Municipal Advisory Committee

July 1, 2021



- I. Call to Order and Pledge of Allegiance
- II. Chairman's Comments
- III. Agenda Review
- IV. Roll Call and Confirmation of Quorum
- V. Public Comments on Action Items
- VI. Agency Reports
- VII. Action Items

VIII. Presentations and Status Reports

- IX. General Information
- X. Upcoming Meetings
- XI. Member Comments
- XII. Public Comments
- XIII. Adjournment



AGENDA



FY 2019-2020 Signal Retiming Travel Time & Delay Study

June/July 2021



Why signal retiming?

Increase traffic flow

Account for changes in traffic patterns

Reduce driver delay, vehicle emissions, and fuel consumption

2019-2020

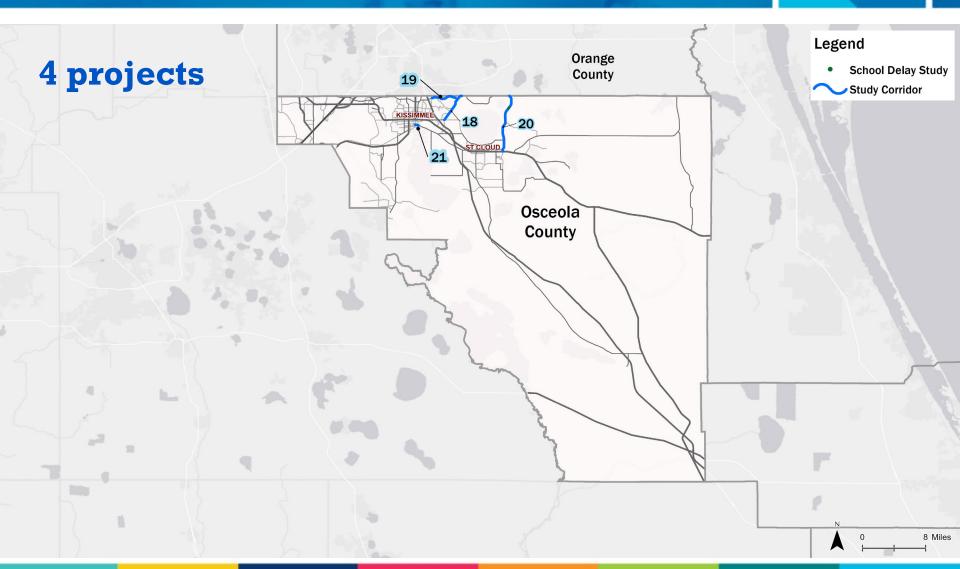
30 corridors

17 independent intersections

14 school intersections

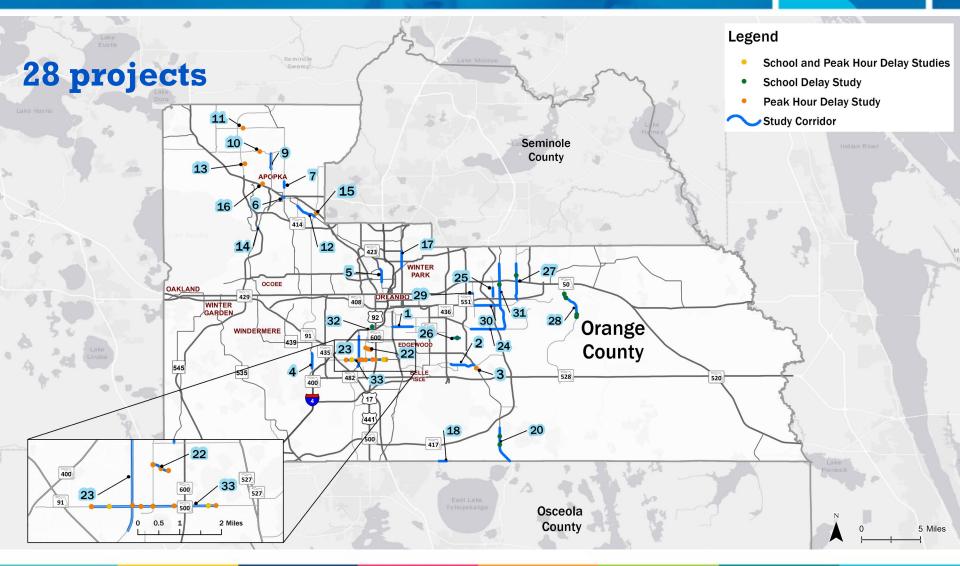
Osceola County





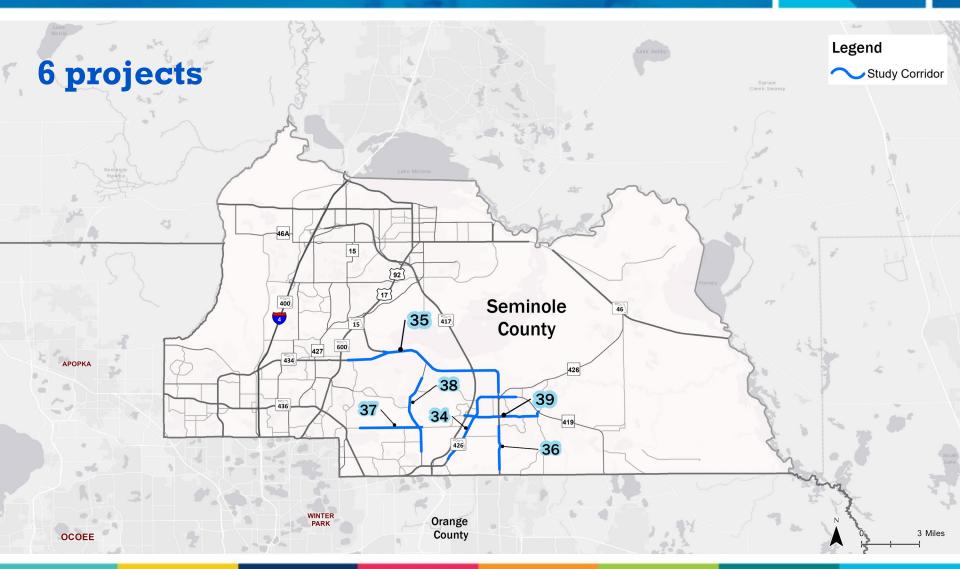
Orange County





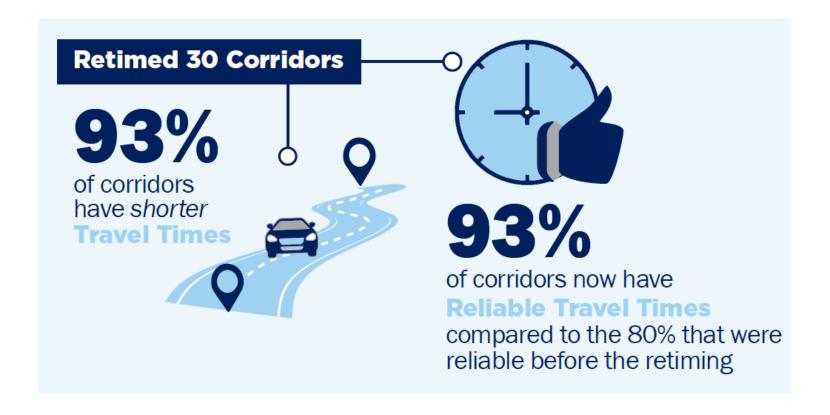
Seminole County





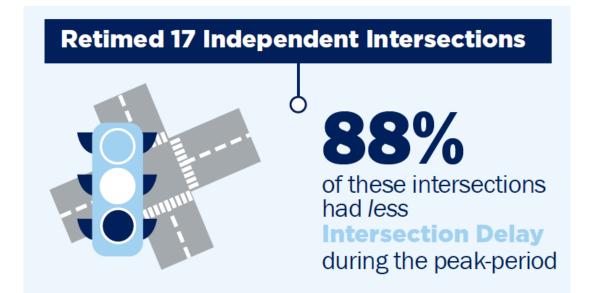
Corridor Travel Time Results





Intersection Delay Results





14 School Intersections

57% of school intersections had less Intersection Delay during school

drop-off/pick-up times

Benefit-Cost Summary

Annual Travel
Time Savings:
541,000 hours

Present Value of 3-Year Benefit: \$27.2 Million

Total Project
Cost:
\$1.3 Million

2019 Program B/C Ratio: 21.7

Travel Time Cost Savings: \$18.29/hour

Historic B/C Ratio



2020: B/C Ratios > 1.0 @ 74%



471,000 gal/yr

Reduced
Vehicle Emissions

4,600

tons CO2/yr

Signal Timing and Safety



Historically Part of Retiming

- Adjusting clearance time
- Adjusting pedestrian timing
- Increasing platooning
- Minimizing diversion

Other Considerations

- Leading Pedestrian Interval
- No Right Turn on Red
- Protected Left Turn
- Reduced Cycle Length

Thank You

MetroPlanOrlando.com | 407-481-5672 250 South Orange Ave., Suite 200, Orlando, FL 32801







I-4 Beyond the Ultimate

MetroPlan Orlando July 7, 2021



Agenda

- i. I-4 BtU Overview
- ii. I-4 Ultimate and Sand Lake Rd Update
- iii. Re-imagining the I-4 corridor
- iv. I-4 BtU South Discussion
 - East of SR 528 to US 192
 - US 192 to US 27

- v. I-4 BtU North Introduction
- vi. Next Steps
- vii. Programming Update
- viii. Questions



I-4 Beyond the Ultimate Overview



Goals of I-4 Beyond the Ultimate

- Increase safety
- Increase mobility/ease congestion
- Increase connectivity among Central Florida communities
- Support the region's economy and lifestyle long into the future





Approved I-4 BtU South Segments



I-4 BtU South Segments Funding Status

Construction Cost	Right of Way
\$765M (FY 32)	\$54M (FY 18-22)
\$1.23B (unfunded)	\$708*M (FY 20-24) (partially funded)
\$995M (unfunded)	\$68M (unfunded)
\$318 M (unfunded)	\$49M (unfunded)
Approx. Total \$3.3B	
	\$765M (FY 32) \$1.23B (unfunded) \$995M (unfunded) \$318 M (unfunded)

^{*}Includes Crossroads and Daryl Carter



Approved I-4 BtU North Segments



I-4 BtU North Segments Funding Status

I-4 BtU Segment	Construction Cost	Right of Way
FPN: 242592-4 Segment 3	\$621M (FY 32)	\$37M (FY 22-26)
FPN: 408464-2 Segment 4	\$572M (unfunded)	\$52M (unfunded)
	Approx. Total \$1.2B	



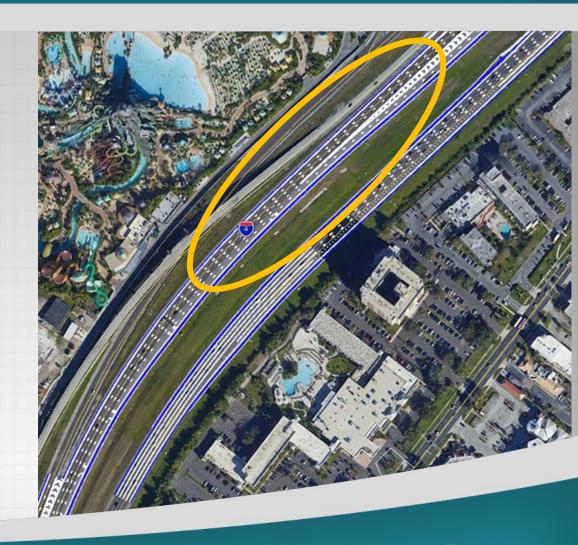
I-4 Ultimate and Sand Lake Rd Update



I-4 WB Express Lane Transition

 I-4 Express Lanes expected to open by end of 2021

 Analysis being done to evaluate westbound managed lanes transition point





Sand Lake Road (SR 482) Interchange

- FPID: 444315-1
- Anticipated letting: Spring 2022
- Design-build
- Estimated construction cost:
 \$208 Million
- Diverging diamond interchange
- Additional capacity to I-4





Re-imagining the I-4 Corridor



Value Engineering Approach

- Revisit typical section
- Capacity via GULs and/or managed lanes
- Access assumptions
- Size and cost of projects





Opportunities

- Updated policies/guidance
 - FDOT Managed Lanes Policy vs. Express Lane Policy
 - Evolved guidance on direct connects and ingress/egress points
- New parameters
 - Options with managed ane separation types
- Industry feedback and lessons learned
 - Size and cost of projects





Evaluation Approach

- Maintain Purpose and Need from I-4 BtU PD&E
- Stay within ROW defined by I-4 BtU PD&E
- Provide similar traffic operations

- Identify cost saving opportunities
- Recognize need for reevaluations
- Engage stakeholders

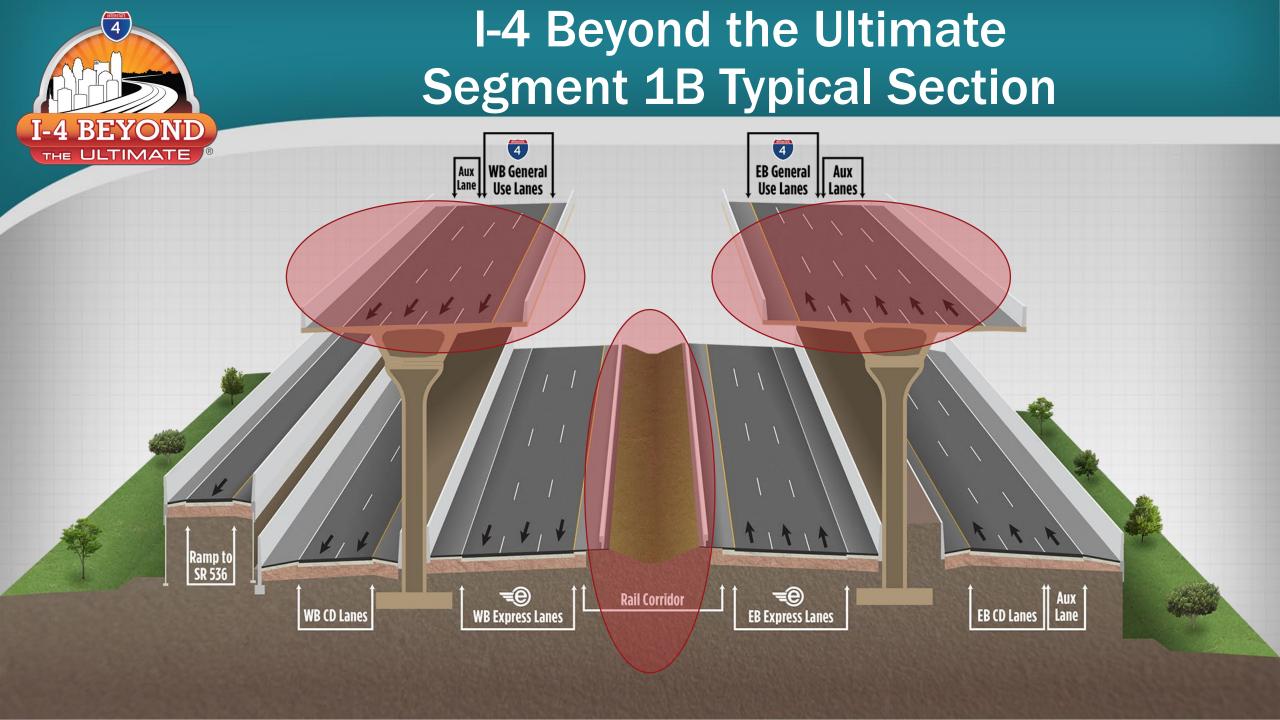




I-4 BtU South: SR 528 to US 192

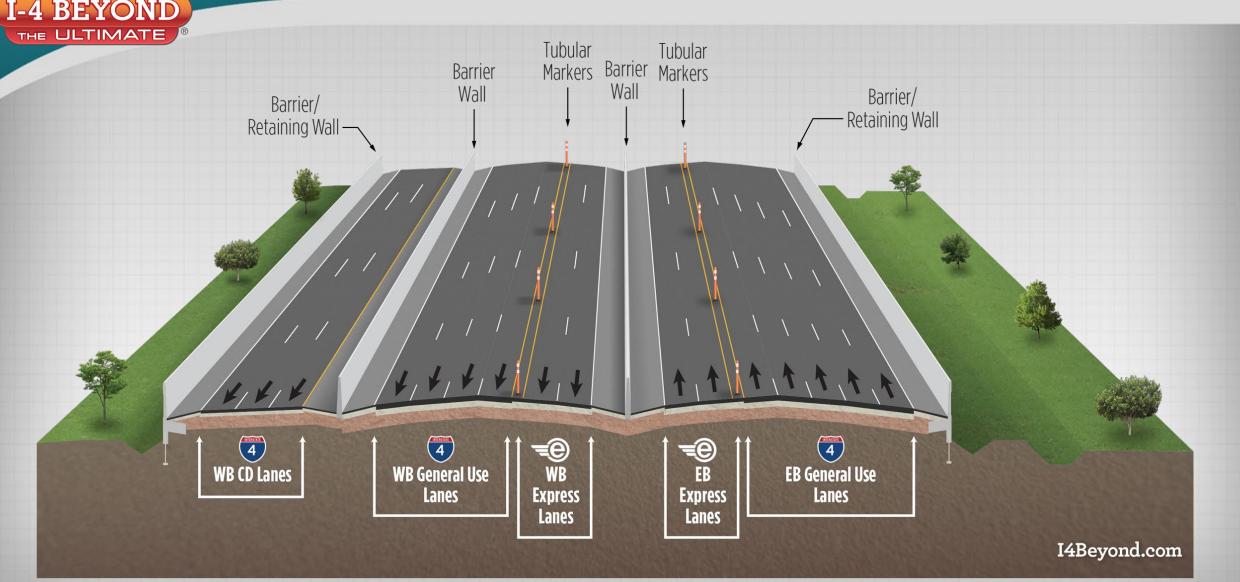
- Key Elements of Value Engineered Concept
 - Mainline at-grade
 - Buffer separation
 - Access points
 - Reconfiguration of interchanges
 - Collector-distributor system







I-4 Beyond the Ultimate South Potential Typical Section





I-4 BtU South: US 192 to US 27

- Currently evaluating alternatives
- Close coordination with Brightline
- Consideration of District 1 and Florida's Turnpike Enterprise projects in area





I-4 BtU North: SR 434 to SR 472

Project Evaluation Underway

- Operational needs
- Available funding





Next Steps

- Continue stakeholder outreach
- Refine concepts based on feedback
- Schedule future discussions
- Adjust approach and implementation plan as funding opportunities arise



Programming Update



Programming Update

- FPID: 444187-1 DDI at CR 532 Interchange with I-4
 - Awarded March 2021, estimate completion fall 2022
- FPID: 444329-1 Add Aux Lanes along I-4 (EB & WB) CR 532 to SR 429
 - Design underway, letting August 2021
- FPID: 443958-1 M&R I-4 from Polk County line to West of SR 417
 - Design underway, letting August 2021
- FPID: 441113-1 Interim Daryl Carter Interchange
 - Anticipated letting January 2022
- FPID: 444315-1 Sand Lake Road (SR 482) Interchange
 - Anticipated letting May 2022





Thanks for joining us!

