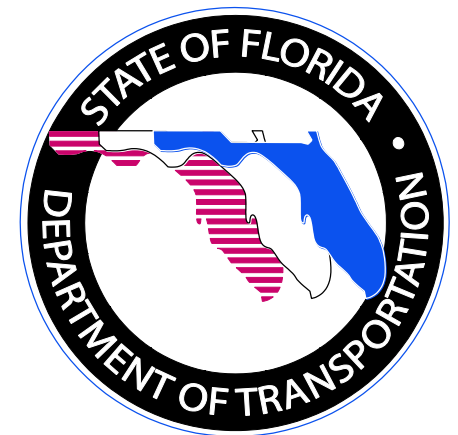
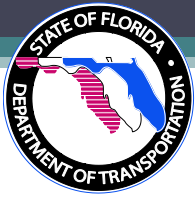


# Transpo 2010 – ITS: Now More Than Ever

Brian Blanchard, P.E.  
Chief Engineer  
Florida Department of Transportation

December 2010

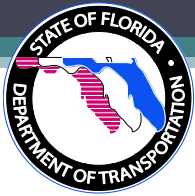




# Florida's Interstate System

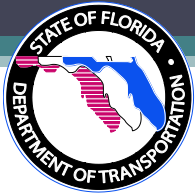
- The interstate system was being built in 1960 –we keep adding to it today
- Highway safety in Florida is still a major issue
  - 1968 – 2,109 fatalities
  - 2009 – 2,563 fatalities
- However, Florida traffic fatalities fell 14% to a record low in 2009 (2983 in 2008)





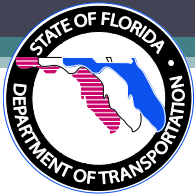
# Population Trends

- 80 million- tourists each year
- 25.2 million — total estimated state population in 2035
  - Source: Florida Bureau of Economic and Business Research
- 6 million — population over retirement age in 2035
  - Source: Florida Division of Elder Affairs



# Environmental Stewardship

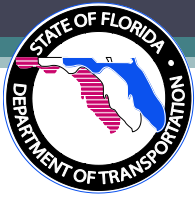
- 8 billion gallons — estimated water demand, per day in 2060, 1 billion greater than today
  - Source: Florida Fish and Wildlife Conservation Commission
- 75 million metric tons — growth in greenhouse gas emissions from transportation by 2025
  - Source: Florida Department of Environmental Protection



# ITS — NOW

- Congestion Management
  - High Occupancy Toll Lanes
  - Ramp Signals
  - Variable Speed Limit Signs
  - Reversible Express Lanes
  - IntelliDrive

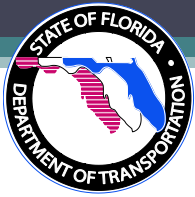




# ITS — NOW

- Traffic Incident Management
  - Traffic Incident Management Teams
  - Road Ranger Service Patrols
  - Rapid Incident Scene Clearance

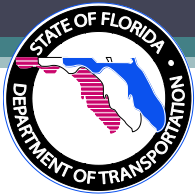




# ITS — NOW

- Transit
  - Bus Rapid Transit
  - High Speed Rail – Early Works

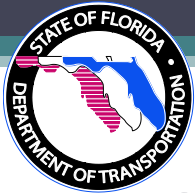




# ITS — MORE

- Open Road Tolling
  - Reduces Congestion
  - Lowers Vehicle Emissions
  - Reduces Fuel Consumption
- High Occupancy Toll Lanes
  - Reduced Vehicle Hours Traveled
  - Enhanced Corridor Mobility
  - Reduced Greenhouse Gases

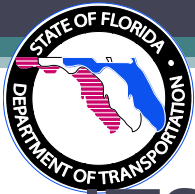




# ITS- EVER

## High Speed Rail

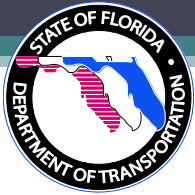
- Work on the country's first true high speed rail line between Tampa and Orlando will happen in two phases
  - Early Works Projects starting in 2011 - designed to clear the I-4 median for later HSR construction; discover unforeseen conditions before PPP project begins; and create jobs in the near future
  - Full system construction scheduled to start in 2012 – Design, build, operate, and maintain



# ITS- EVER

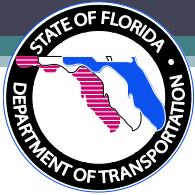
## High Speed Rail

- Peak employment period will be between the fall of 2012 and 2014 when close to 10,000 workers are expected to be directly employed in building the system
- Following construction, we estimate the system will employ approximately 600 people once operation starts and another 500 indirectly on an on-going basis.



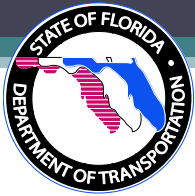
# IntelliDrive

- Vehicles Talking to Vehicles (V2V)
- Vehicles Talking to Infrastructure (V2I)
- Intersection Collision Avoidance
- ITS World Congress – October 2011



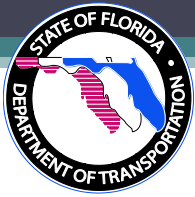
# 2060 Florida Transportation Plan

- Blueprint for the future
- New and improved ways of planning and investment decision-making
- Reliable revenue sources to maintain and expand our transportation system.



# What Can We Expect in the Next 50 Years

- **Connectivity**
  - A fully multimodal system to connect both urban and rural areas – supporting future economic and quality of life goals
- **Transit**
  - Although highways will remain the backbone of our system, we'll have a greater dependence on public transportation – including a statewide passenger rail network and transit systems in all major cities



# What Can We Expect...

- **Trade**
  - Florida will become a global hub for commerce and investment thanks to a statewide system of trade gateways, logistic centers, and transportation corridors
- **Travel**
  - An air transportation system will allow us to remain a world leader in moving people and goods between Florida and other states and nations
- **Safety**
  - A new generation of vehicles, fuels, and technologies will produce a transportation system with fewer crashes, less delay, and fewer emissions.

# Questions?

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(850) 414-5240

