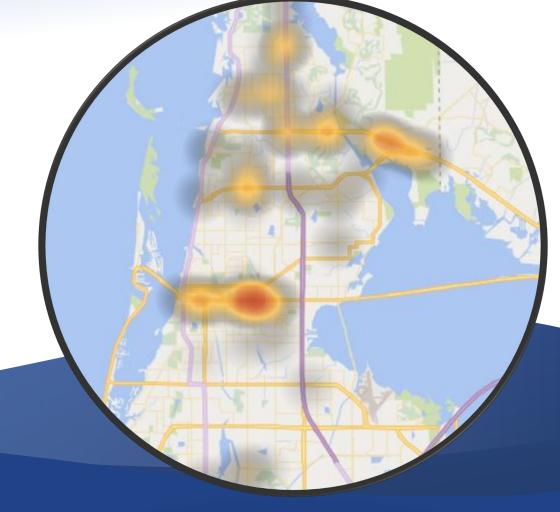
ATMS Program Update



Pinellas County Public Works

Kelli Hammer Levy, Director

Tom Washburn, Transportation Division Director



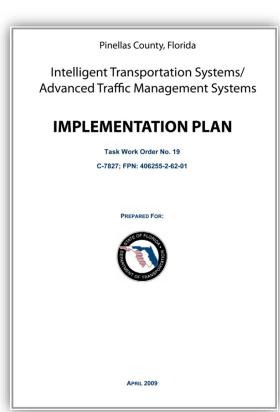
ATMS Program - History



Initiated in 2004

Program Strategy

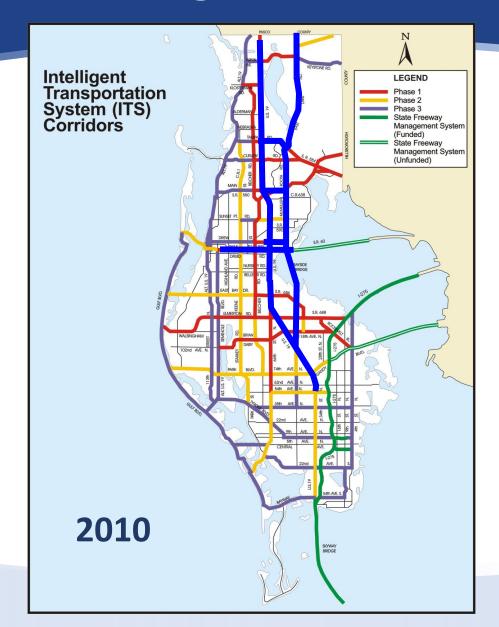
- Focus on Arterials and Collectors
- Fiber Optic Communication Backbone
 - CCTV Cameras: Complete video coverage of corridors
 - DMS Signs: Located strategically for evacuation and travel-time information
- Traffic Control Center: Includes workstations for FDOT, St Pete, and Clearwater
- Master Plan Update: Recently Completed

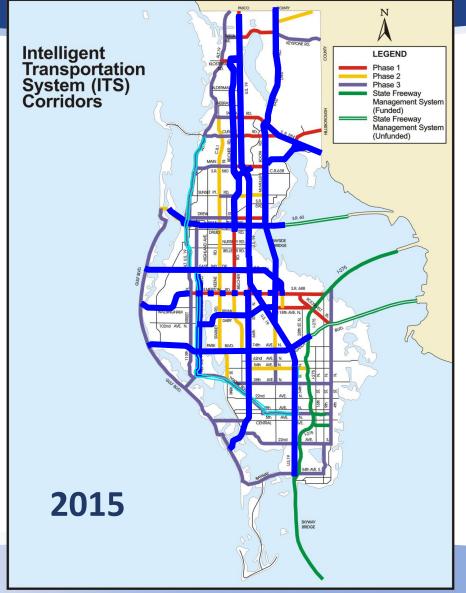




ATMS Program - History





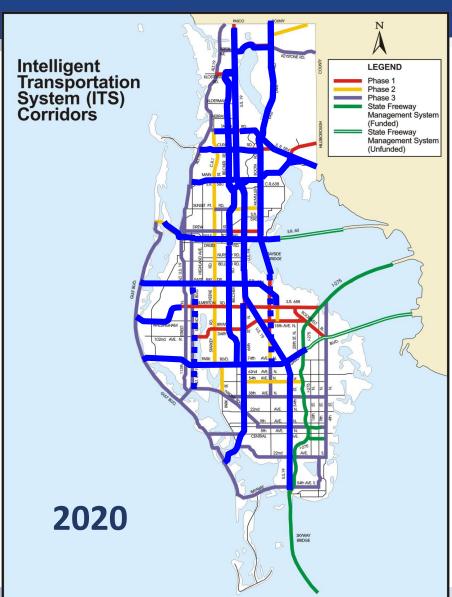


ATMS Program - History



Funding

- Dedicated Funding: Ninth Cent Fuel Tax
 - ~4M Annually
- Funds Design, Construction, Operations and Maintenance
- Grant Revenue >\$39M



ATMS Program – The System Today



- 400 Miles of Fiber Optic Cable
- 228 CCTV Cameras
- 62 DMS Signs
- 102 Bluetooth Travel Time Sensors
- 6 Intersection Video Analytic Devices
- Traffic Management Center



What Does Success Look Like?



Outcomes

- Optimized Traffic Flow
 - Adaptive and Responsive Signal Timings
- Reliable Communications
 - Redundant
 - County Facility Connections
- Timely Equipment Status Alerts
- Faster response to congestion and crashes
- Identification of potential crashes, near misses, wrong way driving

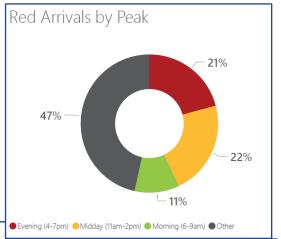
Limitations

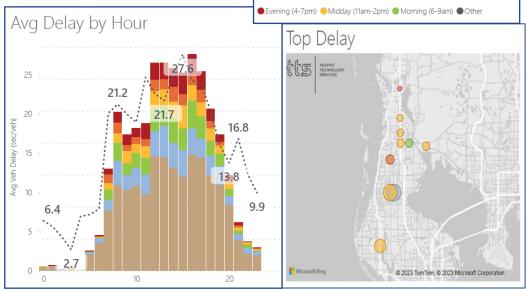
- Roadway Capacity
- Seasonal Impacts e.g.,
 Spring Break, Spring
 Training
- Non-recurring Congestion
 - Crashes
 - Emergency Pre-Emption
 - Construction

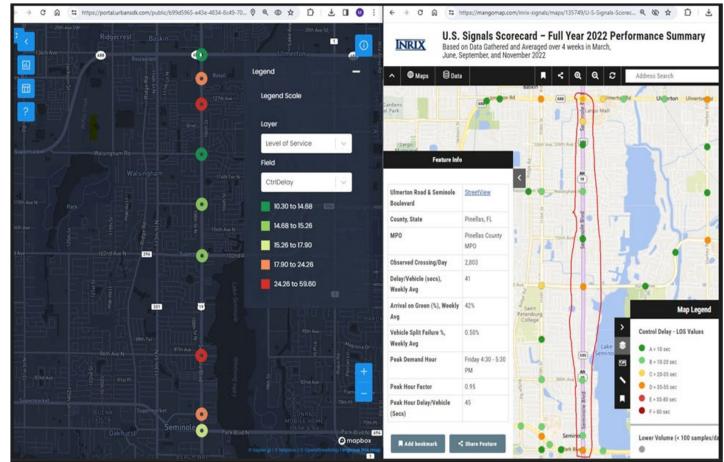
How will we Know it is Working?



Automated
Traffic
Signal
Performance
Measures
(ATSPMs)







ATMS Program – The Next 3 Years



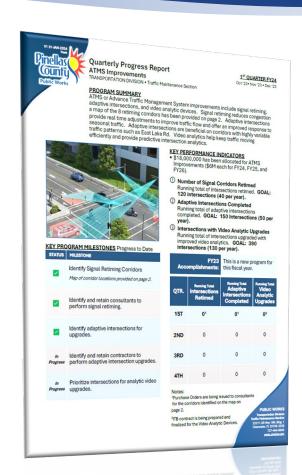
Additional Allocation: \$18M

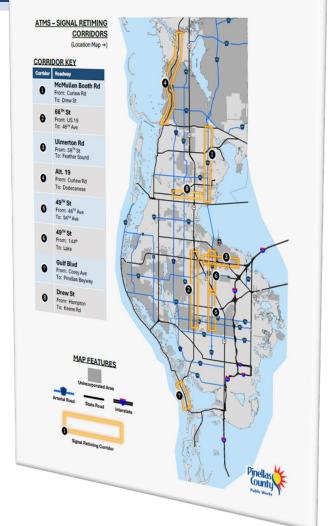
- Corridor Retiming
 - 250 Signals
 - FY 24 Goal 75 Signals / 8 Corridors
- Video Analytics
 - 390 Signals
 - FY 24 Goal 130 Signals
- Quarterly Progress Updates

Projects

- GIS Fiber Mapping: BTS and PW ARPA
- Emergency Vehicle Pre-emption Upgrade w/Emergency Services
- SR60 Upgrade
- ATCMTD Smart Cities
- ATMS Projects: SR 580, SR 586, Alderman Rd, & 113th St

Ninth Cent Reauthorization: FY26







Construction Projects

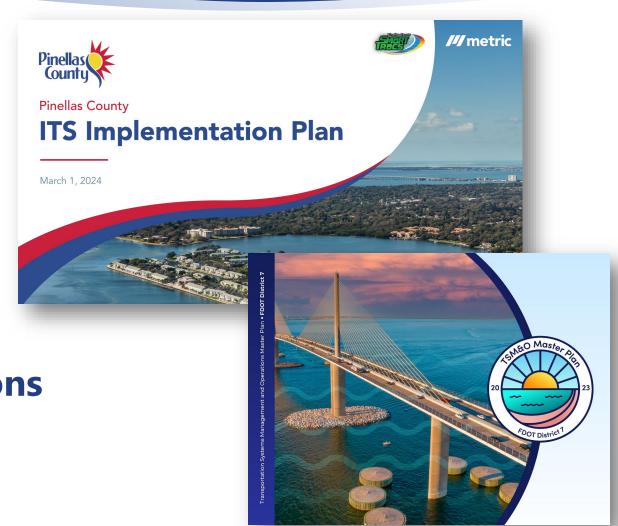
Pace Slows

Focus Shifts:

- Communication Redundancy
- Replacements & Upgrades

Operations and Maintenance

Connected Vehicle (CV) Applications

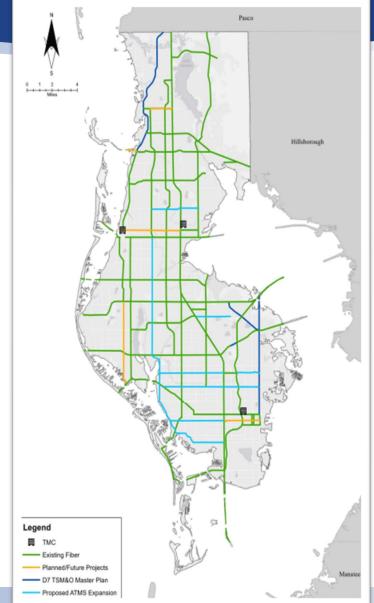


Pinellas County

Planned Construction Projects

Deployment	From (West/South)	To (East/North)	Construction Cost *
CR-1 Phase I	SR-688 (Ulmerton Rd)	SR-60 (Court St)	\$3,562,908
38th Ave N Phase I	49 th St	US-92 (4 th St N)	\$2,454,208
CR-1 Phase III	Country Club Rd	Park Blvd	\$2,956,641
CR-1 Phase II	Park Blvd	SR-688 (Ulmerton Rd)	\$3,349,597
Sunset Point Rd	CR-1 (N Keene Rd)	McMullen Booth Rd	\$2,219,771
118th Ave N	US-19	28 th St N	\$2,257,637
CR-1 Phase IV	49 th St S	Country Club Rd	\$2,638,364
Central Ave	Park St S	US-19	\$2,426,479
38th Ave N Phase II	Alt US-19 (Tyrone Blvd)	49 th St N	\$1,774,634
54th Ave N Phase I	58 th St N	US-19	\$1,166,786
54th Ave N Phase II	CR-1 (Park St N)	58 th St N	\$1,505,934
54th Ave N East	I-275 NB Off-Ramp	US-92 (4 th St N)	\$1,278,208
22nd Ave	49 th St	US-19 (24 th St N)	\$670,747
Total	-	-	\$28,261,914

^{*} Estimated based on projected inflationary factors



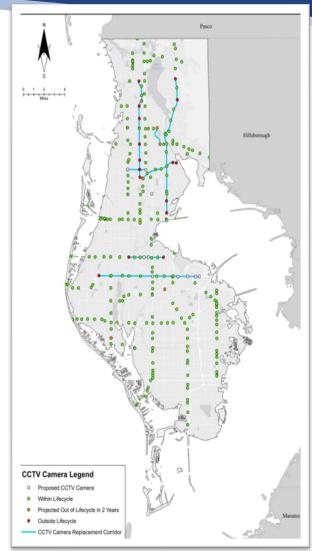


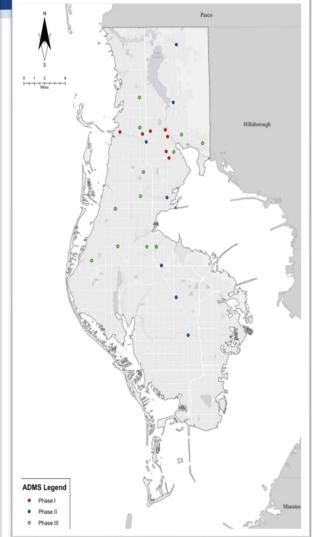
COTTY Replacements/Upgrades

- 75-100 Units Beyond Lifecycle in Next 10 Years
- Estimated Cost: \$800K to \$1.5M (FY24 Dollars); \$100K to \$150K Annually Beginning in FY25

DMS Replacements/Upgrades

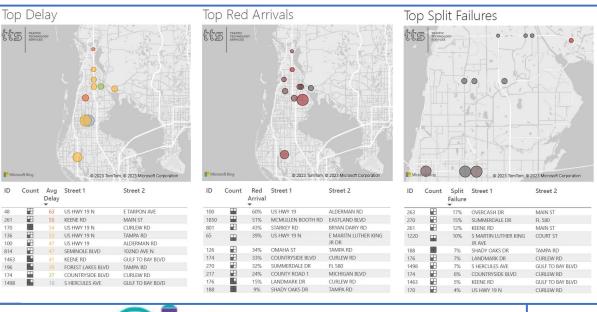
- 29 Signs, 3 Phases
- Estimated Cost: \$3M to \$4M (FY24 Dollars); \$300K Annually Beginning in FY25







Connected Vehicle (CV) Applications



Benefits

- Real-Time Traffic Information
- Safety and Mobility
- Regional Coordination



Micro origin / destination matrix

> Virtual Detection Lines

Pedestrian counter

Road user classification

Pedestrian detection and classification



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