



I-15 Mobility Alliance



# I-15 Mobility Alliance Update NDOT Transportation Board Meeting

September 11, 2017

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- I-15 Corridor System Master Plan 2017 Update
- I-15 Corridor Alternate Route Study Update
- I-15 Multistate Corridor Operations and Management (MCOM) Project Update

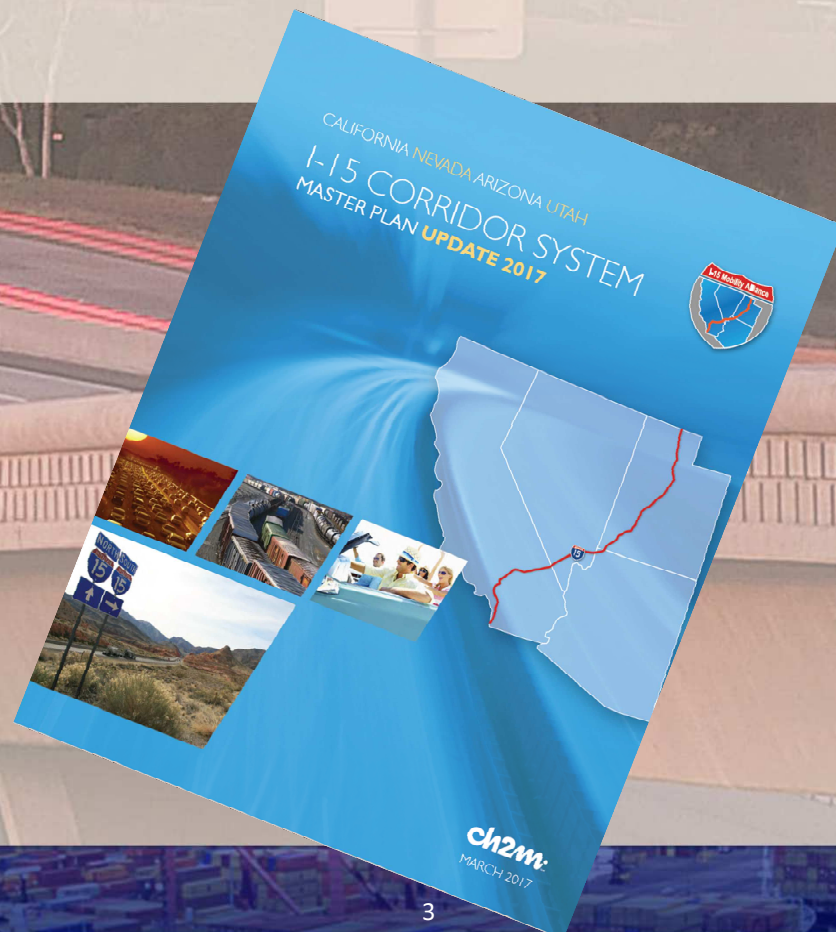
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# I-15 Corridor System Master Plan 2017 Update



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# 2017 CSMP Key Updates

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1. **Economic Lifeline:** defines this transcontinental corridor and provides an overview of its importance to the nation and local communities served by it.

2. **Moving People:** describes the socio-economic make-up of the adjoining megaregions and the opportunities and challenges of moving people between these major population centers via car, rail, and airplane.

3. **Moving Goods:** establishes the importance of goods movement to the financial well-being and quality of life of those living along the corridor, and to the nation.

4. **Performance Measures:** tracks progress of improvements along the corridor as each state implements capacity, safety and operational enhancements.

5. **Mobility Alliance:** introduces the organizational structure and mission of the Alliance, and the successes achieved through collaboration.



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# Congestion



◆ Traffic Chokepoints  
(Speeds Under 40 mph)

**Source:** NPMRDS Travel Times, 2013





# Safety



Fatal Crash Rate  
(Fatal Crashes per MVMT)

0.001 - 0.003

0.004 - 0.006

0.007 - 0.009

0.010 - 0.015

0.016 - 0.021

# Segment Number

Source: NHTSA FARS, 2014

# Infrastructure Condition



- Structurally Deficient Bridge
- Functionally-Obsolete Bridge

Source: NBI Database, 2015; Peterson, pers. comm. 2017; Yaqub, pers. comm. 2016





# I-15 Mobility Alliance Accomplishments

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## HIGHWAY/BRIDGE

Sponsor	Project Name
AZ	ADOT I-15: Virgin River Gorge Bridges
CA	Caltrans I-15/French Valley Parkway Interchange
CA	RCTC I-15/SR-91 Interchange
CA	SANBAG I-15/I-215 (Devore) Interchange Reconstruction
CA	SANDAG I-15/SR 76 East
NV	NDOT Project NEON Phase I: I-15 from Sahara Ave to I-15/US-95 Interchange (Spaghetti Bowl)
UT	UDOT I-15 Improvements from Lehi to Draper



## TOLLING AND CONGESTION PRICING

Sponsor	Project Name
UT	UDOT I-15: HOV/HOT Lanes I-215 to Riverdale Phase I



## INTERMODAL FREIGHT DISTRIBUTION

Sponsor	Project Name
CA	SANDAG Port of San Diego Freeway Access Improvements
CA	SANDAG State Route 111/Oray Mesa East Port of Entry Project



## TRANSIT AND RAIL

Sponsor	Project Name
CA	SANDAG Mid-City Transit Projects/I-15 Corridor BRT
NV	RTCSNV Flamingo BRT, Boulder Highway to Bruce Woodbury Parkway
NV	RTCSNV I-15 Park and Ride Facilities, Various Locations
UT	UTA I-15 Park & Ride Facilities, Various Locations
UT	UTA Front Runner System Improvements
UT	UTA Provo/Orem BRT via University Parkway and University Avenue



## ITS/ATMS

Sponsor	Project Name
CA	Caltrans I-15 Integrated Corridor Management Project
NV	NDOT/FAST I-15 from Craig Road to SR 604, FAST Package D
UT	UDOT Expansion of ITS Digital Backbone on I-15
CA, NV, AZ, UT	I-15 Mobility Alliance I-15 Dynamic Mobility Project



## INTERSTATE STRATEGIC CORRIDOR INVESTMENTS

Sponsor	Project Name
CA, NV, AZ, UT	FRA Western High-Speed Rail Feasibility Study
UT	Dixie MPO Utah I-15 MP 0 to 16 Environmental Assessment
NV, AZ	ADOT/NDOT I-11 and Intermountain West Corridor Planning, Arizona to Nevada



- 23 Improvements Completed or Under Construction since 2012
- 8 grants awarded since 2012

## AWARDED GRANTS INCLUDE:

**\$1.25M – I-15 Mobility Alliance:**  
Dynamic Mobility Project (MCOM)

**\$21.6M – ADOT:** I-15 Virgin River Gorge Bridge (TIGER 2012)

**\$13.3M – RTC of Southern Nevada:**  
Flamingo Corridor Improvements (TIGER 2012)

**\$421M – RCTC:** SR 91 Corridor Improvements (TIGER 3 TIFIA)

**\$49.3M – Caltrans:** SR-11 Segment 2 and Southbound Connectors (FASTLANE 2016)

**\$10M – Port of San Diego:** 10th Ave Marine Terminal Modernization (TIGER 2015)

**\$820,000 – Wasatch Front Regional Council:**  
The Pioneer Corridor Plan (TIGER)

**\$200,000 – UDOT and UTA:**  
Salt Lake City Metropolitan Area Transportation Improvements (Integrated Corridor Management Grant 2015)

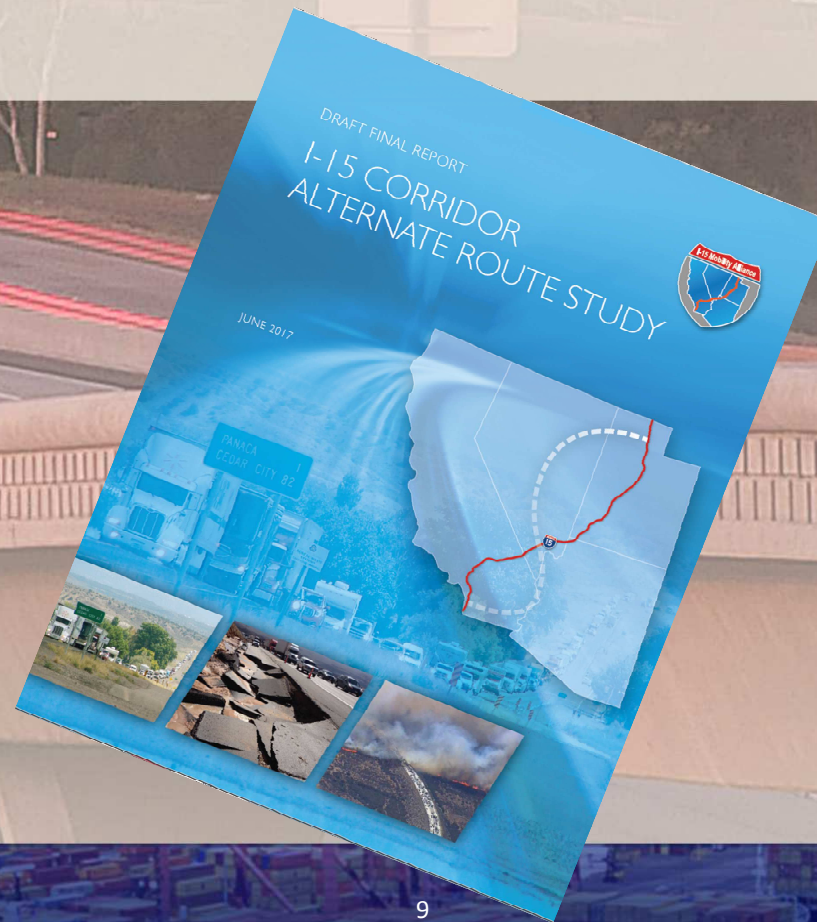
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# I-15 Corridor Alternate Route Study Update



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# Need

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- Major incidents that close I-15 cripple traffic, causing added congestion and lost economic dollars: a lack of alternate routes exist.
- Short, local alternate routes may not exist or accommodate added traffic.
- Because of the corridor's terrain and rural nature, drivers need to be aware of alternate routes many miles in advance.

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# 2014 Moapa

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# 2015 Cajon Pass

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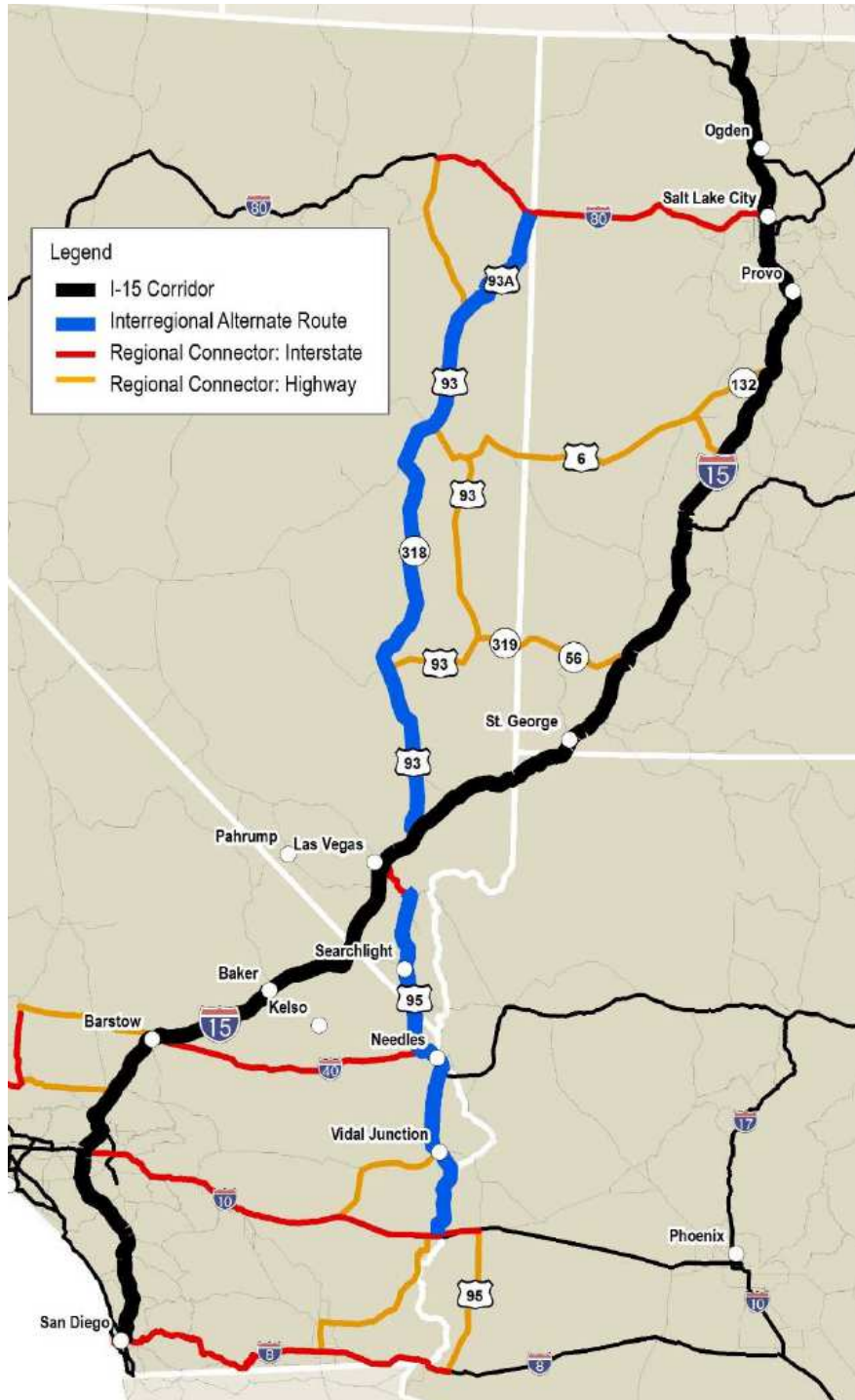
# 2016 Cajon Pass

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# Alternate Route



## Selected Alternate Route:

- Backbone: US 95 & US 93
- Connectors: multiple connections back to I-15

## Route Condition and Assessment:

- Inventoried alternative route segments to identify corridor deficiencies
- Documented potential improvements to meet minimum operating conditions
- Prioritized list of improvement projects needed





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# I-15 Multistate Corridor Operations and Management (MCOM) Project Update



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# I-15 Dynamic Mobility Project

## LEGEND

- UDOT TMC
- ADOT TMC
- Southern Nevada TMC
- Caltrans District 8 TMC
- Caltrans District 11 TMC
- TMC Locations



- Received \$1,250,000 MCOM grant
- Will create a seamless ITS backbone across the Alliance
- Will improve incident / detour communication





# I-15 Dynamic Mobility Project

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## I-15 DMP Objectives

- Improve how states can coordinate and manage events on I-15 in real time
- Develop a software solution to help agencies operate and manage the corridor
- Improve corridor wide information that is made available to users

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# I-15 Dynamic Mobility Project

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## Project Phases

- **Phase I** – Inventory system assets and develop Operational Goals and Concept
- **Phase II** – Develop System Requirements and outreach to freight
- **Phase III** – Develop and implement system software, pilot notification strategies to freight

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# Questions?

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