Data Sources for Transportation-Related Funding Applications

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AEG Chicago 22Q4 Mobility & Transportation Task Force

12-Month Goal

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About

This document was created by the Advanced Energy Group (AEG) Chicago 2022 Q4 Task Force on Mobility and Transportation. AEG convenes quarterly stakeholder meetings in key cities with focused leadership engagement from regulatory bodies, utilities, transmission operators, city, state and federal governments, large energy users, and energy solution providers to architect a more affordable, cleaner, and reliable energy future *today*. The goal of this document, and of the task force behind its creation, is to help organizations in underserved Chicago communities to find data that supports funding applications for clean mobility and transportation initiatives.

1. ***Site Identification Data***
   - 1.1 Real estate zoning of site
     - City of Chicago Government zoning and land use map
   - 1.2 EJ community zone
     - a. From Illinois Solar for All. Mapped data is available; communities can also apply to self-designate for EJ status under the program.
     - b. EPA EJScreen
   - 1.3 R3 community status
     - Interactive map to check eligibility for R3 grant funding within IL
   - 1.4 Existing charging infrastructure
     - US DOE, Alternative Fuels Data Center
   - 1.5 EV penetration
     - State of Illinois EV registration data
   - 1.6 Traffic data
     - a. IDOT travel statistics
     - b. CMAP traffic data
     - c. Illinois Average Annual Daily Traffic (for highway system - not local roads)
     - d. IDOT Traffic Count Database System.
     - e. CDOT traffic counts
     - f. Private sites ex. ‘Replica’ and ‘StreetLight’
   - 1.7 Justice40
     - a. CEJST (White House Council on Environmental Quality)
     - b. Argonne EV Charging Justice 40 tool
     - c. USDOT Equitable Transportation Community (ETC) Explorer

2. ***Economic Benefit data***
   - 2.1 Distance to job opportunities
     - a. Job availability ‘heat maps’: US Bureau of Labor Statistics; USEPA Smart Location Mapping
     - b. CTA’s Busiest Routes
     - c. Distance ‘gradients’: CNT AllTransit™ Gap Finder
     - d. CNT Equitable Transit-Oriented Development (ETOD) Calculator & Maps

2.2 Job applicant pool
Illinois Labor Market Information

2.3 Job creation / skill training
Greencorps Chicago

2.4 Options to get to jobs
a. Illinois Green Jobs Network
b. AEG Job Board

2.5 Work or employer organized transportation opportunities
Workplace Charging for Electric Vehicles

2.6 Job Quality and Accessibility Index
CMAP Industries in Context Analysis - Clicking on the various boxes on the right side will provide data on industry "clusters" or categories, job quality, and local maps of job quality metrics and demographics

3. Equity Benefit Data

3.1 Air pollution data
a. EJScreen EPA tool
b. Climate and Economic Justice Screening Tool

3.2 Community health data (pollution impacts cancer/asthma/fetal development data)
a. EJScreen EPA
b. CDC

3.3 Resident economic data
a. American Community Survey
b. CMAP community data snapshots
c. Census LEHD On The Map

3.4 Travel distance
a. City of Chicago Grocery Store Status Map
b. Commute Time map by zip code for Chicago

3.5 Road safety statistics
a. IDOT fatal crash data, safety tiers, and Roadway Safety
b. CDOT crash data (by crash, vehicle, people)

3.6 Transportation safety
a. IDOT Transit Safety
b. IDOT Non-Motorized Transport

3.7 Local crime data
CPD Citywide Crime Map

3.8 Access to employment and quality of jobs
a. CMAP Industries in Context Analysis - Clicking on the various boxes on the right side will provide data on industry "clusters" or categories, job quality, and local maps of job quality metrics and demographics

b. Active Trans Issue Brief on "Transportation inequities in access to employment" – Provides arguments and source material

3.9 Uber/taxi usage data
City of Chicago taxi trips and Transportation Network Provider data

3.10 Food/shopping availability
GCFD Community Data Map

3.11 Walkability
CMAP Walkability map

3.12 Barriers to getting jobs based on transportation
CMAP Transit and employment density in economically disconnected areas

4. Community Transportation Needs and Preference Data

4.1 Affordability issues and options (transportation on-demand options)
CNT report

4.2 Cycling infrastructure availability – CMAP / Active Transportation Alliance / County Gov

a. City Bike Route map
b. CDOT Bikeway Installations
c. Center for Neighborhood Technology Bike Route Map
d. CMAP Bikeway inventory system (collection of local bike plans) – Scroll down and under "I want to…" on the right side, click "Open in ArcGIS Online". After the next page loads, click "Open in Map Viewer" and wait for the layers to load to the map. This may take a few moments.

4.3 Community likely usage of eBikes
Divvy ride history data and City of Chicago visualizations

4.4 Transit gaps

a. Gap Finder
b. TransitCenter (only to 2018, no post-COVID data)

4.5 Rapid transit participation (impact of EV on RT)
CTA ridership

4.6 Rapid transit access
Transit Availability Index (from 2017)

4.7 GHG Emissions
CMAP Greenhouse Gas Emissions Inventory - Chicago region GHG inventory with data available by sector (transportation) and/or by municipality or Chicago Community area

Disclaimer

Advanced Energy Group is not responsible for the upkeep of the provided data sources. All links are verified as of 11/2023.