## FTP Implementation Committee Meeting #2

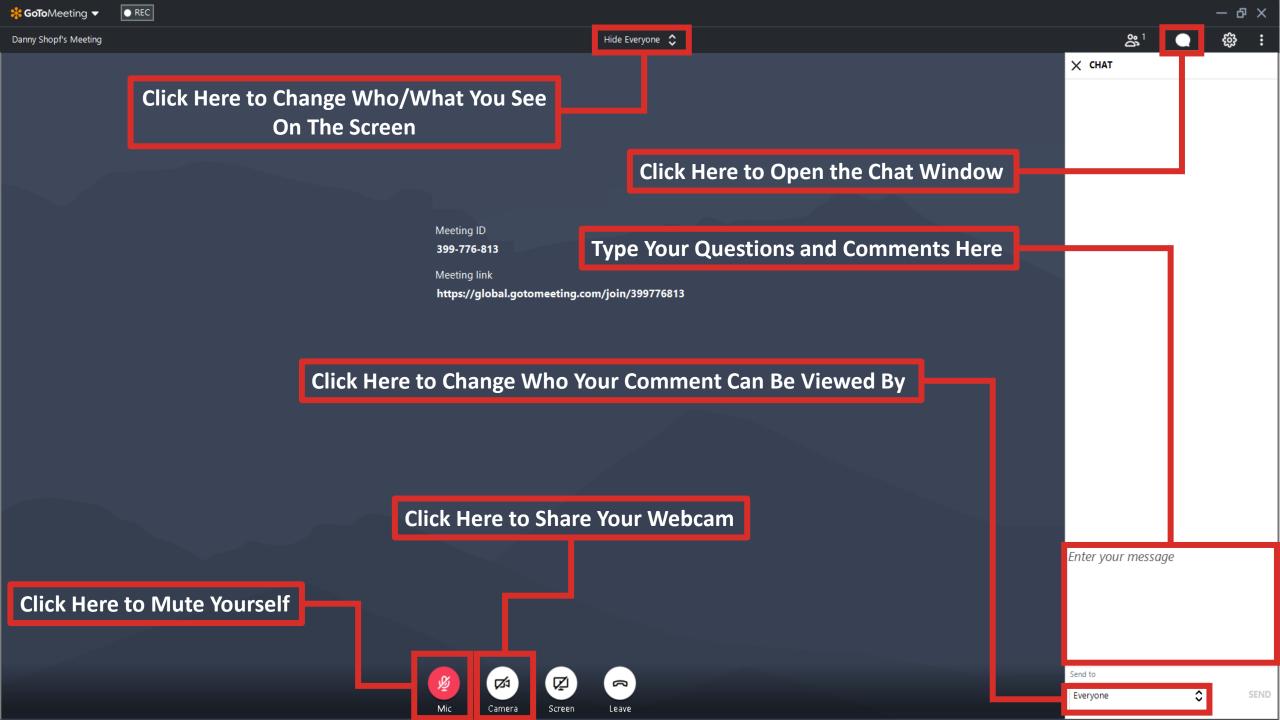
### Webinar

presented to

FTP Implementation Committee







## Today's Objectives

- Refine FTP implementation actions and SIS Policy
   Plan recommendations related to safety, technology, and resilience
- Discuss FTP implementation strategies related to connectivity and mobility
- Discuss SIS Policy Plan ideas relating to urban and rural mobility and connectivity

## Morning Agenda

Time	Topic	Presenter(s)
9:00 am	Welcome and Introductions	Brad Thoburn, FDOT
9:20 am	Setting the Stage	
	<ul> <li>Key trends shaping near term</li> </ul>	Alison Stettner, FDOT
	<ul> <li>Key 2021 Florida legislation</li> </ul>	
	Federal outlook	
9:40 am	Partner Roundtable	Group Discussion
10:30 am	Review of FTP Implementation Actions from last meeting	
	<ul><li>Safety</li></ul>	Dana Reiding, FDOT
	<ul> <li>Resilience</li> </ul>	Jennifer Carver, FDOT
	<ul> <li>Technology</li> </ul>	John Kaliski, Cambridge Systematics
11:00 am	Incorporating safety, resilience, and technology into the SIS Policy Plan	Gerald Goosby, FDOT
11:30 am	Break for lunch	
LUNCH BREAK (11:30 am- 1:30 pm)		



## Afternoon Agenda

Time	Topic	Presenter(s)
1:30 pm	Review afternoon agenda	Huiwei Shen, FDOT
1:35 pm	Overview of FTP Implementation Actions for	Dana Reiding, FDOT
	<ul> <li>Transform Florida's major transportation corridors and hubs</li> </ul>	
	<ul> <li>Strategically complete transportation systems and networks</li> </ul>	
	<ul> <li>Prioritize mobility for people and freight</li> </ul>	
1:50 pm	Incorporating mobility and connectivity into the SIS Policy Plan	Gerald Goosby, FDOT
3:05 pm	FTP Implementation: Review and discuss regional and local connectivity and mobility	Dana Reiding, FDOT
3:35 pm	Public Comment	Huiwei Shen, FDOT
3:45 pm	Next Steps	Dana Reiding, FDOT
4:00 pm	Adjourn	











## Setting the Stage

Alison Stettner, Office of Policy Planning

May 26, 2021

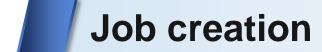


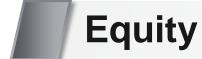




## **A Changing Policy Discussion**



















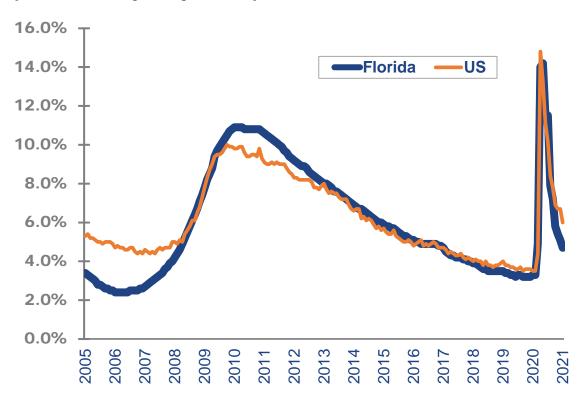
# A Changing Florida



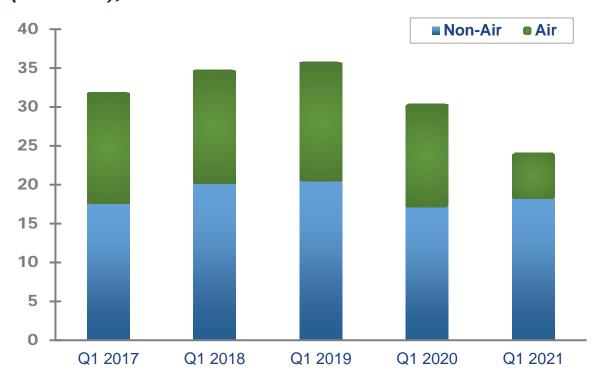


## **Economy Is Improving**

## Unemployment Rate (Seasonally Adjusted), 2005 to 2021



## Visitor Arrivals to Florida, (Millions), Q4 2016 to Q4 2020



Source: Florida Department of Economic Opportunity; Visit Florida



## Impacts Are Uneven



TRANSPORTATION is the

THIRD HIGHEST HOUSEHOLD COST

for a family of four in Florida

of households in Florida are considered ASSET LIMITED, INCOME CONSTRAINED, WHILE EMPLOYED (ALICE)

28% HAVE A of ADULTS in Florida DISABILITY



Source: United Way Alice Report 2020: Florida, CDC

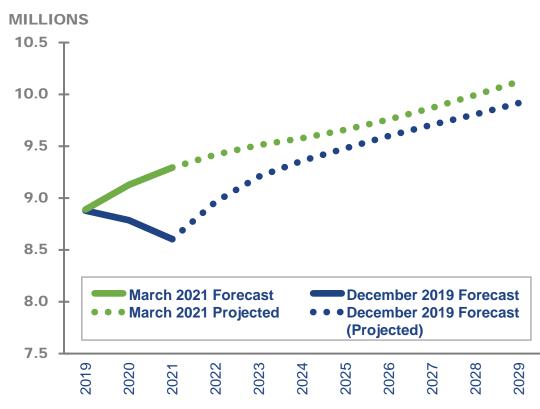


## Long-Term Growth Expected to Resume

#### Visitors, 2019-2029



#### Total Non-Farm Employment, 2019-2029



Source: Florida Economic Estimating Conference



## **Preparing for Risks**

2020 HURRICANE SEASON

**MAY 2020 NOAA FORECAST** 

**19 NAMED STORMS** 

**10 HURRICANES** 

**ACTUAL** 

**30 NAMED STORMS** 

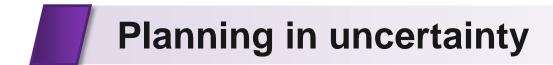
**13 HURRICANES** 

Flooding (100-year)
SIS Corridors and Hubs

Source: NOAA, FDOT SIS Resilience Study



## **Policy Implications**





Supporting job creation and economic stimulus

Improving equity and access to opportunity





## Safety





## Safety –2020 Change in Fatalities

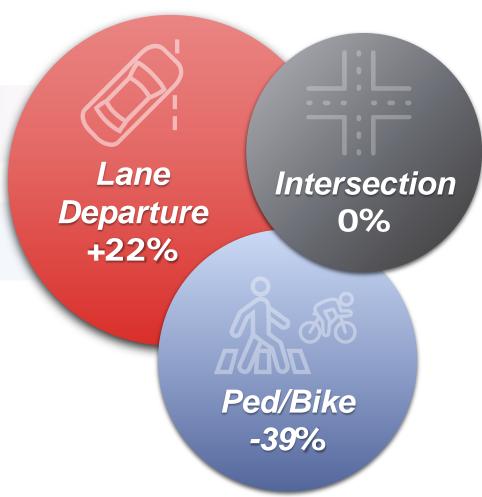
(Preliminary)



Impact of less congestion and higher speeds?



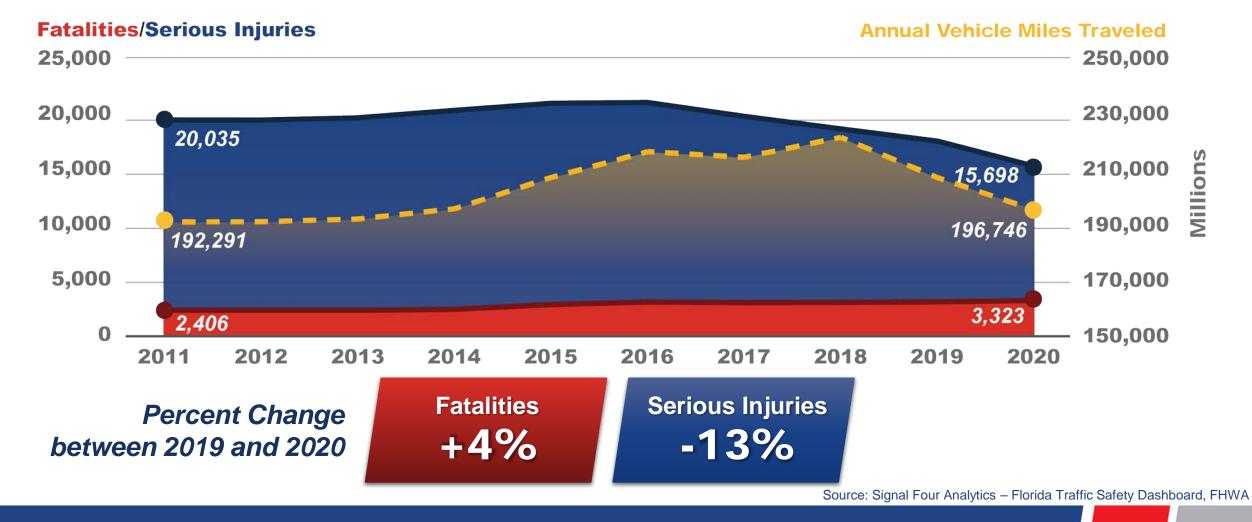
Impact of higher unemployment, decreased visitors, more flexible work schedules?



Source: Signal Four Analytics - Florida Traffic Safety Dashboard



## Safety – Long-Range Trends



## Safety - Policy Implications

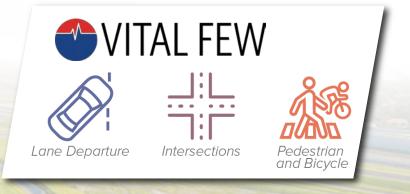




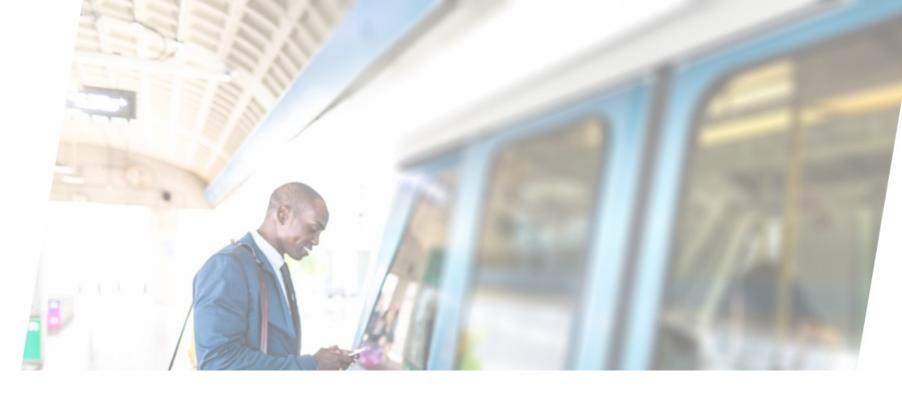


Priority and flexibility for funding safety projects









# Mobility





## **Mobility – Recent Trends**

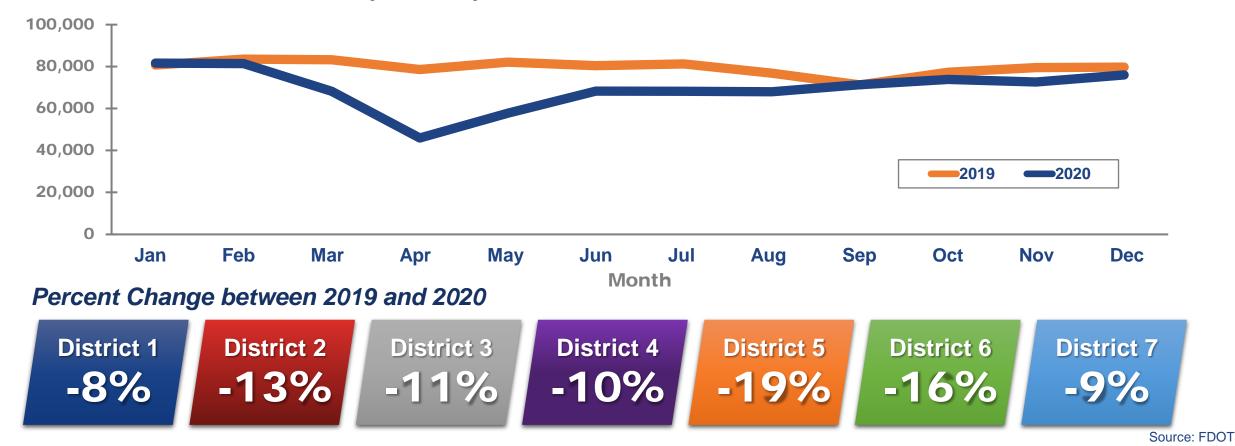
Percent Change between 2019 and 2020





## **Mobility – Recent Trends**

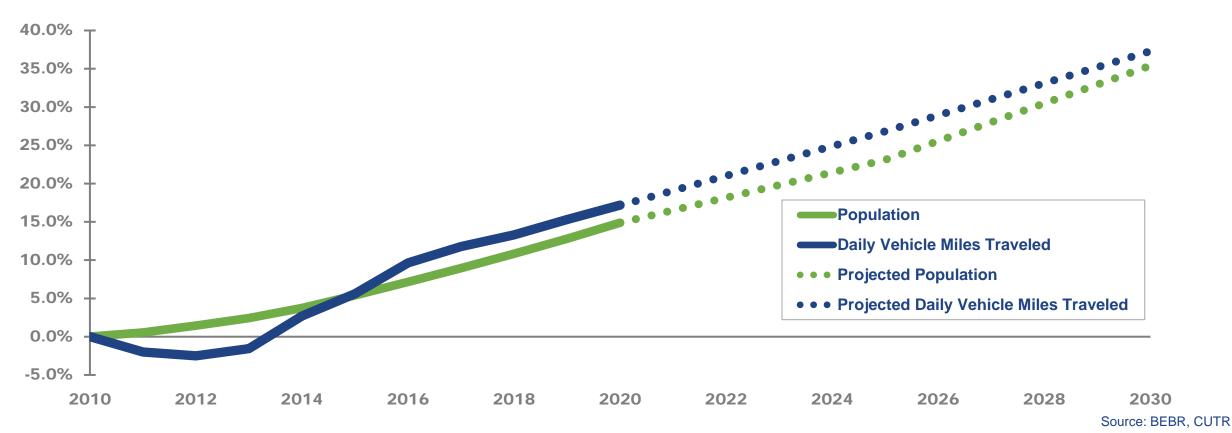
Auto Traffic Volumes, Weekday Freeways





## **Mobility – Long-Term Trends**

#### Will VMT Continue to Grow Faster than Population?





## **Mobility – Policy Implications**

- **Corridor planning** 
  - Alternatives in congested urban areas
     Rural connectivity solutions (SB 100)
- Potential long-term shifts in travel
  - Mode, place, time of day
     Broadband/telepresence
- Rethinking transit and shared mobility
  - Changing customer preferences and technologies
- Providing choices to connect to jobs and services
  - First/last mile solutions





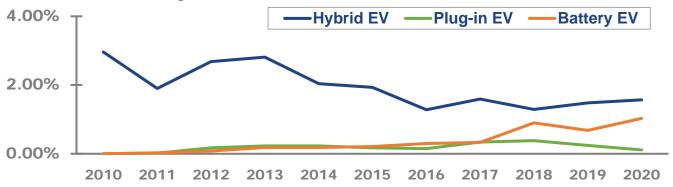
## Innovation



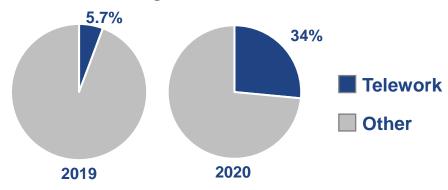


## **Innovation - Trends**

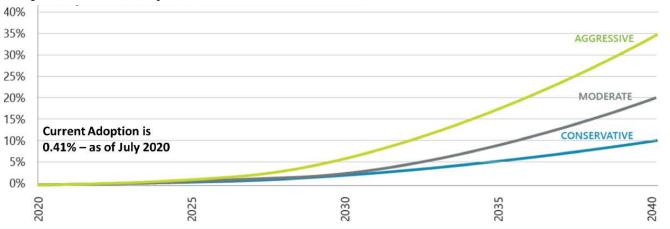
#### Percent of Total Registered Vehicles



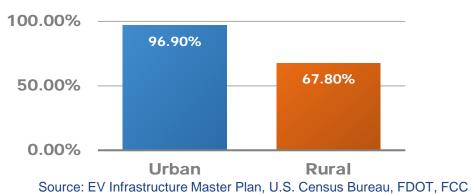
#### U.S. Teleworking Share



Projected EV Adoption Rate in Florida

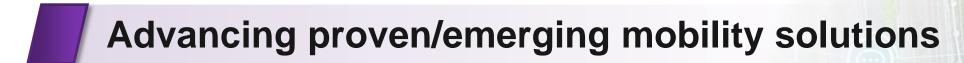


#### Percent of Residents with Broadband Access In Florida Counties, February 2021





## Innovation – Policy Implications



Supporting broadband connectivity

Electric vehicle infrastructure

Cybersecurity and data privacy

Workforce preparedness





# Funding





## Funding – Federal Outlook



**American Rescue Plan Act** 



Discretionary grant programs

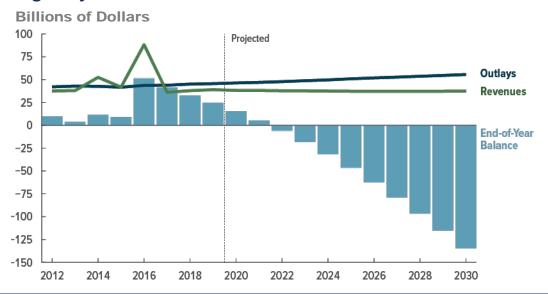


Reauthorization

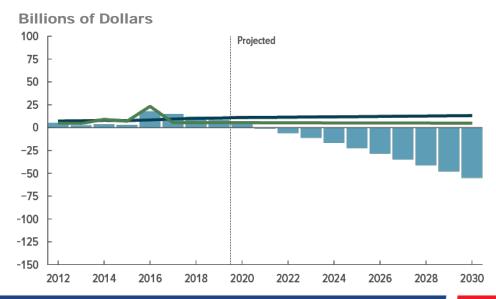


**Infrastructure** bill?

#### Highway Account



#### **Transit Account**





## Funding – Policy Implications











## Safety is Everyone's Responsibility













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## Partner Roundtable



# Review FTP Implementation Actions for Safety, Resilience, and Technology

#### Elements of the FTP

Vision Element Performance Policy Element Element Implementation Element

## FTP Strategies

#### FOUNDATIONAL STRATEGIES

Strategically align investments with goals

Provide sustainable and reliable transportation funding sources

Develop and retain a skilled transportation workforce

#### **KEY STRATEGIES**

Commit to vision zero as our top priority

Identify and mitigate risks to Florida's transportation system

Transform Florida's major transportation corridors and hubs

Strategically complete transportation systems and networks

Expand transportation infostructure

Prioritize mobility for people and freight

Further access to opportunity for those who need it most

Integrate land use & transportation decisions

Develop transportation systems to protect and enhance air quality, water quality and quantity, critical lands, and habitats



## 2021 SIS Policy Plan Update

presented by

Gerald Goosby SIS Planning Manager presented to

FTP/SIS Implementation Committee



Your Florida. Your vision. Your plan.

SIS Policy Plan Elements

**OBJECTIVES** 

**EMPHASIS/FOCUS AREAS** 

POLICIES/STRATEGIES

**IMPLEMENTATION GUIDANCE** 



## SIS Objectives (2016 Policy Plan)



Ensure the efficiency and reliability of multimodal transportation connectivity between Florida's economic regions and between Florida and other states and nations



Expand transportation choices and integrate modes for interregional trips



Provide transportation systems to support Florida as a global hub for trade, tourism, talent, innovation, business, and investment

## Continuing Emphasis Areas (2016 Policy Plan)

Reaffirm statutory intent for interregional, interstate, and international travel

Continue emphasis on largest and most strategic facilities



#### **SAFETY**



#### **RESILIENCE**



**TECHNOLOGY & INNOVATION** 



**URBAN MOBILITY & CONNECTIVITY** 



**RURAL MOBILITY & CONNECTIVITY** 

## SIS Policy Plan Focus Areas

Proposed for 2022 Plan



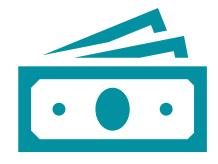
## SIS Policy Questions



**DESIGNATION POLICIES** 

What types of facilities should be part of the SIS?

What types of criteria should be used to identify these facilities?



## NEEDS & PRIORITIZATION POLICIES

What types of investments should be funded by statewide SIS funds?

What factors should be considered in setting priorities?



## PLANNING & COLLABORATION POLICIES

How should FDOT work with partners to accomplish SIS objectives?

### Safety

- Issue
  - Support statewide commitment to Vision/Target Zero



- Emphasis on engineering solutions to avoid lane departure, intersection, bike/ped fatalities
- Safety considerations in planning studies
- Safety criteria for project evaluation in Strategic Investment Tool





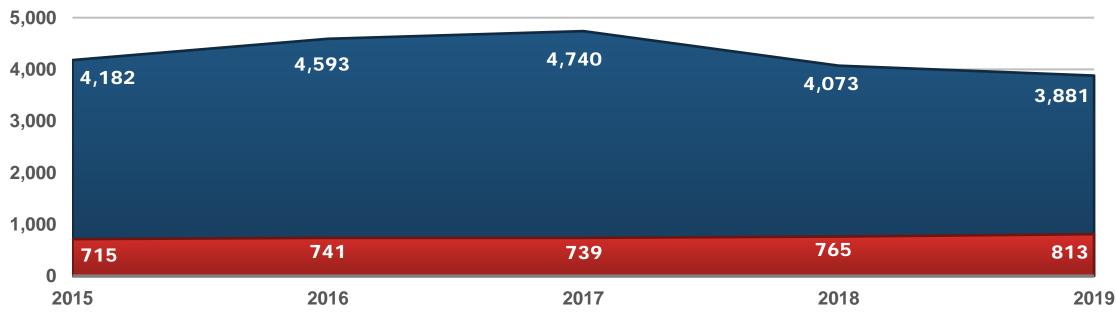






### Safety

#### **Fatalities/Serious Injuries**



Roadway Fatalities (2015-2019 Average)

ALL ROADWAYS 1.43 Fatalities per 100M VMT

1.10 Fatalities per 100M VMT

SIS ONLY



## Safety

commercial motor vehicle fatality rate is 60% HIGHER ON THE SIS

rate of lane departure fatalities is almost

10% HIGHER ON THE SIS

## Safety Potential Policy Changes



No recommended changes



Increase emphasis safety as factor for setting priorities

Increase flexibility for including safety features in SIS capacity projects

Address emphasis areas (lane departure, commercial vehicle, bottlenecks, modal conflicts)

Provide safe alternatives to highways for interregional travel



Support aggressive deployment of in-vehicle and roadside safety technologies

Work with partners to identify targeted strategies for improving safety on SIS facilities



#### Resilience

#### Issue

 Reduce vulnerabilities of SIS infrastructure to risks including extreme weather, sea-level rise, coastal and inland flooding, wildfires, extreme heat

#### Current Policies/Strategies

- SIS Resilience Action Plan (under development)
- Transportation Asset Management Plan
- FHWA Part 667 "double dippers" analysis
- PD&E Manual
- Drainage Manual



### RESILIENCE

Flooding (100-year) SIS Corridors and Hubs

## Resilience Potential Policy Changes



Consider vulnerabilities in SIS community and environmental screening process



Identify resilience strategies as part of capacity needs and projects

Expand SIS funding eligibility for adaptation/retrofit of existing infrastructure

Expand definition of capacity to include increasing redundancy or providing alternatives to mitigate vulnerabilities



Expand collaboration with MPOs,
RPCs, water management districts,
local governments
on resilience strategies

Strengthen coordination with other state agencies (DEO, DEM, DEP) to leverage programs and funding



### Technology & Innovation

#### Issue

Prepare for advances in vehicle and information technologies

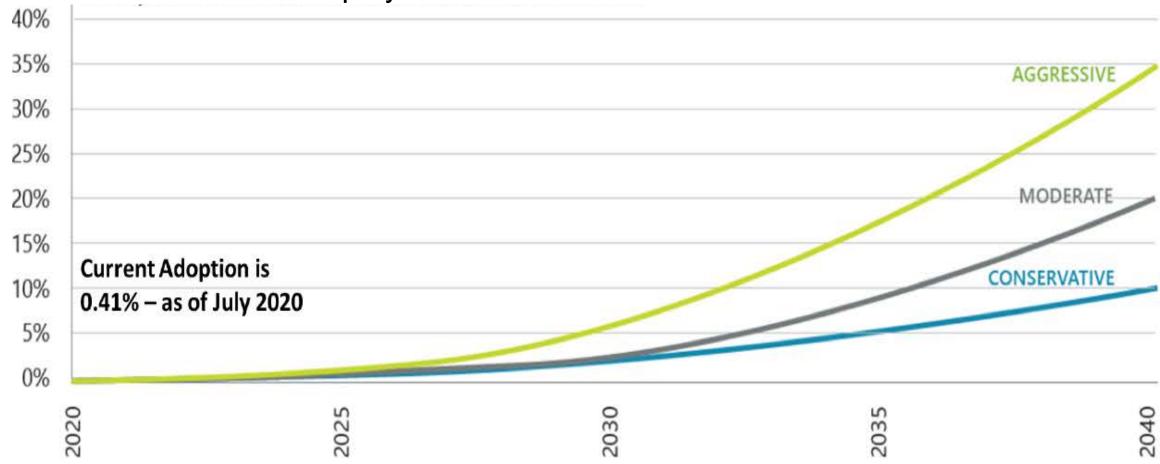
#### Current Policies/Strategies

- Eligibility to use SIS funding for selected infrastructure-based ITS/TSMO solutions
- Preparing the SIS for ACES Study
- EV Infrastructure Master Plan
- CAV Business Plan
- DEO Broadband Strategic Plan



## Technology & Innovation







## Technology & Innovation Potential Policy Changes



No recommended changes



## NEEDS & PRIORITIZATION POLICIES

Redefine SIS capacity projects to include technology solutions for improving efficiency and reliability

Expand SIS funding eligibility to accommodate technology infrastructure (EV charging stations, smart signals, locational reference markers, etc.)

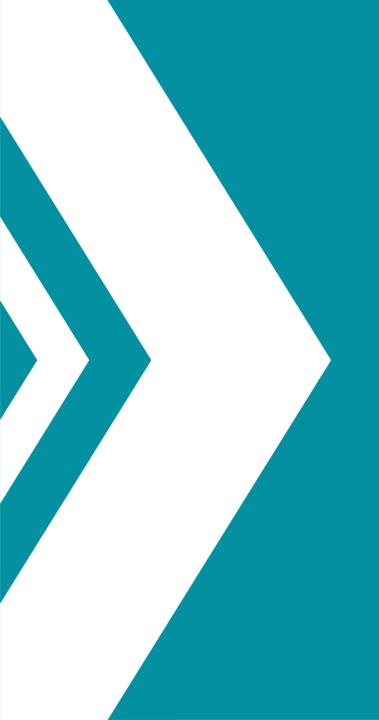
Provide more flexibility for funding emerging mobility solutions



## PLANNING & COLLABORATION POLICIES

Develop technology deployment plan for SIS

Expand partnerships with technology providers, manufacturers, and R&D institutions



## LUNCH BREAK



## WELCOME BACK

## Afternoon Agenda

Time	Topic	Presenter(s)
1:30 pm	Review afternoon agenda	Huiwei Shen, FDOT
1:35 pm	Overview of FTP Implementation Actions for	Dana Reiding, FDOT
	<ul> <li>Transform Florida's major transportation corridors and hubs</li> </ul>	
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3:45 pm	Next Steps	Dana Reiding, FDOT
4:00 pm	Adjourn	



# Overview of FTP Implementation Actions for Mobility and Connectivity

## FTP Strategies

#### FOUNDATIONAL STRATEGIES

Strategically align investments with goals

Provide sustainable and reliable transportation funding sources

Develop and retain a skilled transportation workforce

#### **KEY STRATEGIES**

Commit to vision zero as our top priority

Identify and mitigate risks to Florida's transportation system

Transform Florida's major transportation corridors and hubs

Strategically complete transportation systems and networks

Expand transportation infostructure

Prioritize mobility for people and freight

Further access to opportunity for those who need it most

Integrate land use & transportation decisions

Develop transportation systems to protect and enhance air quality, water quality and quantity, critical lands, and habitats



#### KEY STRATEGIES > TRANSFORM MAJOR CORRIDORS & HUBS

Nearly two decades ago, creation of the Strategic Intermodal System (SIS) focused Florida's transportation investments on the hubs (airports, seaports, spaceports, and rail terminals) and corridors (highway, rail, water, and urban-fixed guideway transit) most important to the state's economy and helped power the state's growth in global trade, logistics, and travel. We must transform these facilities for the next generation. Florida will:

- Combine strategic capacity investments with technology and operations strategies to ensure the connectivity, efficiency, and reliability of the SIS, particularly in congested urban areas.
- Ensure major hubs and corridors meet customer expectations and global or industry standards for condition and quality.
- Transform passenger terminals into mobility hubs with a wide range of modal options and first/last mile connections for Florida's residents and visitors.
- Increase Florida's supply chain efficiency by expanding the capacity of major seaports, air cargo hubs, and truck and rail corridors and developing intermodal logistics centers.
- Develop next-generation transportation corridors that include multiple modes and uses and incorporate emerging technologies such as broadband, electrification, and other alternative fuel infrastructure.
- Enhance capacity for truck parking, rest areas, and staging areas in transportation corridors.
- Provide efficient, reliable travel choices between Florida regions, particularly between urban and rural areas.
- Support the changing mobility and connectivity needs of Florida's 23 major military installations and large network of national defense partners.

#### CENTRAL FLORIDA'S FUTURE TRANSPORTATION SYSTEM

Central Florida is creating the world's only "quintimodal" transportation hub by transforming and linking existing facilities. Cape Canaveral Spaceport and Port Canaveral are expanding into new markets. The Beach Line Expressway is envisioned as a multimodal, multi-use corridor connecting the port to the Orlando International Airport. The airport is completing a new south terminal complex including capacity for multimodal connections to commuter rail and planned intercity passenger rail service to Miami and Tampa. SunRail commuter rail service operates on a rail corridor that previously handled freight. The I-4 Ultimate project is rebuilding 21 miles of Interstate through downtown Orlando including adding four express tolled lanes.



#### KEY STRATEGIES

TRANSFORM MAJOR CORRIDORS & HUBS

COMPLETE TRANSPORTATION NETWORKS

**EXPAND TRANSPORTATION INFOSTRUCTURE** 

#### **OBJECTIVES**

MAINTAIN TRANSPORTATION ASSETS

INCREASE RESILIENCE

MEET CUSTOMER EXPECTATIONS

IMPROVE SYSTEM CONNECTIVITY

#### KEY STRATEGIES > COMPLETE TRANSPORTATION NETWORKS

#### FLORIDA COAST-TO-COAST TRAIL

The Florida Coast-to-Coast Trail (C2C) will create a continuous paved multi-use trail across Florida from the Gulf of Mexico to the Atlantic Ocean, the first state trail of its kind in the United States. Once completed, the 250 mile trail will link communities and trails between St. Petersburg and Titusville, allowing residents and visitors to explore Central Florida by bicycle or foot. This trail is funded, in part, by SUN Trail, in collaboration with many other state, regional, and local partners.



Florida's transportation system is a complex web of modal networks and facilities owned and operated by local, regional, statewide, and private sector partners. Strategic investments are needed to close system gaps, improve connections between modes and systems, and support complete end-to-end trips for both people and freight. Florida will:

- Continue to improve intermodal connections, particularly between SIS rail and highway corridors and major airports, spaceports, seaports, and rail terminals.
- Improve connectivity from major highway and rail corridors to population and economic activity centers, including Florida's 23 major military installations.
- Improve connectivity among local transit systems, between regional and local transit systems, and between transit systems and other modes to support more convenient and efficient trips, including across county lines and between rural and urban areas.
- Expand statewide access to emerging mobility solutions through strategic locations for mobility hubs, micromobility stations, electric vehicle charging stations, and similar infrastructure.
- Connect local street, sidewalk, bicycle, and trail networks to provide more options for local travel.
- Complete and connect statewide, regional, and local trail networks to provide an integrated system of high quality trail corridors for pedestrians and bicyclists.
- Improve connectivity of data, technology, and business processes between transportation modes and systems.



#### KEY STRATEGIES > PRIORITIZE PEOPLE & FREIGHT MOBILITY

Florida's transportation system traditionally has been planned by mode and jurisdiction. Performance and service standards often emphasize improving speeds and traffic flow and reducing congestion. While these are important considerations, we must shift our attention from increasing throughput to increasing mobility for people and freight.

Mobility is about more than efficiency – it's about improving access, convenience, and service for residents, visitors, and businesses. Florida will:

- Integrate multiple modes and systems to support efficient and reliable endto-end mobility choices for Florida residents, businesses, and visitors at local, regional, and statewide levels, including first/last mile options.
- Help local governments rethink how they manage streets, curb, parking, and transit stops to support emerging mobility solutions such as transportation network companies and micromobility providers.
- Adapt supply chains to increased e-commerce and home delivery by strategically locating distribution centers, staging areas, and delivery zones and supporting new delivery options such as unmanned aerial vehicles and robots.
- Improve customer awareness of existing and emerging mobility options, and regularly conduct market research to understand customer needs and preferences.
- Develop and enhance performance measures and design standards to focus on mobility and accessibility, in addition to traditional measures such as vehicle throughput and level of service.
- Identify how the role and function of FDOT, MPOs, and other partners should evolve to help manage mobility and accessibility for all Floridians.

#### **MIAMI-DADE SMART PLAN**

The Miami-Dade Transportation Planning Organization (TPO), Miami-Dade County, FDOT District 6, and other partners are collaborating to develop and implement the Strategic Miami Area Rapid Transit (SMART) Plan. The Plan intends to advance six rapid transit corridors, along with a system of Bus Express Rapid Transit (BERT) service, to improve mobility in Miami-Dade County. The Plan includes demonstration projects to facilitate first/last mile access for customers between transit stations and the ultimate starting and stopping points, including 12 new fixed feeder routes, 11 new on-demand services, and 20 proposed trail connections.



#### KEY STRATEGIES

PRIORITIZE MOBILITY FOR PEOPLE & FREIGHT

**ENHANCE ACCESS TO OPPORTUNITY** 

#### OBJECTIVES

**INCREASE ACCESS TO JOBS & SERVICES** 

**INCREASE RELIABILITY & EFFICIENCY** 

**INCREASE ALTERNATIVES TO SOVs** 

## State, Regional, and Local





## 2021 SIS Policy Plan Update

presented by

Gerald Goosby SIS Planning Manager presented to

FTP/SIS Implementation Committee



Your Florida. Your vision. Your plan.

### Urban Mobility & Connectivity

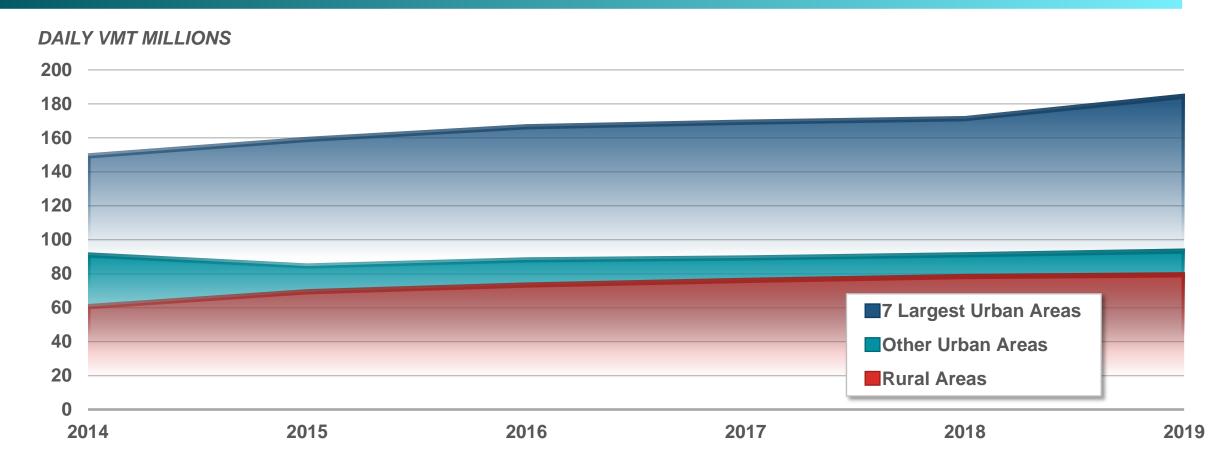
#### Issue

- Impact of urban congestion on efficiency/reliability of SIS for interregional travel
- Limited options for adding capacity to SIS corridors in major urban areas
- Limited modal alternatives in and through many urban areas
- Current Policies/Strategies
  - SIS designation emphasizes statewide and interregional travel
  - SIS funds may be used for improvements to designated facilities only;
     transit/urban arterials generally funded from other programs



## Urban Mobility & Connectivity

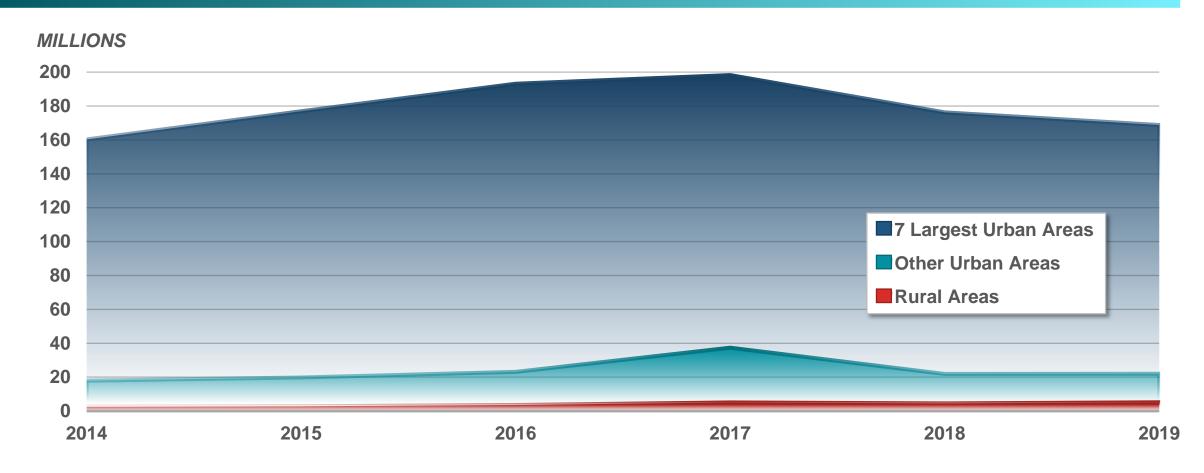
#### VMT GROWTH ON THE SIS STRONGEST IN LARGE URBAN AREAS AND RURAL AREAS





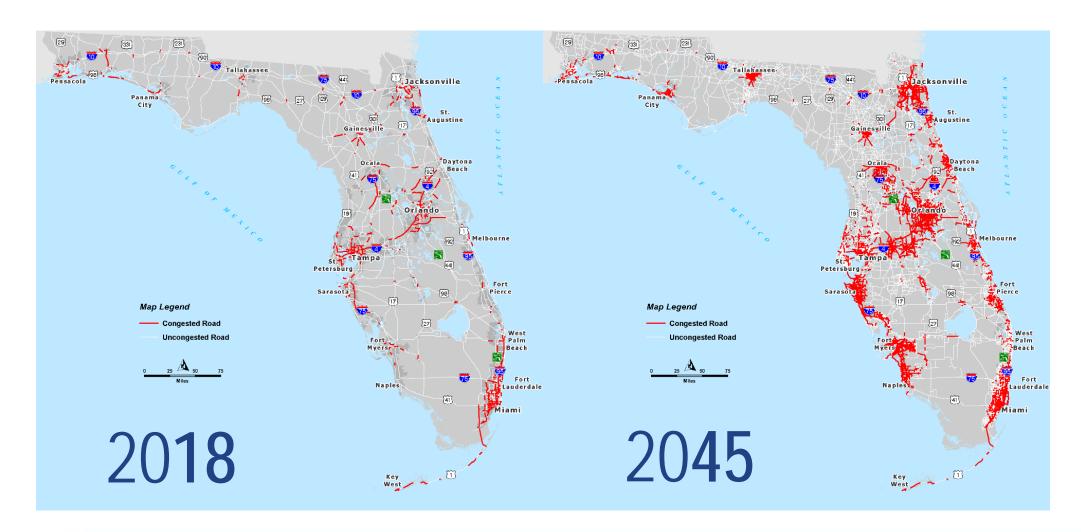
## Urban Mobility & Connectivity

#### SIS DELAY FOCUSED IN LARGE URBAN AREAS





## Projected Growth in Congestion





## Urban Mobility & Connectivity Potential Policy Changes



Reassess definition of interregional; focus on people and freight movement by better identifying which facilities carry significant interregional flows of people and goods



## NEEDS & PRIORITIZATION POLICIES

Redefine capacity projects; include mobility and reliability projects

Prioritize opportunities to improve interregional travel and to provide more options for connectivity between Florida's large urban areas

Provide flexibility for emerging mobility solutions

Provide flexibility for use of SIS funds off-SIS to improve performance of SIS (e.g., transit, parallel arterials)



## PLANNING & COLLABORATION POLICIES

Strengthen collaboration with MPOs, local governments to support end-to-end trips

Strengthen collaboration
with MPOs, local governments
on multimodal corridor plans
addressing SIS and non-SIS facilities

Improve coordination with land use decisions



### Rural Mobility & Connectivity

#### Issue

- Support rural revitalization and economic development
- Facilitate emergency evacuation and response
- Balance rural mobility and connectivity needs with environmental stewardship and community character/visions

#### Current Policies/Strategies

- Consideration of Rural Areas of Opportunity (RAO) in SIS designation and needs assessment; potential waiver of match in RAOs
- Future corridor guiding principles
- Potential changes to Florida Statute regarding controlled access facilities and rural arterials



## Rural Mobility & Connectivity Potential Policy Changes



Align SIS, NHS, freight network, evacuation route, other corridor designations

Reassess SIS highway corridor criteria consistent with statutory emphasis on controlled access standards

Consider context classification in community and environmental screening process



Redefine capacity projects to include rural connectivity and mobility improvements

Improve connectivity to rural activity centers

Expand funding eligibility for broadband/technology solutions for rural connectivity



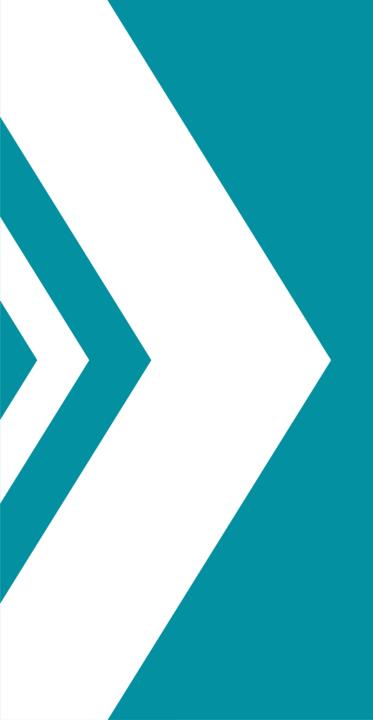
Strengthen rural corridor planning to identify programs of projects for SIS and regional corridors

Strengthen collaboration with local governments on rural connectivity to support economic, community, environmental priorities





## Regional and Local Mobility and Connectivity



## Public Comment

Provide your name and county of residence

Please keep comments to no more than 3 minutes



## Next Steps

### Next Steps

- Committee members
  - Share any additional thoughts on implementation actions for the two topics discussed today
  - Let us know if you would like a briefing or update to your group

#### FDOT

- Follow up on open issues from today
- Begin developing background information on next set of topics for fall meeting



### Next Steps

- FTP/SIS Implementation Committee meeting dates
  - September 2021
    - Discuss remaining FTP implementation actions and Implementation Element layout
    - Review draft SIS Policy Plan recommendations
  - November 2021
    - Review FTP Implementation Element draft
    - Review SIS Policy Plan draft
  - January 2022
    - Finalize FTP Implementation Element
    - Finalize SIS Policy Plan
- Upcoming public and partner involvement activities
  - Targeted outreach through October 2020
  - Public comment period for the SIS Policy Plan in December





## Thank You