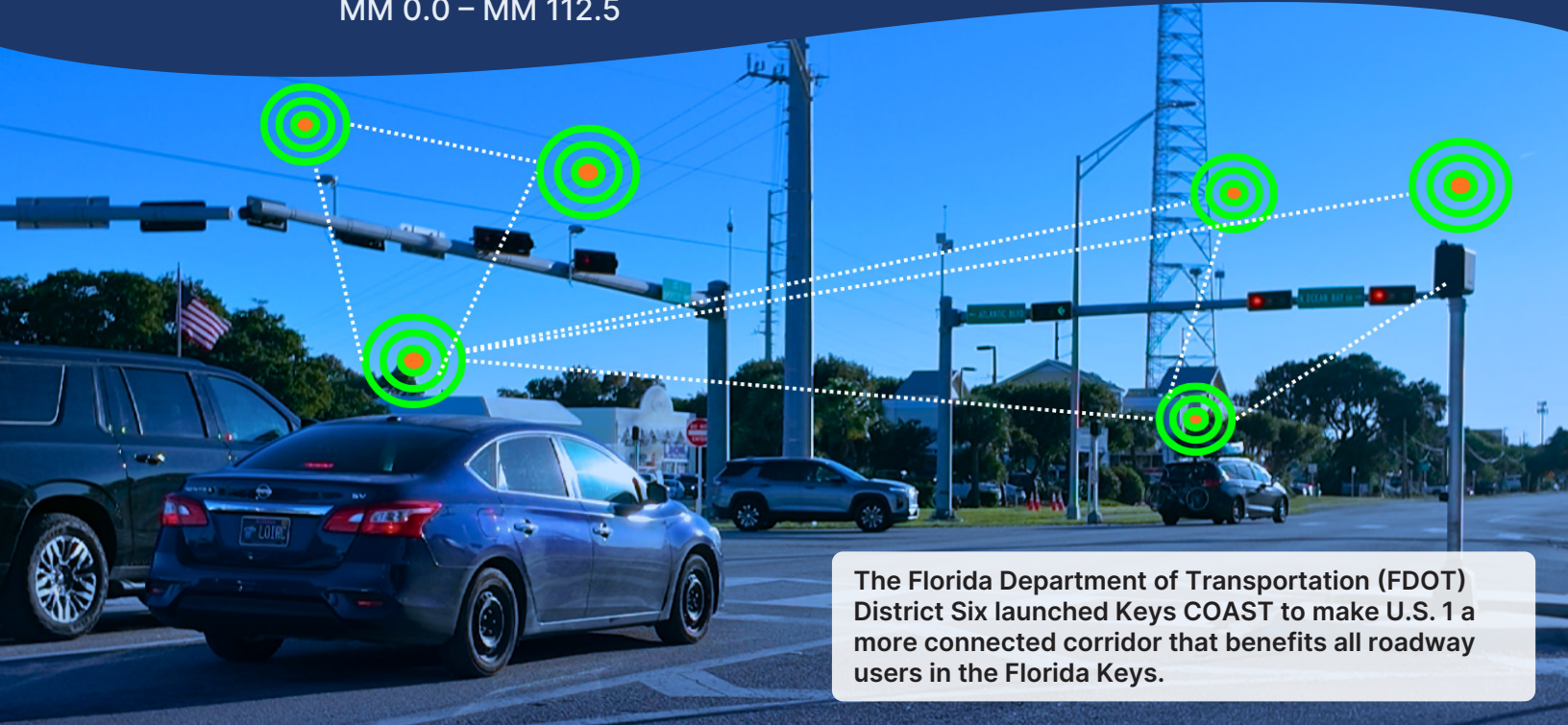




Keys Connecting Overseas to Advance Safe Travel (Keys COAST)



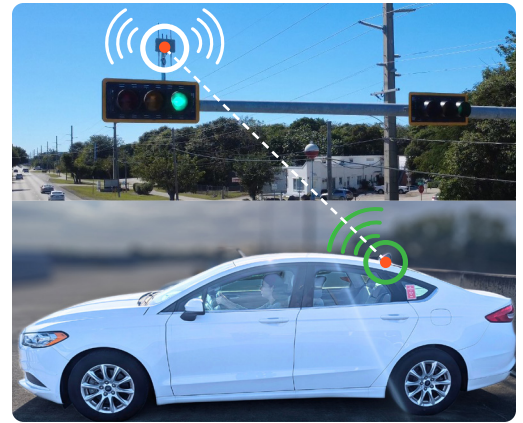
FDOT District Six, Monroe County, State Road 5 (S.R. 5),
U.S. 1 (Overseas Highway)
MM 0.0 – MM 112.5



The Florida Department of Transportation (FDOT) District Six launched Keys COAST to make U.S. 1 a more connected corridor that benefits all roadway users in the Florida Keys.

What is Keys COAST?

The Keys Connecting Overseas to Advance Safe Travel (Keys COAST) project uses connected vehicle technologies to enable communication exchange between traffic signal infrastructure and participating vehicles. Roadside units monitor traffic signal activity and alert drivers about travel conditions that may impact their trip, including traffic signal changes, pedestrian crossings, and drawbridge openings. The project also features signal priority applications for first responders, transit buses, and freight vehicles. An automated traffic signal performance measures (ATSPM) system was deployed to optimize corridor operations. Together, these features are working to provide a safer, more reliable travel experience on U.S. 1 in Monroe County.



Project Features

Keys COAST features five connected vehicle applications that provide drivers with real-time traffic alerts and promote traffic signal priority for emergency, transit, and freight vehicles on the corridor.



Signal Phase & Timing (SPaT) Messaging



Traveler Information Messaging (TIM)



Emergency Vehicle Preemption (EVP)



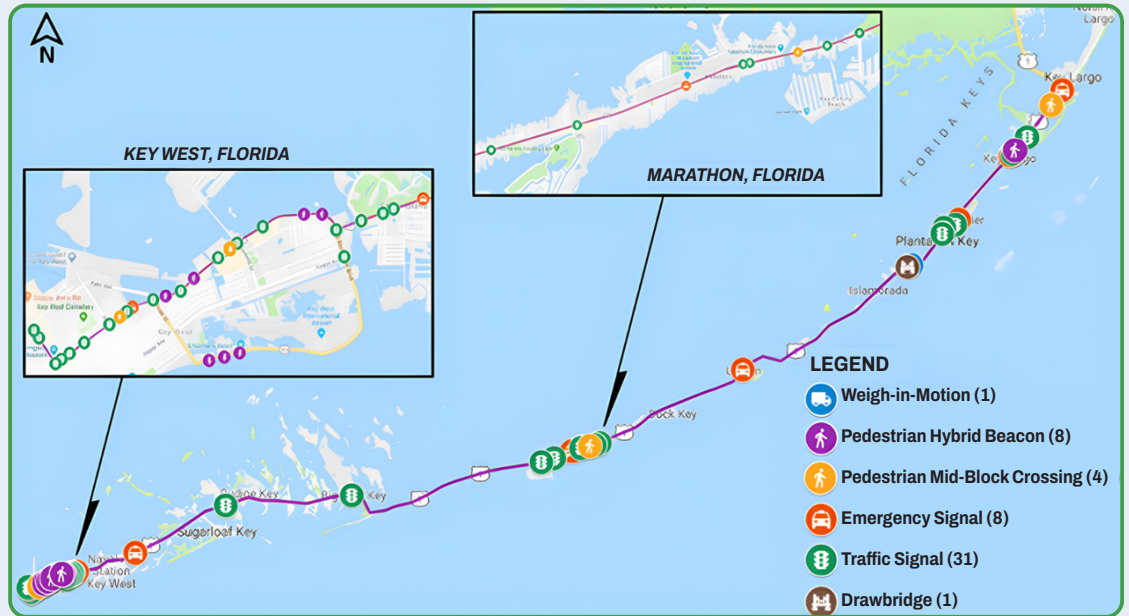
Transit Signal Priority (TSP)



Freight Signal Priority (FSP)

Key Stats

- 112.5** Miles along U.S. 1 in Monroe County
- 166** On-Board Units installed in participating vehicles
- 59** Roadside Units installed on traffic signal infrastructure
- 40** Closed Circuit Television Cameras along the corridor
- ATSPM** Optimizes corridor operations



Project Timeline

- 2019** Planning Started: Project development completed in stages
- 2024** Operations & Maintenance: Project completed and transitioned to O&M
- Future** Future Enhancements: Ongoing technology integration and performance monitoring

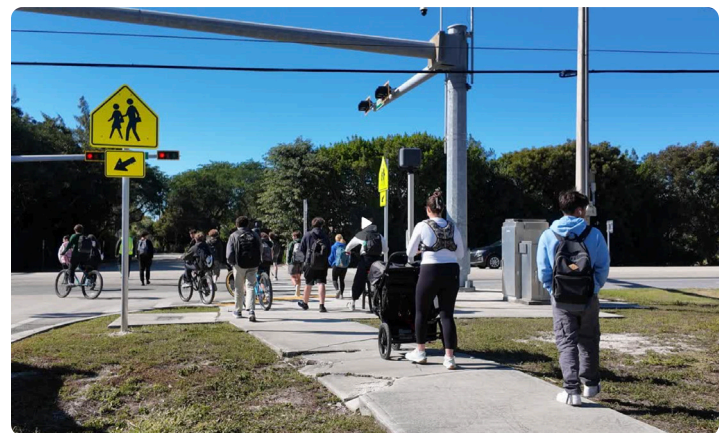
Partner Agencies



FDOT District Six collaborated with local partners to deploy Keys COAST, including:

- Monroe County
- Monroe County Sheriff's Office
- Monroe County Fire Rescue
- Islamorada Village of Islands
- Islamorada Fire Rescue
- City of Key West
- Key West Transit
- Key West Police Department
- Key West Fire Department
- Key Largo Fire Department
- City of Marathon

Benefits to the Public



- **Promotes Safety** – Advanced traffic alerts empower drivers to make safer driving decisions
- **Improves Travel Reliability** – Communication exchange across multiple roadway users promotes a more connected, reliable corridor
- **Supports Emergency and Transit Vehicle Operations** – Traffic signal priority improves emergency response and transit times