



2018 Corridor Retiming Program

WHY SIGNAL RETIMING?

In 2018, MetroPlan Orlando completed retiming projects on 24 corridors throughout the MetroPlan Orlando planning area.

Signal retiming along corridors is a relatively low-cost Transportation Systems Management and Operations (TSMO) strategy that typically results in measureable benefits.



Regular signal retiming helps improve traffic flow and account for changes in traffic patterns.

2018 Retiming Benefits



Reduced Travel Time

155,000
hrs/yr



Fuel Savings

130,000
gal/yr



Reduced Vehicle Emissions

1,200
tons CO₂/yr

KEY FINDINGS FOR 2018 PROGRAM

↓ 67%

Travel Time Reduction

16 of 24 Corridors

Avg 8% Reduction in Travel Time



↑ 33%

Travel Time Increase

8 of 24 Corridors

Avg 6% Increase in Travel Time



Total Program Cost \$840,000 | Total Benefit Value \$7.4 Million Over 3 Years

Overall Benefit Cost (b/c) Ratio 8.8

KEY FINDINGS BY COUNTY

Orange County

63%

Net Positive Benefit
10 of 16 Corridors | b/c 9.0

Osceola County

100%

Net Positive Benefit
2 of 2 Corridors | b/c 49.2

Seminole County

33%

Net Positive Benefit
2 of 6 Corridors | b/c < 0

OBSERVATIONS

- Corridors with higher volumes tend to have a higher b/c ratio
- Corridors with more than one lane in each direction tend to have a higher b/c ratio
- Travel time reduced by 3% on average after retiming
- 7/8 corridors with an increase in travel time still showed a reduction in delay for at least half of the targeted intersection approaches

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