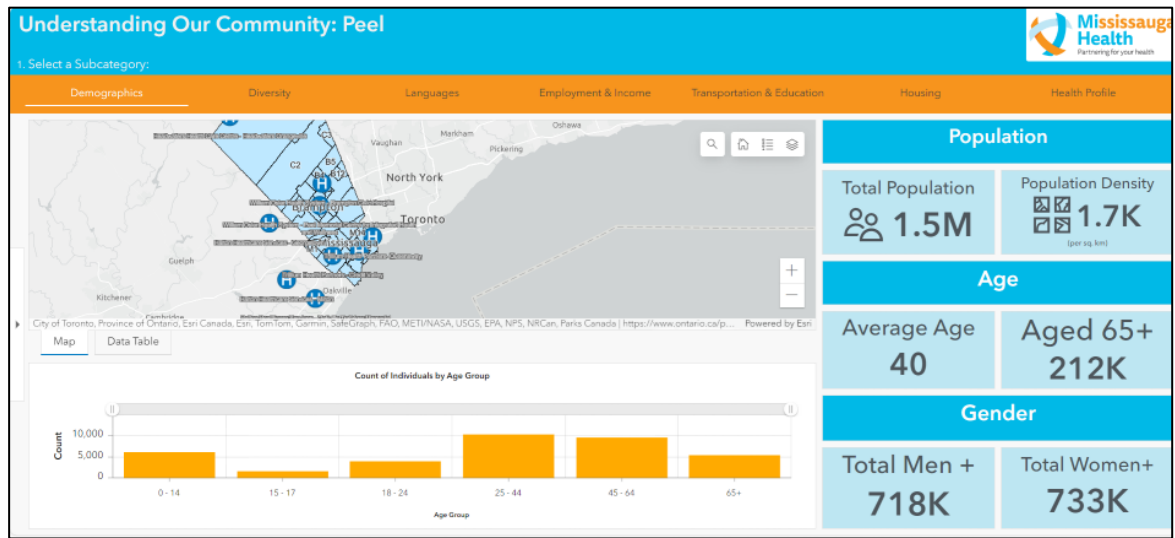


i.

- ii. Select the  icon in the top right corner to revert to default.

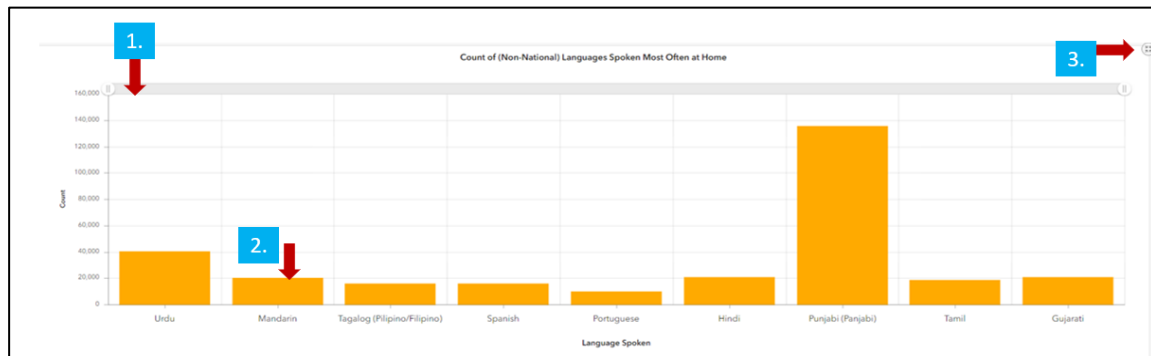


## Example: Back to the default view

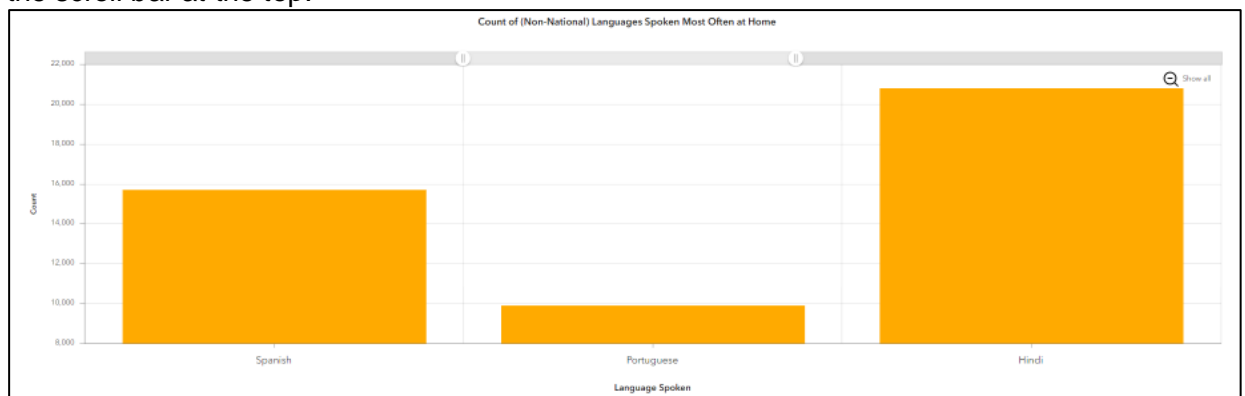


## 6. Chart Visuals: Explore

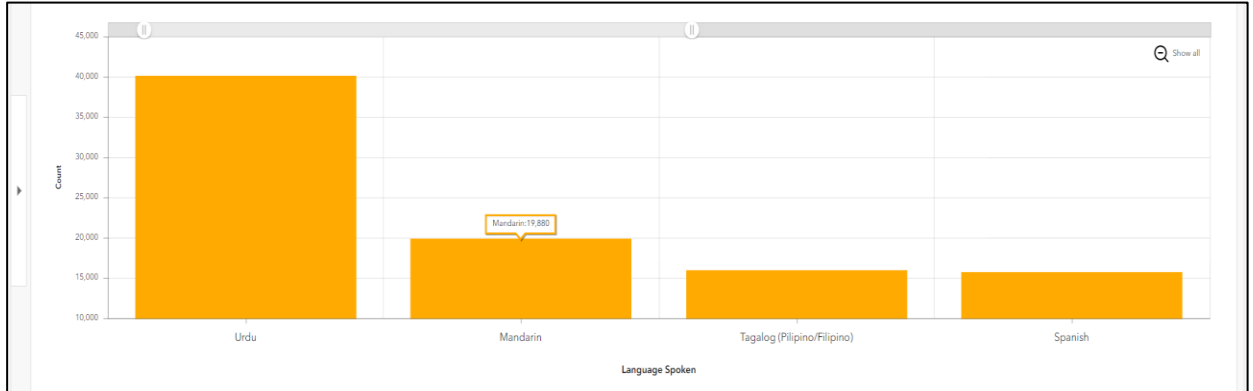
The features below allow users to explore chart data in more detail.




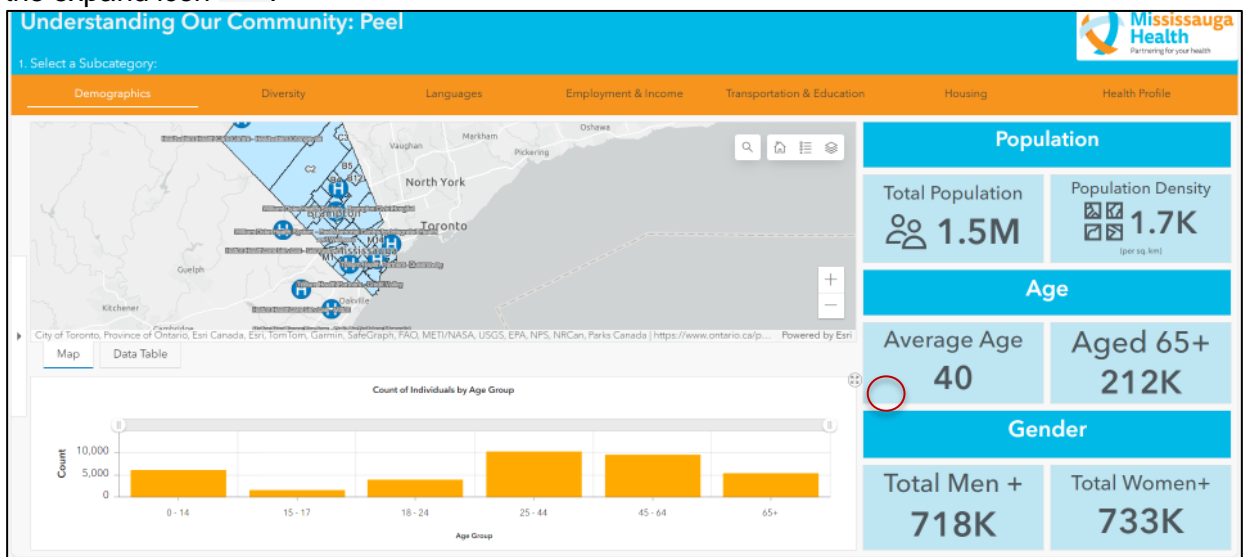
1. To focus in on the chart, users can scroll through the x-axis ("Languages Spoken") using the scroll bar at the top:



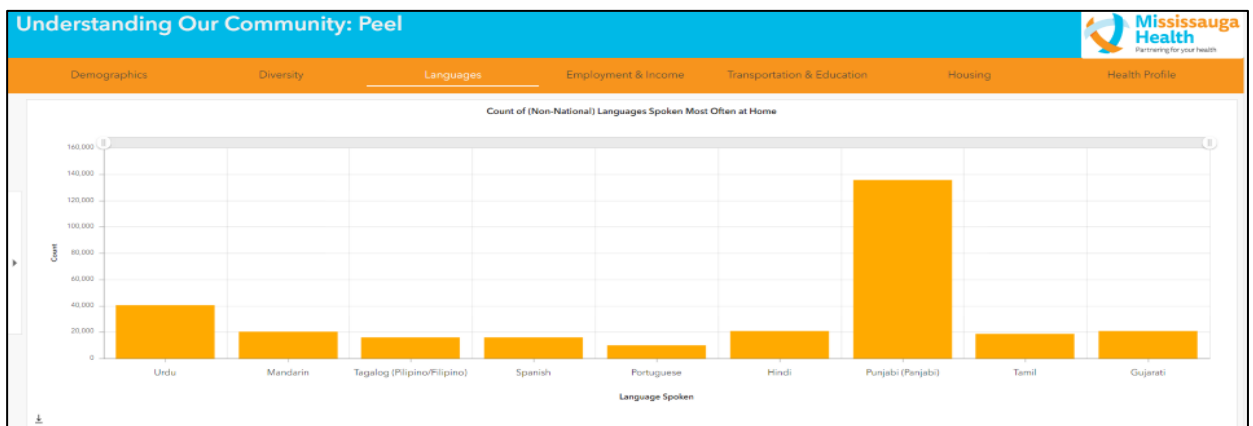
2. Users can hover over any category and the exact value will appear:




3. To view the chart in full-screen mode, hover over the top right corner of the chart and select the expand icon .



By selecting this icon, the chart will expand to full-screen mode and other features on the dashboard will be temporarily hidden.



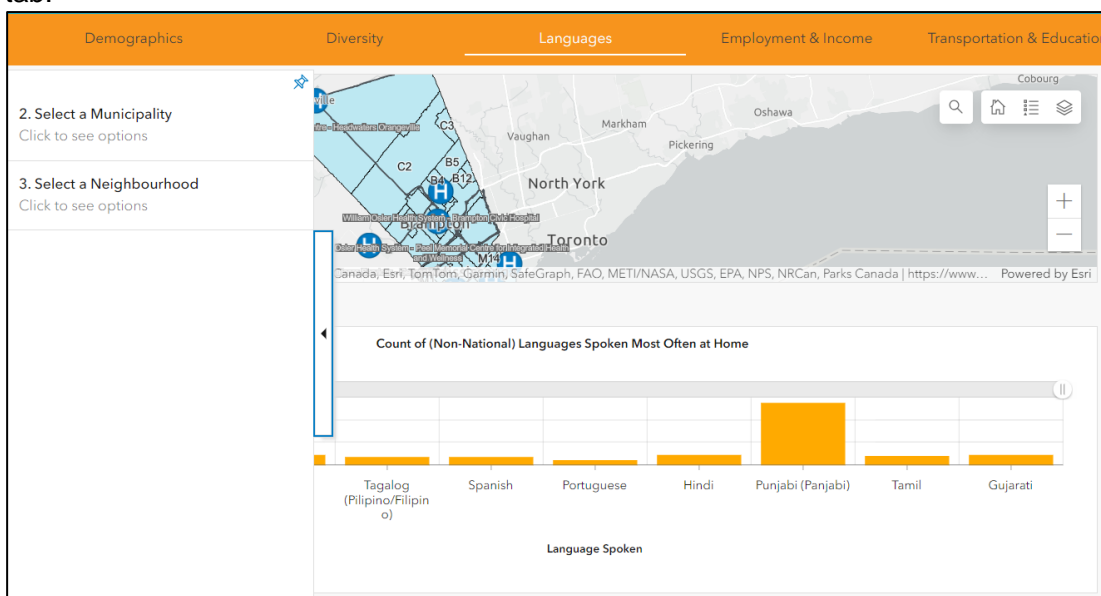
- i. To revert to default, an  icon will appear in the top right corner.

## Exploring the Community Tool: Example

Your organization is looking to set up a new initiative, which requires translating intake forms into various languages. To best understand the community needs, the Community Profile Tool is used to identify the top three languages spoken in each data zone. This enables you to prioritize translation efforts for intake forms, ensuring accessibility and inclusivity for all community members.

**Data that reflects residents of Peel** [click here](#)

1. Select subcategory variables you are interested in exploring. This could be population demographics, income levels, education, etc. In this case, we would select the “Languages” tab.



2. The display will update based on your selection, providing visual insights into the distribution of the subcategory selection. In this case, the chart at the bottom of the tool will populate with language information and the user can hover over each bar in the chart to see the exact count of individuals that speak the language in the selected region(s).

## 7. Notes about the Data

### Disclaimer

While we strive to ensure the accuracy and reliability of the data, we cannot guarantee its completeness or suitability for specific purposes. Users are advised to exercise their judgment when interpreting the data, and we disclaim any liability for errors, omissions, or damages resulting from its use. The data products are provided "as is" with no express or implied warranty, including but not limited to warranties of merchantability and fitness for a particular purpose. Third-party data providers, Mississauga Health leads, and local members are not liable for any direct, special, indirect, consequential, or other damages arising from the use of the data.

- Data has been provided in part by ICES, which is funded by an annual grant from the Ontario Ministry of Health and the Ministry of Long-Term Care. Some of the material relies on data and information compiled and provided by Cancer Care Ontario and the Canadian Institute for Health Information. We conducted this work to support the mandate and efforts of Mississauga Health.

#### Sex Data Disclaimer:

- Mississauga Health recognizes that using terms like Women and Male may not encompass individuals who identify differently. While our data collection methods have limitations, we are sensitive to the apprehensions of those who may raise questions regarding this language usage. We are committed to continuously refining terminology and language to ensure inclusivity, and ongoing updates will be made accordingly.

#### General Disclaimer:

- The dashboard will continue to be refined based on feedback received, and additional indicators will be added.

#### Citation:

- *Powered by Mississauga Health 2024*

For any additional information please contact [DataSupport@MOHT.ca](mailto:DataSupport@MOHT.ca)