


I-405 Sepulveda Pass Improvements Project

Turning Carmageddon Into Carmaheaven



Ventura Blvd 1 3/4
Ventura Fwy I-405 2
Burbank Blvd 3 1/4

Caltrans Commitment

- 64 fixed changeable message signs in LA, Ventura counties
- 40 fixed changeable message signs along routes 5, 99, 101, and 580, from Oregon border to San Diego
- No lane closures on all other freeways that weekend



Unified Command

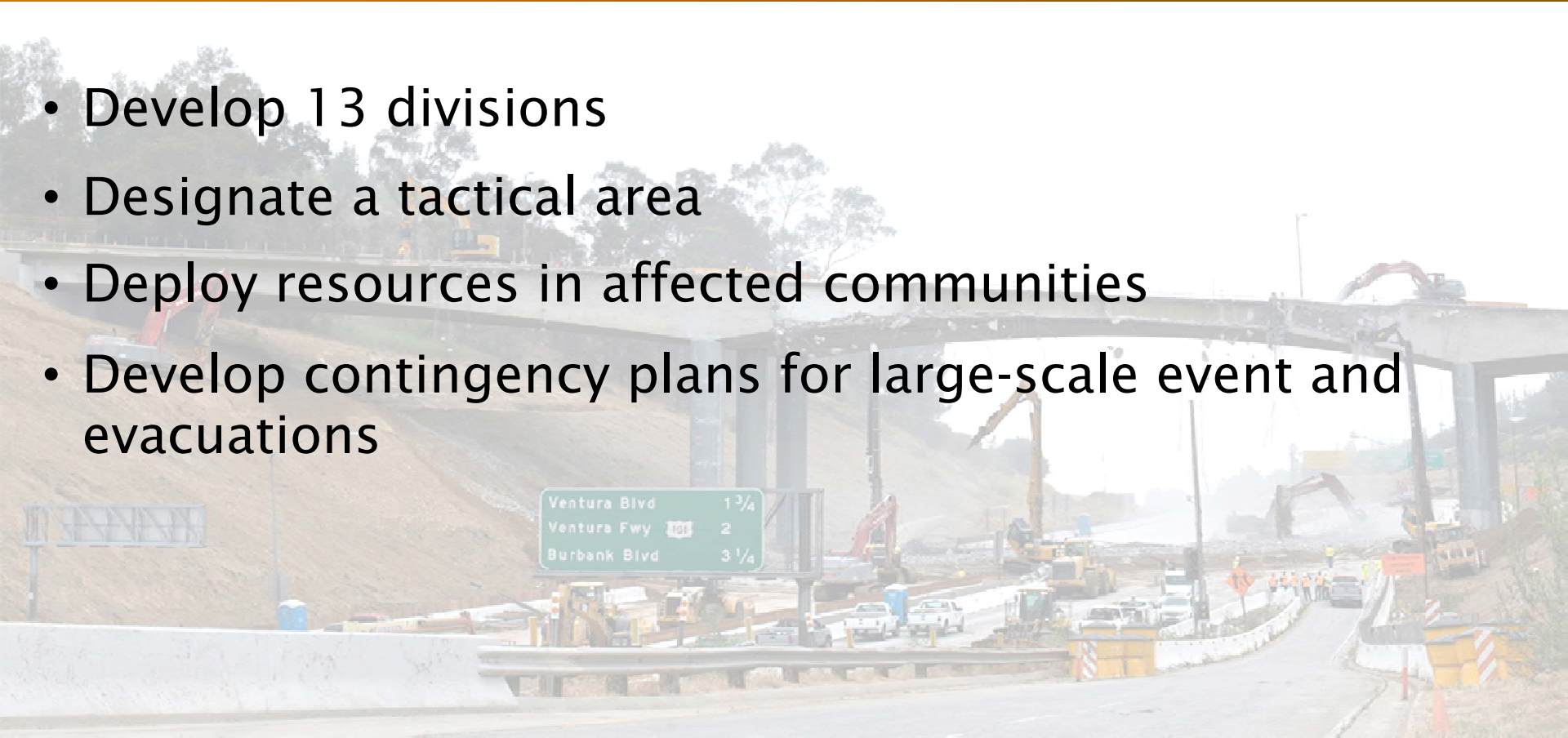
- LAFD, LAPD, CHP, LADOT
- Numerous allied agencies provided representation
- Command Post at Emergency Operations Center/Dispatch Operations Center
- Unified Event Action Plan for unified planning
- Los Angeles Emergency Management Department assisted with coordination

Concept of Operations

- Provide fire/emergency medical service/rescue/law enforcement/traffic control service within and around the impact area
- Manage risk
- Maintain service and response times
- Develop four geographic branches and one jurisdictional branch (CHP)

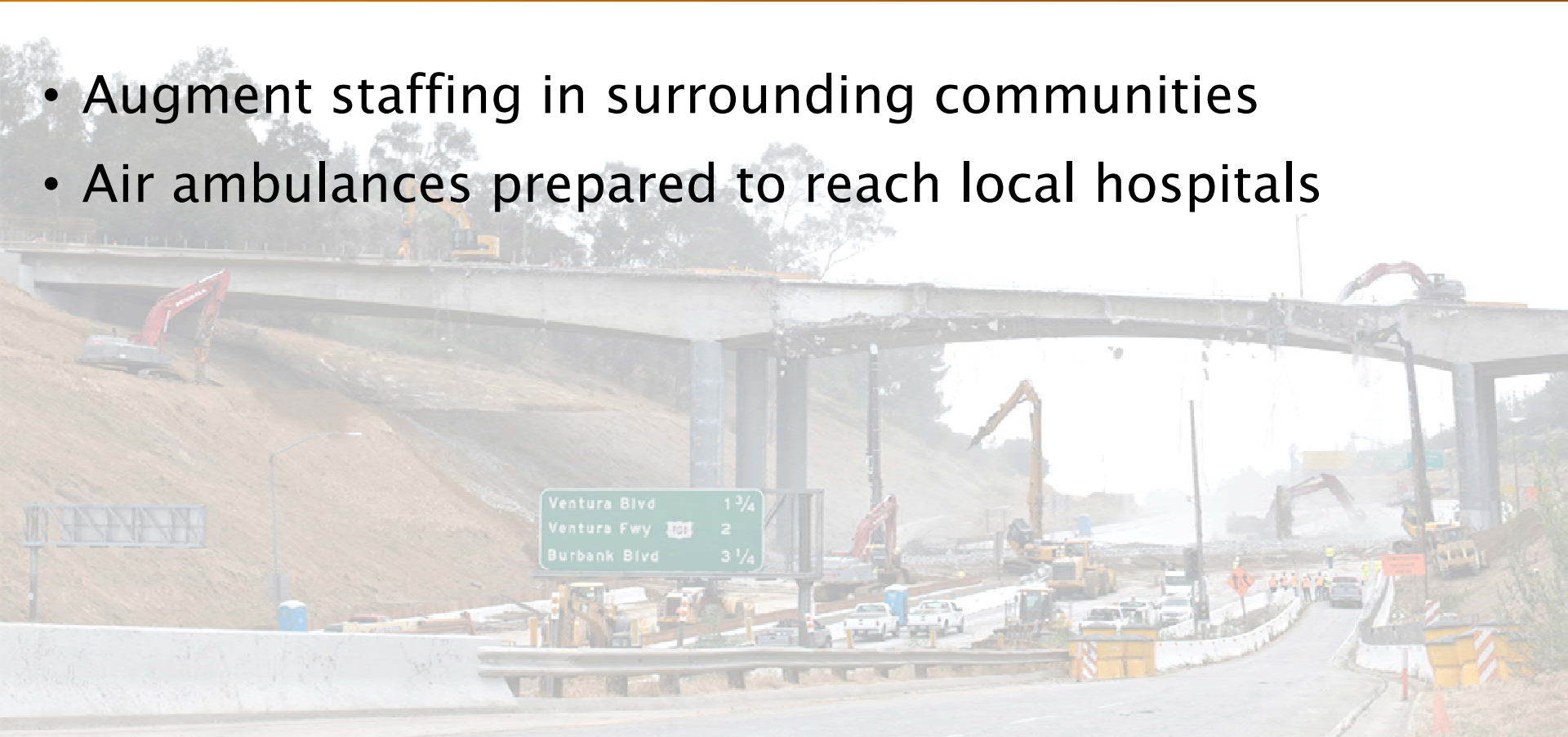
Concept of Operations (contd.)

- Develop 13 divisions
- Designate a tactical area
- Deploy resources in affected communities
- Develop contingency plans for large-scale event and evacuations



Concept of Operations (contd.)

- Augment staffing in surrounding communities
- Air ambulances prepared to reach local hospitals

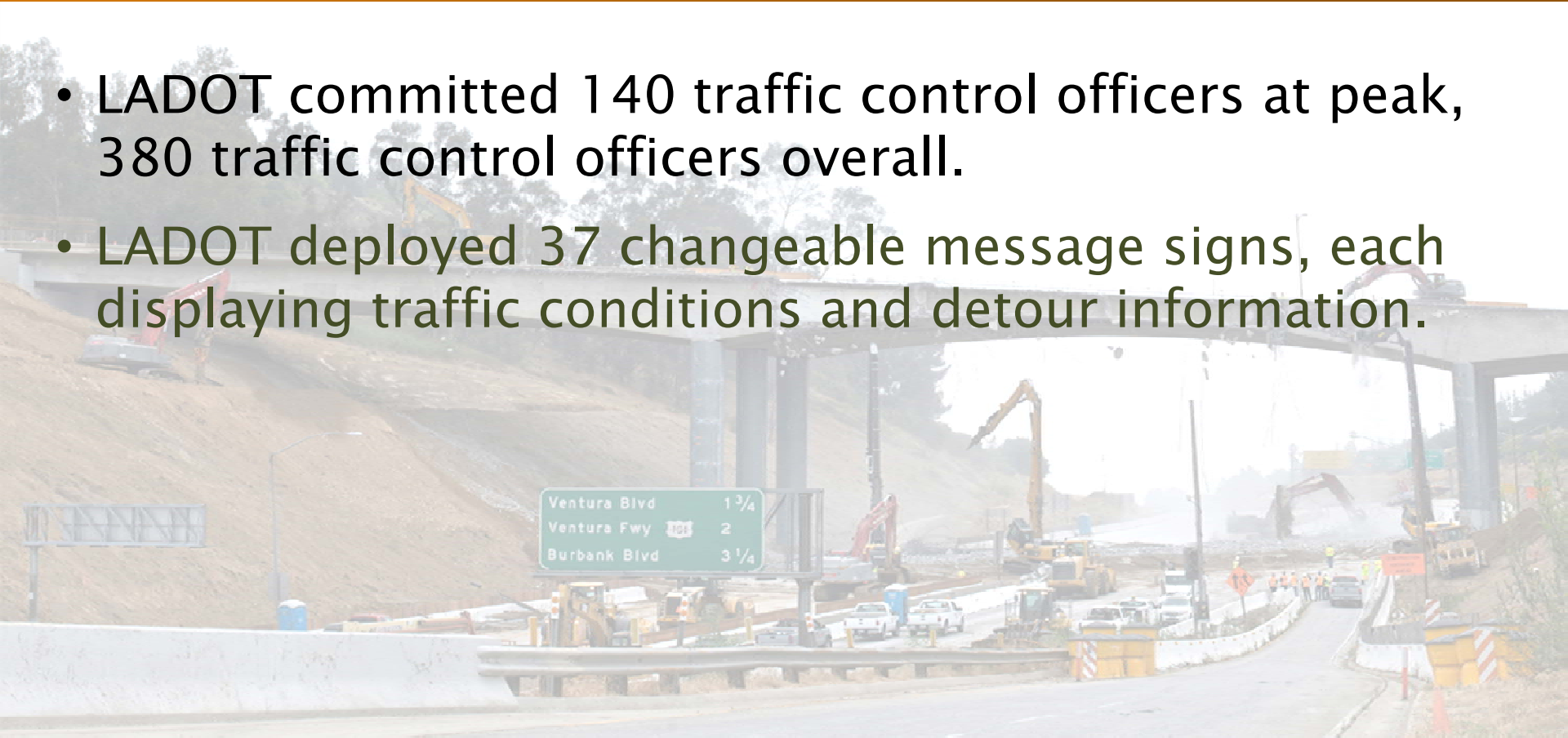


Operation Assets

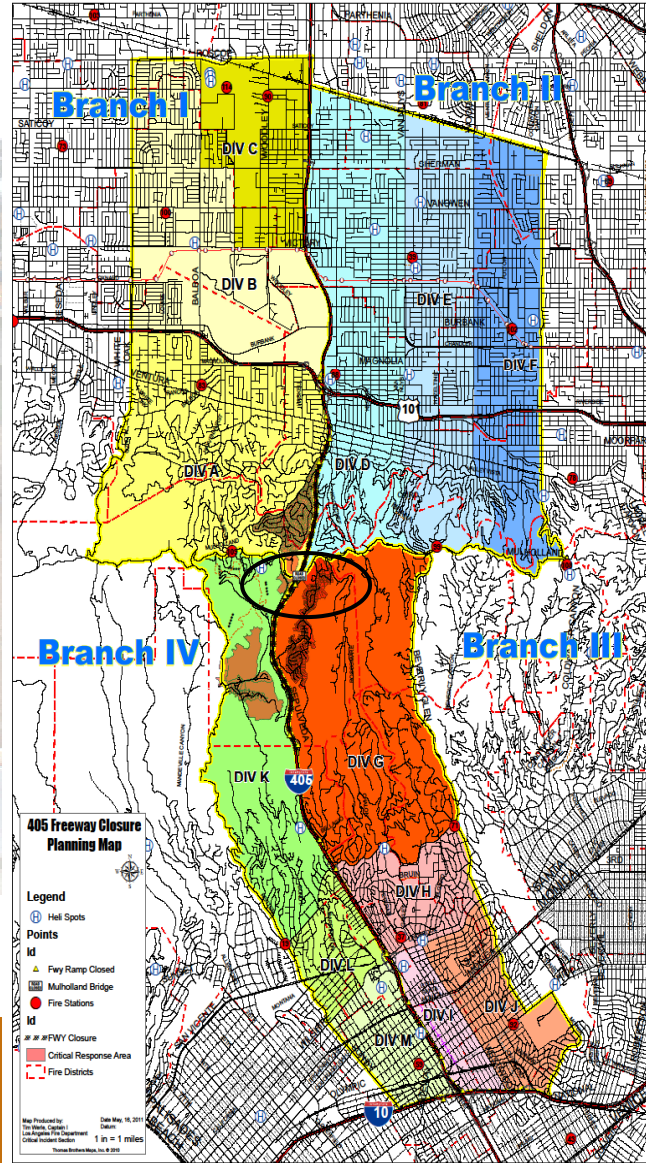
- In surrounding communities, LAFD committed more than 150 firefighters and paramedics.
- LAPD committed 250 staff members during the day and 207 staff members at night.
- CHP dedicated 80 officers to the closure effort.
- CHP placed three big-rig tow trucks on call.

Operation Assets

- LADOT committed 140 traffic control officers at peak, 380 traffic control officers overall.
- LADOT deployed 37 changeable message signs, each displaying traffic conditions and detour information.



Operations Planning Map



Contractor Demolition Planning

Kiewit Infrastructure West Co. Planning

- Extensive demolition plan by Penhall Corporation approved by Caltrans (bridge owner)
- Hour-by-hour schedule broken into 15-minute increments
- Additional resources available; contingency plans waiting
- Kiewit furnished 46 portable message signs arrayed throughout Los Angeles County.

Contractor Planning (contd.)

Essential Elements

- Leadership/Teamwork
- Empowered decision makers in key roles

Contributions from Experienced Partners

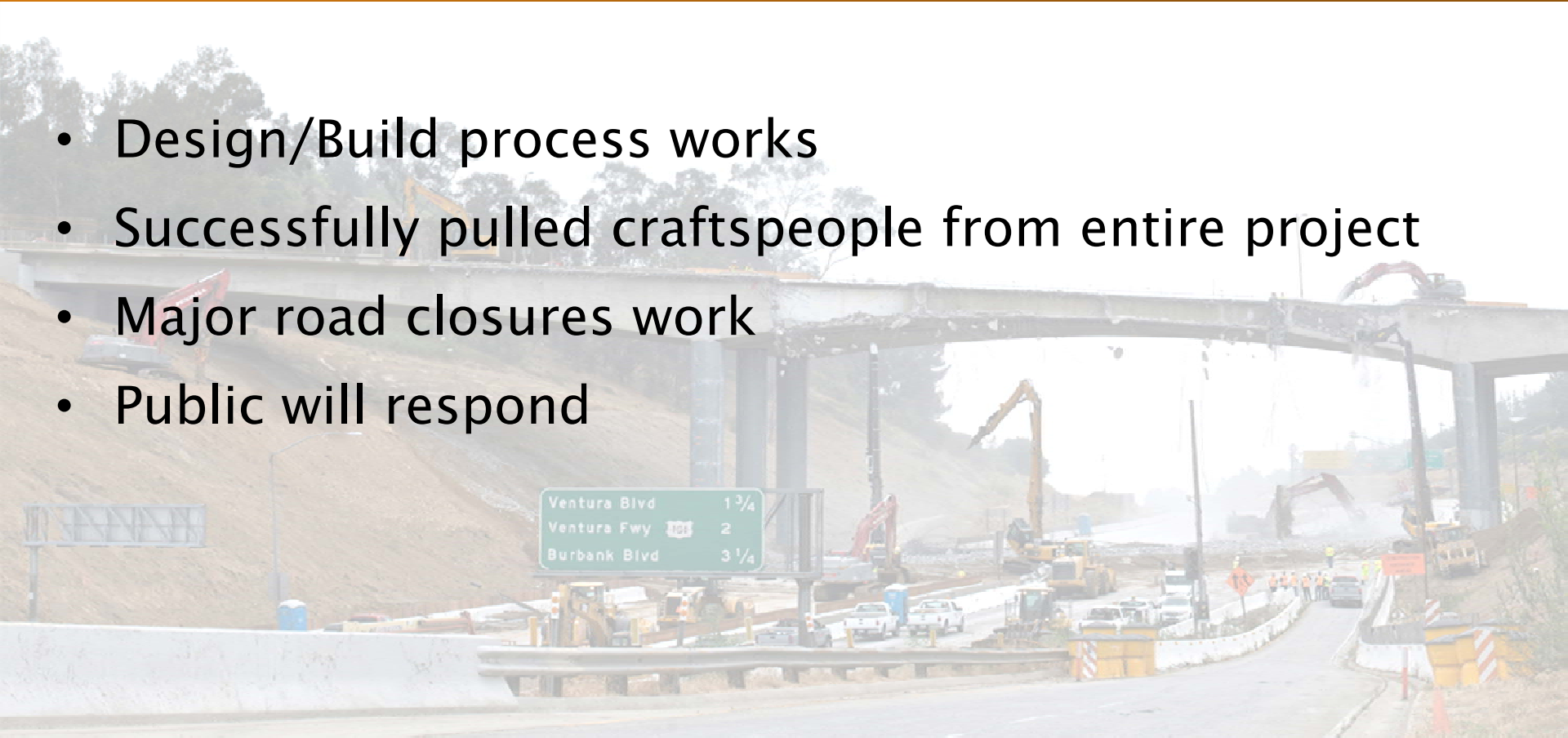
- Caltrans/Metro
- City of Los Angeles
- County of Los Angeles
- Emergency services
- Kiewit/HNTB/Penhall
- Skilled craftspeople
- Statewide traffic control

Scale of Contractor Work

- Crews started placing traffic control devices one month prior to demolition.
- Friday night traffic control setup required 10 crews, 28 trucks, and 5 hours.
- 2,500 cones used to close the freeway.
- 9 million pounds of concrete removed from bridge
- 1,000 cubic yards of soil placed under the bridge to protect the roadway from falling debris.
- 7 hoe-rams simultaneously demolished the bridge.

Construction Lessons Learned

- Design/Build process works
- Successfully pulled craftspeople from entire project
- Major road closures work
- Public will respond



Traffic Conditions

Vehicle Miles Traveled (VMT)

- During weekend in Los Angeles County, VMT dropped 12 percent.
- VMT in neighboring counties remained unchanged.
- Northbound I-405 at Culver Bl, traffic on Saturday, July 16 dropped 64 percent from previous Saturday.
- Southbound I-405 at Burbank Bl, traffic on July 16 dropped 56 percent from previous week.

Traffic Conditions (contd.)

VMT Results for Saturday, July 16

Location	Change (%)	Change (Vehicles)
Northbound I-405 at Culver Bl	64	81,562
Southbound I-405 at Burbank Bl	56	48,396
US 101 near I-405 (northbound)	40	64,670
US 101 near I-405 (southbound)	40	68,000
I-10 near I-405 (eastbound)	25	29,527
I-10 near I-405 (westbound)	25	34,770

Traffic Conditions (contd.)

VMT Results for Saturday, July 16

In general, congested routes within the project area saw a reduction of between 8 to 10 minutes.



Creative Community Outreach

- 50 Equivalent advertising dollars in millions Metro received from media coverage of I-405 closure and Mulholland Bridge demolition
- 571,445 Number of times the I-405 website was viewed two weeks before I-405 closure
- 200 Number of websites that added Countdown to Closure clock to their sites; Countdown to Closure clock viewed more than three million times
- 25 Presentations to community stakeholders and key institutions immediately adjacent to Mulholland Bridge

Celebrity "Tweeters" Pitched in

Jessica Alba

Christina Applegate

Sean "Diddy" Combs

Tom Hanks

Paris Hilton

Kim Kardashian

Ashton Kutcher

Piers Morgan

Conan O'Brien

Ryan Seacrest

William Shatner

David Spade

Targets of Outreach

Sector

Transportation

Government, Access and Social Services

Cultural, Entertainment, Religious

Business, Commerce, Labor

Educational Institutions, Utility Companies

Emergency Services, Joint Intelligence

Courier and Delivery Services

Selected from outreach to over 6,000 stakeholders and organizations

Private Sector Outreach

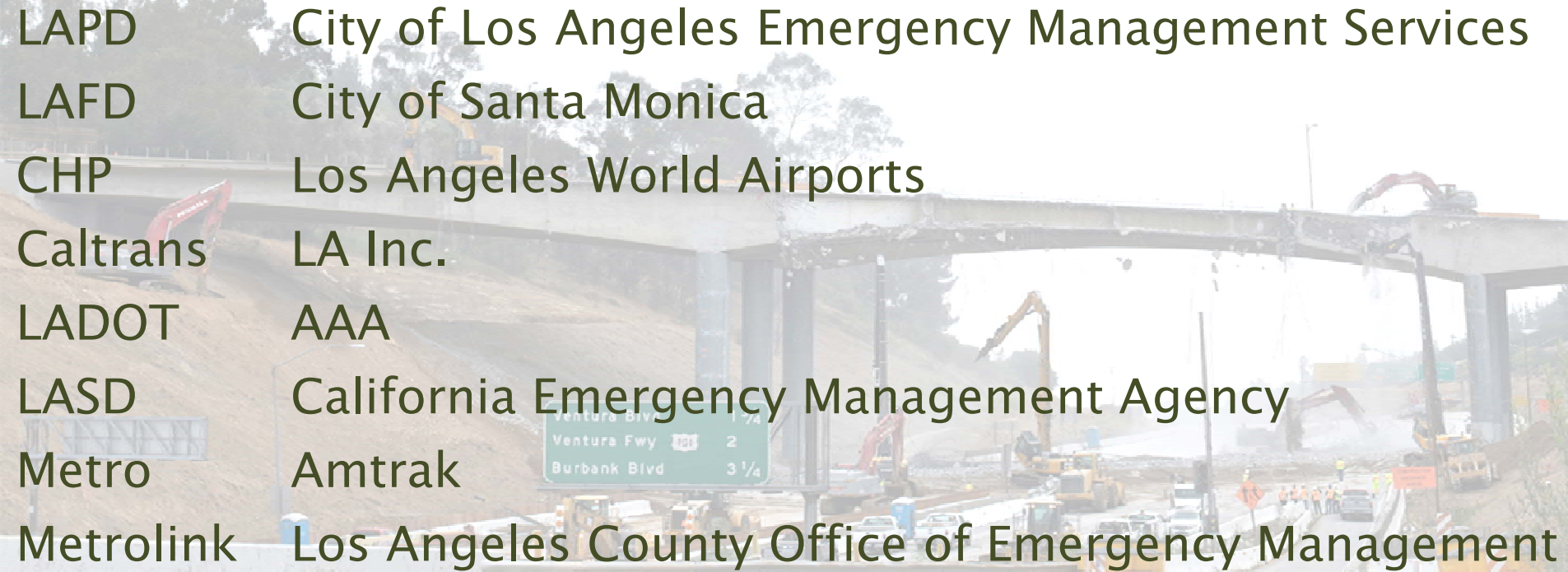
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- 6.6 million Number of impressions Facebook estimated its free ad for I-405 Facebook page would generate.
 - 5,234 Number of visitors to AAA website page offering information on I-405 closure.
 - 405 Number of Twitter postings LA Inc. sent during closure weekend and nine days before.
 - \$10 Cost of Weekend Pass Metrolink offered during demolition weekend.

Private Sector Outreach (contd.)

- 3 Websites offering real-time traffic conditions (e.g., go511, sigalert, WAZE)
- 3 Global Positioning Systems providers (Garmin, TomTom and Magellan) uploading closure data
- 1 Private sector companies offering to promote I-405 specials (carmageddon.com)



Carmaheaven Partners



LAPD	City of Los Angeles Emergency Management Services
LAFD	City of Santa Monica
CHP	Los Angeles World Airports
Caltrans	LA Inc.
LADOT	AAA
LASD	California Emergency Management Agency
Metro	Amtrak
Metrolink	Los Angeles County Office of Emergency Management