

# **SMART CORRIDORS: 2016 Mobility Bond Project Opportunities**

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# 2016 Mobility Bond Contract With Voters

## Corridor Construction Program priorities:

- Reduce congestion
- Improve level-of-service and reduce delay at intersections for all modes of travel
- Connectivity, and improved effectiveness of transit operations within these corridors and throughout the system



# Traffic Signal Controller Upgrades

## Need:

Replace end-of-life firmware that controls traffic signals



## Benefits:

- **Reduce congestion and improve level-of-service** with efficient and reliable adaptive signal timing and enhanced pedestrian timing options
- **Improve effectiveness of transit operations** with advanced priority and pre-emption capabilities

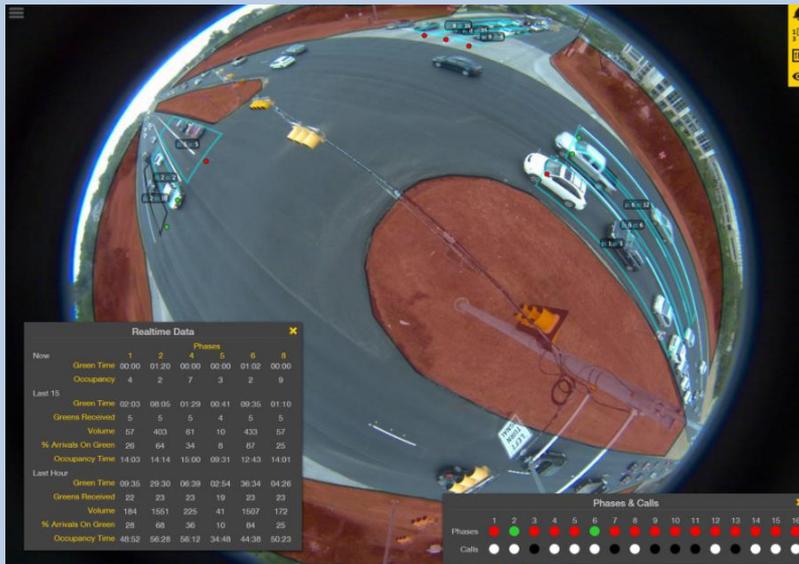
# Aerial Detection Equipment

## Need:

360° cameras that detect traffic from all intersection approaches

## Benefits:

- **Minimize delays** with signal timing based on accurate and reliable detection, and up-to-date traffic counts
- **Maintain LOS** during construction with aerial detection that is not disrupted by lane changes
- **Improve safety** with detection of red light running and wrong way driving



*Currently implemented along Loop 360*

# Video Monitoring Equipment

## Need:

Traffic monitoring cameras at intersections, with pan/tilt/zoom functions

## Benefits:

- **Reduce congestion and delays to all modes** with fast responses to incidents and equipment failures
- **Save tax payer dollars** by diagnosing, and solving, problems remotely and only dispatching technicians when needed



*300+ CCTV cameras monitor CoA roadways*

# Battery Backups for Traffic Signals

## Need:

Purchase and install battery backups for traffic signal controllers

## Benefits:

- Promotes **safety**, and **improves LOS**, during power outages
- Improve traveler experience and reduce citizen complaints



*After installing backups at half of the signals in 2011, all-out signal 3-1-1 calls dropped by more than 50%.*

*Currently implemented at ~50% of CoA signals*

# Other Smart Corridor Projects

- Real-time corridor monitoring at TMC
- Enhanced transit signal priority
- Enhanced emergency vehicle preemption
- Weather monitoring
- Connected vehicle pilots



# Comments/Questions



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