


VOLUSIA COUNTY
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION
JON CHENEY, Traffic Engineer



Traffic Engineering Division



Our mission is to enhance the quality of life for residents and visitors by providing essential services for the safe and efficient movement of both vehicle and pedestrian traffic throughout Volusia County.

So how do we accomplish our mission??

Anywhere, Volusia County, Florida, USA



Challenges

Special Events

Disasters & Evacuations




Photos provide by Daytona News-Journal

Traffic Engineering Division


Division Total

Total Budget
\$3,421,688

Personnel
21 FTE
0 PT
0 Seasonal



Jon Cheney
Traffic Engineering Director




Administration and Customer Service

Transportation Planning


Development Review

Traffic Studies


Traffic Signals



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2015 Urban Mobility Scorecard

Congestion Cost	Annual hrs of Delay	Annual
Urban Area	per Auto Commuter	\$ per Auto Commuter
Miami (Very Large Area)	52 hrs	\$1,169
Orlando (Large Area)	46 hrs	\$1,044
Tampa-St. Petersburg	41 hrs	\$ 907
Jacksonville (Large Area)	38 hrs	\$ 842
Daytona Beach-Port Orange	23 hrs	\$ 524
Daytona Deland	13 hrs	\$ 296

Source: 2014 Transportation Institute-Trip-8/2015

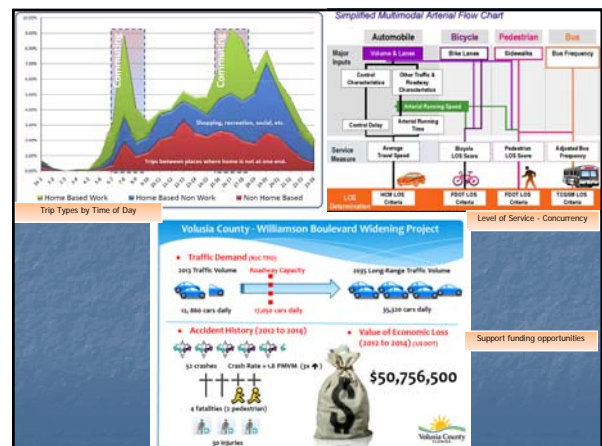
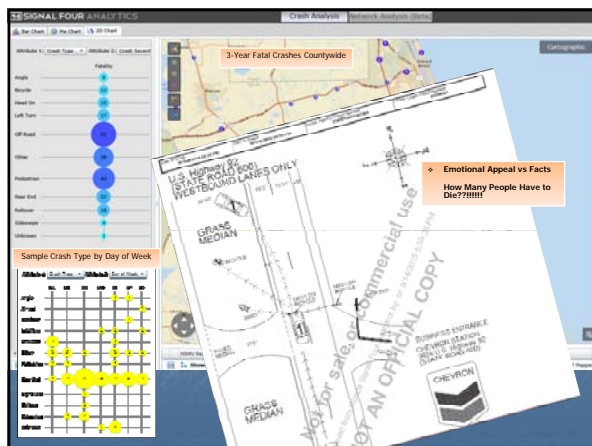
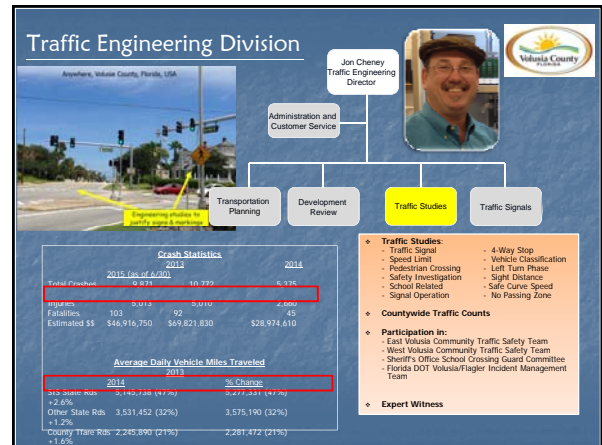
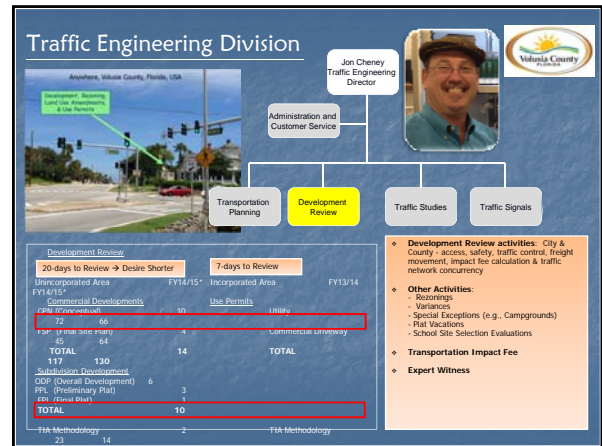
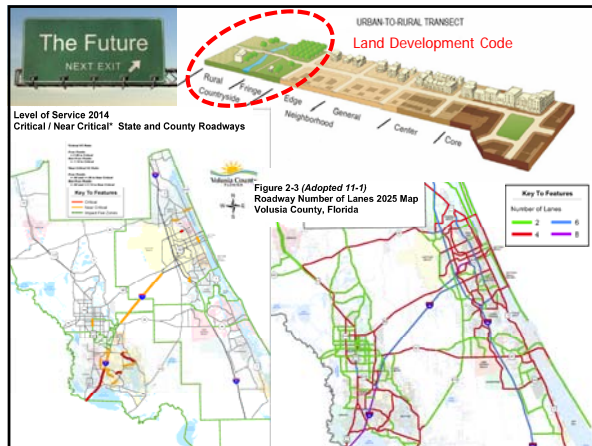
Update Comprehensive Plan Chapter 2 Element - Road

- Thoroughfares
- Public Transportation
- Voltran
- Ports & Aviation
- Port of Leon Port Authority
- Daytona Beach International Airport
- Rail
- Bicycle & Pedestrian
- Scenic Corridor/Highways

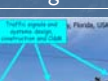
Coordination with City Comprehensive Plans

- Volusia TPO activities:
 - Technical Coordinating Committee
 - Citizens Advisory Committee
 - Ped/Bicycle Committee
 - TIP Subcommittee
 - 2040 Long Range Transp. Plan
 - Corridor Subcommittees: US-1, US 17/92, SR/CR A1A



Expert Witness



Traffic Engineering Division



Florida, USA


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Traffic Signals



Traffic Devices	
Signals	329
School Flashers	146
Flashers	63

Dismantle	
Florida DOT	218
County	246
Cities	109

Consolidated Services

- ♦ Provide 24/7 Signal Maintenance to Florida DOT & all cities in the county, except Daytona Beach
- ♦ 188 Traffic Signals in countywide computerized signal system
- ♦ 33 local Closed Circuit TV's (CCTV's) for traffic monitoring of day -to-day operations, Evacuation monitoring, & special event management
- ♦ Access to over 200 Central Florida CCTV's thru ITS Consortium
- ♦ Nearly 1,950 Signal Work Orders
- ♦ Over 180 After Hour Signal Call-Outs
- ♦ Expert Witness




The collage displays various traffic management software interfaces. The top left shows a list of signalized intersections with their locations and status. The top middle shows a street view of an intersection with signal status indicators. The top right shows a traffic light cycle diagram. The middle left shows a bar chart of traffic volume. The middle right shows a map of Volusia County with a highlighted route. The bottom left shows a map of a highway with a camera view inset. The bottom right shows a map of a highway with a camera view inset and a legend for traffic status.



Traffic Engineering Division

Current Events, Issues, and Trends

- **TRANSPORTATION PLANNING:**
 - Update to 10 Year TPO Long Range Transportation Plan & new Federal Transportation Bill (need to reauthorize MAP-21)
 - 5 of 7 Council members on R2CPTPO Board
 - Comprehensive Plan Amendments & Updates (additions/deletions to Thoroughfare System)
- **DEVELOPMENT REVIEW:**
 - Update Land Development Code (better accommodate suburban & urban development)
 - Growth Management Legislation and Economic Development
 - Increase in non-residential development
- **TRAFFIC STUDIES:**
 - Increasing Complaints about Speeding
- **TRAFFIC SIGNALS:**
 - Cost Saving & Greenhouse Gas Reduction Programs:
 - Signal power – County LED's replacement complete
 - City LED replacement underway
 - Future Workload:
 - Adaptive Signal Control (FDOT system along US 17/92, DeLand with future extension to DeBary)
 - Emergency Preemption System (coming to NSB, Deltona and Orange City)
 - Transit Priority System (VOTRANS customer delivery to Sunrail station on-time
 - Update Traffic Controllers & Cabinets (system & isolated)
 - Signal Retiming (system & isolated) for less delay



135 watts vs 10 watts

