

I-210 Connected Corridors Pilot Presentation

Metro Pre-Board Meeting
May 14, 2015

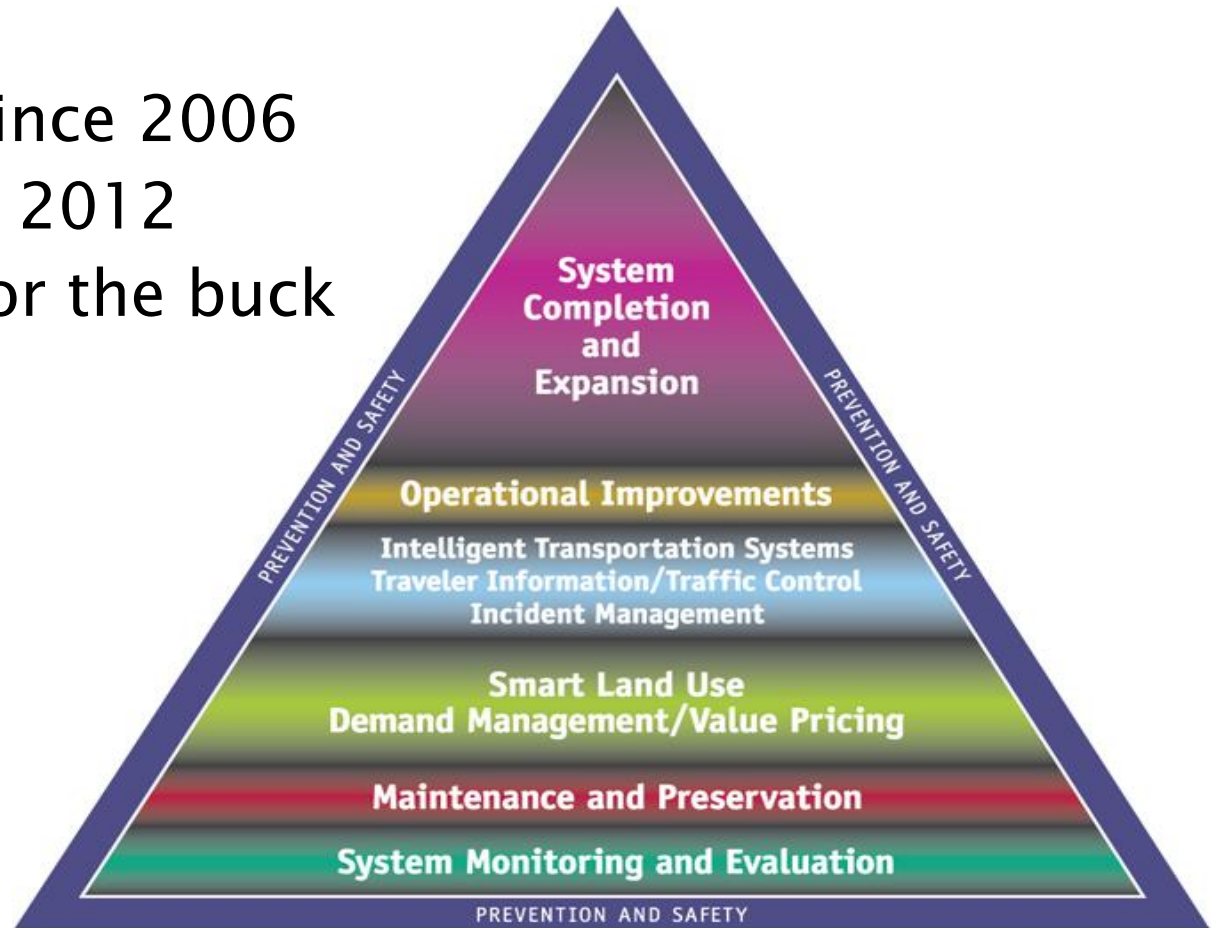


Agenda

- ▶ System Management Model
- ▶ Connected Corridors Pilot on I-210
- ▶ Reorganizing for Corridor Management

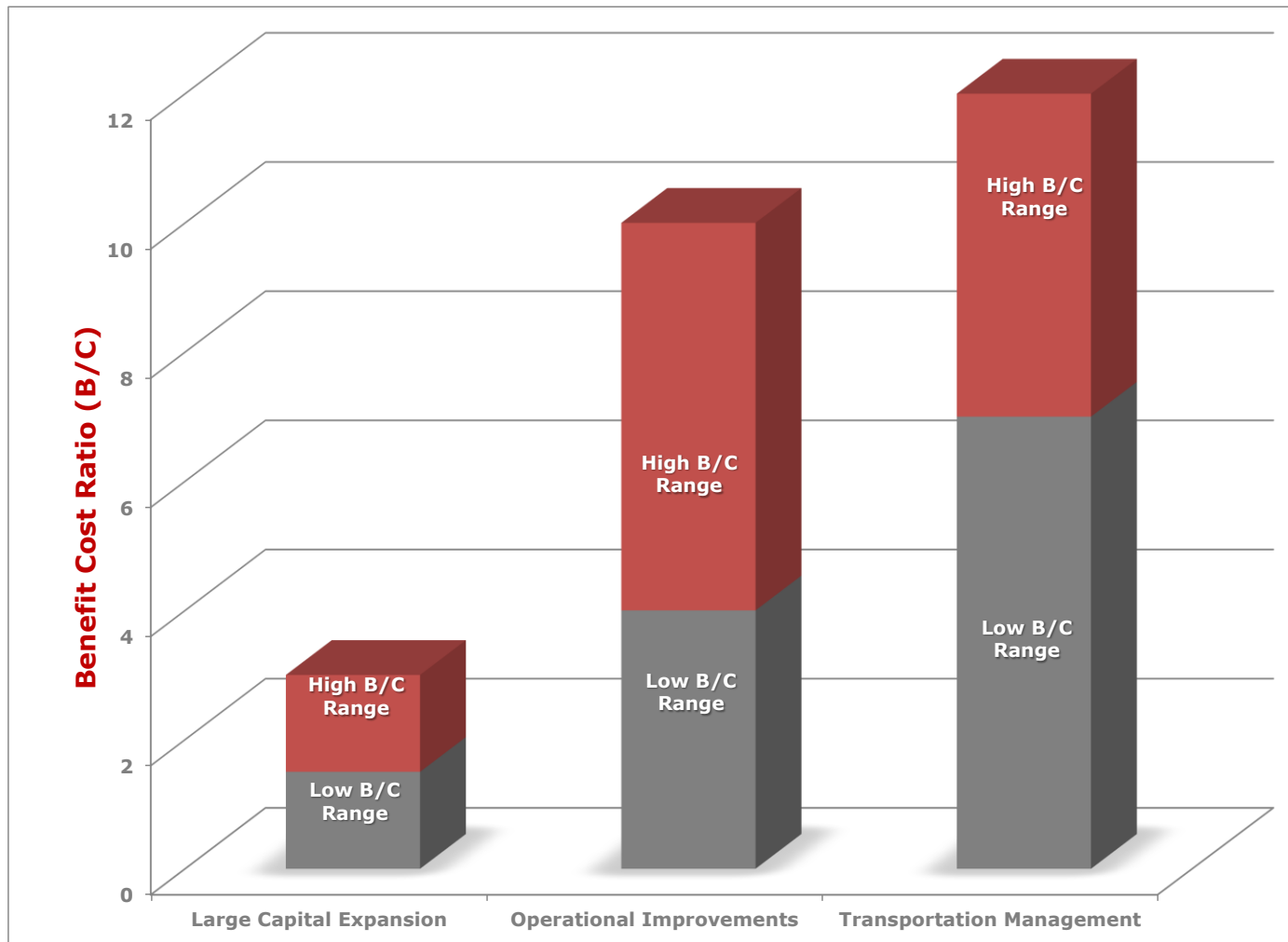
Mobility Pyramid 2006-present

- ▶ Emphasized since 2006
- ▶ RTP 2008 and 2012
- ▶ Bigger bang for the buck



Transportation Investments have more impact if built upon this foundation

Compelling Return on Investments



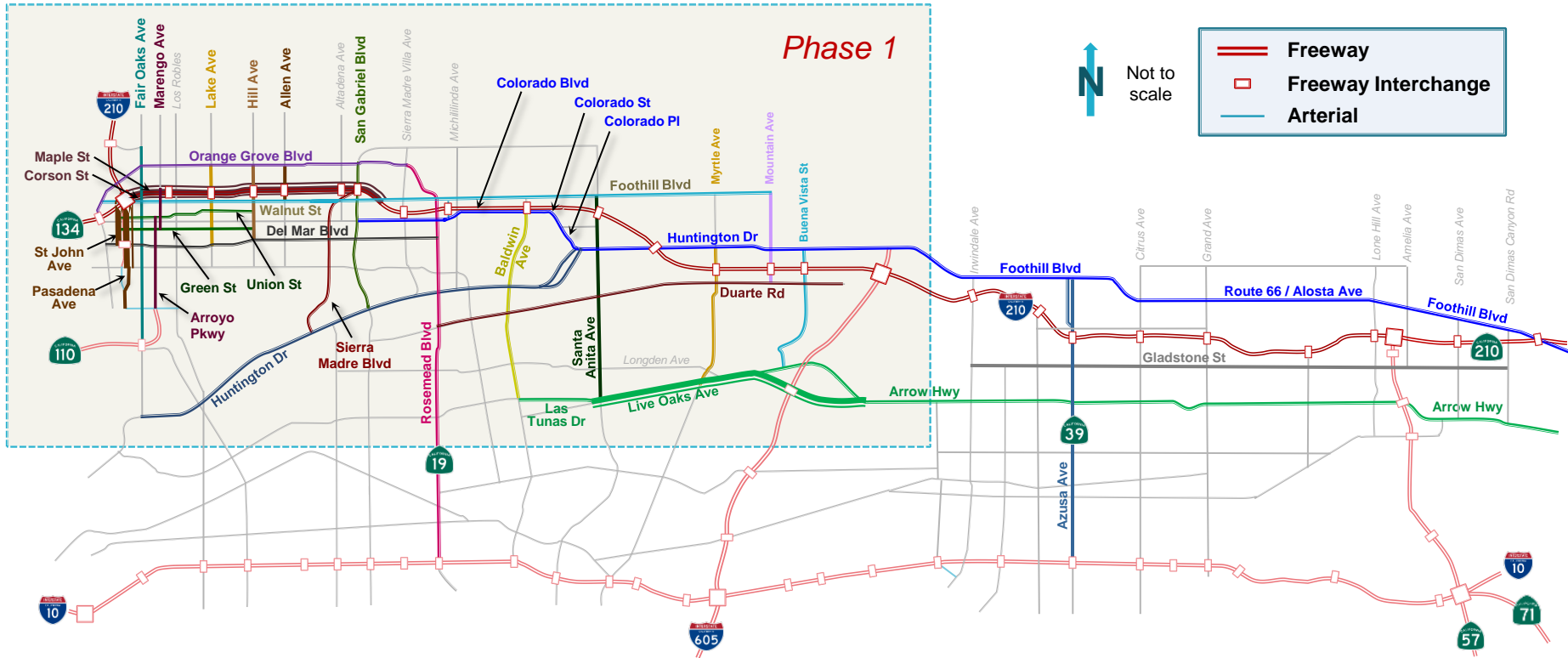
The Connected Corridors Pilot

Why the I-210?



Item	Rating	Notes
Geometry	Excellent	Several Parallel arterials in close proximity of I-210; freeway frontage streets in Pasadena
Jurisdictional Environment	Good	Possibility of doing pilot deployment within one or two cities
Freeway Traffic Detection	Very Good	Sensors on mainline and most ramps.
Arterial Traffic Detection	Promising	Many intersections already equipped with traffic sensors
Traffic Demand Patterns	Very Good	Westbound traffic during AM peak; eastbound traffic during PM peak, average % of trucks
Existing Freeway Control	Excellent	Existing HOV lanes; ramps and freeway interchanges metered
Existing Arterial Control	Good	Traffic responsive system already in place on some arterials, participation of key cities in IEN.
Existing Transit Services	Very Good	Metro Gold Line running parallel to I-210, in close proximity
Park-and-ride capabilities	Uncertain	Many facilities exhibit high occupancy rates
ICM Opportunities - Peak Hour	Challenging	High congestion level on freeway; some arterials with limited extra capacities at some intersections; incident response needs; different traffic pattern on Fridays
ICM Opportunities - Off Peak	Excellent	Many large scale events; incident response needs

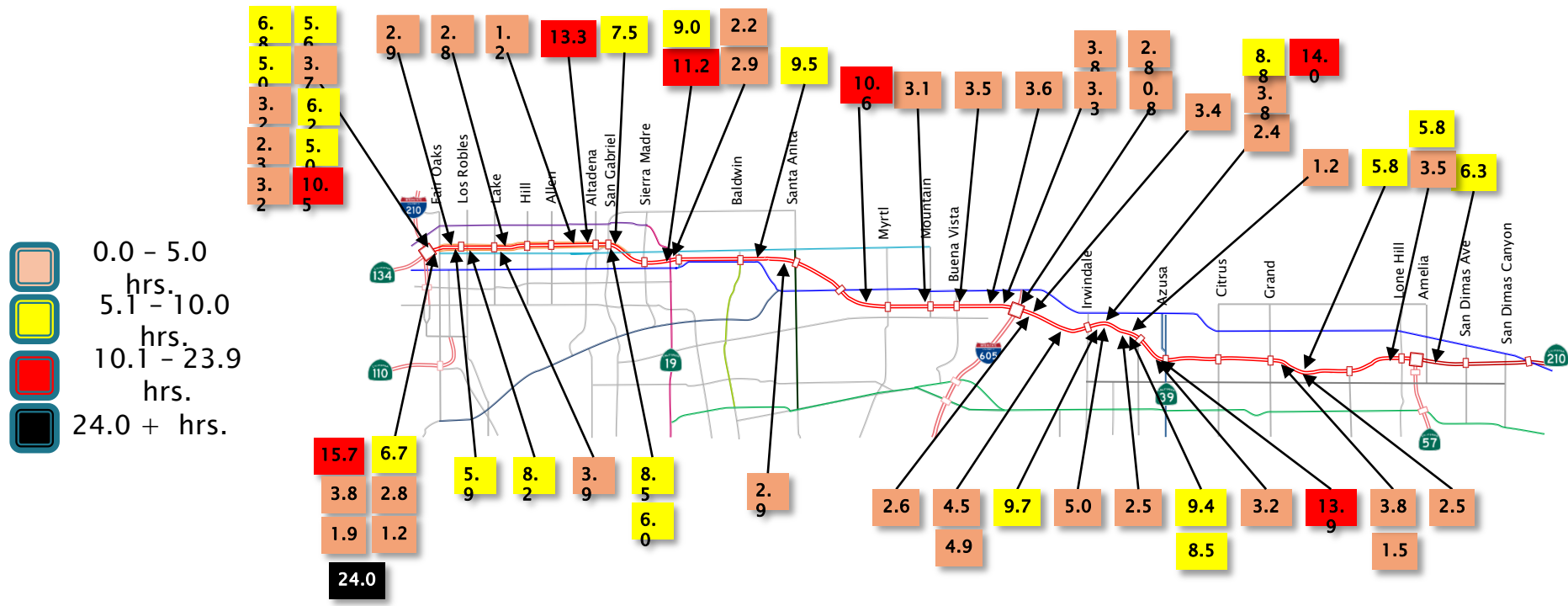
Project description



▶ Area highlights

- Access to transit, limited construction, parallel arterials access, local partnership opportunity, availability of parking facilities, regional attractions, high accident volumes, truck access, etc.

Major Incidents on I-210 (2009 - 2013)



▶ In 2013 a total of approximately 6,000 incidents were reported within the project limits. (500 per month)





Sky 2

DEVELOPING STORY

Big Rig Crash

PASADENA


cbs2.com

Sky 2

DEVELOPING STORY




Big Rig Crash



PASADENA





5:04 PM

Operational Scenario

 Freeway CMS
 DMS/Trailblazer


 Adjust Upstream Ramp Meter
 Adjust Downstream Ramp Meter

 Adjust Signal Timing
 511 Go 511

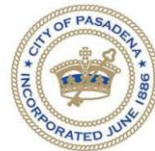


Integrated Corridor Management Benefits

- ▶ Improvements in travel time reliability and delay
- ▶ Reduce incident response times
- ▶ Likely reduction in secondary incidents, leading to improvements in safety
- ▶ Enhanced coordination between agencies, traffic managers, transit managers, and first responders
- ▶ Increased attractiveness of transit services
- ▶ Improve traveler experience
- ▶ New decision-making tools to improve corridor operations

Project Partners Support

- ▶ Tremendous support by our Partners:
 - Metro, Los Angeles County Dept. of Public Works, PATH
 - Cities along project corridor
 - Pasadena
 - Arcadia
 - Duarte
 - Monrovia
 - Rail and Transit Operators
 - Metro Operations
 - Pasadena Transit
 - Foothill Transit
 - CHP and other first responders



Statewide Reorganization Pilot for Corridor Management

- ▶ **Transportation System Management**
 - Sustainability & Longevity
 - Improve response for partners and users of the system
- ▶ **Caltrans Reorganization**
 - Paradigm Shift
 - Mission of providing for a safe sustainable and integrated and efficient transportation system

Where are we now

(I-210 CC Pilot)

▶ Pilot Status

- Implementation by Spring of 2017
- Concept of Operations: completed as of end of April 2015
- Project Charter: Stakeholder Consensus completed (awaiting final execution)

Conclusion

- ▶ Emphasize the importance of these initiatives to the region
 - ▶ Acknowledge stakeholder participation to date
 - ▶ Special thanks to Metro Highway Program for participation and support
 - ▶ Request an increase in Metro staff support as the pilot moves into the development of requirements and the design phase
 - ▶ Encourage Metro to investigate opportunities to identify funding to support the pilot
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