JOINT FLORIDA
Model Task Force & Transportation
Data and Analytics Workshop

FTO FORECASTING & TRENDS OFFICE

FDOT TDA TRANSPORTATION DATA & ANALYTICS

Welcome and Introduction

February 26, 2020

The Longest Journey Starts with a Single Agenda

Shen Huiwei

WELCOME

JOINT FLORIDA

Model Task Force & Transportation Data and Analytics Workshop

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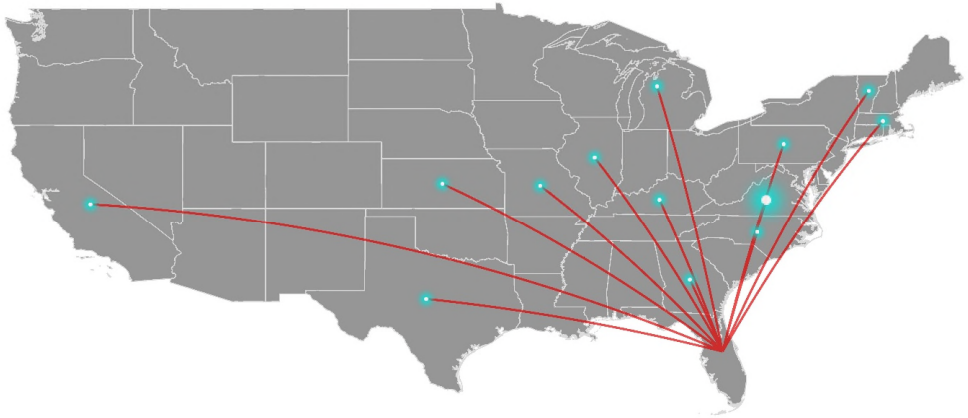
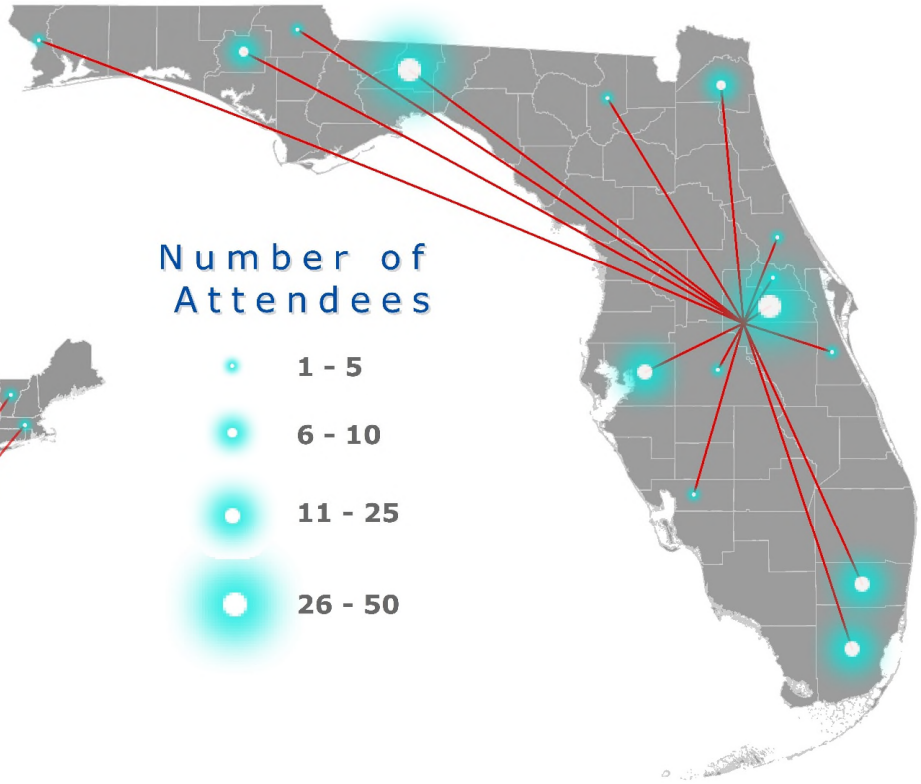
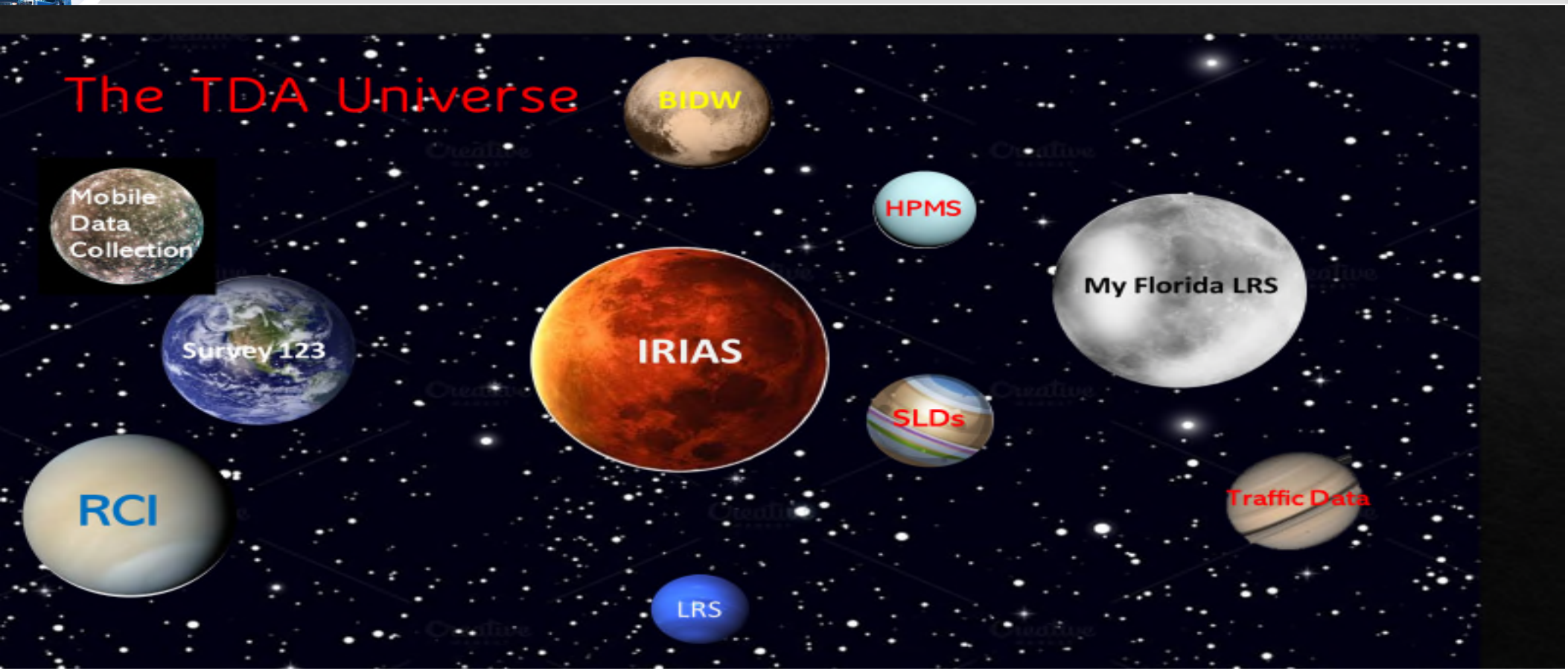
FDOT TDA TRANSPORTATION DATA & ANALYTICS



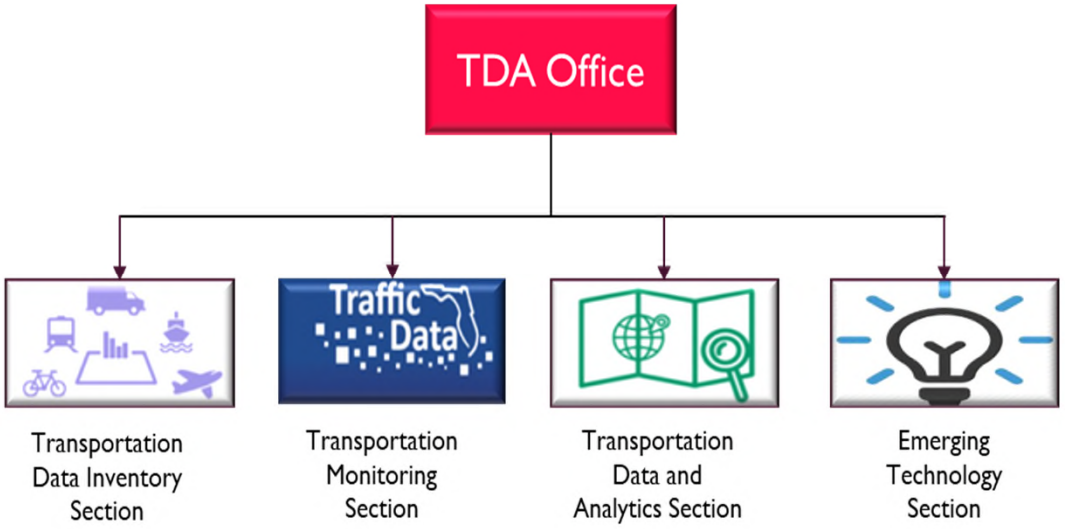


FDOT

THE TDA UNIVERSE



Transportation Data and Analytics Office Organizational Chart



- Created in 2015 from the Transportation Statistics Office
- Joined the Transportation Technology Office and CIM Office in 2016
- Transportation Modeling and Forecasting remained with Planning

Traffic Monitoring Section

-18,000 Portable Counts / 350 Permanent Sites

-Weigh in Motion (WIM) Auto Calibration

-Statewide Non-Motorized Traffic Monitoring Program

-Emergency Shoulder Use (ESU) Counts

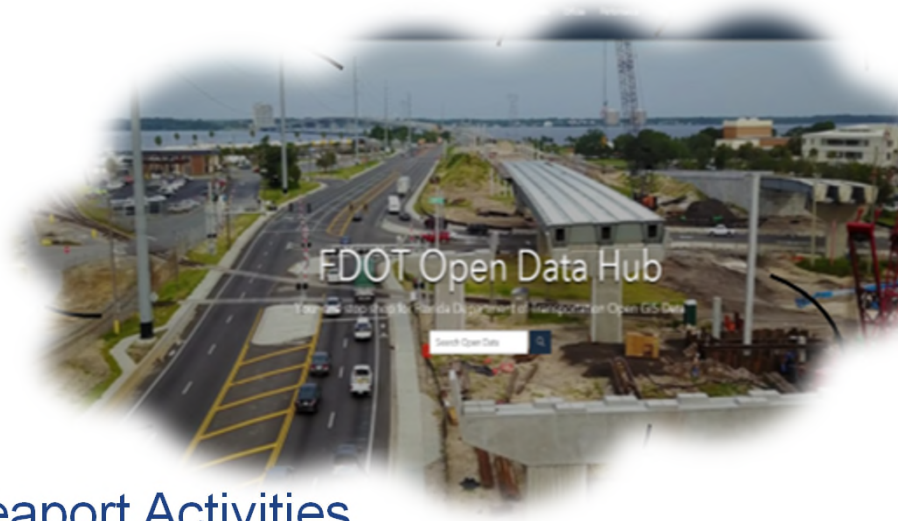
-Transformation to FDOT MCSAW Fiber Network

-Converting from TPASS to MS2

-Super WIM Sites

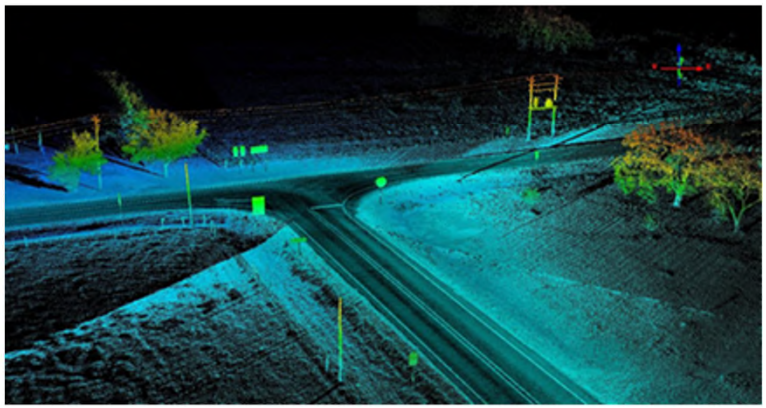
Transportation Data and Analytics Section

- Web Mapping Applications
- Linear Referencing System
- US Bike Route System
- Data Analysis
  - Post Hurricane Analysis and Mapping
  - Florida's Seaport Commodities Study
  - An Analysis of U.S./China Trade Tariff's on Seaport Activities
  - Port of Miami Traffic Analysis



Transportation Data Inventory Section

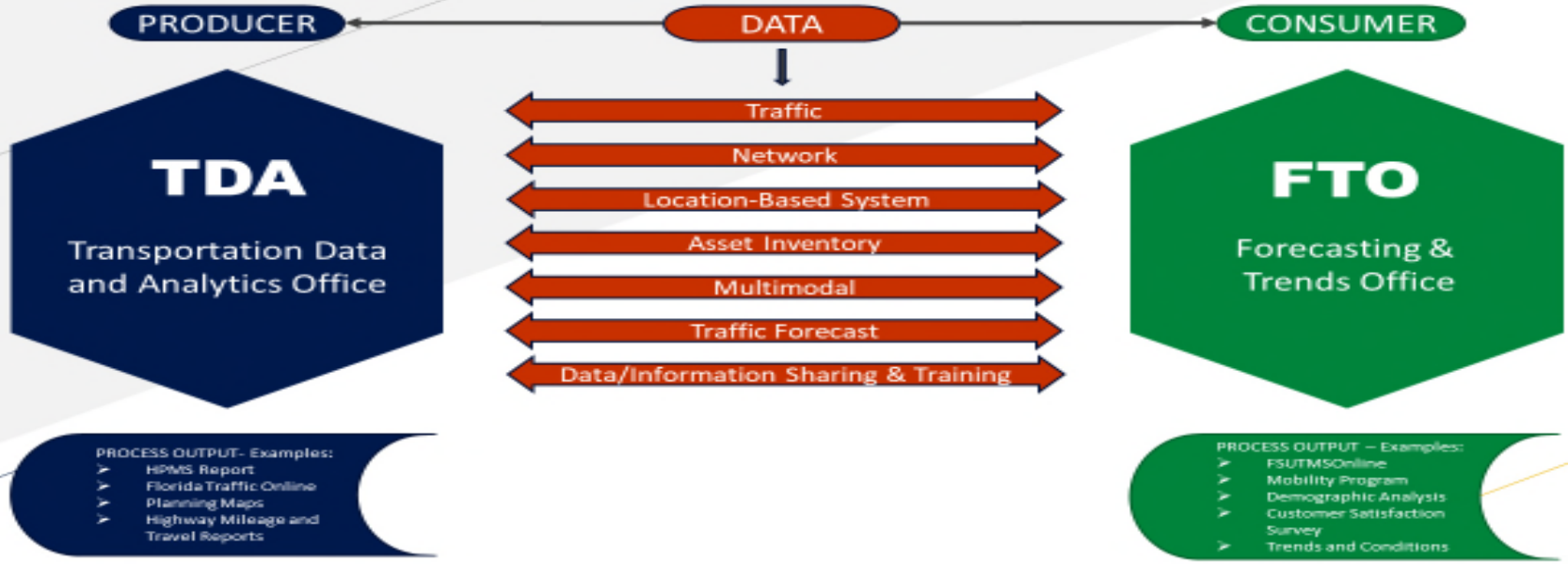
- Lidar/Video/Pavement Data Collection Pilot Project
- Integrated Roadway Asset Identification System (IRAIS)
- HPMS Data Support Activities
- Seaport Berth Utilization Study – Port Tampa Bay
- Statewide Analysis of Truck Parking
- DataLytics
- ARNOLD (All Roads Network of Linear Referenced Data)



Emerging Technology Section

- Advanced Freight Mobility Solutions (AFMS)
- Truck Taxonomy and Classification – Machine Learning
- Driver Assisted Truck Platooning (DATP)
- Predictive Analytics
- SR 70 AV Safety Study
- FAV Annual Summit

THE T.D.A./F.T.O. RELATIONSHIP



TDA – FTO

TDA – FTO DATA PRODUCTS/SERVICES

TDA

- DataLytics
- Florida Automated Vehicles
- Florida Federal Aid Systems (HPMS)
- Florida Official Intercity Highway Mileage
- Florida Traffic Monitoring Handbook
- Florida Traffic Online
- GIS Data (ArcGIS Online)
- Highway Data
- Highway Mileage Reports
- Highway Systems
- Multimodal Data Program
- Non-Motorized Traffic Monitoring Program
- Planning Maps
- Roadway Characteristic Inventory (RCI)
- Straight-line Diagrams
- Traffic Information

FTO

- Customer Satisfaction Survey
- Demographic Analysis
- Mobility Program
- FSUTMSOnline
- Trends and Conditions
- FDOT Source Book
- Research Coordination

Source TDA: https://www.fdot.gov/statistics/about.shtm

Source FTO: https://www.fdot.gov/planning/fto/programs.shtm

FUTURE DIRECTION

- What gaps and challenges are faced in data availability and usage to support modeling activities?
- How do new data sets shape or influence modeling activities?
- Specifically, what challenges are faced, in terms of data, to evaluate CV/AV technology-related scenarios in travel demand modeling?
- How can Transportation Data and Analytics (TDA) office help in providing new data sets and/or meeting new data needs?

FDOT

VITAL FEW

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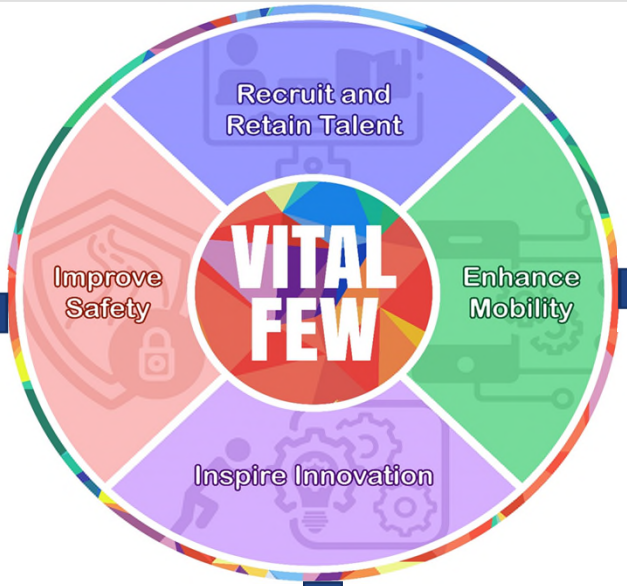
Recruit and Retain Talent

Improve Safety

Inspire Innovation

Enhance Mobility

VITAL FEW



FDOT

CLOSING

3 Things You Can Learn From a Dog About This Meeting

1.Live each moment. Dogs teach us not to worry about the past.

2.Turn fear into love. Dogs teach us that we can turn our fears into love.

3.Never hold a grudge. Dogs teach us that holding grudges just doesn't work.