

# **Evaluating the Sustainability Impacts of Intelligent Carpooling Systems for SOV Commuters in the Atlanta Region Dataset**

Dataset available at: <https://doi.org/10.5281/zenodo.4315005>

(This dataset supports report **Evaluating the Sustainability Impacts of Intelligent Carpooling Systems for SOV Commuters in the Atlanta Region**, <https://doi.org/10.7922/G2348HPT>)

This U.S. Department of Transportation-funded dataset is preserved by the National Center for Sustainable Transportation (NCST) in the Zenodo Repository (<https://zenodo.org/>), and is available at <https://doi.org/10.5281/zenodo.6354825>

The related final report **Evaluating the Sustainability Impacts of Intelligent Carpooling Systems for SOV Commuters in the Atlanta Region**, is available from the National Transportation Library's Digital Repository at <https://rosap.ntl.bts.gov/view/dot/61065>.

## **Metadata from the Zenodo Repository record:**

Title: Evaluating the Sustainability Impacts of Intelligent Carpooling Systems for SOV Commuters in the Atlanta Region

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Project leader(s): Guin, Angshuman

Researcher(s): Guensler, Randall; Diyi Liu

### Description:

This data repository provides the data used in the following research project supported by an NCST (UTC) grant: Evaluating the Sustainability Impacts of Intelligent Carpooling Systems for SOV Commuters in the Atlanta Region.

Please refer to Data Format and Content in the research report for meta-data information

1. ABM Trip Table (Data Set 1):  
CarpoolSim\_input.csv
2. Traffic Analysis Zones (TAZ) Shapefiles (Data Set 2):  
TAZ+ECs\_TAZ.zip
3. Employment Center Shapefiles (Data Set 3):  
TAZ+ECs\_TAZ.zip
4. Shortest Paths (Data Set 4):  
path\_retention.zip
5. Analytical Outputs (Data Set 5):  
summ\_stats\_ind.csv  
summ\_stats.csv

Publication Date: March 14, 2022

DOI: 10.5281/zenodo.6354825

Keywords: carpool, dynamic carpooling, shortest path

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Versions: Version 1

**Recommended citation:**

Diyi Liu, & Angshuman Guin. (2022). Evaluating the Sustainability Impacts of Intelligent Carpooling Systems for SOV Commuters in the Atlanta Region (1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.6354825>

**Dataset description:**

This dataset contains 2 .zip file collection, 3 .csv files, and 1 .txt file described below.

**TAZ+ECs\_TAZ.zip:**

- taz\_EC\_s\_ATL.shx
- taz\_EC\_s\_ATL.shp.xml
- taz\_EC\_s\_ATL.shp
- taz\_EC\_s\_ATL.sbn
- taz\_EC\_s\_ATL.prj
- taz\_EC\_s\_ATL.dbf
- taz.shx
- taz.shp.xml
- taz.shp
- taz.sbx
- taz.sbn
- taz.prj
- taz.dbf
- taz.CPG

**Path\_retention.zip:**

- \_\_MACOSX
  - .\_paths\_retention\_1\_10.pickle
  - .\_paths\_retention\_11\_20.pickle
  - .\_paths\_retention\_21\_30.pickle
  - .\_paths\_retention\_31\_40.pickle
  - .\_paths\_retention\_41\_50.pickle
  - .\_paths\_retention\_51\_60.pickle
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**CarpoolSim\_input.csv**

**summ\_stats.csv**

**sum\_stats\_ind.csv**

**readme.txt**

A .shx file contains compiled shape data (building blocks, fonts) in form of the machine language compiled version of an shp file. The file type is associated with AutoCAD , a CAD development platform, developed and sold by Autodesk, Inc (for more information on .shx files and software, please visit <https://www.file-extensions.org/shx-file-extension>).

The shp file extension is used for ESRI Shape format, a popular geospatial vector data format for geographic information systems software. A shapefile stores non-topological geometry and attribute information for the spatial features in a data set. A shapefile consists of a set of 3 mandatory files, along with several optional files. Each file in the set shares the shapefile name with a different extension. The main file .shp stores the geometry and must always have an index file shx. A dBASE file dbf stores all the attributes of the shapes in the main file. Additionally, a

projection file prj stores the projection information (for more information on .shp files and software, please visit <https://www.file-extensions.org/shp-file-extension>).

The sbn file extension is mainly associated with ArcView / ArcGIS geography software from ESRI. The sbn file contains binary spatial indexes, which are used only by ESRI software. The format is not documented, and is not implemented by other vendors (for more information on .sbn files and software, please visit <https://www.file-extensions.org/sbn-file-extension>).

The prj file extension is traditionally used for files that contain projects. Projects contain settings, positions of saved windows, development notes and other raw data that won't be present in the final file (for more information on .prj files and software, please visit <https://www.file-extensions.org/prj-file-extension>).

The dbf file extension is traditionally used for database file by many database applications. The original program, which used the DBF file extension for its database, was dBase. A major legacy of dBase is its dbf file format, which has been adopted in a number of other applications. For example, the shapefile format developed by ESRI for spatial data in a geographic information system uses .dbf files to store feature attribute data (for more information on .dbf files and software, please visit <https://www.file-extensions.org/dbf-file-extension>).

The sbx file extension is associated with the ArcView GIS application used to view and edit GIS data. The .sbx file contains spatial index for read-write shape used to fast access to shape files (for more information on .sbx files and software, please visit <https://www.file-extensions.org/sbx-file-extension-arcview-spatial-index-for-read-write-shape-file>).

The cpq file extension is associated with the ArcGIS, a geographic information system for Microsoft Windows operating system, developed by Esri. The cpq file stores codepage for identifying a character set (for more information on .cpq files and software, please visit <https://www.file-extensions.org/cpq-file-extension-arcgis-codepage>).

The .pickle file extension is associated with the Python Pickle module used to implement a fundamental, but powerful algorithm for serializing and de-serializing a Python object structure. The pickle file stores byte stream representing objects (for more information on .pickle files and software, please visit <https://www.file-extensions.org/pickle-file-extension>).

The .csv, Comma Separated Value, file is a simple format that is designed for a database table and supported by many applications. The .csv file is often used for moving tabular data between two different computer programs, due to its open format. The most common software used to open .csv files are Microsoft Excel and RecordEditor, (for more information on .csv files and software, please visit <https://www.file-extensions.org/csv-file-extension>).

The .txt file type is a common text file, which can be opened with a basic text editor. The most common software used to open .txt files are Microsoft Windows Notepad, Sublime Text, Atom, and TextEdit (for more information on .txt files and software, please visit <https://www.file-extensions.org/txt-file-extension>).

**National Transportation Library (NTL) Curation Note:**

As this dataset is preserved in a repository outside U.S. DOT control, as allowed by the U.S. DOT's Public Access Plan (<https://ntl.bts.gov/public-access>) Section 7.4.2 Data, the NTL staff has performed *NO* additional curation actions on this dataset. NTL staff last accessed this dataset at <https://doi.org/10.5281/zenodo.3739519> on 2022-03-31. If, in the future, you have trouble accessing this dataset at the host repository, please email [NTLDataCurator@dot.gov](mailto:NTLDataCurator@dot.gov) describing your problem. NTL staff will do its best to assist you at that time.