

Freeway and Arterial System of Transportation (FAST) Las Vegas, NV

TSM&O Category: [Agency Management and Coordination](#)

Project Team: RTC (Las Vegas MPO), Clark County, NDOT, Cities of Las Vegas, North Las Vegas and Henderson

Problem: Metro areas lack unified system management and operations coordination across multiple jurisdictions.

- Need for consistent TSM&O program implementation
- Competition for TSM&O and ITS funding
- Increased jurisdictional coordination would improve management of regional transportation systems

Solution: Form a cross-agency partnership with strong leadership to make system-wide transportation decisions.

Project Description: The Regional Transportation Commission (RTC) formed FAST to manage the Southern Nevada transportation network.

- FAST is an integrated ITS organization with involvement from all local jurisdictional partners.
- Responsible for both the regional freeway and arterial network.
- FAST monitors traffic through extensive video imaging, CCTV, and inductive loop detection.
- FAST controls traffic through signal systems, ramp meters, DMS and lane use control signs.

Results:

- Coordinated decision-making among jurisdictional partners.
- Rapid build-out of ITS infrastructure throughout the Las Vegas region.
- Decrease in non-recurrent delay
- Improved incident management
- Better informed public on traffic conditions.

Cost: Major costs are system-wide ITS infrastructure, TOC development, with minor costs associated with intra-agency coordination efforts, and performance evaluation work. However, collaboration created efficiencies and reduces duplicative efforts.

What's in it for me?

- Coordinated signals can reduce traffic delay from 15-40% and travel time by up to 25%
- Ramp meters can reduce peak period collisions from 15-50% and increase travel speed (8-16%)
- Traffic incident management through CCTV cameras and video imaging can reduce effects of roadway lane closures from 14-28% and incident clearance times from 37-51%

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Keywords: management, coordination, ITS, freeways, arterials, ramp meters, signals, operations

Quote: "FAST is rooted in a history of collaboration between NDOT and the cities and county in Southern Nevada. From the perspective of the motoring public, they enjoy a seamless delivery of services and the efficiencies of shared resources."

- Mary Martini, NDOT District 1 Engineer

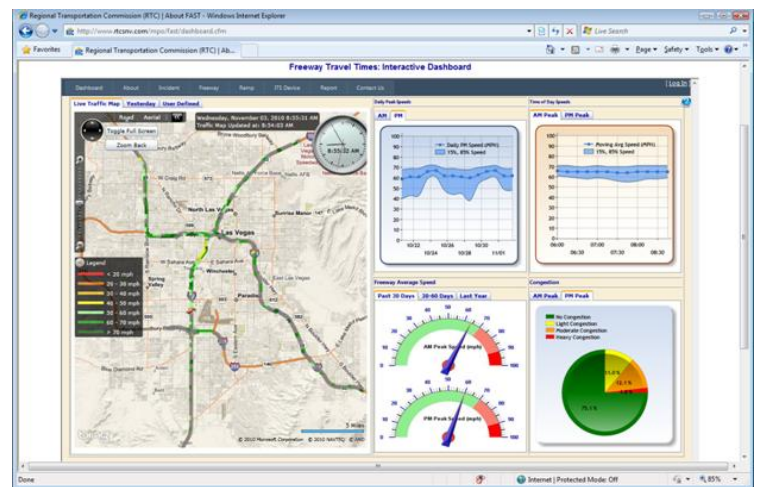
Multimedia:

[FAST website](#)

[Daily PM commute traffic update](#)

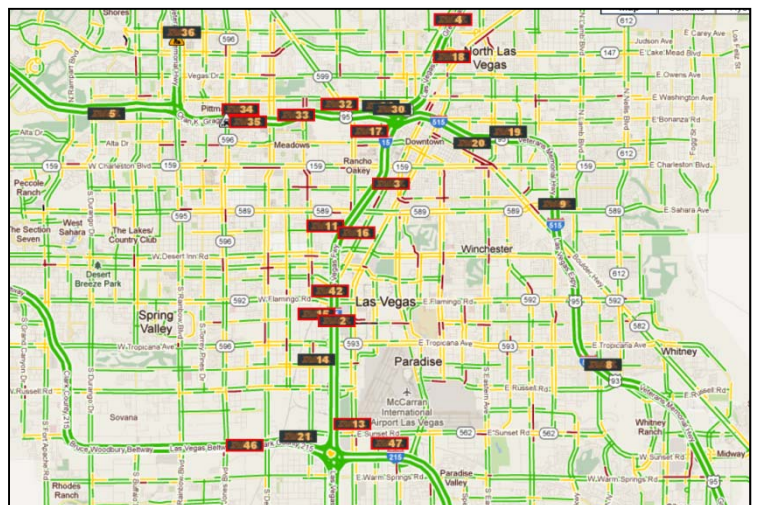
[FAST Frequently Asked Questions](#)

Performance Monitoring and Measuring System Dashboard



Source: Nevada Department of Transportation

Interactive DMS Map



Source: Nevada Department of Transportation