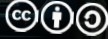


# Dynamic Speed Limit

Control vehicle speeds in response to current highway conditions.



PICTURED: HUNTSVILLE, FLORIDA, 404 WEST FORMULANONE, WIKIMEDIA COMMONS

## HOW WILL THIS HELP?

- ✓ Improve safety by slowing drivers down when the normal speed limit is not appropriate for current traffic conditions.
- ✓ Improve mobility through speed harmonization and alleviation of stop-and-go traffic, in turn reducing fuel consumption and gas emissions.

## HOW DOES IT WORK?

- ✓ Permanent or portable DSL signs, typically installed on freeways and expressways, are set to lower limits in response to weather conditions, incidents, work zones, or recurring congestion on the roadway ahead.
- ✓ Useful tools for system operators to identify conditions that support lowering the speed limit include traffic sensors, traffic surveillance, weather monitoring systems, and telecommunications for traffic monitoring and DSL control.
- ✓ Can display speeds as dynamic speed advisory messages instead of dynamic speed limits, based on coordination with state and local law enforcement agencies.

## TRANSPORTATION NEEDS ADDRESSED

- Capacity and Demand
- Travel Time
- Reliability
- Mobility
- Special Events
- Incident Response

## COST MAGNITUDE



## WHEN TO CONSIDER THIS STRATEGY

- ✓ FREEWAY OR EXPRESSWAY CORRIDORS WITH RECURRING CONGESTION
- ✓ FREEWAY OR EXPRESSWAY CORRIDORS WITH HIGH CRASH RATES
- ✓ BRIDGES PRONE TO IMPACTS FROM SEVERE WEATHER EVENTS

## COMPLIMENTARY STRATEGIES

- ✓ QUEUE WARNING
- ✓ INCIDENT MANAGEMENT
- ✓ INTEGRATED CORRIDOR MANAGEMENT
- ✓ INTEGRATED CORRIDOR MANAGEMENT
- ✓ ROADWAY WEATHER MANAGEMENT
- ✓ TRAVELER INFORMATION
- ✓ SMART WORK ZONE
- ✓ WORK ZONE MANAGEMENT

## CONSIDERATIONS

- + DURING ORIGINAL ROADWAY AND ITS DESIGN, PROVIDE ADEQUATE CONDUIT IN THE MEDIAN BARRIER OR SHOULDER TO ACCOMMODATE FUTURE DSL SIGNAGE.
- + CONSIDER LINE-OF-SIGHT AND HOW DSL SIGNS WILL COMPLETE WITH OTHER SIGNS
- + COORDINATE WITH LAW ENFORCEMENT
- + ADDRESS THE NEED FOR SOFTWARE ENHANCEMENT