Corridor Environment
Corridor Boundaries

- Managed Freeway
- Supporting Arterials

Extent of Study Area
Supporting Arterials
Transit Networks
Light-Rail, Transitway and Commuter Rail

- LA Metro Silver Line
- LA Metro Gold Line
- Metrolink San Bernardino
- Gold Line Foothill Extension Phase 2A
- Gold Line Foothill Extension Phase 2B

Late 2015 Planned Opening

Transit Station

- West Covina
- Covina
- Baldwin Park
- El Monte Bus Station
- El Monte Metrolink
- San Dimas (Planned)
- San Dimas
- Covina
- Alameda
- Citrus
- Irwindale
- Duarte
- Monrovia
- Arcadia
- Sierra Madre Villa
- Del Mar
- Fillmore
- Memorial Park
- Mission
- Cal State Los Angeles
- Lake
- Allen
Parking Facilities
Park & Ride Facilities

- **Metro Silver Line**
- **Metro Gold Line**
- **Gold Line Extension Phase 2A**
- **Gold Line Extension Phase 2B**
- **Metrolink San Bernardino**
- **Express Bus Lines**

- **Existing LA Metro Lots**
- **Future LA Metro Lots (late 2015)**
- **Metrolink Lots**
- **Caltrans Lots**
- **Los Angeles County Lots**
- **Other Park-and-Ride Lots**

- **Parking Fee**
- **Paid Reserved Parking**
Parking Occupancy

- **Metro Silver Line**
- **Metro Gold Line**
- **Gold Line Foothill Extension Phase 2A**
- **Gold Line Foothill Extension Phase 2B**
- **Transit Station**
- **Bus Lines**
- **Parking Fee Required**
- **Reservation Required**

### Parking Fee Required
- **100% and Above Occupancy**
- **90-99% Occupancy**
- **80-89% Occupancy**
- **50-79% Occupancy**
- **Less than 50% Occupancy**
- **Existing facility – No Occupancy Data**
- **Planned Park-and-ride Lots**
Freeway Congestion
Active around 5:30 AM

AM Peak

PM Peak
Major Bottlenecks – AM Peak

Data source: 2010 Corridor CSMP
Major Bottlenecks – PM Peak

Data source: 2010 Corridor CSMP
Arterial Congestion
Traffic Volumes – City of Arcadia

Traffic Volume Map

Counts taken February - March 2008
Freeway counts are 2007
All volume counts are bi-directional and are 24-hour counts.
Intersection V/C Ratios

AM Peak

2009/10
2009
2006
2010

Huntington Dr
Las Tunas Dr

Gladstone St

Color = LOS

Los A
Los B
Los C
Los D
Los E
Los F

V/C

1.04

2009/10
2009
2006
2010
Intersection V/C Ratios

PM Peak

2006

2009

2010

2009/10

Color = LOS

LOS A

LOS B

LOS C

LOS D

LOS E

LOS F

V/C

1.04
Traffic Signal Control
Arterials – Traffic Signals
Signal Synchronization

- Arterial segments synchronized through LA County’s Traffic Signal Synchronization Project (TSSP)
Signal Synchronization

- **Caltrans intersections**
  - Typically not directly coordinated with local signals (exception may exist – need to check)
  - Informal coordination as a result of considering traffic arrival patterns from adjacent signals
Transit Signal Priority Corridors

- Foothill Transit 187 (In development)
- Pasadena ARTS Buses (In consideration)
- Metro Rapid 762 (Atlantic Corridor)
## Traffic Management Systems

<table>
<thead>
<tr>
<th>City</th>
<th>System</th>
<th>Kimley-Horn KITS</th>
<th>Siemens i2tms</th>
<th>McCain QuickNet Pro</th>
<th>Econolie Centrac</th>
<th>TransCore Series 2000</th>
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</table>

*System to be selected in the future*
Traffic Signal Controllers

- **Arcadia**
  - Majority of controllers equipped with **LACO-4E** firmware
  - Upgrade to **LACO-4E** in progress along Duarte, Colorado, Foothill
  - **2070** controller with **D4** firmware to be installed at Huntington (entrance to race tracks) due to complexity of intersection

- **LA County**
  - **170E** or **170ATC** controllers with HC-11/QUAD UART processors
  - **LACO-4** firmware deployed using AB3418E protocol

- **Caltrans**
  - 44 intersections using Type **170** controllers
  - 3 intersections using **2070** controllers
    - Foothill/North Baldwin intersection along I-210 Westbound
    - Ramona Blvd ramps on I-605
Traffic Monitoring - Arterials
Arterial Sensors

- Need information
Trip Generators
Event Venues

- Rose Bowl Stadium
- Rose Bowl Aquatic Center
- Pasadena Convention Center
- The Huntington
- Santa Anita Park
- Irwindale Event Center
- Raging Waters Waterpark

Commercial areas (Shopping/offices)
Industrial areas (Manufacturing, warehousing, distribution centers)
Shopping Areas

Centralplex

Commercial areas (Shopping/offices)
Industrial areas (Manufacturing, warehousing, distribution centers)
Industrial Areas

Alhambra Cluster
El Monte Cluster
I-605 Corridor
I-210/I-605 Interchange Cluster
Irwindale Avenue Corridor

Commercial areas (Shopping/offices)
Industrial areas (Manufacturing, warehousing, distribution centers)
Educational Institutions

- Art Center College of Design
  - 1,700 students
- Caltech
  - 2,200 students
- Pasadena City College
  - 29,000 students
- Mount Sierra College
  - 600 students
- Azusa Pacific University
  - 8,200 students
- Citrus College
  - 12,000 students
- Glendale Community College
  - 23,000 students
- Le Cordon Bleu College of Culinary Arts
  - 2,300 students
- Mount San Antonio College
  - 43,000 students
- Cal Poly Pomona
  - 25,000 students

Commercial areas (Shopping/offices)
- Industrial areas (Manufacturing, warehousing, distribution centers)
Hospitals

- Huntington Memorial Hospital: 558 beds
- Methodist Hospital: 395 beds
- City of Hope Medical Center: 185 beds
- Foothill Presbyterian Hospital: 105 beds
- San Gabriel Valley Medical Center: 269 beds
- Kaiser Permanente Medical Center: 254 beds
- Citrus Valley Medical Center: 518 beds
- Alhambra Hospital Medical Center: 144 beds

Commercial areas (Shopping/offices)
Industrial areas (Manufacturing, warehousing, distribution centers)
Elementary/Middle/High Schools
Travel Demand
Travel Demand Profile

- Travel demand analysis (AM Peak)
  - Based on Caltrans version of SCAG’s 2000 travel demand model
  - Trips with portion of travel within I-210 corridor area

<table>
<thead>
<tr>
<th></th>
<th>I-210</th>
<th>Southern LA</th>
<th>Northern LA</th>
<th>Orange</th>
<th>Riverside</th>
<th>San Bernadino</th>
<th>Ventura</th>
<th>Outside Zone</th>
<th>Total Origin</th>
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<tbody>
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<td>49,842</td>
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<td>0</td>
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<td>85</td>
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## Travel Demand Profile

- **Travel demand analysis (PM Peak)**
  - Based on Caltrans version of SCAG’s 2000 travel demand model
  - Trips with portion of travel within I-210 corridor area

### Table: Travel Demand Profile

<table>
<thead>
<tr>
<th></th>
<th>I-210</th>
<th>Southern LA</th>
<th>Northern LA</th>
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<th>Riverside</th>
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<tr>
<td>I-210</td>
<td>122,552</td>
<td>58,306</td>
<td>10,380</td>
<td>4,747</td>
<td>2,271</td>
<td>11,035</td>
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<td>13,651</td>
<td>3,272</td>
<td>2,557</td>
<td>326,653</td>
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*Source: I-210 CSMP Report (2010)*
Travel Demand Profile

- Travel demand 52% greater during PM peak
- 85-87% of trip originating or terminating in LA County
  - 38-39% travel within I-210 corridor
  - 41% travel to/from Southern LA County
  - 7% travel to/from other sections of LA County
OD Modeling
Origin-Destination Zones

- Modeling based on Traffic Analysis Zone (TAZ) used by the Southern California Association of Governments (SCAG)

Origin/Destination Nodes
Traffic Safety
## General Statistics

### Weekdays

*All Incident Types, Jan 2011 – Dec 2011*

<table>
<thead>
<tr>
<th>Corridor Section</th>
<th>Segment</th>
<th>Mileposts</th>
<th>Length</th>
<th>Number of Incidents</th>
<th>VMT</th>
<th>Incidents/Day</th>
<th>Incidents/million VMT</th>
<th>Number of Incidents</th>
<th>VMT</th>
<th>Incidents/day</th>
<th>Incidents/million VMT</th>
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<td>I-5 to SR-134</td>
<td>0.0 – 25.0</td>
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<td>1,835</td>
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## General Statistics

### Weekends and holidays

**All Incident Types, Jan 2011 – Dec 2011**

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Note: Mileposts are given in increments of 25.0 miles.
Incident Locations

- Number of incidents by location for 2011
  - All types of incidents
  - Based on CHP records

Source: PeMS (CHP Incidents)
Event Duration

- Distribution of 2011 incident durations based on CHP records

Graph showing the distribution of incident durations for I-210 West and I-210 East, with bars indicating the number of incidents for different duration ranges (0-15, 15-30, 30-60, 45-60, 60-75, 75-90, 90-105, 105-120, >120 minutes) and color-coded for Weekends & Holidays and Weekdays.

Source: PeMS (CHP Incidents)
Injury/Fatal Accidents – Types

Type of collisions along I-210 (SWITRS database, 2011)

- Rear End
- Hit Object
- Sideswipe
- Broadside
- Overturned
- Head-On
- Vehicle/Pedestrian
- Other

Number of Incidents

373 Incidents

Source: SWITRS
Injury/Fatal Accidents – Causes

- Primary Collision Factors (SWITRS database, 2011)

<table>
<thead>
<tr>
<th>Primary Collision Factor</th>
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<td>Unsafe Speed</td>
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<td>Unsafe Lane Change</td>
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<td>Improper Turning</td>
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<td>Driving Under the Influence</td>
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<td>Other Than Driver</td>
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<td>Automobile Right of Way</td>
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<tr>
<td>Unknown</td>
<td>1</td>
</tr>
<tr>
<td>Traffic Signals and Signs</td>
<td>3</td>
</tr>
<tr>
<td>Following Too Closely</td>
<td>0</td>
</tr>
<tr>
<td>Unsafe Starting or Backing</td>
<td>1</td>
</tr>
<tr>
<td>Pedestrian Right of Way</td>
<td>1</td>
</tr>
<tr>
<td>Improper Passing</td>
<td>1</td>
</tr>
<tr>
<td>Pedestrian Violation</td>
<td>0</td>
</tr>
<tr>
<td>Wrong Side of Road</td>
<td>0</td>
</tr>
</tbody>
</table>

373 Incidents

Source: SWITRS
Injury/Fatal Accidents – Spatial Distribution

TIMS Data
Jan-Dec 2011
Traveler Information Systems
Service operated by the Los Angeles County Service Authority for Freeway Emergencies (LA SAFE) with
- LA Metro
- Orange County Transportation Authority
- Ventura County Transportation Commission,
- California Highway Patrol
- Caltrans Districts 7, 8 and 12

Information provided
- Real-time traffic speeds
- Lane closures, construction zones
- Incidents and Sigalerts
- Access to live video feeds from CCTV cameras operated by Caltrans
- Bus and train schedules from all regional public transit agencies
- Transit trip planner
- Information about toll roads, carpool lanes, park-and-ride facilities
- Information on how to obtain roadside assistance
Blue Commute

- Mobile application developed by Iteris in partnership with LA County DPW

- Information provided
  - Congestion information on freeways and arterial roads
  - Speed and travel times along selected routes
  - Incident notices and construction events along identified routes
  - Schedule notices
  - Fastest route from point A to point B by calling the automated phone system.
  - Messages displayed on changeable message signs
  - Access to video feeds from CCTV cameras operated by Caltrans
  - Call-in service
Data Exchange Systems
Information Exchange Network (IEN)

- Coordinated communication network enabling participants to share traffic signal information, and eventually, control.
- Designed to collect second-by-second data.
- Operational since 2002.
Information Exchange Network (IEN)

Cities/agencies connected to IEN (as of 09/2013)

- Caltrans
- Pasadena
- Sierra Madre
- Monrovia
- Bradbury
- Azusa
- Covina
- San Dimas
- Irwindale
- Monrovia
- Pasadena
- San Marino
- South Pasadena
- Alhambra
- Rosemead
- El Monte
- Baldwin Park
- West Covina
- LA County
- East Pasadena
- East San Gabriel
- LA County
- Temple City
- Temple City
- North El Monte
- LA County
- LA County
- Mayflower Village
- Irwindale
- Glendora
- LA County
- La County
- Citrus
- Vincent
- Covina
- San Dimas
- West Covina
- 10
- 57
- 210
- 134
- 110
- 710
Information Exchange Network (IEN)

- Traffic signal control system interfaces
  - LADOT traffic signal control system
  - TransCore Series 2000
  - TransCore TransSuite TCS
  - Siemens i2TMS
  - McCain QuicNet
  - Kimley Horn KITS
  - Econolite Centracs

- Freeway data interfaces \((\text{since September 2010})\)
  - Pulls data from RIITS and PeMS into the IEN
  - Allows the IEN to report freeway congestion status, incidents, and lane closures to IEN users
IEN Web Server

- XML-based web service to provide summary intersection and arterial detector data to authorized external systems.
- Not currently accessible from the Internet
Regional Integration of ITS (RIITS)

- Platform supporting real-time information exchange among freeway, traffic, transit and emergency service agencies

- Participating agencies
  - LA Metro, bus and rail operations
  - LADOT
  - Caltrans, Districts 7, 8 and 12
  - California Highway Patrol
  - Long Beach Transit
  - Foothill Transit

- Currently main provider of information to Southern California’s 511 system
Regional Integration of ITS (RIITS)

- **Partnering agencies → Full data access**
  - Traffic detector data
  - Freeway travel time data
  - CMS data
  - CCTV videos
  - Arterial signal timings
  - Incident reports from CHP
  - Events and lane closure data
  - Transit vehicle location and route data

- **Information providers → Limited access**
  - Freeway congestion and travel time data
  - CCTV video snapshots
  - Changeable message sign content