

I-15 MOBILITY ALLIANCE

WORKSHOP #2: MAJOR INFRASTRUCTURE PROJECTS

MAY 31, 2022









TODAY'S AGENDA

- » Remarks from the USDOT
- » I-15 Mobility Alliance Background
- » Presentations of Major Project Priorities by State
- » Discussion





REMARKS FROM THE USDOT

CHARLES SMALL

USDOT Deputy Assistant Secretary, Intergovernmental Affairs

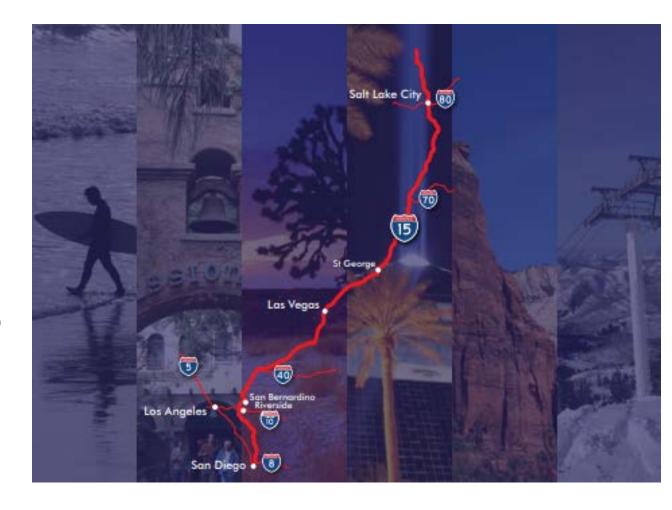






I-15 MOBILITY ALLIANCE OVERVIEW

- Began in 2007 with a coalition of western state DOTs (AZ, CA, NV, UT)
- Goal: develop a long-range plan to address current and future mobility needs along I-15 from southern California to northern Utah
- Now includes 95+ public and private sector partners





I-15 MOBILITY ALLIANCE OVERVIEW

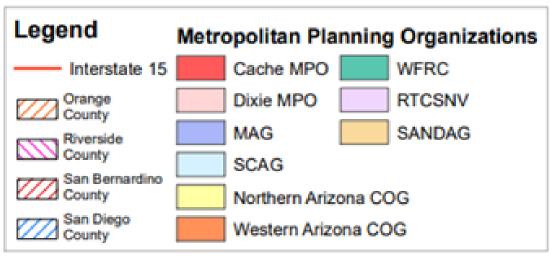
Partners include:

- State DOTs
- MPOs/Transportation Agencies
- Transit Agencies
- Cities and Counties
- Resource Agencies
- Private Industry
- Non-Profit Organizations
- Academics
- Economic Development/ Commerce





I-15 MPO PARTNERS







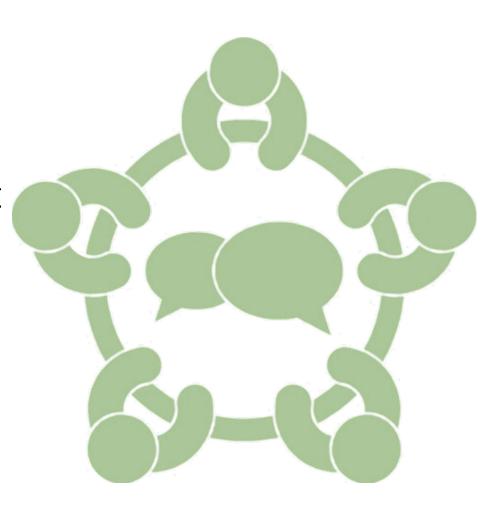
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I-15 MOBILITY ALLIANCE FOCUS GROUPS/WORKSHOPS

Purpose: Gather agency and stakeholder input about needs and priorities

- High-Speed Rail & High-Capacity Transit (March '22)
- Major Infrastructure Projects (May '22)
- Freight Mobility (July '22)
- Alternative Fuels & Emerging Technologies (September '22)





IMMEDIATE PROJECTS OF INTERREGIONAL SIGNIFICANCE (IPIRS)

- Projects along I-15 or systemically connected to I-15
- Projects that have significant interregional benefits for moving people and moving goods on I-15
- Projects with:
 - community support
 - environmental clearance activities complete or underway, and
 - substantial commitment of state and local funding.
- Over 25 IPIRS project funded and advanced



2012-2017 Accomplishments HIGHWAY/BRIDGE Project Name **Sponsor** ADOT I-15: Virgin River Gorge Bridges I-15/French Valley Parkway Interchange RCTC I-15/SR-91 Interchange SANBAG I-15/I-215 (Devore) Interchange Reconstruction SANDAG NDOT Project NEON Phase 1: I-15 from Sahara Ave to I-515/US 95 Interchange NV (Spaghetti Bowl)

TOLLING AND CONGESTION PRICING

1022111071110		33/1323/13/11/13/13	
	Sponsor	Project Name	
UT	UDOT	I-15: HOV/HOT Lanes I-215 to Riverdale Phase I	

I-15 Improvements from Lehi to Draper

INTERMODAL FREIGHT DISTRIBUTION

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

TRANSIT AND RAIL

UDOT

	Sponsor	Project Name	(#
CA	SANDAG	Mid-City Transit Projects/I-15 Corridor BRT	100
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-I 5 Dynamic Mobility Project	

INTERSTATE STRATEGIC CORRIDOR INVESTMENTS

THE CONTROL OF THE CO					
	Sponsor	Project Name	1		
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			

PERFORMANCE MEASURES ADOPTED IN 2017

Reliability

 Goal: Maintain travel speeds of 40 mph (minimum) throughout the day

Safety

 Goal: Maintain fatal crash rate per MVMT below 0.003

Infrastructure Condition

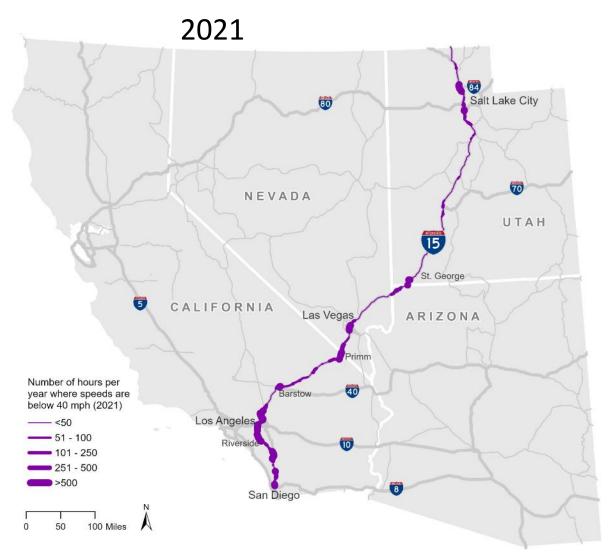
 Goal: Eliminate bridges in poor conditions along I-15





Reliability

Total Number of Hours where Speeds are Below 40 mph





Safety Fatal Crashes per MVMT





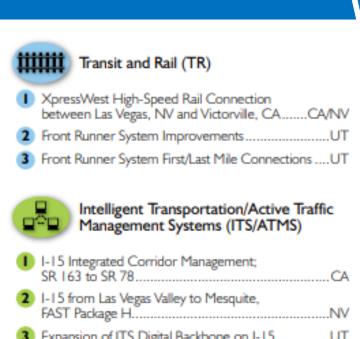
Infrastructure Condition Bridges in Poor Condition

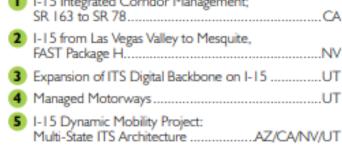




IPIRS – 2017 PRIORITIES







Interstate Strategic Corridor Investments

Southwest Passenger Rail Planning
2 I-15 Mobility Alliance PlanningCA/NV/AZ/UT
3 I-I I Corridor, Arizona & NevadaAZ/NV
4 I-I5 Alternative Route Implementation CA/NV/UT
Smart Truck Parking Study
Alternative Fuel Corridor Implementation

Myperloop, Las Vegas to Ports of LA/LBCA/NV



Highway/Bridge Projects of Regional and National Significance (HB)

•	I-15: Virgin River Gorge Bridges	AZ
2	I-I 5/French Valley Parkway Interchange	CA
3	I-10 Express Lanes	CA
4	I-15 HOV Improvements, Blue Diamond Rd to I-515	NV
5	I-15 Improvements: Utah MP 0 to 16	UT
6	I-15/Provo 820 North Interchange	UT



Tolling and Congestion Pricing (TCP)

•	I-15: 'to Sta	Toll Expr te Route	ess Lane 210	es froi	m (Caja	lco F	₹d		ΞA

1-15: HOV/HOT Lanes, Layton to RiverdaleUT



Intermodal Freight Distribution (IFD)

J	Port of San Diego Freeway Access Improvements C	4
2	SR-11/Otay Mesa East Port of Entry Project	Δ,
3	I-15 Improvements from Apex Economic Development District to CC-215N	V
4	I-15 Truck Climbing Lanes (various locations)U	T
5	5600 W. Access to Intermodal FacilityU'	Ť







I Ports O Border Crossing



I-15 MOBILITY ALLIANCE

CALIFORNIA
Major Project Priorities
Discussion











- Harbor Drive 2.0 Vesta Street
 - Approve Project Initiation June 2022
 - Project Approval & Environmental – December 2023
 - Design January 2024
 - Approve Contract February 2026
 - Final Project Closeout April 2031

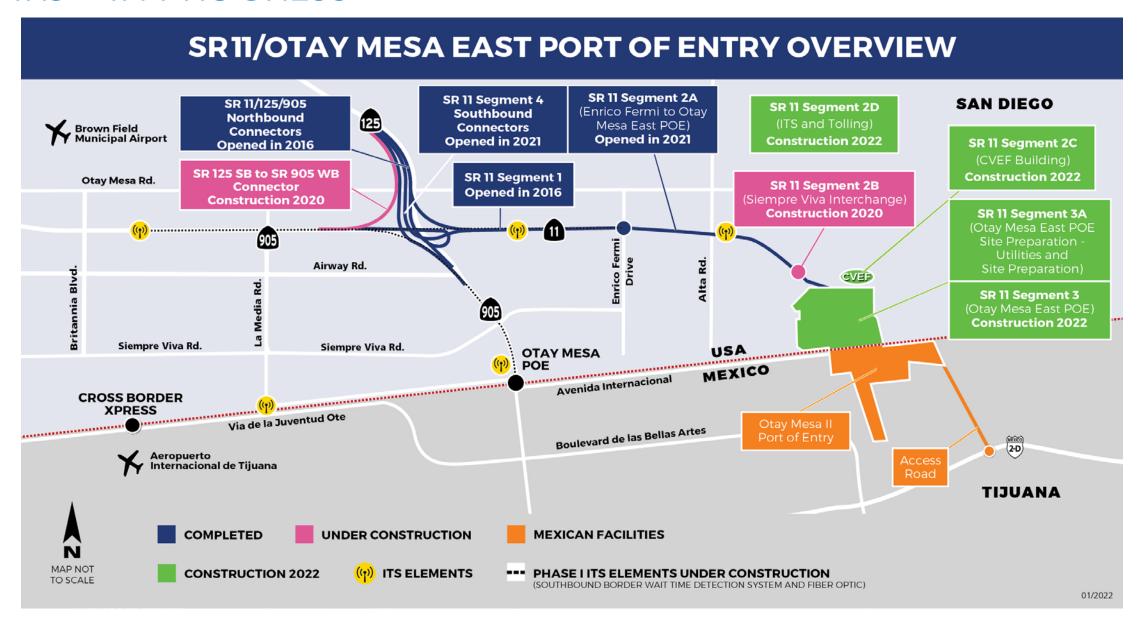




- SR-11/Otay Mesa East Port of Entry Project
 - Construction underway on final segment of SR 11 and SR 125/SR11/SR 905 connector ramps; estimated 2024 opening









- RAPID 235 Enhanced service
 - Escondido to Downtown San Diego via I-15, \$34M
- **❖** RAPID 238
 - San Diego via I-15, \$78M







- ❖ I-15 Complete Corridor: Managed Lanes
 - I-5 to I-805: add 2 managed lanes, \$103M
 - I-805 to I-8: add 2 managed lanes, \$115M
 - I-8 to SR 163: convert 2 general purpose lanes to managed lanes and add 2 managed lanes, \$241M
 - Valley Parkway to County line: convert
 2 general purpose lanes to managed
 lanes and add 1 managed lane, \$607M







- ❖ I-15 French Valley Parkway Interchange
 - \$50M INFRA grant in 2019
 - Phase 1 complete, Phase 2 in design
 - Project included in RTP





- Riverside County
 Transportation
 Commission (RCTC)
 - I-15/SR 91 Express Lanes Connector project between I-15N and 91E; between I-15S and 91W (under construction)





* RCTC

- I-15: Toll Express Lanes from Cajalco Rd. to SR 60 in 2021
- I-15 Express Lanes Project Southern Extension
- I-15 Interim Corridor Operations Project
- I-15 Corridor Operations Project
- I-15 Smart Roads Project (Temecula)





- San Bernardino County Transportation Authority (SBCTA): I-10 Freight and Express Lane project, LA Co. Line to I-15
 - Focused on addressing I-10/I-15 bottleneck
 - 9th most critical truck bottleneck in the U.S. (ATRI ranking)
 - Phase 1: Under construction







- ❖ I-10 Freight and Managed Lane Project I-15 to Colton
 - Phase 2: In Design Phase
 - Includes incentives for zeroemission trucks and fueling infrastructure
 - Competing for INFRA/Mega grant to close remaining funding gap





❖ I-15: SR 60 to SR 210 Express and Auxiliary Lanes (in Design)





- Autonomous ZEV Transit Tunnel to Ontario International Airport (called ONTLoop)
 - On-demand transit tunnel from Cucamonga Metrolink Station to ONT
 - Included in RTP
 - Currently in environmental with design-build contract in place by end of 2023







❖ US 395 Freight Mobility and Safety Project between SR 18 and I-15, in Design Phase (7-mile stretch in red)







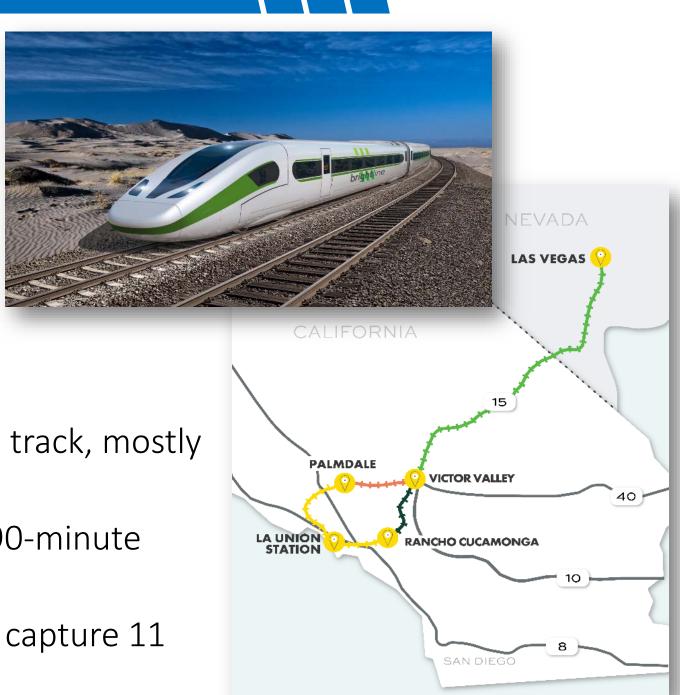
- ❖ I-15 SB Bottleneck Relief Phase 1 - CA Agriculture Station to Primm, NV
 - Utilizing shoulder for SB through traffic during peak periods (pilot)
 - Phase 1 construction to begin summer 2022
- I-15 SB Bottleneck Relief Phase 2 - CA Agriculture Station to Baker, CA (after successful completion of first pilot)







- Brightline High-Speed Rail -Victor Valley, CA to Las Vegas, NV
 - High-speed fully electric rail
 - No at-grade crossings; mostly single track
 - 170-mile corridor of protected track, mostly in median of I-15
 - Running up to 180 MPH with 90-minute travel times
 - At full operations, expected to capture 11 million one- way trips annually



Discussion of California's Major Project Priorities







I-15 MOBILITY ALLIANCE

NEVADA

Major Project Priorities

Discussion





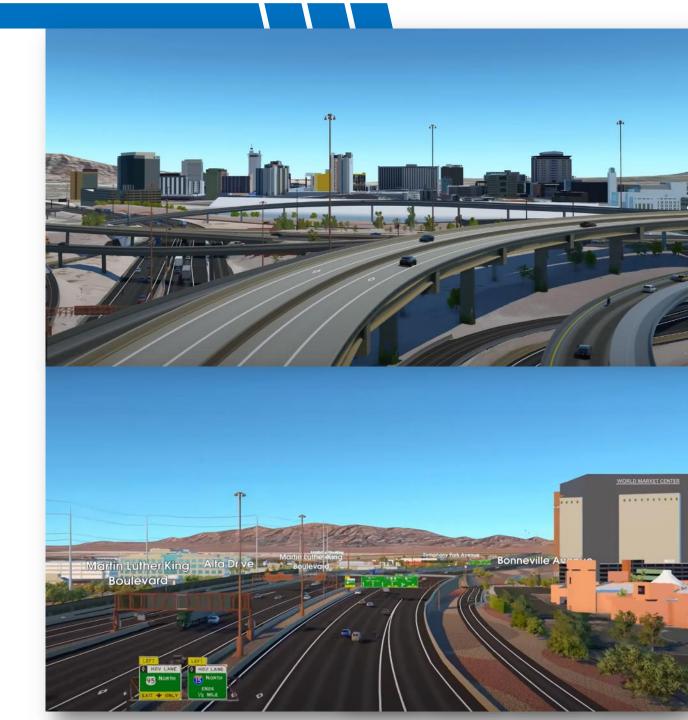






IPIRS – COMPLETED PROJECTS

- ❖ I-15 HOV Improvement, Blue Diamond Rd to I-15/US-95/I-515
 - Completed through Project NEON





IPIRS – PROJECTS IN PROGRESS

- ❖ I-15 Improvements from Apex Economic Development District to CC-215
 - CC-215 Interchange under construction





IPIRS – COMPLETED PROJECTS

- ❖ I-15 Dynamic Mobility Project
- ❖ I-15 Freight Mobility Enhancement Plan (CA, NV)



What is the I-15 Dynamic Mobility Project?

The I-15 Dynamic Mobility Project (DMP) looks to exchange between the four partnering states (Arizona, California, Nevada and Utah) along the I-15 corridor. The goal is to improve agency coordination when incidents, weather, and closures affect I-15. This will The anticipated result of this project is a webstates. The platform is envisioned to pull data and rmation from a variety of sources, such as State DOT 511 systems, the National Weather Service and ble emergency service data. Providing this information in a single location will help make sure that each state has the most up to date information available rding the status of I-15. The DMP will also look to lish new coordination processes with respect to event response and management and dissemination of traveler information on the I-15 corridor.

The I-15 corridor was selected to receive federal funding as part of the Multistate Corridor Operations and Management (MCOM) Program, with the Nevada DOT leading the project in partnership with Caltrans, Utah DOT and Anzona DOT.

Who is Participating?

The target audience for the multi-agency platform is staff that are responsible for the day-to-day operations and maintenance of I-15. This includes staff at agency transportation management centers or operations centers (IMCs/TOCs) and maintenance districts in California (Caltrans Districts 11 and 8), Nevada (NDOT and RTC FAST), Artzona (ADOT) and Utah (UDOT). Other key stakeholders include those involved with information dissemination, incident response, and work zone management.

There is recognition that other groups can benefit from the improved information exchange and situational awareness for this critical interstate. These include freight operators and dispatch centers, and those involved with major tourism outlets, such as major resorts, recreational areas or event centers.







Identifying Needs and Solutions

The project team is working with each state to identify their priorities for corridor information: what information do neighboring states need? How will that information be used to improve alerts and notifications to travelers? What level of coordination is needed for different types of events? Where are there gaps in information that this project could help to address?

Several key stakeholders are providing important input to the system needs and requirements. The team is working through a systematic process to identify and document needs, develop system requirements based on stakeholder needs, and will prepare a Development and Implementation Plan. One component of this process is to look at available systems and software to see if they align with the priority needs.



Project Timeline

- Phase 1 of the project was completed in May 2015 and involved the
- development of a concept for this web-based sharing platform.

 Phase 2 of the project is currently in progress and is expected to be complete.
- in the Spring of 2016. This phase involves the development of requirements for the functions and interfaces of the platform. This phase also includes
- exploration about how the i-15 platform can benefit the additional freight is tourism stakeholders.
- Future phases will be mapped out following completion of Phase 2.

FOR QUESTIONS OR MORE INFORMATION, PLEASE CONTACT:

Kevin Verre, Nevada DOT Program Manager (K\u00edlerre@dot.state.nvus; 775-888-7712) or Lisa Burgess, Project Manager at Kimley-Horn and Associates (Isa.burgess@kimley-horn.com; 602-318-7605)



❖ I-15 ITS/FAST Improvements











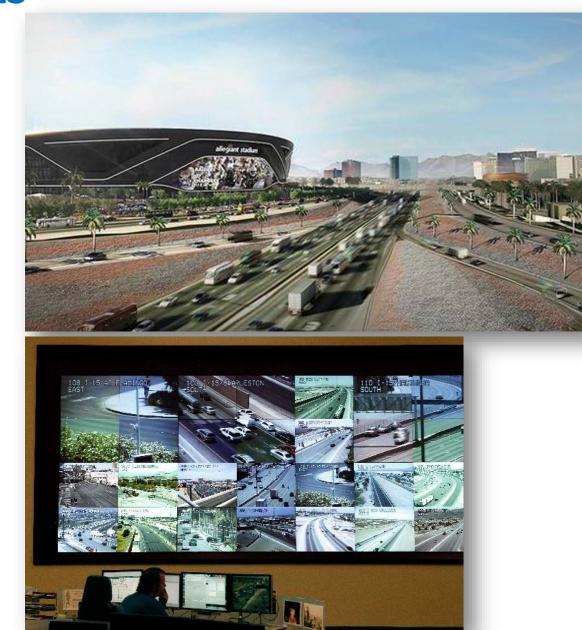






IPIRS - ONGOING PLANNING STUDIES (For Information Only)

- ❖ I-15/Resort Corridor Event Management ("Perfect Storm")
- Region-wide Traffic Signal Optimization/Replacement
- * RTC FAST ITS Master Plan
- ❖ I-15 (Sloan to CA/NV Stateline) Feasibility Study





IPIRS - NEW CAPITAL PROJECTS TO CONSIDER

- Brightline High-Speed Rail Victor Valley, CA to Las Vegas, NV
- ❖ I-15 Project NEON NB Ramp Braiding (Package B1)
- ❖ I-15 Central Corridor (Sahara to Flamingo) PE/NEPA
- ❖ I-15 South Package 2 (Sloan Rd. to Blue Diamond) Widening Construction
- * ATCMTD; I-15 N of Spaghetti Bowl







Discussion of Nevada's Major Project Priorities







I-15 MOBILITY ALLIANCE

ARIZONA
Major Project Priorities
Discussion











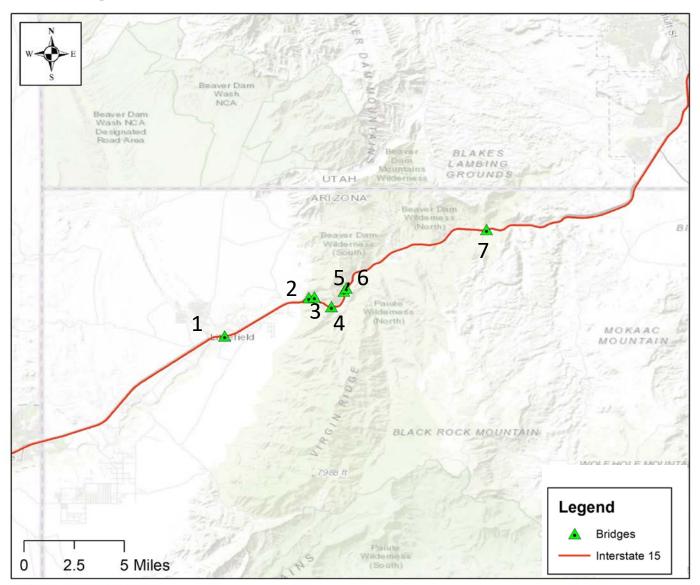
ARIZONA PROJECT PRIORITIES

Virgin River Bridges

- Repairs and deck rehab to Bridges # 2, 4, and 5 completed in 2020
- Bridge #1 replacement under construction, \$73M, estimated completion 2023
- Next priorities:
 - Bridge #5 replacement or superstructure
 - Bridge #7 replacement or superstructure

Other Project Priorities

- Pavement Rehab
- Passing Lanes
- POE Improvements





Discussion of Arizona's Major Project Priorities







I-15 MOBILITY ALLIANCE

UTAH
Major Project Priorities
Discussion





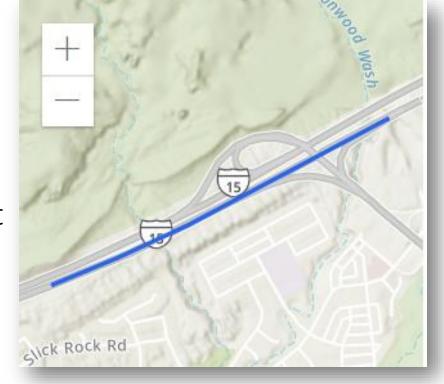






IPIRS – PARTIALLY COMPLETED PROJECTS

- ❖ I-15 Improvement, MP 0 to 16
 - SR-9 (Exit to Zion National Park), MP 13.6-16.2
 - \$28.9M project, construction started in 2019
- ❖ I-15 Improvement, MP 10 to13
 - Widening from 4 to 6 lanes, adding interchange at MP 11; currently in design, 2022/2023 construction
 - Need to add money but considered fully funded
- ❖ I-15 Improvement, MP 6 to 8
 - Widening from 4 to 6 lanes, potential interchange at MP 7; currently in environmental, 2023 construction
 - Need to add money but considered fully funded







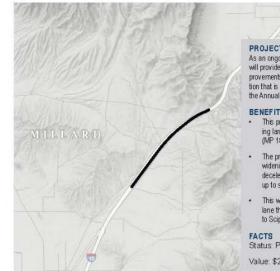
IPIRS - PARTIALLY COMPLETED PROJECTS/UNDER CONSTRUCTION

- Millard County truck climbing lanes, funded, \$37M
 - Baker Canyon Southbound MP 139.59 to 143.30
 - Dog Valley Pass Southbound MP 137.7 to 135.4
 - Northbound MP 135.41 to 136.86
- Washington County truck climbing lanes, MP 37.5 to MP 42, \$24.4M, construction 2019
- Beaver County, Beaver Ridge climbing lanes, MP 98 -102.93, completed
- Millard County: northbound climbing lane from US-50 to Scipio Pass (MP 180.2 to 184). In planning phase; \$22.5M needed



1-15 NORTHBOUND CLIMBING LANE

Millard County - South of Scipio



the Annual Average Daily Traffic)

- This project will add a northbound climbing lane from US-50 to Scipio Pass
- This will compliment a previous climbing to Scipio Pass.

Status: Planning

Value: \$22.5 million needed







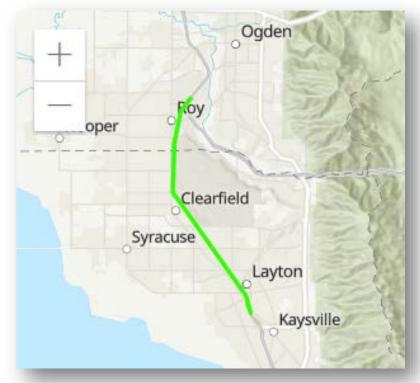






IPIRS - COMPLETED PROJECTS

- ❖ I-15 HOV/HOT Lanes, Layton to Riverside
 - Construction 2019-2021, almost fully operational
- ❖ 5600 W. Access to Intermodal Facility
 - Improvements at UP mainline crossing, widening, intersection improvements
 - Construction completed 1/2022
 - Completing minor utilities, landscaping



https://www.udot.utah.gov/projectpages/f?p=250:2007 :::NO::P2007_EPM_PROJ_XREF_NO,P2007_PROJECT_TY PE_IND_FLAG:11271,A



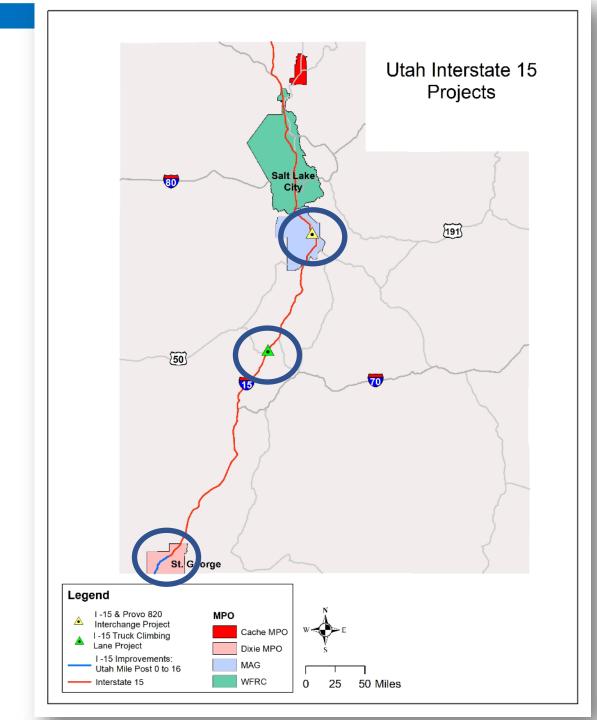






IPIRS - NEW CAPITAL PROJECTS TO CONSIDER

- ❖ I-15/Provo North Interchange
- Frontrunner Double Tracking & First/Last Mile Improvements
- ❖ I-15/Bingham Rd. (MP 4)
 Roundabout
 Reconstruction/Reconfiguration
 (in planning)





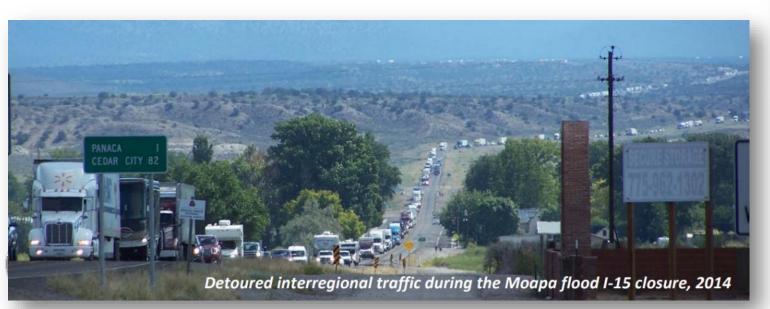
Discussion of Utah's Major Project Priorities

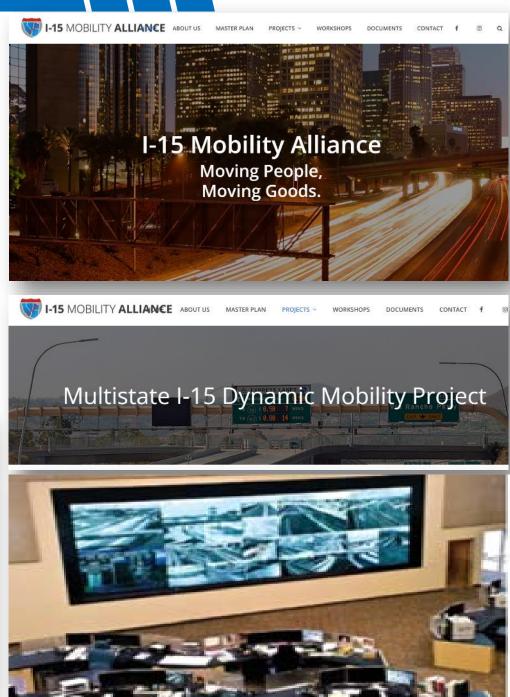




IPIRS – STUDIES COMPLETED OR IN PROGRESS

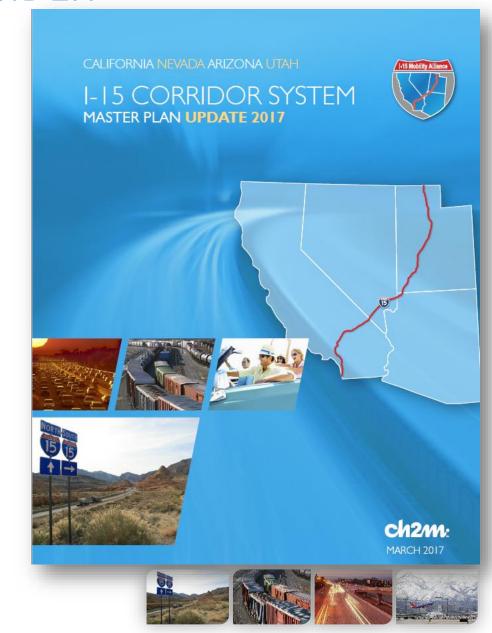
- ❖ I-11 Corridor (AZ/NV)
- ❖ I-15 Alternative Route Study (CA/NV/AZ/UT)
- ❖ I-15 Dynamic Mobility Project
- Expansion of ITS Digital Backbone, UT





IPIRS - NEW PLANNING STUDIES TO CONSIDER

- ❖ I-15 Dynamic Mobility Project: Multi-State ITS Architecture (CA/NV/AZ/UT) – next gen
- I-15 Mobility Alliance Program Management
- Alternative Fuel Corridor Implementation
- Smart Truck Parking Study, CA, NV & UT (partially completed – I-15 Freight MEP, CA & NV)





- Questions/Discussion
- Next Steps





THANK YOU



ALLIANCE

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