

Doing Things!

Public Works, Transportation



Points to Cover

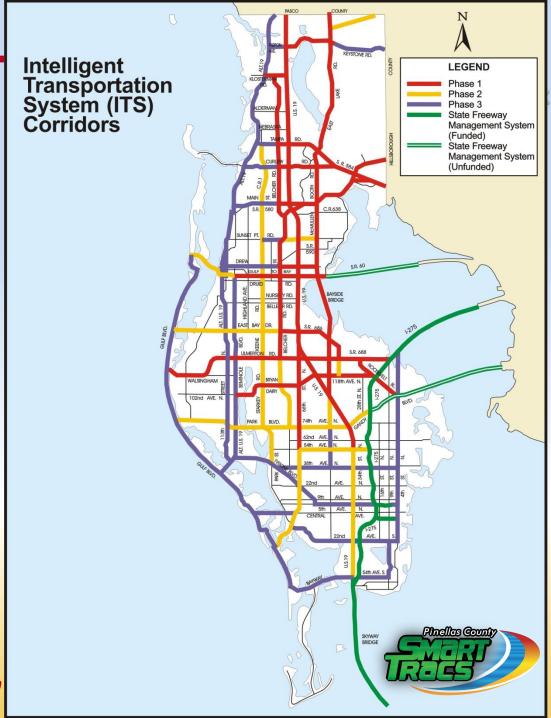
Current status of ITS / ATMS construction projects

Benefits of the new signal timing

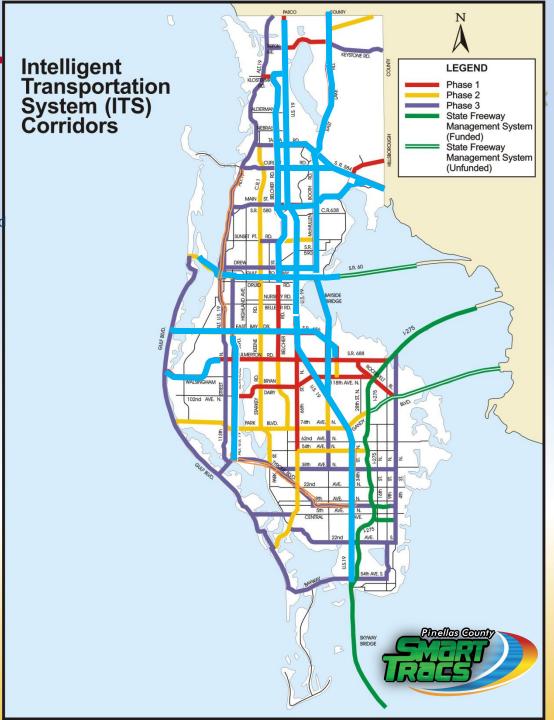


MPO ApprovedITS Planning Map

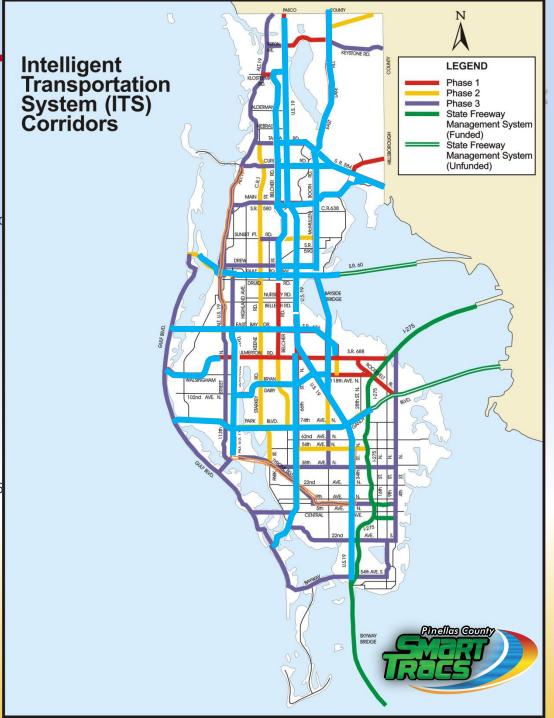
Circa 2005



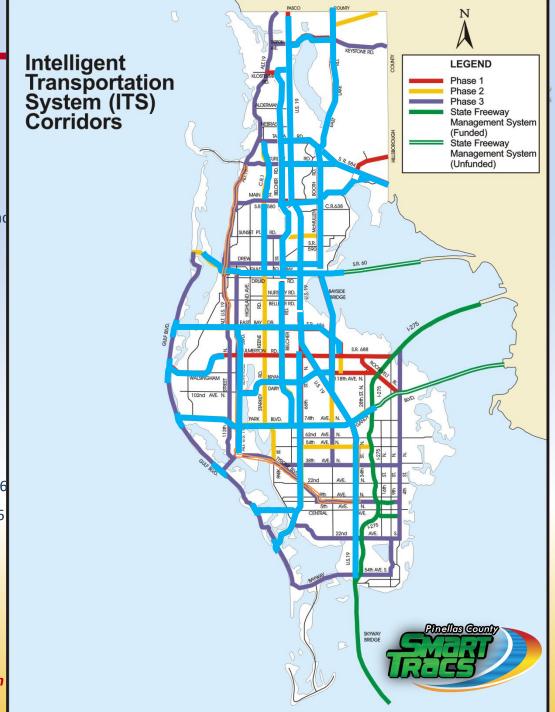
- •US 19 from Pasco to Haines-Bayshore COMPLETE
- •SR 60 from Damascus to Hillcrest COMPLETE
- •US 19 from Haines Bayshore to 46th Avenue COMPLETE
- •49th Street from Bayside Bridge to US 19 COMPLETE
- •Belcher Road from Klosterman to Druid COMPLETE
- •SR 60 from Hillcrest to Island Way COMPLETE
- •SR 580/586 from Race Track Rd to Alt US 19, Tampa Road from SR 580 to Keene Rd COMPLETE
- North Fiber Trunk Line COMPLETE
- •SR 686 from Roosevelt to Gulf Blvd. -COMPLETE
- •South Fiber Trunk Line / Seminole Blvd. ATMS COMPLETE
- •US 19 from 46th Avenue N to 54th Ave S COMPLETE
- •Ulmerton from Hamlin to Seminole COMPLETE



- •US 19 from Pasco to Haines-Bayshore COMPLETE
- •SR 60 from Damascus to Hillcrest COMPLETE
- •US 19 from Haines Bayshore to 46th Avenue COMPLETE
- •49th Street from Bayside Bridge to US 19 COMPLETE
- •Belcher Road from Klosterman to Druid COMPLETE
- •SR 60 from Hillcrest to Island Way COMPLETE
- SR 580/586 from Race Track Rd to Alt US 19, Tampa Road from SR 580 to Keene Rd – COMPLETE
- North Fiber Trunk Line COMPLETE
- •SR 686 from Roosevelt to Gulf Blvd. -COMPLETE
- •South Fiber Trunk Line / Seminole Blvd. ATMS COMPLETE
- •US 19 from 46th Avenue N to 54th Ave S COMPLETE
- •Ulmerton from Hamlin to Seminole COMPLETE
- Park Blvd from I-275 to Gulf Blvd. CONSTR 2016
- •66th Street from US 19 to Gulf Blvd. CONSTR 2016
- Bryan Dairy from Seminole to 49th Street CONSTR 2016

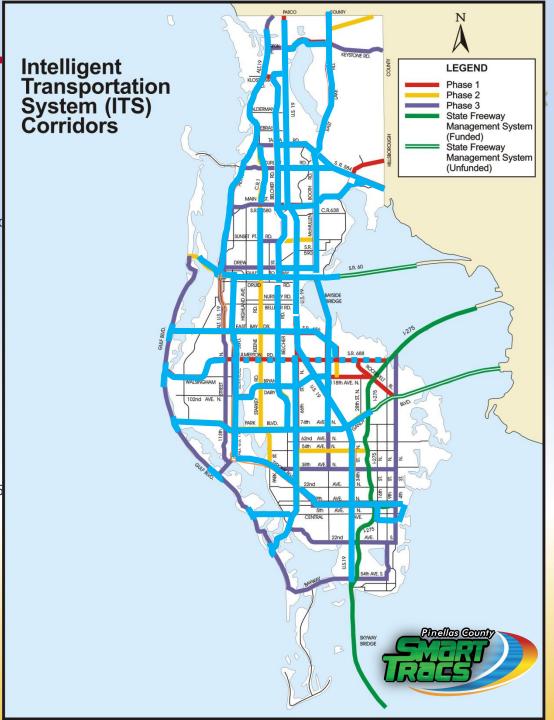


- •US 19 from Pasco to Haines-Bayshore COMPLETE
- •SR 60 from Damascus to Hillcrest COMPLETE
- •US 19 from Haines Bayshore to 46th Avenue COMPLETE
- •49th Street from Bayside Bridge to US 19 COMPLETE
- •Belcher Road from Klosterman to Druid COMPLETE
- •SR 60 from Hillcrest to Island Way COMPLETE
- SR 580/586 from Race Track Rd to Alt US 19, Tampa Road from SR 580 to Keene Rd – COMPLETE
- North Fiber Trunk Line COMPLETE
- •SR 686 from Roosevelt to Gulf Blvd. -COMPLETE
- •South Fiber Trunk Line / Seminole Blvd. ATMS COMPLETE
- •US 19 from 46th Avenue N to 54th Ave S COMPLETE
- •Ulmerton from Hamlin to Seminole COMPLETE
- Park Blvd from I-275 to Gulf Blvd. CONSTR 2016
- •66th Street from US 19 to Gulf Blvd. CONSTR 2016
- Bryan Dairy from Seminole to 49th Street CONSTR 2016
- •Belcher Rd from Druid to Park Blvd. CONSTR MID 2016
- •Gulf Blvd from SR 686 to Bayway CONSTR LATE 2016
- •CR 1 from GTB to Alderman CONSTR 2016



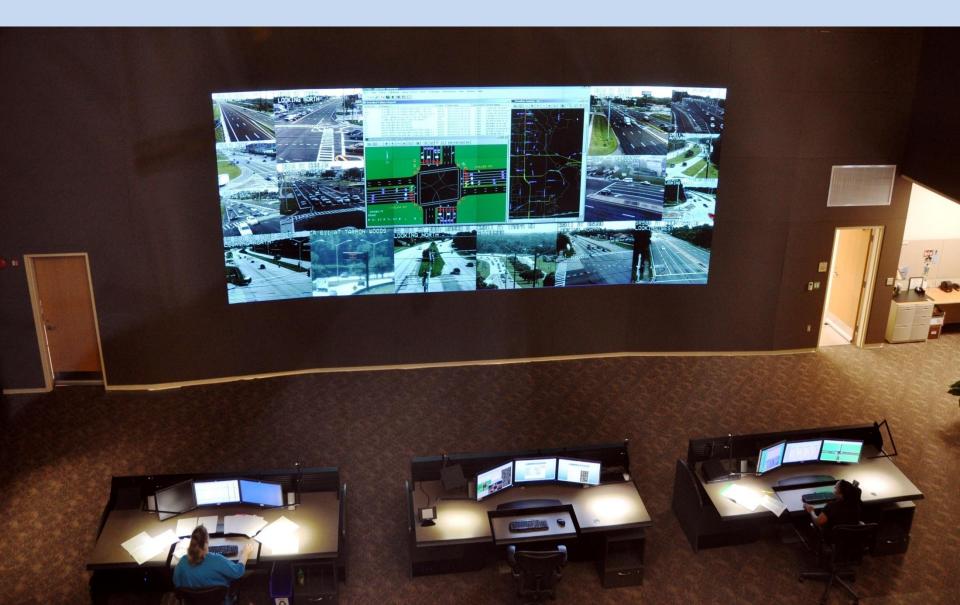
- •US 19 from Pasco to Haines-Bayshore COMPLETE
- •SR 60 from Damascus to Hillcrest COMPLETE
- •US 19 from Haines Bayshore to 46th Avenue COMPLETE
- •49th Street from Bayside Bridge to US 19 COMPLETE
- •Belcher Road from Klosterman to Druid COMPLETE
- •SR 60 from Hillcrest to Island Way COMPLETE
- •SR 580/586 from Race Track Rd to Alt US 19, Tampa Road from SR 580 to Keene Rd COMPLETE
- North Fiber Trunk Line COMPLETE
- •SR 686 from Roosevelt to Gulf Blvd. -COMPLETE
- •South Fiber Trunk Line / Seminole Blvd. ATMS COMPLETE
- •US 19 from 46th Avenue N to 54th Ave S COMPLETE
- •Ulmerton from Hamlin to Seminole COMPLETE
- Park Blvd from I-275 to Gulf Blvd. CONSTR 2016
- •66th Street from US 19 to Gulf Blvd. CONSTR 2016
- Bryan Dairy from Seminole to 49th Street CONSTR 2016
- •Belcher Rd from Druid to Park Blvd. CONSTR MID 2016
- •Gulf Blvd from SR 686 to Bayway CONSTR LATE 2016
- •CR 1 from GTB to Alderman CONSTR 2016
- •Alt US 19 from Pasco County to US 19 CONSTR 2017
- •St Pete Downtown ITS CONSTR 2017
- •49th Street from US 19 to Park Design 2017

 Our Vision: To Be the Standard for Public Service in







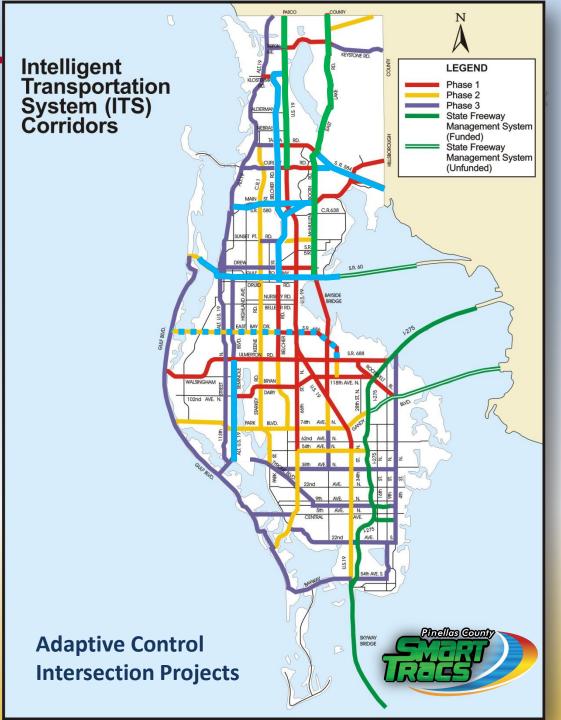


ORIGINAL ADAPTIVE

- US 19 from Curlew to Beckett Way
- •McMullen Booth from Drew Street to Trinity

INSYNC ADAPTIVE

- •SR 60 from Damascus to Hillcrest COMPLETE
- •49th Street from Bayside Bridge to US 19 COMPLETE
- •Belcher Road from Klosterman to Druid COMPLETE
- •SR 60 from Hillcrest to Island Way COMPLETE
- •SR 580/586 from Race Track Rd to McMullen Booth COMPLETE
- •SR 580 from Alt 19 to McMullen Booth COMPLETE
- •Seminole Blvd. from Ulmerton Road to 95th FINE TUNING
- •SR 686 from Roosevelt to Gulf Blvd. –JUNE 2016







Original Adaptive System Before / After Study Results

Gulf-to-Bay Before/After Travel Time Studies

Westbound										
	Existing 2006	Adaptive 2006	Existing vs Adapt 06	Adaptive 2008	Existing vs Adapt 08	Adapt 06 vs Adapt 08				
	Before	After	% Improvement		% Improvement	% Improvement				
AMP	11:02	10:11	7.70%	9:36	12.99%	5.73%				
АМО	10:52	10:03	7.52%	10:01	7.82%	0.33%				
РМО	12:04	10:38	11.88%	9:47	18.92%	7.99%				
PMP	13:13	12:19	6.81%	10:01	24.21%	18.67%				
	Eastbound									
AMP	12:06	10:23	14.19%	9:42	19.83%	6.58%				
АМО	10:32	10:03	4.59%	9:58	5.38%	0.83%				
РМО	11:07	10:28	5.85%	9:54	10.94%	5.41%				
PMP	11:45	11:42	0.43%	10:24	11.49%	11.11%				

^{*} Existing = Signal timing running prior to new system. Performed by Gord and Associates



Accident Analysis

REAR-ENDS BY FISCAL YEAR ALONG US HWY 19 N CORRIDOR (FROM ENTERPRISE RD TO BECKETT WAY)

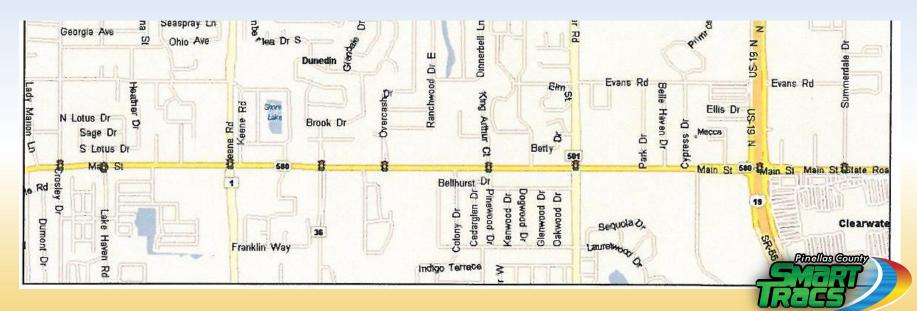
		ON US HWY 19 N			AT US HWY 19 N			TOTALS					
		TOTAL REAR- ENDS	TOTAL # OF INJ. ACC	Injuries (INJ.)	Fatalities (FAT.)	TOTAL REAR- ENDS	TOTAL # OF INJ. ACC	Injuries (INJ.)	Fatalities (FAT.)	TOTAL REAR- ENDS	TOTAL # OF INJ. ACC.	TOTAL INJ.	TOTAL FAT.
- 1	PERCENTAGE MPROVED	15.6%	17.5%	14.5%	100.0%	-3.3%	10.5%	-7.8%	0.0%	12.2%	16.4%	11.7%	100.0%





InSync Adaptive Control Software Test

- SR 580 from Summerdale to Pinehurst (9 ints)
- Pinellas County is the first installation in Florida
- Before / After studies were preformed to evaluate the new software





SR 580 Before / After Study Results

■ Study Conducted by Kimley-Horn and Associates March 6 – 15, 2012.

SR 580 Travel Time Comparison (Overall Results)								
Performance Metric	Before	After	Percent Improvement					
Travel Time (secs)	2,127.8	1,914.7	10%					
Average Speed (mph)	23.6	26.6	13%					
Total Delay (secs)	889.3	675.7	24%					
Number of Stops	15.4	9.7	37%					





SR 580 Before / After Study Results

Study Conducted by Albeck-Gerken, Inc. April 2015.

	SR 580/Main St: Crash Histories (All Intersections)							
	Crashes Before InSync			Cras	hes After InSy	Annual	A	
	2010	2011	Average	2012 / 2013	2013 / 2014	Average	Crash	Annual % Difference
	Jan - Dec	Jan - Dec	Per Year	Apr - Mar	Apr - Mar	Per Year	Difference	Difference
Angle	32	31	31.5	29	25	27	-4.5	-14%
Bike	15	10	12.5	5	6	5.5	-7	-56%
Fixed Object	3	5	4	7	2	4.5	0.5	13%
Head - On	2	0	1	1	0	0.5	-0.5	-50%
Left Turn	15	11	13	14	15	14.5	1.5	12%
Ped	6	4	5	2	1	1.5	-3.5	-70%
Rear End	102	103	102.5	75	85	80	-22.5	-22%
Side Swipe	22	26	24	28	28	28	4	17%
U-Turn	0	2	1	3	5	4	3	300%
Total	197	192	194.5	164	167	165.5	-29	-15%



Belcher Road Before / After Study Results

Study Conducted by DKS and Associates June 2014.

Belcher Road Travel Time Comparison									
Performance Metric	Before	After	Percent Improvement						
Travel Time (secs)	1,227	1,165	5%						
Average Speed (MPH)	25.8	26.9	4%						
Total Delay (secs)	213	145	46%						
Number of Stops	4.6	4.1	12%						



BLUETOOTH TRAVEL TIME

- McMullen from Trinity to Roosevelt (Complete)
- SR 60 from Island Way to Damascus (Complete)
- US 19 from Beckett Way to 49th St (Collecting Data)
- SR 580 from Racetrack to McMullen-Booth Road (Complete)
- Belcher Road from Klosterman to Druid (2016)
- SR 686 (Bay / Roosevelt) from Ulmerton to Gulf (2016)
- 49th Street from Ulmerton to US 19 (website only)
- 66th Street from Park to Gulf Blvd. (website only)
- Park Blvd from Gandy to Gulf Blvd. (website only)
- Bryan Dairy from Seminole to US 19 (website only)

Intelligent Transportation System (ITS) Corridors



LEGEND Phase 1

Phase 2 Phase 3 State Freeway

Management System (Funded)

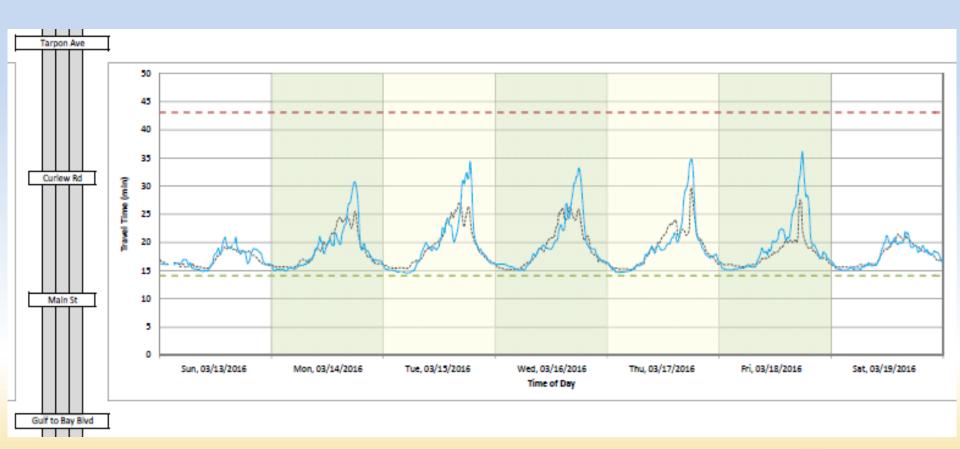
State Freeway
Management System
(Unfunded)



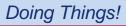




Bluetooth Travel Time Data

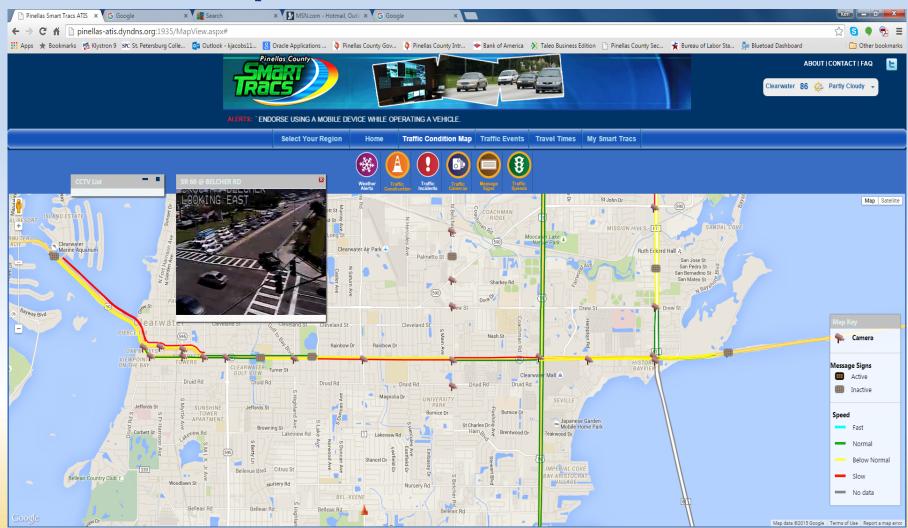








ATIS Components - Website





Questions or Comments?



