# FY 2016 – 2020 Draft <u>Tentative</u> Five-Year Transportation Facilities Construction Program

### Scott Omer, Director Multimodal Planning Division



# 2016-2020 Tentative Program Discussion

- Background
- Planning to Programming (P2P)
- 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



# **MAP-21**

- Federal Transportation Reauthorization; enacted October 1, 2012
- Requires a National Highway Performance Program

"It is in the interest of the United States to focus the Federal-aid highway program on the following national goals:"

Safety

Infrastructure Condition

**Congestion Reduction** 

System Reliability

Freight Movement and Economic Vitality

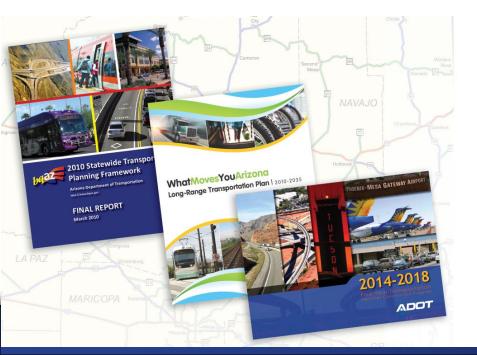
**Environmental Sustainability** 

Planning to Programming Linkages (P2P)
Preparation for MAP-21 Performance Program



# Planning to Programming Linkage (P2P)

### ADOT Vision and Long-Range Plan Prototyping P2P Implementation for Performance Based Programming

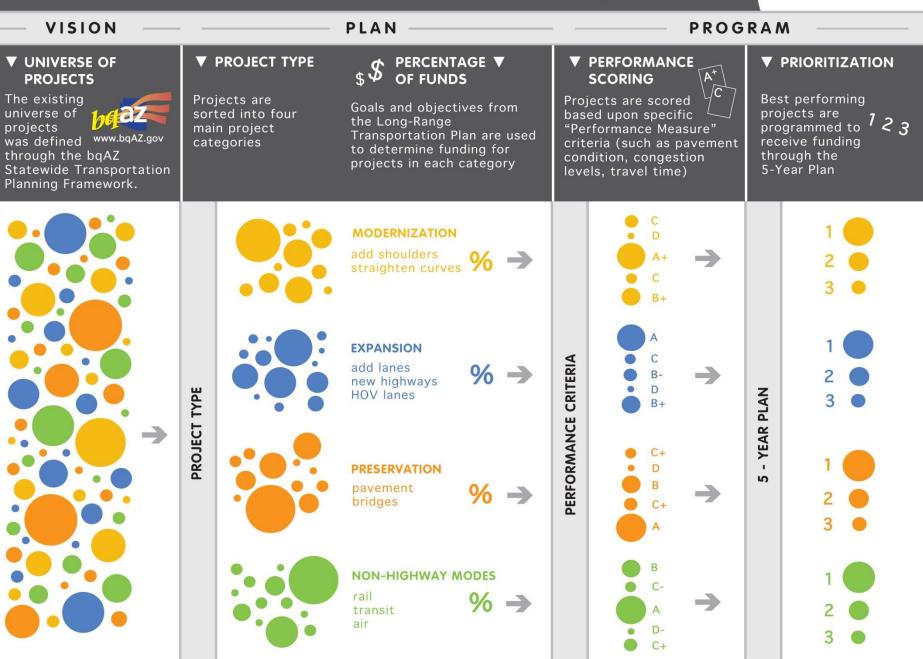




### VISIONING to PROGRAMMING

March 2011

How do transportation projects move from initial visioning stages to programming (funding for construction)?



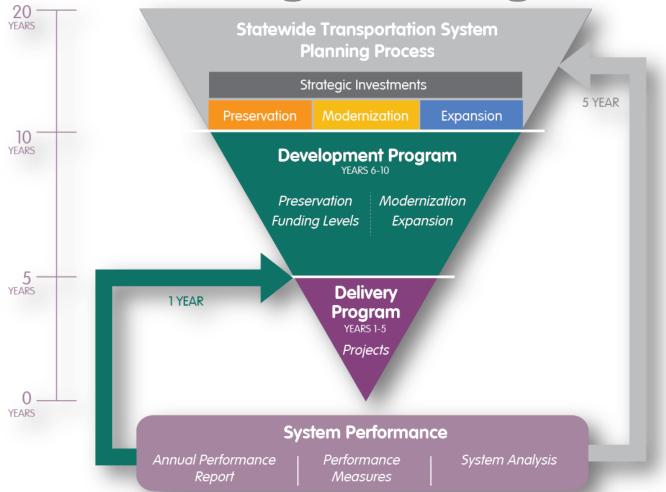
# P2P Link Goal

# To create a performance-based process that links planning to programming *transparent, defensible, logical,*

# reproducible



# Linking Planning to Programming





### **Overview of Asset Condition**





### \$19.7 Billion = Value of State Highway System Infrastructure



Without a commitment to preservation, the system would cost \$200 billion to replace.

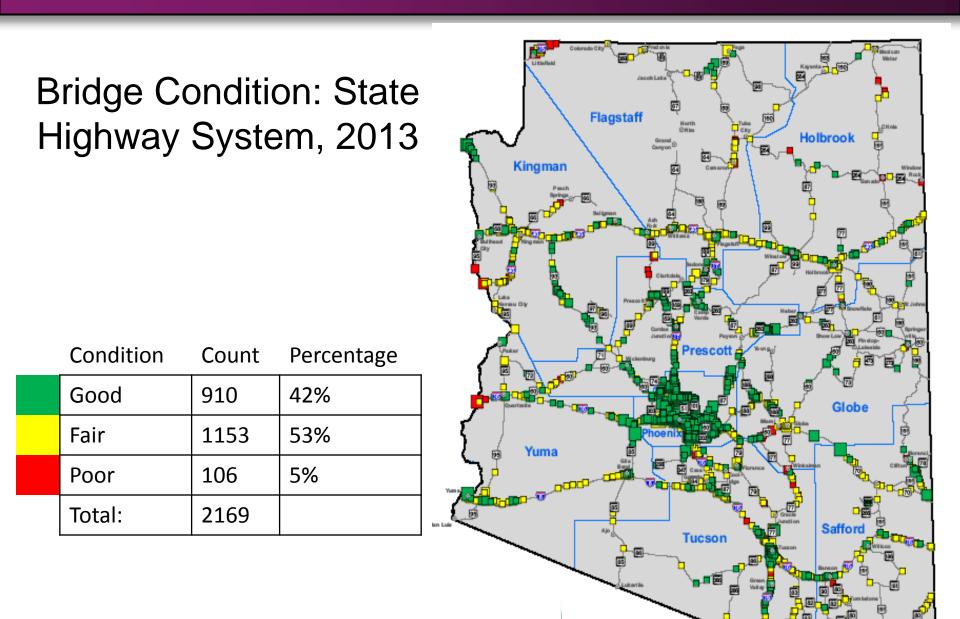


### **Preservation Saves Money!**

- 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 – ATRC Report 655 – October 2010





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**ADOT - Bridge Group** 



### Ideal Wash On SR-186 Near Willcox



# **SR-77 Dripping Springs Wash Bridge**

Before



ADOT



After

# **SR-87 Limestone Wash Bridge**

Before

After







### **I-15 Implementation Plan**

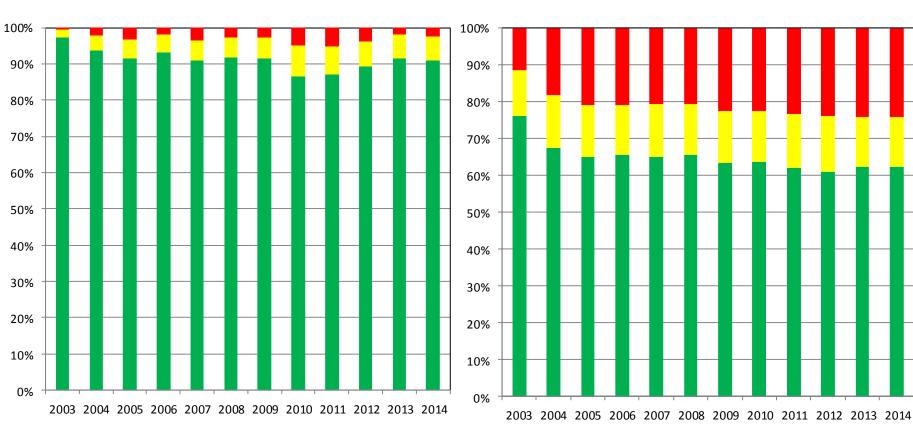
I-15 Recommended Program 2019 - 2063											Maintain Bridge Costs ONLY (i.e. No Refurb. / Improvements)							
Construct. Year	2019	2020	2022	2025	2030	2035	2040	2043	2048	2053	2058	2063	Cumulative Bridge Cost 50-Years	Residual Bridge Value 2063	Bridge	Cumulative Bridge Cost 50-Years	Residual Bridge Value 2063	
Bridge 1	20,548					733			1,143	241			23,398	27,563	Bridge 1	32,557	1,537	With only maintenance
PROGRAM	35,450																	provided, the bridges will
Bridge 2			4,122		97	34,661			1,165			1,815	42,521	43,000	Bridge 2	24,769	14,753	not have the structural deficiencies addressed,
PROGRAM			8,900			40,000												and are therefore still at
Bridge 3		7,861				16,722			1,185			1,846	27,614	19,218	Bridge 3	20,365	1,409	risk to closure/ failure,
PROGRAM						19,650												with virtually no residual
Bridge 4	378	42			3,733		18,321			809			23,283	24,330	Bridge 4	15,152	9,878	value after spending
PROGRAM							24,450											nearly \$140 Million to maintain them.
Bridge 5a	423				13,018			600			934	416	15,391	18,184	Bridge 5a	10,178	8	maintain incm.
PROGRAM					18,275													By comparison, an
Bridge 5b	466				12,845			582			907	644	15,444	17,607	Bridge 5b	11,497	2,113	increased investment of
PROGRAM					18,275													20% spread over the next
Bridge 7		15,859					687			1,070	371		17,987	22,501	Bridge 7	23,426	1,710	40 years will result in widened bridge
PROGRAM		26,650																superstructures that will
Paving				3,225		36,825			3,225		36,825	Totals:	165,638	172,403		137,944	31,408	provide value for at least
PROGRAM				3,225		36,825							T	$\square$		$\neg$	$\sim$	60 years into the future.
Climb Lane				13,450										A 20% incr	ease in Program Co	net		
PROGRAM				13,450										A 20/6 IIIG	ease in Flogram of	/31		
Program	35,450	26,650	8,900	16,675	36,550	96,475	24,450		•	•		245,150	Recommen	ded Program	Yields	60 Years o	of added bri	dge life.

All costs are shown in \$1,000 increments (i.e. 466 is equal to \$466,000)

## **Losing Ground on Pavement Conditions**

#### **Interstate Pavement Condition – ADOT Definition**

#### **Non-Interstate Pavement Condition – ADOT Definition**

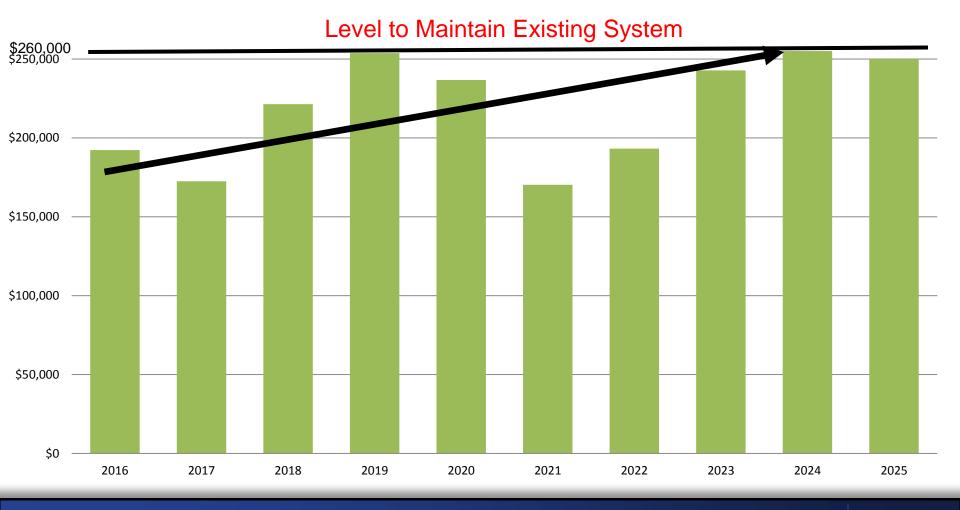




# Preservation funding proposed FY16-FY25

Preservation

\$300,000



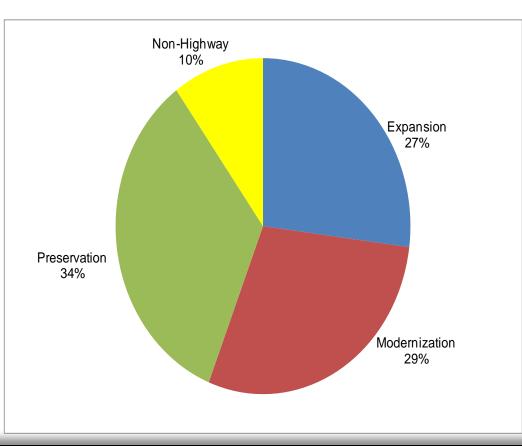
### **Tentative 5-Year Highway Delivery Program**



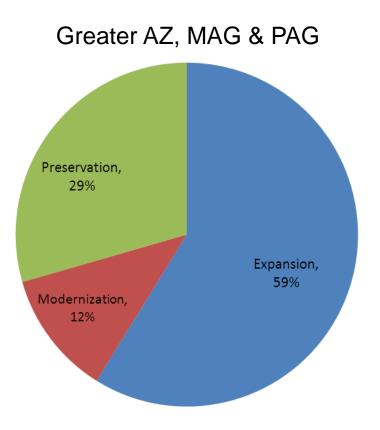


### **ADOT's Long Range Plan**

Recommended Investment
Choice (RIC)

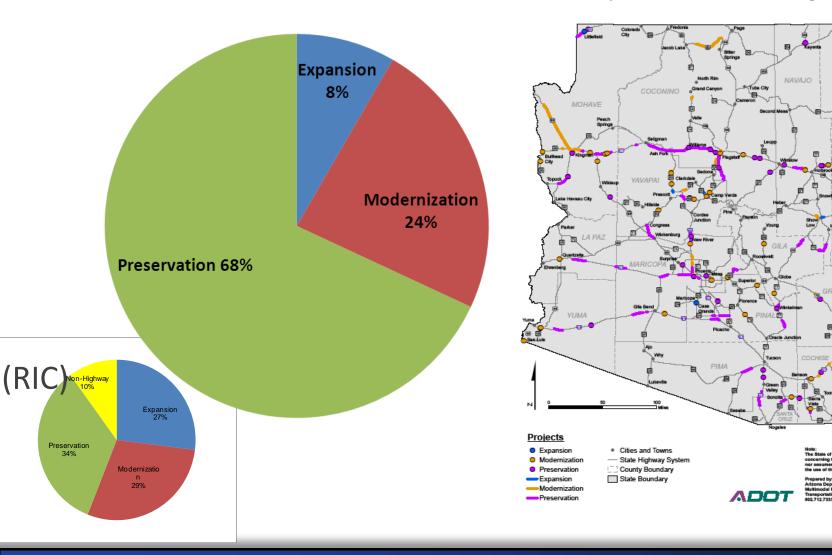


### 2016-2020 Tentative Facilities Construction Program





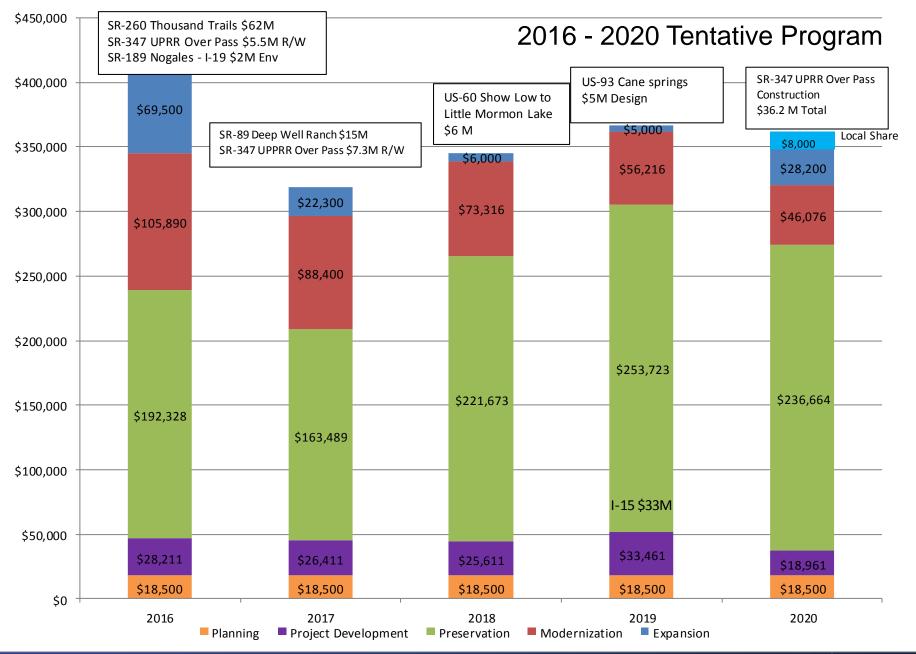
#### **Greater Arizona Tentative 5-Year Highway Delivery** Program(FY16-FY20) Tentative 2016-2020 Five-Year Transportation Facilities Construction Program



ADOT



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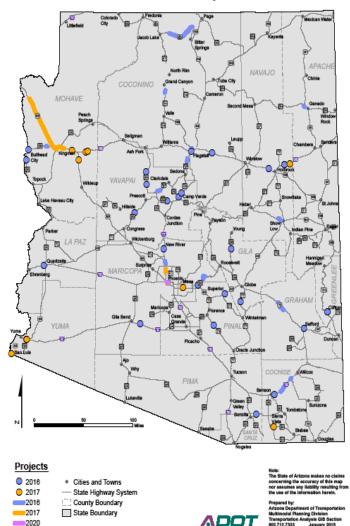
### Preservation Program (FY16-FY20)

	_				Tentative 2016-2020 Five-Year			
RT LOCATION	D	TypeOfWork	CFY	COST(\$000)	Transportation Facilities Construction Program Preservation Projects			
		Pavement		•	Colorado Predorita Page El Milestan Visite			
8 BIANCO RD - JCT I-10	Т	Preservation	2016	\$12,700	(acob Late) B (Star B)			
10US 60 - MP 42	Y	Pavement Preservation	2016	\$20,300	COCONIMO CONTROLANON - TIMO ON			
15 NEVADA STATE LINE - MP 13	F	Pavement Preservation	2016	\$18,200	MOHAVE			
NEW RIVER ROAD - COLDWATER 17 ROAD	Р	Pavement Preservation	2017	\$20,600	Bullmad Anronis An Folt Pagetar Agency Anroling			
93 WIILOW BEACH - WHITE ROAD	к	Pavement Preservation	2017	\$9,800	Sectors Sectors			
8 MP 96 - PALOMA ROAD	Y	Pavement Preservation	2018	\$11,480	Paster Paster Dayon Index Carp Veria Paster Downlaw Back Dayon			
DYSART ROAD - BLACK CANYON 10HWY	E	Pavement Preservation	2018	\$26,500	Constraints			
10 COUNTY LINE TO SALOME ROAD	Y	Pavement Preservation	2018	\$11,480				
YAVAPAI- COCONINO COUNTY 17 LINE -I-40	F	Pavement Preservation	2018	\$16,360	Vuns VUMA Chi Bard Crass PinAL® PinAL®			
19MP 21.1- MP 31.8	т	Pavement Preservation	2018	\$12,230				
CANOA RANCH REST AREA - 19 DUVAL MINE ROAD TI	т	Pavement Preservation	2018	\$11,325	PIMA Person Pictures			
40 GARLAND PRAIRE - PARKS TI	F	Pavement Preservation	2018	\$27,400	N 0 50 100 Seaste Santa Backer Toogan			
40 PARKS TI - RIORDAN BRIDGE	F	Pavement Preservation	2018	\$13,000	Projects Note: Projects Concerning the accuracy of this r			
40US-93 - Willow TI	ĸ	Pavement Preservation	2018	\$12,630	2016 2017 Cities and Towns 2017 State Boundary 2019 State Boundary			
40 JACKRABBIT - JOE CITY	н	Pavement Preservation	2019	\$11,194				

## Modernization Program (FY16- FY20)

RT	LOCATION	D	Type Of Work	CFY	COST(\$000)
			Construct Shoulder		
264	BURNSIDE - FISH WASH	Н	Widening	2016	\$10,300
			Construct Shoulder		
89	OVERLOOK - JW POWELL BLVD	F	Widening	2016	\$8,892
			SAFETY		
-	BYLAS AREA	S	IMPROVEMENTS	2016	\$7,493
	ARABY ROAD TI		Construct		•
8	RECONSTRUCTION	Y	Roundabouts	2017	\$8,045
	WIILOW BEACH - WHITE HILLS		Construct Shoulder		
	ROAD	к	Widening	2017	\$7,500
	WIILOW BEACH TO WHITE		Construct Shoulder		
93	ROAD	Κ	Widening	2017	\$7,500
95	SR 95 @ MOHAVE RD	Y	Construction	2017	\$4,939
	RURAL INTELLIGENT				
	TRANSPORTATION SYSTEMS				
	VARIOUS ROUTES I-10,SR				
	89A,US 60, US 191,I-40	Ν	Install DMS Signs	2017	\$4,600
			~		
40	WILLOW SPRINGS	K	Rockfall Mitigation	2017	\$4,407
			Construct		<b>.</b>
95	US 95 AND 8E INTERSECTION	Y	Roundabout	2017	\$4,200

Tentative 2016-2020 Five-Year Transportation Facilities Construction Program Modernization Projects



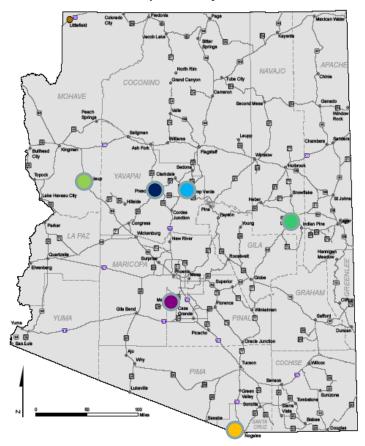


## Expansion Program (FY16- FY20)

RT	LOCATION	D	Type Of Work	CFY	COST(\$000)
260	THOUSAND TRAILS - I-17	Р	Construct Improvements	2016	\$62,000
	UNION PACIFIC RR				<b>•</b> • • • • •
347	CROSSING	Т	Right of Way	2016	\$5,500
189	NOGALES TO I-19	т	Environmental	2016	\$2,000
103		ľ		2010	ψ2,000
	JCT SR 89A - DEEP WELL		Widen corridor to improve capacity,		
89	RANCH ROAD	Ρ	operations and safety	2017	\$15,000
<b>9</b> 347	UNION PACIFIC RR CROSSING	Т	Right of Way	2017	\$7,300
60	SHOW LOW TO LITTLE MORMON LAKE	G	Widen Roadway	2018	\$6,000
93	CANE SPRINGS		Design 4-lane divided highway	2019	
33				2019	φ3,000
<b>9</b> 347	UNION PACIFIC RR CROSSING	Т	Construction	2020	\$36,200

ADOT

#### Tentative 2016-2020 Five-Year Transportation Facilities Construction Program Expansion Projects



Note: 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.



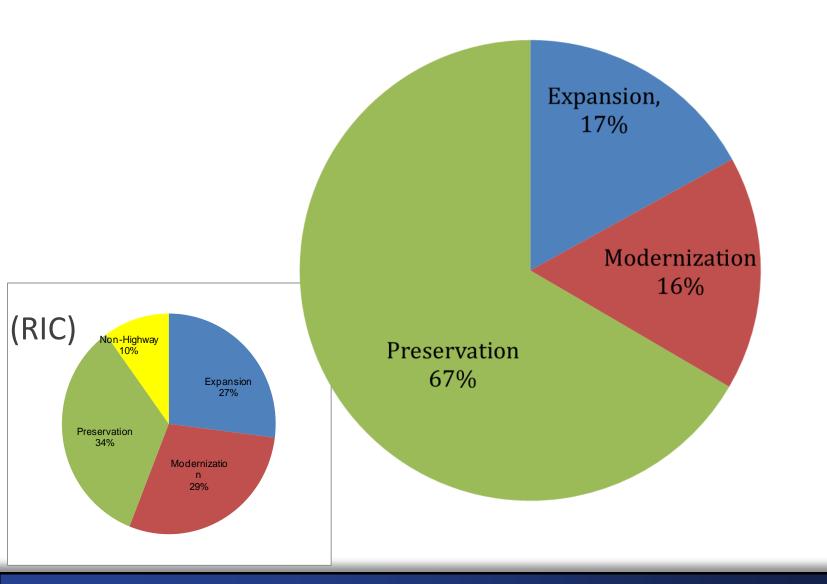
Prepared by: Arizona Department of Transportation Multimodal Planning Division Transportation Analysis GIS Section 602,712,7333 January 2016

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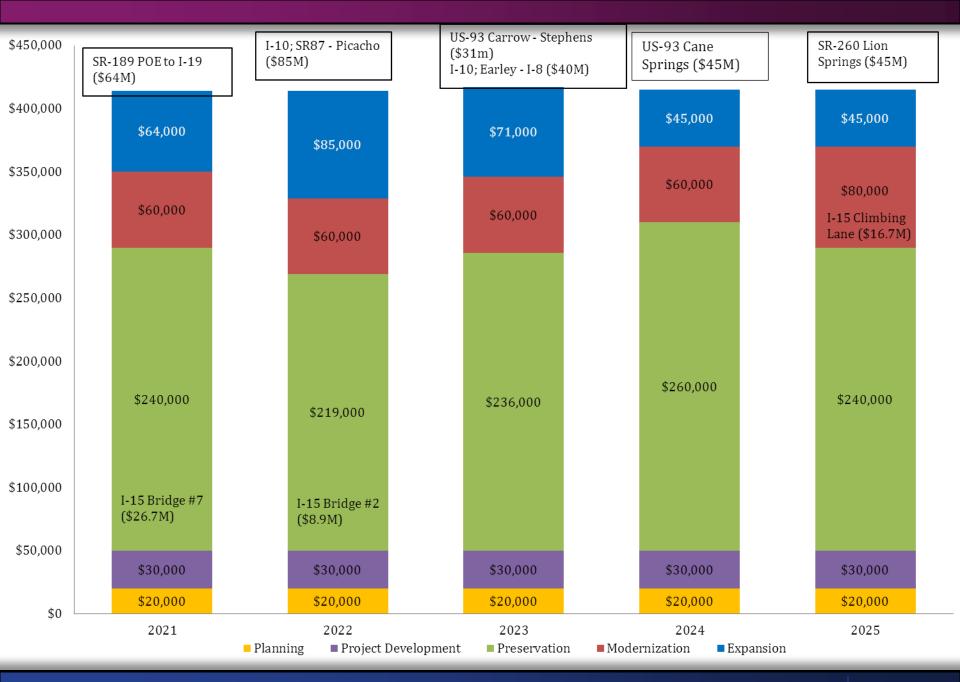
# Summary of the Tentative Program FY16-20 Update this slide

- Updated Project Costs
- Keeps SR-260 Thousand Trails in FY 2016
- Keeps SR-347 UPRR Overpass Right of way Phase in FY 2016
- Keeps SR-189 Environmental Phase in FY 2016
- Keeps SR89; Deep Well Ranch Road to SR89A in FY 2017
- Keeps US-60 Show Low to Little Mormon Lake in FY 2018
- Programs US-93 Cane Springs Design in FY 2019
- Includes I-15 Bridge #1 Replacement in FY19; \$33M
- Add Construction for the SR-347 UPRR Overpass for \$28,200 with \$8,000 to come from Local Area

# Year 6-10 (FY21 – FY25)









## PAG; Tentative Program (FY16-20)





# PAG Tentative Program(FY16- FY20)

#### 2016 / 2017

I-10; Ina Road TI - \$85 M

#### <u>2016 / 2019</u>

I-10; Houghton Road TI - \$41 M

#### <u>2017 / 2018</u>

I-10; Ruthrauff TI - \$104 M

#### 2018 / 2020

I-10; Country Club Rd TI - \$71 M

#### 2019 / 2020

I-10; Kino Rd TI - \$14 M (Design & R/W)

#### 2019 / 2020

I-10; Park Ave TI - \$5 M (Design Only)

#### <u>2018</u>

I-19; Ajo Way TI, Phase II - \$30 M

#### <u>2019</u>

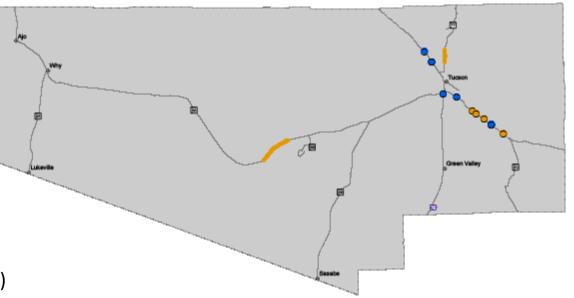
I-19; Irvington Road TI - \$10 M (Design & R/W)

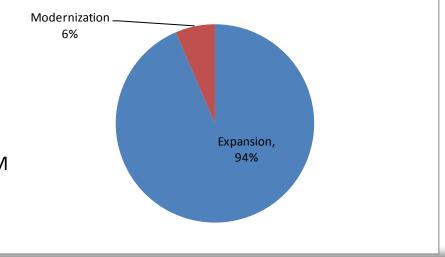
#### <u>2016</u>

SR86; San Isidro Rd Segment (MP 123.9-128.8) - \$8 M

<u>2018</u>

SR86; Fresnal – MP 123.9 - \$10 M





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# MAG Area Regional Transportation Plan Freeway Program





# MAG Area Freeway Program (FY16- FY20)

### 2016-2020

SR 202L; South Mountain - \$1.14 B

### <u>2016</u>

US60; Thompson Ranch (Thunderbird) TI - \$7 M

### <u>2016</u>

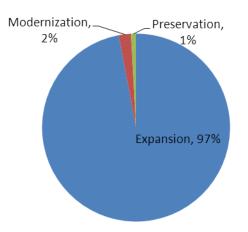
SR 303L; I-10 Interchange, Phase II - \$83 M

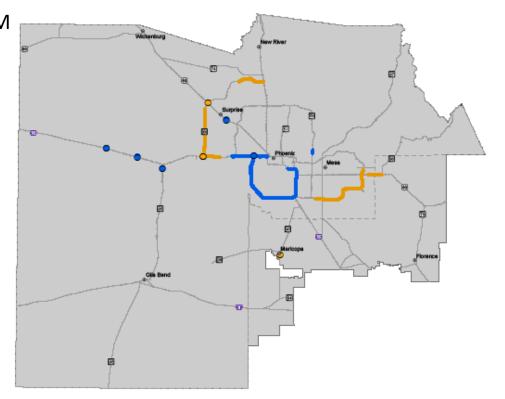
### 2016/2020

I-10; 32<sup>nd</sup> St to SR 202L - \$307 M

#### <u>2020</u>

US60; Crismon Rd – Meridian Rd - \$27 M







### **ADDT** 2016-2020 Tentative Five-Year Transportation Facilities Construction Program Airport Capital Improvement Program

Service de l'andre a

Prescott Airport Ernest A. Love Field - 2014 Arizona Airport of the Year



### **Arizona Revised Statutes**

Title 28 – Transportation, Chapter 25 - Aviation

### • ARS 28 - 8202 State Aviation Fund

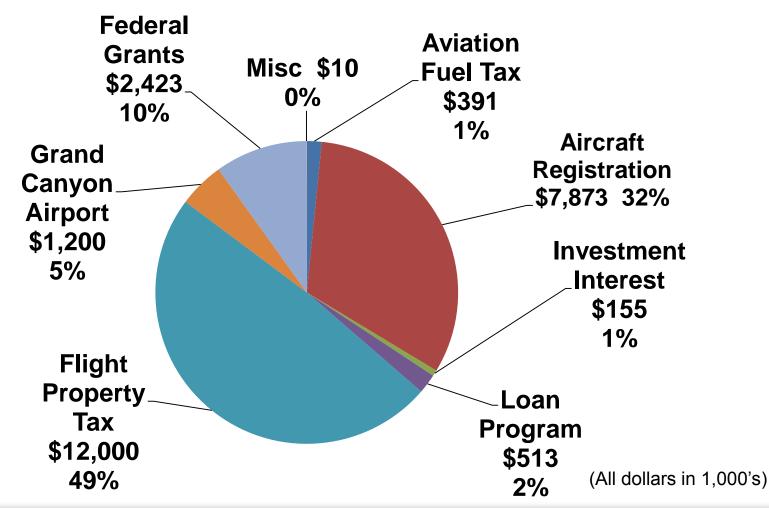
• "C. The department shall administer monies that are appropriated by the legislature from the state aviation fund."

• "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."



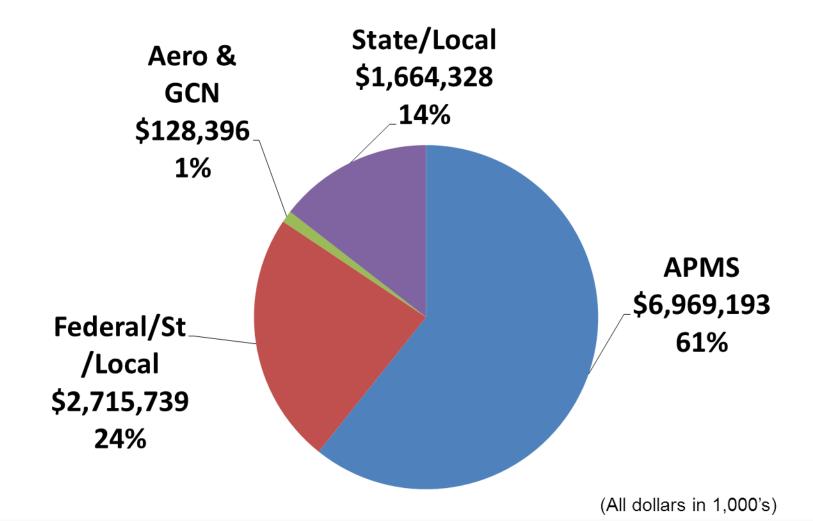
# **Arizona State Aviation Fund**

### Revenue for FY 2014 - \$24,563,000





Arizona State Aviation Fund Expenditures for FY 2014 - \$11,478,000



### **Airport Capital Improvement Program (ACIP)** Five-Year Development Program - Fiscal Year 2016

• Federal Match Grants (FSL)	\$ 4,500,000		
• State-Local Grants (SL)	\$15,890,000		
• Airport Pavement Preservation (APMS)	\$ 5,678,000		
Airport Development Loans	\$ O		
State Planning Services	\$ 3,500,000		
Total Program	\$29,568,000		



## **Next Steps**

- Finalize Tentative 5-Year Program and present to STB; February 20, 2015
- Public Meetings

March 20 Tucson

April 17 Phoenix

May 15 Chino Valley

- Study Session May 26 in Phoenix
- Present Final Program to STB; June 19<sup>th</sup> for approval
- Program must be signed by Governor by June 30<sup>th</sup>
- ▶ FY 16 begins July 1<sup>st</sup>, 2015

