

# Data Sources

## CHAPTER 2

### OUR COMMUNITIES

#### Where We Are Growing

U.S. Census Bureau, 2010 and 2020 Census; Figure shows percentage change in population by Municipality between 2010 and 2020 Census.

#### Concentrations of Communities of Concern

U.S. Census Bureau, American Community Survey, 5-year estimates, 2020. Map highlights the concentration of variables (population groups) above the regional thresholds' values for each census tract. Population groups used for these variables are Minority Population Group (Regional Threshold: 23.28%), Youth Population Group (>18) (Regional Threshold: 20.25%), Elderly Population Group (75+) (Regional Threshold: 7.91%), Limited English Proficiency Population Group (LEP) (Regional Threshold: 3.50%), Disabled Population Group (Regional Threshold: 13.51%), Low Income Population Group (Regional Threshold: 28.83%), National Population Group (Regional Threshold: 6.63%), Zero Car Households Group (Regional Threshold: 11.99%), Female Single Parent Households Group (Regional Threshold: 6.56%). More detail information on what these population group represents are available in Appendix H.

### OUR ECONOMY

#### Concentrations of Private Sector Jobs in Erie and Niagara Counties (2020)

U.S. Census Bureau, Longitudinal Employer-Household Dynamics Program, "LEHD Origin-Destination Employment Statistics (LODES): Workplace Area Characteristics," 2020. Map illustrates spatial patterns of private sector employment for 2020. LODES data provides the annual average number of private sector jobs within each census block.

#### Major Economic Sectors

U.S. Census Bureau, Longitudinal Employer-Household Dynamics Program, "LEHD Origin-Destination Employment Statistics (LODES): Workplace Area Characteristics," 2020. Map illustrates spatial patterns by job industries for 2019. The five industries pulled are based on the top 5 industries listed in the Regional Economic Develop Council (REDC) Progress Report 2022.

#### Regional Truck Annual Average Daily Traffic

New York State Department of Transportation (NYSDOT), Traffic Data 2019; The Traffic Data Viewer (TDV) is an interactive map that allows users to access traffic data information. Information is displayed on the map by selecting one or more layers. Using the TDV the Annual Average Daily Traffic (AADT) and additional traffic statistics for a road segment can be attained. The data is downloadable for offline usage. The TDV data set is maintained by the Traffic Monitoring Section. A subset of data is available on the popup using the identify function, additional data is available through the attribute table at the bottom. The AADT layer provides summary statistics for the count station segments. The Short Count layer provides details for individual counts at the specific location of data collection.

## OUR ENVIRONMENT

### 2020 U.S. Greenhouse Gas Emissions by Sector

Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2020, Environmental Protection Agency (2020); Greenhouse gases emitted by all sectors of the economy, including electric power (25% of total), transportation (27%), industry (24%), residential and commercial (13%), and agriculture (11%).

## OUR TRANSPORTATION SYSTEM

### Indexed Trips by Three Modes: Auto, Transit, & Bicycles (2020-2023)

Replica data for Erie and Niagara Counties (2019-2023); Trends estimates are based on a composite of data sources, including but not limited to road traffic, mobile location and financial transaction data. We use these to run a full activity-based model that produces disaggregate travel behaviors for the entire synthetic population for a typical weekday and weekend day each week. For spend, advanced modeling and statistical weighting methods are applied to generate a representative weekly total estimate of consumer spending activity. Together, these provide vital indicators for tracking, understanding, and comparing patterns of mobility and economic recovery across geographic regions in a high level of detail. For years 2019-2023 trip modes were pulled and indexed to show trends over the years stated.

### Surface Conditions of Buffalo Niagara Roadways by Funding Source (2021)

Greater Buffalo Niagara Regional Transportation Council; New York State Department of Transportation, Pavement Data and Roadway Surface Scores, 2020-2021. Pavement conditions are scored on a 1 to 10 scale by conducting driving surveys and visual inspections of area roadways (where roads scored 1-5="Poor"; 6 ="Fair"; 7-8="Good"; 9-10="Excellent"). Local roads primarily includes county-operated roads that are not eligible for federal aid. The majority of roads operated by municipalities are not scored by the GBNRTC. % of Roadways with Surfaces in Good or Excellent Condition by Funding Source, Buffalo Niagara, 2021

### Bridge Conditions in Buffalo Niagara (2022)

National Bridge Inventory (NBI), 2022; The NBI is a collection of information (database) describing the more than 600,000 of the Nation's bridges located on public roads, including Interstate Highways, U.S. highways, State and county roads, as well as publicly-accessible bridges on Federal lands. Good (G), Fair (F), Poor (P); These terms are defined in accordance with the Pavement and Bridge Condition Performance Measures final rule, published in January of 2017. Bridge Condition is determined by the lowest rating of National Bridge Inventory (NBI) condition ratings for Item 58 (Deck), Item 59 (Superstructure), Item 60 (Substructure), or Item 62 (Culvert). If the lowest rating is greater than or equal to 7, the bridge is classified as Good; if it is less than or equal to 4, the classification is Poor. Bridges rated 5 or 6 are classified as Fair.

### NFTA Metro System Map (2022)

Niagara Frontier Transportation Authority (NFTA), 2022; NFTA has provided schedule data in the General Transit Feed Specification (GTFS).

### NFTA System Ridership (2010-2022)

Niagara Frontier Transportation Authority (NFTA), 2022; Metro Performance Reports, Annual Ridership Data, 2010-2022.

### Reddy Bikeshare Hub Locations

Reddy Bikeshare (2022); <https://reddybikeshare.socialbicycles.com/>

### **Miles of Bikeways in Erie and Niagara Counties (2001-2021)**

Greater Buffalo Niagara Regional Transportation Council (GBNRTC), 2021; GBNRTC records bi-annual data on aggregate length of multi-use trails and designated bike ways in Buffalo Niagara region. Bike lanes and routes include designated lanes and marked shared lanes, or “sharrows,” and NYS Bicycle Routes.

### **Western New York Trail Network**

Niagara River Greenway; Map showing both existing and proposed greenway trails network

### **Freight Activity in the Buffalo Niagara Region**

Transearch, FHWA (2021); Map identifies areas where freight activity is generally highest and clusters of employment sectors that generate freight supply and demand in the region. Referenced from Greater Buffalo Niagara Regional Transportation Council (GBNRTC), Buffalo Niagara Regional Freight Plan 2021.

### **Person Hours of Excessive Delay (PHED)**

National Performance Management Research Data Set (NPMRDS), 2021; PHED metric of excessive delay, the extra amount of time spent in congested conditions defined by speed thresholds that are lower than a normal delay threshold. For the purposes of this rule, the speed threshold is 20 miles per hour or 60 percent of the posted speed limit, whichever is greater.

### **Concentration of Crashes Involving Bicyclists (2021)**

New York State Department of Transportation (NYSDOT) Accident Location Information System (ALIS) and New York State Department of Motor Vehicles (DMV), Institute for Traffic Safety Management and Research (ITSMR).

## **CHAPTER 3**

### **WHERE WE’LL BE IN 2050**

#### **Areas of Employment Growth by 2050**

Transpo Group, 2050 Projection by Block Group (2020), U.S. Census Bureau, 2020 Census; Map highlights where the total employment growth will be between 2020 and 2050.

#### **Areas of Population Growth by 2050**

Transpo Group, 2050 Projection by Block Group (2020), U.S. Census Bureau, 2020 Census; Map highlights where the total population growth will be between 2020 and 2050.

#### **Forecasted Change in Employment and Population**

Transpo Group, 2050 Projection by Block Group (2020), U.S. Census Bureau, 2020 Census; Table shows updated demographic forecasts (population and households) regional level. More detail information on what these population group represents are available in Appendix K.

#### **Moving Forward 2050 Goals**

Referenced from Greater Buffalo Niagara Regional Transportation Council (GBNRTC), Moving Forward 2050 Metropolitan Transportation Plan, 2018