



## IMPROVING MOBILITY FOR ALL TRANSPORTATION SYSTEM USERS

### ABOUT THE PROJECT

The Traffic Signals and Signs Division (TSS) of the Miami-Dade County Department of Transportation and Public Works (DTPW) is installing a new state-of-the-art Advanced Traffic Management System (ATMS) that will better enhance mobility commuters, transit users, pedestrians, and bicyclists throughout Miami-Dade County.

This trailblazing project includes the upgrade of the County's ATMS Central Software, replacement of approximately 3,000 controllers and installation of additional detection systems at signalized intersections.

The upgraded system will provide the platform to be able to implement strategies to enhance mobility for motorized and transit vehicles, pedestrians, and bicyclists to optimize mobility for all transportation system users.



### THE BENEFITS



#### Optimized Operation

High resolution data will capture the location, speed, and turn movement of every vehicle as it approaches and departs an intersection. This data will enable County Engineers to make better informed decisions necessary for system maintenance and operations.



#### Improved Network Performance

The new system analyzes the network of signalized intersections and the demand of all modes of transportation to achieve optimum traffic signal performance.



#### Resource Integration

The integration of multiple transportation data sources into a single platform will optimize mobility for all transportation system users. This capability of the ATMS project will support the development of non-auto modes of transportation which is a key strategic objective of DTPW.



If you have any questions about the project, please contact:  
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**The Traffic Signals and Signs Division of DTPW is responsible for operating and maintaining traffic control devices on the County's arterial street network.**

## WHY IS THIS PROJECT IMPORTANT?

- The project replaces outdated technology by updating the traffic signal infrastructure including new traffic signal controllers and detection devices.
- The County's new traffic management system will comply with industry-wide standard data communications protocol which will allow the County to support smart city initiatives such as two-way communication between vehicles and traffic signals.
- The collection of high-resolution data will position the County for future use of Automated Traffic Signal Performance Measures (ATSPM) which provides County engineers with information needed to proactively manage and operate the traffic signal system.



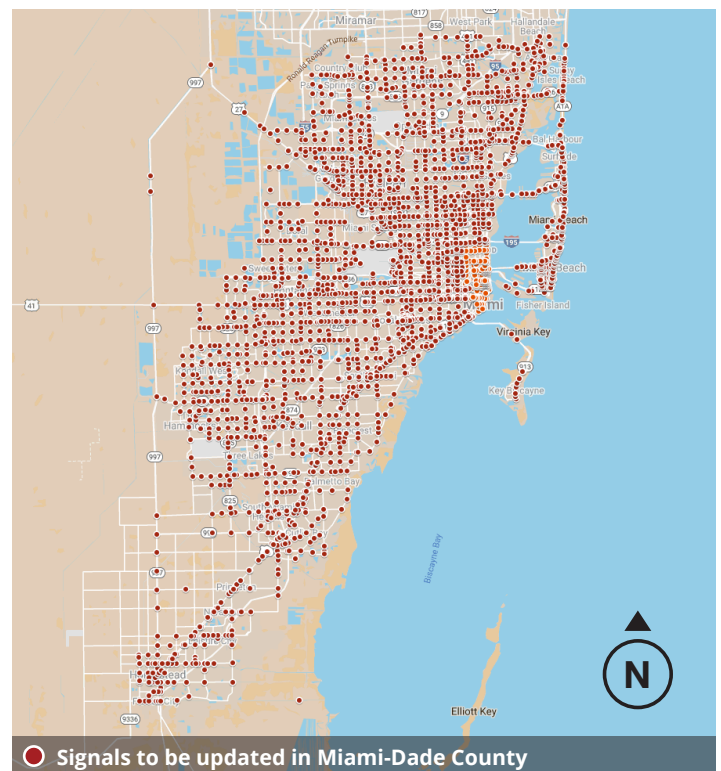
**THIS PROJECT IS PART OF THE COUNTY'S WIDER INITIATIVES WHICH BUILD THE FOUNDATION FOR MOBILITY IMPROVEMENTS FOR SEVERAL YEARS TO COME.**

## SCHEDULE & TASKS

**The ATMS Project was awarded to the contractor, Yunex Traffic, and work began in March 2021. The project scope of work includes the following tasks:**

- Installation of new central software system at the County's Traffic Management Center and deployment of new traffic signal controllers at signalized intersections.
- Design and construction of detection systems at signalized intersections.
- Deployment of Advanced Traffic Engineering Solutions including Adaptive Signal Control Technology (ASCT).

These tasks will occur on a parallel path. Project completion is expected within seven years.



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