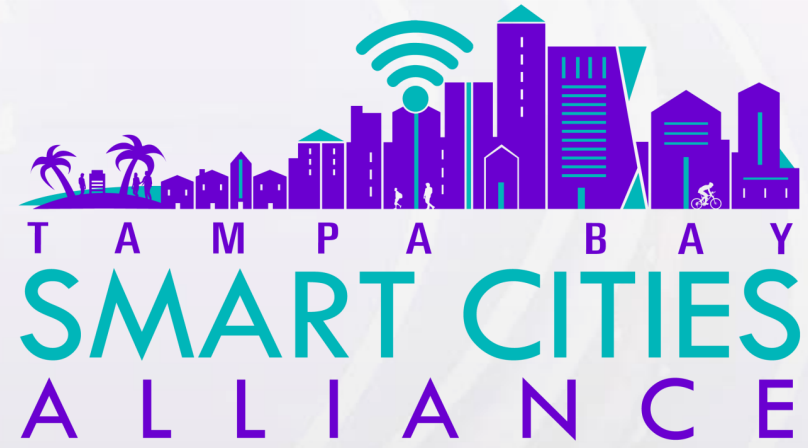


# Congestion Management Counter Measures

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Hillsborough LRC Committee  
April 17, 2024



*A regional collaboration focused on using technology and innovation to improve transportation.*

# 2050 LRTP Needs Assessment

## Congestion Management Scenarios

### Scenario 1 – TREND (Funding reflecting current spending)

- Annual budget for treatments: \$24 M
- Treatments focused on the most congested roads
  - Freeways: Ramp Metering and Part-time Hard Shoulder Running
  - Arterials & Collectors: Real-Time Traffic Adaptive Signal Control



Source: 2050 LRTP Needs Assessment for  
Congestion Management & Crash Mitigation  
November 2023

## Congestion Management Scenarios

### Scenario 2 – PERFORMANCE (Funding increased to improve system performance)

- Annual budget for treatments: \$48 M
- Treatments focused on the most congested roads
  - Freeways: Ramp Metering, Part-time Hard Shoulder Running, Traffic Incident Management
  - Arterials & Collectors: Real-Time Traffic Adaptive Signal Control and Left-Turn Lanes at Intersections where applicable



# Congestion Management Tools

## Current Investments

Managed Lanes

Demand Management

Multimodal Options

Traffic Operations/ITS

Innovative Design

## Planning/Pilot Phase

Smart Corridor

Mobility as a Service

Regional Data Platform

Work Zone Data







### CONSTRUCTION COMPLETE

- Cypress St/LaSalle St - FPID 447614-1

### UNDER CONSTRUCTION

#### Gateway Expressway

- FPIDs 433880-1, 424501-2 (E7J46)

#### Howard Frankland Bridge - Section 3

- FPIDs 422904-2, 424904-4 (E7R10)

#### Tampa's Westshore Interchange - Section 4

- Causeway Seawall, Trail & SB I-275 - FPID 447534-1 (E7P42)
- Veterans Connection WB SR 60 - FPID 447107-1 (E7R39)
- Reo Street Widening - FPID 447615-1

#### Downtown Tampa Interchange - Section 6

- FPIDs 445057-1, 445056-1, 445056-2 (E7R70)

#### I-275 Capacity Improvements - Section 7

- Phase I - FPIDs 443770-1, 431821-2 (T7472)

#### I-75/Dr Martin Luther King, Jr. Blvd Interchange

- FPID 429251-1 (E7R26)

#### I-75/Big Bend Rd Interchange

- FPID 424513-3 (E7R21)

### CONSTRUCTION TO BEGIN SOON

#### Tampa's Westshore Interchange - Section 4

- FPIDs 447107-2, 447107-3, 447107-4 (E7R30)

### FUTURE PROJECTS

#### I-275 Pinellas Corridor - Section 2

- FPID 449109-1
- FPID 449109-2\*
- FPID 424501-7\*

#### Tampa's Westshore Interchange - Section 4\*

- Veterans Connection EB SR 60 - FPID 447107-5

#### I-275 Corridor from Westshore to Downtown Tampa - Section 5\*

- I-275 Mainline - FPID 434045-2
- I-275 Downtown Connection - FPID 434045-3
- I-275 Off-ramp to Scott St/Tampa St - FPID 451462-1

#### Downtown Tampa Interchange - Section 6\*

- Scott St/Orange Ave - FPID 447616-1

#### I-275 North of Downtown Tampa - Section 7\*

- Future Phases - FPIDs 431821-3, 431821-4

#### I-4 Corridor - Section 8\*

- FPIDs 431746-3, 431746-4, 431746-5

#### I-75 North Corridor - Section 9\*

- FPID 419235-6

#### I-75 South Corridor - Section 10\*

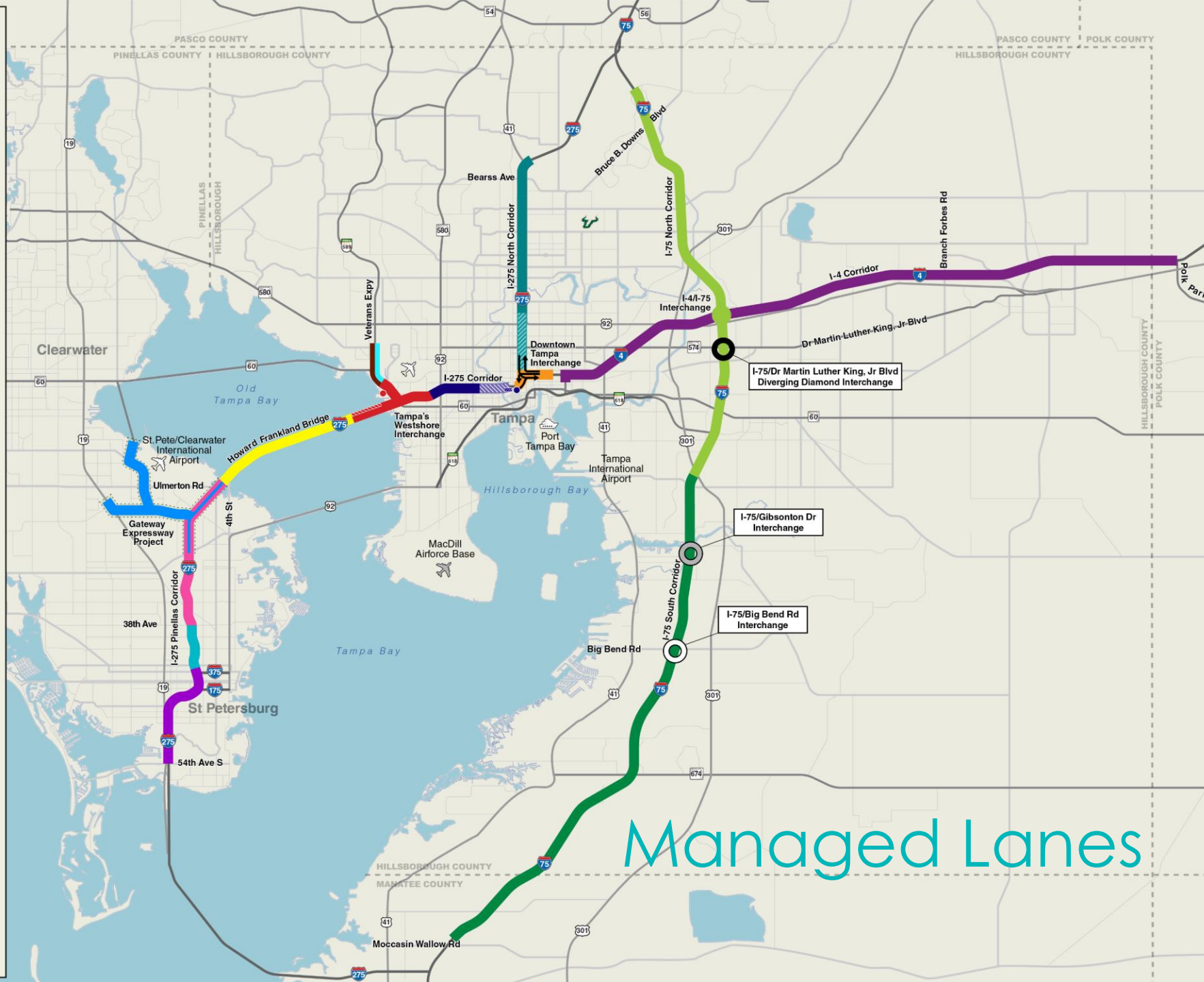
- FPIDs 419235-5, 419235-7

#### I-75/Gibsonton Dr Interchange

- FPID 437650-2

\* Not currently funded for construction

Updated 02/27/2024



Managed Lanes

# Demand Management



**COMMUTE**

with enterprise

The "enterprise" logo consists of the word "enterprise" in a white, lowercase, sans-serif font, positioned to the right of a green square icon containing a white stylized "e" shape.



# Multimodal Improvements

- SunRunner BRT (PSTA)\*
- Regional Rapid Transit (TBARTA/FDOT)
- Bus on Shoulder (FDOT/PSTA)
- Streetcar Extension (HART/City of Tampa)\*\*
- Arterial BRT (HART)
- Multimodal Center Studies (FDOT)
- Cross Bay Ferry (FDOT)

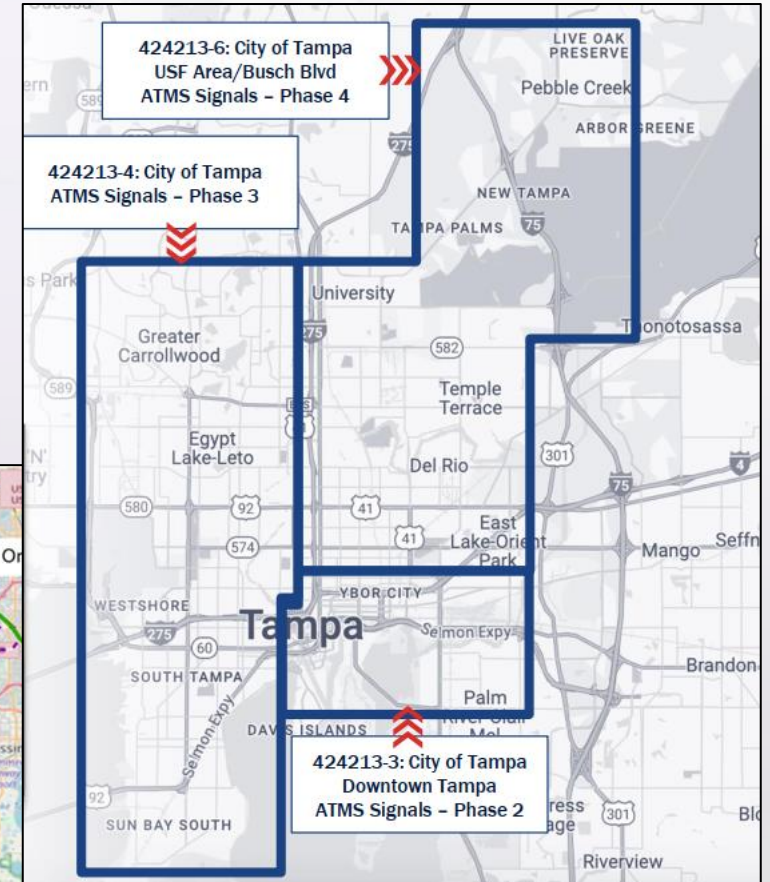
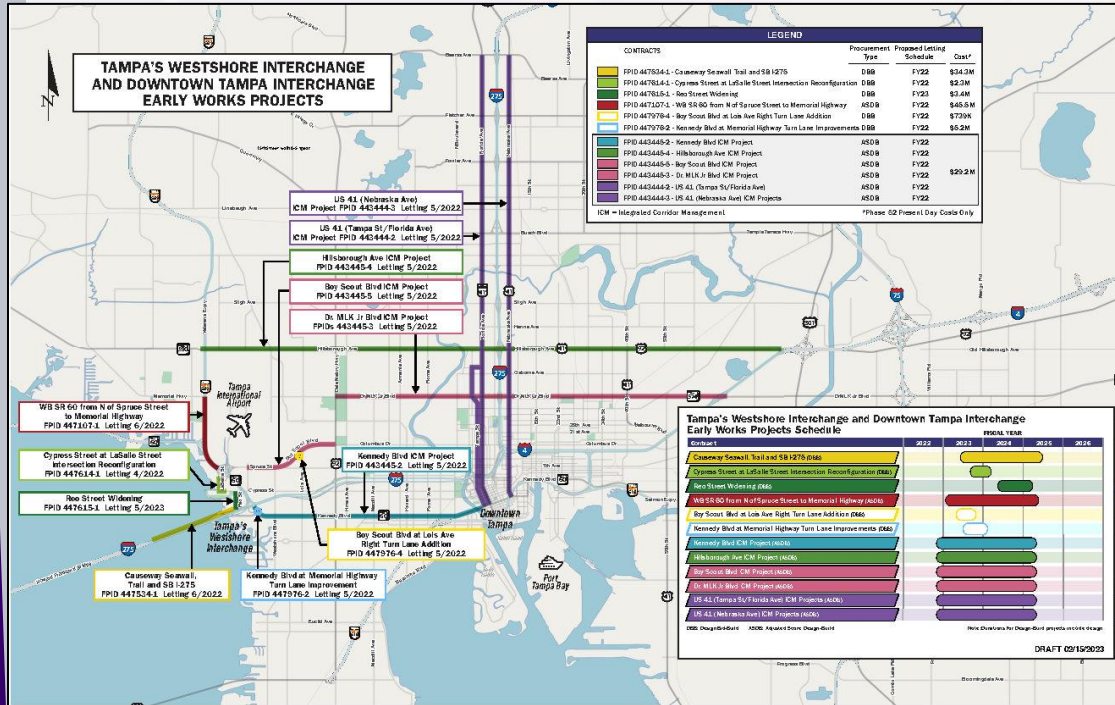
\*Received federal grant from FTA

\*\*Seeking federal grant from FTA

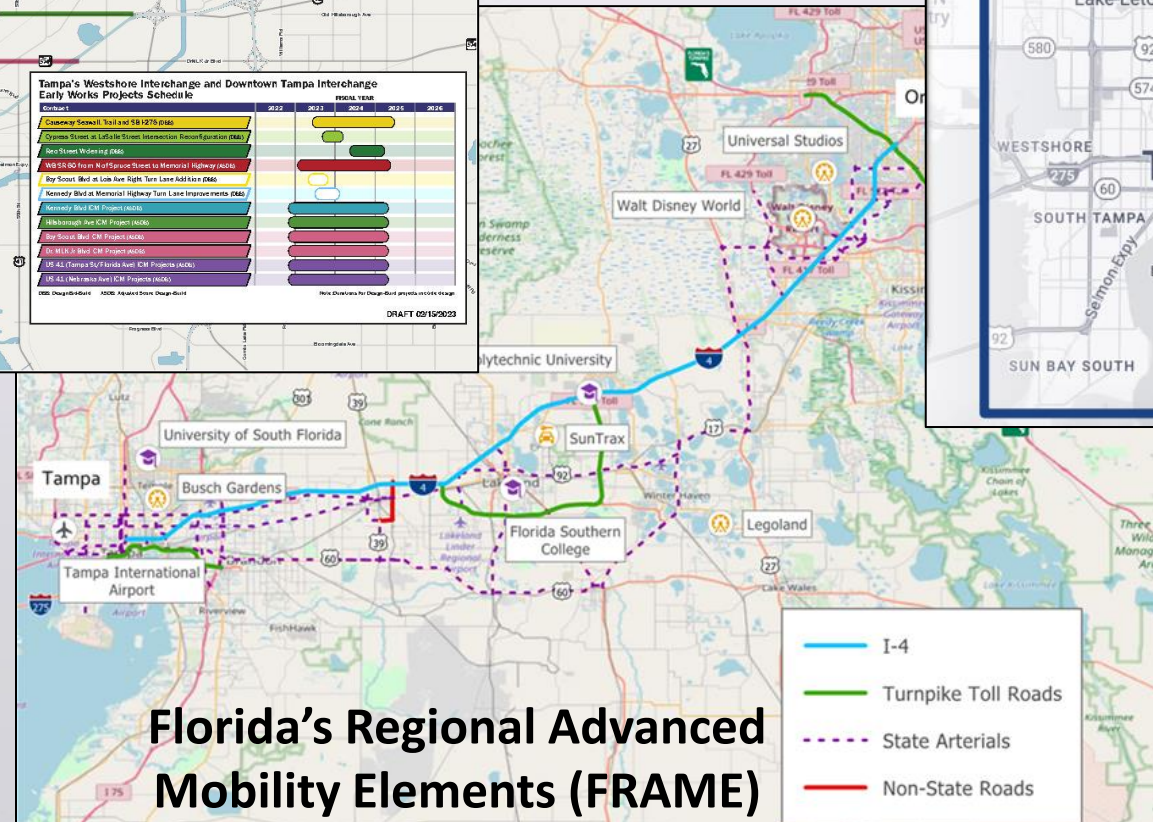




# Traffic Operations/ITS



**Integrated Corridor Management (ICM)**



**Arterial Traffic Management System (ATMS)**



# Innovative Design Strategies

## Diverging Diamond Interchange



I-75 at SR 56 (Pasco)



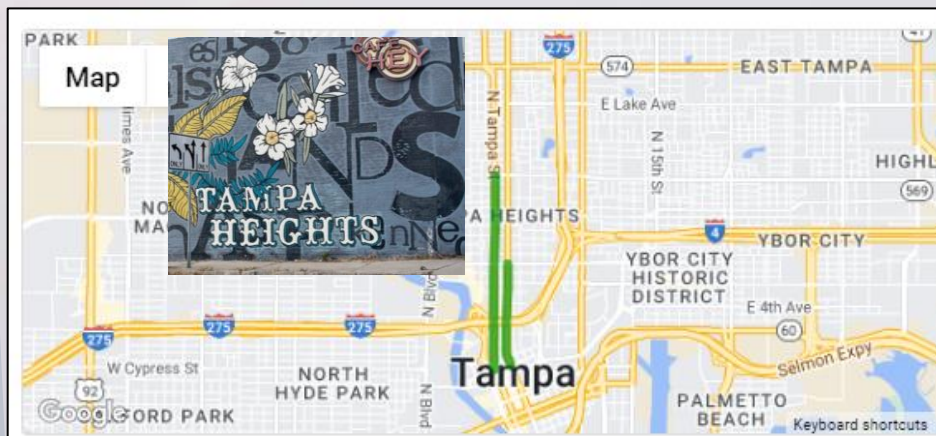
I-75 at MLK Jr. Blvd. (Hills)

## Roundabouts



SR 679 at Madonna Ave. (Pine)

## Complete Streets



Heights Mobility Improvements

## Protected Bikeways



Jackson Street Cycle Track





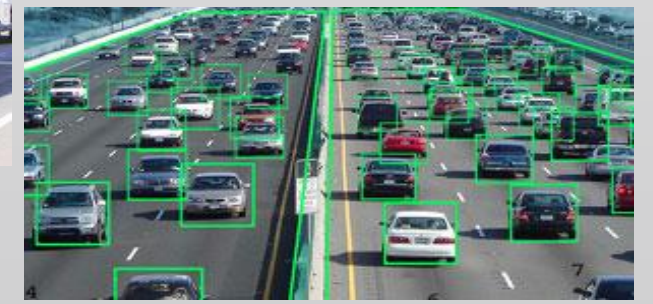
# Smart Corridor - Phase 1

## Schedule

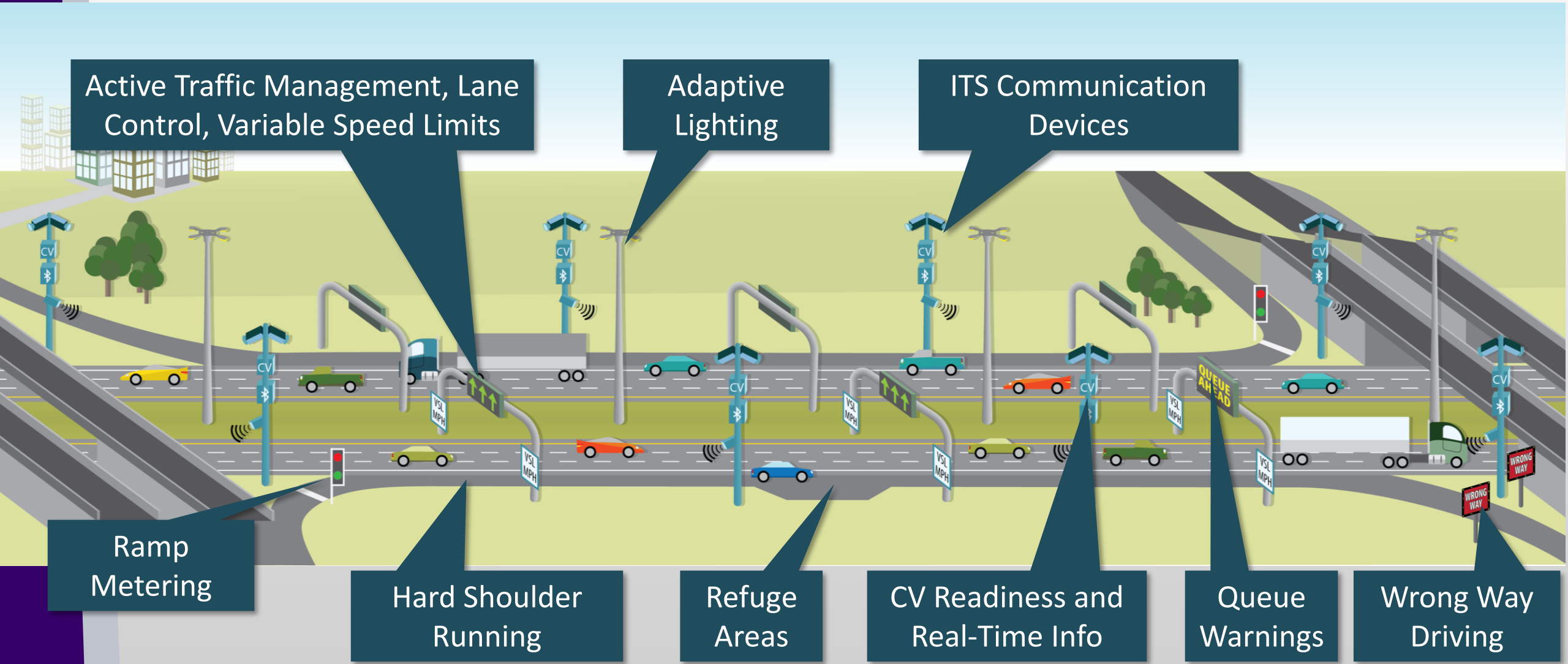
- Began Winter 2020
- Completed Fall 2021

## Deliverables

- A clear description of smart corridor for FDOT District 7
- **Unique toolkits** to support project development and pilots
- A **specific brand** for the smart corridor concept
- A **flexible approach** that leverages existing technologies, but is also **future proofed** for new and emerging solutions such as autonomous



# What is a Smart Corridor?



Active Traffic Management, Lane Control, Variable Speed Limits

Adaptive Lighting

ITS Communication Devices

Ramp Metering

Hard Shoulder Running

Refuge Areas

CV Readiness and Real-Time Info

Queue Warnings

Wrong Way Driving



# Smart Corridors – Phase 2

## Schedule

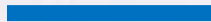



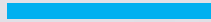



- TBD

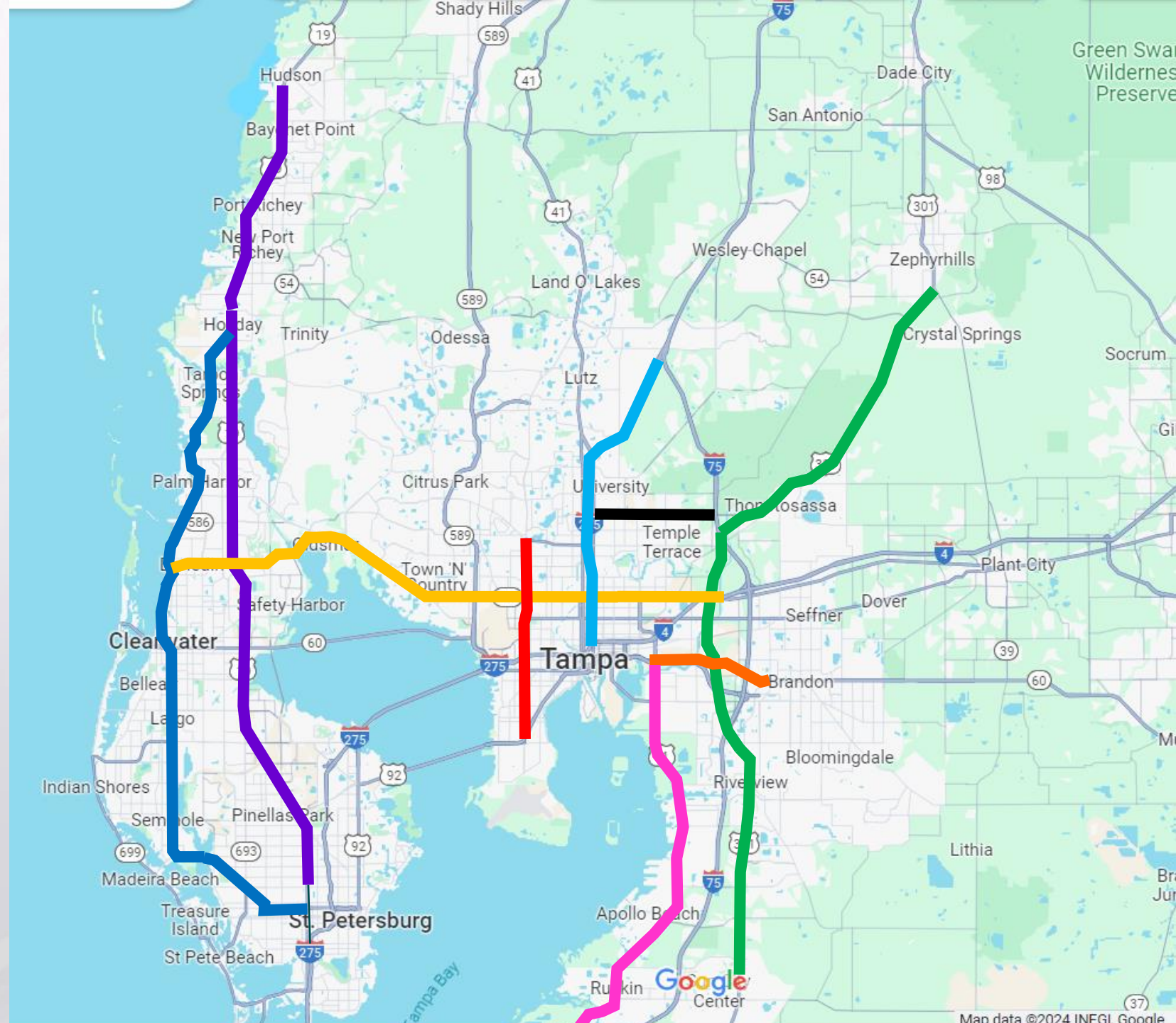
## Scope

- Focus on **specific corridor** suitable smart technologies.
- Analyze existing and proposed traffic conditions and projected volumes via **modeling efforts**.
- Create **concept designs and operations** for smart corridors along the roadway segments.
- Finalize the **branding/communications plan and public outreach plan**, including staff interviews.
- Produce recommendations concerning the **prioritization and long-term investment** of these technologies.



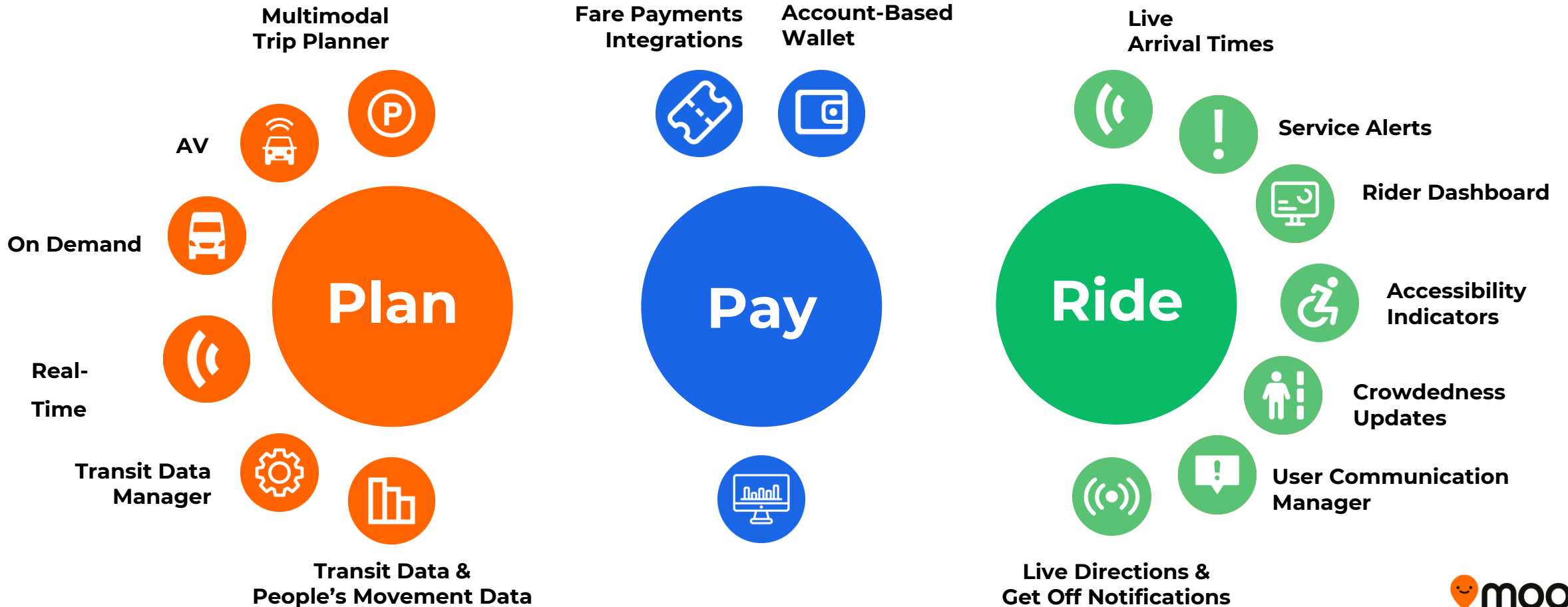
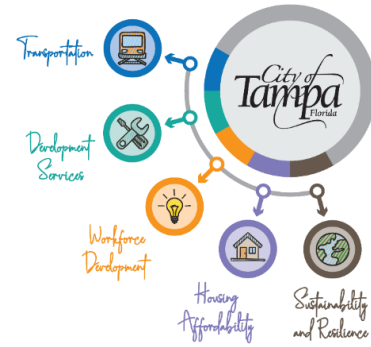
# Candidates

- Alt 19 
- US 19 
- SR 580/  
Hillsborough 
- Dale Mabry 
- I-275 North 
- Fowler Ave. 
- US 301 
- US 41 





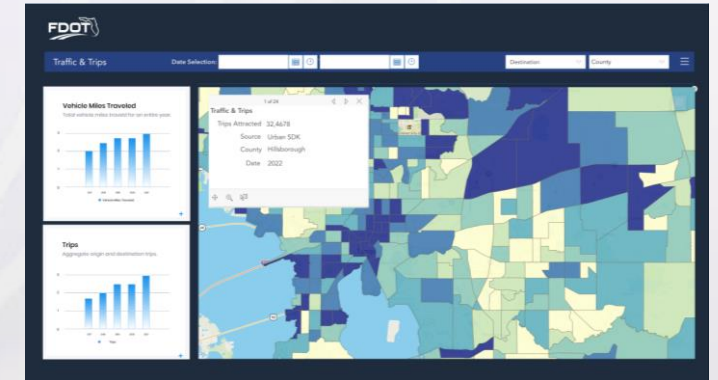
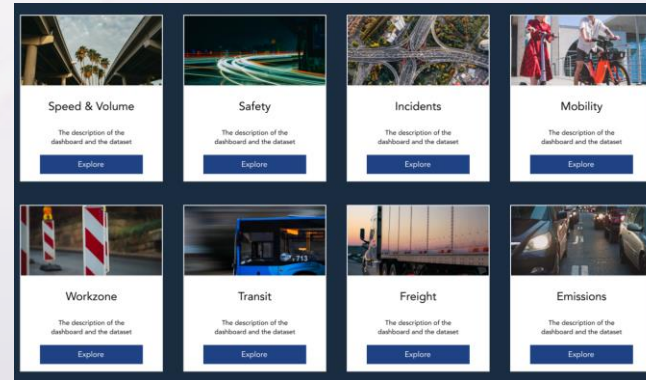
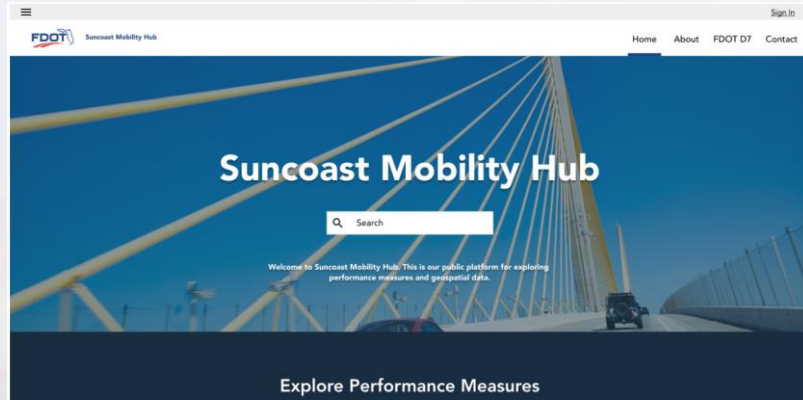
# City of Tampa - Mobility as a Service (MaaS) App





# Suncoast MobilityHub

## A Regional Data Platform for Tampa Bay



In partnership with:

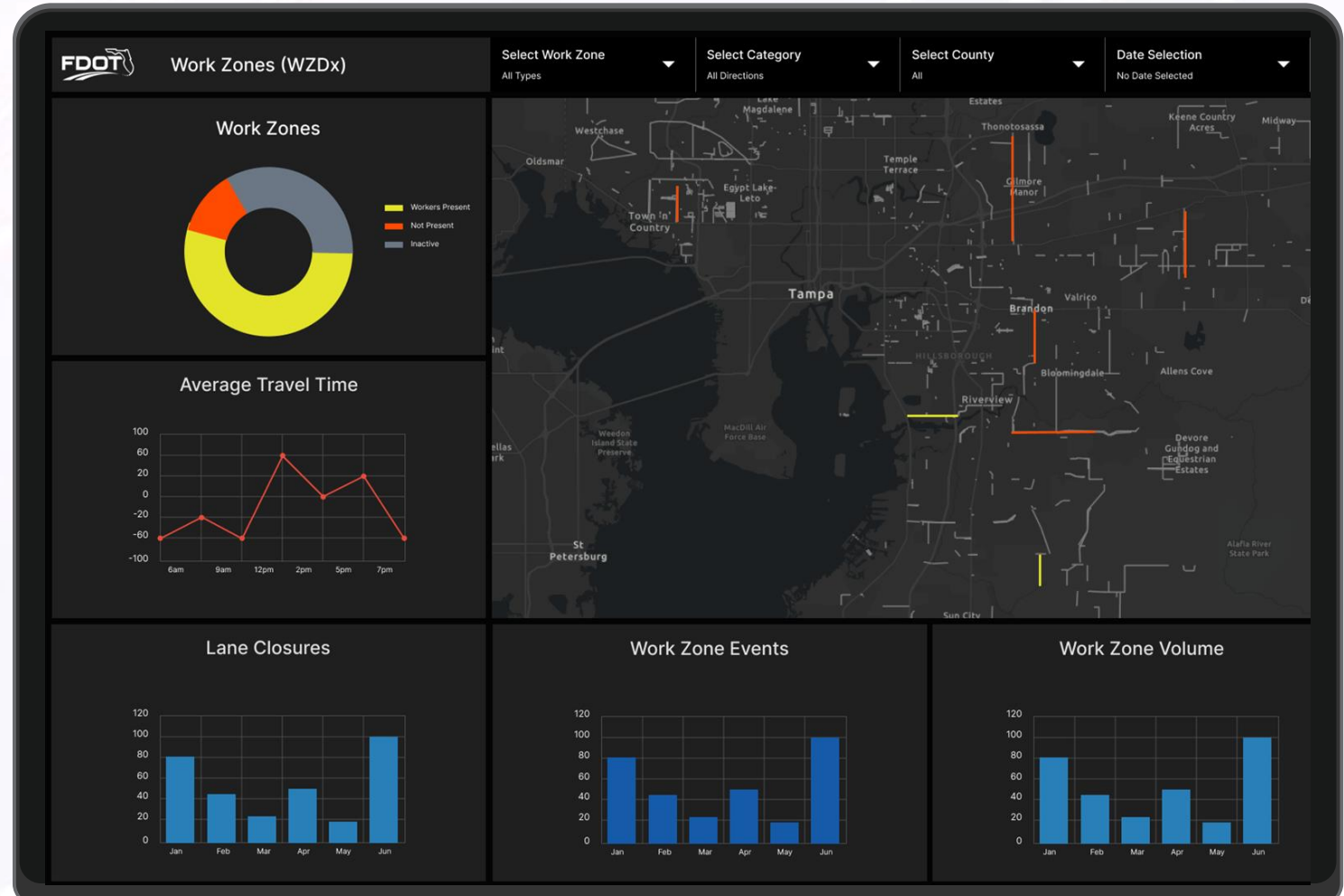


Polk Transportation Planning Organization



# Work Zone Data Exchange (WZDx)

The Work Zone Data Exchange enables cross agency partners to share work zones information and access real-time information.



# On the Horizon

DIGITAL TRANSFORMATION

ADVANCED AIR MOBILITY

AUTOMATED VEHICLES

CONSTRUCTION MITIGATION

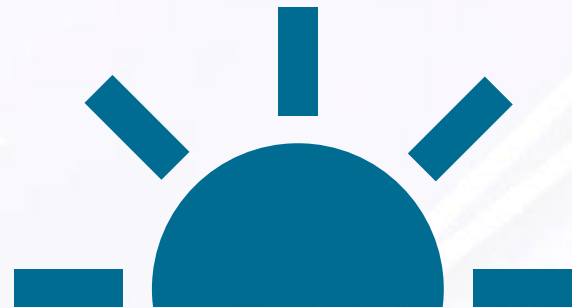
PREDICTIVE ANALYTICS

BEHAVIORIAL SCIENCE

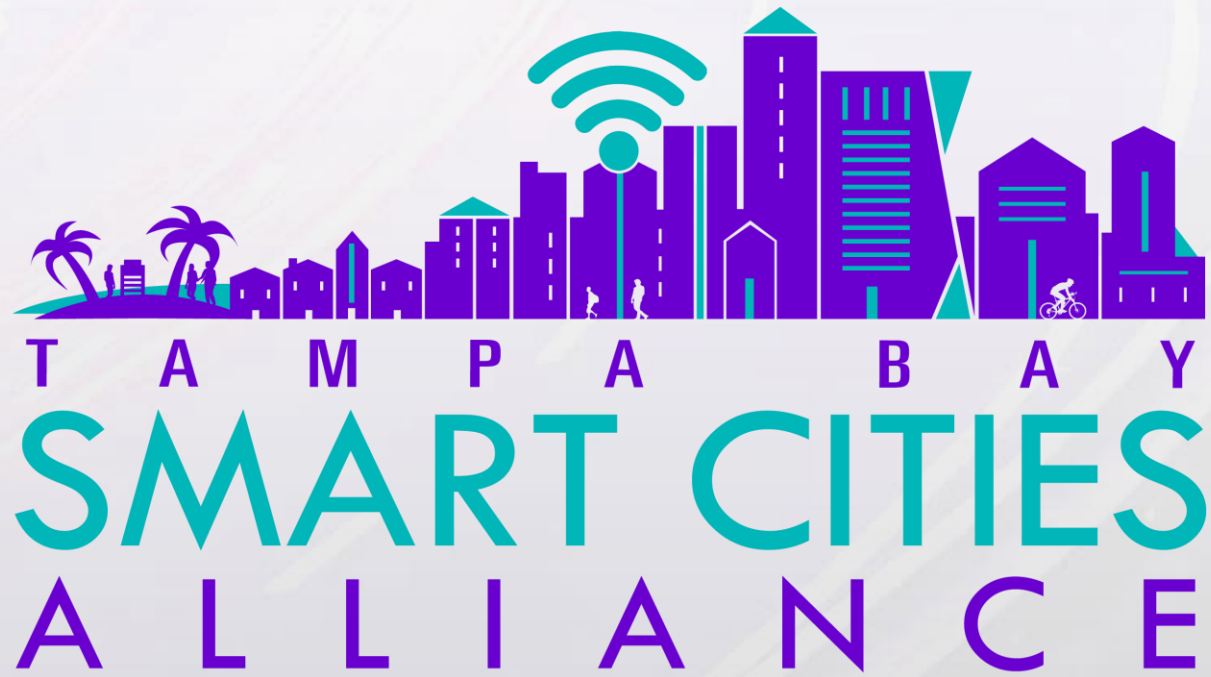
SMART PARKING

ALTERNATIVE FUELS

ARTIFICIAL INTELLIGENCE







*[tbsmartcities.com](http://tbsmartcities.com)*