

- Connected Vehicles & Transit
- Tolling & Transit

Walk. Ride. Drive. Smarter.







VEHICLE PILOT















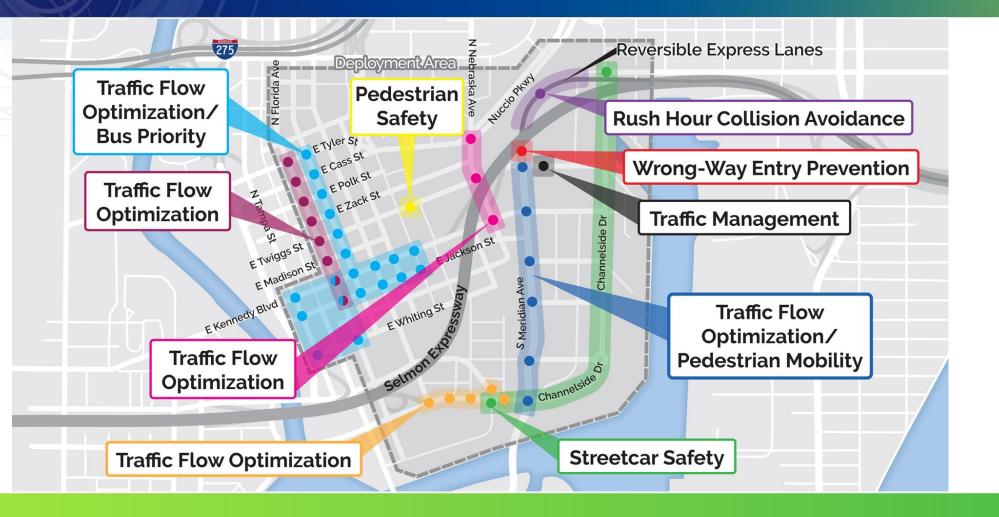
CONNECTED VEHICLES IN TAMPA





FOCUSED DEPLOYMENT AREA





PARTICIPANTS



1,600

Privately Owned Vehicles



500+

Pedestrian
Smartphones
(Android devices only)



10

TECO Line Streetcar Trolleys



10

Hillsborough Area Regional Transit (HART) buses

TRANSIT SIGNAL PRIORITY



Applications

I-SIG

Transit Signal Priority (TSP)

IMA

Pedestrian Transit
Movement
Warning (PTMW)



STREETCAR CONFLICTS





BUS TOLL LANES





BUS TOLL LANES





Bus Toll Lanes



An <u>equity based</u> revenue sharing concept that provides:

- A Transit application based on Price Managed Lanes.
- New capacity for transit's need & use that allows for limited access entry of toll paying vehicles; but prioritizes of available capacity for transit.
- <u>Multi-modal solution</u> for creating financially sustainable transit service while addressing urban congestion.
- Price managed to assure free flow operations and "Congestion Insurance" for all users.

Why Consider Bus Toll Lanes?

BTL - MOVE PEOPLE!

	Condition (Vehicle Occupancy Rate = 1.1)	Buses Per Hour	Person Throughput Per Hour	Comparison to General Purpose Lane
	General Purpose Lane With Severe Congested	0	1100	100%
	Price-Managed Express Lane No Transit	0	1815	165%
	BTL 15 Minute Headway	4	1977	180%
ŀ	BTL 10 Minute Headway	6	2058	187%
	BTL 5 Minute Headway	12	2302	209%
	BTL 2 Minute Headway	30	3032	276%
	BTL 1 Minute Headway	60	4248	386%



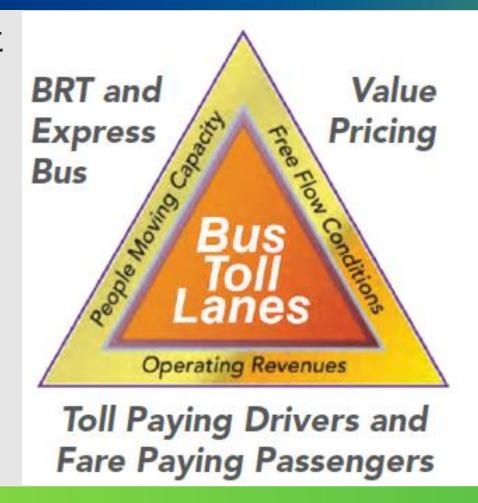
60 buses an hour would use less than 10% of the lane capacity.

The remaining 90% is available for toll paying vehicles that will support and grow the transit service.

Why Consider Bus Toll Lanes?



- Fast Reliable Transit
 Trips
- Low Cost Choice to Driving and Paying the Toll
- Competitive Choice to Move People Out of Cars
- Address Equity Issues



- Urban Solution
- Sustainable Level of Service
- Sustainable Source of Revenue
- Test Beds for the <u>ACES</u> Future
 - Automated
 - Connected
 - Electric
 - Shared

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https://www.tampacvpilot.com/

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Brochure: https://www.tampa-xway.com/wp-content/uploads/2016/04/Bus-Toll-Lanes-Final-Brochure_sm.pdf

Report: https://www.tampa-xway.com/wp-content/uploads/2018/01/THEA-BTL-Final-Report-Full-Packet-3.pdf