Non-Driver Interactive Mapping Tool:

Basic Functionality User Guide
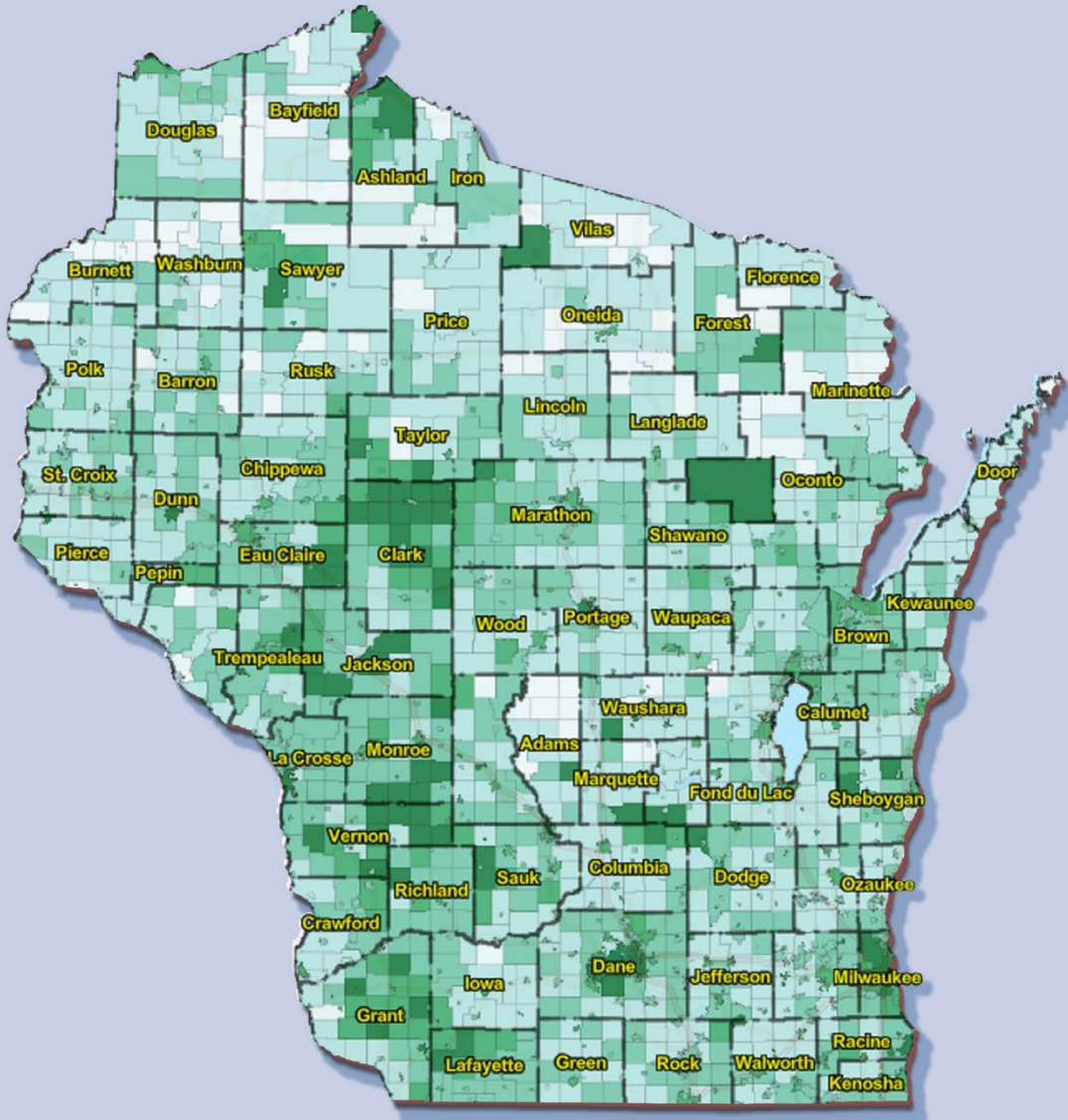
This user guide has been prepared to provide an overview of the basic functionalities within the Wisconsin Department of Transportation (WisDOT) Non-Driver Interactive Mapping Tool (Mapping Tool). The functionalities listed within this document are not an exhaustive list.

The Mapping Tool produces estimates of non-drivers within Wisconsin counties, cities, villages, towns, U.S. Census Tracts, and U.S. Census Block Groups. The Mapping Tool is intended to assist state and regional planners, municipal officials, and mobility providers through an increased understanding of where non- drivers are located. For an overview of the methodologies and data utilized by the Mapping Tool, see the Methodology and Assumptions document **here**.

The data within the Mapping Tool can be extracted in a format that is compatible with Microsoft-Excel and ArcGIS software. See the ***reviewing Non-Driver data*** section of this document on how to extract the data to a CSV file.

The Mapping Tool displays data at four geometric levels: 1) at the County level; 2) at the City, Village and Town level; 3) at the U.S. Census Tract level; and 4) at the U.S. Census Block Group level. The default display within the Mapping Tool is at the City, Village and Town level. See the "layer list" section within this user guide for an explanation of how to see data displayed at alternate levels of geometry.

# Contents

General Features and Default View

Default View

When first accessing the application, users are brought to a high-level view of the statewide map. To zoom in or out of the map, use the scroll wheel of your mouse or click the plus or minus icons circled below. *Note: Right clicking and dragging your cursor will cause the map to rotate, clicking the orientation arrow will reset the screen.*
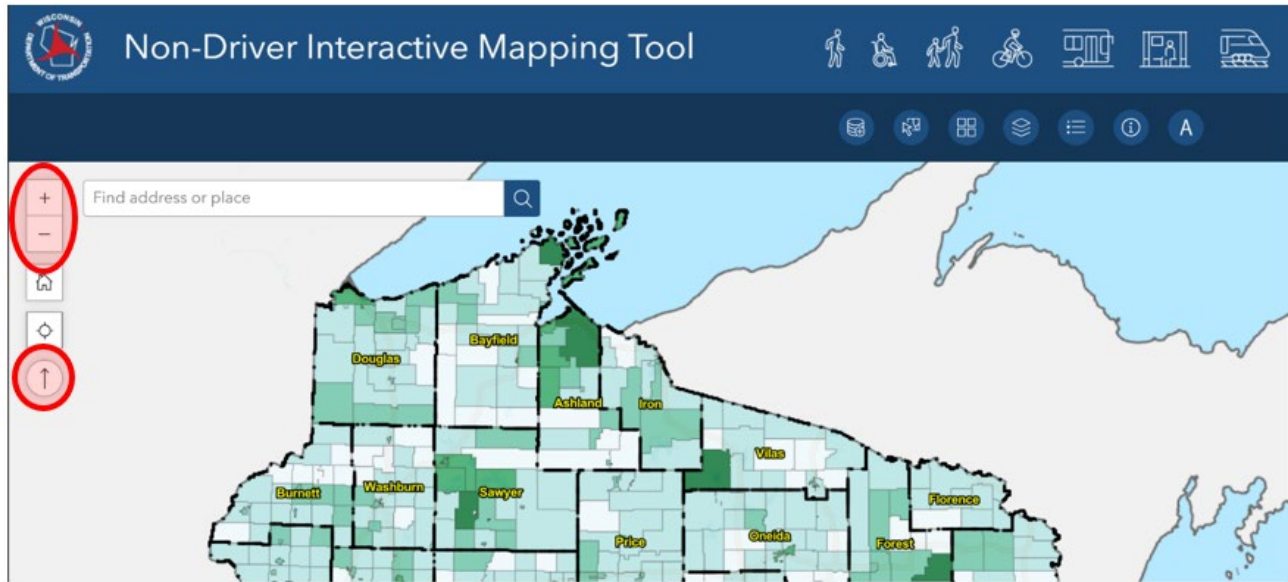

WisDOT Maps Terms of Use

Users can locate the legal notices disclaimer and terms of use by selecting the 'i' icon in the upper tool bar circled in red. The WisDOT terms of use document is applicable for all WisDOT maps applications, including the Mapping Tool.
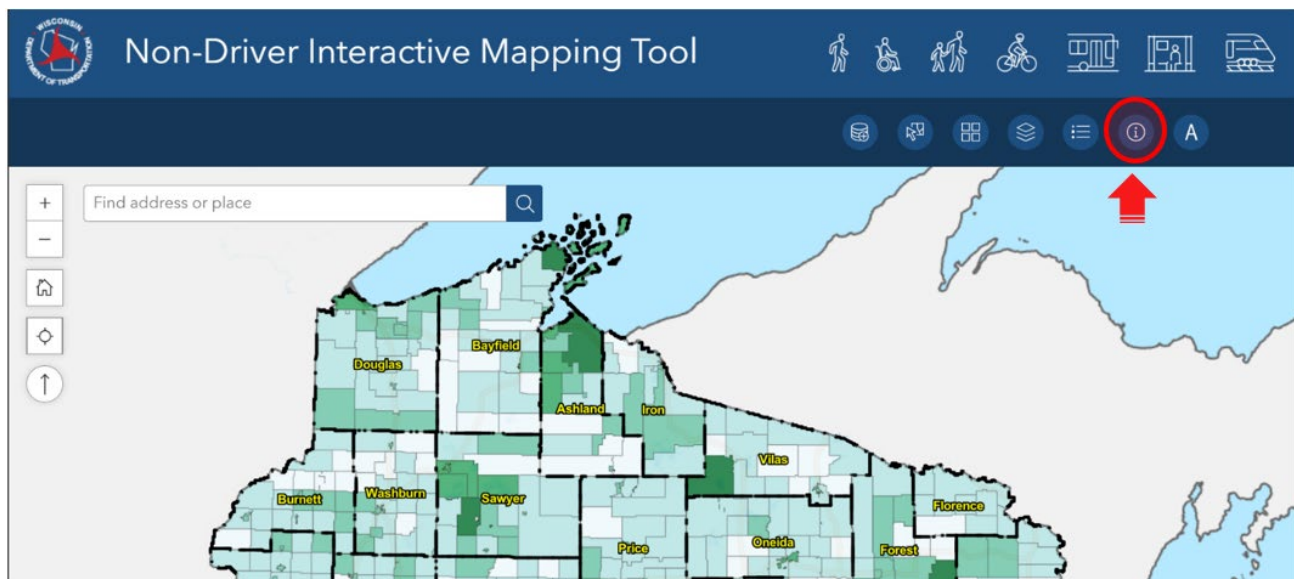
Legend and Layer Features

Mapping Tool Legend

In the upper right-hand corner of the Mapping Tool, clicking the legend icon will produce a sidebar on the right that displays a legend for selected layers, borders and color gradation scheme for the Mapping Tool.
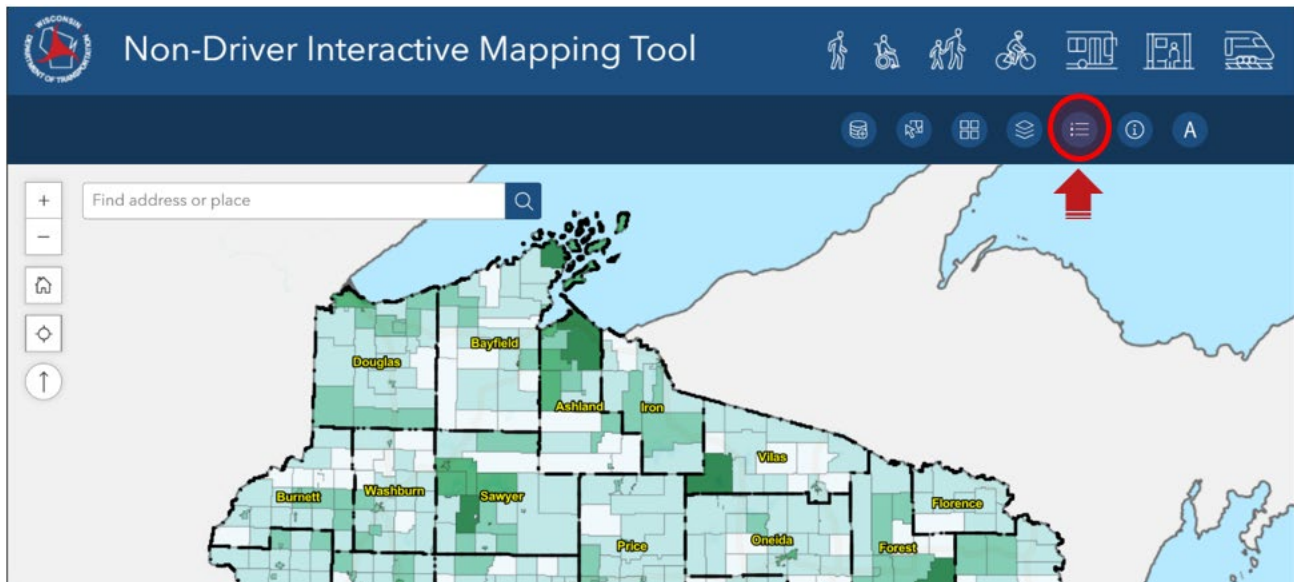
Map Layers

In the upper right-hand corner of the application, clicking the layer icon will produce a sidebar on the right that will show the Map Layers and the available layers that can be turned on or off.
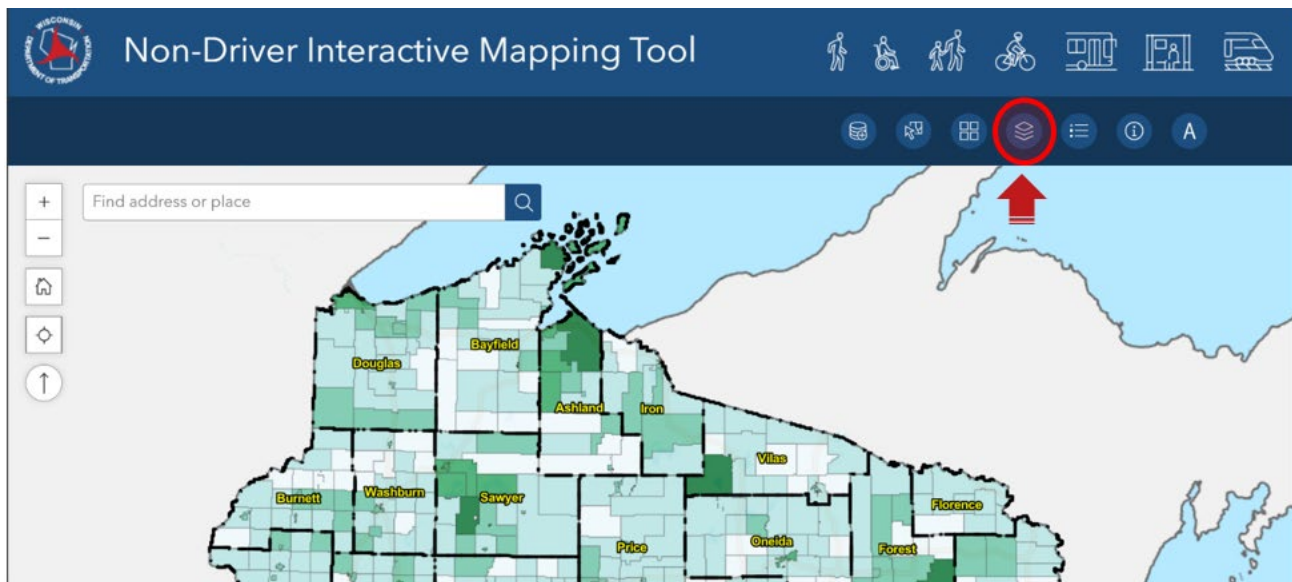
Map Layers (default options selected) - Checking or unchecking the box next to a layer name will enable or disable the layer. Layers within the Mapping Tool include the following:

| Layer Name	Description
DMV Service Center	Provides a visual depicting the locations of the DMV Service Centers in Wisconsin, including the DMV Service Center name, address, and website link, which can be accessed by selecting the DMV Service Center icon.
Boundaries – Tribal Lands	Provides a visual boundary for the Tribal Lands
Border – County	Provides a visual boundary for each of the 72 counties in Wisconsin
Border – City, Village and Town	Provides a visual boundary for the cities, villages and towns in Wisconsin
Border – Block Group	Provides a visual boundary for the U.S. Census Block Groups within Wisconsin
Border – Census Tract	Provides a visual boundary for the U.S. Census Tracts within Wisconsin
All ages – County	Provides a non-driver estimate, total population and demographic information for each county in Wisconsin; the non-driver estimate includes all ages of non-drivers, including those not of eligible driving age.
All ages – City, Village and Town	Provides a non-driver estimate, total population and demographic information for each city, village and town in Wisconsin; the non-driver estimate includes all ages of non-drivers, including those not of eligible driving age.
All ages – Block Group	Provides a non-driver estimate, total population and demographic information for each U.S. Census Block Group in Wisconsin; the non-driver estimate includes all ages of non-drivers, including those not of eligible driving age. *Note: data is not available for some block groups due to a high margin of error in the U.S. Census population data.*
All ages – Tract	Provides a non-driver estimate, total population and demographic information for each U.S. Census Tract in Wisconsin; the non-driver estimate includes all ages of non-drivers, including those not of eligible driving age.
Age 15 and older – County	Provides a non-driver estimate, total population and demographic information for each county in Wisconsin; the non-driver estimate includes only those non-drivers who are ages 15 and older.
Age 15 and older – City, Village and Town	Provides a non-driver estimate, total population and demographic information for each city, village and town in Wisconsin; the non-driver estimate includes only those non-drivers who are ages 15 and older.
Age 15 and older – Block Group	Provides a driver, non-driver, total population and demographic information for each U.S. Census Block Group in Wisconsin; the non-driver estimate includes only those non-drivers who are ages 15 and older. *Note: data is not available for some block groups due to a high margin of error in the U.S. Census population data.*
Age 15 and older – Tract	Provides a non-driver estimate, total population and demographic information for each U.S. Census Tract in Wisconsin; the non-driver estimate includes only those non-drivers who are ages 15 and older.

Map Layers (ex. All ages – City, Village and Town data layer expanded). Clicking the arrow to the left of the map layer category will extend a drop down menu of map layers. If the main map layer category box is unchecked, the sub-layers within the drop down menu will not be displayed on the map. Additionally, transparency and other options are available by clicking on the three dots in the "Map Layers" dropdown menu.
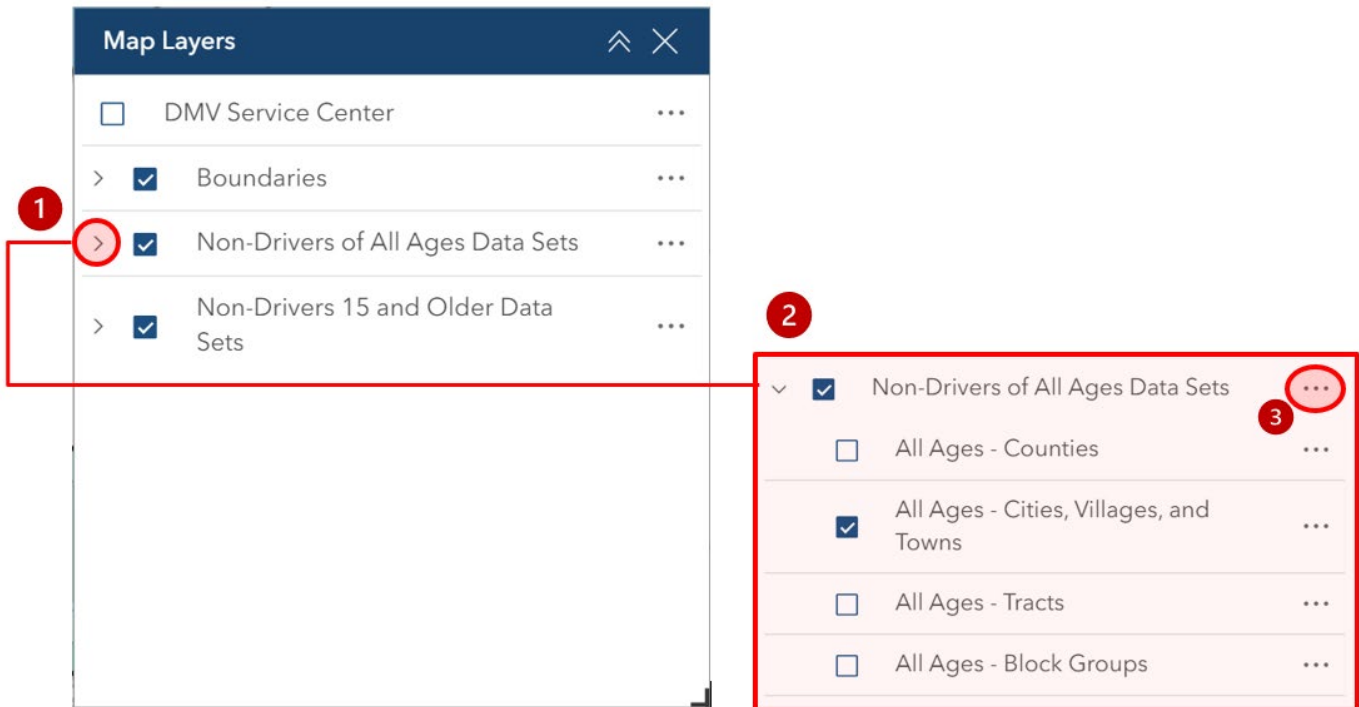

Adding a Layer

The layer icon will allow you to search for available layers in the ArcGIS Online environment. With this feature, users can add publicly available data to the map.
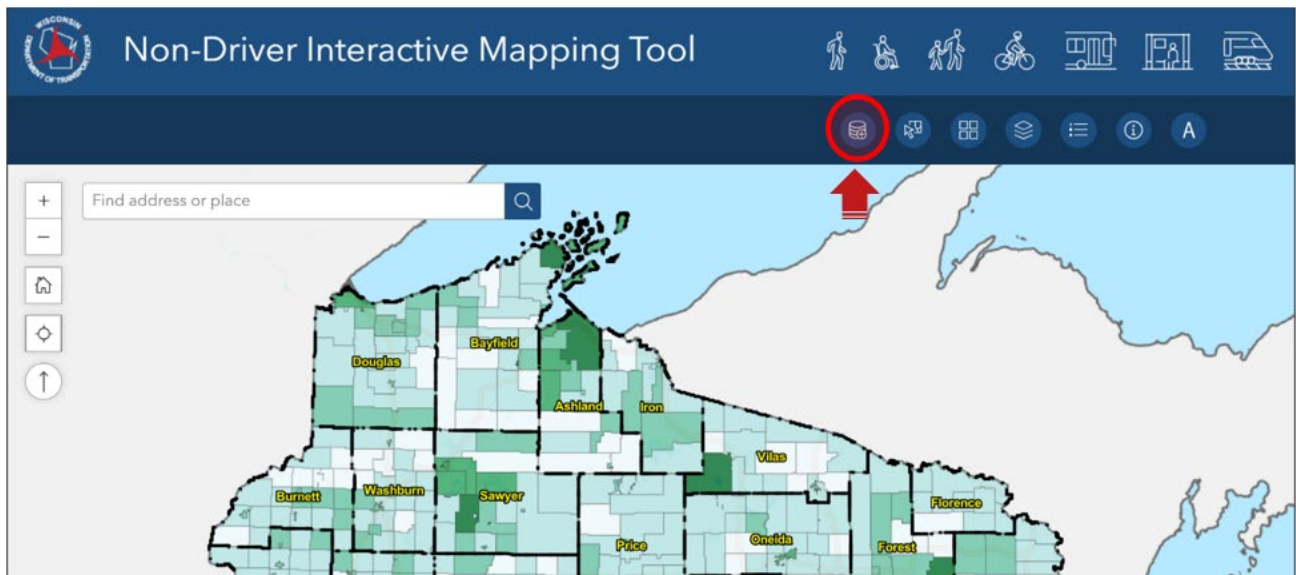
Click the Add Data icon and then click the blue button in the drop down menu titled 'Click to add data.' Another menu will appear, switch the search environment from 'my content' (default) to 'ArcGIS Online.' For example, this allows the user to search and overlay published municipal/regional transit layer data.
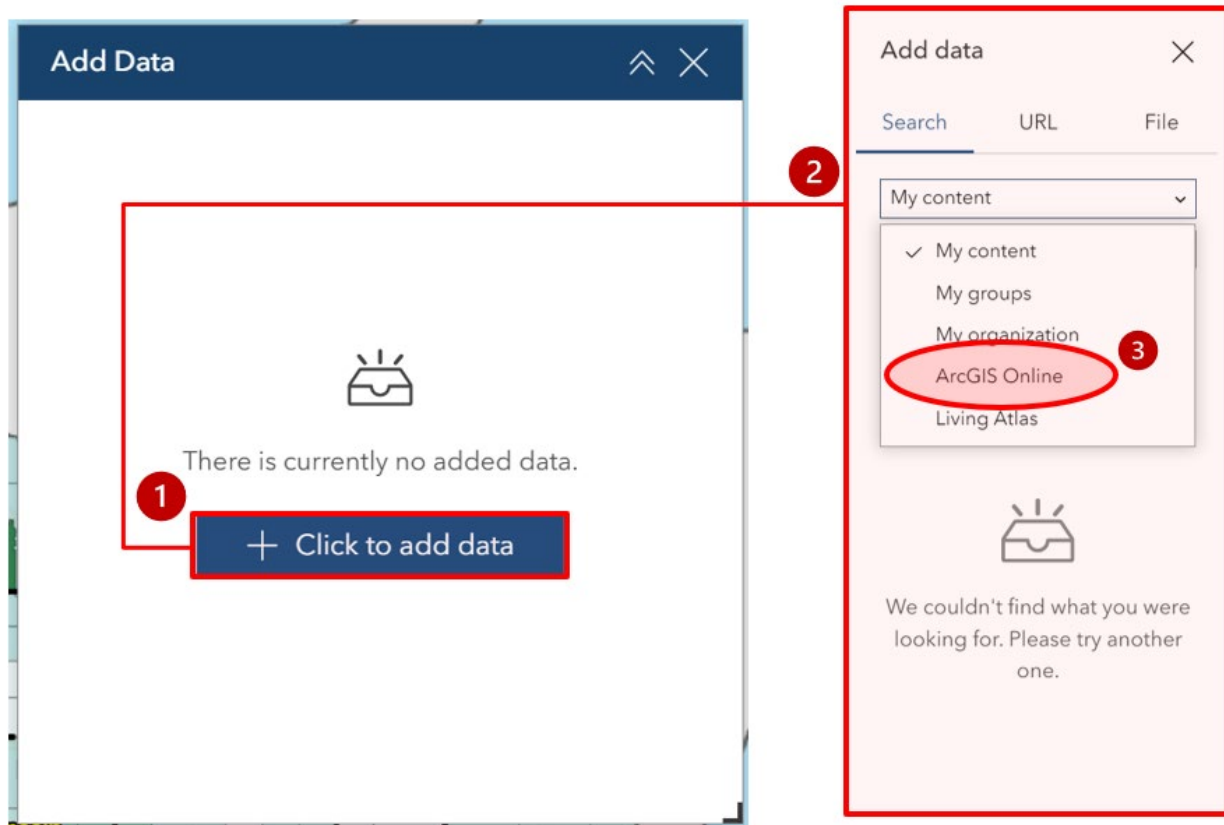

Reviewing Non-Driver Data

Once a municipality or Census Block Group of interest has been identified, clicking within the geometry (i.e., map) will open a popup box with data (example below) about the geometry, including:

- Non-Driver Estimate: an estimation of the percentage of non-drivers that reside in a selected geometry.

- Total Population and other demographic information from the US Census.

From this point, the user can click the 'Actions' button in the geometry's popup box and will have the option to export the data in a variety of formats or follow the process below to view the data in the attribute table.
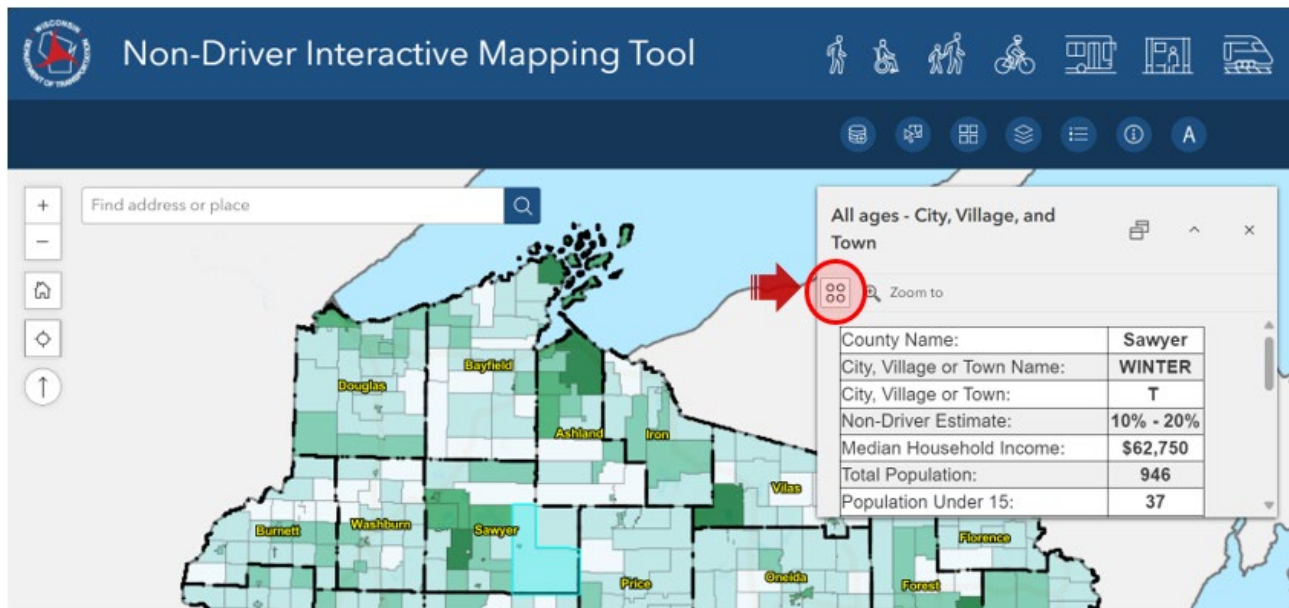
To view your selected data in the application's attribute table, press the yellow tab showing an arrow on the bottom center of the screen. Select the map layer in the top row of the attribute table to match the map layer shown in your selected data's popup menu. Then click the "Show selection" button located in the top right of the attribute table to display the data in the popup box.
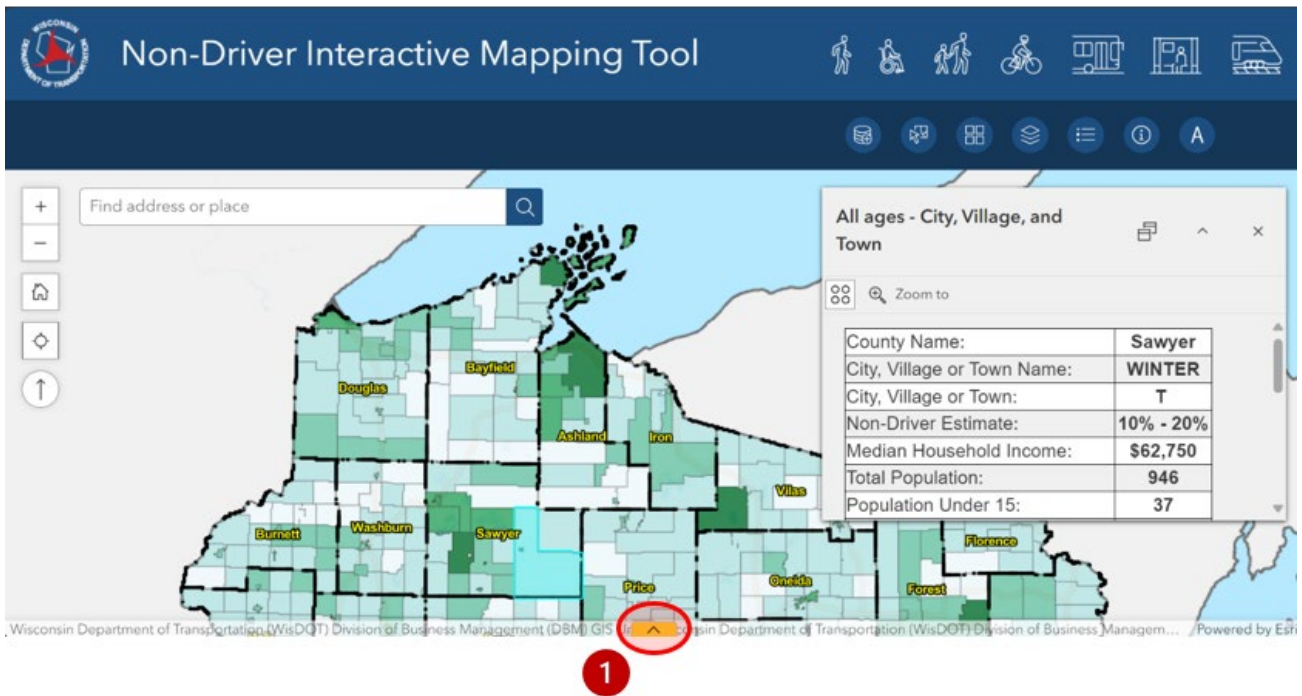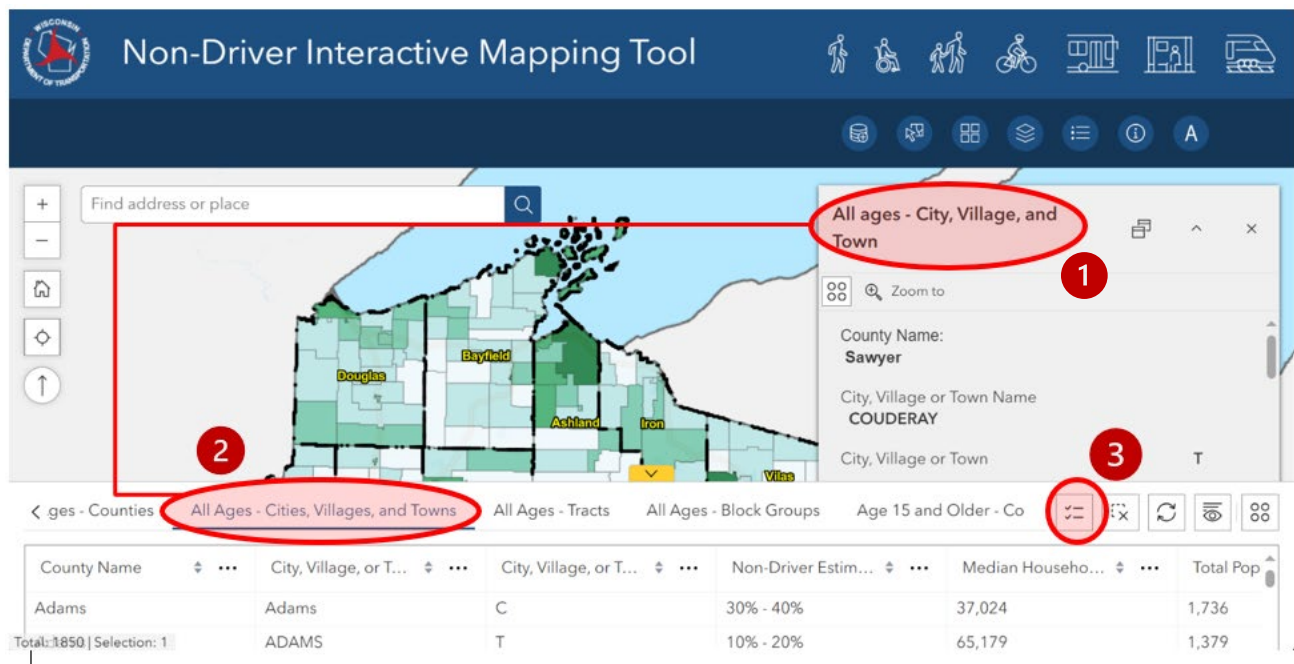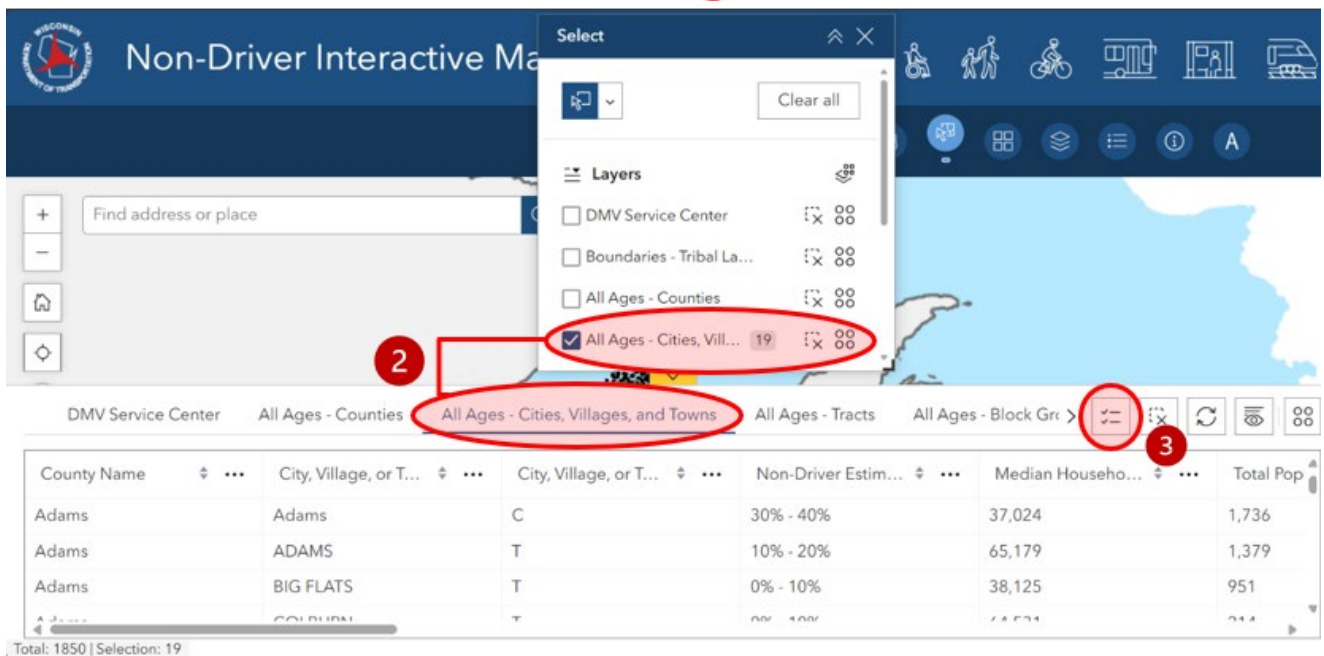
Select feature

The select feature allows the user to highlight multiple geometries at one time. First, click the Select icon in the toolbar of the Mapping Tool. You can click the drop menu arrow and box icon to initiate the selecting process. Press down on your cursor on a geographical area to start and drag the cursor to the geographics areas you would like to select, and then let go of the cursor. The selected geographic areas will have a blue highlighting.
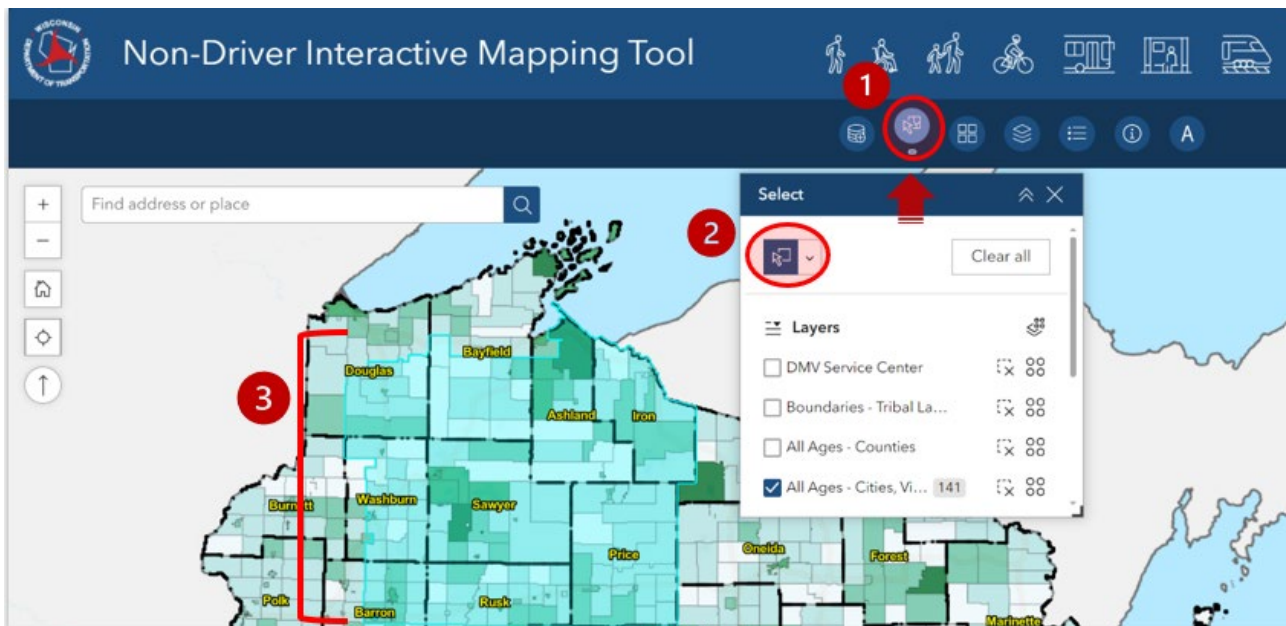
Reviewing Non-Driver Selected Data

The data from the selected geographic areas can be viewed within the attribute table. To view your selected data in the application's attribute table, press the yellow tab showing an arrow on the bottom center of the screen. Select the map layer in the top row of the attribute table to match the map layer shown in your selected data's popup menu. Then click the "Show selection" button located in the top right of the attribute table. Additionally, users can use the Select Feature's 'Actions' button in table to view selected areas' statistics and other tools.
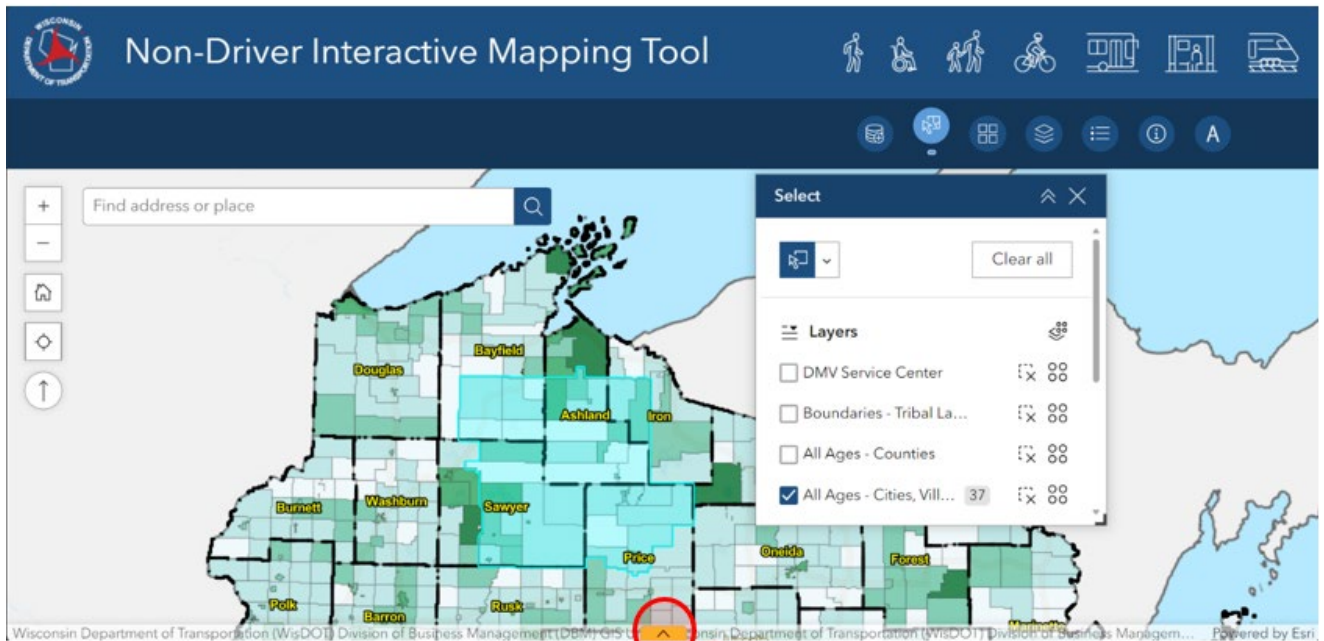
Basemap Gallery feature

Different types of base maps can be loaded and viewed by selecting the "Basemap Gallery" icon in the top icon toolbar. This feature is pre-loaded with a variety of map types (satellite imagery, topography, etc.) that the user can select the underlying layer of their map by selecting a base map within the Basemap Gallery.
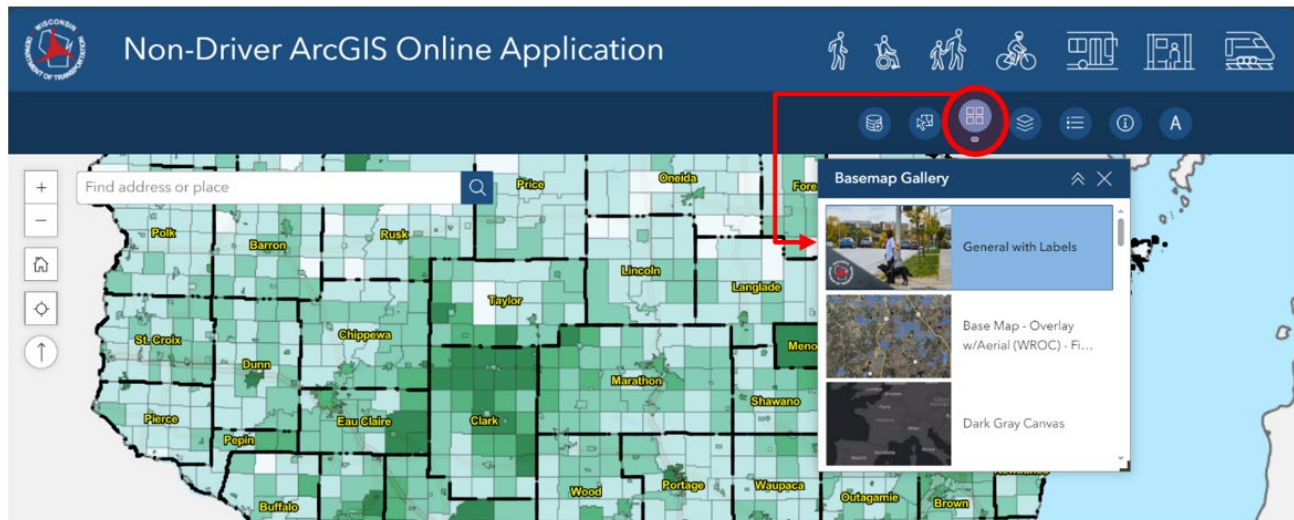
Definitions

ArcGIS Online (AGO) - is an online geographic information system service developed and maintained by Esri. The Non-Driver Interactive Mapping Tool is hosted on ArcGIS Online Experience Builder.

Attribute Table - In ArcGIS Experience Builder, an attribute table displays application data in a tabular format. The Non-Driver Interactive Mapping Tool allows users to download attribute tables in formats compatible with other applications (e.g., Microsoft Excel).

Census Block Groups - Census block groups are statistical divisions of census tracts, are generally defined to contain between 600 and 3,000 people and are used to present data and control block numbering.

Census Tracts - Census tracts are small, relatively permanent statistical subdivisions of a county or equivalent entity that are updated by local participants prior to each decennial census as part of the Census Bureau's Participant Statistical Areas Program. The primary purpose of census tracts is to provide a stable set of geographic units for the presentation of statistical data. Census tracts generally have a population size between 1,200 and 8,000 people, with an optimum size of 4,000 people.

Geometry - Geometries represent real-world objects or areas by defining a shape at a specific geographic location. They are used throughout the application to represent the shapes of, for example, counties, cities, villages, towns, census tracts, census block groups, and tribal lands.

Layer - In ArcGIS, layers are collections of geographic data. Layers reference a data source, and if ArcGIS interprets data as spatial, the data's properties and attributes specify how the layer draws on the map. Data gathered in a layer is represented with points, lines, shapes (polygons), or surfaces.

Non-Driver - Non-driving populations can include aging adults, students, low-income individuals, those with physical, mental or intellectual/developmental disabilities, those ineligible to drive, those with no access to a vehicle, or those who prefer not to drive.