

# Utah Department of Transportation

Long-Term Planning Needs and Update

Interim Transportation Committee

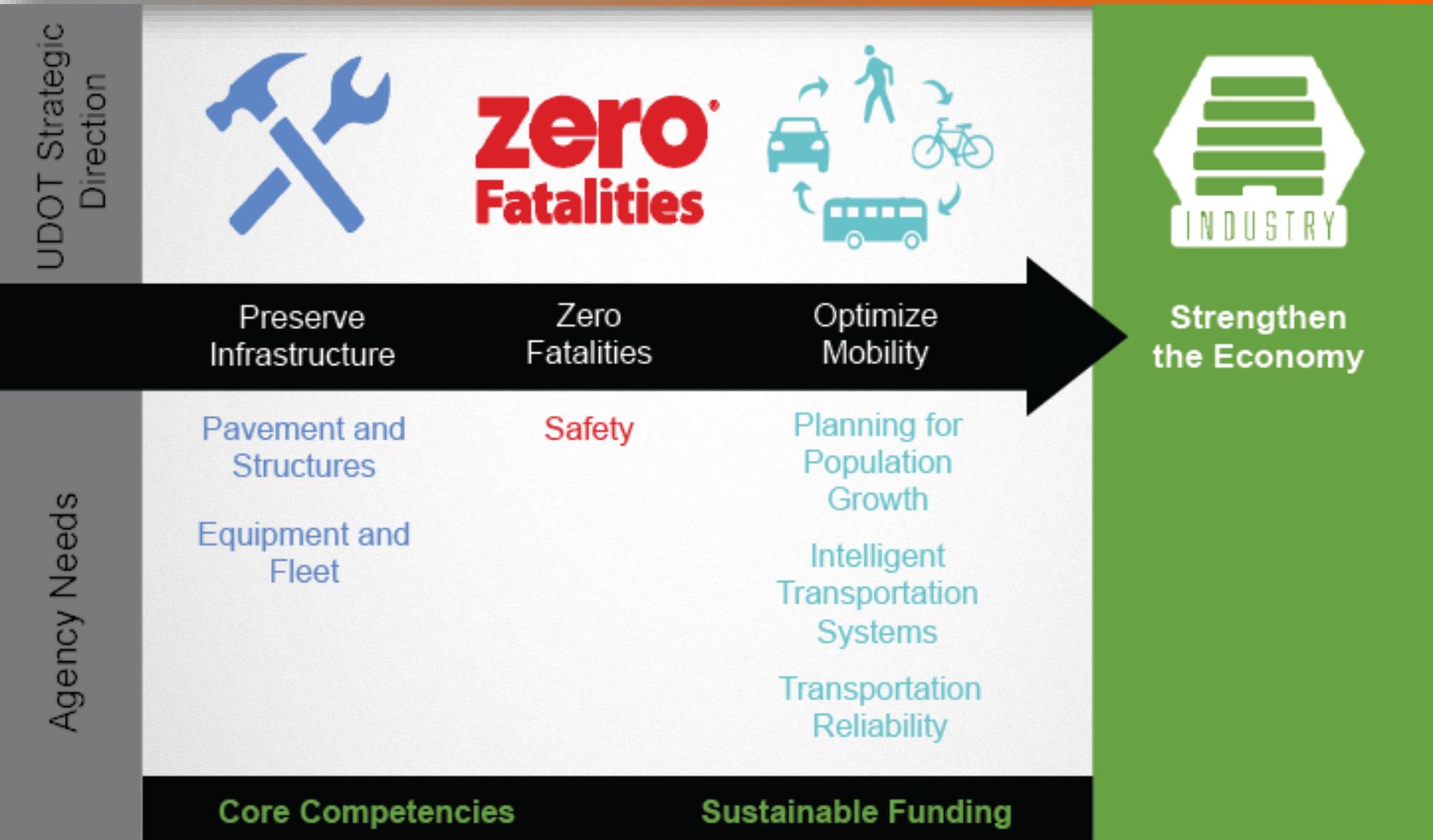
June 18, 2014

Carlos Braceras, P.E.

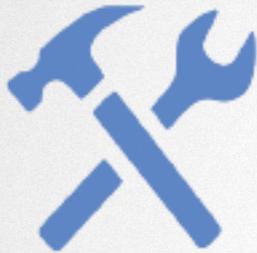
Executive Director, UDOT



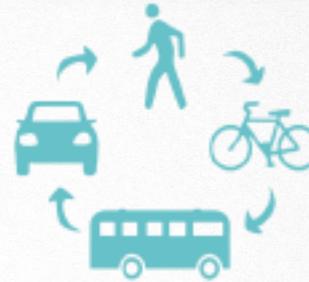
# Long-Term Planning Needs



UDOT Strategic  
Direction



**zero**  
**Fatalities**



Preserve  
Infrastructure

Zero  
Fatalities

Optimize  
Mobility

Strengthen  
the Economy

Pavement and  
Structures

Safety

Planning for  
Population  
Growth

Equipment and  
Fleet

Intelligent  
Transportation  
Systems

Transportation  
Reliability

Core Competencies

Sustainable Funding

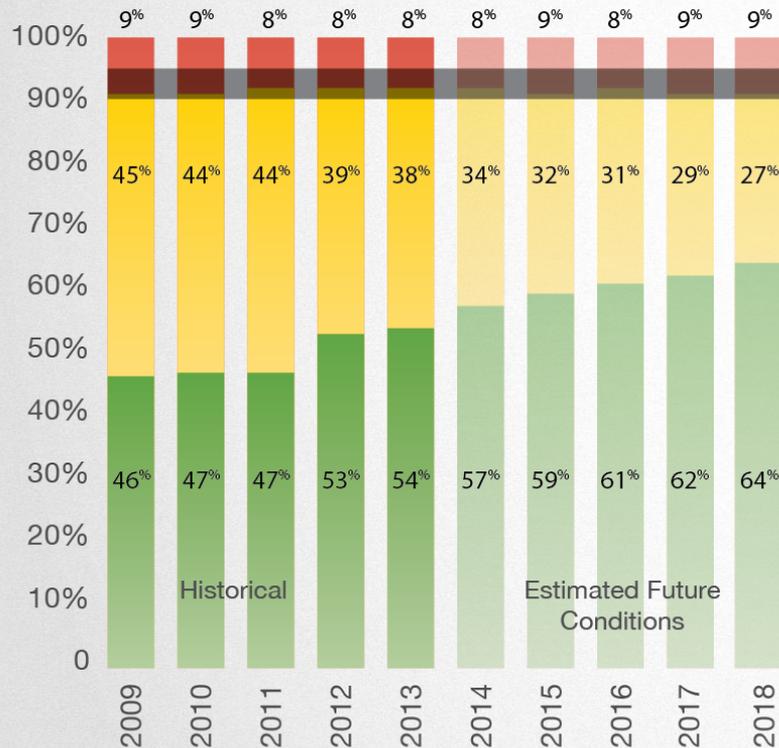
Agency Needs



# Pavement Preserve Infrastructure

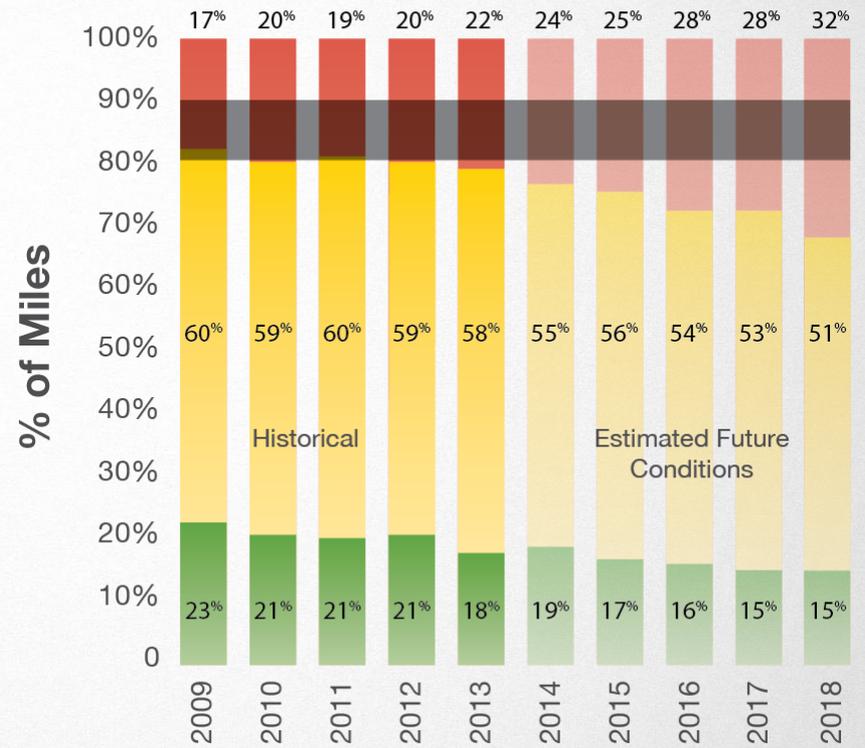
## Level 1 Roads

Ride Quality—Forecasted with \$106 million NHPP+STP/yr



## Level 2 Roads

Ride Quality—Forecasted with \$10 million Code 1/yr





# Pavement Preserve Infrastructure

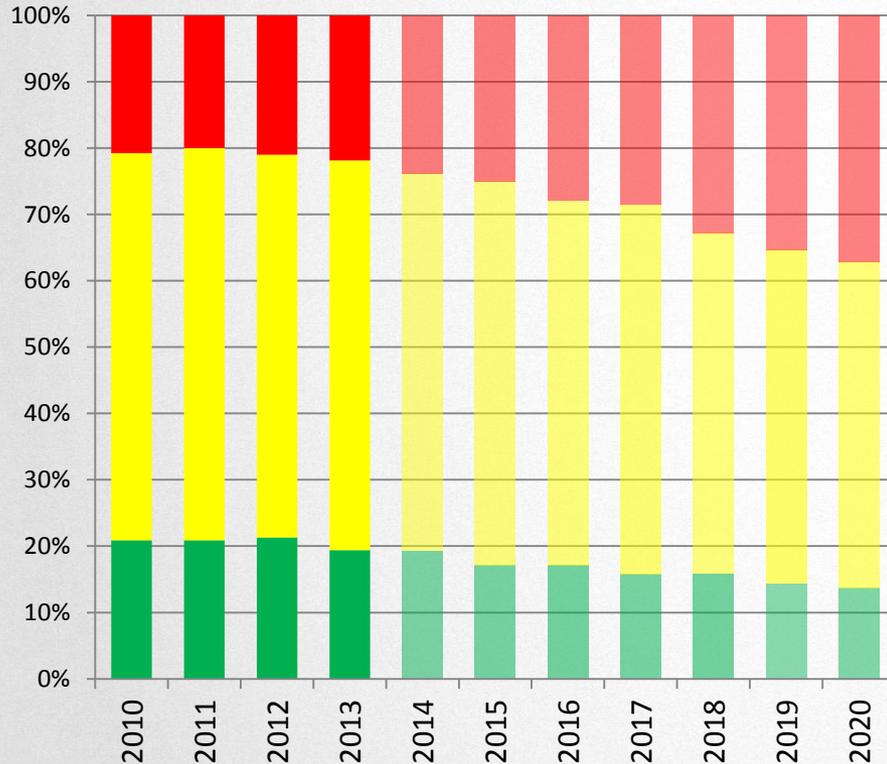




# Pavement Preserve Infrastructure

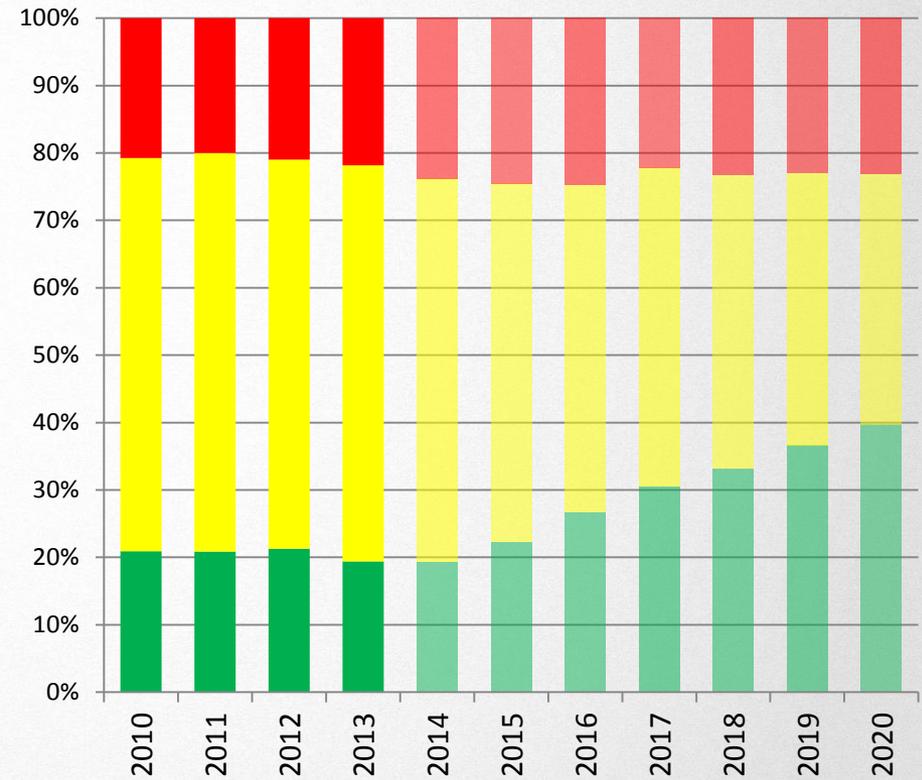
## Level 2 Condition

Forecast with \$10 million/yr



## Level 2 Condition

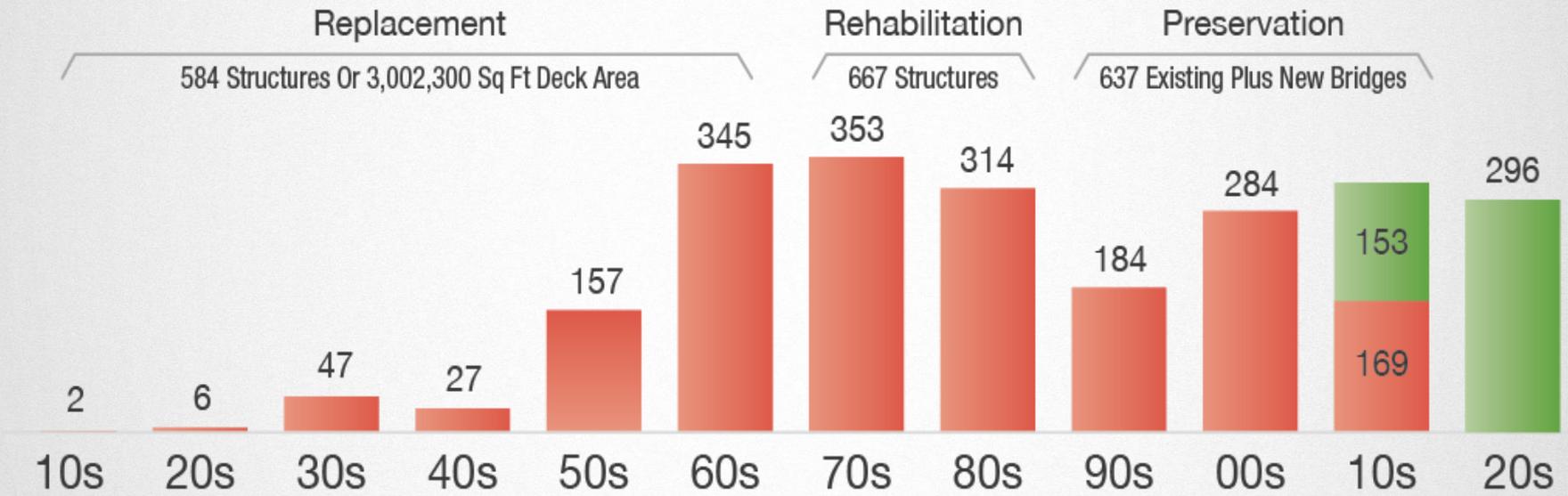
Forecast with \$50 million/yr





# Bridges

## Preserve Infrastructure



20 Yr: Replacement program for older bridges:

20 Yr: Rehabilitation /Preservation program for newer bridges:

\$31 Million Yearly

\$17 Million Yearly



# Equipment and Fleet

## Preserve Infrastructure

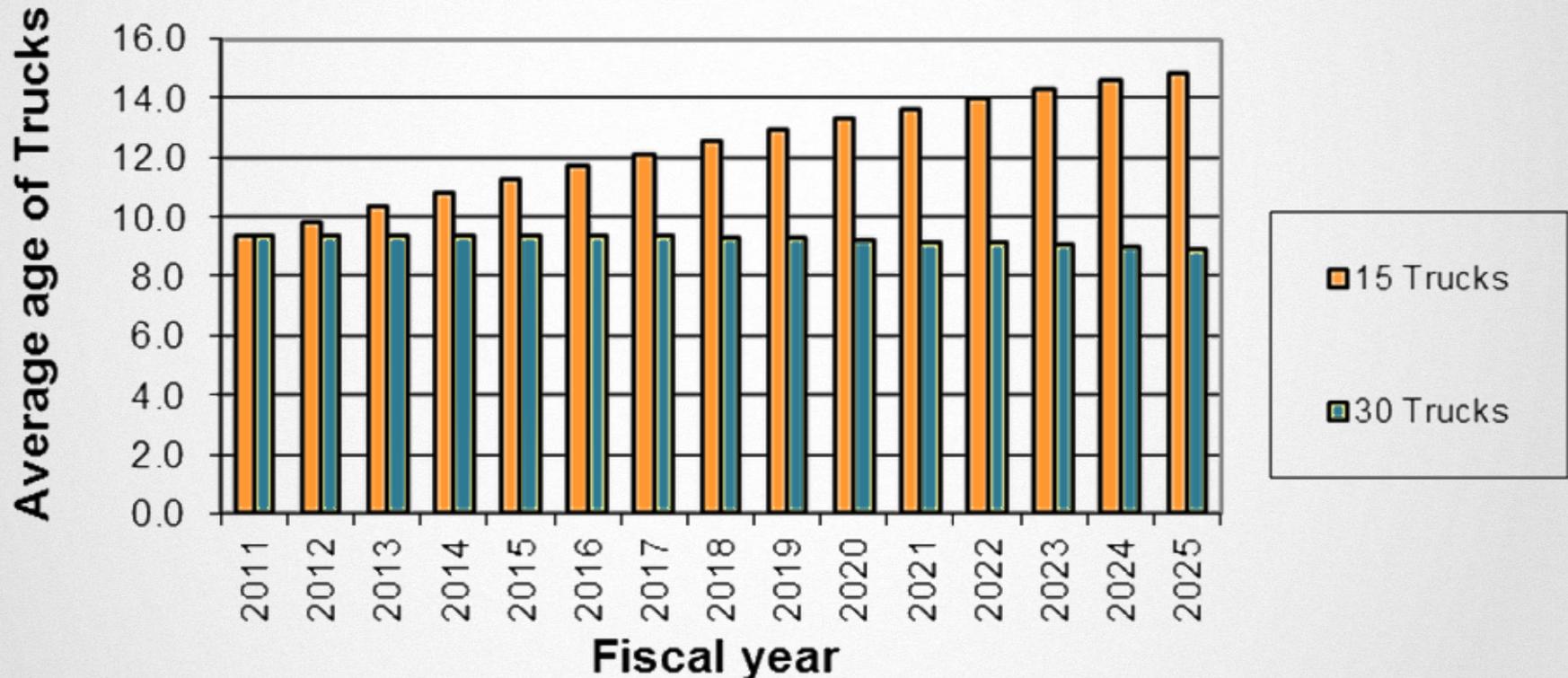




# The Challenge: Aging Fleet

Preserve Infrastructure

## Buying 15 Trucks Per Year vs 30

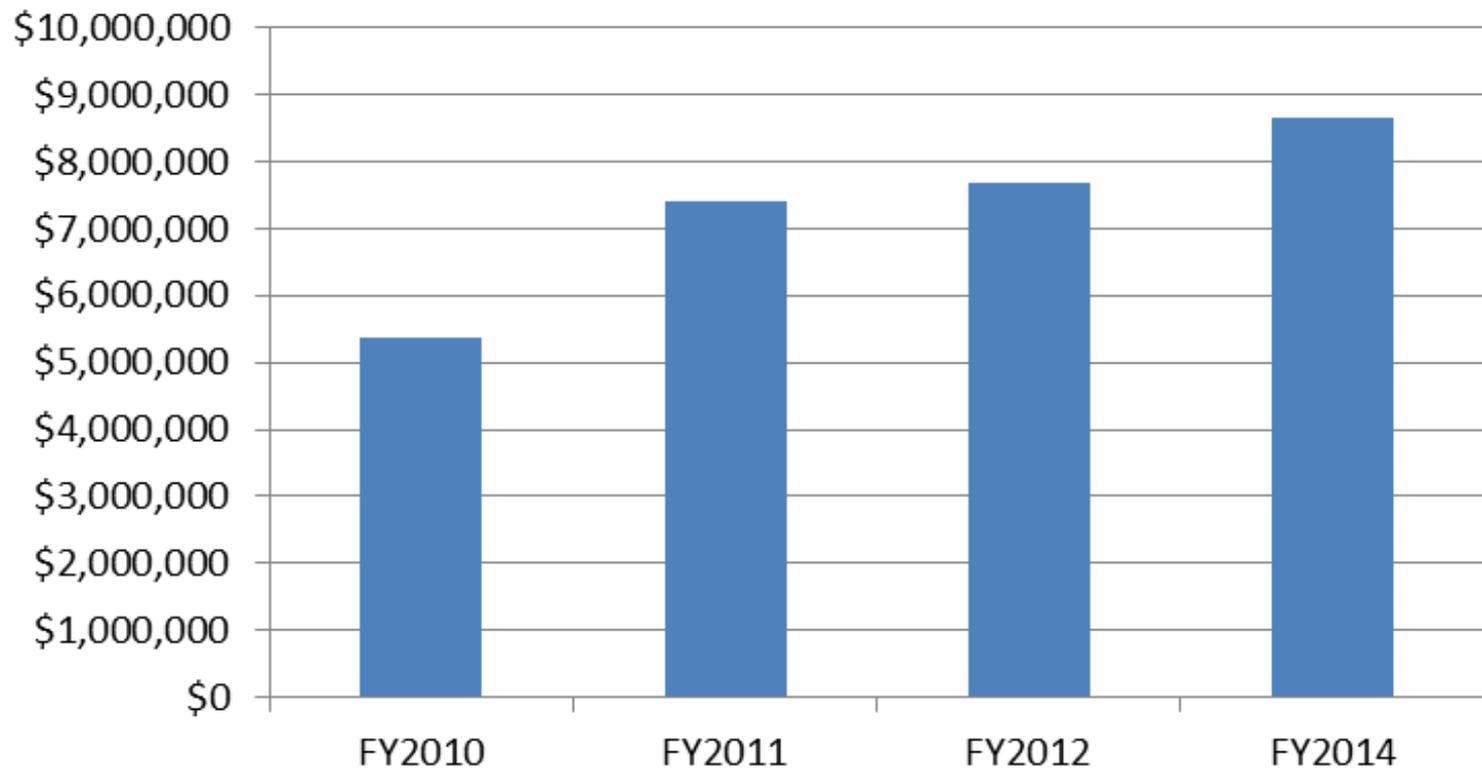




# Cost of Aging Fleet

## Preserve Infrastructure

### Repair costs over the last 4 years



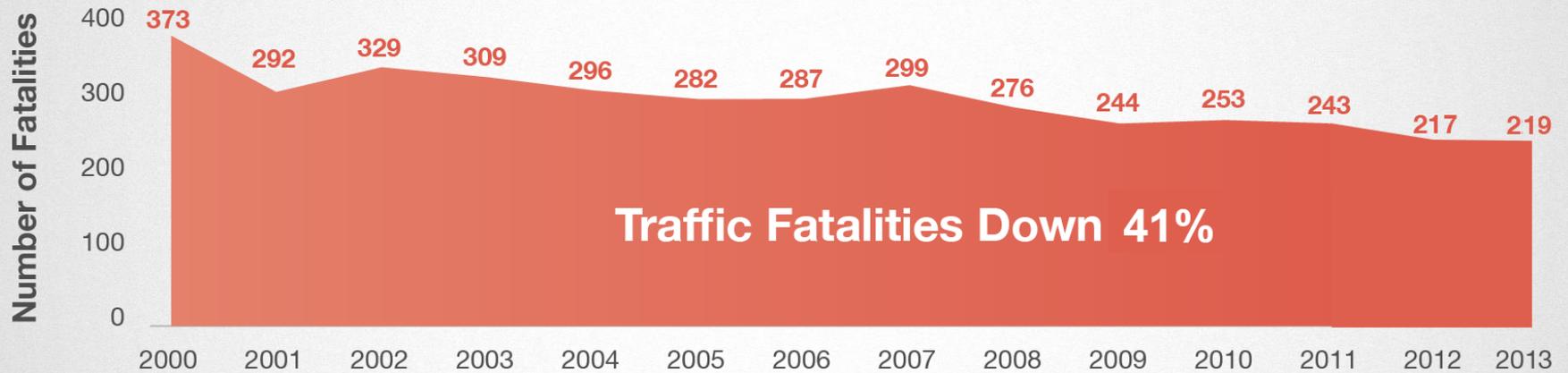


# Equipment Acquisition

Preserve Infrastructure

## Equipment Leased Yearly

Equipment	Number	Lease Expense
Backhoes	28	\$87,528.00
Farm Tractors	23	\$76,187.50
Graders	8	\$160,000.00
Loaders	26	\$255,845.00
Skid Steer Loaders	6	\$19,500.00



Average seat belt use is



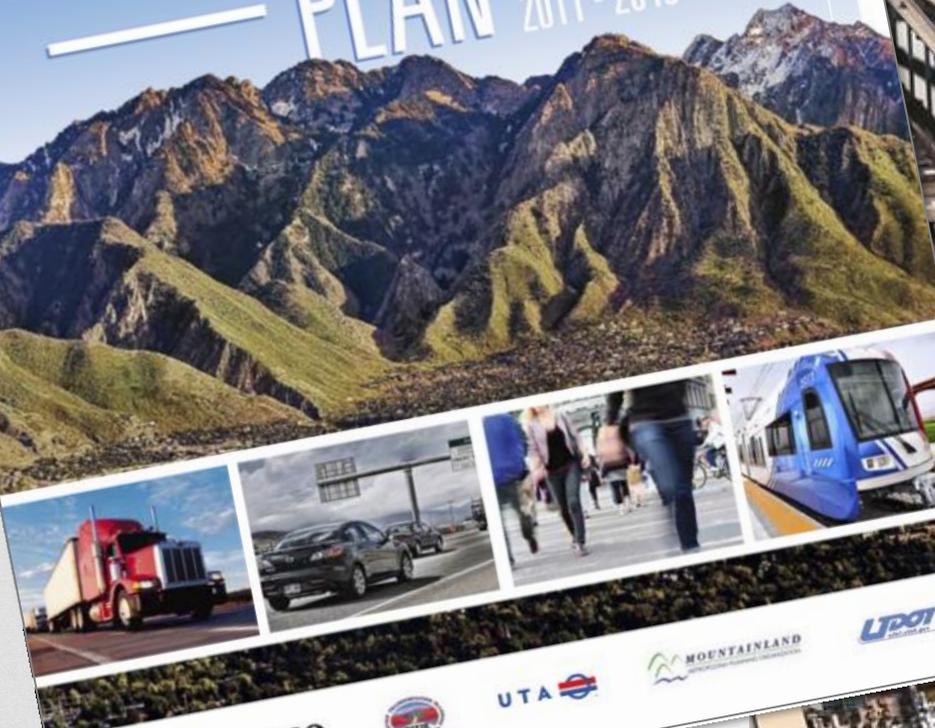
higher in states with a primary  
seat belt law





# Population Growth Optimize Mobility

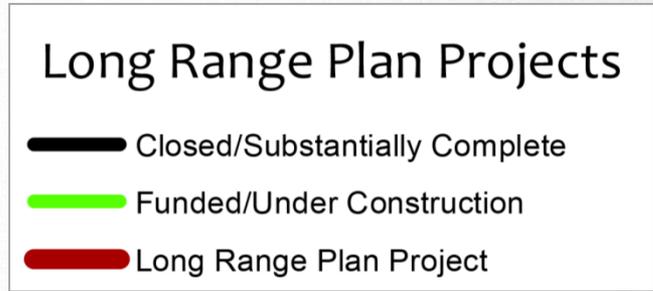
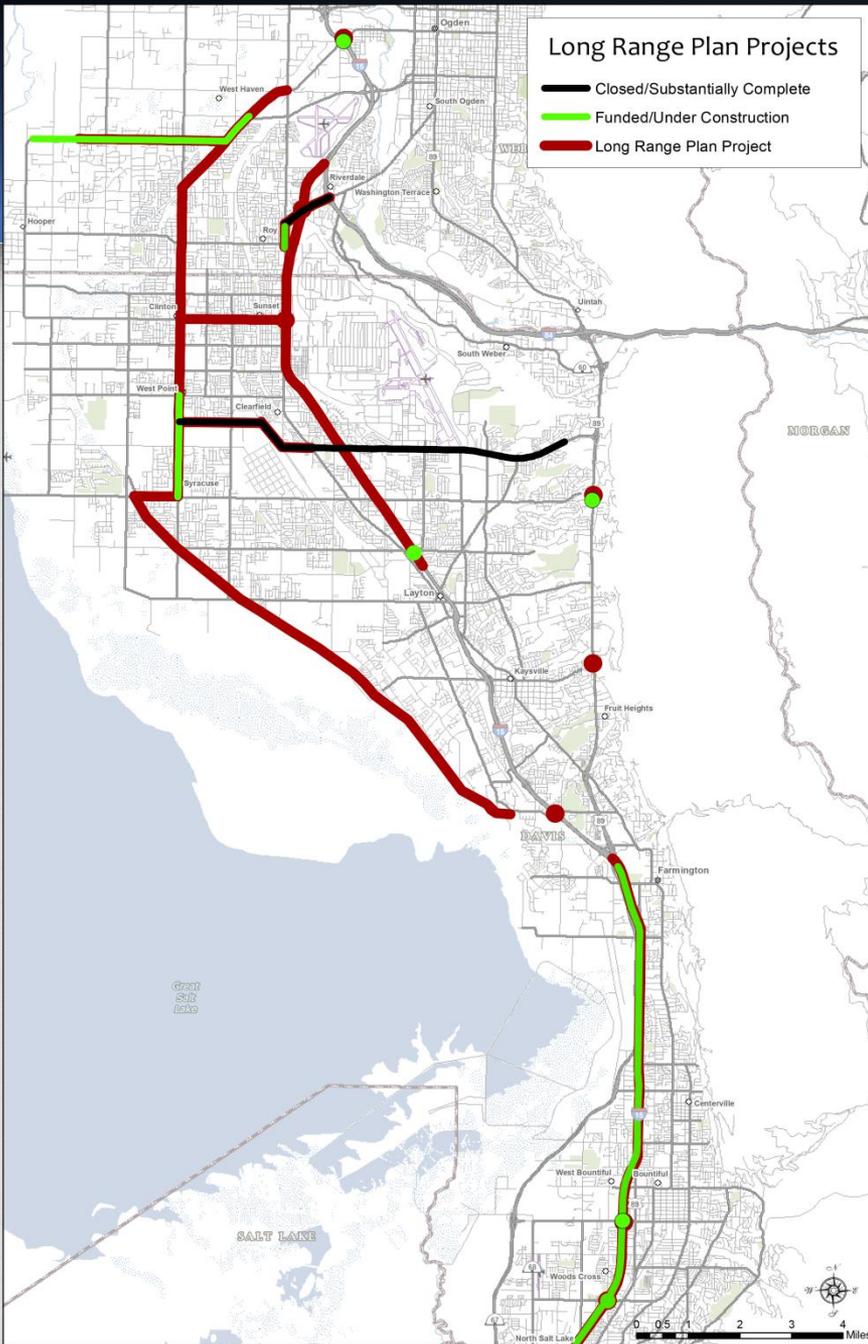
## UTAH'S UNIFIED TRANSPORTATION PLAN 2011 - 2040



# Long-Range Plan Projects

## Optimize Mobility

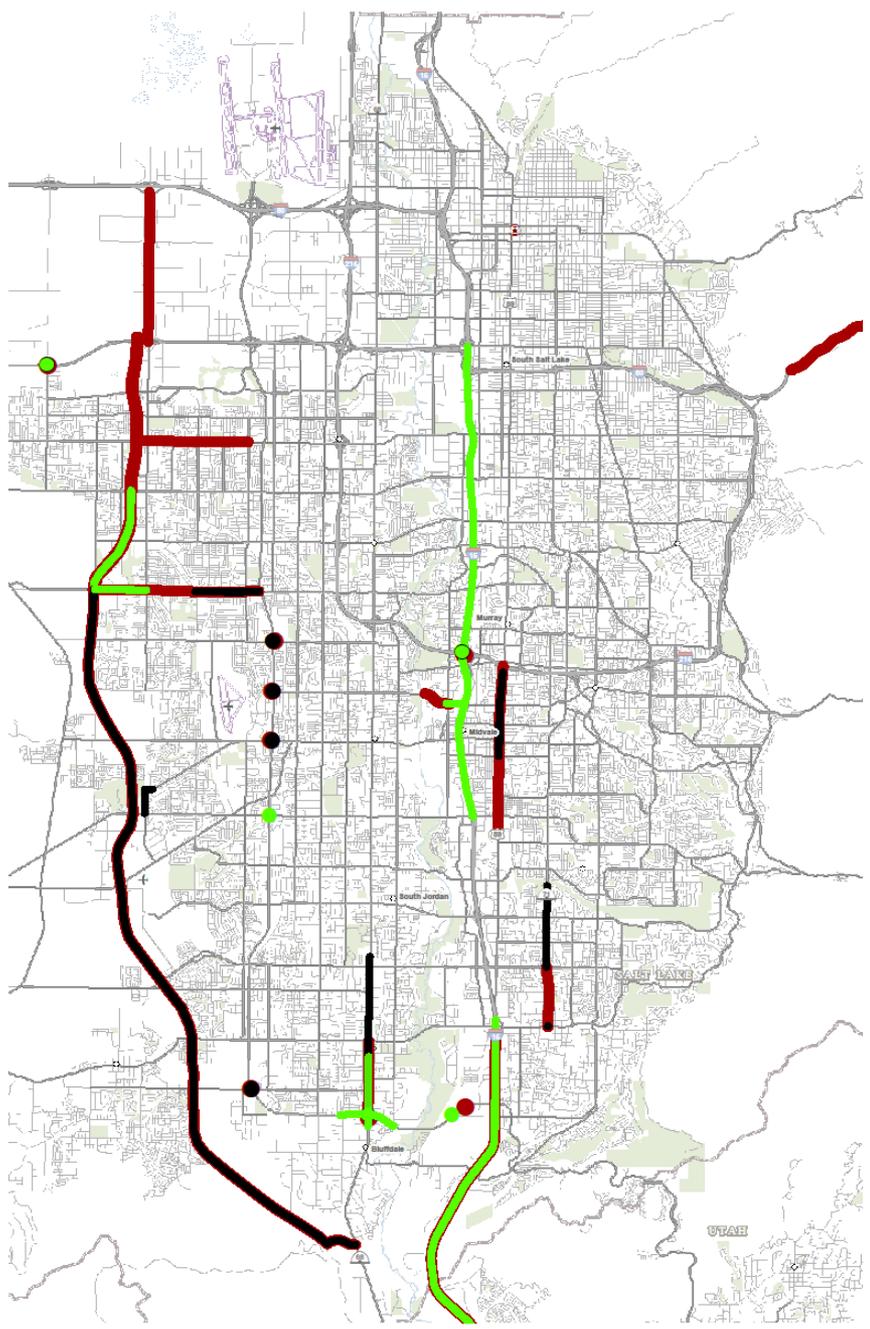
# Davis and Weber Counties



# Long-Range Plan Projects

## Optimize Mobility

### Salt Lake County



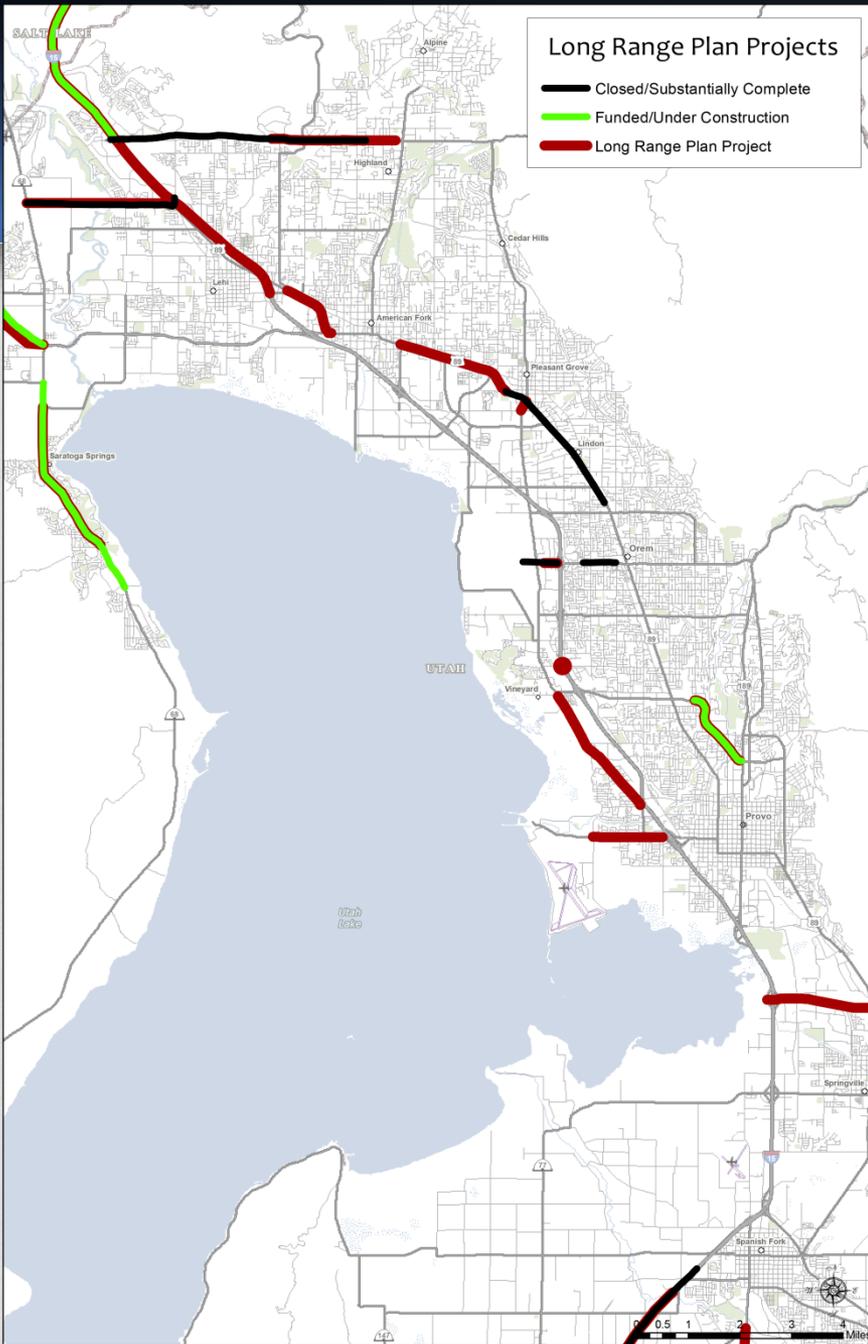
**Long Range Plan Projects**

-  Closed/Substantially Complete
-  Funded/Under Construction
-  Long Range Plan Project

# Long-Range Plan Projects

## Optimize Mobility

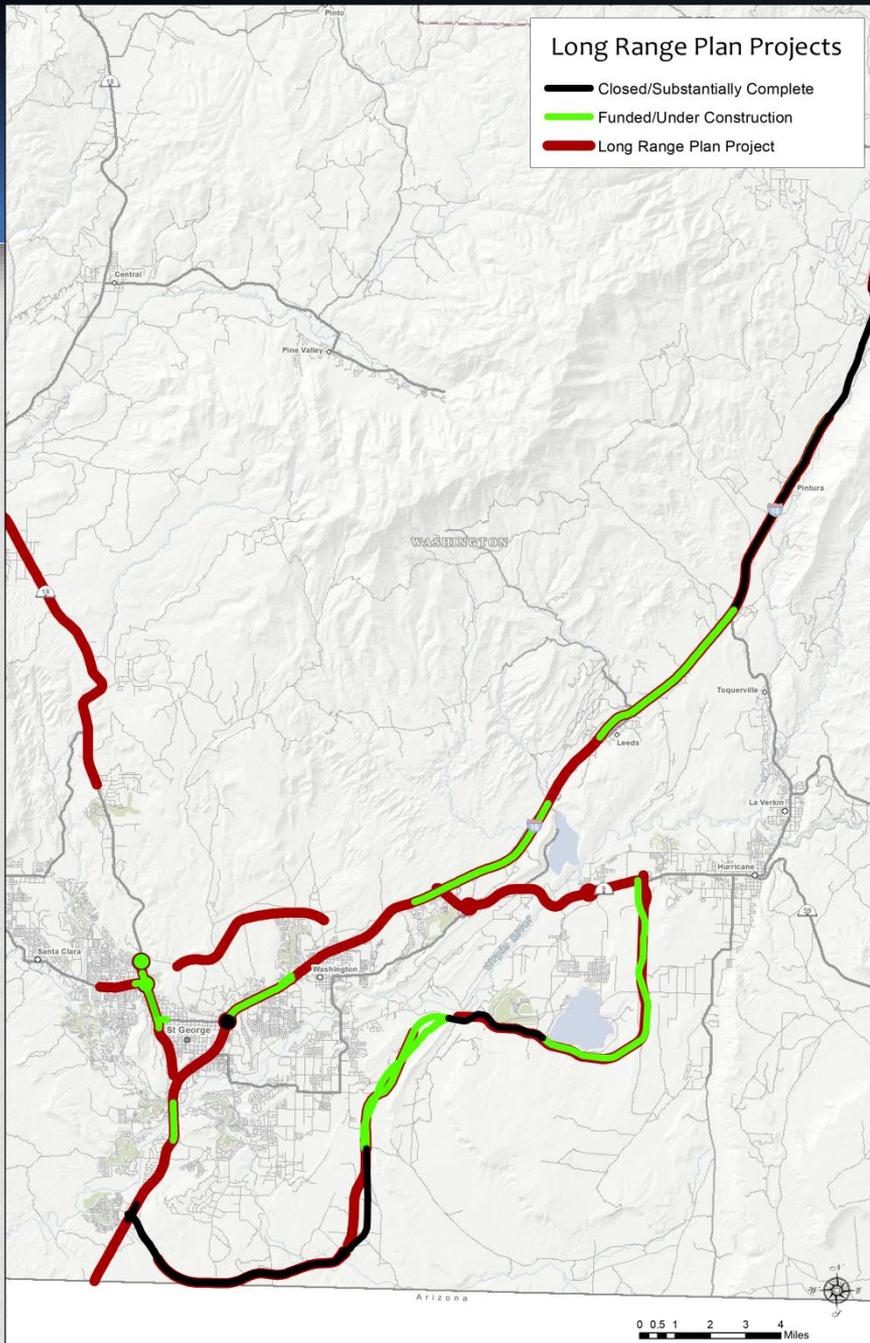
# Utah County



# Long-Range Plan Projects

## Optimize Mobility

### St. George



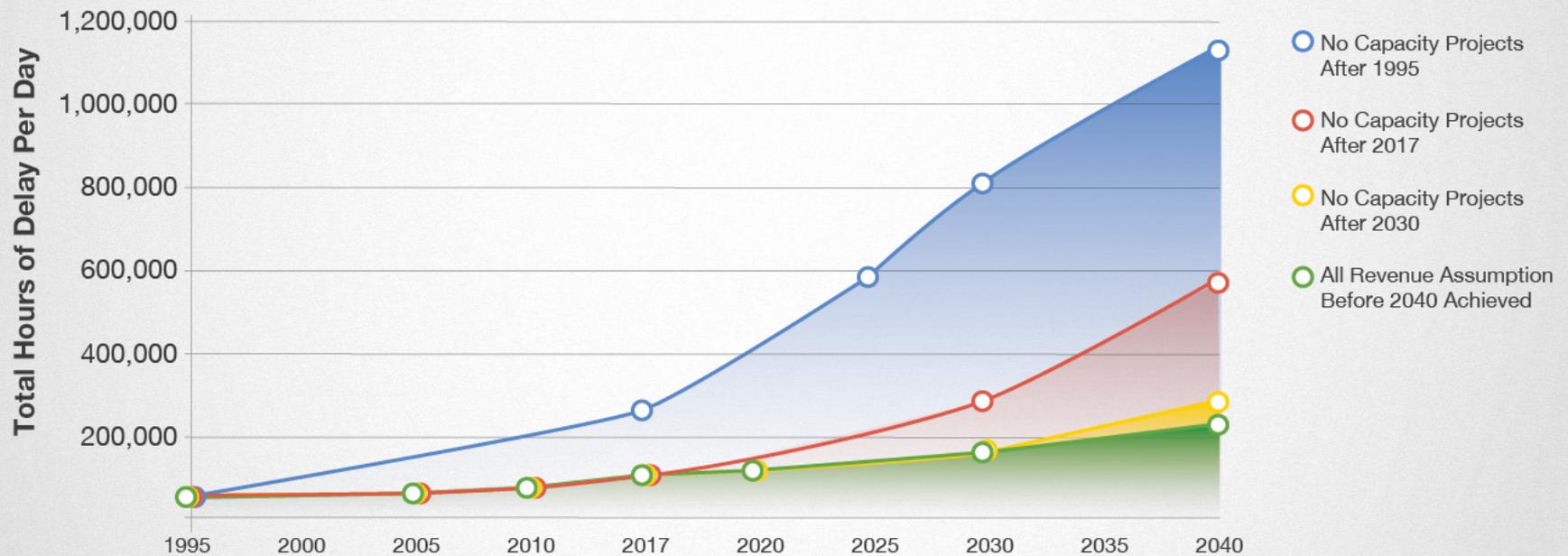


# Improved Traffic Movement

## Optimize Mobility

### Delay Along the Wasatch Front

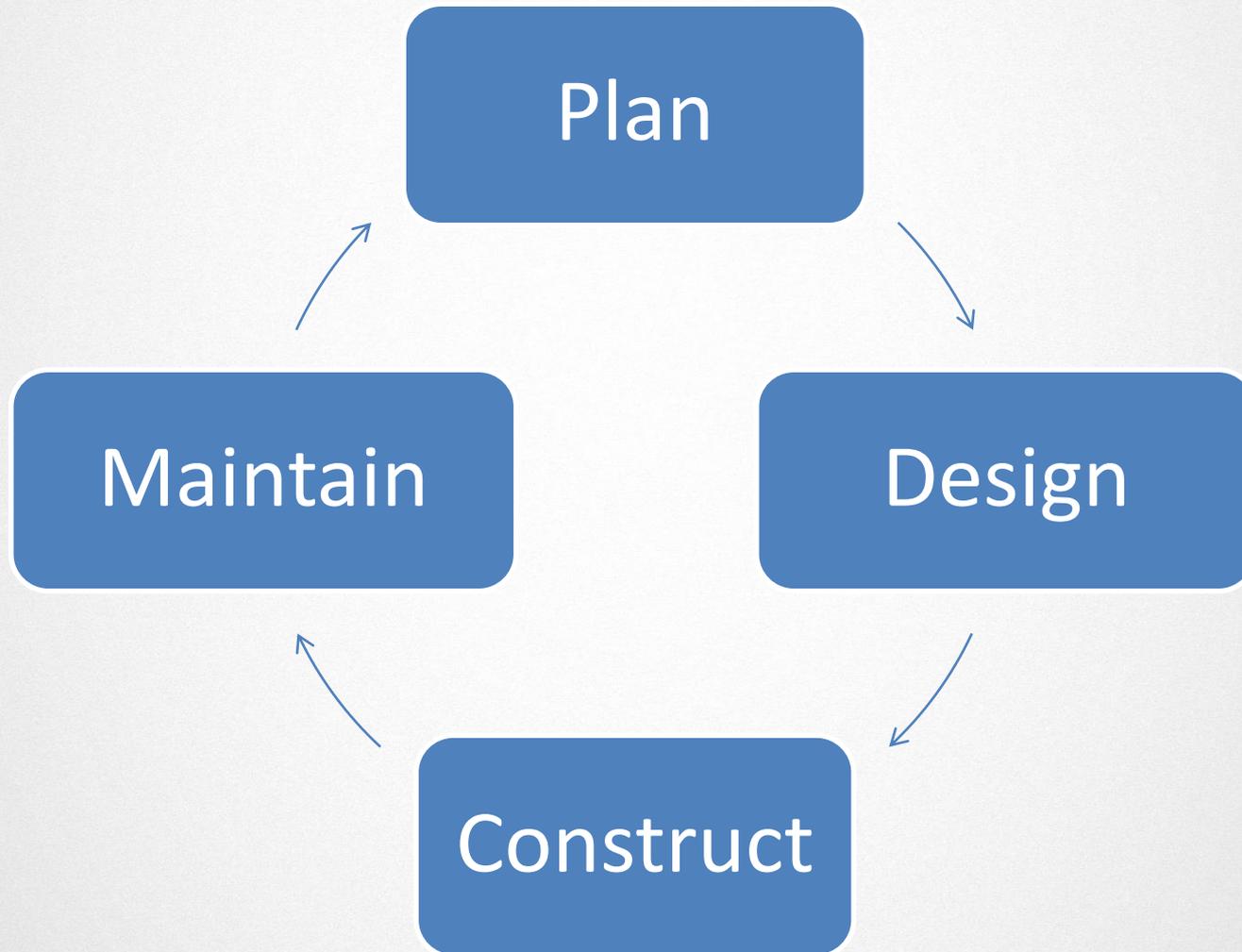
Davis, Weber, Salt Lake & Utah Counties





# Shifting Paradigm in Transportation

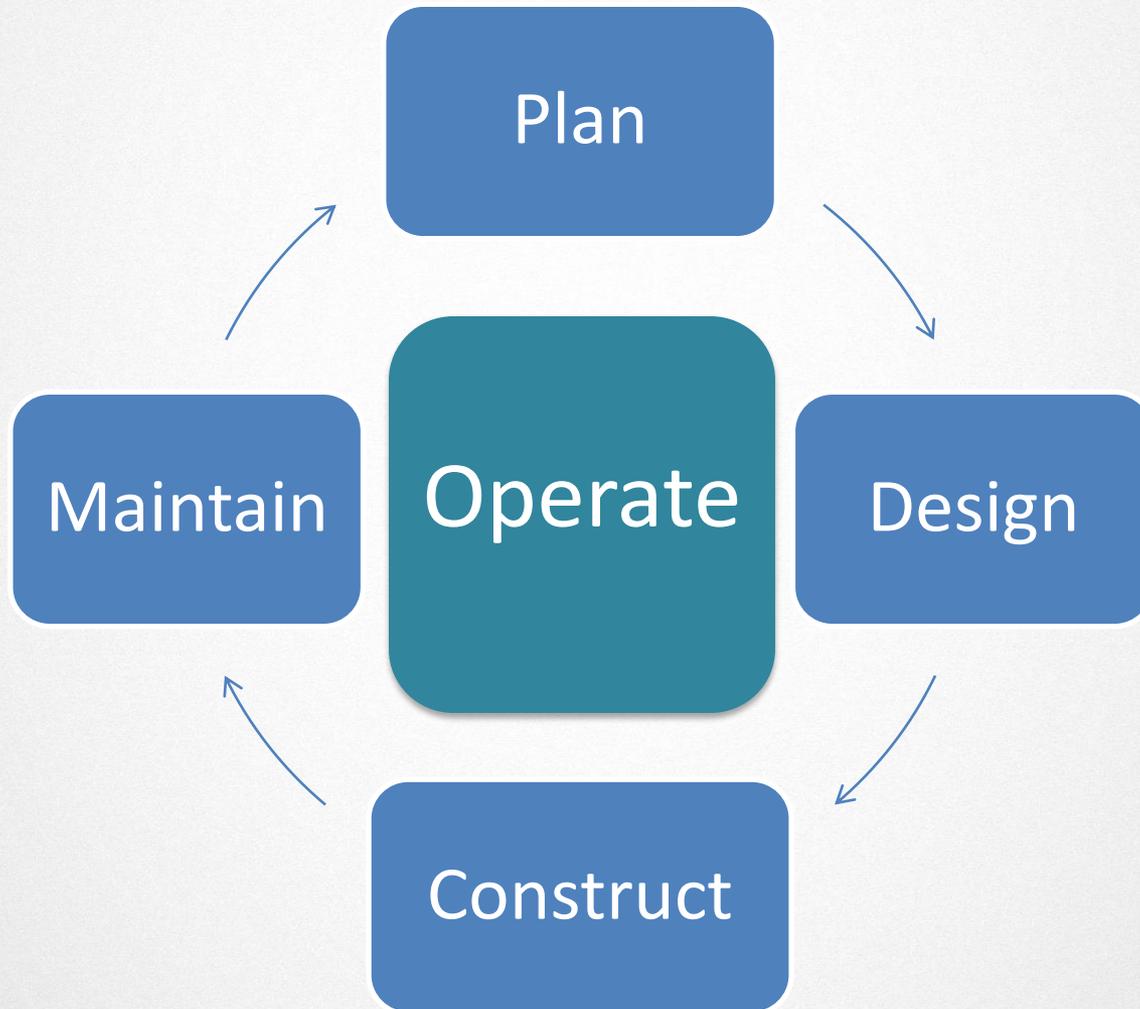
Optimize Mobility





# Shifting Paradigm in Transportation

Optimize Mobility





# Intelligent Transportation Systems

## Optimize Mobility





# Express/HOV Lanes

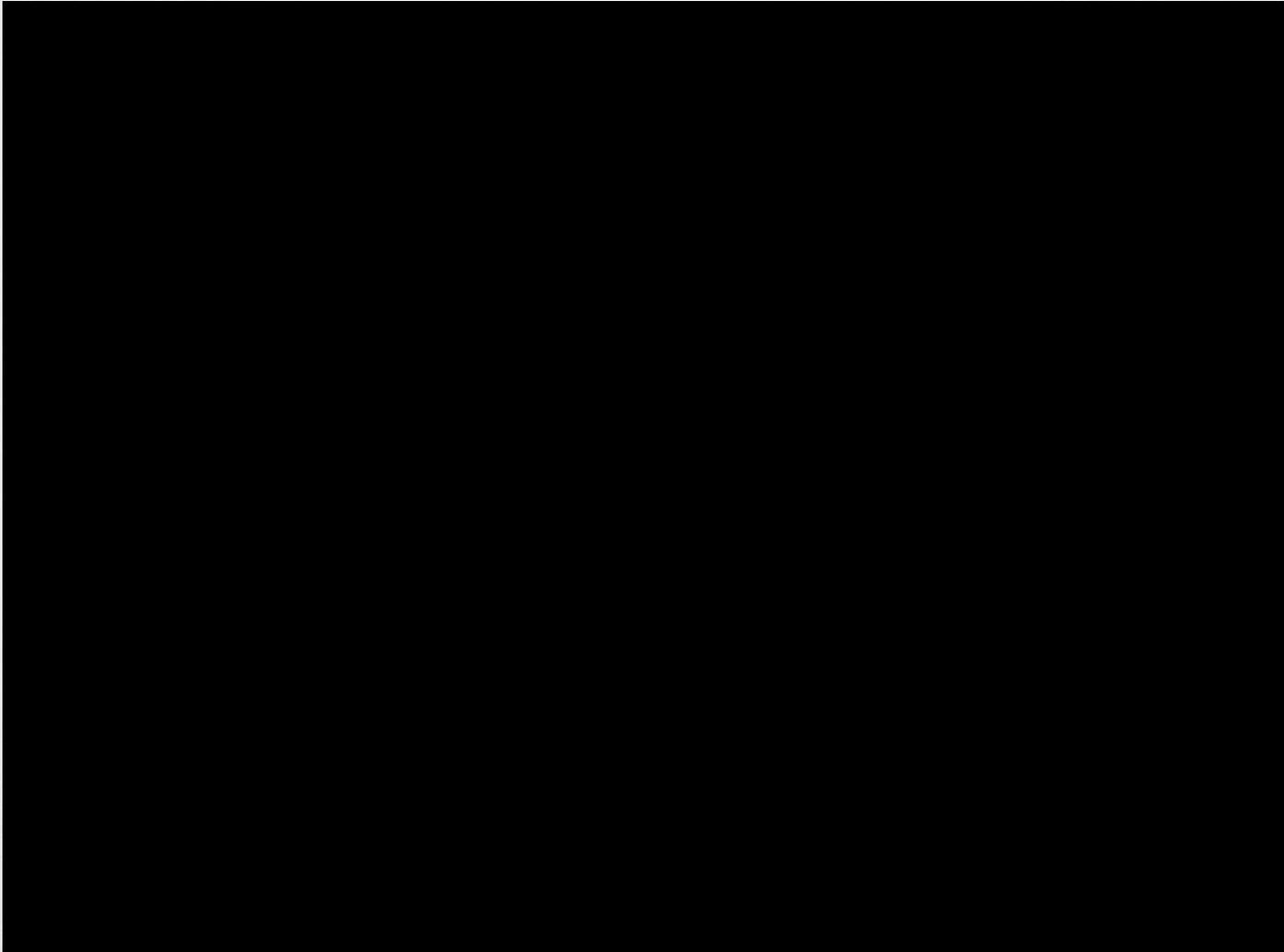
## Optimize Mobility



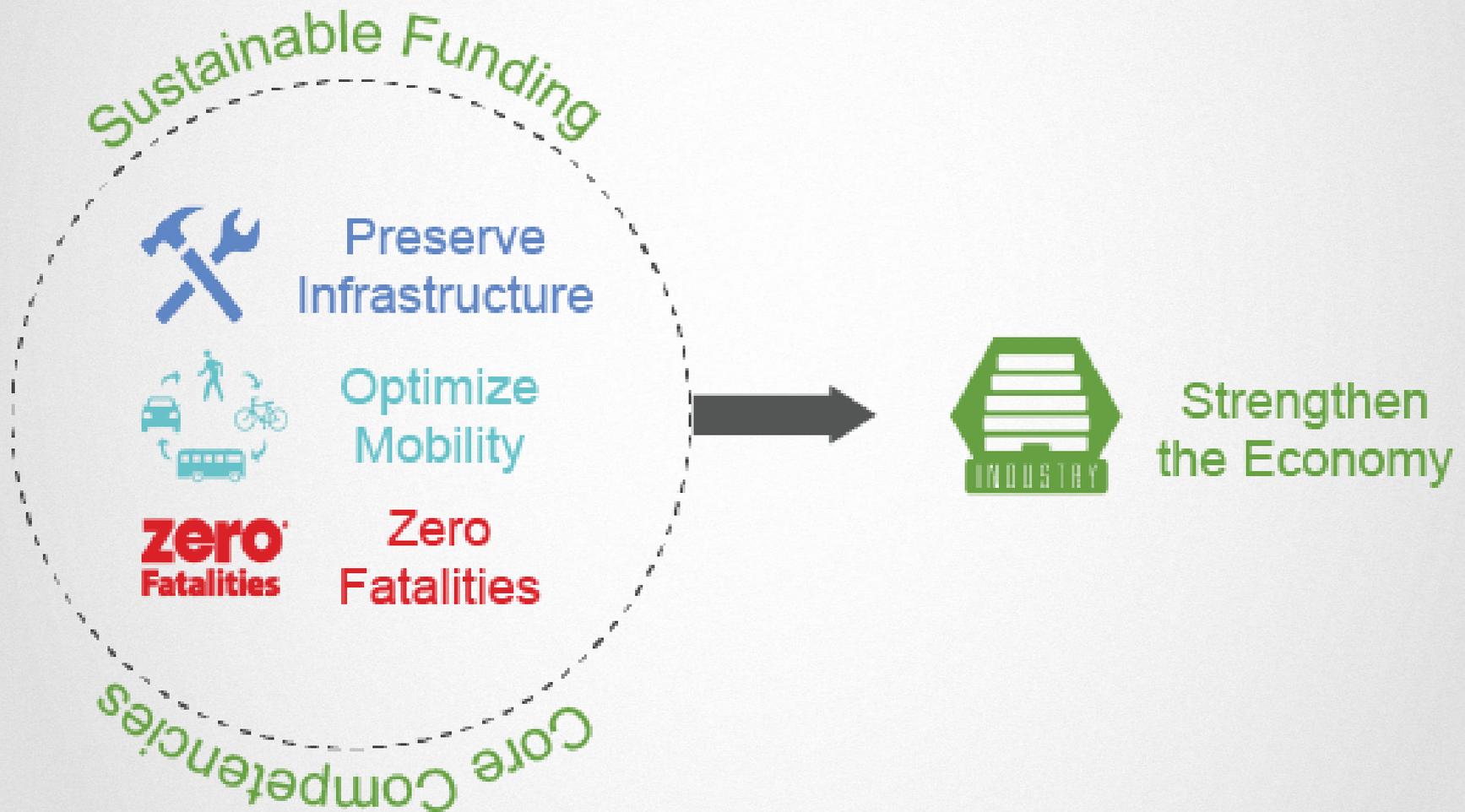


# Future ITS – Driverless Vehicles

## Optimize Mobility

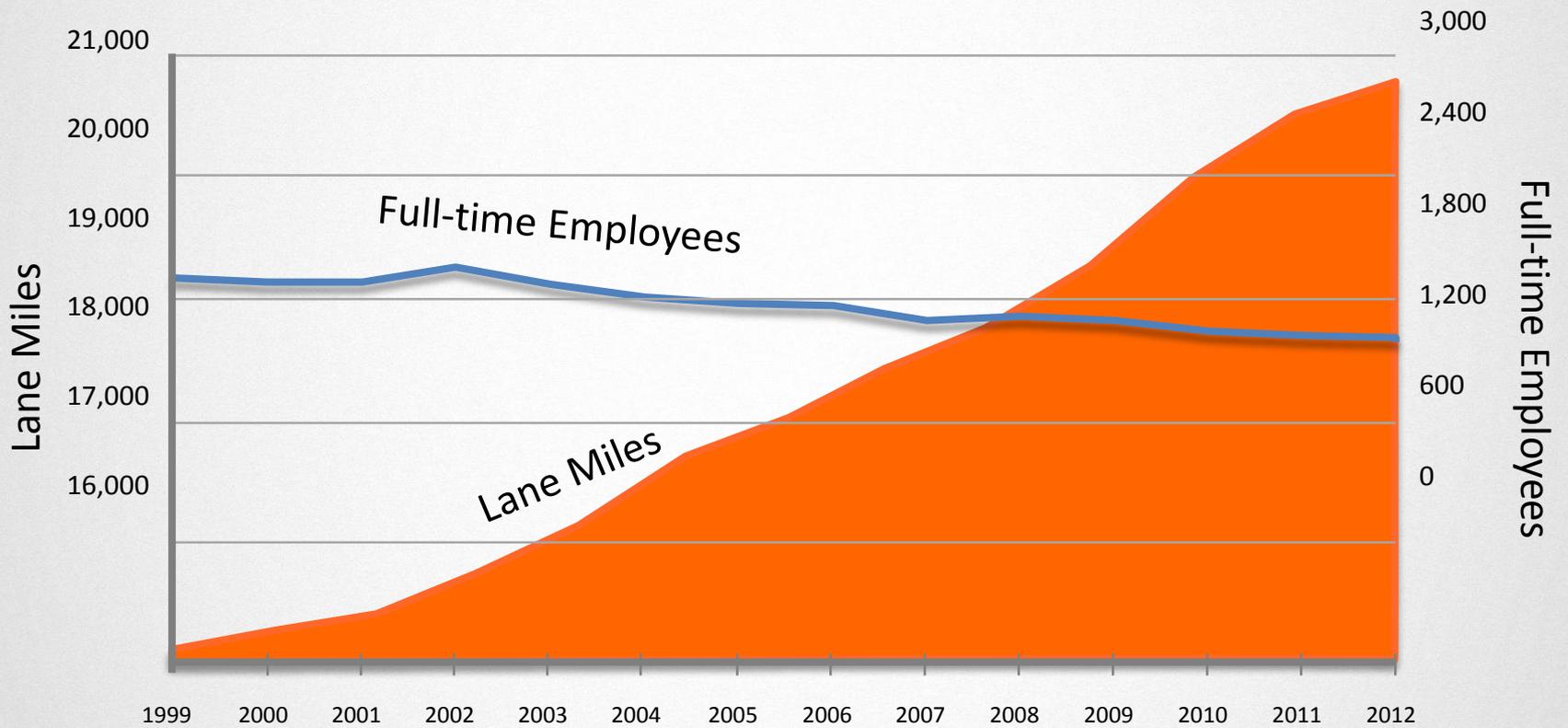


# Overall Needs



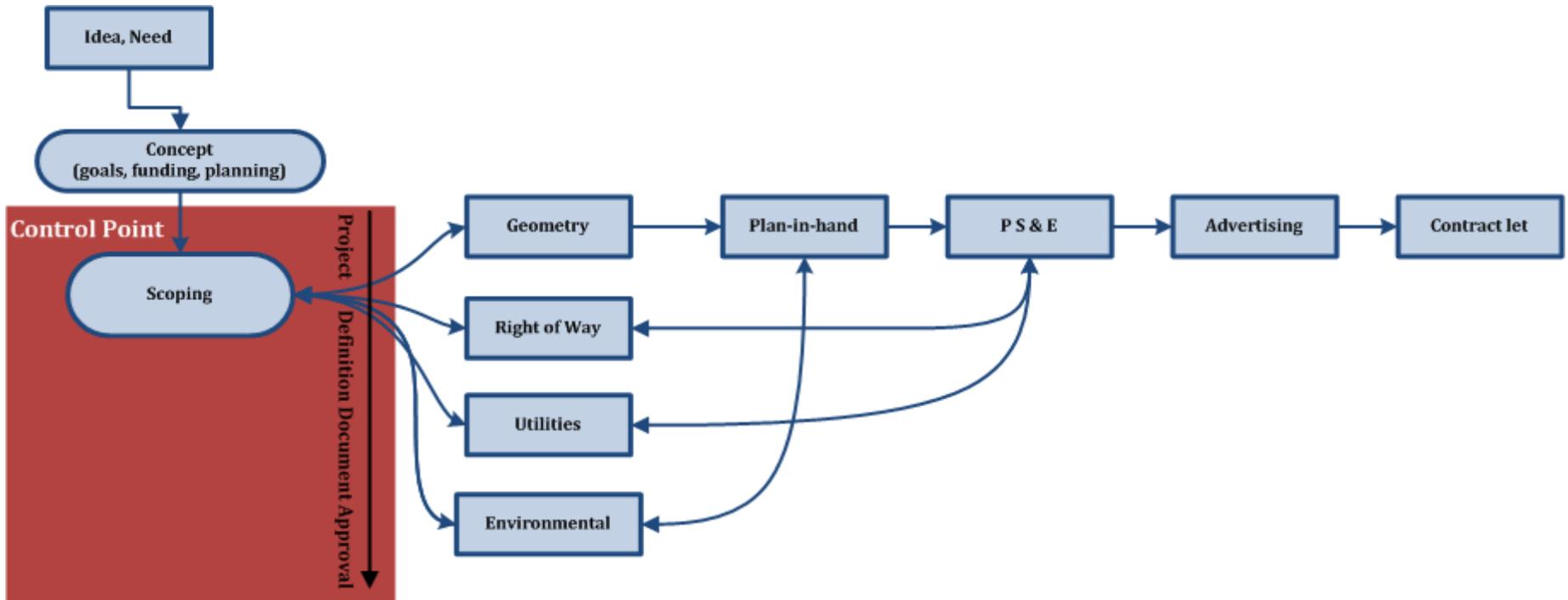
# Core Competencies

## Overall Needs



# Core Competency: SUCCESS Framework Overall Needs

## Pre-construction/Scoping



# Sustainable Funding

## Overall Needs





Interim Transportation Committee

June 18, 2014

Carlos Braceras, P.E., UDOT Executive Director