



# Using FAF2 Port Data to Model Freight in a Medium Sized Port City

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•Office for Freight, Logistics & Transportation

## Study Objective

- LRTP for Mobile, AL
- Collect socio-economic data (population/employment)
  - Never contacted Port
- Treat the Port as a Special Generator?
- Can we use the federal freight flow data for the Port of Mobile in the Urban Travel Model?
  - Freight Analysis Framework Version 2.2



## Study Area: Mobile, AL

- Mobile, AL
- 300+ existing TAZ in Urban Model
  - Few Freight Generators
- 24-hour model
- TRANPLAN/CUBE
- 3-step model



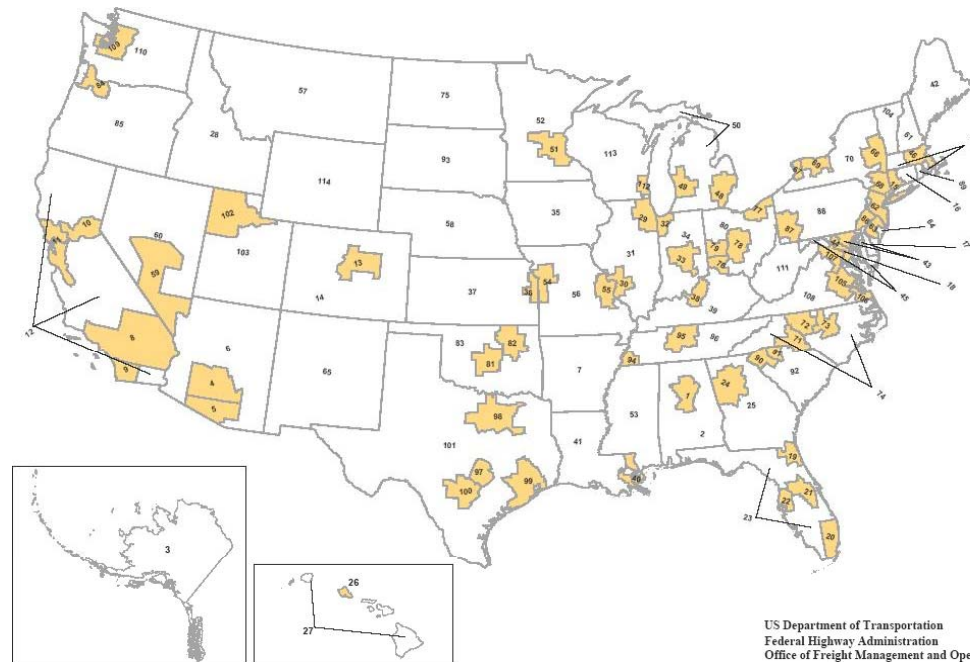
- Before this project the amount of freight explicitly modeled - None!
- Truck trips were estimated percentage as a Non Home Based trips – factored as a percentage of employment at the port



# FAF2 Data

- FAF2 Data
  - 114 Zones
  - 17 Ports of Entry
  
- Includes Port of Mobile Zone 123

Geographic Areas for the Freight Analysis Framework and 2002 Commodity Flow Survey





## Port of Mobile

- FAF2 Data
  - Expecting several thousand truck loads/day
- What roads will these truck use?
- Infrastructure needs?

## Modeling Goals

- Develop a truck OD matrix for the Port of Mobile
- Use FAF2 Data to populate the matrix



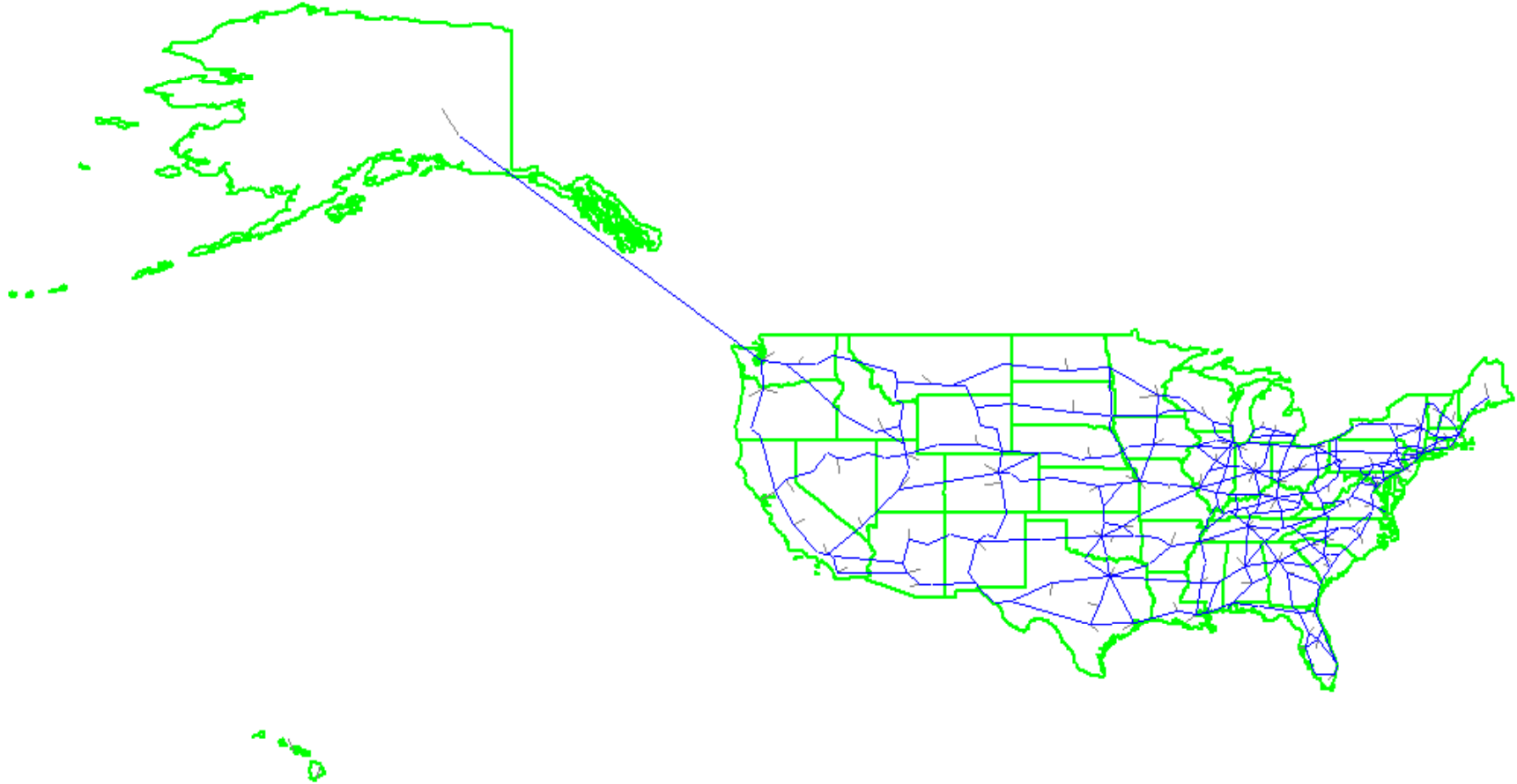


## Trip Purposes

- Port-Nation
- Port-Alabama
- Port-Mobile County



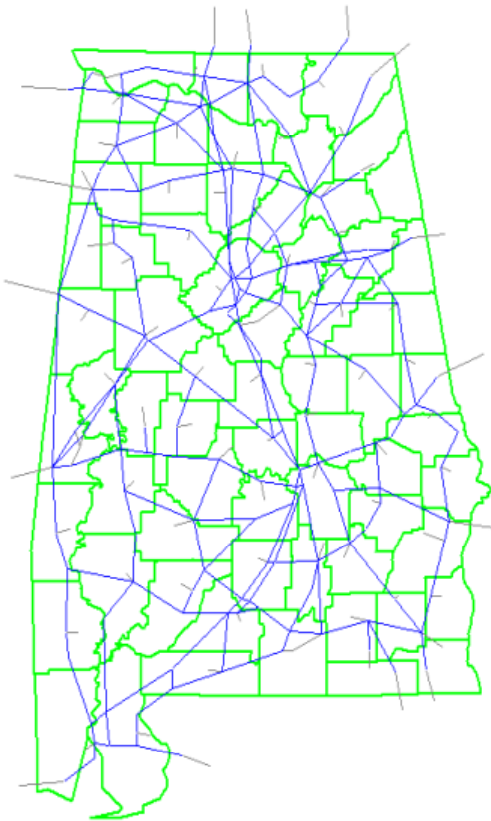
# Port to Nation



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## Port to Alabama



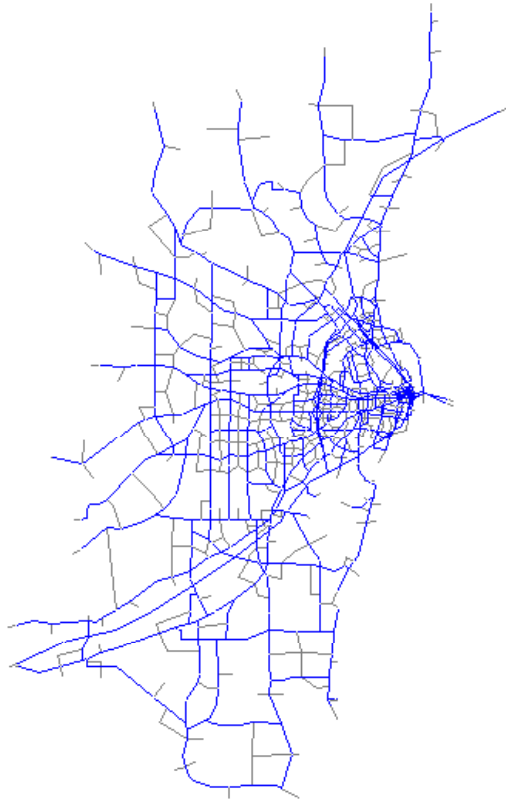
Includes:

- Port to FAF2 Zone 1
- Port to FAF2 Zone 2 (but not Mobile County)

Distribution to counties in Zone 2 based on Population/Income and Value of Shipment



## Port to Mobile



Distribution to locations in  
Mobile based on:  
Freight Analysis Zones

Disaggregated by:  
using Freight Generated  
Manufacturing Employment



# Port Assignment Issues

- Incorporate Local Knowledge
- Shipments in and out
  - Lack of unloading/loading
- Freight Handlers



- Uses FAF2 data and local data
- Multi-tiered modeling methodology
- Understand issues such as turn-over and Freight Handlers
- Include Port of Mobile when considering infrastructure improvements





Thank You

Questions?



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