JOINT FLORIDA
Model Task Force & Transportation
Data and Analytics Workshop

Warehousing/Distribution Centers Data Development

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Transportation Data and Analytics

Dataset Summary

Developed in 2015 with the Florida Department of Revenue's (DOR) parcel data (91k+ records).	*Fused with online mapping resources to spatially identify large freight facility locations in Florida.*	*Only parcels containing buildings with a total area of 100,000 square feet or more were considered (2k+ parcels).*

- **Purpose:** Statewide dataset of large-scale freight facilities including Warehousing & Distribution Centers (DCs), Light and Heavy Manufacturing, and Packaging Plants. The purpose of the dataset is to identify freight facilities used in the distribution of consumer and other goods that generate moderate-to-high levels of truck traffic.

- **Usage:** The information can also serve an essential purpose in supporting freight trip generation and freight modeling efforts, as well as, the district Freight Coordinator objectives of data analysis and public outreach. The dataset may also be a useful tool for Florida freight network identification and provide support for Florida's economic development efforts.

Definition of a Freight Facility

Major Attributes in Dataset

Field	Codes	
Owner's Name	Text	
Legal Description	Text	
Address	Text	
Total Living Area	Absolute Number in sq.ft.	
Number of Buildings	Absolute Number	
Department of Revenue	41-49	
Business and Vacant	Yes, No	NEW
Industrial Park or Development	Yes, No	NEW
Source and Lookup Date	Text	NEW
Rail Access	Yes, No	NEW
Estimated Number of Bays	0-10, 11-20, 21-30, etc.	NEW

NEW = Newly added to the existing parcel dataset.

Complete Data Dictionary: http://floridarevenue.com/dor/property/resources/data.html

Assessment of Dataset

STRENGTHS (+)

- Readily available dataset in different formats. Example: csv, xlsx, .shp, .gdb, .mdb, etc.
- Manual verification with other services improves the quality of dataset
- Dataset is free and can be used without any data sharing restrictions

OPPORTUNITIES (+)

- Dataset can be improved by changing square footage criterion
- Smaller parcels can be incorporated if they are part of freight clusters. GIS tools can be utilized to identify freight cluster Example: Hot Spot tool in ArcGIS
- Freight Facility dataset can be enhanced by adding freight suppliers and consumers. Example: agriculture, retail

Assessment of Dataset (continued)

WEAKNESSES (–)

- The land use types are at high aggregation. The land use types can be more specific. Example: There should be clear distinction between distribution centers and warehouses
- The dataset doesn't have common freight related attributes like employment, sales volume, commodity flow tonnage

THREATS (–)

- Users need to be cautious of the limitations and review the documentation before applying the dataset to a project.
- Parent data source is not managed by FDOT. Hence there is no control over data collection, data attribution and data quality assurance.

Potential Applications of the Dataset

Freight Planning

- Freight Modeling, Truck trip generation, Corridor study analysis, supply chain management.

Freight Network Designations

- National Highway Freight Network, National Highway System, National Multimodal Freight Network, Strategic Intermodal System.

Economic Potential Analysis

- Impact Analysis of FDOT freight initiatives.

Complete Streets

- Incorporating Freight and Non-Motorized Modes Land Use patterns.

Roadway Design

- Design Elements, Turning radius, Pavement damage factors, etc.

We've received 20+ requests for this dataset over the years. It's been used as part of Roadway Project Scope Development, PD&E studies, Freight and Goods Movement Plans and as part of sub area studies.

How to Acquire Data and Learn More…

- **Multimodal Data Website**
  - Methodology Documentation
  - https://www.fdot.gov/statistics/multimodaldata/

- **ArcGIS Online Web App**
  - Beta
  - https://devgis.fdot.gov/arcgisportal/home/webmap/viewer.html?webmap=1cb4b92e2b3947dc90222e365578a09d

Next Steps – Survey and Update Data

Distribute Online Survey to:

1. Identify the applications of the dataset for different users.
2. Create a list of different attributes users would need for their applications.

SurveyMonkey

Link to Survey:

Coming Soon…

Next Steps – Survey and Update Data (continued)

Reasons to update Data:

1. Fuse it with other relevant datasets.
2. Update with the latest year's extract.
3. Incorporate Survey needs into final product.
4. Include parcels with 20k+ square feet. rather than focusing solely on 100k+ square foot. parcels.

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Questions?

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