

2018-2019 Travel Time & Delay Study

August 2019



Why signal retiming?

Improve traffic flow

Account for changes in traffic patterns

Reduce driver delay, vehicle emissions, and fuel consumption

2018-2019

**29
corridors**

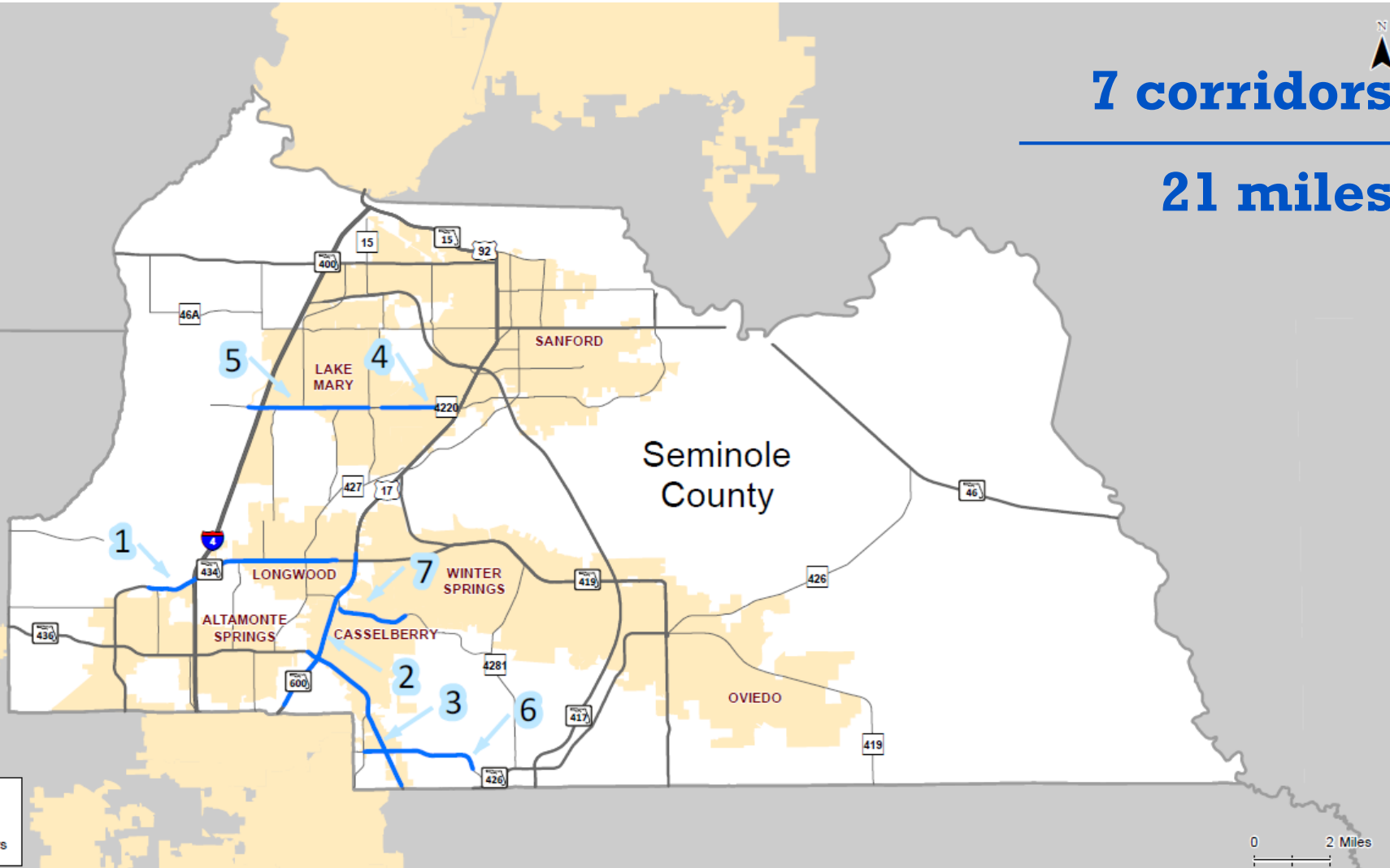
**92
miles**

Seminole County



7 corridors

21 miles

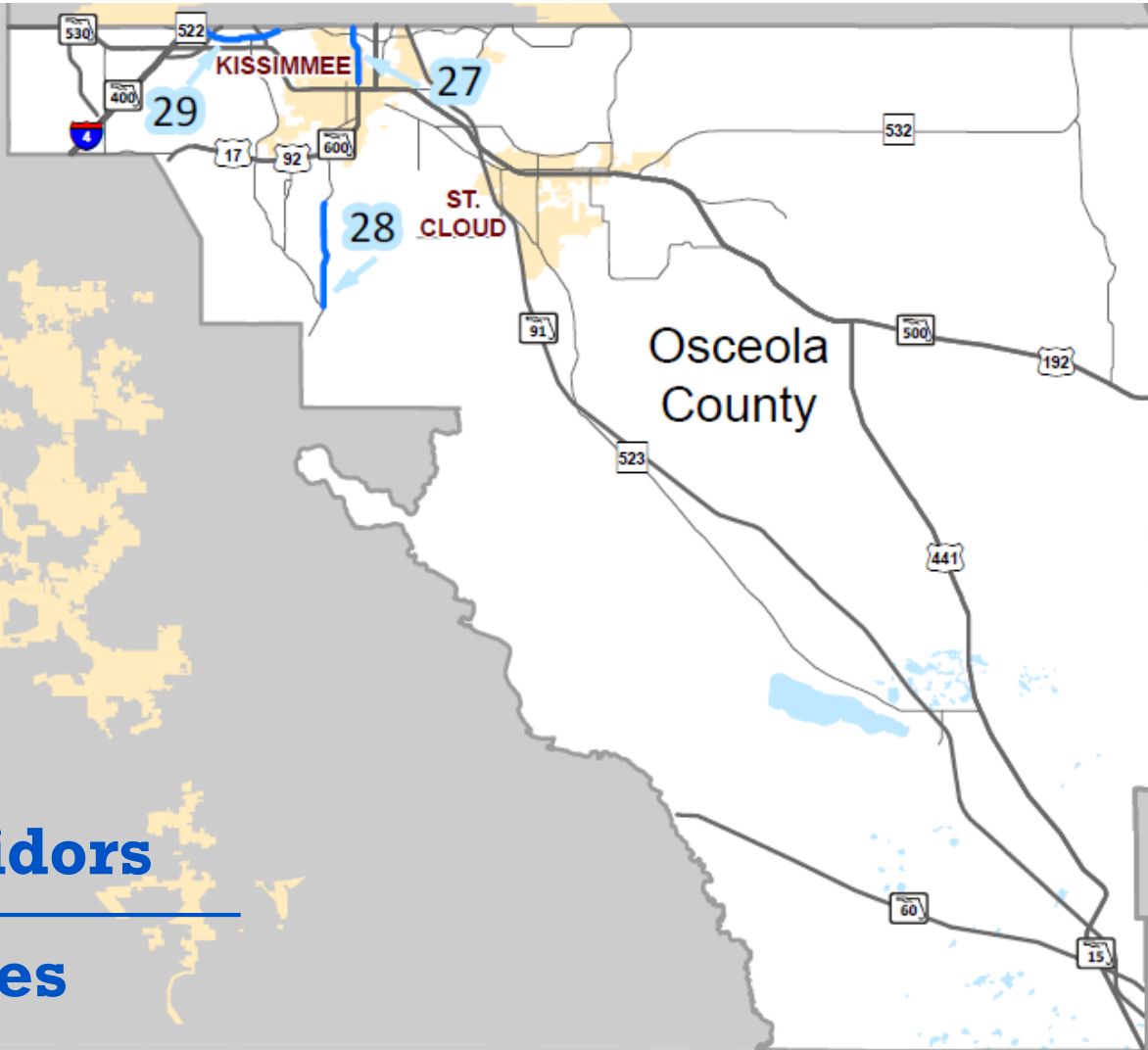


Legend

- Cities
- Study Corridors

0 2 Miles

Osceola County



3 corridors

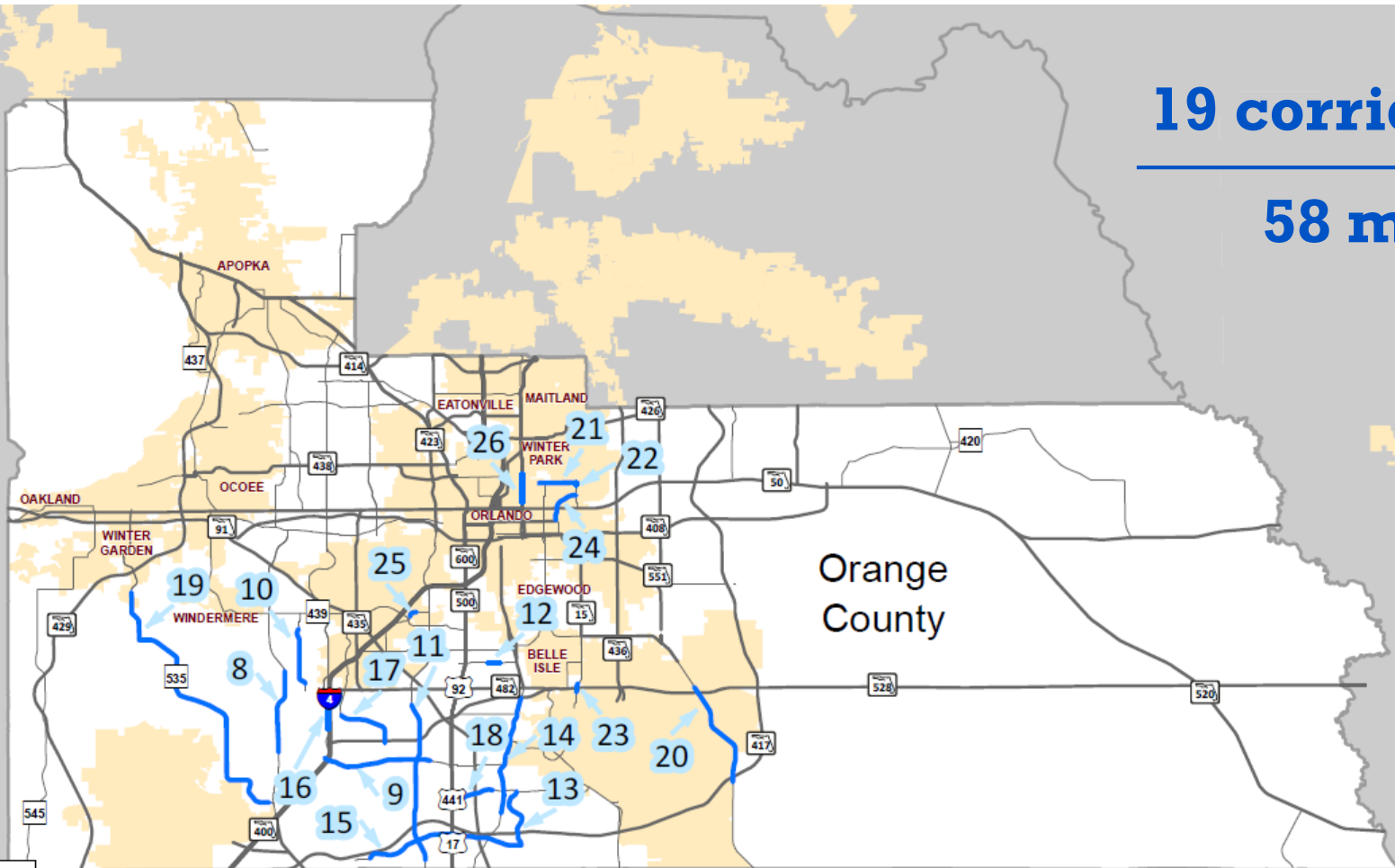
13 miles

Orange County



19 corridors

58 miles



Legend

- Cities
- Study Corridors



Benefit-Cost Summary

Annual Travel
Time Savings:
337,000 hours

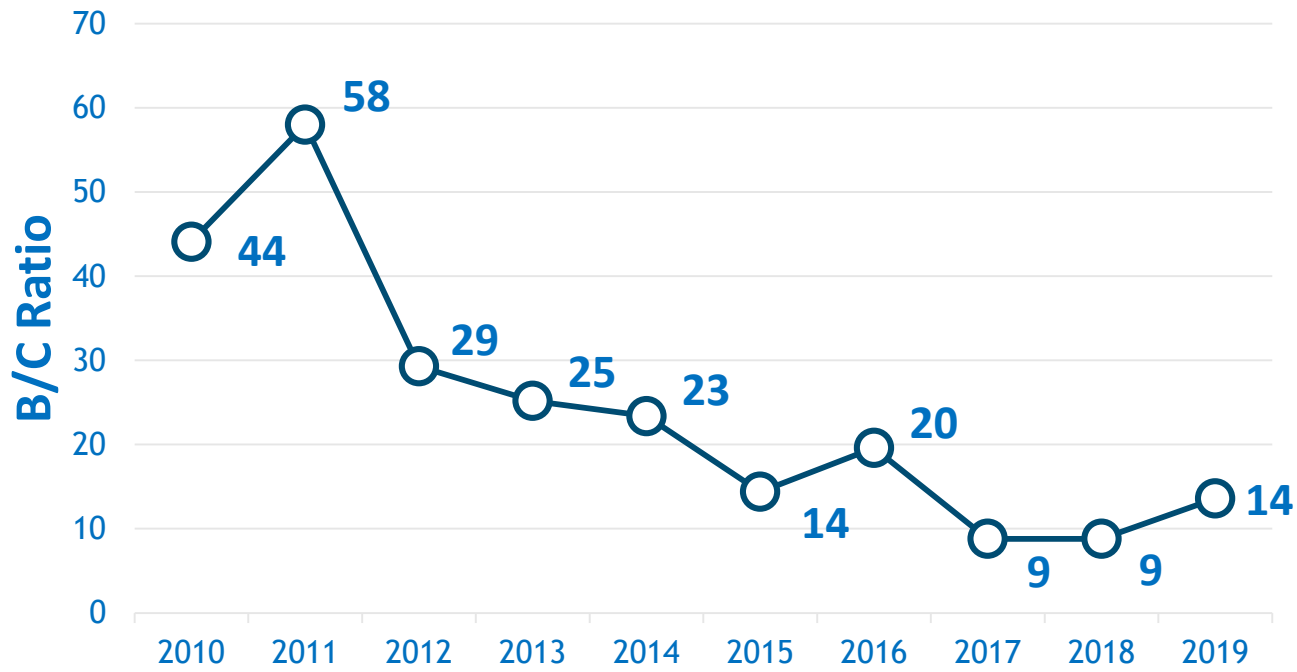
Present Value of
3-Year Benefit:
\$17.2 Million

Total Project
Cost:
\$1.3 Million

2019 Program
B/C Ratio:
13.6

Travel Time Cost Savings: \$17.67/hour for Orlando

(Source: TTI Urban Mobility Report)



Fuel Savings

294,000
gal/yr



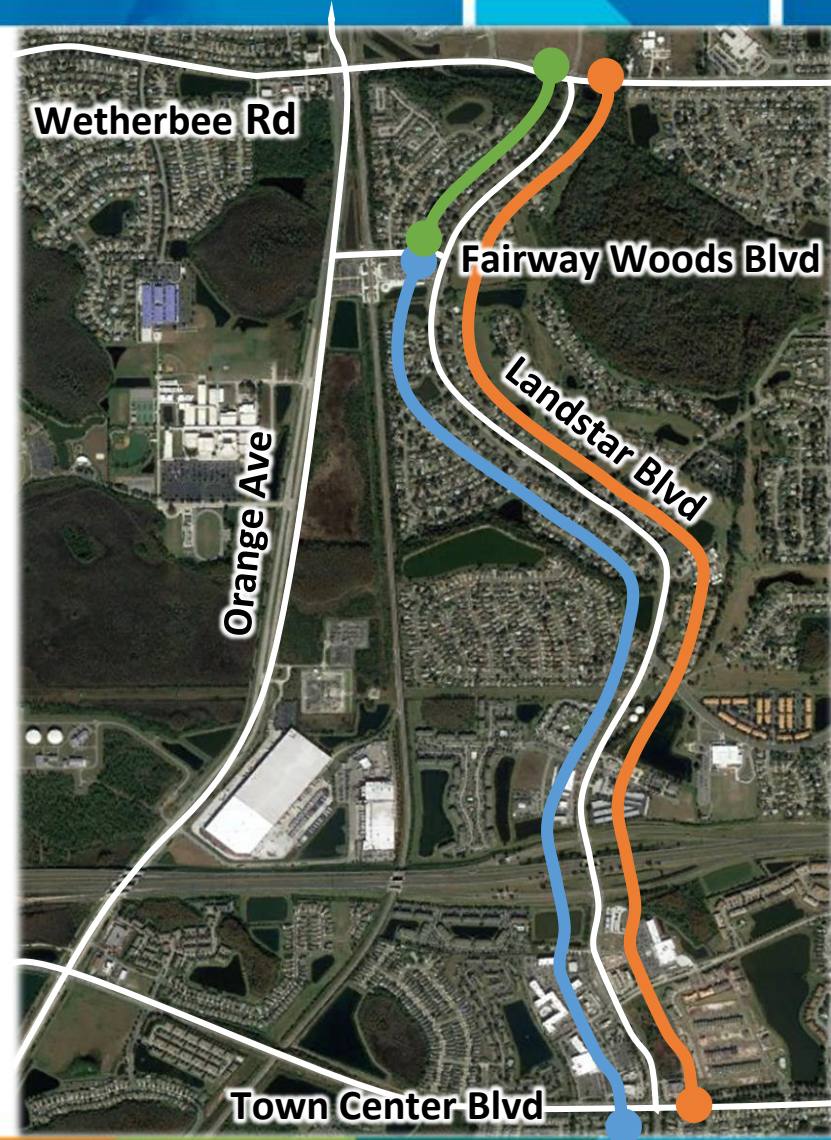
**Reduced
Vehicle Emissions**

2,800
tons CO₂/yr

Other Measures

- B/C Ratios > 1.0 @ 83%
- B/C Ratios from 1.5 to 55.3

Other Goals



- Higher beginning travel time tend to have a greater reduction in travel time.
- More lanes in each direction tend to have a higher B/C ratio
- Travel time reduced by 7% on corridors after retiming

Key Observations



Safety

- Adjusting clearance time
- Adjusting pedestrian timing
- Increasing arrival on green
- Increasing platooning
- Minimizing diversion

Thank You

MetroPlanOrlando.com | 407-481-5672

250 South Orange Ave., Suite 200, Orlando, FL 32801

