





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 milesPopulation:4,030,000Miles of City Streets:7,500No. of Parking Meters:36,000No. of Traffic Sensors:30,000No. of Traffic Signals:4,750No. of Traffic Monitoring Cameras:620









ATSAC System Technology Deployment

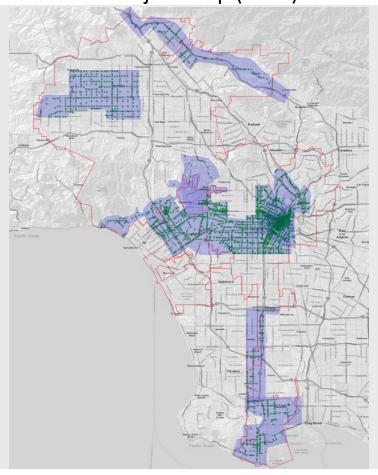
TLSP Project Map (2008)

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

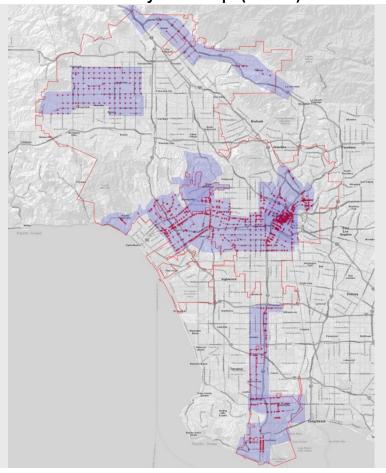
TLSP Project Map (2012)

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

Project Name	Travel Time	Emissions
Reseda	-4%	-3%
Wilmington	-12%	-15%
Canoga Park	-12%	-4%
San Pedro	-9%	-4%
Harbor Gateway	-4%	-2.7%
Coliseum	-4%	-8.5%
Platt Ranch	-5%	-4%
Echo Park	-2%	-3%
Santa Monica 1	-5%	-4%
Santa Monica 2	-8%	-6%
Wilshire East	-3%	-3%
Overall:	-6.2%	-5.2%

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







LA 2028

Contact

Daniel E. Mitchell, P.E., PTOE

Assistant General Manager
Department of Transportation
City of Los Angeles

Dan.Mitchell@lacity.org (213) 972-8432 https://ladot.io



