

Nevada Freight Advisory Committee (FAC)

Meeting Summary

The FAC is made up of representatives from private sector companies and public agencies. Together, the Committee discusses topics that impact freight transport in Nevada, and provide NDOT with guidance. Meetings are held in video conference rooms across the state with a webinar link available to those not conveniently located near a meeting site. This meeting was held primarily to discuss one ongoing study: the Truck Parking Implementation Plan. Brief updates were also provided for the following studies by those listed below:

- I-11 Northern Nevada Alternatives Analysis Planning and Environmental Linkages Kevin Verre, NDOT Assistant Chief, Multi-Modal and Program Development
- One Nevada Plan Tim Mueller, NDOT Transportation Planner, Transportation/Multimodal Planning
- State Rail Plan Update Lee Bonner, NDOT State Railroad Coordinator
- Hazardous Commodity Flow Study David Willauer, Cambridge Systematics

The date, time, and locations of the meeting are indicated below, followed by a list of participants. A summary of the discussion held on various topics is recorded below, and the complete presentation is attached at the end.

DATE: November 6, 2018 TIME: 9:00 – 11:00 am (Pacific Time)

LOCATIONS: Carson City NDOT HQ, Room 302 1263 S. Stewart St.

Sparks

NDOT District II Main Conference Rooms (north & south) 310 Galletti Way

Las Vegas NDOT District I Bldg. D Conference Room 123 E. Washington Ave **Tonopah** NDOT District I, Conference Room 805 Erie Main

Elko NDOT District III, Conference Room 1951 Idaho St.

Winnemucca NDOT District III, Conference room 725 W. Fourth St.

Ely NDOT District III, Conference room 1401 East Aultman Street

Webinar



Meeting Participants

Company/Agency	Name	Meeting Location	
Atkins	Mike Lawson	Webinar	
ATRI	Alexandra Shirk	Webinar	
Cambridge Systematics	Dan Andersen	Las Vegas	
Cambridge Systematics	Mark Jensen	Webinar	
Cambridge Systematics	Brian Stewart	Webinar	
Carson MPO	Dirk Goering	Webinar	
Cast Transportation	Pat Locasto	Las Vegas	
CBRE Brokerage Services	JJ Peck	Webinar	
Churchill County	Dean Patterson	Webinar	
City of Henderson	Eric Hawkins	Webinar	
City of Las Vegas	Rick Schroder	Webinar	
City of North Las Vegas	Tera Anderson	Webinar	
City of North Las Vegas	Mike Hudgeons	Las Vegas	
Clark County	Jennifer Robinson	Webinar	
Dielco Crane Service, Inc.	David Dieleman	Las Vegas	
National Association of Truck Stop Operators	Tiffany Wlazlowski Neuman	Webinar	
NDOT	Emil "B.J." Almberg	Ely	
NDOT	Lee Bonner	Carson	
NDOT	Mark Costa	Carson	
NDOT	Juan Hernandez	Carson	
NDOT	Jason Love	Webinar	
NDOT	Dean Morton	Carson	
NDOT	Tim Mueller	Carson	
NDOT	Coy Peacock	Webinar	
NDOT	Sondra Rosenberg	Carson	
NDOT	Joe Spencer	Webinar	
NDOT	Bill Story	Carson	
NDOT	Bill Thompson	Carson	
NDOT	Kevin Verre	Carson	
NDOT	Dwayne Wilkinson	Las Vegas	
NDOT	Mark Wooster	Carson	
Nevada Highway Patrol	Clay Madsen	Las Vegas	
Nevada Highway Patrol	Donald Plowman	Carson	
Nevada Trucking Association	Kim Yaeger	Sparks	
Nye County	Steve Rosenbaum	Las Vegas	
RTC of Southern Nevada	Beth Xie	Webinar	
RTC of Washoe County	Amy Cummings	Sparks	
RTC of Washoe County	Daniel Doenges	Webinar	
Travel Centers of America	Tom Liutkus	Webinar	
TSPS	Scott Grenerth	Webinar	
TSPS	Carl Rundell	Webinar	
	Mac Potter	Webinar	

Summary of Discussion

The parking demand estimate for Reno is much higher when I-80 is closed over Donner Pass.

Will the study estimate future demand for parking?

- Yes. We first need to establish current demand, and then will expand that based on projected truck volumes.
- The Statewide travel demand model includes truck volumes, but it is not comprehensive.

North Carolina built a single rest area in the center median of an interstate, in lieu of one on either side, reducing capital and maintenance costs. Truck drivers like it.

 FHWA generally discourages center-median sites due to the safety concerns with entering/exiting from the higher speed lane.

Can we expand parking through partnerships with Walmart and other big boxes?

- In some cases the property may not be owned by Walmart or the big box. To make those arrangements you may need to discuss with large real estate companies.
- On a previous study, the consultant contacted Walmart headquarters and were told that the decision to allow truck parking was up to each individual store.

Could stadiums, schools, or other public venues with large parking lots be used?

 Yes, that is an option. Caltrans paved the Auburn Fairgrounds in exchange for allowing trucks to park there, especially when Donner Pass is closed.

We have heard that warehouse distribution facilities are opposed to adding truck parking on-site due to liability concerns. This could likely be an obstacle with any big box or public facility parking lot.

Driver safety and cargo theft are very important considerations for any parking facility

The Virgin River Mart in Mesquite has 100 parking spaces that they charge drivers to use.

Open Discussion

A request was made to discuss rail in Eastern Nevada at the next FAC meeting.



Freight Advisory Committee Meeting

November 6, 2018

Agenda	Items (with approximate times)		
Time	Торіс	Facilitator(s)	
9:00	Welcome and Introductions	Bill Thompson, NDOT	Agenda
9:10	 Project Updates I-11 Northern Nevada Alternatives Analysis Planning and Environmental Linkages State Rail Plan Update One Nevada Plan Hazardous Commodity Flow Study 	 Kevin Verre, NDOT Lee Bonner, NDOT Tim Mueller, NDOT David Willauer, CS 	
9:30	 Truck Parking Implementation Plan FHWA Truck Parking Roundtable, Nov. 15 in Las Vegas Review and discuss assessment of needs Supply, demand, and gap analysis of long haul, short-term, and emergency needs Review and discuss a broad range of possible solutions 	Dan Andersen, Cambridge Systematics	
10:45	 Open discussion Additional freight-related topics or questions, Next Meetings 	Bill Thompson, NDOT	
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I-11 Northern Nevada Alternatives Analysis Planning and Environmental Linkage Freight Advisory Committee Meeting November 6, 2018



I-11 Corridor Background



Intermodal Surface Transportation Efficiency Act (ISTEA)

The CANAMEX Trade Corridor, connecting Mexico and Canada, was outlined in the ISTEA highway bill, which established a series of High Priority Corridors to as part of the proposed National Highway System, including corridor #68 Washoe County, which outlined a route connecting Las Vegas and Reno.—

North American Free Trade Agreement (NAFTA)

Establishes trade and manufacturing opportunities between the U.S., Canada, and Mexico, increasing the importance of creating a north-south connection in the Intermountain West. 1994

2010

WE ARE HERE

National Highway System

As proposed in ISTEA, Congress formally established the National Highway System, which allowed individual states to receive funding for interstate improvements.

Mike O'Callaghan-Pat Tillman Memorial Bridge

Bridge bypassing the Hoover Dam eliminates a major bottleneck on the CANAMEX corridor.

I-II and Intermountain West Corridor Study-

Arizona and Nevada validate the I-11 Corridor on US 93 between Wickenburg and Las Vegas, and define a wide corridor for further study from Wickenburg to Nogales, and from Las Vegas to I-80.

Fixing America's Surface Transportation (FAST) Act

The future I-11 designation is officially extended south to Nogales and Las Vegas to I-80 in federal transportation legislation.

I-II Northern Nevada Alternatives Analysis-

Advanced study of the Northern Nevada connectivity option recommended in the I-11 and Intermountain West Corridor Study. This includes alternatives development, analysis, and evaluation of corridor options between Las Vegas and I-80, including an updated Planning and Environmental Linkages (PEL) document, with the goal of identifying recommended corridor(s) to advance into future NEPA studies.

I-II Corridor Tier I EIS

Formal National Environmental Policy Act environmental review process begins on the I-I I Corridor Study, from Nogales to Wickenburg, Arizona, with the goal of identifying a Preferred Corridor Alternative.

Moving Ahead for Progress in the 21st Century Act (MAP-21)

Future I-11 from Phoenix to Las Vegas is designated in federal transportation legislation.

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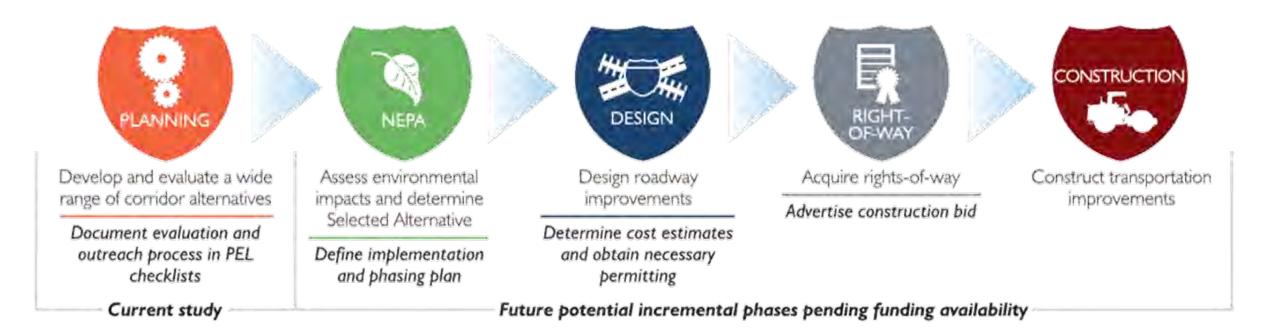
2016

2018

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Project Development Process

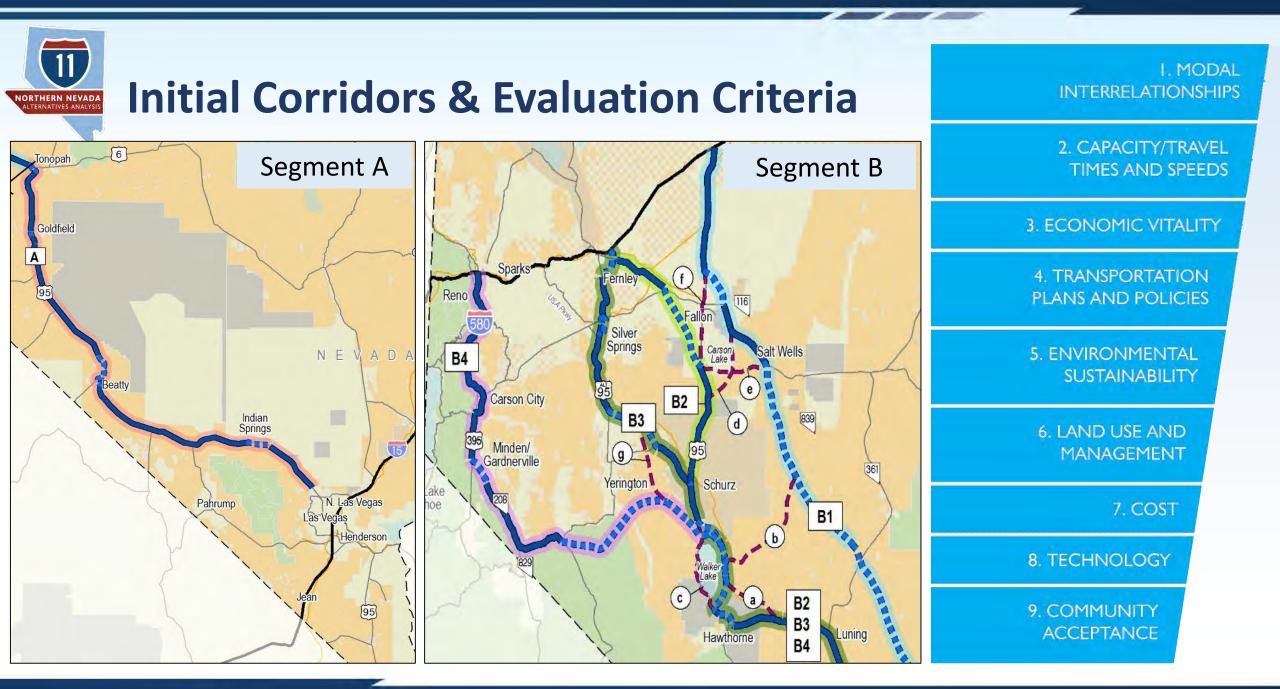




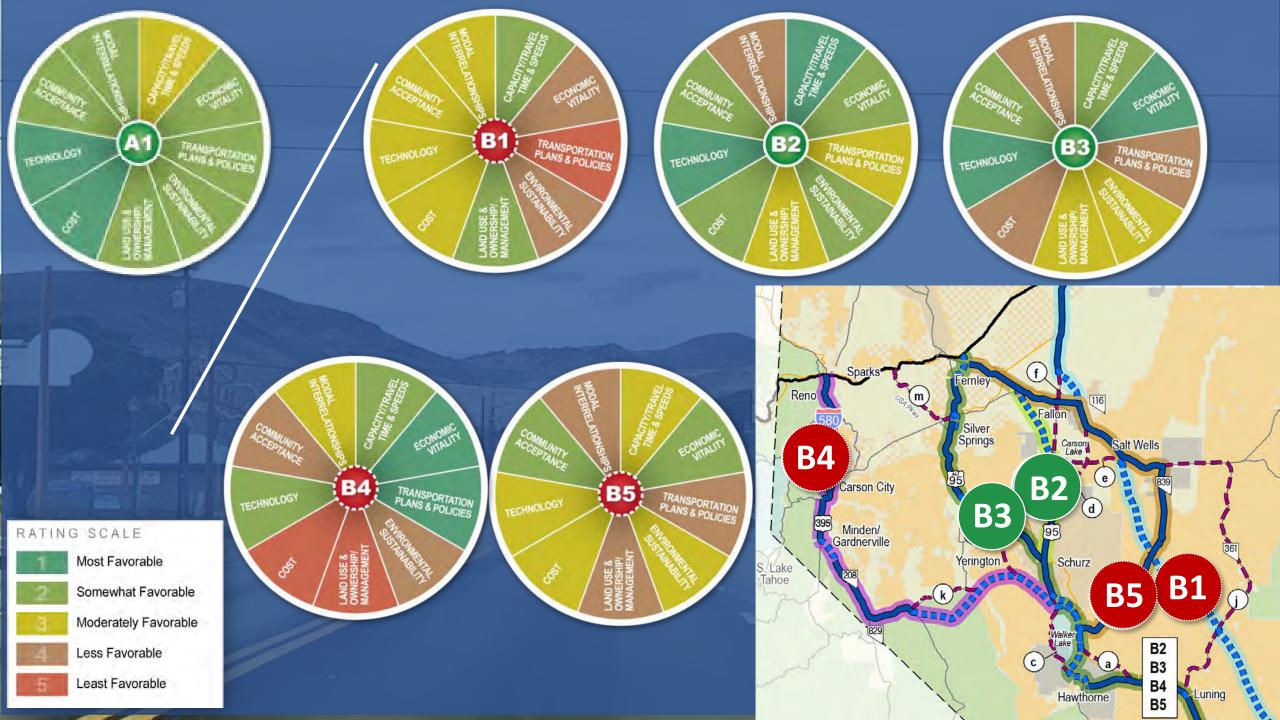
The Big Picture – Study Goals

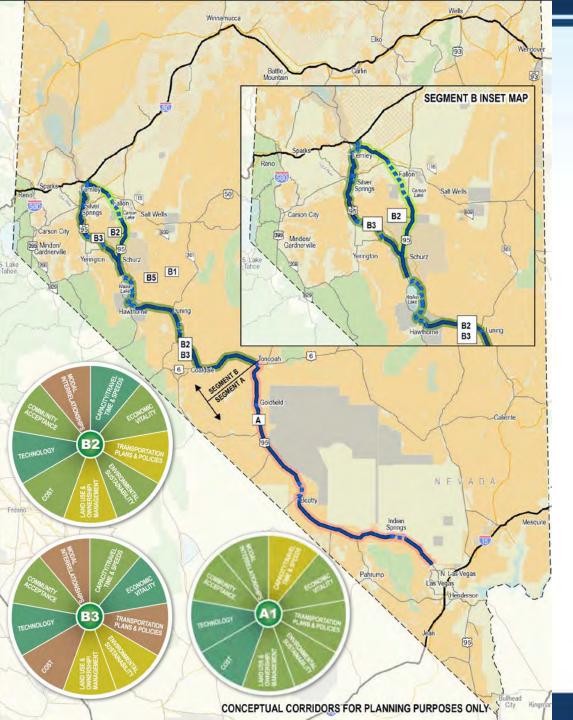
- <u>Advance</u> I-11 through a federally recognized, collaborative process to identify the most promising potential corridors
- <u>Document</u> issues and opportunities to inform and streamline future NEPA processes
- Formulate a plan to advance I-11 over the next 10-20 years

Prepare Nevada with identified corridors for preservation should a federal lands bill advance



We held 6 community meetings with over 400 attendees back in March. We held 7 community meetings with over **300 attendees** in July/August. **Consistent Topics:** • Corridor alternative concerns • What happens to my town? • What happens north of I-80?





Corridor A1, B2 and **B3** provide an excellent future link into the I-80 system complementing existing facilities.

These corridor recommendations will help state and local communities supplement the economic development plans that target community investments.

Next Steps:

- Public comment period for the Alternatives Analysis Report ends November 8th
- State Transportation Board and Federal Highway Administration approvals
- Continue to work with communities along the alignment to help them plan for the future





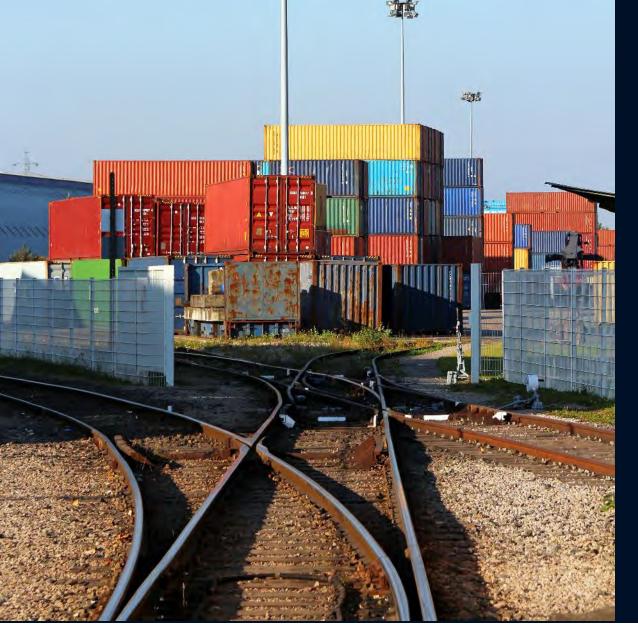
2020 State of Nevada State Rail Plan Update

Lee Bonner Nevada Department of Transportation









Feasibility Study

- TRI Center Development
- Fernley Multimodal Transportation Center

Rail Plan Update

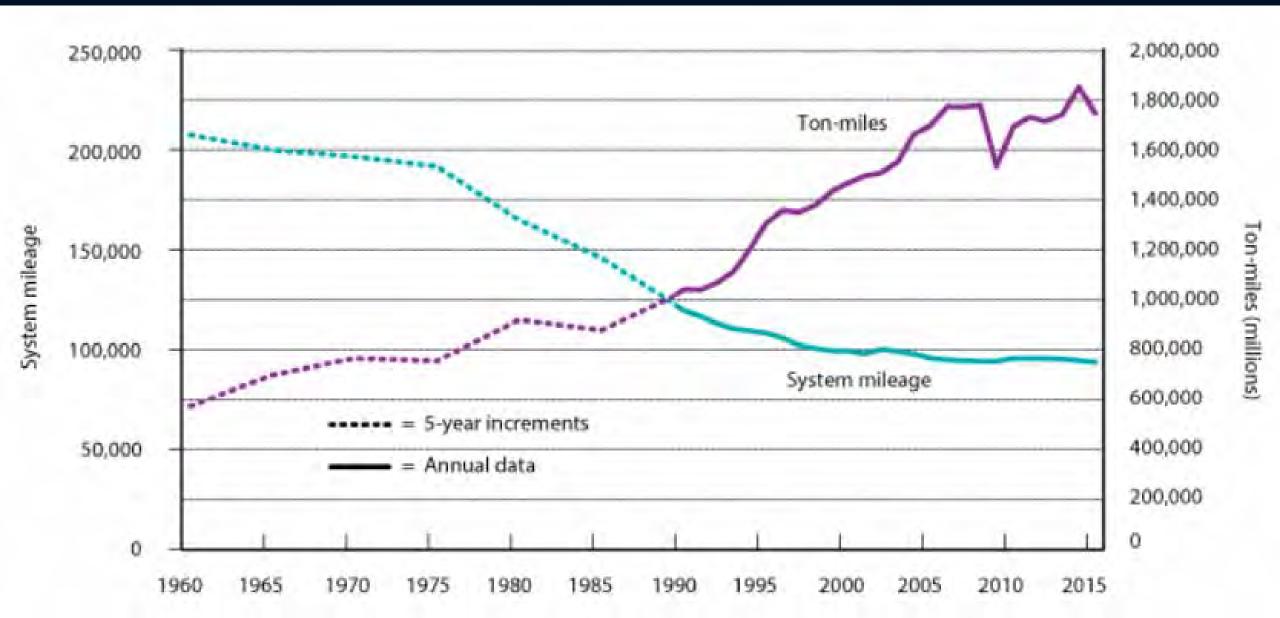
- 2045 Vision for Rail Nevada
- Evaluate freight flows
- Evaluate passenger needs
- Identify future rail asset needs
- Possible change to NRS







Class 1 Railroad System Mileage vs Ton-Miles of Freight



Corridors

Los Angeles to Las Vegas

Bay Area to Reno

Reno to TRI Center

Bay Area to Truckee











Light Rail Passenger

- Urban Commuting
- McCarran Airport
- Tourism
- Reno to TRI







Freight Focus

- Multimodal Facilities
- Improved access to facilities
- Shift freight off roads
- Dismantled Rail Program
- Rural Nevada











Additional Thoughts

Connect State Plans One NV / Freight / Corridor

Evaluate High Speed Rail

Expand Rail Economic Drivers

Rail Crossing Safety







Rail Plan Direction

- Next Phases
- New Studies
- Freight Opportunities
- New Partners
- Passenger







There is a light at the end of the tunnel...







... lets hope its a train!

Contact Lee Bonner 775.888.7122 Ibonner@dot.nv.gov







Freight Advisory Committee (FAC) November 6, 2018



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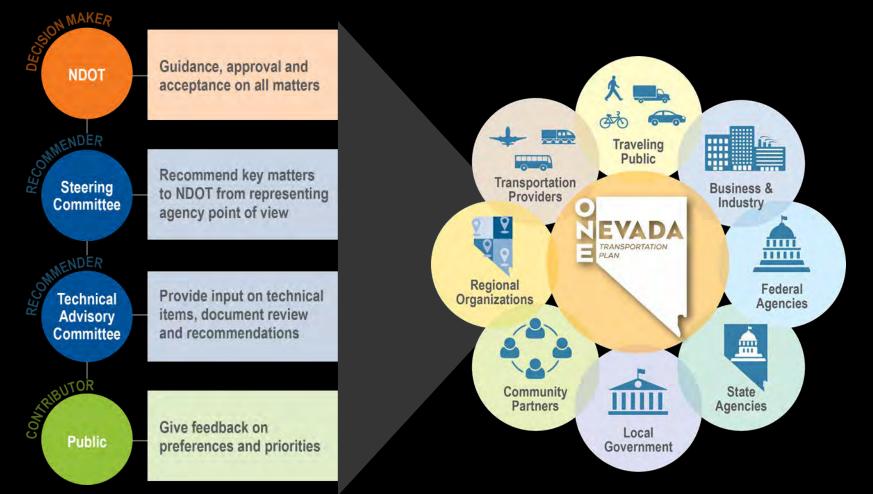


Public Involvement





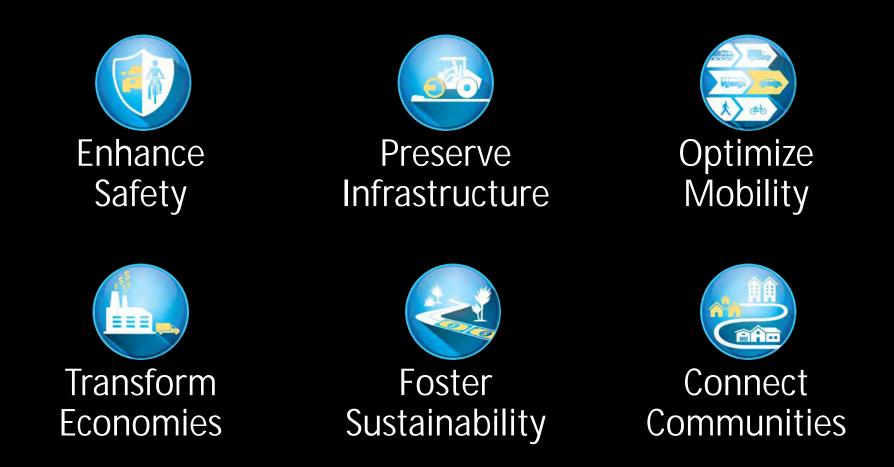
Agency Engagement







One NV Transportation Plan Goals





Performance & Prioritization

Aligning projects to One Nevada Transportation Plan Goals

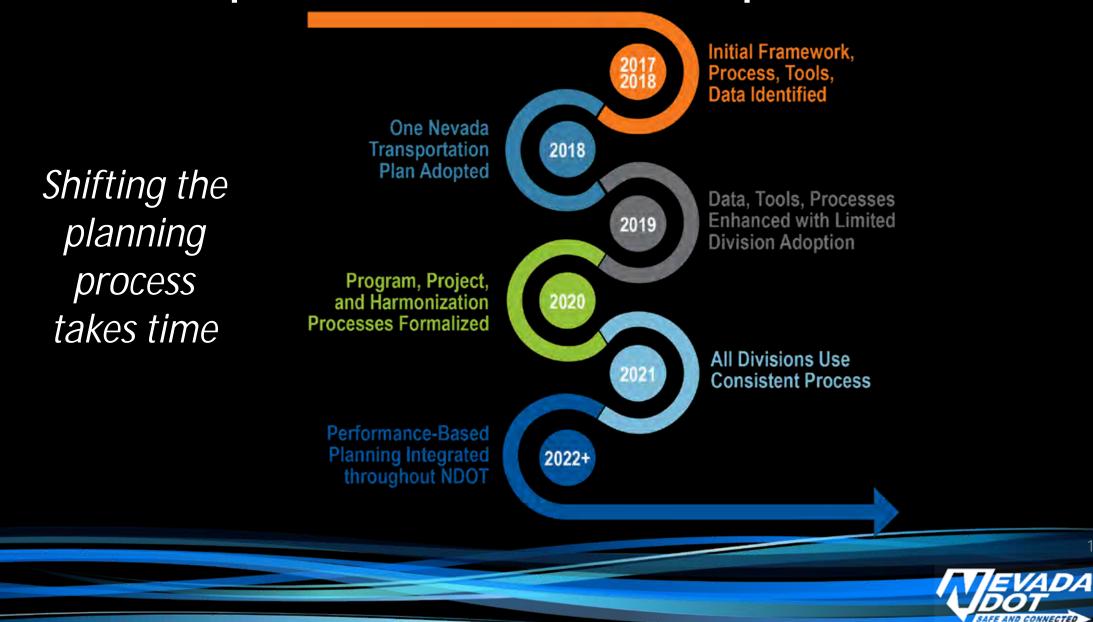


EVADA

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Implementation Roadmap



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Nevada Department of Transportation Hazardous Commodity Flow Study Nevada FAC Meeting - November 6, 2018

November 6, 2018

presented by

David Willauer, Cambridge Systematics, Inc.





Chemical Selection Process Details

Purpose

- Facilities reported over 18,000 toxic and flammable chemicals stored at more that 2,300 locations in Nevada. With so many chemicals in transport, the CS Team focused on priority chemicals that pose the greatest health and safety hazards to the public.
- Identifying priority chemicals also helps to determine which facilities to contact for additional hazmat routing, frequency and volume data.

Proposed Top Ten Chemicals

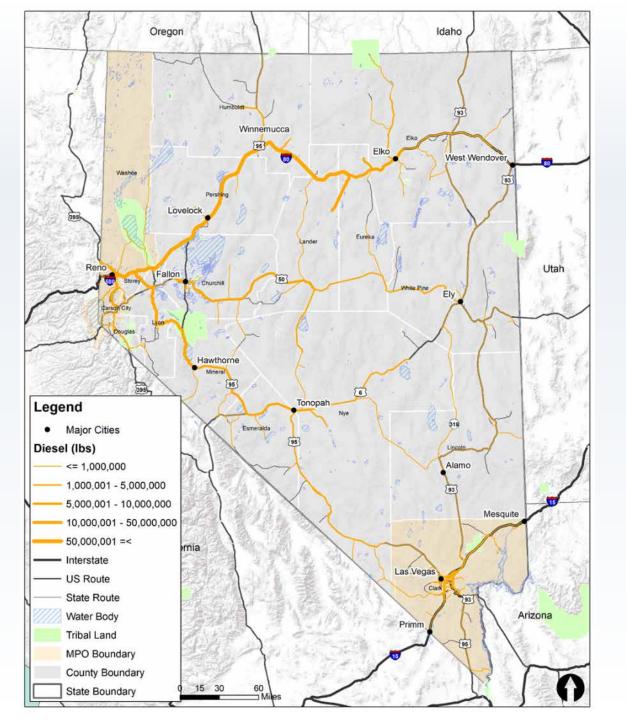
	Chemical Name	Score	Chemical Uses	Facilities	EHS
1	Ammonia, Anhydrous	4	Refrigerant, fertilizer	18	Yes
2	Butane	4	Fuel and blending	6	No
3	Chlorine	7	Water treatment	6	Yes
4	Ethanol	1	Biofuel	5	No
5	Hydrofluoric acid	4	Manufacturing	8	Yes
6	Nitrogen Dioxide	6	Catalyst, oxidizing agent	2	Yes
7	Potassium Cyanide	4	Mining and electroplating	2	Yes
8	Propane	3.5	Fuel and heating	7	No
9	Sodium Cyanide	4	Mining operations	18	Yes
10	Titanium tetrachloride	4	Titanium, whitening	4	Yes

Next Steps for Top Ten Chemicals

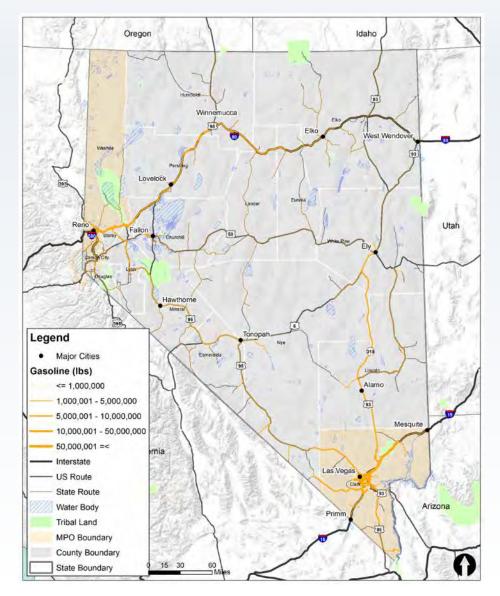
- Identify hazmat facilities storing top ten chemicals
- Identify distribution centers and manufacturers
- Conduct outreach to top ten hazmat facilities
- Obtain origin-destination information from multiple sources
- Develop top ten chemical maps

Petroleum Supply Chain Methodology

- Nevada refined petroleum is produced in California and Utah
- Refined Petroleum is transported to Nevada via pipelines.
- Petroleum is primarily stored in Reno and Las Vegas
- Trucks transport refined petroleum to retail facilities



Petroleum Distribution



Questions

THANK YOU!

Contacts:

Bill Thompson <u>bthompson@dot.nv.gov</u> 775-888-7354

David Willauer dwillauer@camsys.com

301-347-9135

Truck Parking Implementation Plan

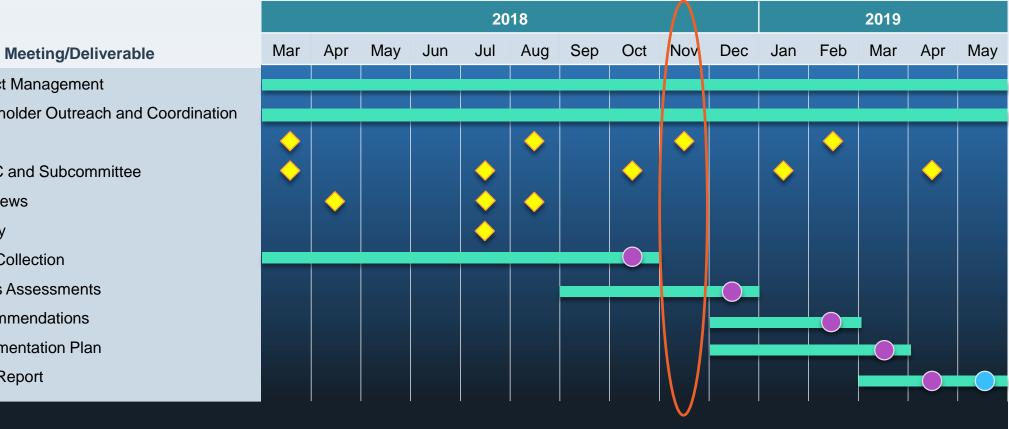


Project Objectives

Develop an implementation plan for expanding, improving and integrating freight truck parking and communications systems

- » Once complete, these improvements will provide adequate and safe public truck parking where it's most needed, full-service private truck facilities, and real-time truck parking availability information
- » Response to rising demand, changing hours of service requirements and safety standards defined in Jason's Law

Project Schedule





Project Management

Task

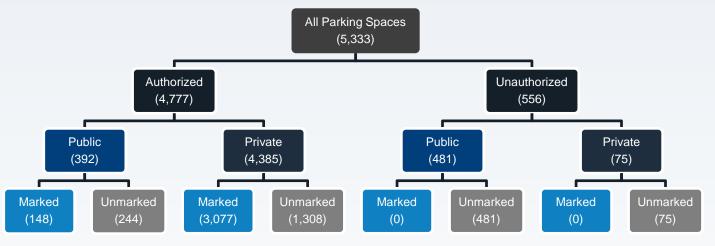
1.

Project Progress – Needs Assessment



Parking Supply

 Truck parking supply – approximately 5,333 spaces at 170 locations



Needs Assessment

Nevada Truck Parking Implementation Plan Task 4: Draft Needs Assessment -Truck Parking Supply IFE AND CONNECTE principal by Cambridge Systematics, Inc. Nevada Department of Transportation American Transportation Research Inskiule Horrocka Engineers Salver State Traffic Data Collection October 1, 2018

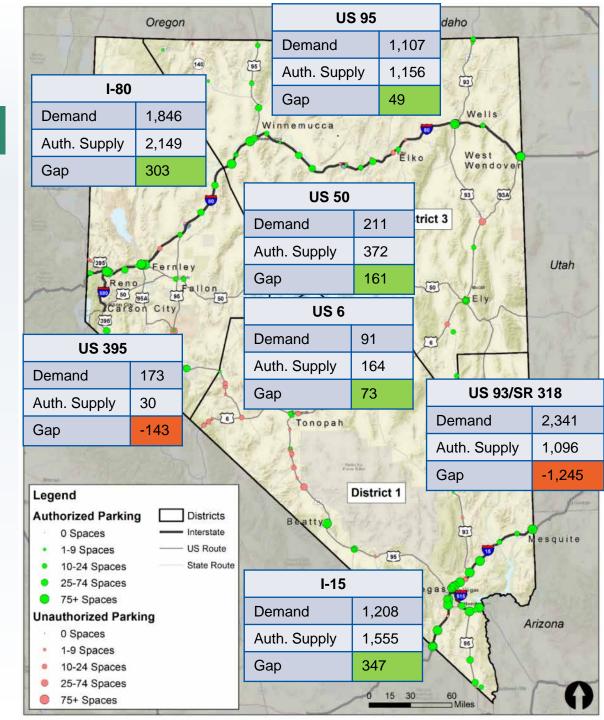
Parking Demand

FHWA Model

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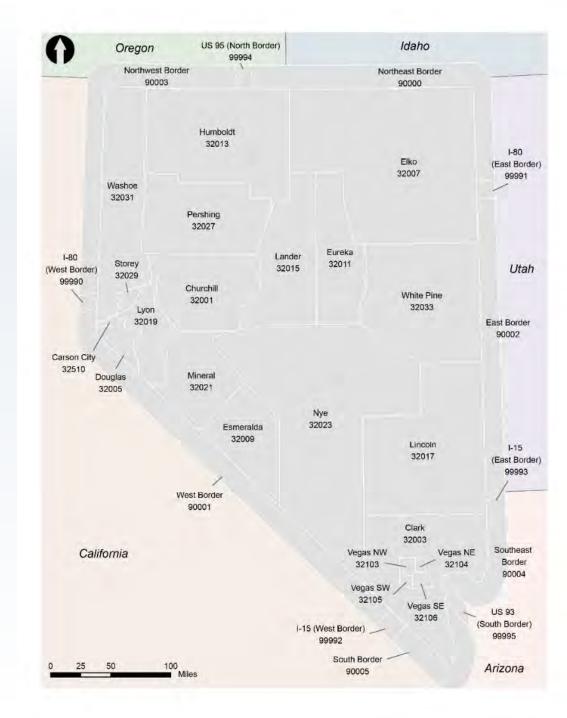
- » Limitations
 - Single average speed
 - Corridor average volume may cause overestimate due to urban area volume
 - Demand spread evenly along corridor
 - Limited ability to account for entry/exit points mid-corridor

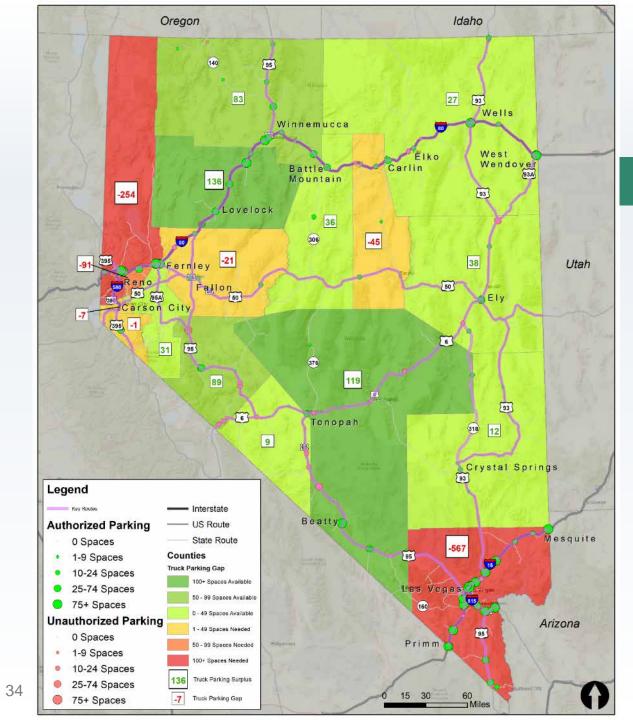
Measure	Truck Parking Spaces
"Total" Demand	6,976
Supply by Corridor	7,156
Actual Spaces Statewide	5,333
Actual Authorized Spaces	4,777
Statewide Gap (authorized)	-2,199
Statewide Gap (all)	-1,643



Parking Demand

- ATRI Origin/Destination Analysis
 - » County zones (except Clark County) and entry/exit buffer zones
 - » Identify trucks that enter the state on I-15, I-80, US 93 and US 95
 - Identify stops of 4+ hours by county, calculate % of stops in each county for each route
 - » Apply % to NDOT Truck Volumes on those routes to determine where in Nevada trucks are stopping
 - » Also examined if trucks starting in the largest volume areas (Clark, Washoe counties) should have trips distributed on corridors:
 - Over 99% of the trucks originating in Clark County are either exiting the state or have their next stop of 4+ hours in Clark County
 - Over 96% from Washoe County either exit the state or have their next stop in Washoe County
 - Very few trucks starting a trip within Nevada require long-term parking on one of the corridors





Parking Demand

- Truck Parking Gap by County using ATRI O/D analysis (based on authorized parking locations only)
 - » 567 spaces needed in Las Vegas Metro
 - » 254 spaces needed in Reno Metro
 - » 91 spaces needed at TRIC
 - » 45 spaces needed between Carlin & Battle Mountain
 - » 21 spaces needed between Fernley & Lovelock
 - » 136 surplus in Pershing County
 - » 119 surplus in Nye County

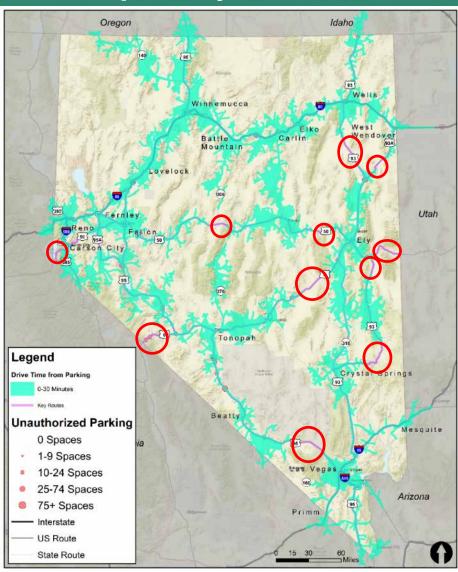
Gap Analysis

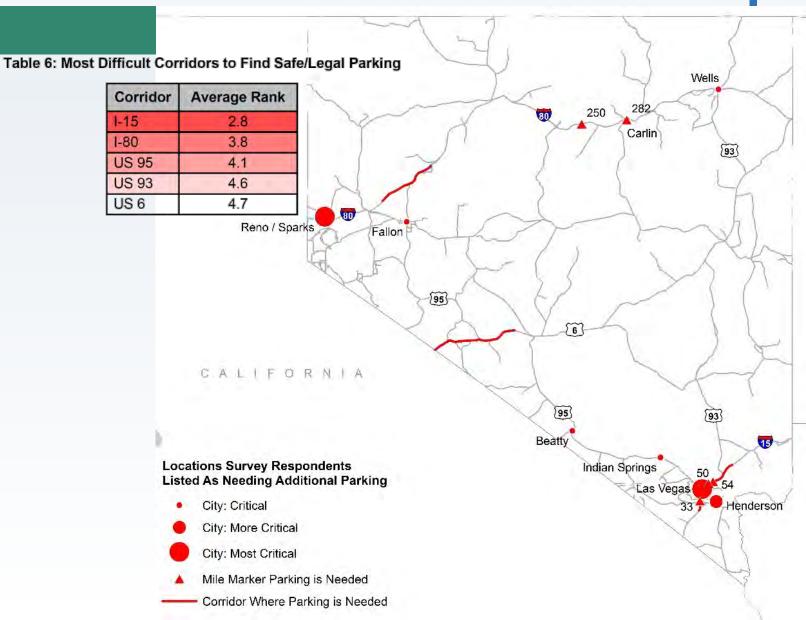
	I-80	I-15	US 93 (SR318)	US 95
FHWA Demand	1,846	1,208	2,341	1,107
O/D Demand (4+ hour stop)	1,986	1,716	1,065	105
O/D Demand (all stop)	4,902	5,297	1,621	285
Parking Supply (authorized)*	2,149	1,555	1,096	1,156
Parking Supply (all)*	2,315	1,971	1,211	1,522

*Supply is identified by corridor. Total supply is lower due to some facility's location on multiple routes

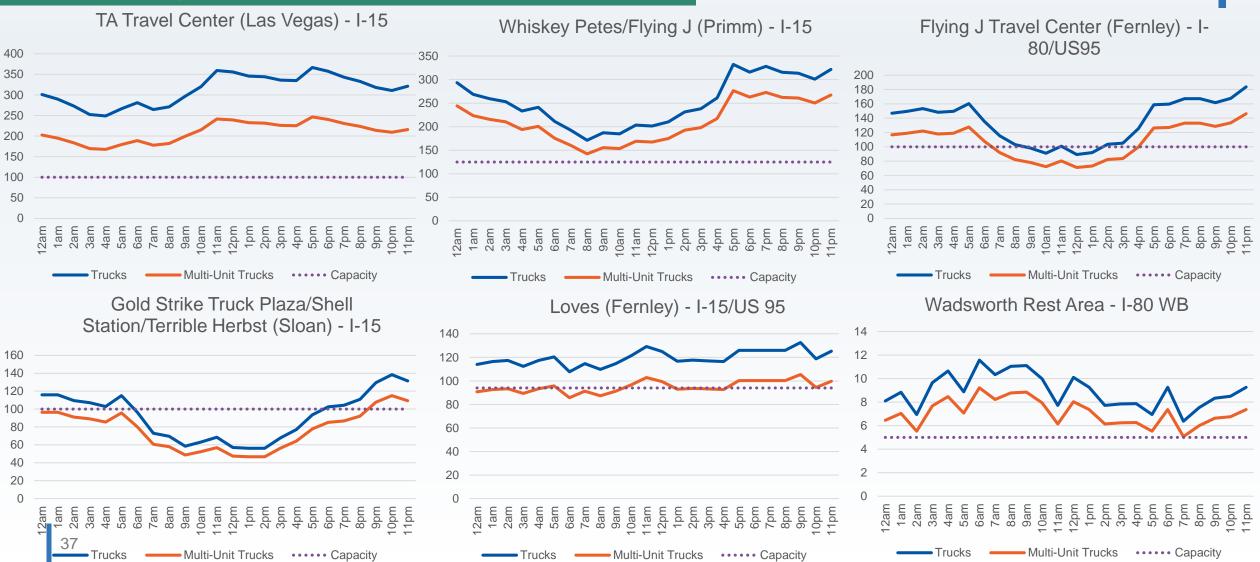
 FHWA model uses corridor average – includes high volumes where US routes are concurrent with Interstates

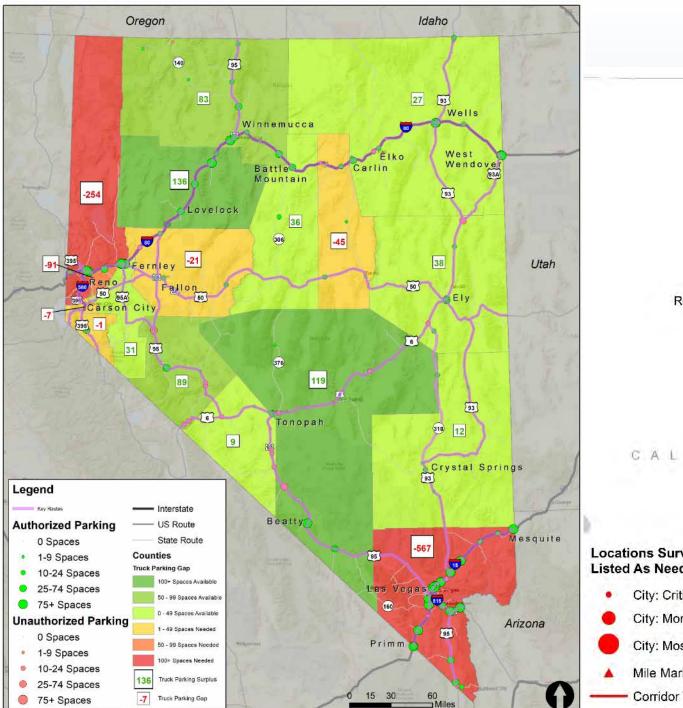
Gap Analysis



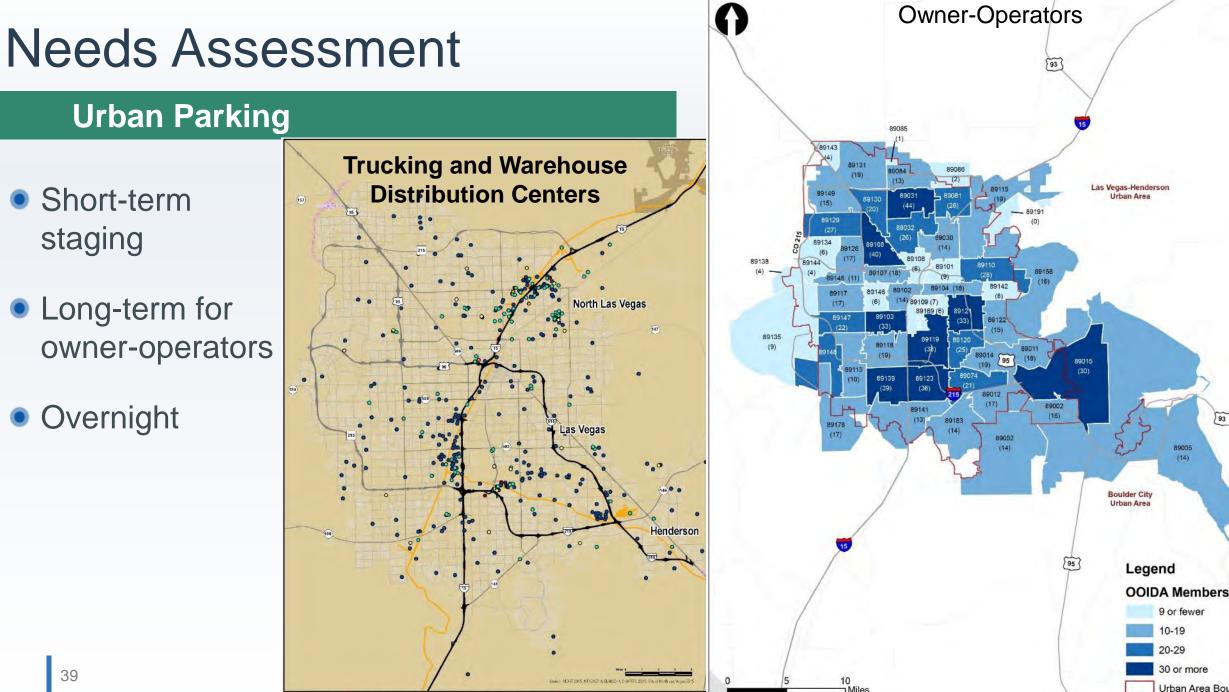


Parking Utilization









93 (

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9 or fewer 10-19 20-29 30 or more

Urban Area Boundary

^{1 - 19} Employees 20 - 99 Employees O 100 - 299 Employees 0 300 - 599 Employees 600+ Employee

Range of Solutions



Lower-cost Rural Solutions

- Improve existing authorized public lots
 - » Additional spaces
 - Features (pave/grade, bathrooms, lighting, fencing)
- If needed, improve/convert unauthorized locations to authorized
 - » Improve entry/exit
 - » Features (pave/grade, bathrooms, lighting, fencing)
- Utilize existing ROW
 - Construction staging, abandoned rest areas
- Possible design template for improving Interstate on/off ramps
- Convert any existing rest areas (at risk of closure) to truck-only
- Add parking to weigh stations

Range of Solutions



Parking at Weigh Stations I-40/I-85 (North Carolina) Source: CS

Eastbound Parking

Urban Parking: Short-term/Staging and Long-term Owner-operator

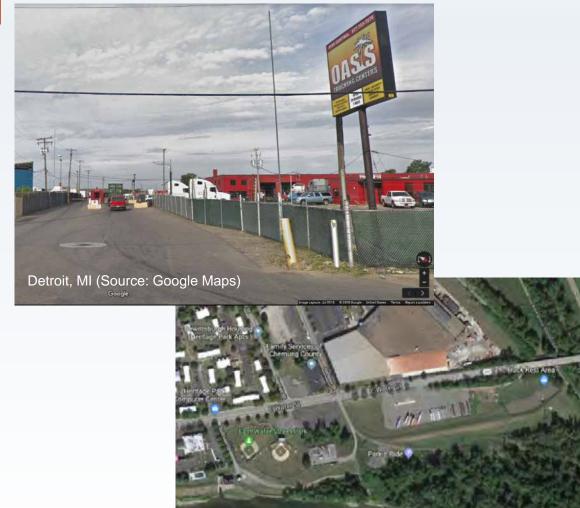
Who pays for it??

- Private truck stops
 - » No business case for having multiple facilities in the same market
 - » Adjacent land for expansion is either too costly or not available

Public

- » Transportation funds over-burdened
- Drivers
 - » Slim margins

Range of Solutions



Elmira, NY Public Truck Stop (Source: Google Maps)

Urban Parking: Short-term/Staging and Long-term Owner-operator

- Land Use/Zoning Requirements
 - » Example from Lehigh Valley, PA
- Common/shared Lot
 - » Pooled fund approach industrial areas
 - Staging area in Brampton, Canada for rail intermodal
 - Each business has X reserved spots help pay towards O&M.
 - Share a single dispatcher between multiple companies to coordinate movements between lot and businesses
 - » Industry tax per bay or sq ft
 - » Driver usage fee
 - » Public land

Range of Solutions

Chapter 27: Zoning

L Part 6 OFF-STREET PARKING AND LOADING

§ 27-601 Required Number of Parking Spaces.

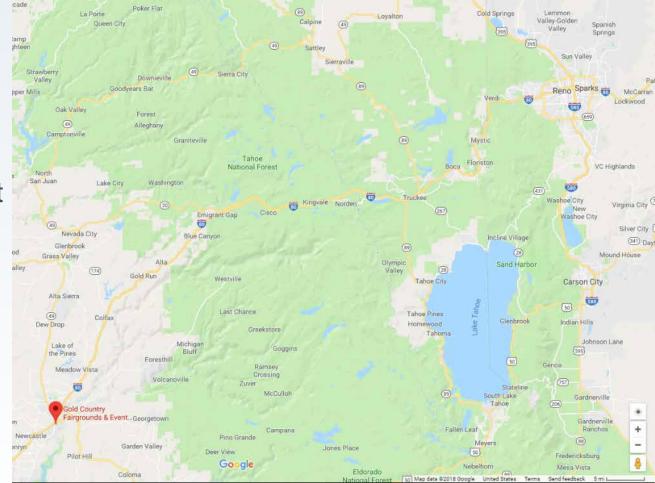
Use		Number of Off- Street Parking Spaces Required	Plus 1 Off-Street Parking Space for Each:
E	Industrial Uses: All industrial uses (including warehousing, distribution, truck terminals and manufacturing)	In addition to parking or storage needed for maximum number of vehicles stored, displayed or based at the lot at any point in time, which spaces are not required to meet the stall size and aisle width requirements of this Chapter: 1 per 1.2 per employee, based upon the maximum number of employees on site at peak period of times (including any overlapping shifts) plus ten-foot by eighty-foot truck staging parking space for each 1/2 of a required loading space	1 visitor space for every 10 managers on the site
Self-	Storage Development	1 per 15 storage units	employee

https://ecode360.com/14517474

Range of Solutions

Solutions – Emergency Parking

- Maryland allows commercial vehicles to use commuter and park and ride lots when there is 6+ inches of snow
- Colleges/sports stadiums especially if public money was used to help construct them
- Caltrans has an arrangement with the Fairgrounds in Auburn to allow trucks to park when Donner Pass closes



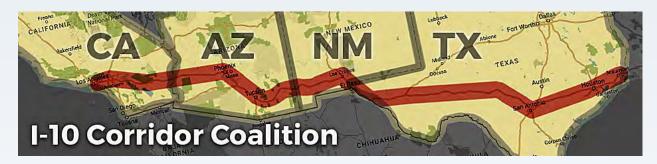
- Recent Technology Examples of Interest
 - I-10 Corridor Truck Parking Availability System
 - NDOT I-15 DMA Project
 Freight Information Test
 - Elements of FRATIS
- Conceptualizing a Technology Solution
 - Potential System Elements
 - o Operational Scenario

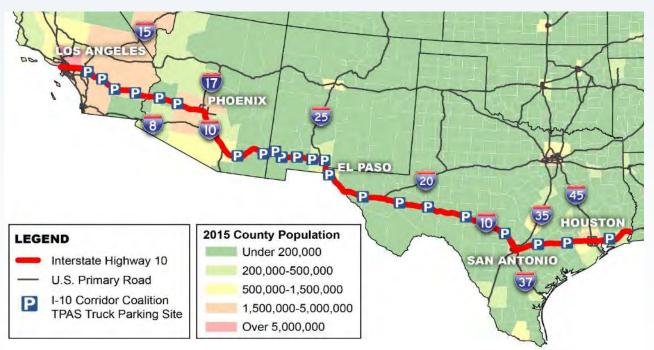
Technology Solutions

ENTER

GUABANTEE

I-10 Corridor Coalition's Truck Parking Availability System (TPAS)



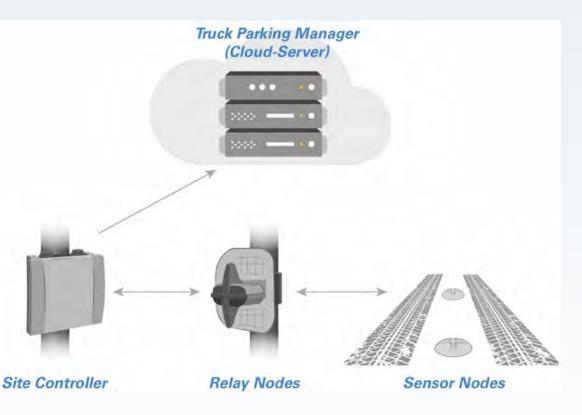


The I-10 Corridor Coalition includes four state DOTs (CA, AZ, NM, and TX) that are organized under a charter and operating agreement.

The I-10 Corridor Coalition has developed a ConOps for the TPAS, and has submitted and 2018 ATCMTD Grant Application to support TPAS Deployment

TPAS Truck Parking System Technology

- In-Ground Sensor Nodes: Wireless, lithium battery (with a life of 7 to 10 years) powered in-ground sensors to determine space occupancy. Two deployed per truck parking space to improve accuracy in detecting smaller trucks;
- Relay Nodes: Wireless, lithium battery powered. Attached to poles at site to collect data from sensors. The number required depends on site layout;
- Data Collector: Powered, one per site. Aggregates all data from relay nodes and transmits to a central location for processing; and
- **Truck Parking Management System**: Offsite. Data processing, performance and system management, and connection to information dissemination system



TPAS Dynamic Parking Capacity Signs

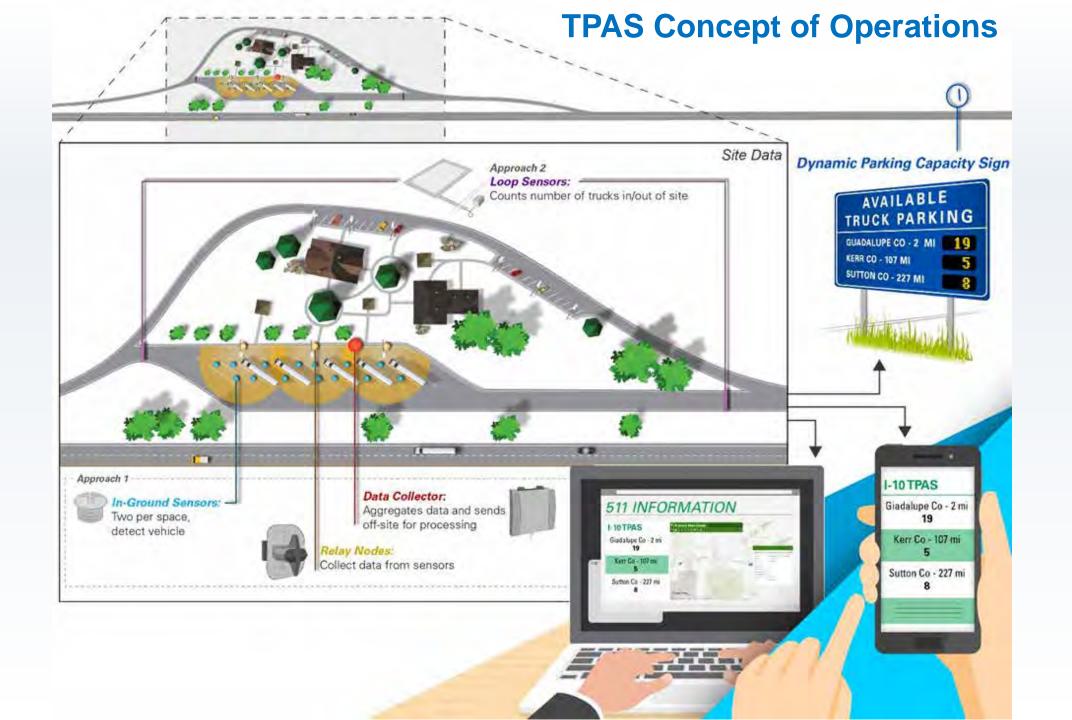
- Dynamic Parking Capacity Signs are the preferred communication method for drivers seeking truck parking availability information. (ATRI)
- Best practice is to locate one DPCS within 3 miles of the site and one approximately 20 to 30 miles prior to a site.
 - Provides advanced warning of space availability to allow drivers to consider alternative plans if a location is full



TPAS Mobile Application For Drivers

- The mobile application will automatically display any truck parking spots open in the locations along the Corridor.
- The mobile application pulls GPS coordinates from the smartphone and generates a web service request that includes geo-coding data. The request is sent to the I-10 Corridor Coalition TPAS.
- The mobile application then calculates the estimated distance to each identified facility and displays this information along with location and available spaces.
- The service could be expanded in the future to include privately owned truck stops and serve as the base for additional technology deployments in the I-10 Corridor

Application to include "handsfree" features such as audible alerts and commands to mitigate driver distraction





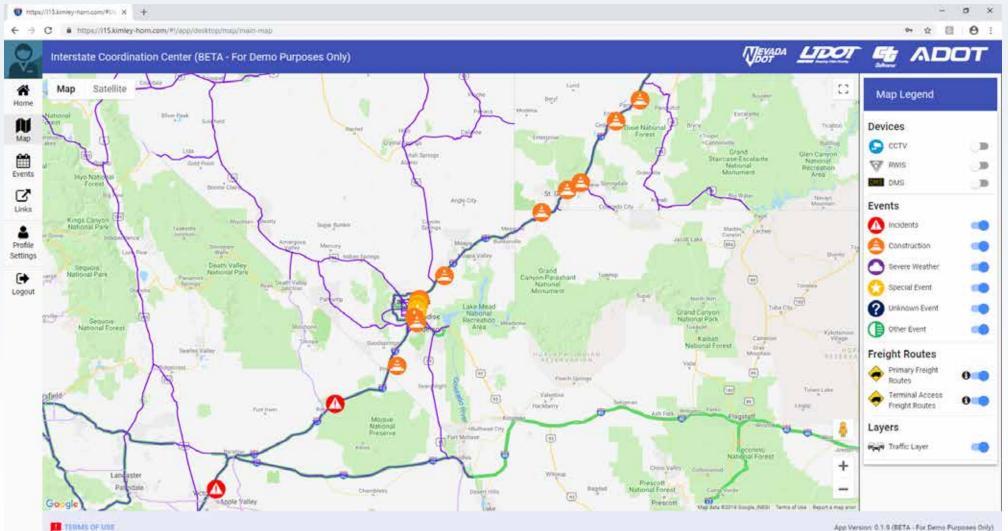
I-15 Dynamic Mobility Application Freight Information Application (FIA)

- Deployment based on a cooperative agreement between NDOT, UDOT, Caltrans and ADOT
 - » NDOT is Lead Agency
- Provides the following capabilities:
 - » A simple registration web site that allows trucking company participants to enter preferences in term of what types of real-time transportation alerts that they would like to receive, with the ability to select geographic portions of the corridor for tailored alerts.
 - » Real-time transportation alerts to be provided to trucking company participants via email and text
 - » Provides alerts to cover: longer-term incidents, congestion, weather, closures/restrictions (e.g. work zones), etc.

The goal of the I-15 DMA project is to facilitate interstate and inter-agency communication for improved operations and management of I-15 during planned and unplanned events. .

The FIA component of this project that is now undergoing testing focuses on a basic "freight transportation traffic alert" concept, which will be targeted at trucking industry dispatchers/operations managers and truck drivers

I-15 Freight Traveler Information Prototype Test – Web View



App Version: 0.1.9 (BETA - For Demo Purposes Only)

Freight Advanced Traveler Information System (LA Metro)

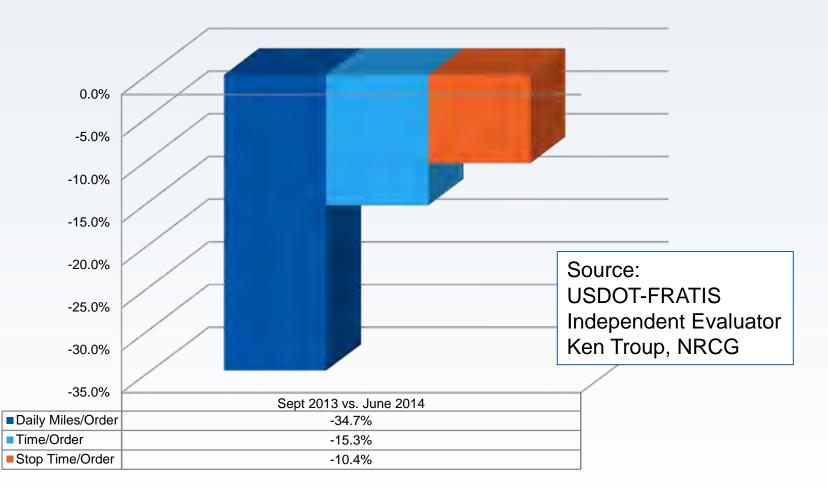
FRATIS should include:

- Real-time data integration (TMS, TOS, appointments)
- » Truck trip route optimization based on real-time data
- » Port container pickup and delivery metrics and analytics
- » Leverage regional traveler information data (RIITS)
- » Ability to integrate CV/AERIS applications
- » API-based open architecture



FRATIS Optimization Preliminary Results Two-month Comparison - Metrics Per Order

FRATIS LA Data Comparison: Sept 2013 vs. June 2014



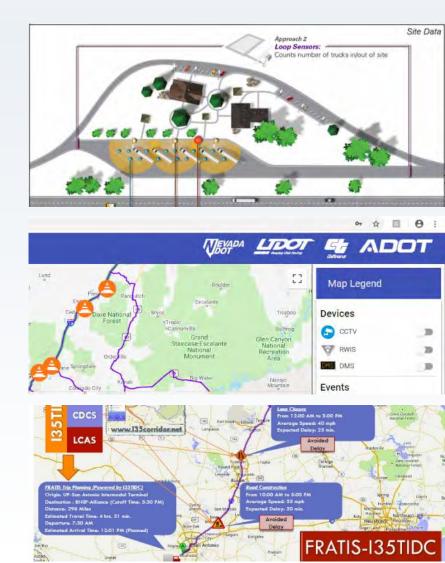


FRATIS Geofencing Technology: WiFi-based Terminal Queue Measurement



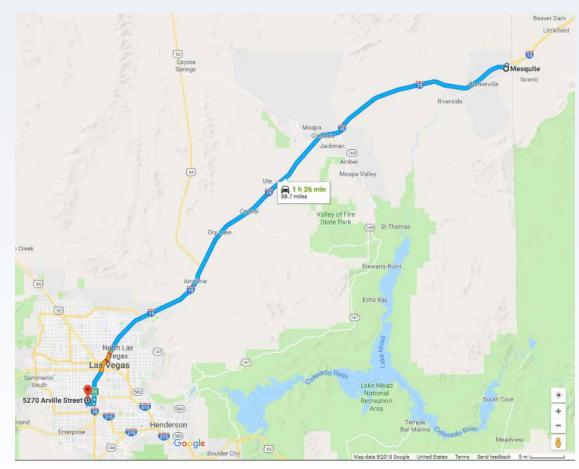
Conceptualizing a Technology Solution for Nevada

- Truck Parking Availability Technology use I-10 Corridor Defined TPAS
 - » Real-time parking availability at all public rest stops; integrate private truck parking info where available
 - » Dissemination through mobile app, web app and dynamic parking capacity signs
- I-15 DMA Project Freight Information Application
 - Deploy as basis for traveler information and alert information to be provided to the trucking fleets through the truck parking application
- FRATIS use the geofencing of freight terminals concept and develop geofences around all warehouses, DC's and other freight facilities that do not provide for truck parking
 - » Add TPAS technology to truck parking facilities near these facilities, if not already deployed



Potential Operational Scenario (1 of 3)

- 1) John is a user of the new Nevada Truck and Parking Information (TPI) application, and has it installed on his iPhone, which is mounted for hands-free operation in his cab. He always inputs his destination when beginning a trip.
- 2) It's 7:00 PM, and John is heading south on I-15 past Mesquite, and is less than 100 miles north of Las Vegas.
 - » He is getting concerned about making his freight delivery on time at Good Buys Distribution Center (DC) near Hacienda & Arville in Las Vegas, as their loading dock closes at 9:00 PM.
 - » He is also concerned in that he has only 2.5 hours of his HOS limit for the day left, and he is worried he may have to park illegally on a city street near the warehouse, as they do not allow overnight truck parking



Potential Operational Scenario (2 of 3)

- 3) John receives a TPI audible alert at 8:00 PM of substantial congestion in the southbound lanes of I-15 at Russell, and the TPI audibly recommends, "*exit onto westbound Flamingo and then left onto Arville*."
- 4) At 8:45 PM John can see the Good Buys DC ahead of him. He is going to make his delivery, but is concerned he will have little time to find overnight parking before his HOS limit...<u>however:</u>
 - » Unbeknownst to John, Clark County has just partnered with NDOT to implement of new feature of the TPI – Urban Overnight Truck Parking
 - With this new capability, based on the TPI knowing John's location, and having geofenced the Good Buys DC facility, John is provided and automated audible alert, "overnight parking available after Good Buys delivery at 7000 S Decatur Blvd."



Potential Operational Scenario (3 of 3)

- 5) John pulls into the loading dock, 4 of his pallets are removed by warehouse staff, and he drives 2.5 miles to the parking location, and arrives at 9:20 PM, enters a 4 digit code at the lot gate that the TPI app has texted him, and parks with 5 minutes to spare on his HOS limit. He is also able to access vending machines and a restroom at the lot, before going to sleep in his cab.
 - In an automated back-office TPI transaction, the system knows that John has made a delivery to Good Buys, and also accessed the nearby automated trucking parking facility.
 - » Based on this, TPI bills Good Buys \$25 for John's use of the overnight facility because Good Buys is subject to the new Clark County ordinance that requires warehouses and freight facilities with over 10 truck deliveries per day to either provide adequate overnight and staging truck parking and minimal rest facilities, or to pay the City \$25, which the City then uses to set up a number of unmanned, automated satellite lots – with API integration with the NDOT TPI system.

Final Truck Parking Discussion



Meeting Wrap-up



Wrap-up

Open Discussion

Participants may introduce additional freight-related topics or questions, however, discussion will be limited to a few minutes per topic, and may be tabled for a future meeting.

Next Meetings

- » FHWA Truck Parking Roundtable, Nov. 15 in Las Vegas
- » FAC: February 5, 2019
- » FAC: May 7, 2019



THANK YOU!

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