



## REGIONAL TRANSPORTATION COMMISSION

*Metropolitan Planning • Public Transportation & Operations • Engineering & Construction*

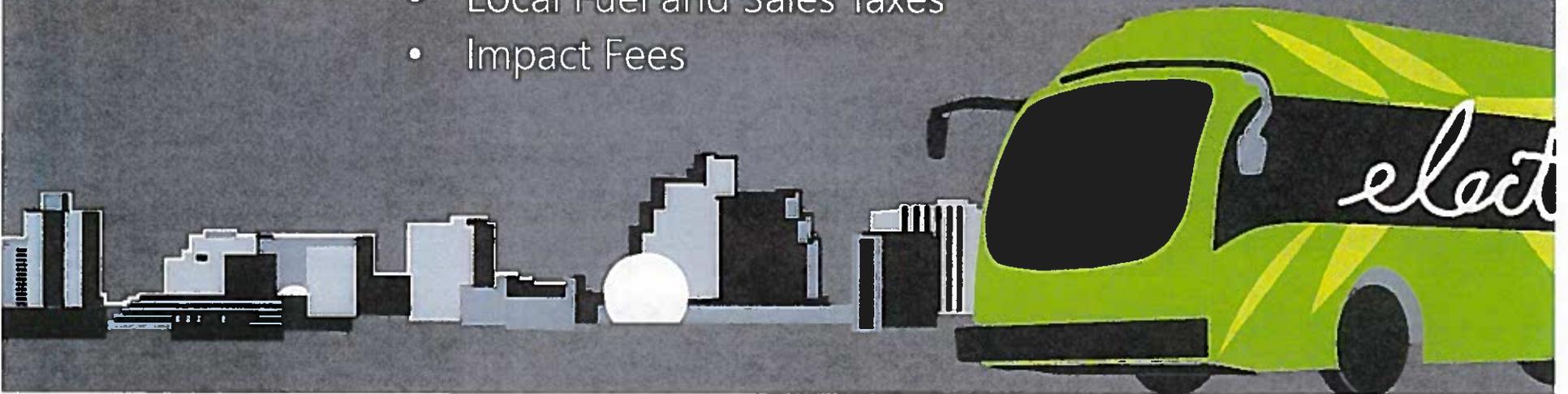
*Metropolitan Planning Organization of Washoe County, Nevada*



Your RTC. Our Community.

## RTC & REGIONAL PLANNING

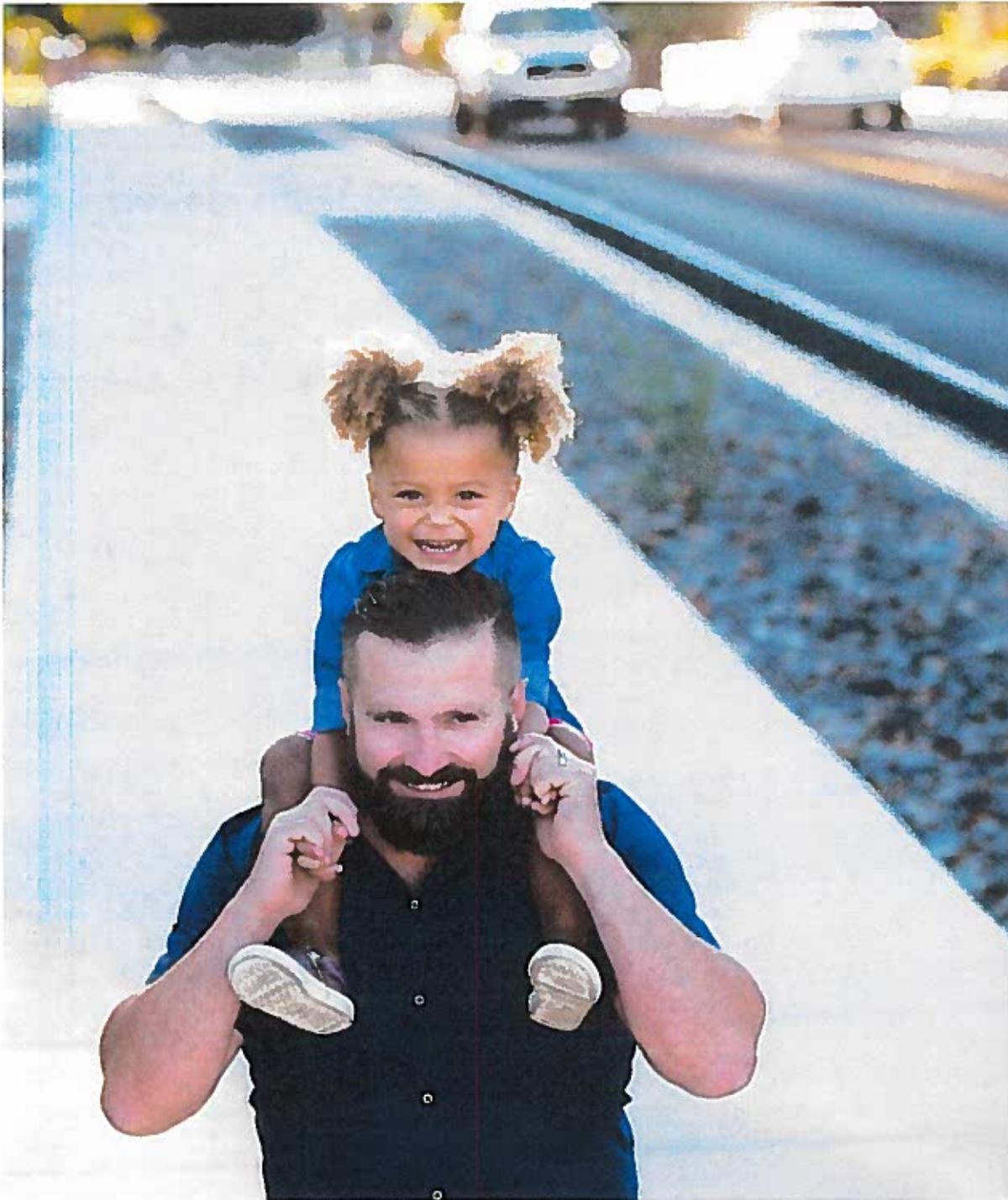
- MPO – Continuing Comprehensive and Coordinated Process
- Linking Planning to Service Delivery
  - Street and Highway Construction
  - Public Transportation Services
- Administer Projects Funded by
  - Federal Funds
  - Local Fuel and Sales Taxes
  - Impact Fees



# REGIONAL TRANSPORTATION PLAN

- Update Every Four Years
- Fiscally Constrained
- Air Quality Conformity
- Multi-Modal
- Citizen Based





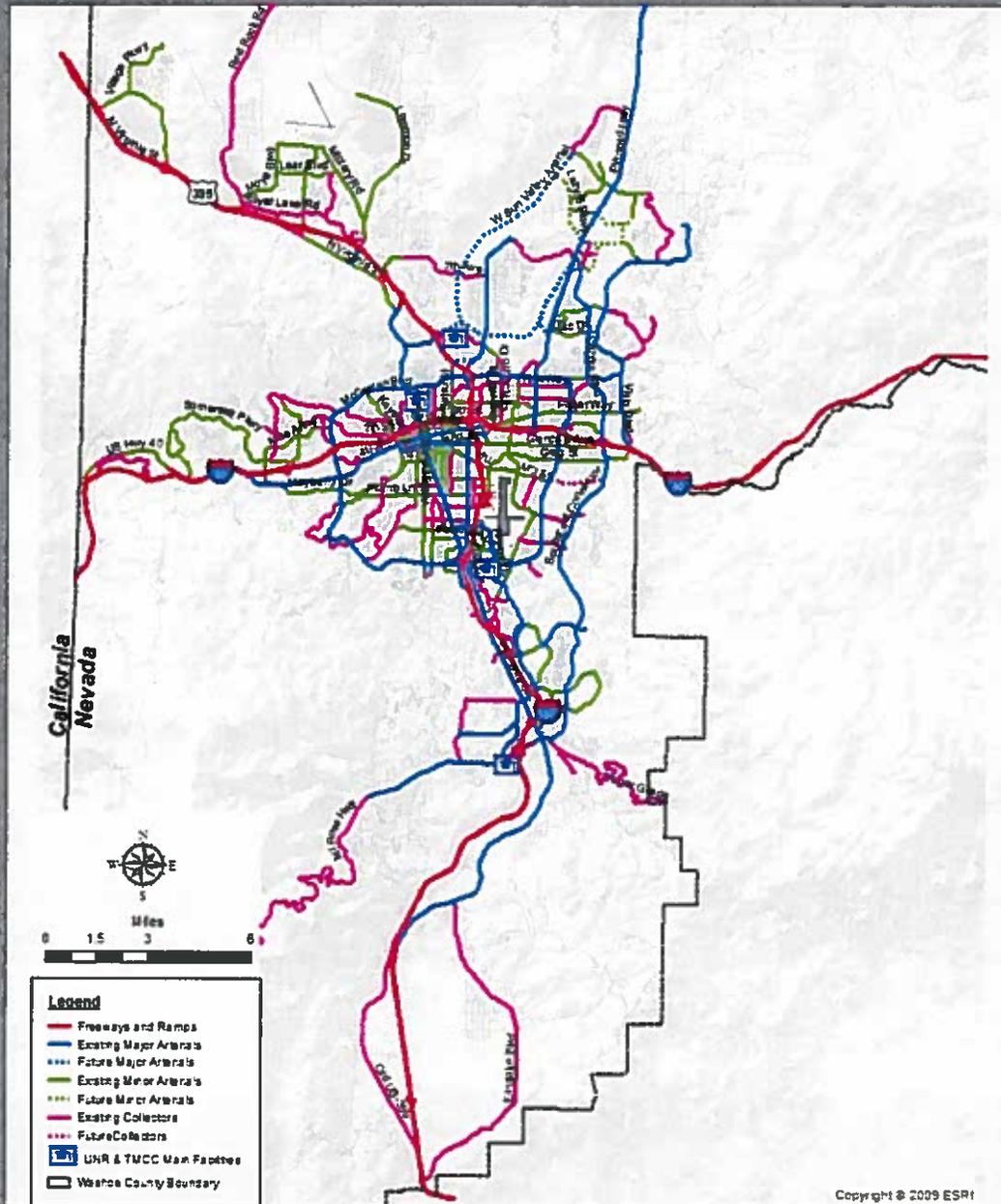
## GUIDING PRINCIPLES

- Safe & Healthy Communities
- Economic Development & Diversification
- Sustainability
- Increased Travel Choices

## QUICK FACTS

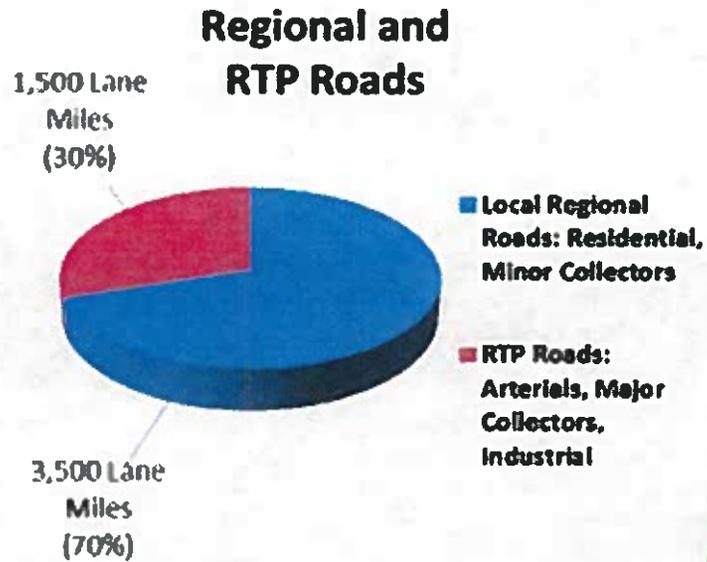
Regional Road Usage  
Budget and Finance Summary  
Transit Operations Data

# REGIONAL ROADS

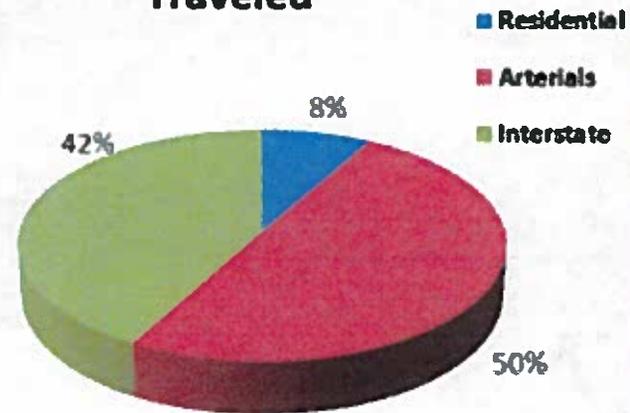


# REGIONAL ROAD USAGE

## Local Regional Roads and RTP Roads



### Vehicle Miles Traveled

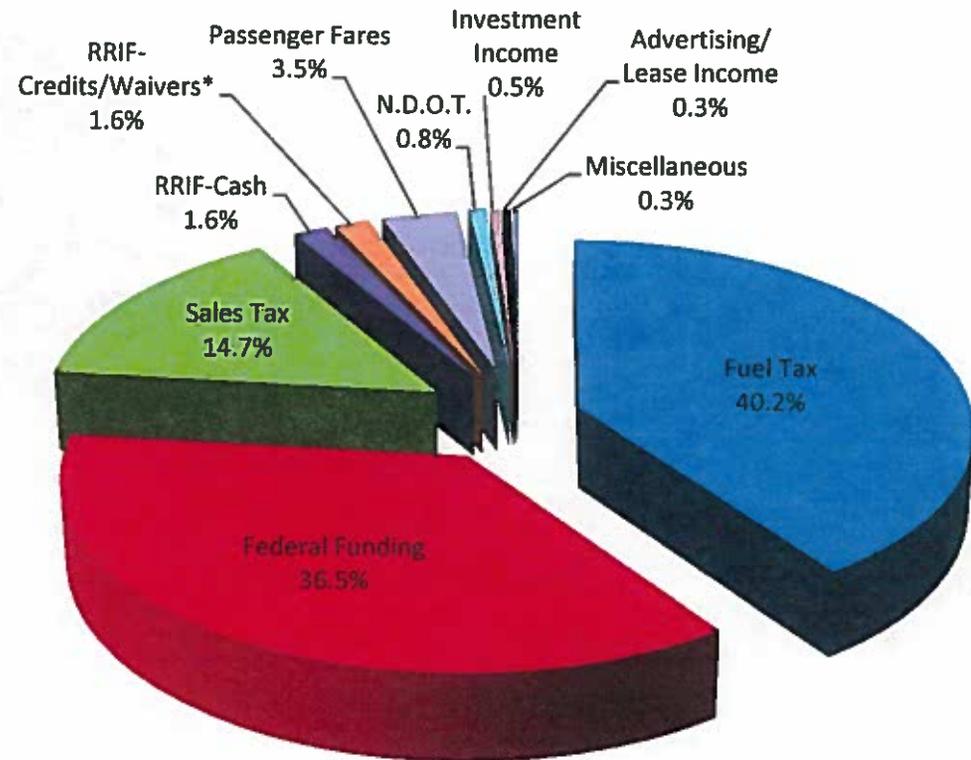


QUICK FACTS

Budget and Finance Summary

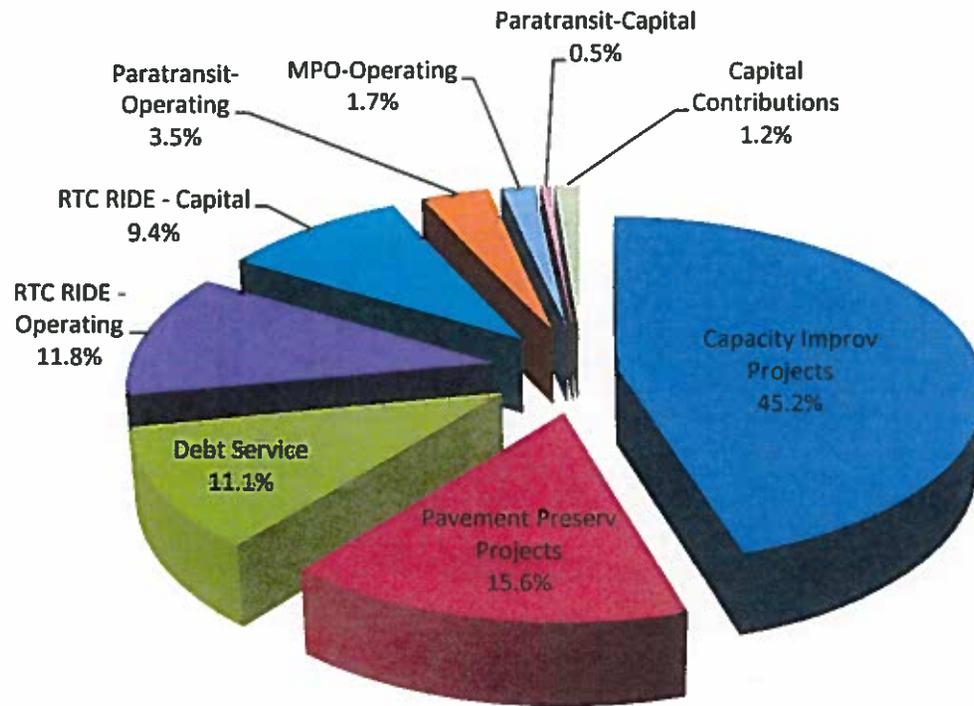
# FY 2017 BUDGET REVENUES BY SOURCE

Fuel Tax	\$75,816,773	40.2%
Federal Funding	\$68,878,673	36.5%
Sales Tax	\$27,735,439	14.7%
RRIF-Cash	\$3,000,000	1.6%
RRIF-Credits/Waivers*	\$3,000,000	1.6%
Passenger Fares	\$6,559,218	3.5%
N.D.O.T.	\$1,525,000	0.8%
Investment Income	\$895,000	0.5%
Advertising/Lease Income	\$657,000	0.3%
Miscellaneous	\$555,000	0.3%
<b>Total:</b>	<b><u>\$188,622,103</u></b>	<b>100.0%</b>



Total Revenue \$188.6 Million

# FY 2017 BUDGET EXPENDITURES BY FUNCTION

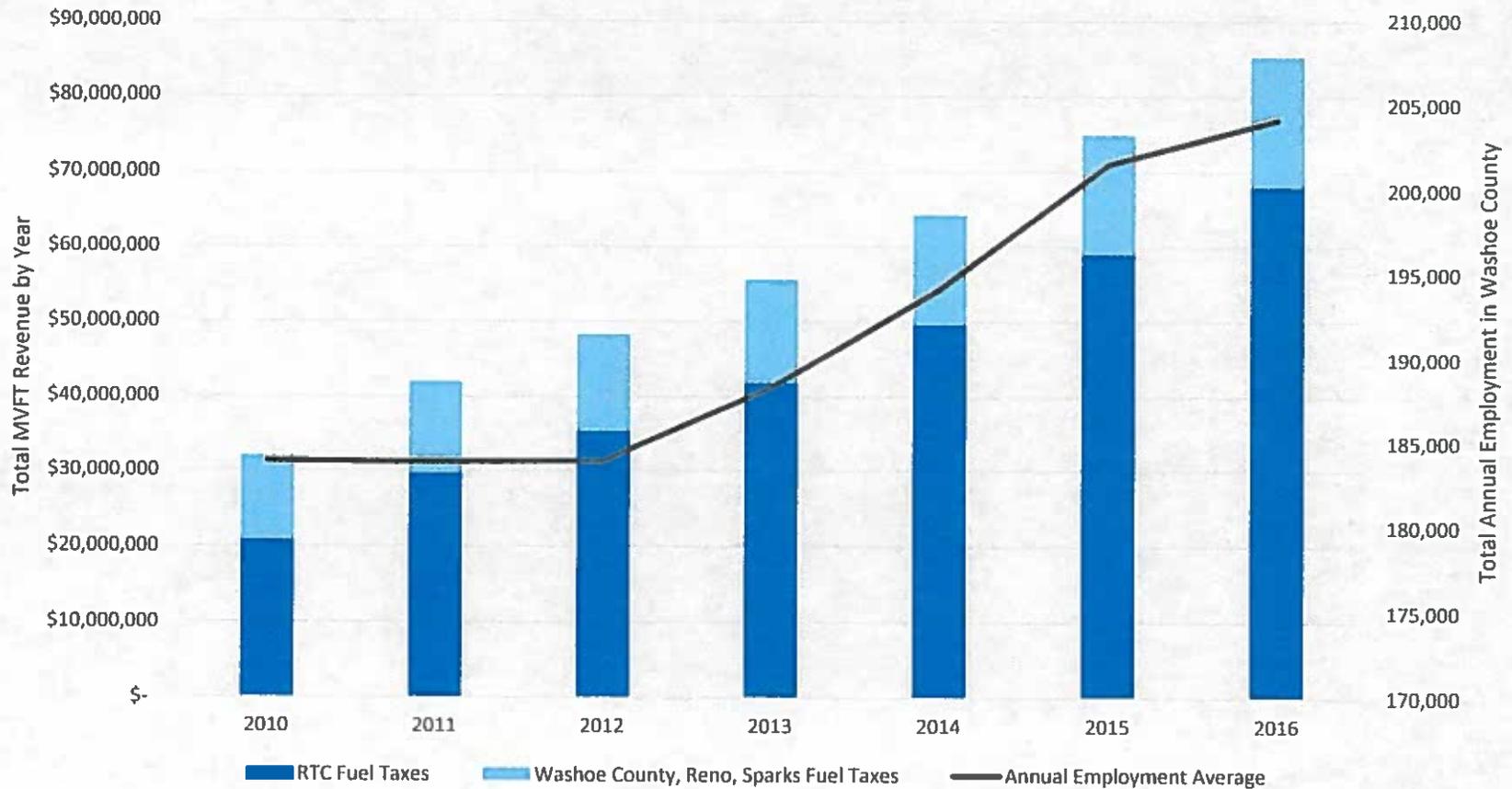


Capacity Improv Projects	\$108,475,289	45.2%
Pavement Preserv Projects	\$37,355,696	15.6%
Debt Service	\$26,732,137	11.1%
RTC RIDE - Operating	\$28,234,094	11.8%
RTC RIDE - Capital	\$22,585,285	9.4%
Paratransit-Operating	\$8,353,330	3.5%
MPO-Operating	\$4,142,665	1.7%
Paratransit-Capital	\$1,177,720	0.5%
Capital Contributions	\$3,000,000	1.2%
<b>Total:</b>	<b>\$240,056,216</b>	<b>100.0%</b>

Total Expenditures \$240 Million

# EMPLOYMENT vs GAS TAX REVENUE

## Historical MVFT Revenue & Annual Total Employment in Washoe County



## QUICK FACTS

# Public Transportation

## FIXED-ROUTE SERVICE

- RTC RIDE, INTERCITY & SIERRA SPIRIT
- 26 routes / 72 buses / 1,000 bus stops
- Defined route and schedule
- Operated by MV Transportation
- 25,000 passenger trips per day
- Biodiesel, hybrid electric, and electric vehicles



# RTC ACCESS Paratransit Service

- ADA service for people whose disability prevents them from using fixed-route transit service
- Civil Right – RTC is required by law to provide
- Eligibility screening process
- Demand-responsive: Call and reserve rides 1-3 days in advance
- Operated by First Transit



# ACCOMPLISHMENTS SINCE LAST RTP

PROJECTS UNDER  
CONSTRUCTION

SouthEast Connector

*Pyramid McCarran Intersection*

Southeast McCarran

*RTC VANPOOL Services*

PUBLIC  
TRANSPORTATION

Electric Bus Program

*Villanova Maintenance Facility Upgrades*

PROJECTS UNDERWAY

4th Prater BRT

*Virginia Street BRT Extension*

North Valleys Improvements



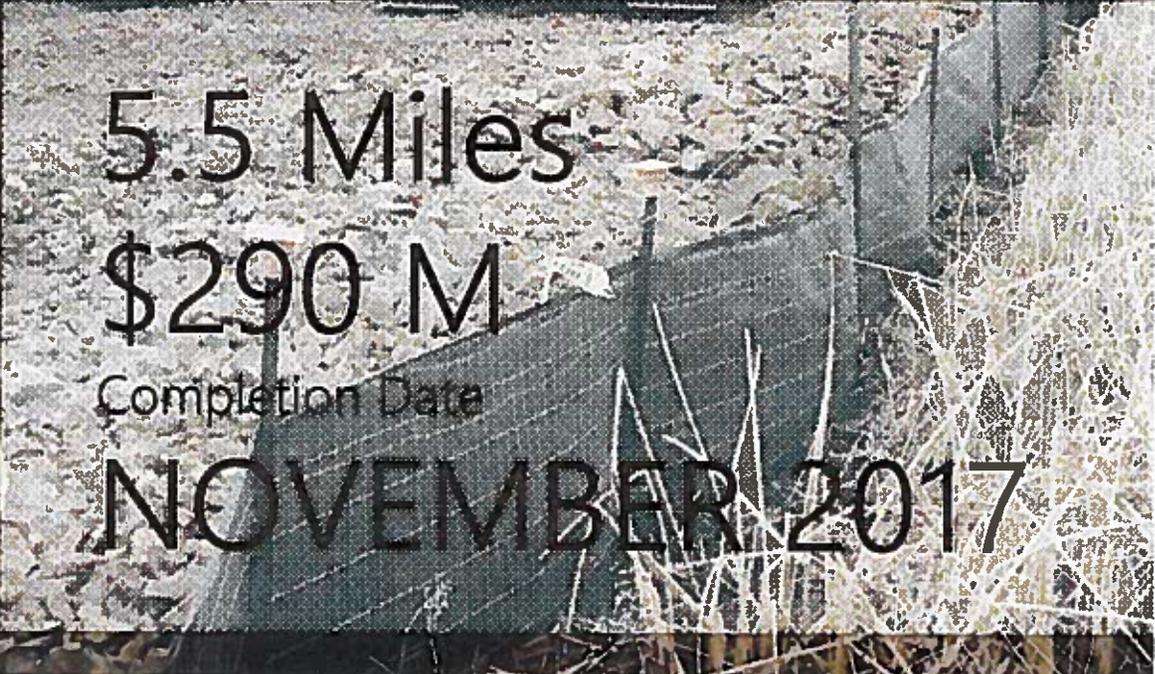
# SOUTHEAST CONNECTOR

5.5 Miles

\$290 M

Completion Date

**NOVEMBER 2017**





PYRAMID MCCARRAN  
INTERSECTION

\$72 M.

Completion Date

FALL 2017



SOUTHEAST MCCARRAN

5.1 Miles

\$45 M

Completed 2015

## RTC VANPOOL PROGRAM

95 VANS

132%

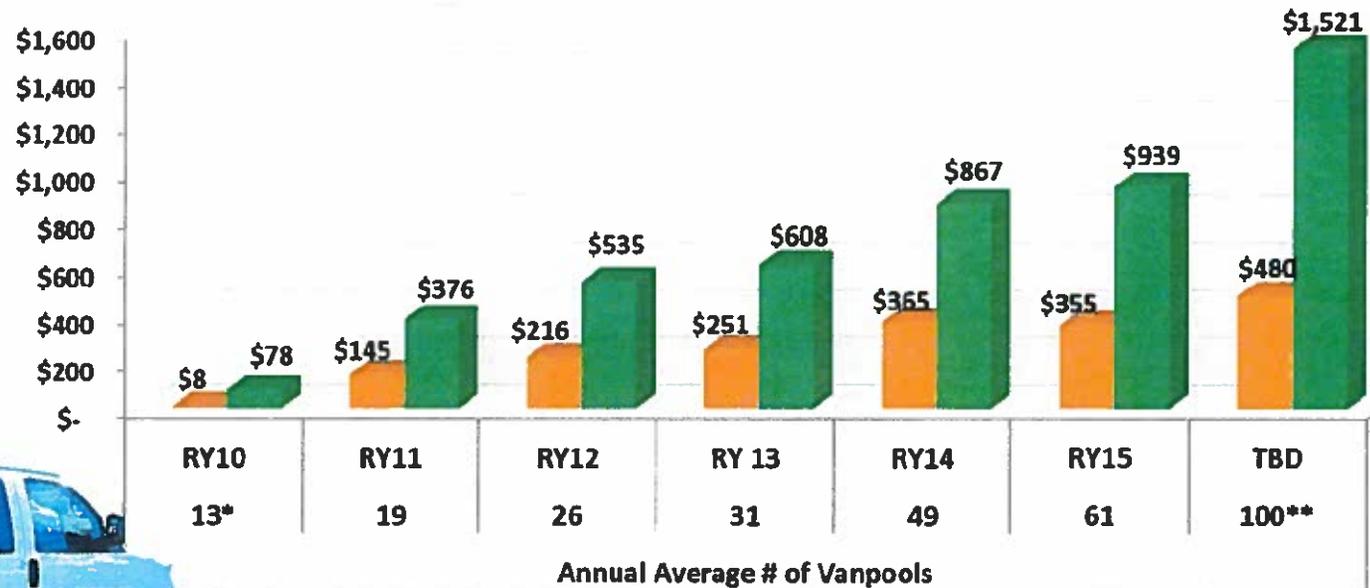
Growth from July 2013 – August 2016



- RTC VANPOOL connects Reno-Sparks to Minden, Carson, Tri-Center, and Herlong, CA
- Today's Monthly Ridership = 673
- Environmental Benefits:
  - 26.1 Million Miles of VMT Eliminated
  - 24.6 Million lbs. of Carbon Dioxide Eliminated
  - 610,000 lbs. of Carbon Monoxide Eliminated
  - Fastest Growing Market Segment in Transit Services

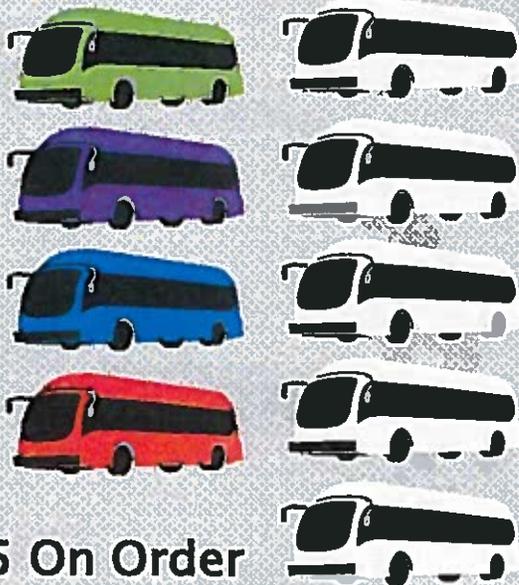
# RTC VANPOOL PROGRAM

■ Report Period Subsidies (000's)
 ■ Estimated Grant Funds Received/Projected (000's)



# ELECTRIC BUS PROGRAM

4  
In Service



- Cost per Mile – 16% less electric bus (OCT 2015-MAR 2015) vs RIDE Fleet (2016)
- Equivalent Fuel Consumption – 26% less per mile for electric vs diesel (JAN 2015 - MAR 2016)
- Fewer Parts / Most Reliable Buses in RTC Fleet



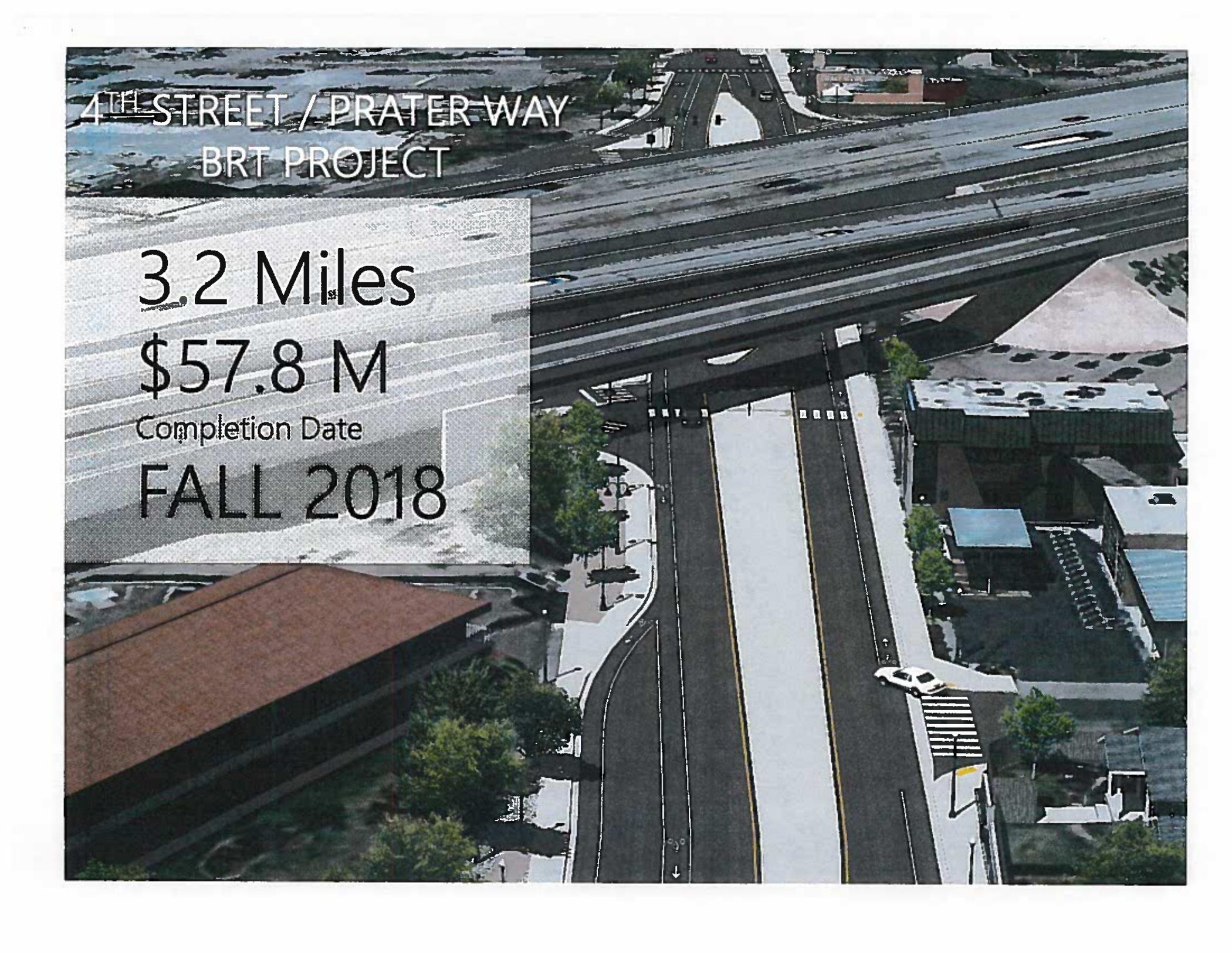


VILLANOVA MAINTENANCE  
FACILITY UPGRADES

\$12.8 M

Completion Date

JULY 2017



4<sup>TH</sup> STREET / PRATER WAY  
BRT PROJECT

3.2 Miles

\$57.8 M

Completion Date

FALL 2018

# VIRGINIA STREET BRT EXTENSION

2.6 Miles

\$78 M

Completion Date

2019



# 2040 REGIONAL TRANSPORTATION PLAN POPULATION & EMPLOYMENT PROJECTIONS

## Washoe County Consensus Forecasts (TMRPA, 2016)

Population to increase

**120,671** by 2040

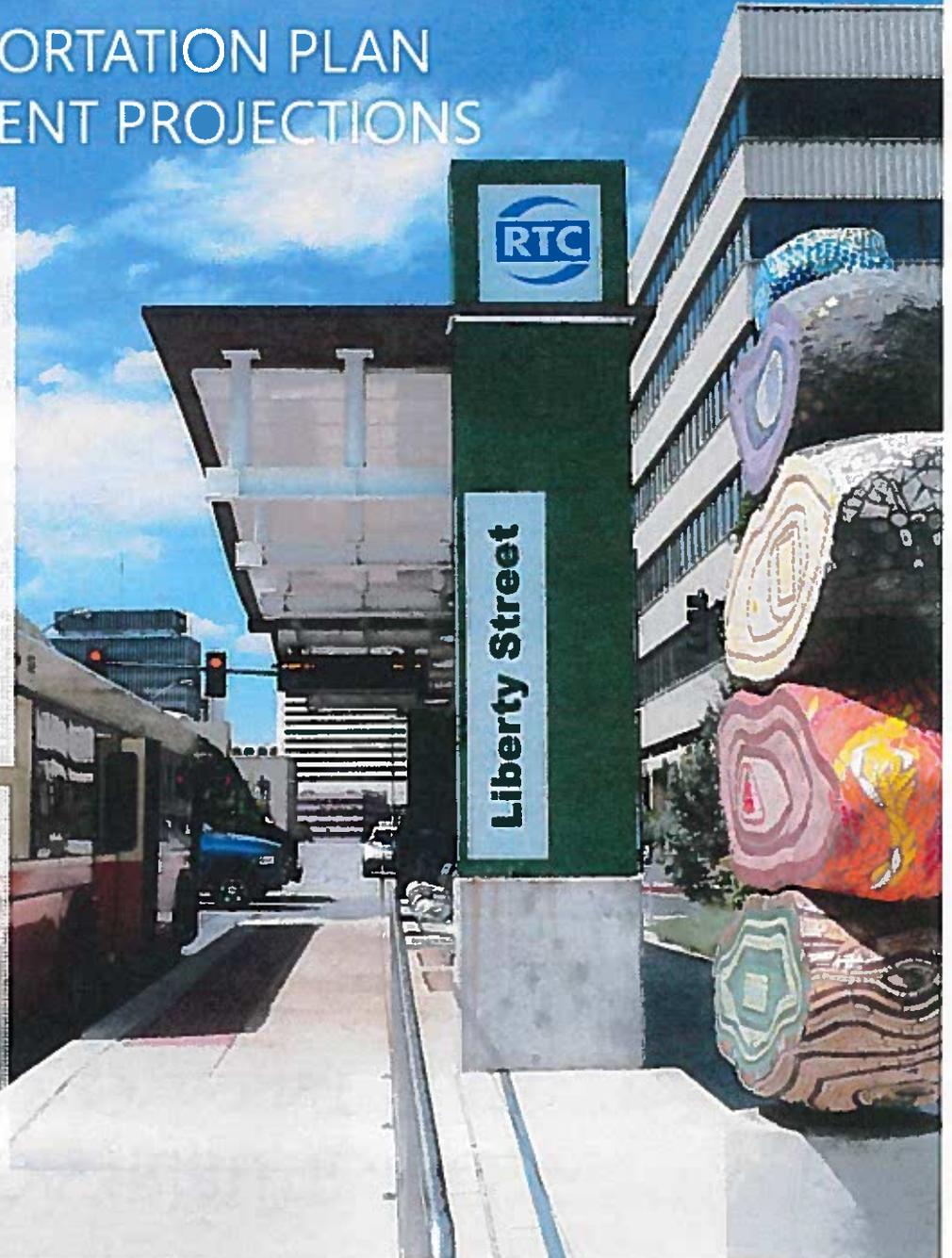
Employment to increase

**93,568** by 2040

## TRI Center Employment Forecasts (Storey County, 2016)

Employment to increase

**28,464** by 2040

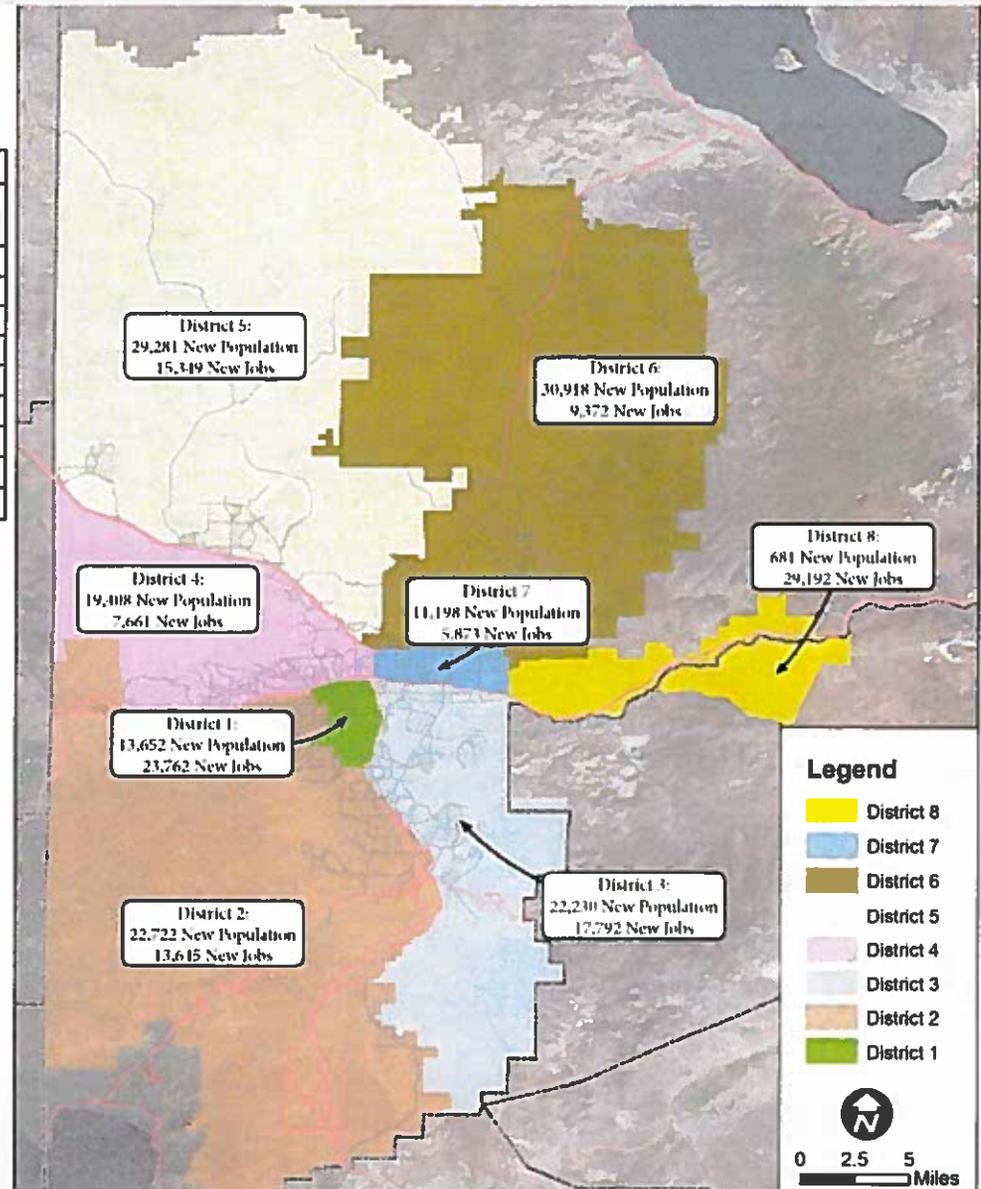


# GEOGRAPHIC DISTRIBUTION OF POPULATION & EMPLOYMENT GROWTH

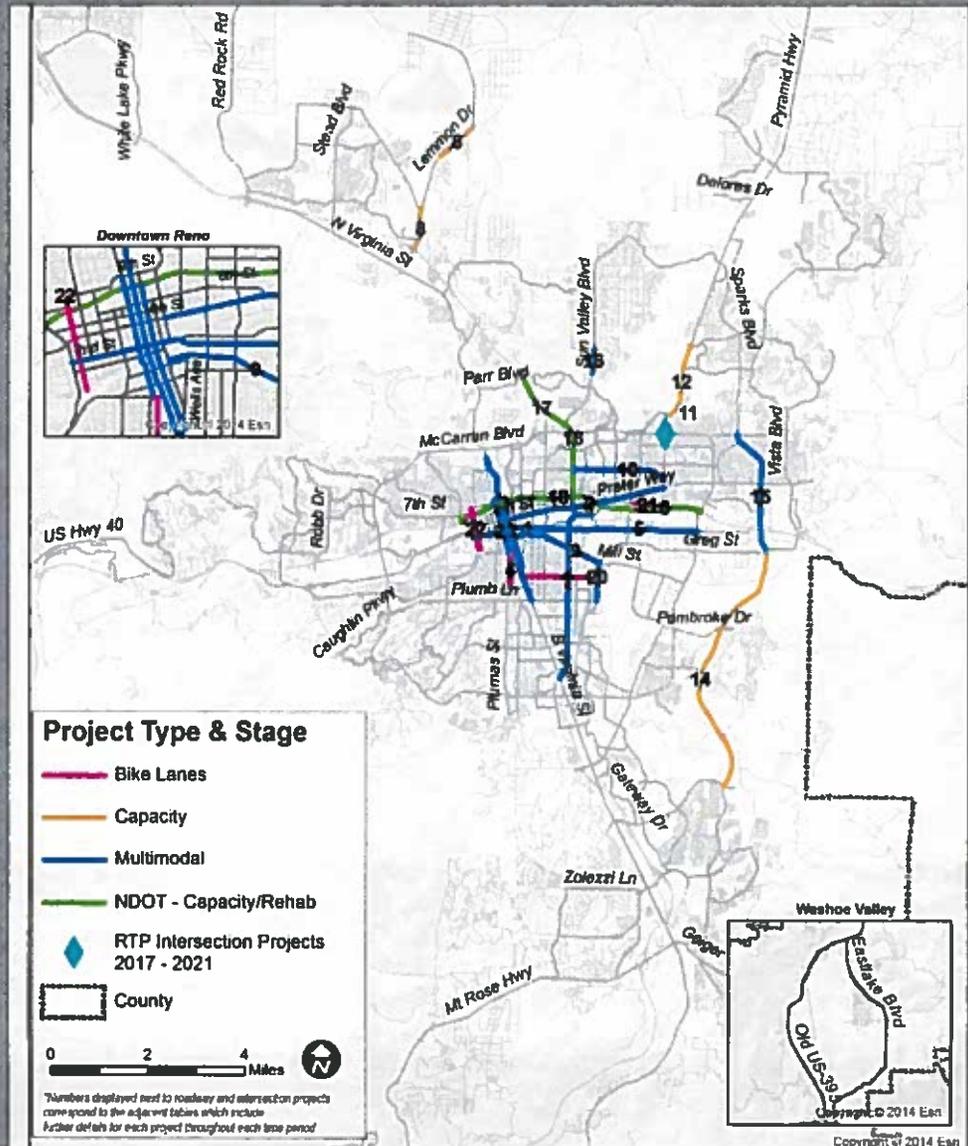
**Population & Employment Growth Distribution by 2040**

	New Population	New Jobs	Percent of Total New Population	Percent of Total New Jobs
District 1	13,652	23,762	9.1%	19.4%
District 2	22,722	13,645	15.1%	11.1%
District 3	22,230	17,792	14.8%	14.5%
District 4	19,408	7,661	12.9%	6.2%
District 5	29,281	15,349	19.5%	12.5%
District 6	30,918	9,372	20.6%	7.6%
District 7	11,198	5,873	7.5%	4.8%
District 8	681	29,192	0.5%	23.8%
<b>Total:</b>	<b>150,090</b>	<b>122,646</b>		

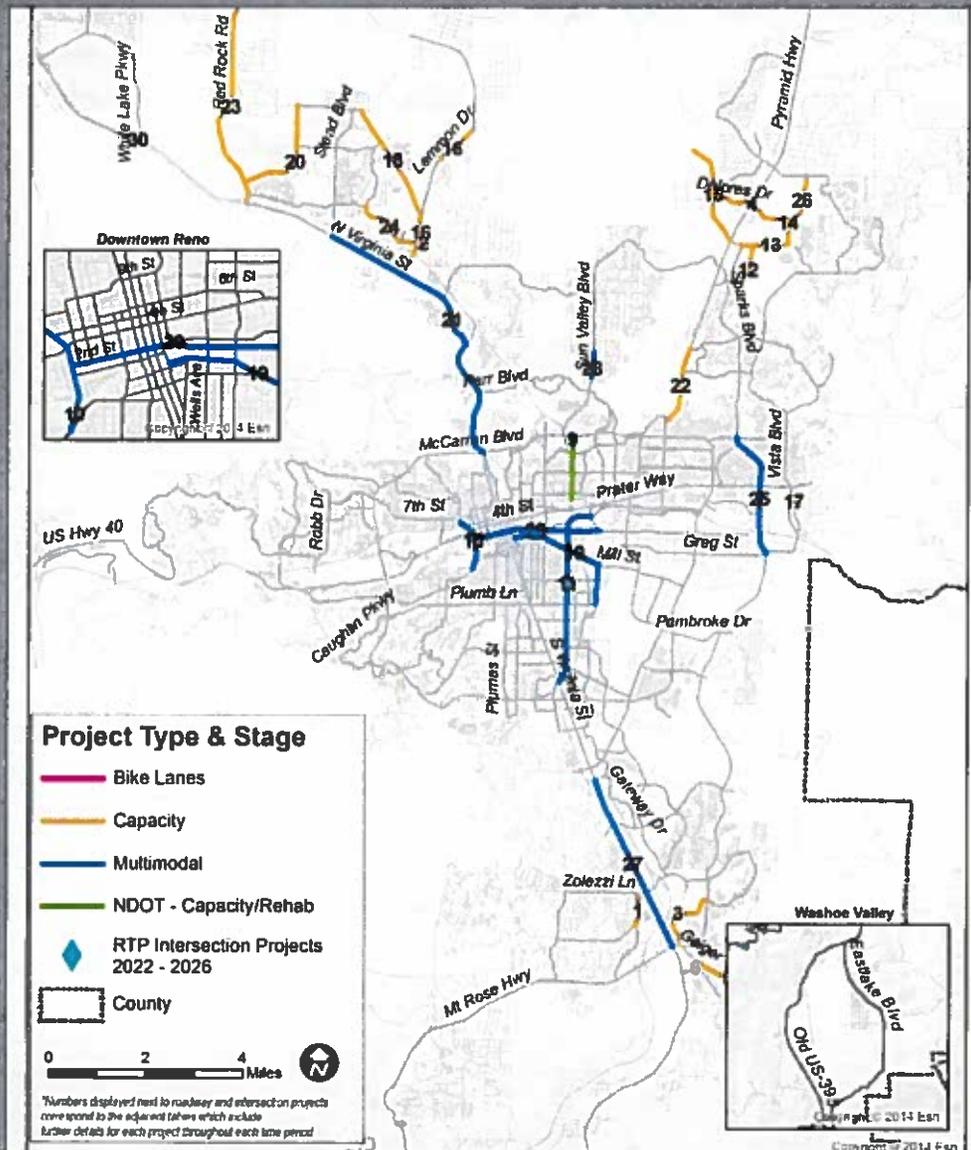
	Total Available Land (Acres)	Density of New Population on Available Land (Persons/Acre)	Density of New Jobs on Available Land (Jobs/Acre)
District 1	3,728	3.662	6.37
District 2	53,682	0.423	0.25
District 3	28,903	0.769	0.62
District 4	21,121	0.919	0.36
District 5	71,100	0.412	0.22
District 6	95,293	0.324	0.10
District 7	4,180	2.679	1.41
District 8	21,886	0.031	1.33



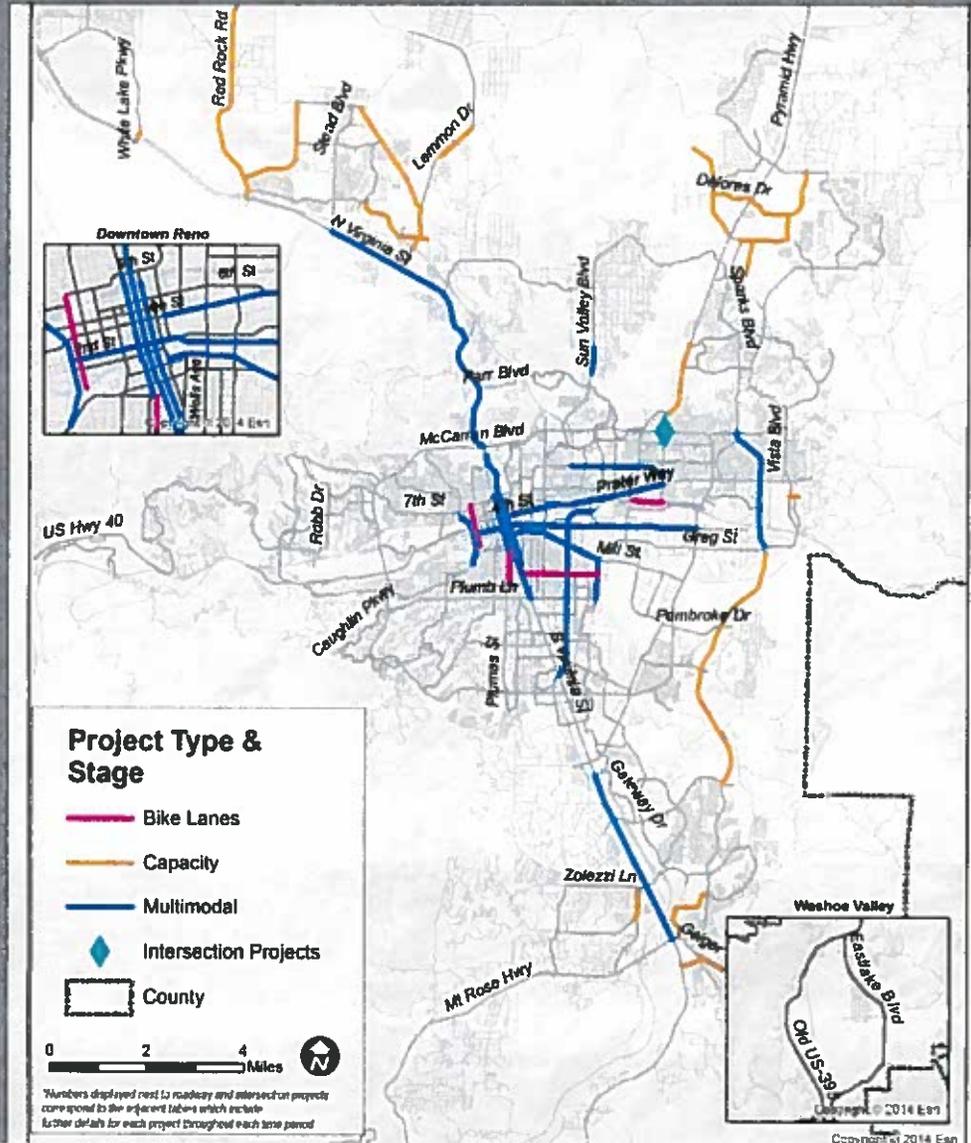
# 2040 RTP DRAFT 2017-2021 PROJECTS FOR DESIGN OR CONSTRUCTION



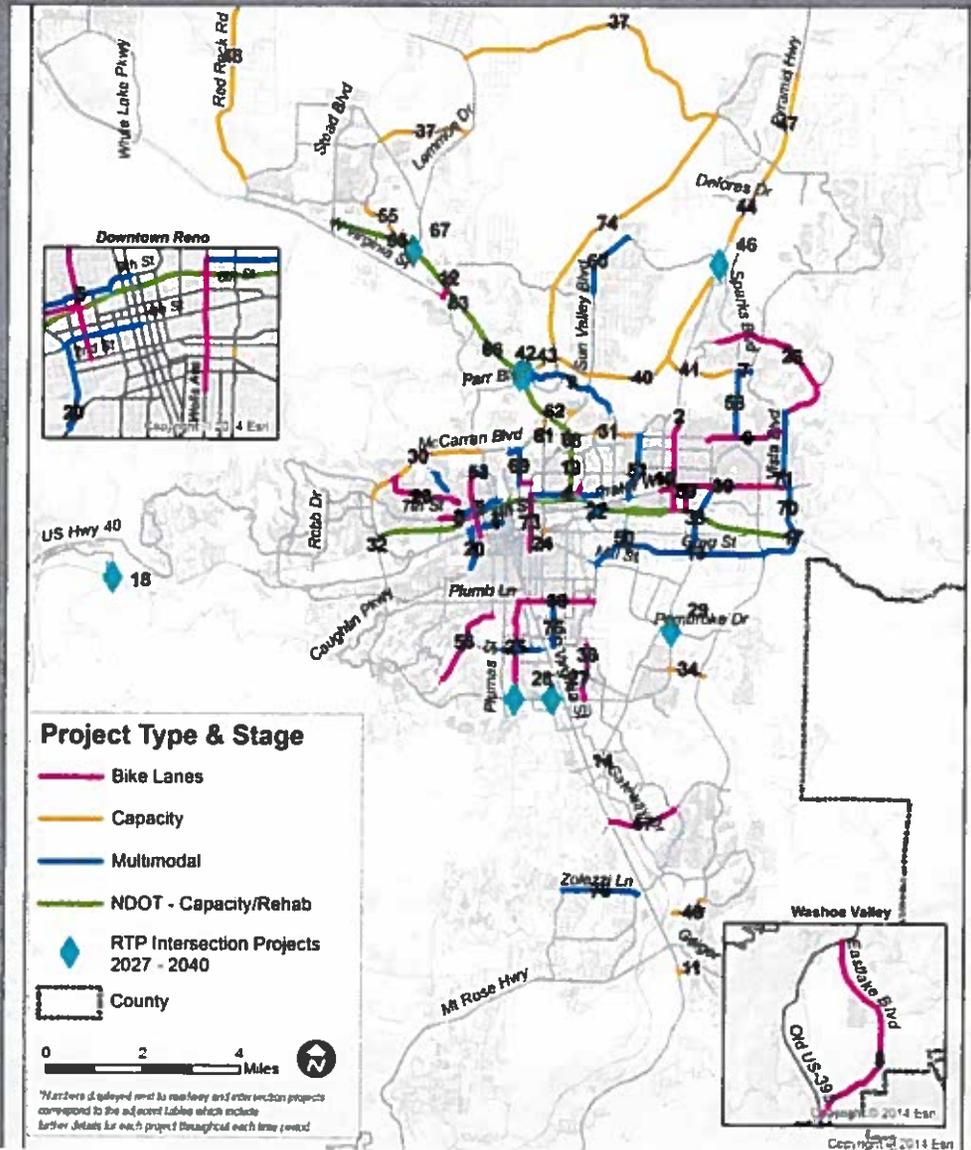
# 2040 RTP DRAFT 2022-2026 PROJECTS FOR DESIGN OR CONSTRUCTION



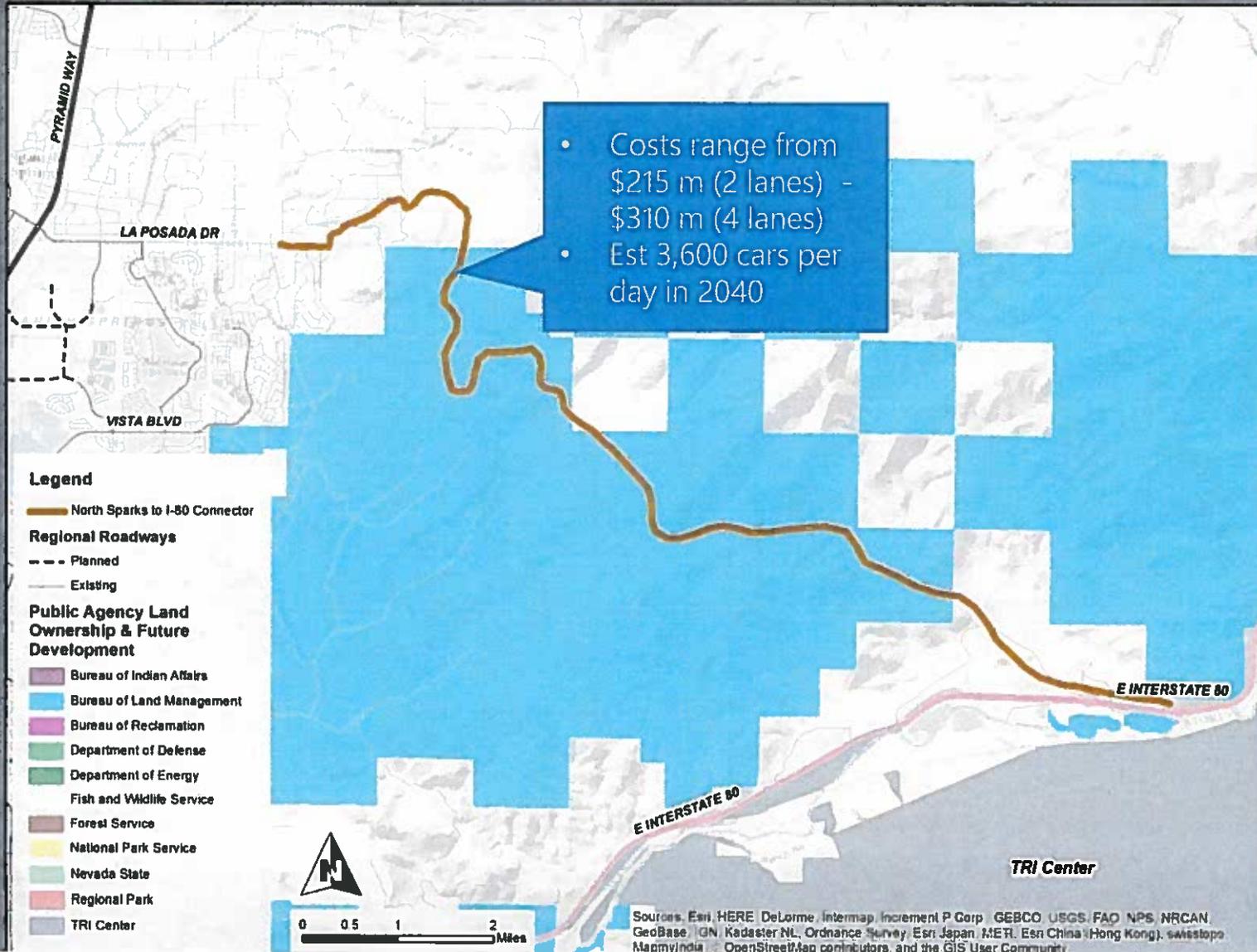
# 2040 RTP DRAFT 10-YEAR CIP PROJECTS



# 2040 RTP DRAFT 2027-2040 PROJECTS FOR DESIGN OR CONSTRUCTION

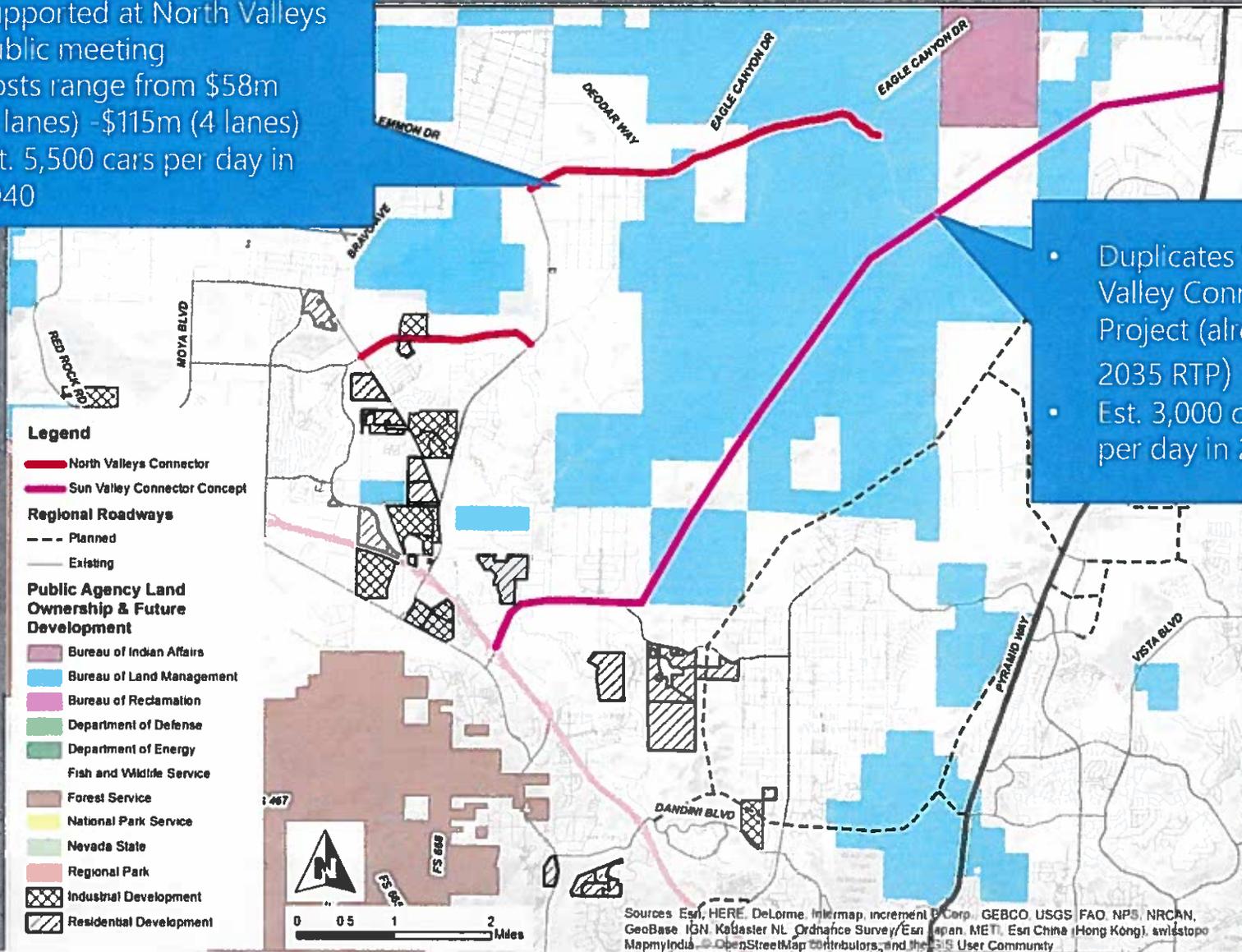


# NEW CAPACITY PROJECTS TO CONSIDER FOR YEARS 11-23 OF 2040 RTP (2027-2040)



# NEW CAPACITY PROJECTS TO CONSIDER FOR YEARS 11-23 OF 2040 RTP (2027-2040)

- Supported at North Valleys public meeting
- Costs range from \$58m (2 lanes) - \$115m (4 lanes)
- Est. 5,500 cars per day in 2040



- Duplicates West Sun Valley Connector Project (already in 2035 RTP)
- Est. 3,000 cars per day in 2040

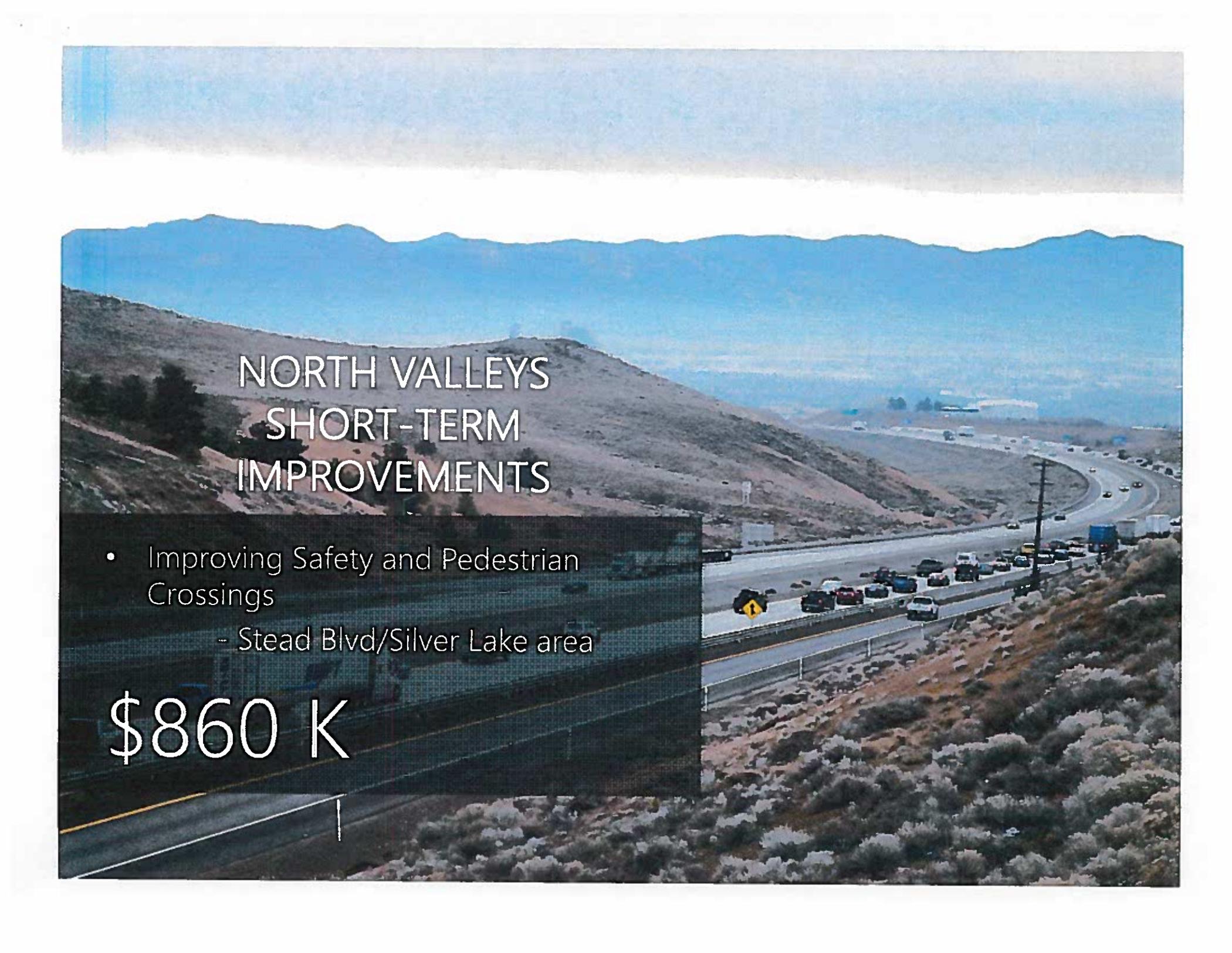
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

## PROPOSED SCHEDULE FOR MAJOR PROJECTS

	Design	ROW/NEPA	Construct
I-80/I-580/U.S. 395 Spaghetti Bowl Improvements	2017-2021	2017-2021	2022-2040
U.S. 395 Widening	2017-2021	2017-2026	2027-2040
West Sun Valley Arterial	2017-2021	2017-2026	2027-2040
Pyramid Highway ~ U.S. 395 Connector	2017-2021	2017-2021	2022-2026 <i>(Phase 1)</i> 2027-2040 <i>(Phases 2-9)</i>

# NORTH VALLEYS SHORT TERM IMPROVEMENTS

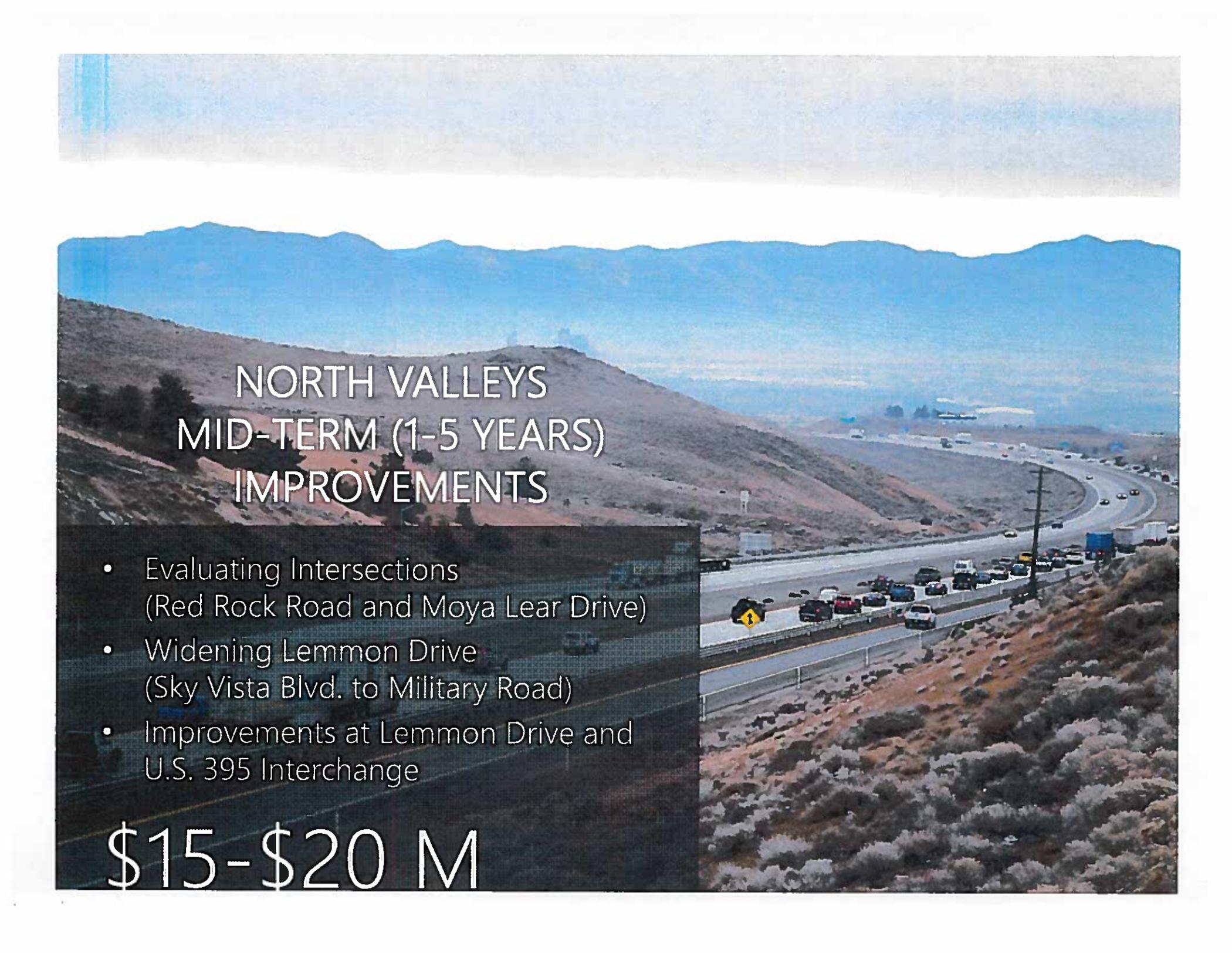




## NORTH VALLEYS SHORT-TERM IMPROVEMENTS

- Improving Safety and Pedestrian Crossings
  - Stead Blvd/Silver Lake area

\$860 K

An aerial photograph of a multi-lane highway interchange in a valley. The highway curves through the landscape, with several vehicles and trucks visible. In the background, there are blue-toned mountains under a clear sky. The foreground shows a hillside with sparse, dry vegetation.

## NORTH VALLEYS MID-TERM (1-5 YEARS) IMPROVEMENTS

- Evaluating Intersections  
(Red Rock Road and Moya Lear Drive)
- Widening Lemmon Drive  
(Sky Vista Blvd. to Military Road)
- Improvements at Lemmon Drive and  
U.S. 395 Interchange

\$15-\$20 M



PUBLIC TRANSPORTATION PRIORITIES

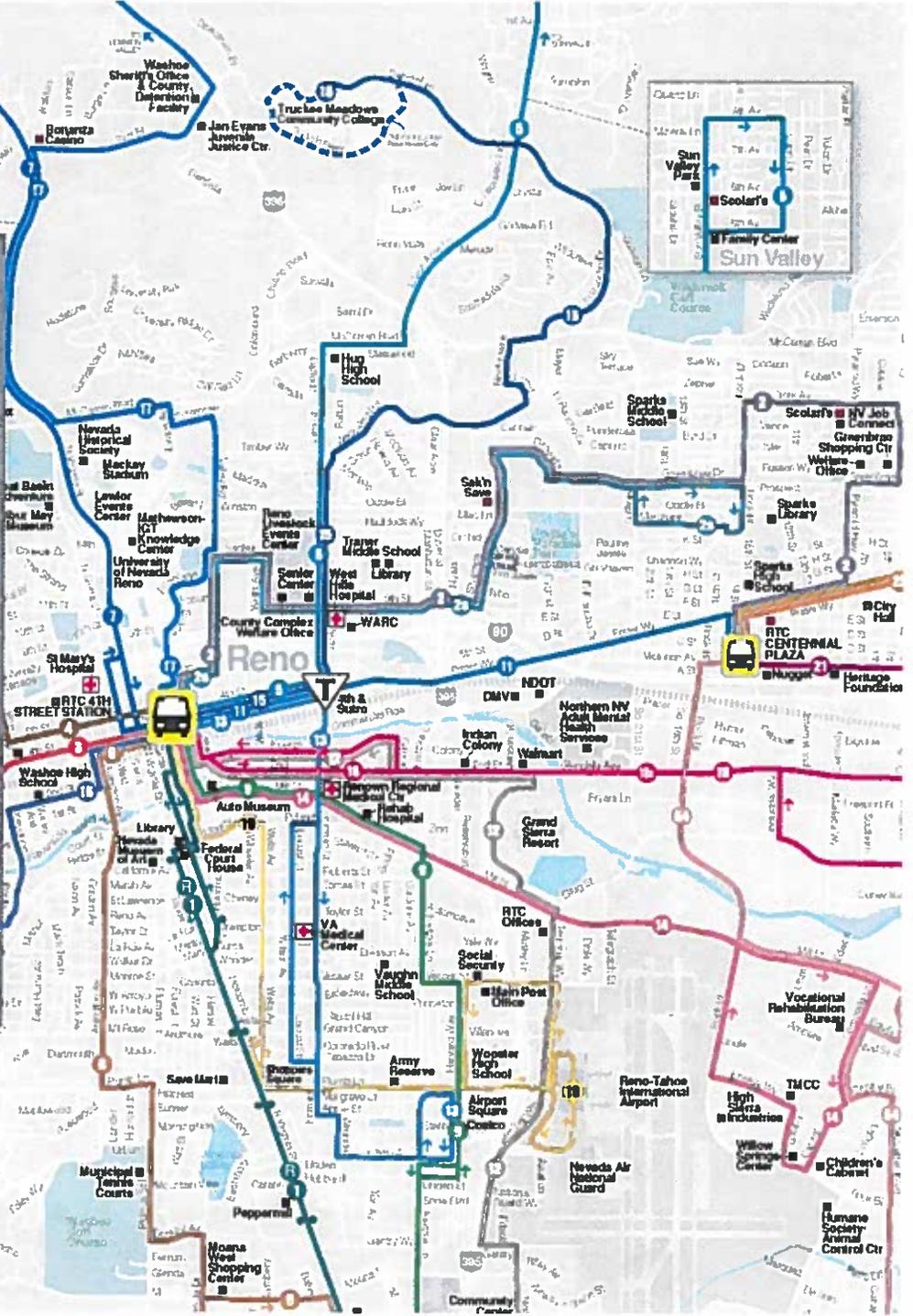
**Legend**

- Transfer Center
- Transfer Point
- RTC RAPID Station

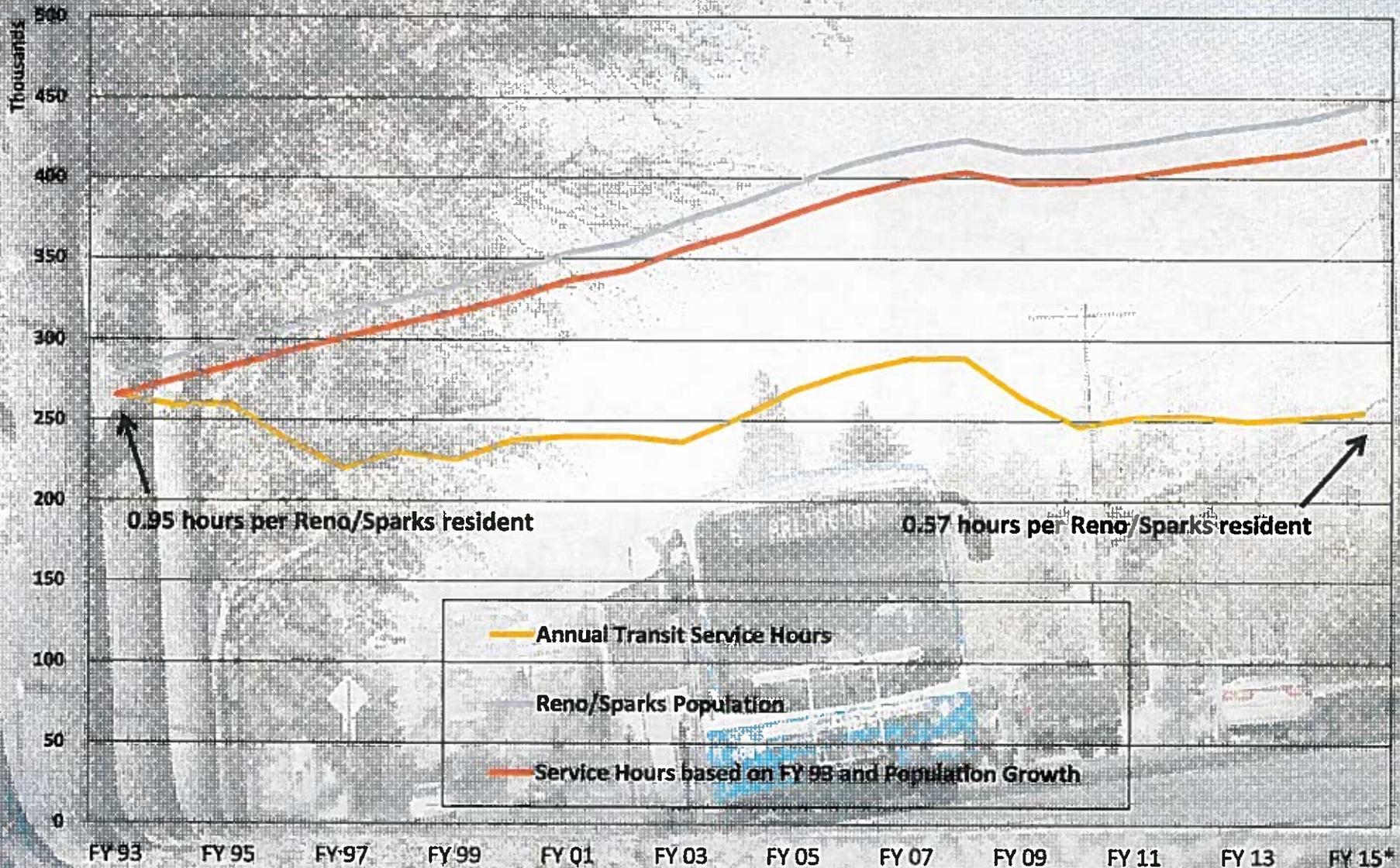


# PUBLIC TRANSPORTATION ELEMENTS OF THE 2040 RTP

- Fixed Route Bus Maintenance Facility
- Conversion to Electric Vehicle Technology
- Service Enhancements
  - New fixed route services
  - Commuter services to Tri-Center
  - RTC VANPOOL Program



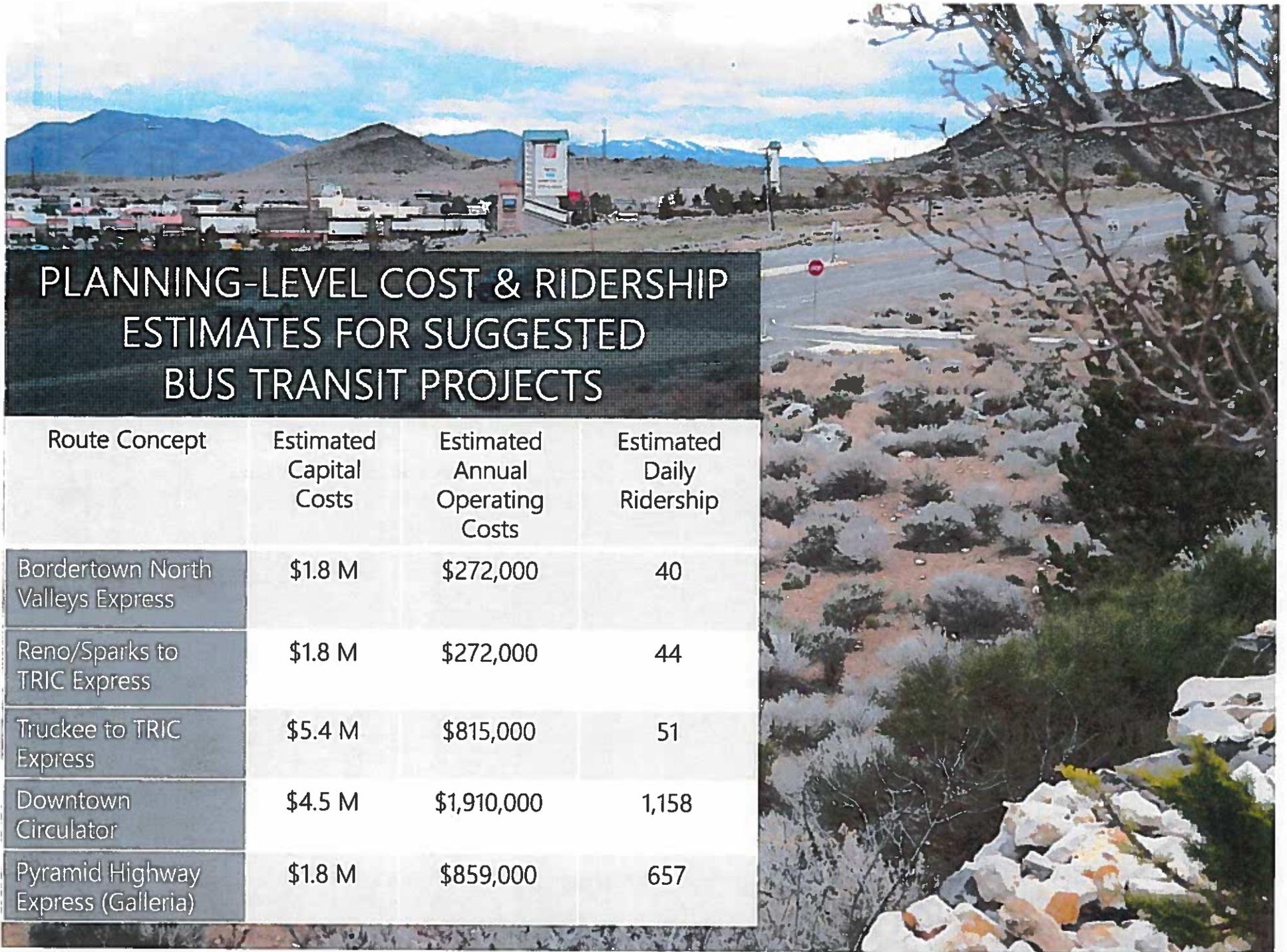
# POPULATION & SERVICE FY 1993 - 2015



\* - FY 2015 estimated

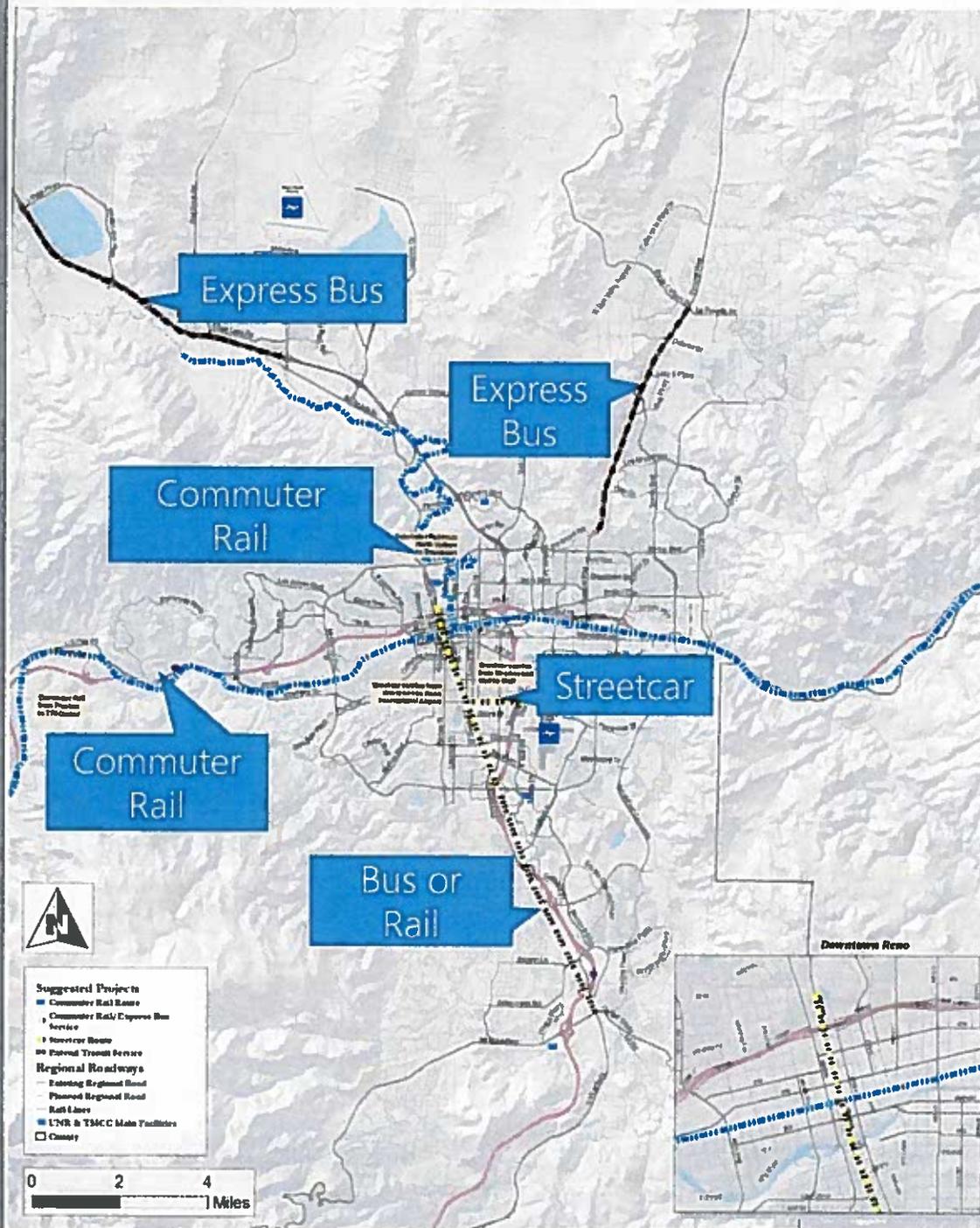
## PLANNING-LEVEL COST & RIDERSHIP ESTIMATES FOR SUGGESTED BUS TRANSIT PROJECTS

Route Concept	Estimated Capital Costs	Estimated Annual Operating Costs	Estimated Daily Ridership
Bordertown North Valleys Express	\$1.8 M	\$272,000	40
Reno/Sparks to TRIC Express	\$1.8 M	\$272,000	44
Truckee to TRIC Express	\$5.4 M	\$815,000	51
Downtown Circulator	\$4.5 M	\$1,910,000	1,158
Pyramid Highway Express (Galleria)	\$1.8 M	\$859,000	657



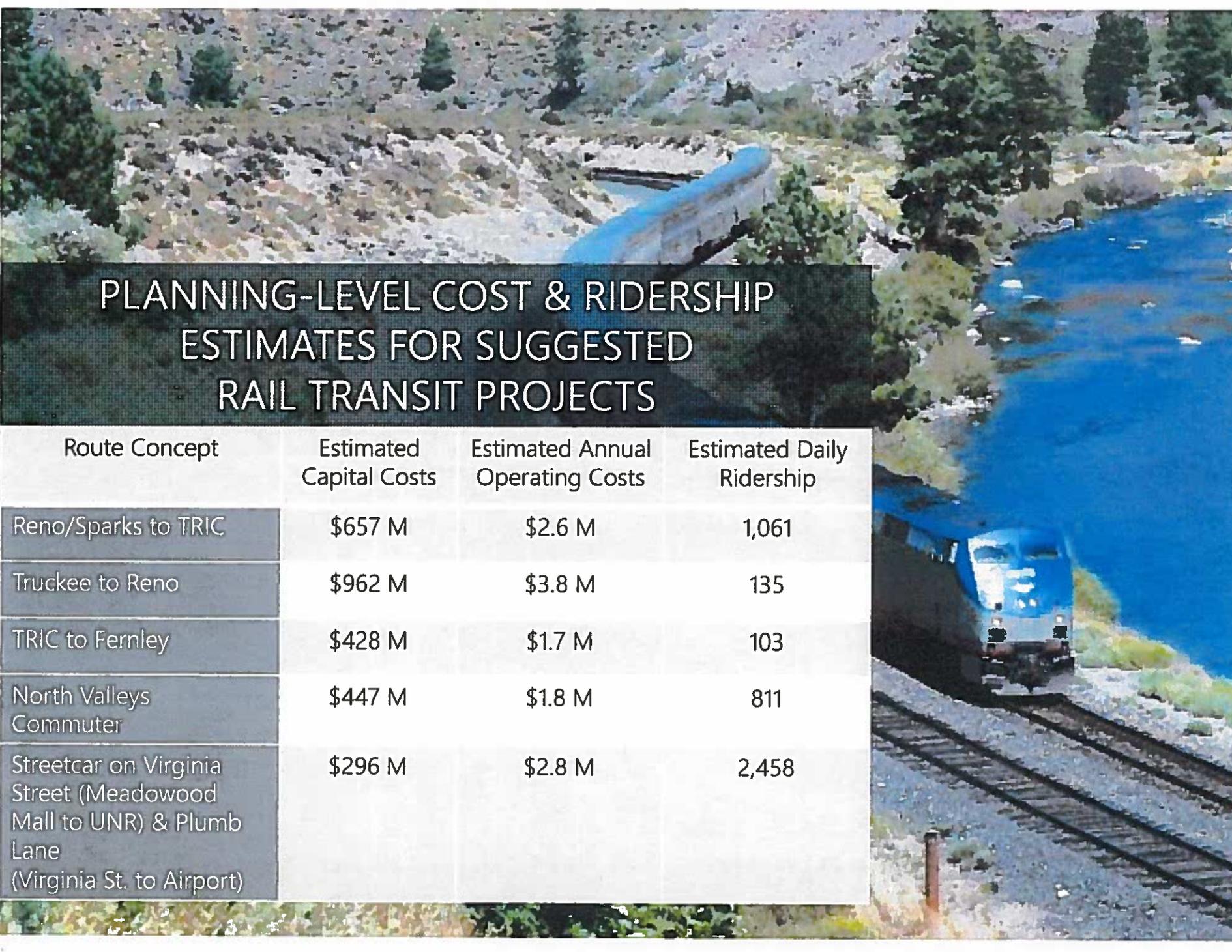
# REGIONAL RAIL & BUS PROJECTS SUGGESTED DURING 2040 RTP FORUMS

- Streetcar on S. Virginia St.
- Streetcar to Airport
- Commuter rail from Truckee to TRI Center
- Convert freight rail to commuter rail from North Valleys









## PLANNING-LEVEL COST & RIDERSHIP ESTIMATES FOR SUGGESTED RAIL TRANSIT PROJECTS

Route Concept	Estimated Capital Costs	Estimated Annual Operating Costs	Estimated Daily Ridership
Reno/Sparks to TRIC	\$657 M	\$2.6 M	1,061
Truckee to Reno	\$962 M	\$3.8 M	135
TRIC to Fernley	\$428 M	\$1.7 M	103
North Valleys Commuter	\$447 M	\$1.8 M	811
Streetcar on Virginia Street (Meadowood Mall to UNR) & Plumb Lane (Virginia St. to Airport)	\$296 M	\$2.8 M	2,458

# FIXED GUIDEWAY CHALLENGES

- Stable and Reliable Funding for Capital and Operating
- Supportive Land Use
- Value Capture Investment
- Federal New Starts/Small Starts Funding
  - Highly competitive
  - Complex process
  - Funding/Ridership/Land Use central elements to success



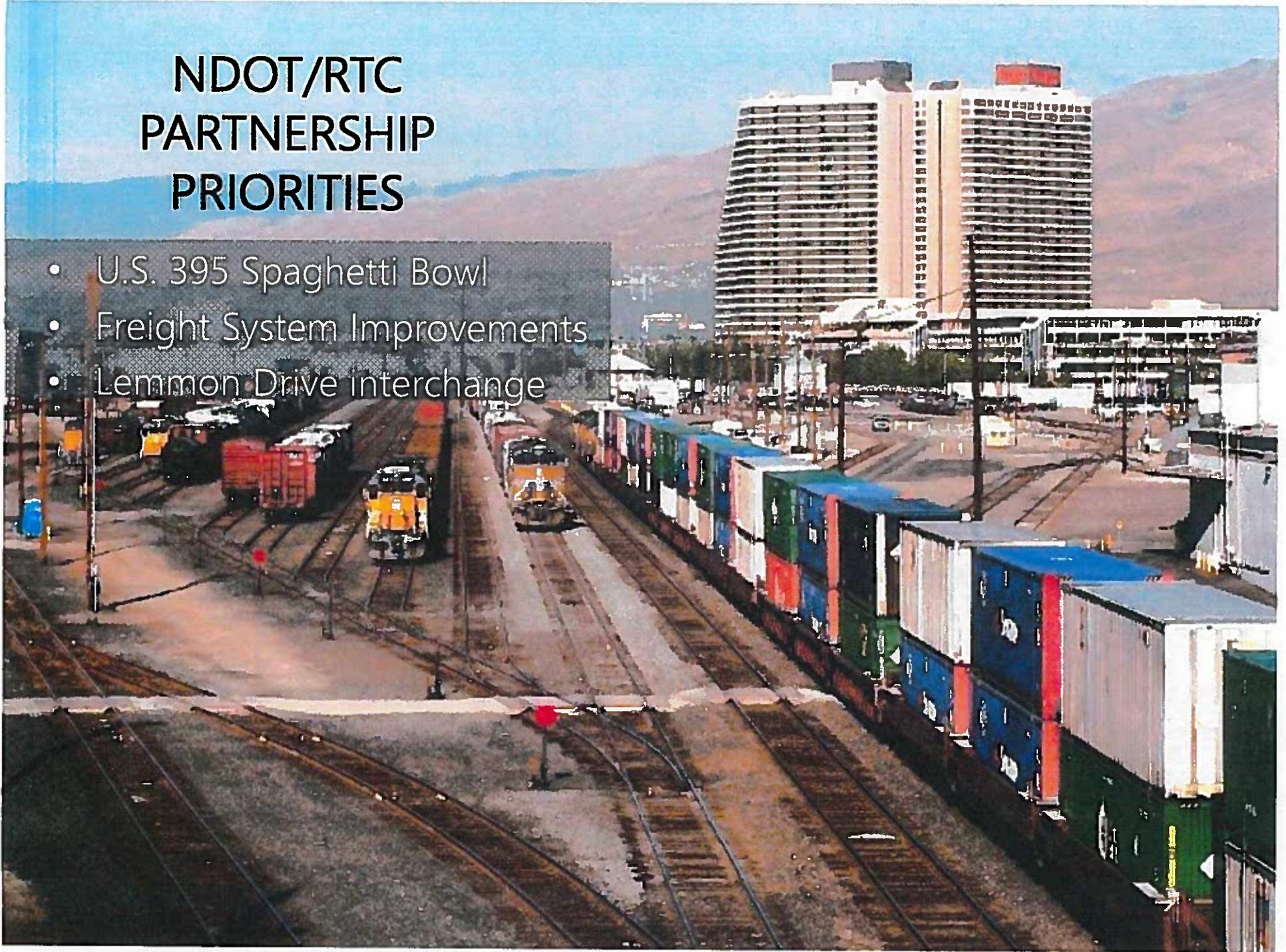
# MAKING FIXED GUIDEWAY A REALITY

- Land Use
  - Increase density and mix on Virginia Street
  - Park Lane Mall site mixed use high density master planned site
  - Mill Street to GSR land use density
- Funding
  - Need stable and reliable funding sources
  - Public private partnerships
  - Federal partnerships



# NDOT/RTC PARTNERSHIP PRIORITIES

- U.S. 395 Spaghetti Bowl
- Freight System Improvements
- Lemmon Drive interchange



# I-80/I-580/U.S. 395 INTERCHANGE



## OUR ASK OF THE STATE

- Commitment to the Spaghetti Bowl
- Promote land use and transportation coordination
  - NDOT
  - RTC
  - Regional entities
  - Local entities
- Commitment to a coordinated Federal strategy to leverage FAST Act opportunities



Thank You.

LEE G. GIBSON, AICP  
Executive Director

Regional Transportation Commission of Washoe County  
[lgibson@rtcwashoe.com](mailto:lgibson@rtcwashoe.com)

[rtcwashoe.com](http://rtcwashoe.com)

Your RTC. Our Community.

