California Transportation Commission
Traffic Light Synchronization Program (TLSP)

City of Los Angeles Update
March 2019
Automated Traffic Surveillance and Control System (ATSAC)

1984 Los Angeles Summer Olympics Traffic Management

LADOT ATSAC Coliseum System

128 Signals in the Coliseum area

2019 LADOT Factoid:
Geographic Area: 465 square miles
Population: 4,030,000
Miles of City Streets: 7,500
No. of Parking Meters: 36,000
No. of Traffic Sensors: 30,000
No. of Traffic Signals: 4,750
No. of Transit Priority Signals: 1,500
No. of Traffic Monitoring Cameras: 620
ATSAC System
Technology Deployment

Total Traffic Signals in TLSP

- 2,182 out of 4,750 citywide (46%)

Technology Components

- Traffic Signal Interconnect
- Traffic Responsive Control
- Changeable Message Signs
Adaptive Traffic Control System (ATCS) Technology Deployment

Total ATCS Traffic Signals in TLSP
- 1,566 out of 4,750 citywide (33%)

Technology Components
- ITS Architecture Upgrade
- Advanced Technologies
- Adaptive Traffic Control
- Changeable Message Signs
- Traffic Monitoring System
## Project Benefits – Travel Times and Emissions Reductions

### Project Specific

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Travel Time</th>
<th>Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reseda</td>
<td>-4%</td>
<td>-3%</td>
</tr>
<tr>
<td>Wilmington</td>
<td>-12%</td>
<td>-15%</td>
</tr>
<tr>
<td>Canoga Park</td>
<td>-12%</td>
<td>-4%</td>
</tr>
<tr>
<td>San Pedro</td>
<td>-9%</td>
<td>-4%</td>
</tr>
<tr>
<td>Harbor Gateway</td>
<td>-4%</td>
<td>-2.7%</td>
</tr>
<tr>
<td>Coliseum</td>
<td>-4%</td>
<td>-8.5%</td>
</tr>
<tr>
<td>Platt Ranch</td>
<td>-5%</td>
<td>-4%</td>
</tr>
<tr>
<td>Echo Park</td>
<td>-2%</td>
<td>-3%</td>
</tr>
<tr>
<td>Santa Monica 1</td>
<td>-5%</td>
<td>-4%</td>
</tr>
<tr>
<td>Santa Monica 2</td>
<td>-8%</td>
<td>-6%</td>
</tr>
<tr>
<td>Wilshire East</td>
<td>-3%</td>
<td>-3%</td>
</tr>
<tr>
<td><strong>Overall:</strong></td>
<td><strong>-6.2%</strong></td>
<td><strong>-5.2%</strong></td>
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</tbody>
</table>

### Overall Program

- **Reduced Travel Times:** -4% to -9%
  (reduction in some areas were as low as -32%)
- **Reduced Emissions:** -3% to -4%

Sources: LADOT ATSAC project studies
2013 Texas A&M Study
Proposed New TLSP Project for Digital Infrastructure and Technology Deployment (2019 and beyond)

New Project Scope
Project will enhance transportation systems, resilient communications network, new software, curb management, and emerging transportation modes.

Technology Components
• Digital Transportation Infrastructure Management System
• Advanced Traffic Signal Equipment
• Advanced Incident Detection and Management System
• Resilient Fiber Optic Communications Network
Proposed New TLSP Project Benefits

• Synergy with current LADOT ATSAC 3.0 Program
• Automated/connected vehicle-ready technology
• Open-source data definition through LA’s new Mobility Data Specification (MDS)
• Digital Services including parking, curb, sidewalk, and airspace management
• Pedestrian safety traffic signal enhancements
• Mobility improvements for all modes (people walking, biking, driving, taking transit or shared vehicles)
• Emission reductions
• Greater reliability and resiliency in emergencies
• Preparation for the 2028 Olympics
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