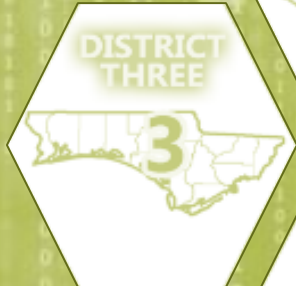




APPENDIX B: SURVEY QUESTIONNAIRE AND RESULTS

JUNE 2016



APPENDIX B: FREIGHT AND MODAL DATA INVENTORY FEEDBACK SURVEY QUESTIONNAIRE AND DATA RESULTS

Appendix B.1: Survey Questionnaire Freight and Modal Data Inventory Feedback Survey

Feedback Survey

As part of the Transportation Statistics (TRANSTAT) Office Freight and Modal Data Inventory project, the Freight Data support team is tasked to gather and coordinate **freight and modal data** business intelligence through internal/external offices, and identify the available freight and modal data and information. Please note that this survey wants to gather information about data which are used in functions which are impacted by freight only.

This inventory includes identifying current office routines, potential projects, plans and plan updates, documents, studies, resources, and practices. This survey aims to know about your freight and modal data usage, needs and procedures. The information you provide through this survey will add valuable guidance to enhance FDOT's Freight and Modal Data Program.

The survey will take around **10 minutes** to complete. If you have questions regarding the study, please contact the principal investigators Joel Worrell at Joel.Worrell@dot.state.fl.us

Data Inventory

1. Do you work in the Florida Department of Transportation?
 - Yes (please go to Question. 2)
 - No (please go to Question. 11)

2. What office in Florida Department of Transportation do you belong to?

3. Do you acquire any freight data from another FDOT office?
 - Yes (please go to Question.4)
 - No (please go to Question.20)

Freight and Modal Data Inventory – Florida Department of Transportation Office

Please answer following questions about acquiring freight and modal data from other FDOT offices:

4. Which FDOT office/offices do you acquire data from? _____
5. What are the datasets you acquire from them?
6. With whom do you coordinate? _____
7. Is there a data request procedure which your office follows? _____
8. Is there a data request procedure which you require other FDOT offices to follow when requesting data from you? _____
9. Please list the data resources you acquire and use from entities outside of FDOT.

10. How do other offices provide you the freight and modal data? (Check all that apply)
- Compact Disc (CD) or Digital Versatile Disc (DVD) or pen drives or portable hard drives
 - Online File Delivery Services like File Transfer Appliance, drop box, one drive
 - Email attachments
 - Other (please specify) _____

Freight and Modal Data Inventory – Other Agencies

11. What state agency do you belong to? _____
12. If you don't belong to any state agency indicated in earlier question, please provide the name of your work organization/institution.

13. Do you acquire any freight and modal data from a FDOT office?
- Yes (please go to Question 14)
 - No (please go to Question 20)

Please answer the following questions about acquiring freight and modal data from FDOT:

14. Which FDOT office/offices do you acquire data from?

15. What are the datasets you acquire from them?

16. With whom do you coordinate?

17. Is there a data request procedure which your office follows?

18. Do you administer a data request procedure which you require other FDOT offices follow?

19. How do FDOT offices provide you the freight and modal data? (Check all that apply)
- Compact Disc (CD) or Digital Versatile Disc (DVD) or pen drives or portable hard drives
 - No Online File Delivery Services like File Transfer Appliance, drop box, one drive
 - Email attachments
 - Other (please specify) _____

Planning, Studies, Analysis and Reporting Functions

20. At what frequency do you need freight and modal data and information?
- Daily
 - Weekly
 - Monthly
 - Annually
 - Never
 - Other (please specify) _____
21. What planning, reporting, studies and analysis functions are you responsible for, that require freight and modal data? _____

22. Are there any goals and objectives of your business plan not currently supported through the required freight and modal data and information?

23. What are specific gaps in "big data" encountered in the planning and reporting functions within your organization? Examples include insufficient server space, licensing, acquisition costs, data maintenance, public information, etc. Please be specific. _____

Data Collection and Management

24. Please provide the contact information from whom to get data maintained by your office in future.

25. Do you conduct any freight or modal data collection(s) for any initiatives?

- Yes (please go to Question.26)
- No (please go to Question.29)

Please list your top 3 freight and modal data collection initiatives and provide details about them.

- **Freight and Modal Data Inventory Feedback Survey**

26. Please answer following questions about your data collection - 1

Name / Title of Data Collection _____

Purpose of the Data Collection _____

Methodology of the Data Collection _____

Update Schedule of the Data Collection _____

27. Please answer following questions about your data collection - 2

Name / Title of Data Collection _____

Purpose of the Data Collection _____

Methodology of the Data Collection _____

Update Schedule of the Data Collection _____

28. Please answer following questions about your data collection - 3

Name / Title of Data Collection _____

Purpose of the Data Collection _____

Methodology of the Data Collection _____

Update Schedule of the Data Collection _____

29. Where does your data currently reside? (Check all that apply)

- Server
- Computer
- Compact Disc (CD) or Digital Versatile Disc (DVD) or pen drives or portable hard drives
- Paper format
- Data Center or Other (please specify)

30. What freight and modal dataset requests do you get from other public, federal, university or industry entities?

Data Services/Communication Tools

31. What communication tools do you use in your daily operations?

32. Which of the following communication tools features would be beneficial to your business operations? (Check all that apply)

- Web Mapping Viewer
- Customer Feedback
- Data Download
- Creating Analytics
- Dashboard Reporting
- Other (please specify) _____

33. Where would you envision your data be housed to be most effective to your business operations?

- Florida Agency for State Technology (AST)/ formerly Southwood Shared Resource Center (SSRC)
- University
- Consultant
- Your office
- Any other office (please specify) _____

34. Where would you envision your common operating freight and modal communication tool be housed to be most effective to your business operations?

- Florida Agency for State Technology (AST)/ formerly Southwood Shared Resource Center (SSRC)
- University
- Consultant
- Your office
- Any other office (please specify) _____

Additional Comments and Suggestions

35. Please provide any additional comments and suggestions. _____

Contact Information

36. Please provide your basic identification information

Name _____

Agency _____

Email Address _____

Phone Number _____

Appendix B.2: Survey Raw Data Results

Question 1 Results:

Do you work in the Florida Department of Transportation?		
Response	Number	Percent
Yes	19	100.00%
No	0	0.00%

Question 2 Results:

What office in Florida Department of Transportation do you belong to?		
Office	Number	Percent
Aviation and Spaceports	1	5.26%
Design	4	21.05%
Freight Logistics and Passenger Operations	2	10.53%
Intermodal Systems Development	2	10.53%
Maintenance	1	5.26%
Safety	1	5.26%
Seaport and Waterways	3	15.79%
Systems Planning	3	15.79%
Traffic Engineering and Operations	1	5.26%
Unknown	1	5.26%
Total Response	19	

Question 3 Results:

Do you acquire any freight and modal data from another FDOT office?		
Response	Number	Percent
Yes	10	52.63%
No	9	47.37%

Question 4 – Question 8 Results:

Which FDOT office/offices do you acquire data from?					
Responding FDOT Office	Offices Dataset is Acquired From	Dataset Acquired From	Person Contacted to Acquire Data	Data Request Procedure by the Offices, Data is Acquired From	Data Request Procedure Followed by Responding FDOT Office
Traffic Engineering and Operations	Motor Carrier Size and Weight	LPR info, USDOT camera info	This is an automated data feed	No	No
Freight Logistics and Passenger Operations	Central	Over 200 GIS layers	The consultants	No idea	No idea

Which FDOT office/offices do you acquire data from?					
Responding FDOT Office	Offices Dataset is Acquired From	Dataset Acquired From	Person Contacted to Acquire Data	Data Request Procedure by the Offices, Data is Acquired From	Data Request Procedure Followed by Responding FDOT Office
Safety	TranStat	Roadway Data (RCI) Volume Data (volumes, truck %, etc) Basemap	Tina Hatcher + Paul O'Rourke	No	Yes and No. Crash data is provided through multiple sources and applications. If an office or district needs a special analysis or can't pull the data themselves, they request it through a public website.
Seaport and Waterways	Seaport, Rail, Motor Carrier, FLP, ISD, Systems Planning, Policy Planning, Transtat, Bridges	Piers, FPC Mission Plan Annual Florida Ports Data, Waybill, Transearch (IHS), Bridge Data	Joel Worrell, Ed Hutchenson, Chris Edmonston, Ed Lee, Zack Teders, Mike Rubin (FPC)	Phone Call, In-person, e-mail	E-mail request, form completion for PIERs data.
Seaport and Waterways	ISD, FLP, Seaport, Rail, Motor Carrier, Transportation Statistics, Policy Planning, Systems Planning, Bridge Office	Freight Statistics, Rail Waybill data (Plan Results), Highway congestion and capacity, Truck counts, Commodity Data, PIERs Data, Import Export Data, IHS Global Insights Transearch Data, Domestic Freight Data, Traffic Counts Data, Bridge Allisions, Bascule Bridge schedules	Ed Hutchenson, Zack Teders, Joel Worrell, Ed Lee, Chris Edmonston	e-mail, phone call, in-person	Yes, data request and acquisition form for PIERs data requests.
Intermodal Systems Development	Transportation Statistics, Traffic Operation, Systems Planning	Truck counts, freight modeling results, crash data	FDOT Staff	No	No
Intermodal Systems Development	Office of Right of Way (D4), TranStat (D4), SIS (D4)	Surplus ROW, Truck Counts, SIS Network	D4 Offices		

Question 9 Results:

Please list the data resources you acquire and use from entities outside of FDOT.	
Responding FDOT office	Data Resources Acquired From Entities Outside of FDOT
Traffic Engineering and Operations	We also get LPR info and container number reads from the DACS interdiction station
Freight Logistics and Passenger Operations	Ask CO
Safety	Strava (running / cycling data)
Seaport and Waterways	FPC - Florida Ports Annual Statistics, CLIA Cruise Data, USACE - Waterborne Statistics, Waterborne Commerce, Bureau Economic Activity, NOAA Coastal Population, NOAA PORTS
Seaport and Waterways	PIERs, IHS Tran-search, AIS (USCG), Florida Ports Council (Annual FSTED Data, self-report FL Ports), CLIA Cruise Data (State to State Passenger Comparison), Bureau Economic Activity, Waterborne Commerce Statistics Center (USACE), NOAA (Coastal Population Data), NOAA (Navigational Information - NavCharts), Other miscellaneous web-based datasets.

Question 10 Results:

How do other offices provide you the freight and modal data?		
Responding FDOT office	Methods	
Traffic Engineering and Operations	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	
Freight Logistics and Passenger Operations	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	
	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	Email attachments
Safety	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	
Seaport and Waterways	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	Email attachments
Seaport and Waterways	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	Email attachments
Intermodal Systems Development	Online File Delivery Services like File Transfer Appliance, Dropbox, one drive	Email attachments
Intermodal Systems Development		Email attachments

Questions 11-19 were for respondents outside of FDOT. The survey was not circulated outside of FDOT Central Office but can be administered in the future to include other agencies.

Question 20 Results:

At what frequency do you need freight and modal data and information?	
Responding FDOT office	Frequency
Traffic Engineering and Operations	Daily
Maintenance	Never
Aviation and Spaceports	Daily
Freight Logistics and Passenger Operations	Daily
	Annually
Safety	Daily
Seaport and Waterways	Daily
Seaport and Waterways	Daily
Systems Planning	unsure
Systems Planning	Annually
Intermodal Systems Development	Monthly
Intermodal Systems Development	Weekly
Design	Never
Design	Never

Question 21 Results:

What planning, reporting, studies and analysis functions are you responsible for that require freight and modal data?	
Responding FDOT office	Planning, Reporting, Studies and Analysis Function
Traffic Engineering and Operations	The data that we get is fed into the container number database and then utilized by MCSAW, DACS and FHP CVE or possibly other law enforcement agencies if requested.
Aviation and Spaceports	Air Cargo Study, Air Service Study, Florida Aviation System Plan, Florida Statewide Aviation Economic Impact Study
Freight Logistics and Passenger Operations	I'm a freight coordinator
Safety	Crash analyses, HSIP Annual Report, SHSP Performance Measures to Executive Committee
Seaport and Waterways	Seaport System Plan, Waterways System Plan, Cruise Analysis, Executive Documents, Performance Metrics, Project reviews and updates
Seaport and Waterways	Performance Metrics, Executive decision making and policy documents, REM response data, Global Trade Volumes.
Systems Planning	SIS Planning.
Intermodal Systems Development	MultiModal Scoping checklist - utilize freight related data sets to visually analyze upcoming roadway projects for needed freight considerations (to be relayed to PM for consideration)
Design	None
Design	None

Question 22 Results:

Are there any goals and objectives of your business plan not currently supported through the required freight and modal data and information?	
Responding FDOT office	Goals and objectives of your business plan not currently supported through the required freight and modal data and information
Traffic Engineering and Operations	No
Aviation and Spaceports	No
Freight Logistics and Passenger Operations	No
Safety	Local road data, more roadway data for state roads and a comprehensive, agency-wide basemap.
Seaport and Waterways	Not currently, combining data sources for cross correlation would be beneficial
Seaport and Waterways	Not currently, only elements not currently supported is combination of data sources to correlate across modes and domestic vs. international trade.
Systems Planning	No
Design	No
Design	N/A

Question 23 Results:

What are specific gaps in "big data" encountered in the planning and reporting functions within your organization? Examples include insufficient server space, licensing, acquisition costs, data maintenance, public information, etc. Please be specific.	
Responding FDOT office	Gaps
Traffic Engineering and Operations	Funding is our biggest gap, funds to buy server space, system maintenance, etc.
Aviation and Spaceports	Acquisition costs of certain industry recognized data sources. For example, OAG data typically runs \$20,000 a year for a subscription, or even more depending on the modules utilized.
Freight Logistics and Passenger Operations	No idea
Safety	We need a more flexible way to stand up servers to host and analyze large (>1 million records) datasets. Analyzing using desktops is slow and frustrating.
Seaport and Waterways	Maintenance, staff, time resource allocations for developing existing data available.
Seaport and Waterways	Resource allocations, time and staff to understand, maintain and develop existing resources into usable outputs.
Systems Planning	Not knowing available sources and lack of metadata.
Design	None
Design	Data integration functionality and the ability to easily search across domains for the data needed.

Question 24 Results:

Please provide the contact information from whom to get data maintained by your office in future.	
Responding FDOT office	Contact Information
Traffic Engineering and Operations	Marie Tucker, 410-5619, marie.tucker@dot.state.fl.us
Aviation and Spaceports	Overall contact would be Aaron Smith, State Aviation Manager
Freight Logistics and Passenger Operations	Jeremy Dilmore
Safety	Shaun Davis or Ben Jacobs FDOT State Safety Office
Seaport and Waterways	Dan Fitz-Patrick (850) 414-4527 and Jimmy McDonald (850) 414-4509
Systems Planning	Paul Fang
Design	Quinton Tillman - 414-4894

Question 25 – Question 28 Results:

Data Collection – Question 26				
Responding FDOT Office	Name / Title of Data Collection	Purpose of the Data Collection	Methodology of the Data Collection	Update Schedule of the Data Collection
Safety	Non-Motorized Data Collection	Collect and aggregate non-motorized user counts across the state	Still in planning stages	Yearly? Still in planning stages.
Seaport and Waterways	Seaport System Plan 2015	Describe the history, current trends, and existing conditions of Seaport metrics including, tons, TEUs, passenger, etc...	Develop understanding of need, research available sources, download, analyses, report results	Annual
Intermodal Systems Development	Truck Parking Survey	To understand Truck Parking needs in D4	Survey	

Data Collection – Question 27				
Responding FDOT Office	Name / Title of Data Collection	Purpose of the Data Collection	Methodology of the Data Collection	Update Schedule of the Data Collection
Safety	Model Inventory of Roadway Elements (MIRE) Data Collection - Local Roads	Collect roadway inventory data on local roads in response to federal requirements for safety analyses.	Still in planning stages.	Still in planning stages.

Data Collection – Question 27				
Responding FDOT Office	Name / Title of Data Collection	Purpose of the Data Collection	Methodology of the Data Collection	Update Schedule of the Data Collection
Seaport and Waterways	Waterways System Plan 2015	Describe the history, current trends, and existing conditions of Seaport metrics including, tons, TEUs, passenger, etc...	Develop understanding of need, research available sources, download, analyses, report results	Annual
Intermodal Systems Development	Railroad Crossing Delay Analysis	To measure amount of roadway delay at key railroad crossings in D4	Video	

Data Collection – Question 28				
Responding FDOT Office	Name / Title of Data Collection	Purpose of the Data Collection	Methodology of the Data Collection	Update Schedule of the Data Collection
Safety				
Seaport and Waterways	Seaport Cruise Provisioning Study	Report of Cruise provisioning, commodities that are loaded on a cruise ship for consumption.	Some research, some interviews and data collection by survey	
Intermodal Systems Development				

Question 29 Results:

Where does your data currently reside? (Check all that apply)				
Responding FDOT office	Location where data resides			
Traffic Engineering and Operations	Server			
Maintenance	Server			
Aviation and Spaceports		Computer	Paper format	
Freight Logistics and Passenger Operations	Server			
Safety	Server	Computer		
Seaport and Waterways	Server	Computer		Web-based services, (i.e. PIERS)
Systems Planning	Server			
Intermodal Systems Development				
Intermodal Systems Development	Server			
Design	Server	Computer		