

# FY 2015 – 2019 Tentative Five-Year Transportation Facilities Construction Program

Scott Omer, Director  
Multimodal Planning Division

# 2015-2019 Tentative Program Discussion

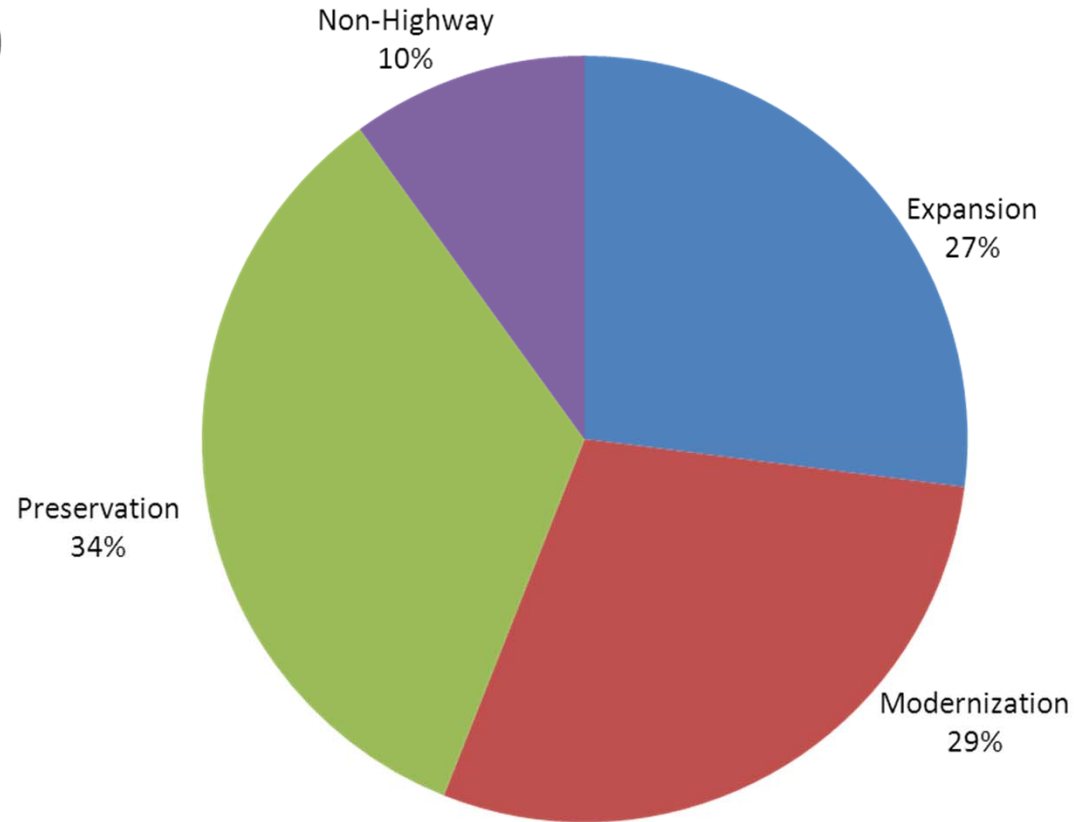
- ▶ Background
- ▶ Overview of Asset Condition
- ▶ STB; Tentative 5-Year Highway Delivery Program
- ▶ ADOT; 6-10 Year Highway Development Program
- ▶ PAG; Tentative Program
- ▶ MAG; Tentative Program
- ▶ STB; Airport Program
- ▶ Next Steps

# Background

- ▶ Developed collaboratively with STB, ADOT (ITD, FMS, MPD) and Regional Partners
- ▶ Demonstrates how federal and state dollars will be obligated over the next five years, and planned over the following 5 Years.
- ▶ Approved annually
- ▶ Fiscal year starts each July 1
- ▶ Must be fiscally constrained – STB Five Year Program
- ▶ Must be financially constrained – ADOT, Development Program

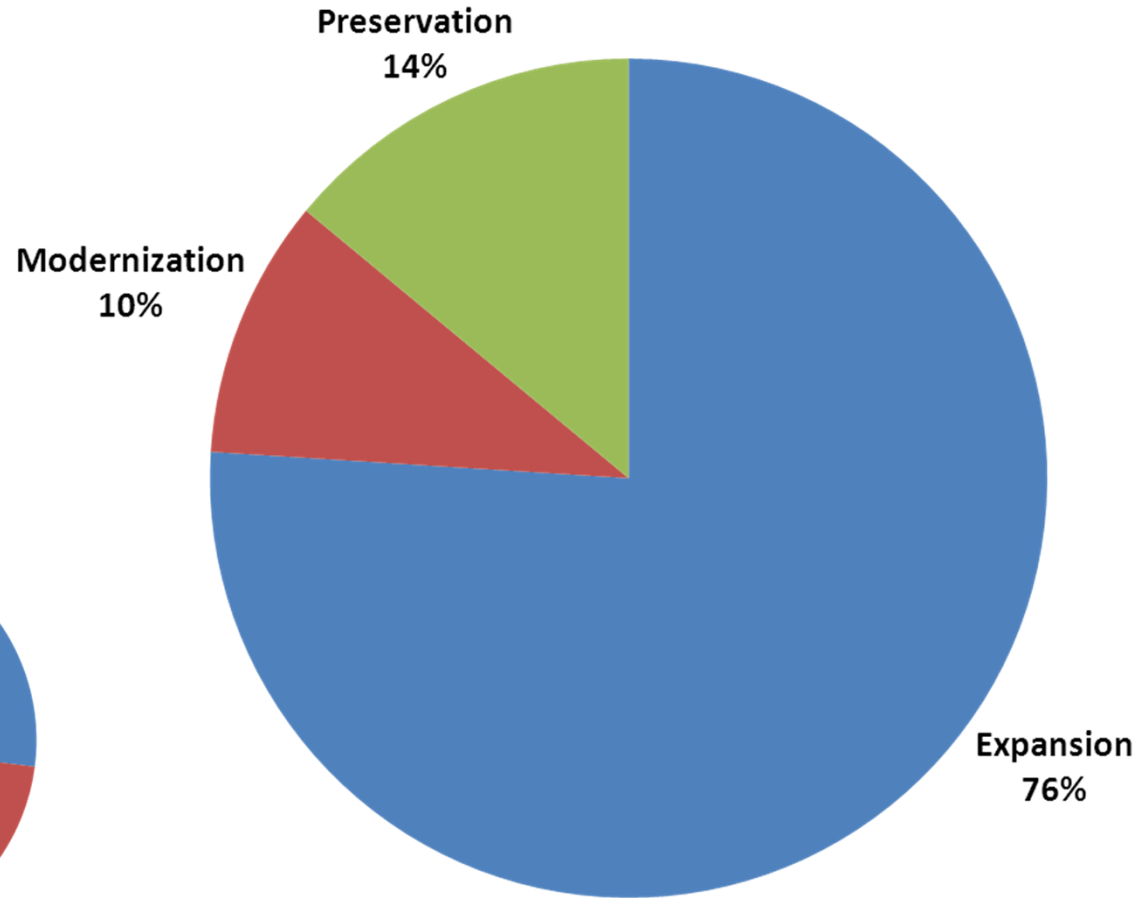
# ADOT's Long Range Plan

## ► Recommended Investment Choice (RIC)

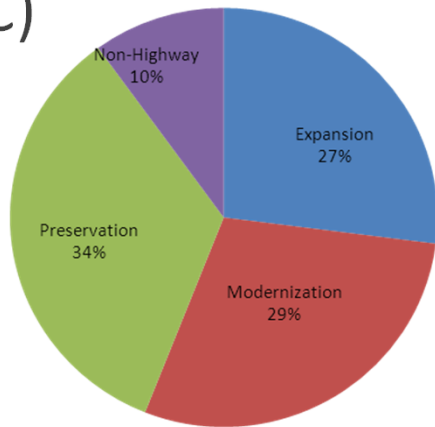


# 2006 – 2013 ADOT Highway Spending

Includes MAG & PAG



(RIC)



# Resource Allocation Advisory Committee (RAAC)

## *FY19 Total Regional Distribution*

Total Funds Available for RAAC Distribution	\$477,484
Subprograms Available for RAAC Distribution	\$270,596

	<u>Major Projects</u>	<u>Subprogram</u>			
MAG	130,397	46,272	17.10%	176,669	37%
PAG	38,071	24,002	8.87%	62,073	13%
Greater Arizona	<u>38,420</u>	<u>200,322</u>	<u>74.03%</u>	<u>238,742</u>	<u>50%</u>
	206,888	270,596	100%	477,484	100%

# Overview of Asset Condition



# \$18.4 Billion = Value of State Highway System Infrastructure

**\$18.4  
BILLION**



Without a commitment to preservation, the system would cost \$100 billion to replace.



# *We have a choice.*



OR



**Spend one dollar now on preservation ...  
or six to fourteen dollars down the road for replacement.**

# Preservation Saves Money!

- ▶ Pay now or pay much more later
- ▶ Public feedback continuously indicates that maintaining the current transportation system in a state of good repair should be of high priority \*
- ▶ MAP-21 specifically addresses system performance:
  - National performance measures are being established
  - State targets will follow
  - States will be expected to meet established targets
- ▶ MAP-21 requires a performance- and risk based approach to transportation planning and programming

\* Identifying Customer-Focused Performance Measures – Arizona TRC Report 655 – October 2010

# Worst First Is a Failed Approach!

Ash Fork Draw Bridge EB #1764 MP 146.15 on I-40 11/6/13  
TCB



# Worst First Is a Failed Approach!



# Worst First Is a Failed Approach!

I-10 Cienega Creek



US-191 Sanders

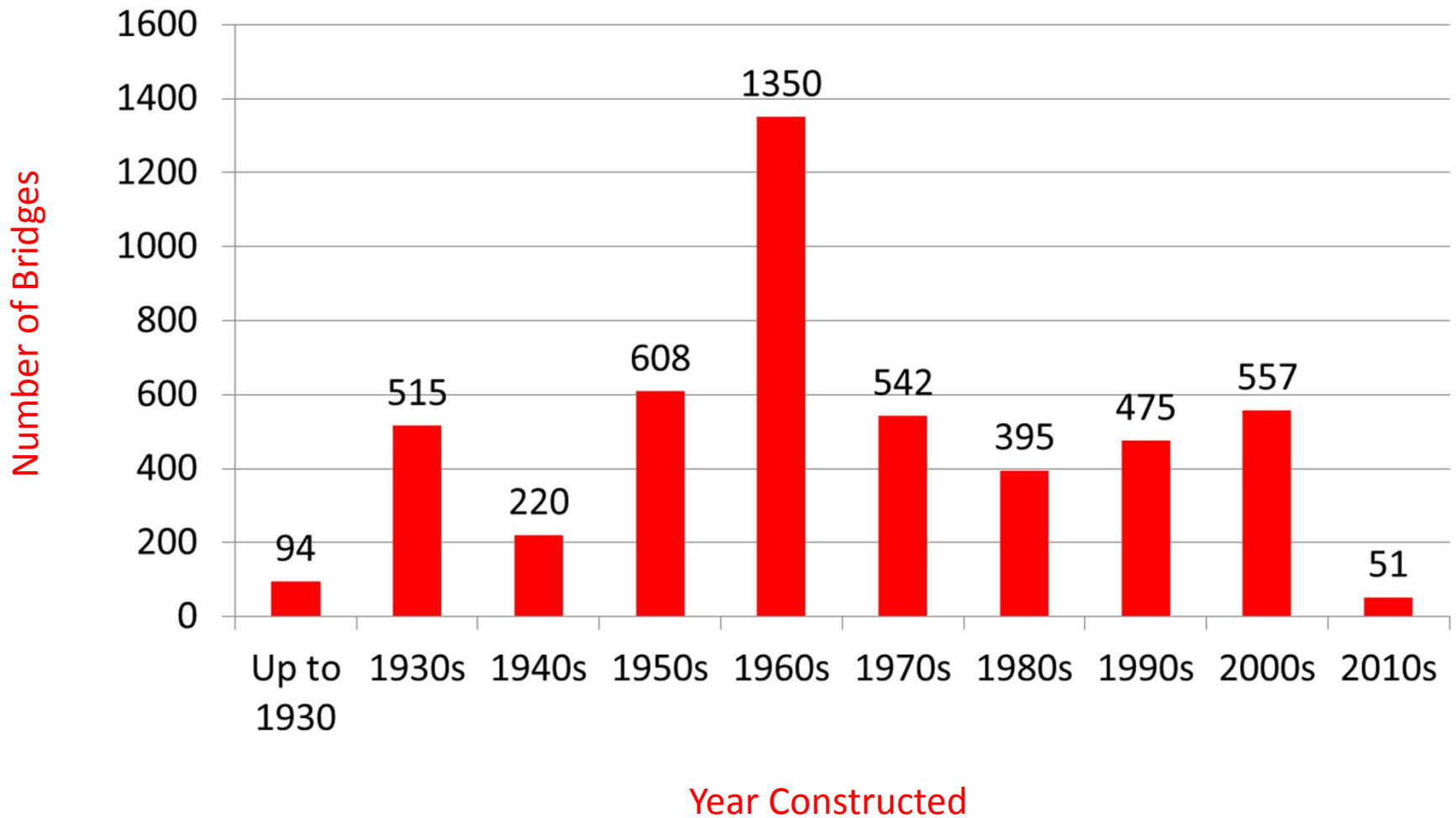


# I-15 Virgin River Bridge # 1

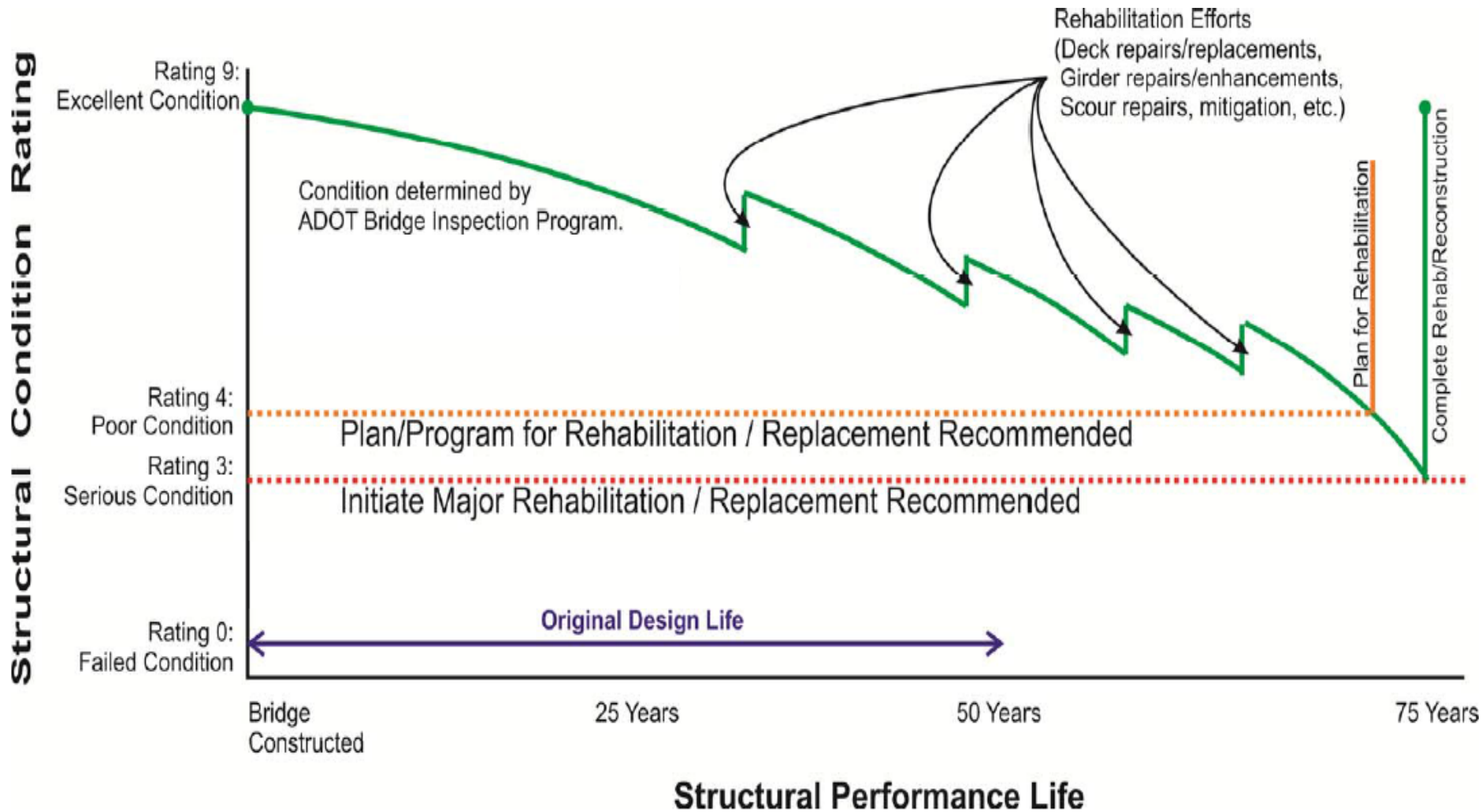
- ▶ In the past two years:
  - In 25 different areas of the steel girders, cracks grew from lengths that range from 1" to 3"
  - Areas of previous crack repairs are starting to develop new cracking
  - A growing number of new cracks developing near the girder web/flange interface that have extended into the base metal of the girder webs have been identified at approximately 12 locations, some as long as 7.5 inches



# Age of Bridges on the State Highway System



# Bridge Life Cycle

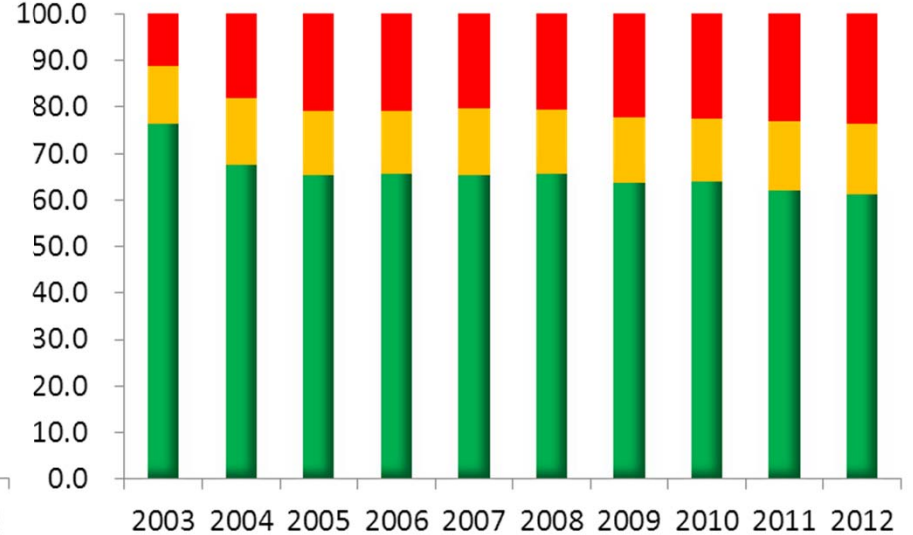
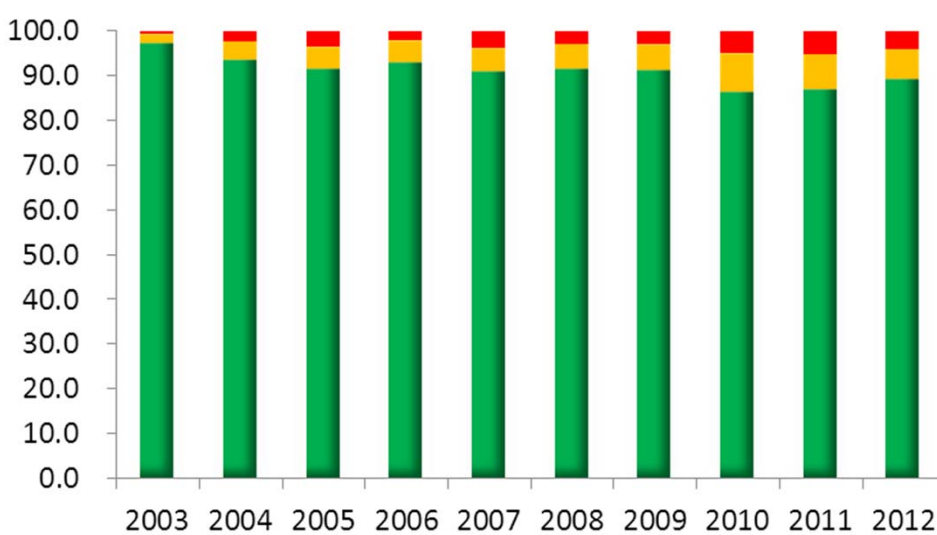




# Losing Ground on Pavement Conditions

Interstate Pavement Condition – ADOT Definition

Non-Interstate Pavement Condition – ADOT Definition



Good



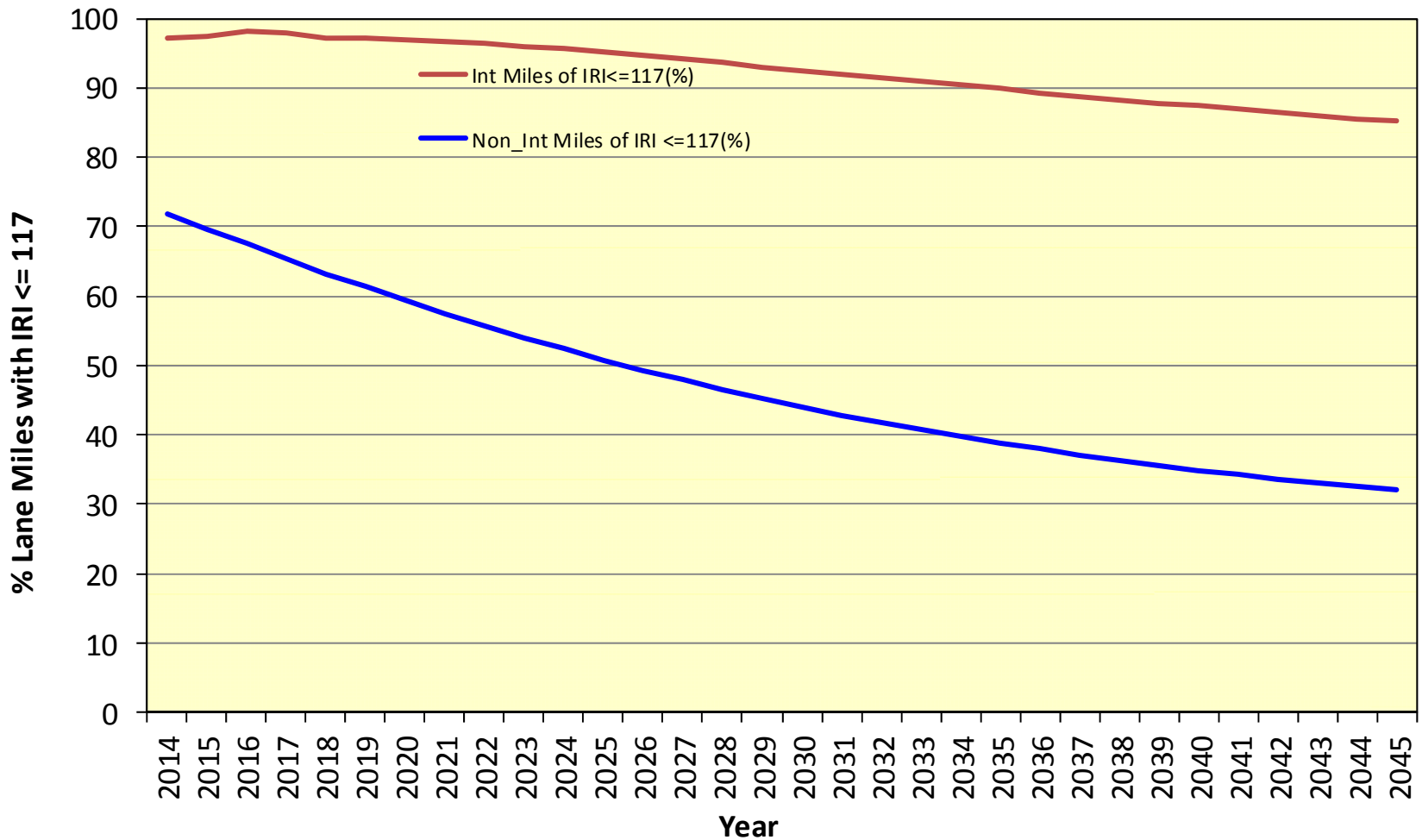
Fair



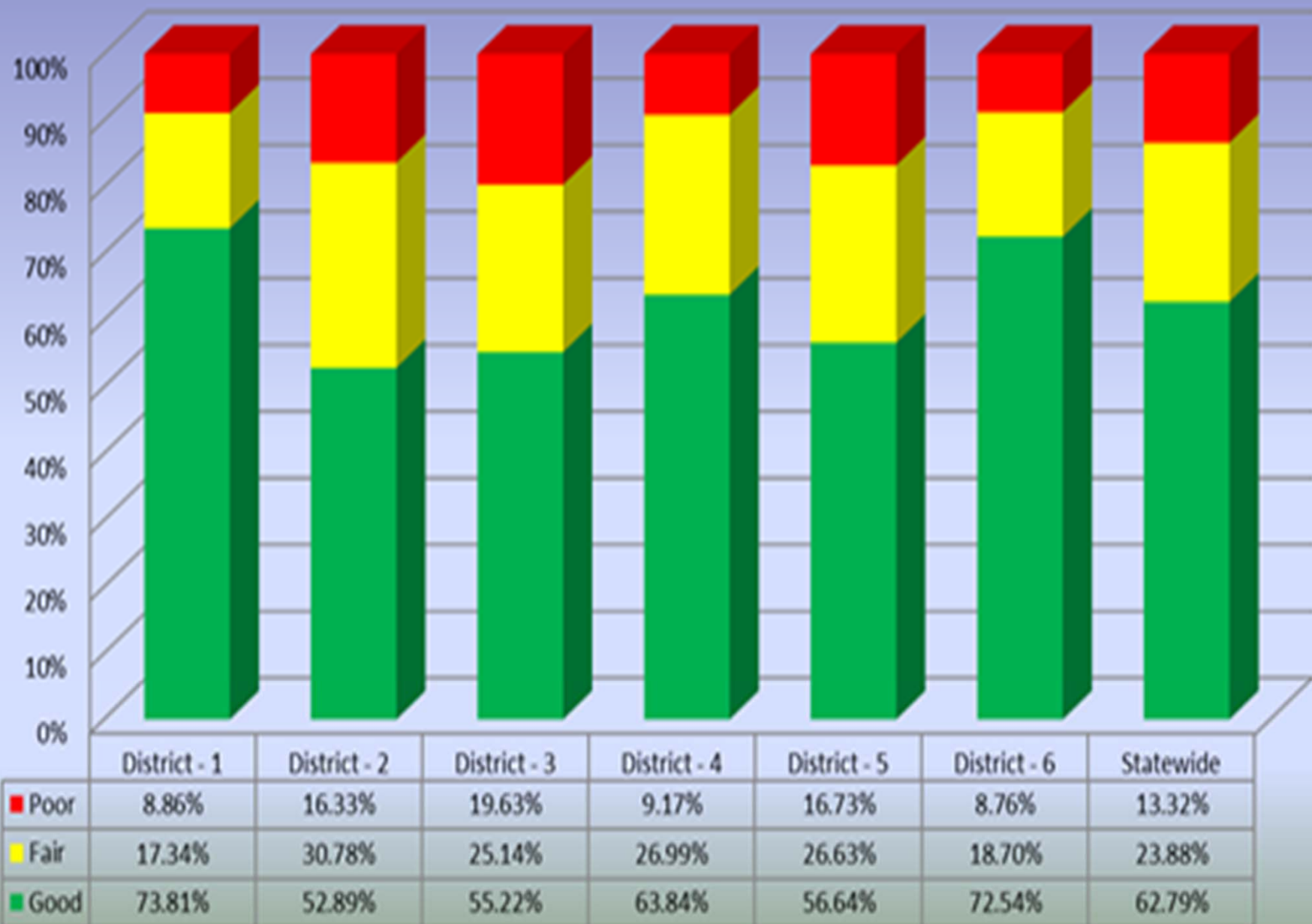
Poor

# Forecasting Pavement Conditions

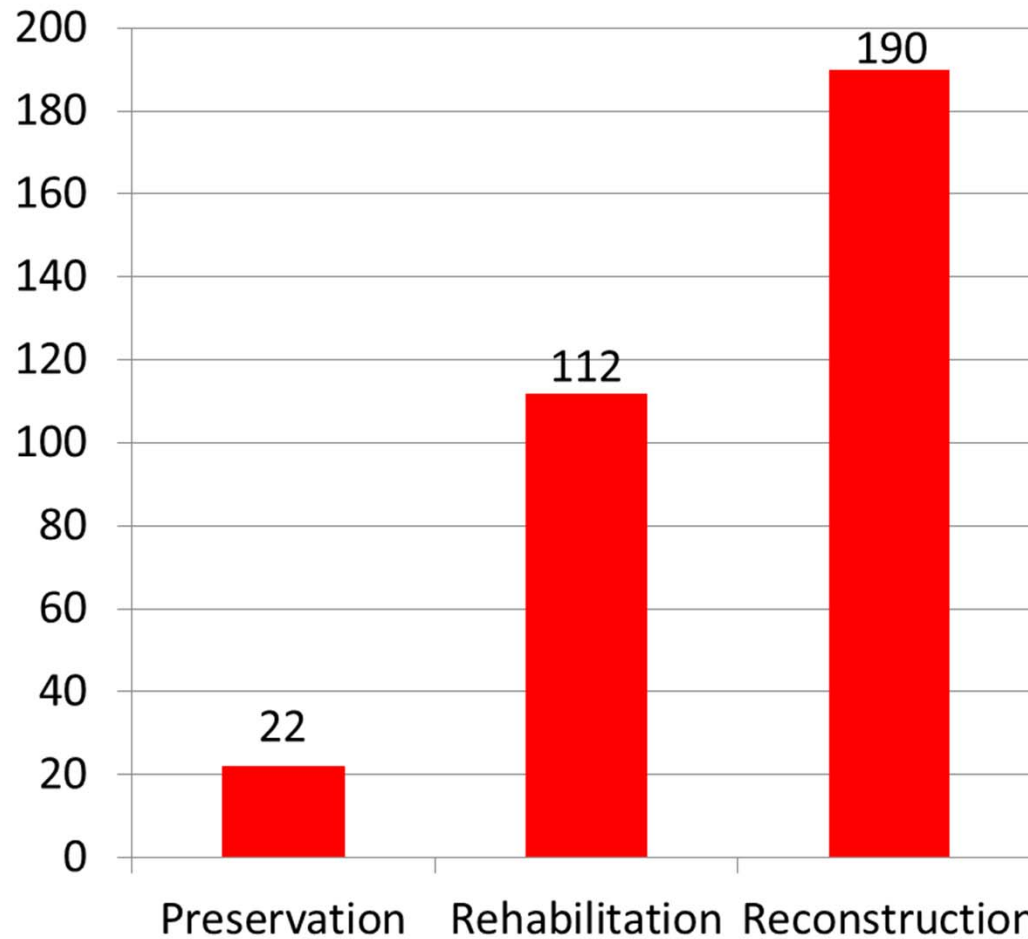
## Assuming Preservation spending remains constant



## Pavement Condition (State System) 2012 by Board District

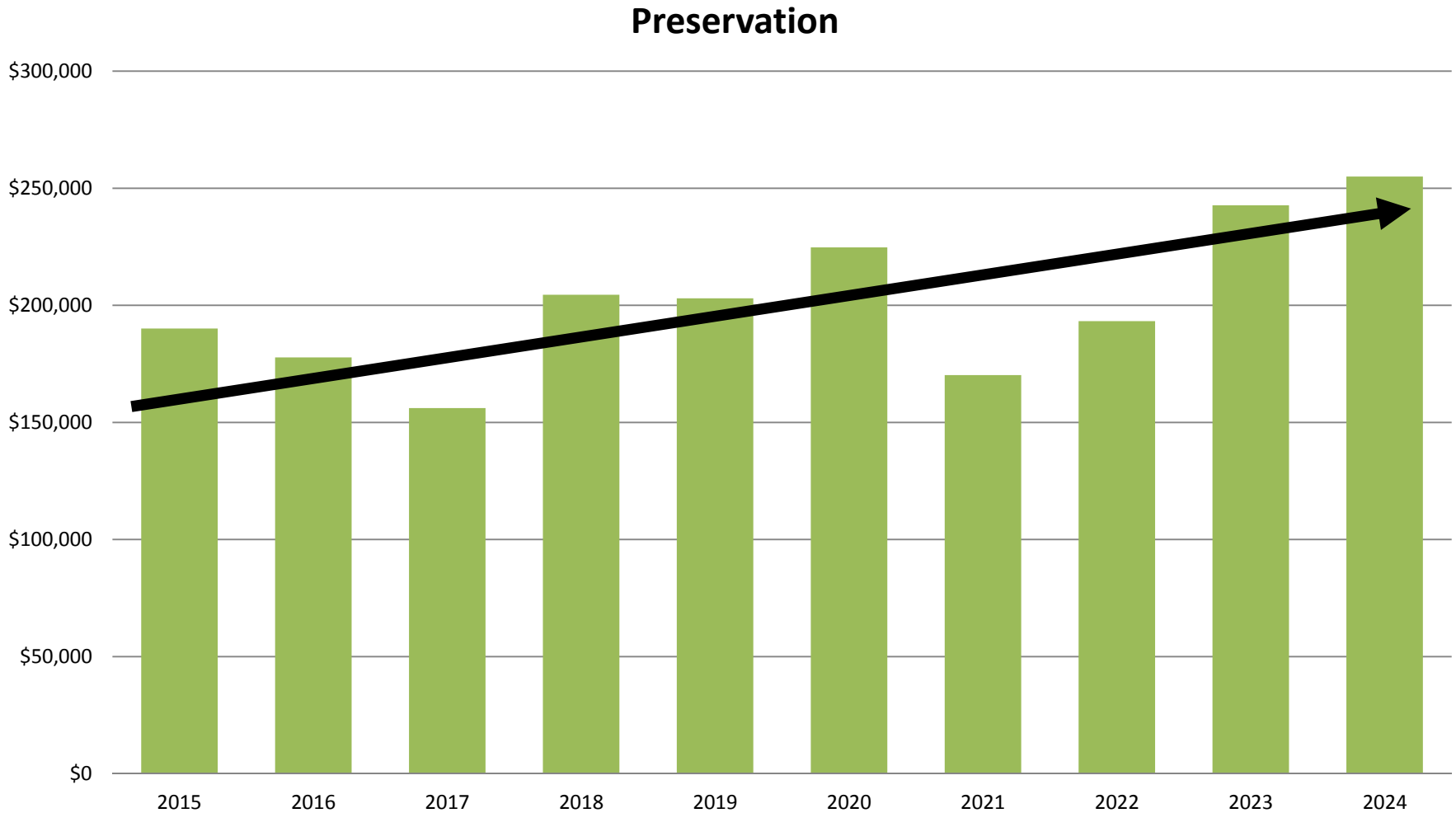


# Preservation Costs vs. Rehabilitation and Reconstruction Costs\*



\* NCHRP Report 742 – published in 2012

# Preservation funding proposed FY15-FY24



# Preserving Pavements at Optimal Intervals

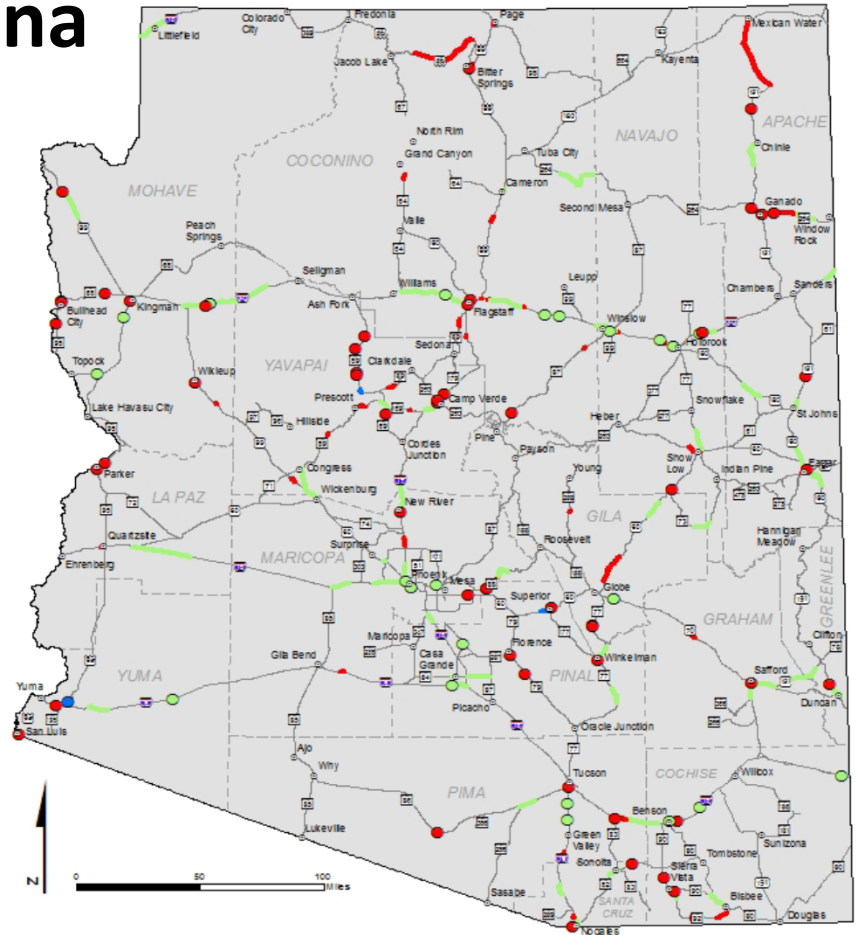
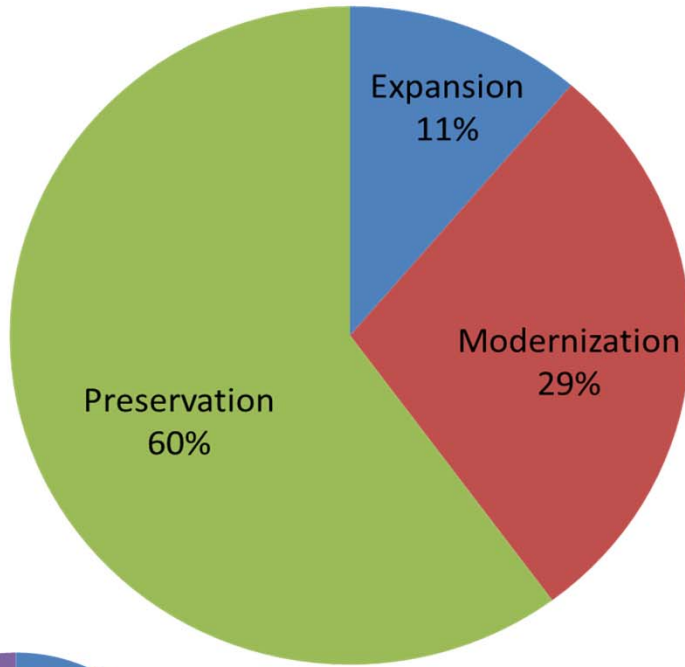
- ▶ It costs 12 times less to maintain a pavement that is in a state of good repair compared to a pavement that is at the end of its service life\*
- ▶ If pavement preservation funding is not increased over the near future, decisions will have to be made regarding which highways will be allowed to deteriorate to a point where the only alternative is reconstruction

\* California Statewide Local Streets and Roads Needs Assessment – January 2013

# Tentative 5-Year Highway Delivery Program

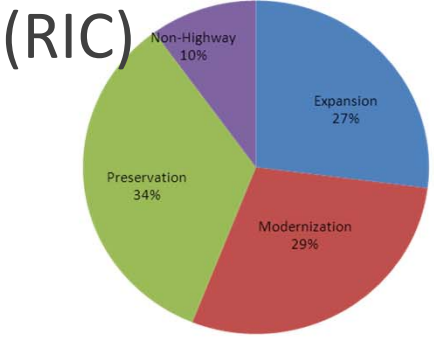


# Tentative 5-Year Highway Delivery Program (FY15- FY19); Greater Arizona



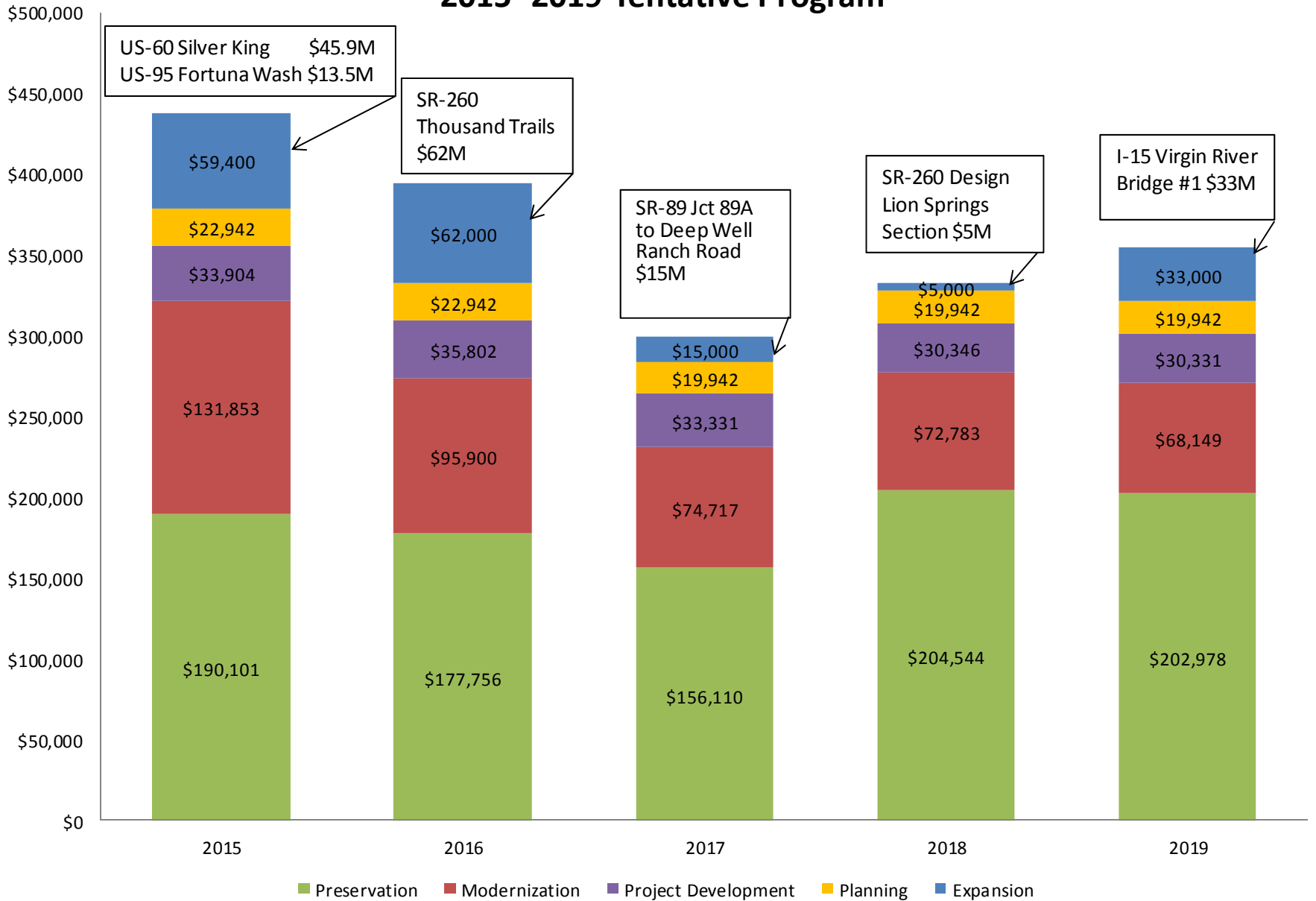
- Point Projects**
  - Expansion
  - Modernization
  - Preservation
- Linear Projects**
  - Expansion
  - Modernization
  - Preservation
- Cities and Towns
- State Highway System
- County Boundary
- State Boundary

Notes:  
The State of Arizona makes no claims concerning the accuracy of this map nor assumes any liability resulting from the use of the information herein.  
Prepared by:  
Arizona Department of Transportation  
Multimodal Planning Division  
Transportation Analysis GIS Section  
(602) 712-7333 January 31, 2014



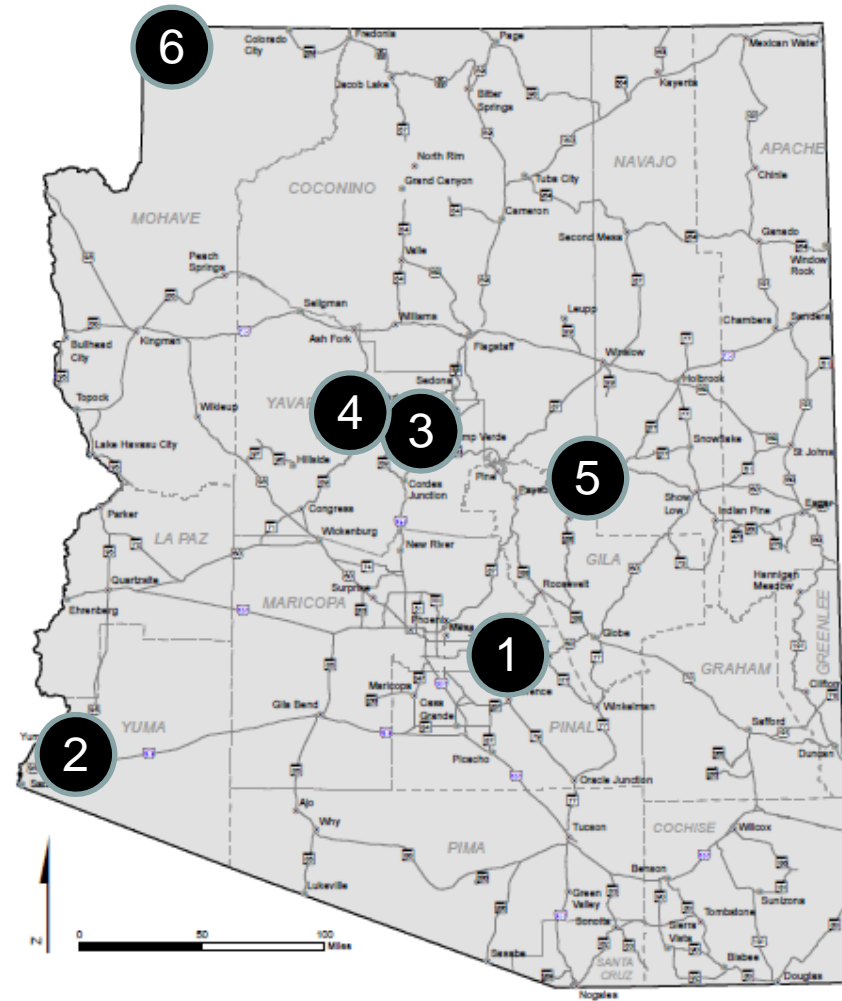


# 2015 -2019 Tentative Program



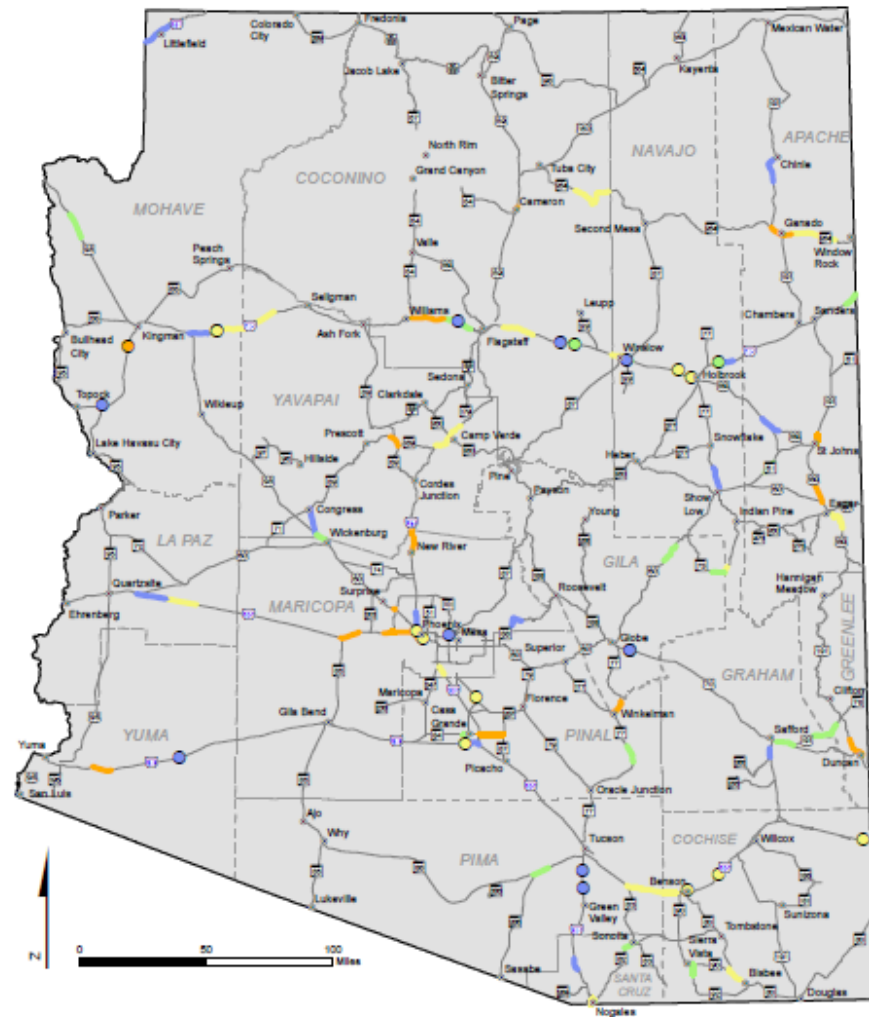
# Expansion Program (FY15- FY19); Greater Arizona

RT	LOCATION	Type Of Work	CFY	COST(\$000)
1 60	SILVER KING SECTION & SUPERIOR STREETS	Reconstruct to 4 lane roadway with center turn lane	2015	\$45,000
2 95	FORTUNA WASH BRIDGE	Construct New Bridge	2015	\$13,500
3 260	THOUSAND TRAILS TO I-17	Construct Improvements	2016	\$62,000
4 89	JCT SR 89A TO DEEP WELL RANCH ROAD	Widen corridor to improve capacity, operations and safety	2017	\$15,000
5 260	LION SPRINGS SECTION	PE, PH 2	2018	\$5,000
6 15	I-15 Bridge Number 1	Bridge Replacement and Roadway improvements	2019	\$33,000



# Preservation Program (FY15- FY19)

RT	LOCATION	Type Of Work	CFY	COST(\$000)
40	WILLOW TI - MARKHAM WASH	Pavement Preservation	2015	\$18,000
89	HELL CANYON BRIDGE, STR #843	Bridge Replacement	2015	\$17,000
40	Walnut Canyon - Twin Arrows	Pavement Preservation	2015	\$13,200
40	COUNTY LINE- MINNETONKA	Pavement Preservation	2015	\$12,200
10	MP 42 TO HOVATTER RD	Pavement Preservation	2015	\$12,000
17	JCT SR 169 TO MIDDLE VERDE TI	Pavement Preservation	2015	\$11,500
15	NEVADA STATE LINE - MP 13	Pavement Preservation	2016	\$13,500
10	US 60 to MP 42	Pavement Preservation	2016	\$13,500
8	BIANCO RD - JCT I-10	Pavement Preservation	2016	\$10,000
60	Pinto Creek	Bridge Replacement	2017	\$17,000
40	GARLAND PRAIRE - PARKS TI	Pavement Preservation	2017	\$13,000
264	BURNSIDE - FISH WASH	Pavement Preservation	2017	\$10,800
40	PARKS TI - RIORDAN BRIDGE	Pavement Preservation	2018	\$13,700
93	MP 17.5 - White Hills Road	Pavement Preservation	2018	\$9,800

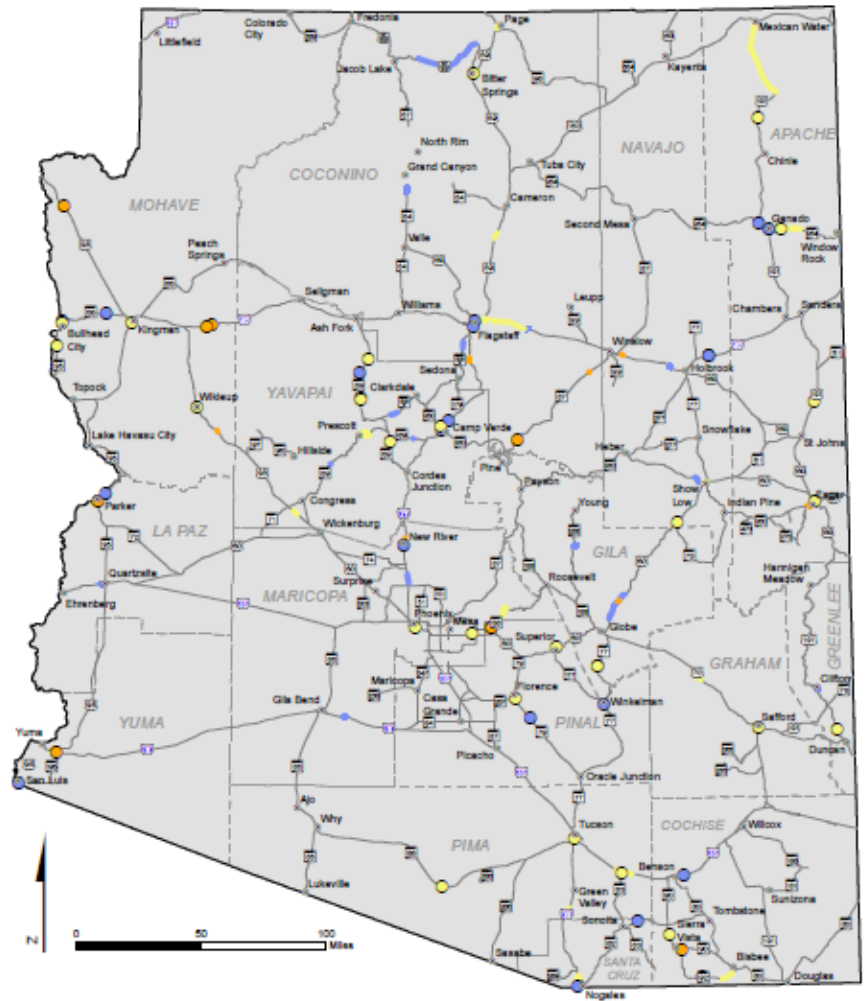


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Transportation Analysis GIS Section  
(602) 712-7333 February 3, 2014

# Modernization Program (FY15- FY19)

RT	LOCATION	Type Of Work	CFY	COST(\$000)
89	MP 526 - MP 527 SOUTH OF PAGE	Reconstruct Roadway	2015	\$25,000
93	MP 185.3 TO MP 191	Construct Safety Improvements	2015	\$25,000
264	FISH WASH - CROSS CANYON	Shoulder Widening	2015	\$10,500
70	BYLAS AREA	Construct Intersection Improvements	2015	\$5,613
60	OAK FLAT - MIAMI	Construct passing/climbing lane	2016	\$13,000
93	WIILOW BEACH TO WHITE ROAD	Construction Safety Improvements	2017	\$7,500
8	ARABY ROAD TI RECONSTRUCTION	Construct Roundabouts	2017	\$7,264



- Point Projects**
- 2015
- 2016
- 2017
- Linear Projects**
- 2015
- 2016
- 2017
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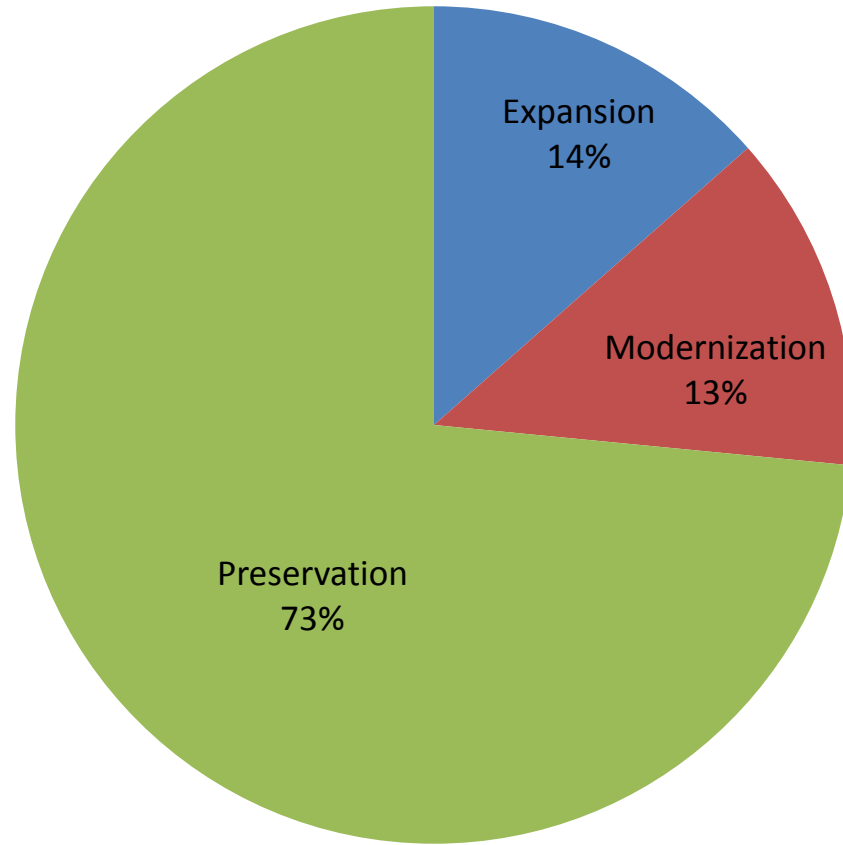
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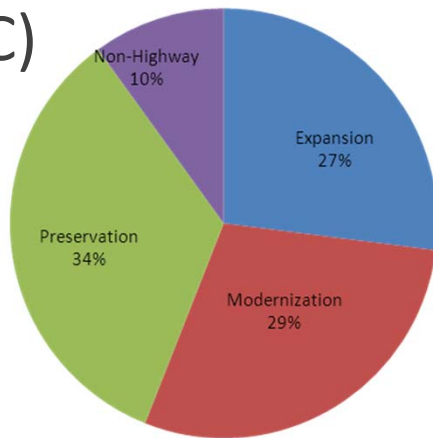
# Summary of the Tentative Program FY15-19

- ▶ Updated Project Costs
- ▶ Increases Preservation Spending by 3% over FY14-18 Program
- ▶ Added US89 Slide Repair Project to FY15 \$25M
  - Deferred 2 Pavement Preservation and 1 Bridge Rehabilitation Project
- ▶ Includes delivery of the Transportation Enhancements Program at \$28.8M in 2015-2018

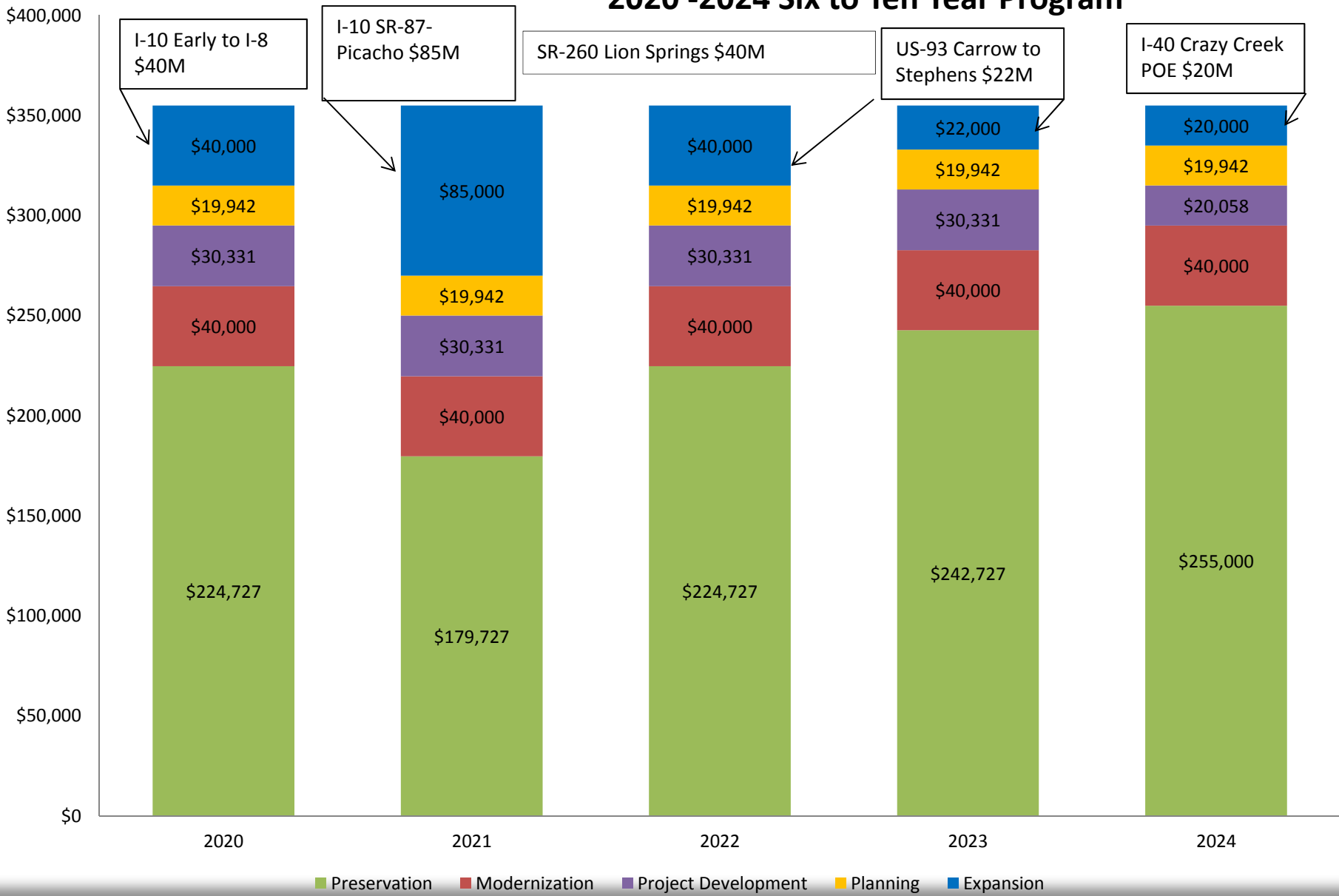
# Year 6-10 (FY20 – FY24); Greater Arizona



(RIC)



# 2020 -2024 Six to Ten Year Program

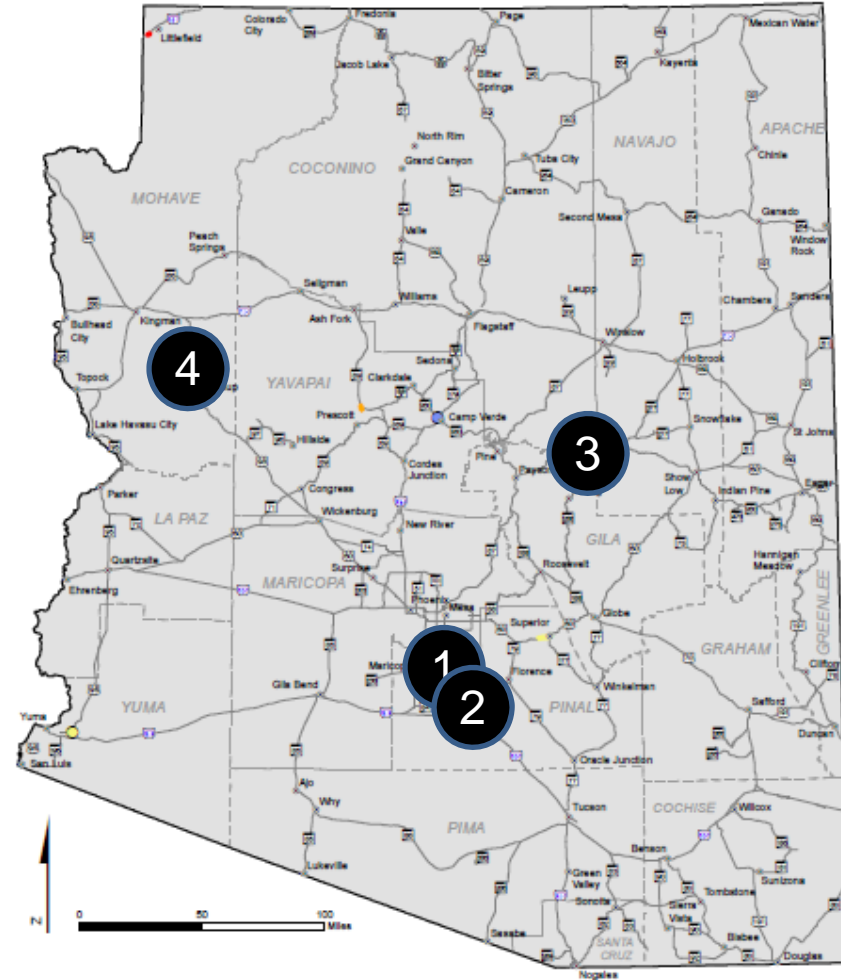


# Development Program (FY20- FY24)

## Expansion Projects

### P2P Ranking of Unfunded Projects \* (Greater Arizona Only)

- 1** 2020  
I-10; Early to I-8 \$40 M
- 2** 2021  
I-10; SR-87 to Picacho \$85 M
- 3** 2022  
SR-260; Lion Springs \$40 M
- 4** 2023  
US-93; Carrow to Stephens \$22 M
- 2024  
I-40; Crazy Creek POE \$20 M



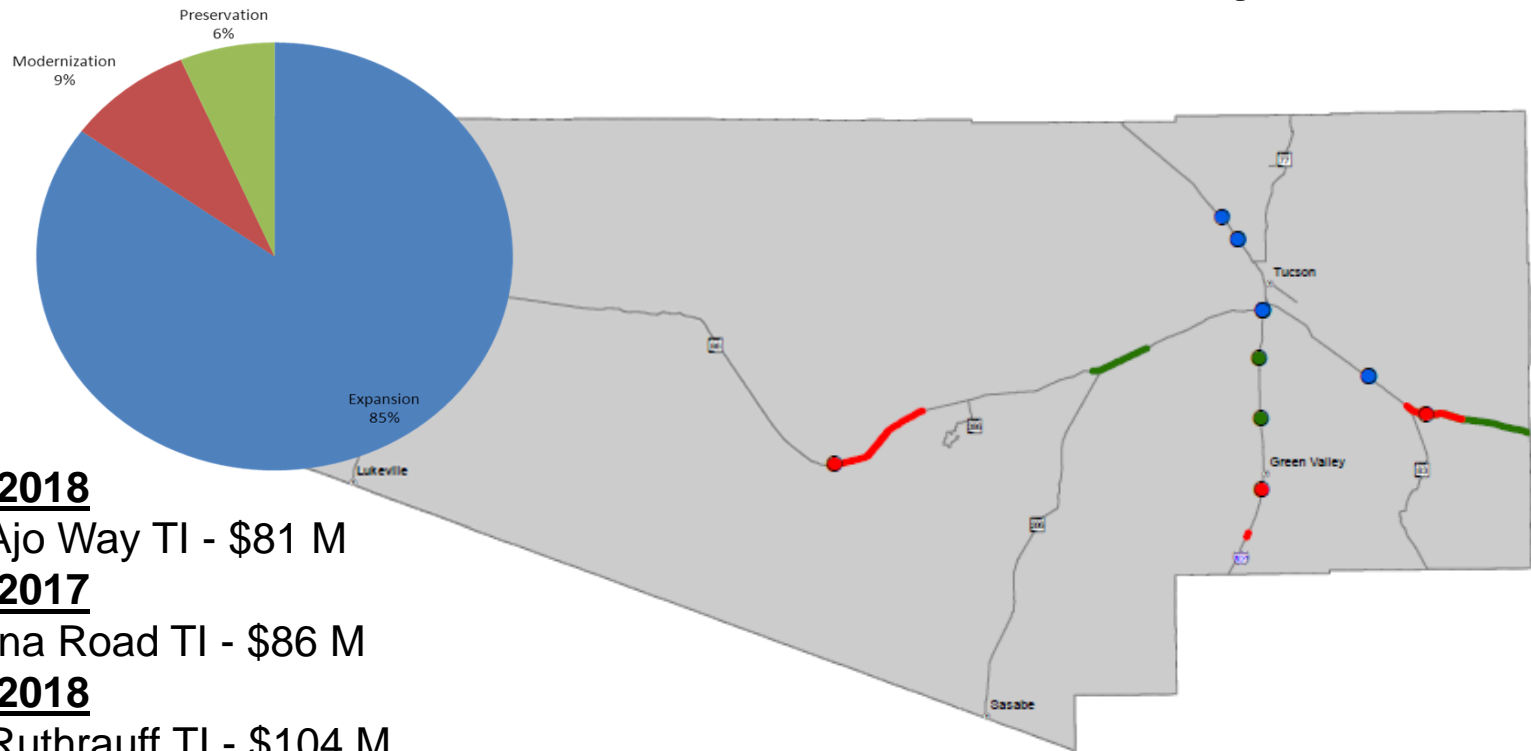
\* Port of Entry, Rest Areas, and Privately Funded projects were not included in the project ranking



# PAG; Tentative Program (FY15-19)



# PAG Tentative Program(FY15- FY19)



## 2015 / 2018

I-19; Ajo Way TI - \$81 M

## 2016 / 2017

I-10; Ina Road TI - \$86 M

## 2017 / 2018

I-10; Ruthrauff TI - \$104 M

## 2016 / 2019

I-10; Houghton Road TI - \$35 M

## 2019

I-19; Irvington Road TI - \$4 M (Design Only)

- |                       |                        |                        |
|-----------------------|------------------------|------------------------|
| <b>Point Projects</b> | <b>Linear Projects</b> | • Cities and Towns     |
| • Expansion           | — Modernization        | — State Highway System |
| • Modernization       | — Preservation         | □ County Boundary      |
| • Preservation        |                        | ■ PAG Boundary         |



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(802) 712-7333 February 3, 2014

# MAG Area Regional Transportation Plan Freeway Program



# MAG Area Freeway Program (FY15- FY19)

## 2015-2018

SR 202L; South Mountain - \$1,390 M

## 2015

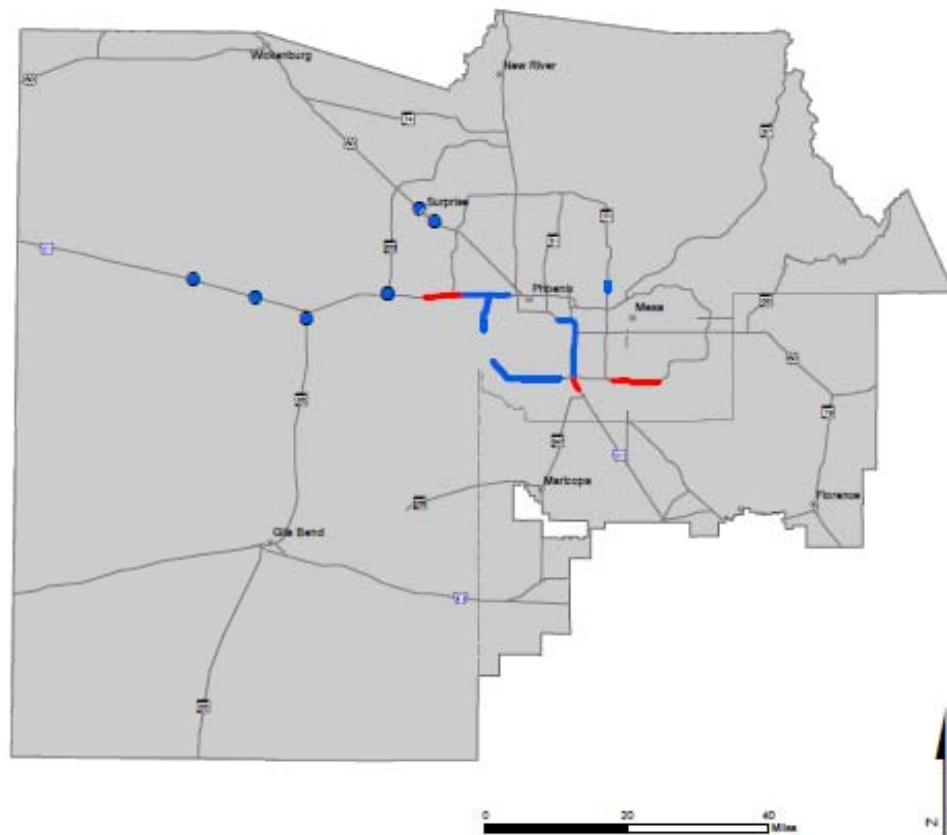
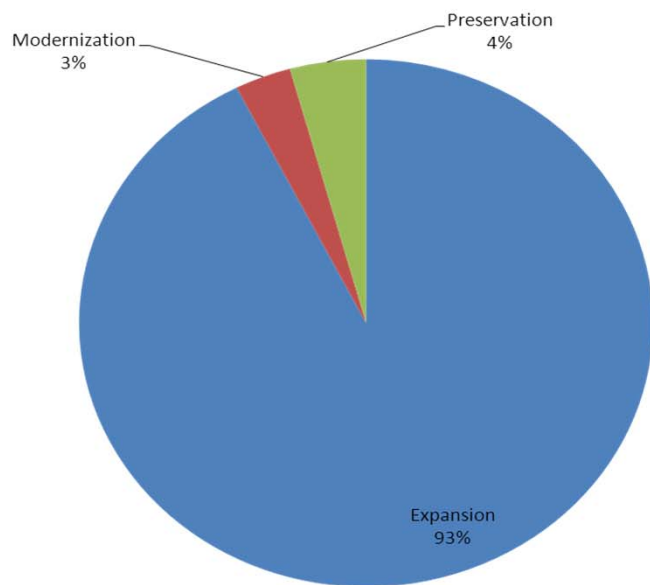
US60; Bell Road TI - \$33 M

## 2015/2016

SR 303L; I-10 Interchange- \$69 M

## 2017/2019

I-10; 32<sup>nd</sup> St to SR 202L- \$197 M



### Point Projects

- Expansion
- Modernization

### Linear Projects

- Expansion
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# ADOT Aviation Program

**ADOT**

2015-2019 Tentative

Five-Year Transportation Facilities Construction Program

Airport Capital Improvement Program



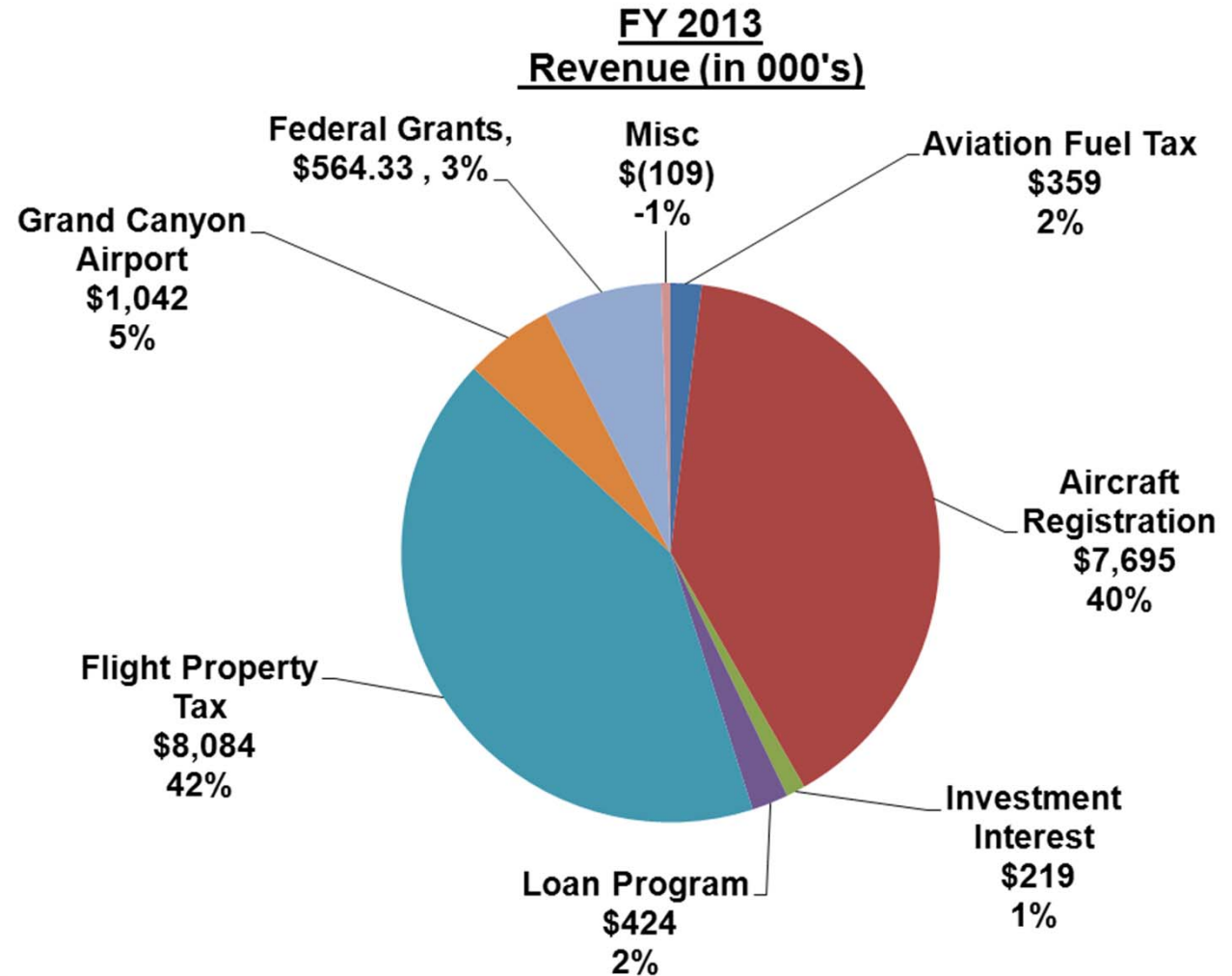
Lake Havasu City 2014 Arizona Airport of the Year

# Arizona Revised Statutes

- Title 28 – Transportation, Chapter 25 - Aviation
  - ARS 28 - 8202 State Aviation Fund
    - “C. The department shall administer monies that are appropriated by the legislature from the state aviation fund.”
    - “D. The board shall distribute monies appropriated to the department from the state aviation fund...The board shall distribute these monies according to the needs for these facilities as determined by the board.”

# Arizona State Aviation Fund

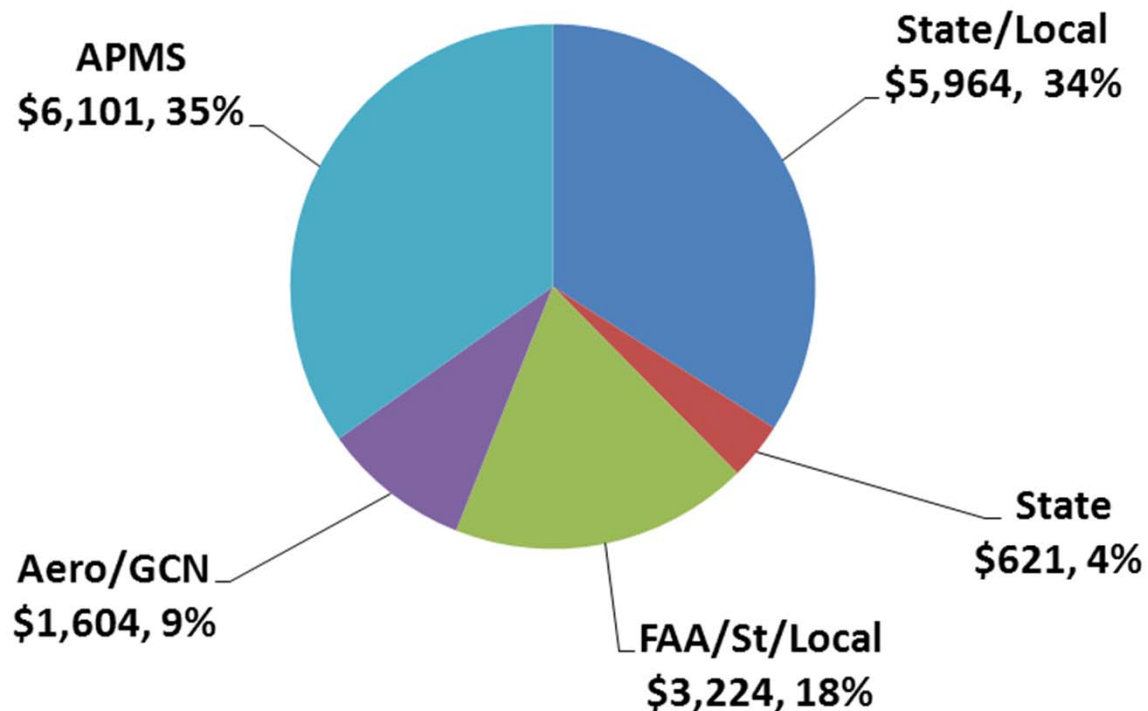
Revenue for FY 2013 - \$19,079,604



# Arizona State Aviation Fund

Expenditures for FY 2013 - \$17,513,000

ADOT - MPD - Aeronautics  
State Aviation Fund Expenditures - \$17,513,000  
FY 2013 by Program (in 000's)





# Airport Capital Improvement Program (ACIP)

## Five-Year Development Program - Fiscal Year 2015

# Next Steps

- ▶ Public Meetings
  - March 14 Phoenix
  - April 11 Marana
  - May 9 Flagstaff
- ▶ Present Final Program to STB; June 13<sup>th</sup> for approval
- ▶ Program must be signed by Governor by June 30<sup>th</sup>.
- ▶ FY15 begins July 1<sup>st</sup>, 2014