



2020 Corridor Retiming Program

WHY SIGNAL RETIMING

In 2020, MetroPlan Orlando completed the retiming of signals on 38 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 measurable benefits. Regular signal retiming helps improve traffic flow and account for changes in traffic patterns.



2020 Retiming Benefits



Reduced Travel Time / Intersection Delay

541,000
hrs/yr



Fuel Savings

471,000
gal/yr



Reduced Vehicle Emissions

4,600
tons CO2/yr

Total Program Cost \$1.3 million | Total Benefit Value \$27.2 Million Over 3 Years

Overall Benefit Cost (b/c) Ratio **21.7**

Historic Benefit Cost (b/c) Ratios

2019 | 14.1

2018 | 8.8

2017 | 8.8

2020 KEY ACTIVITIES & FINDINGS

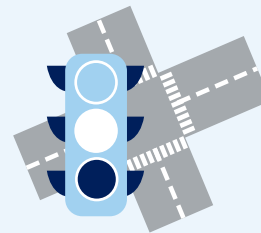
Retimed 30 Corridors

93%
of corridors have shorter **Travel Times**



93%
of corridors now have **Reliable Travel Times** compared to the 80% that were reliable before the retiming

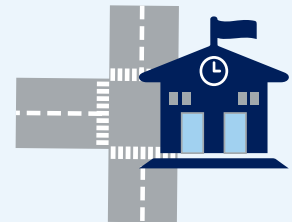
Retimed 17 Independent Intersections



88%
of these intersections had less **Intersection Delay** during the peak-period

Focused on School Drop-Off/ Pick-Up at 14 Intersections

57% of school intersections had less **Intersection Delay** during school drop-off/pick-up times



SUMMARY BY COUNTY

Orange County

89%

Net Positive Benefit
25 of 28 Projects | b/c 21.5

Osceola County

100%

Net Positive Benefit
4 of 4 Projects | b/c 48.6

Seminole County

83%

Net Positive Benefit
5 of 6 Projects | b/c 7.2

metroplan orlando

A REGIONAL TRANSPORTATION PARTNERSHIP