



Where Do We Go From Here?

RIVER TO SEA TPO ANNUAL PLANNING RETREAT

Presenter: Dale W. Cody, PE, PTOE

February 5th, 2016

ITS Strategies

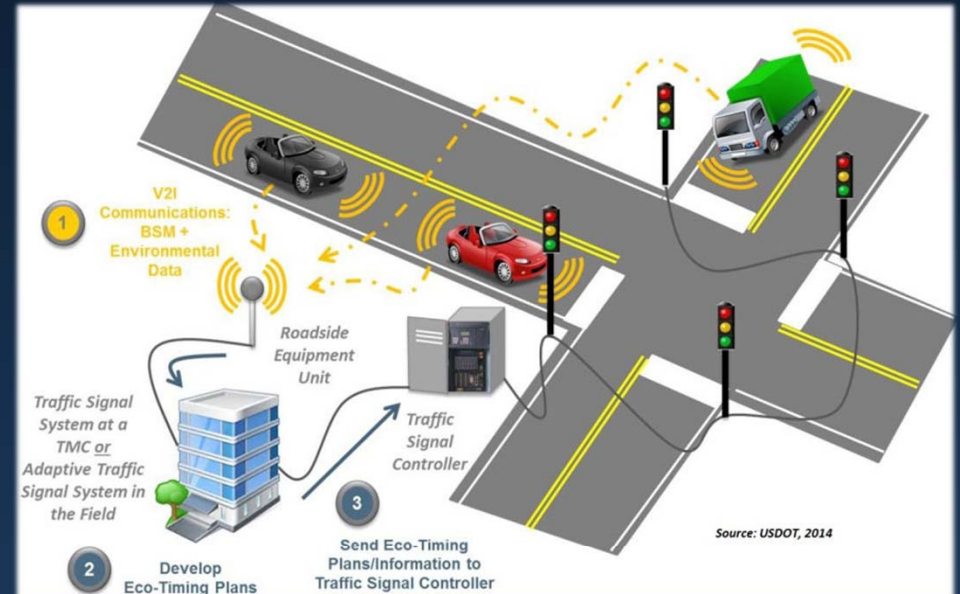
- Local Strategies

- Bike & Ped ITS Solutions
- Dynamic Junction Control
- Dynamic Merge Control
- Queue Warning
- Highway Rail Intersections
- Intersection Collision Avoidance
- Wrong Way Countermeasures



ITS Strategies

- Regional Strategies
 - Active Traffic Management/Traffic Control
 - Active Arterial Management (AAM)
 - Integrated Corridor Management (ICM)
 - Dynamic Routing
 - Incident Management
 - Transit Signal Priority (TSP)
 - Event Management



ITS Strategies

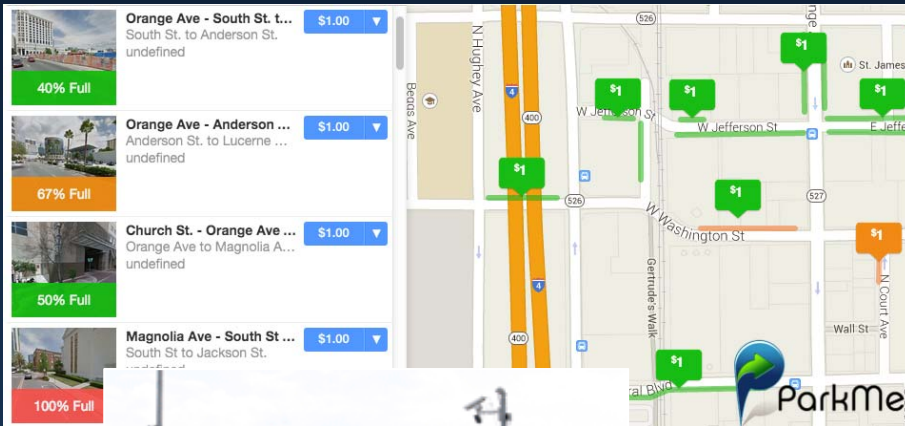
- Regional Strategies (Cont'd)
 - Traveler Information
 - Predictive Traveler Information
 - Travel Demand Management/Trip Information/Mode Choice
 - Dynamic Wayfinding
 - Public Transportation Management
 - Dynamic Transit Capacity Assignment
 - Personalized Public Transit
 - Electronic Transit Ticketing
 - Dynamic Ridesharing



ITS Strategies

Regional Strategies (Cont'd)

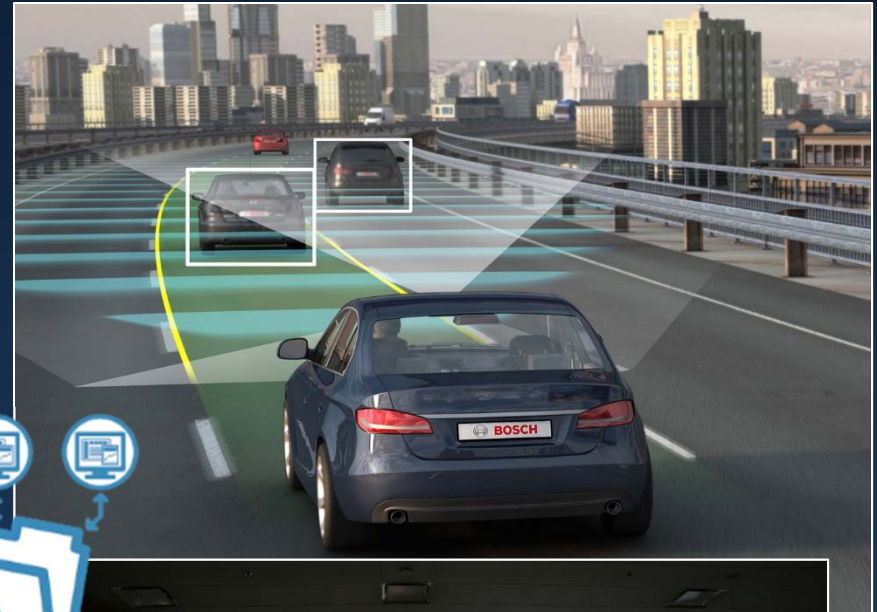
- Advanced Parking Management
Dynamic Parking Guidance and Reservation
 - Dynamic Overflow Transit Parking
- Freight/Commercial Vehicles
Freight Parking
 - Freight Parking
 - Automated Roadside Safety Inspection/Administration/Credentials
 - Hazmat Security and Incident Response



ITS Strategies

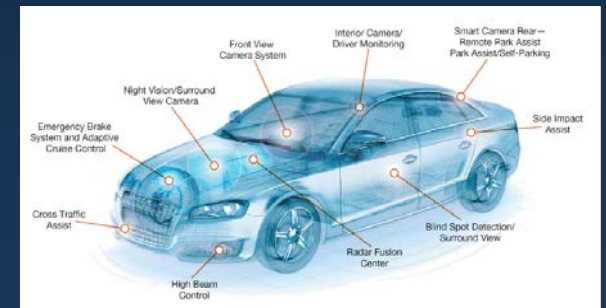
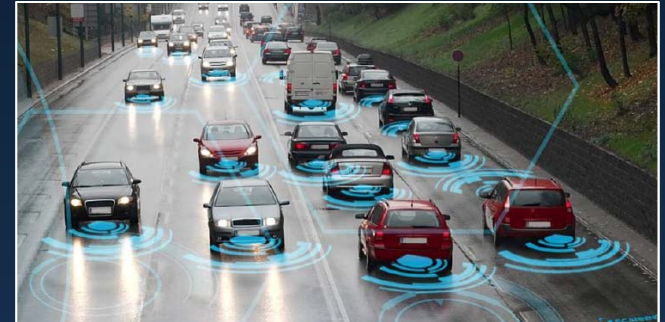
- D5 Regional Strategies (Cont'd)

- Hazardous Materials Security
- Public Travel Security
- Electronic Payment Services
- Emergency Management
 - Emergency Notification & Personal Security
 - Disaster Response and Evacuation
- Information Management
 - Archived Data
 - Big Data/Analytics
 - Performance Management/Measurement
- Asset Management
- Advanced Vehicle Safety Systems
- Connected/Autonomous Vehicles



ITS Strategies

- D5 Regional Strategies (Cont'd)
 - Connected/Autonomous Vehicles
 - The connected vehicle quickly identifies roadway hazards and alerts drivers.
 - The automate vehicle will steer and brake for you.
 - The autonomous vehicle does it all
 - Some technologies include:
 - Wireless communications
 - Vehicle sensors
 - Roadside Sensors
 - Global positioning system navigation
 - Tampa, FL test bed (upcoming)
 - Smart City – Orlando, FL



ITS Strategies

- D5 Regional Strategies (Cont'd)
 - Connected/Autonomous Vehicles



ITS Strategies

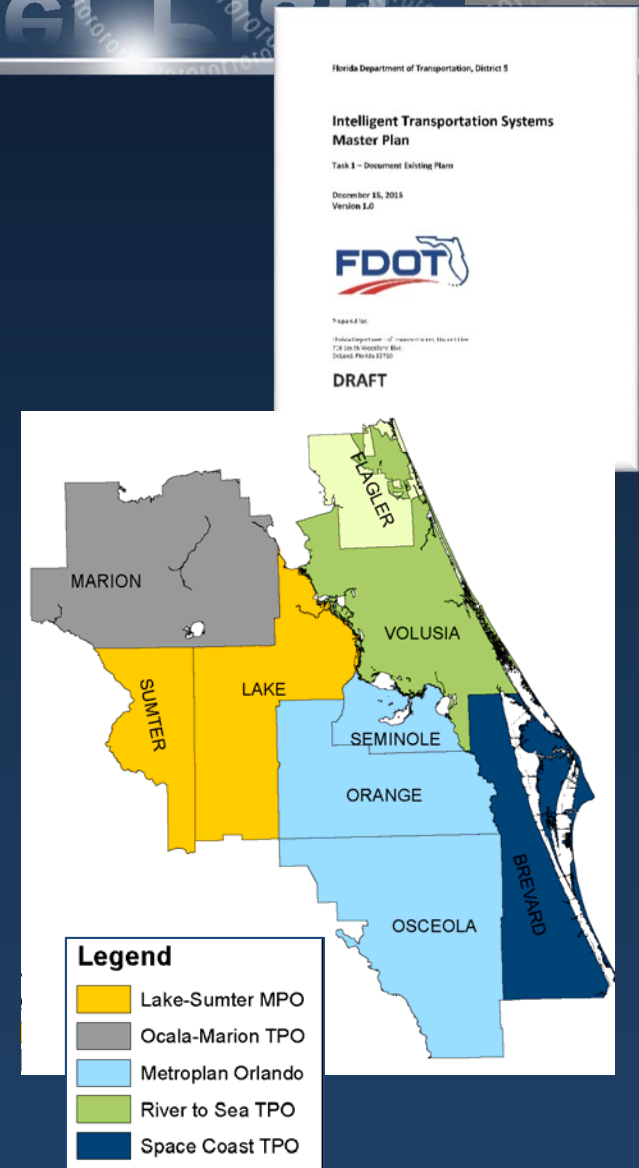
- D5 Regional Strategies (Cont'd)
 - Connected/Autonomous Vehicles

https://www.youtube.com/watch?v=3yCAZWdqX_Y



Regional ITS Master Plan

- D5 ITS Master Plan for Region
 - Purpose
 - Create an overarching ITS Master Plan for the Region
 - Create a consensus on what items need to be integrated between agencies
 - Determine what standards need to be met (security, maintenance, staffing, etc.)
 - Develop an overall assessment
 - What is in place? Goals for the future?
 - What are the road blocks and how do we overcome them?
 - High level goals the region should be working towards
 - Types of investment that could work toward these goals



ITS Master Plan

- D5 ITS Master Plan for Region
 - Stakeholder Involvement
 - Incorporate all stakeholders – MPO/TPO, Cities, Counties, CFX, SunRail, Airport, Seaport, Fire/Rescue, Transit
 - Discuss Roles and Responsibilities (FDOT/Maintaining Agency)
 - Cooperative Approach through Communication



[illegible]

- Central Florida Regional ITS Architecture
 - Consistent with State and National ITS Architecture
 - Roadmap for transportation systems integration in Central Florida over the next 20 years
 - Cooperative effort by the region's transportation agencies
 - Shared vision of how each agencies' systems will work together in the future

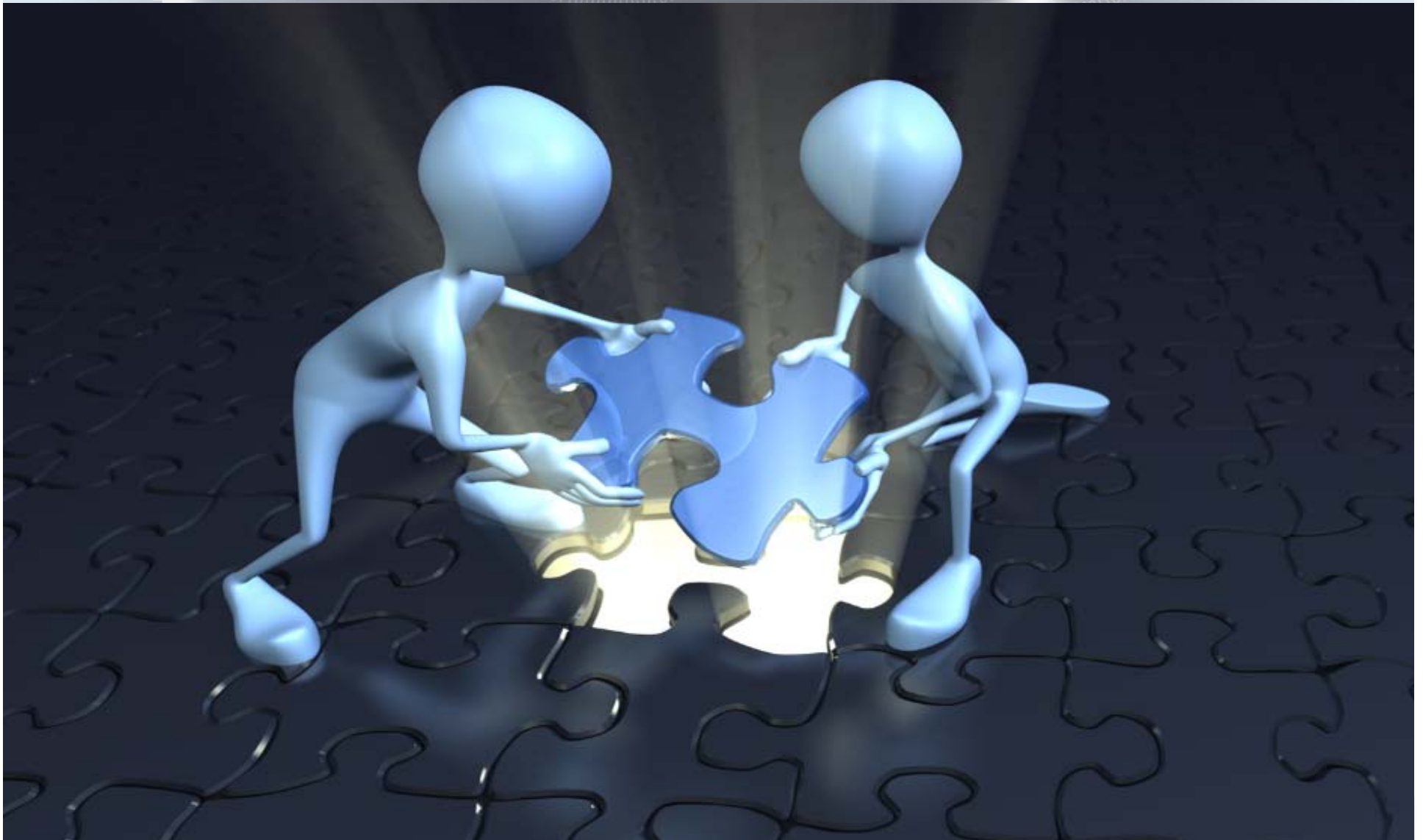


Plan of Action...

- Coordinate Regionally
- Consistent with Central Florida as a Whole
- Develop ITS Master Plan
 - To improve mobility/mode choice
 - Include all stakeholders
 - Identify challenges
 - Identify funding source options
 - Gain stakeholder buy-in
 - Ensure consistency with Regional Architecture
- Considerations
 - What are the roles and responsibilities of each agency/stakeholder?
 - Interaction and demarcation points of each agency?



Questions/Comments?



Audience Participation

1. Do you feel that the majority of these strategies promote improvements to congestion on a day to day basis for travelers?
 - a. Yes, 100%
 - b. Agree mostly
 - c. No, not really

2. Do you feel that the majority of these strategies promote improvements to congestion during special events/evacuations for travelers?
 - a. Yes, 100%
 - b. Agree mostly
 - c. No, not really

3. Do you feel that the majority of these strategies promote enhanced safety for travelers?
 - a. Yes, 100%
 - b. Agree mostly
 - c. No, not really
 - d. I don't care about safety.

Audience Participation

4. Have you ever utilized any of the ITS Strategy tools here in Central Florida?
 - a. Yes, several times
 - b. Yes, once or twice
 - c. No, but I have seen them available
 - d. No, I have not come across any to date
5. Connected Vehicles technology has the ability to improve:
 - a. Congestion
 - b. Safety
 - c. Driver Experience
 - d. All of the above
6. Do you see a need or perceived benefit in creating an ITS Master Plan for the R2STPO?
 - a. Yes, 100%
 - b. Yes, but I anticipate many issues such as funding, implementation, etc.
 - c. No, not really