

Pavement Materials Conference

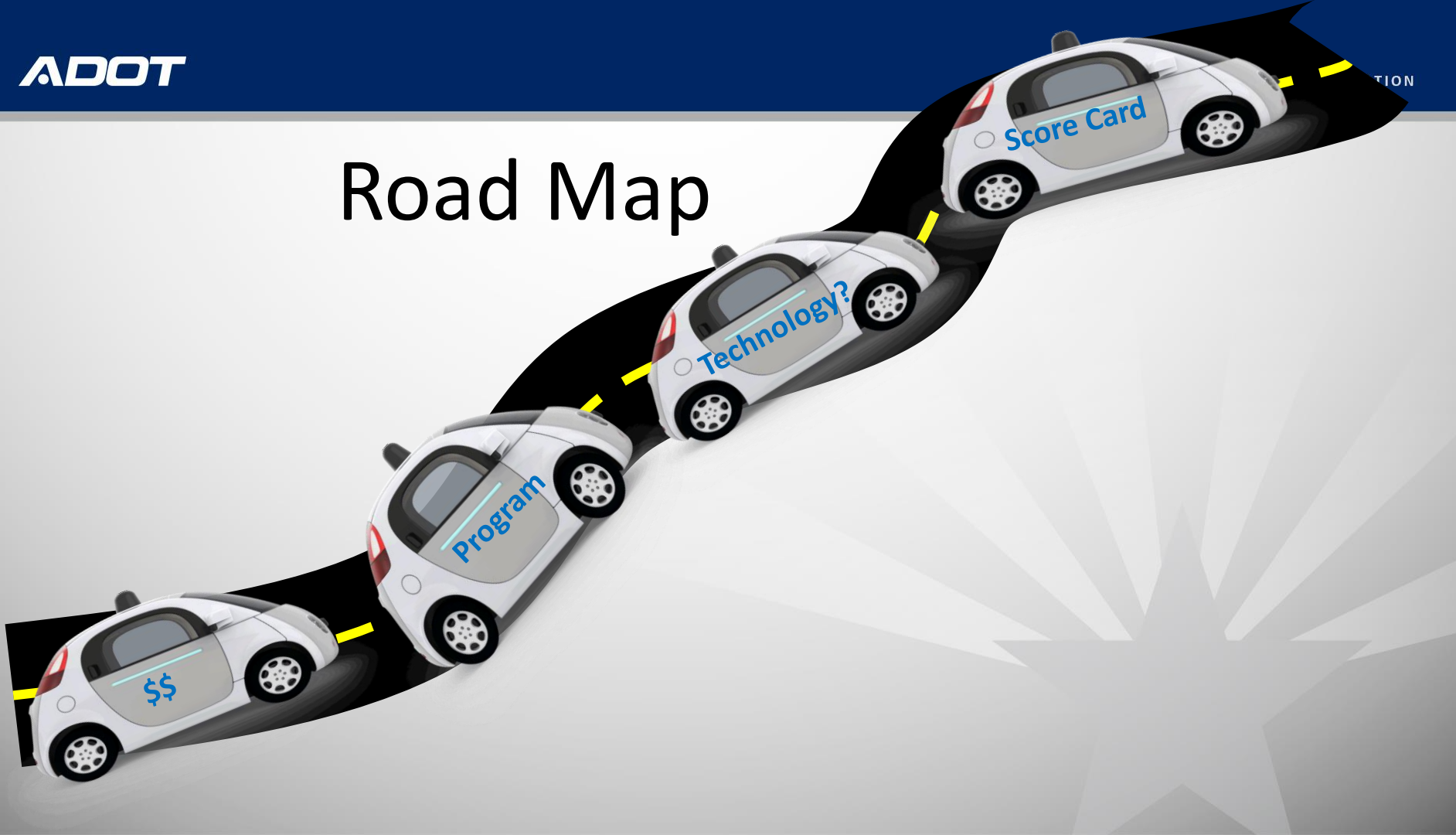
Staying Ahead of the Performance Curve

Dallas Hammit

Deputy Director for Transportation / State Engineer

November 15, 2018

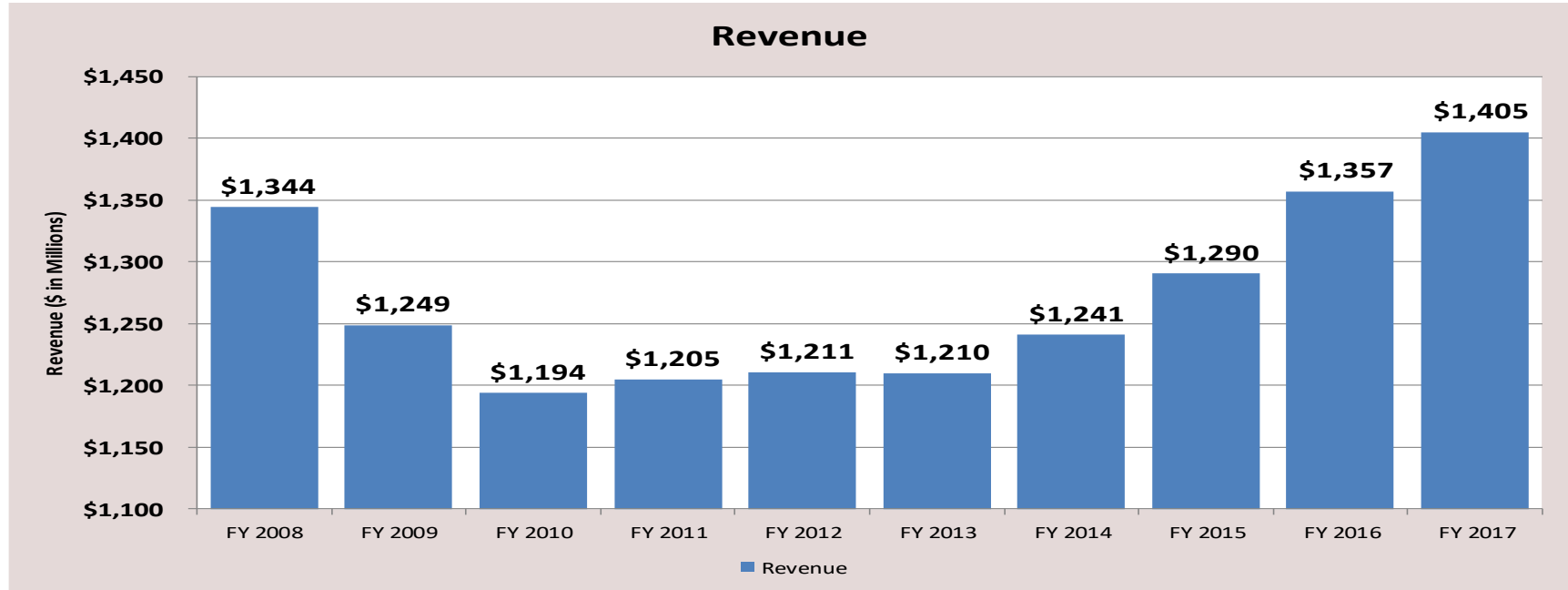
Road Map



Highway User Revenue Fund (HURF)



Highway User Revenue Fund (HURF): FY2017 Revenues

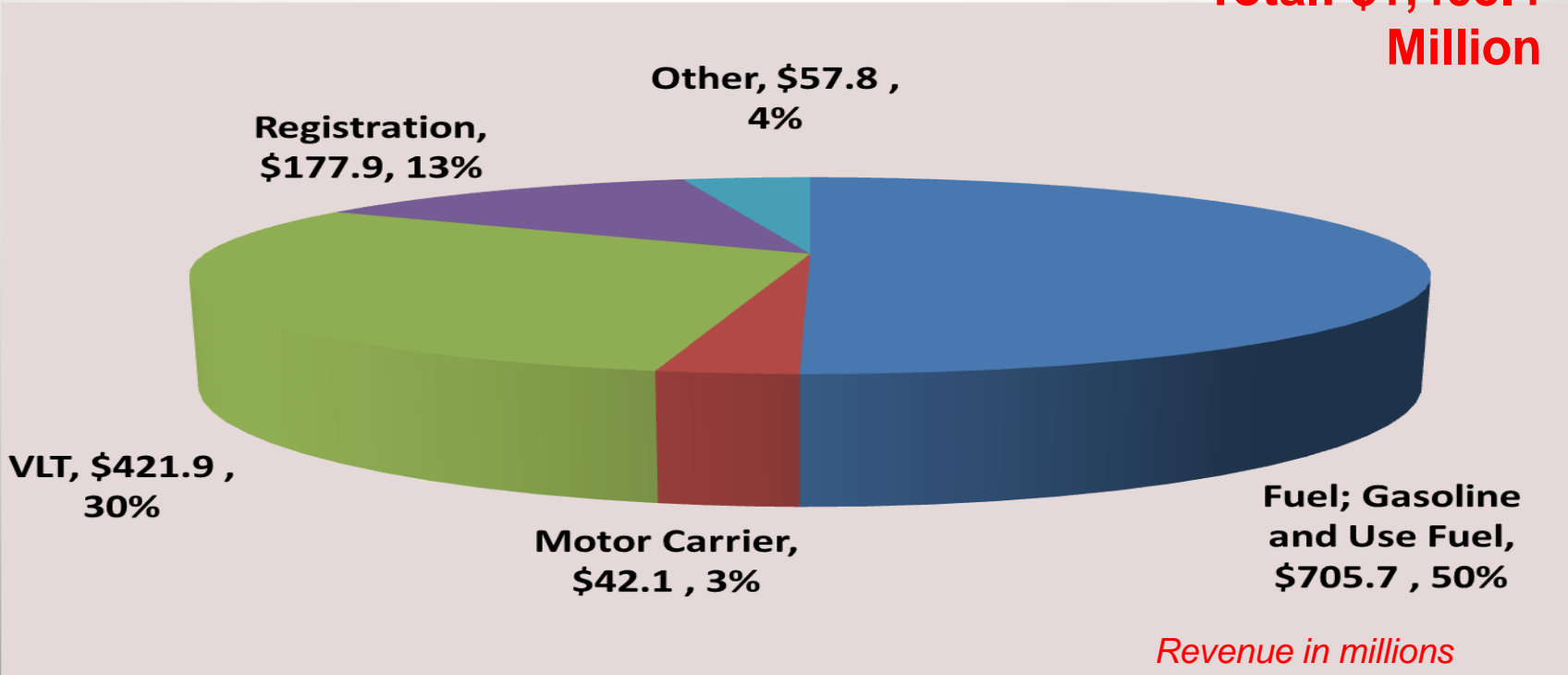


	FY 2016 Actual	FY 2017 Actual	Change	FY 2017 Estimate	Change
Total	\$ 1,356,752	\$ 1,405,448	3.6%	\$ 1,415,600	-0.7%

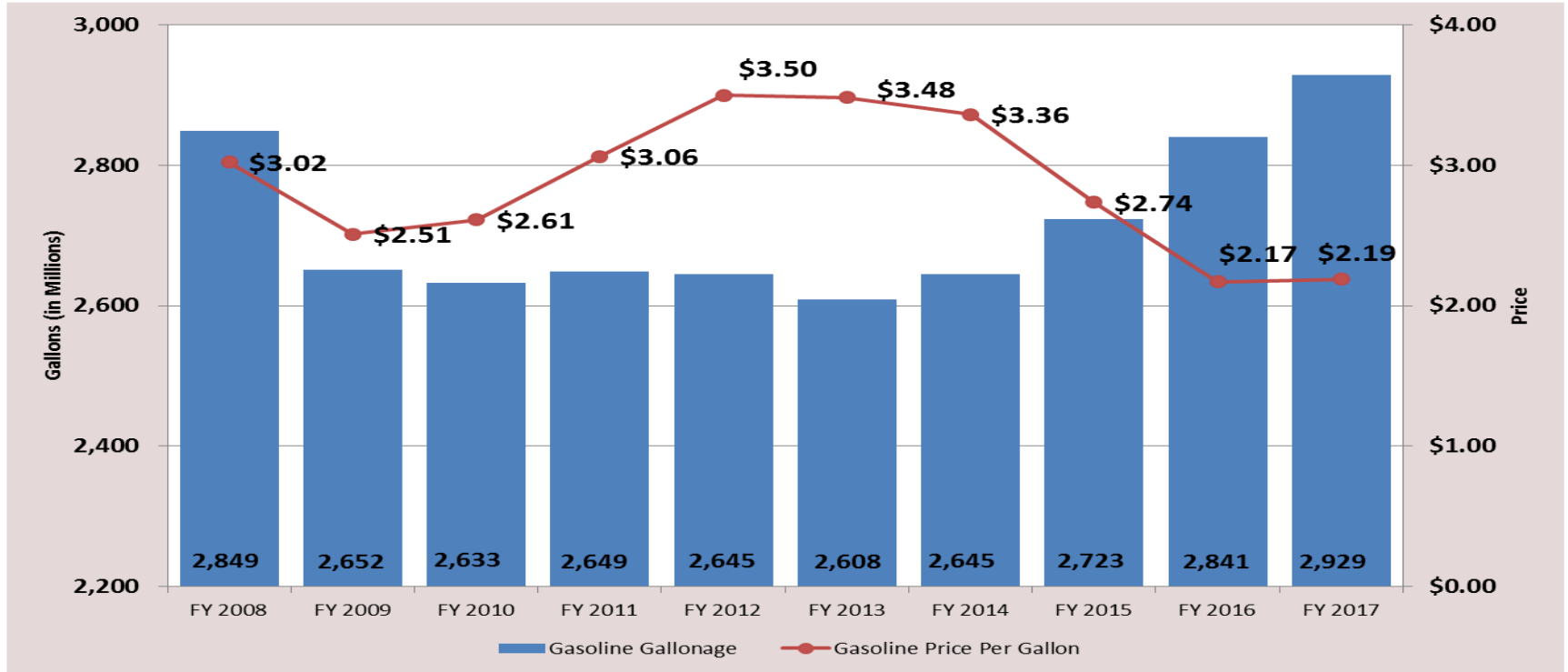
Highway User Revenue Fund (HURF):

FY2017 Sources

Total: \$1,405.4 Million



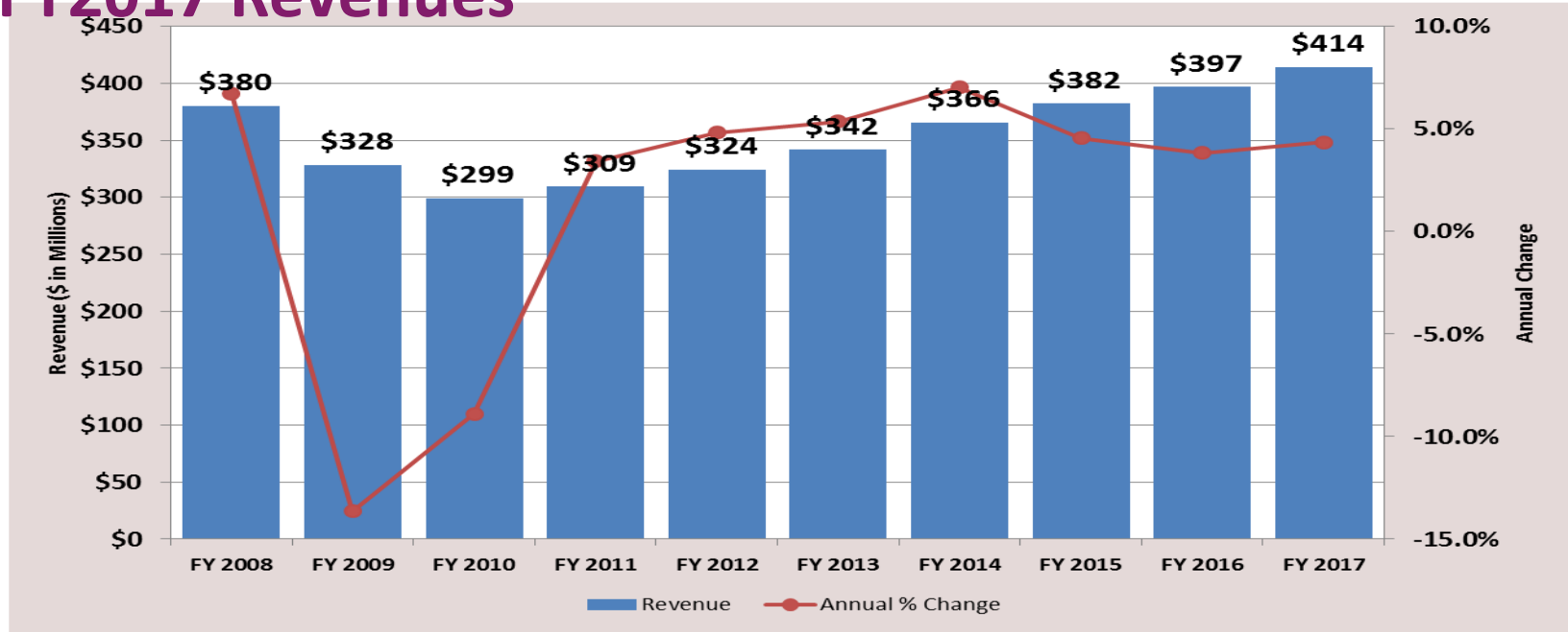
Highway User Revenue Fund (HURF): Gasoline Gallons Sold and Price Per Gallon



Regional Area Road Fund (RARF)



Regional Area Road Fund (RARF): FY2017 Revenues

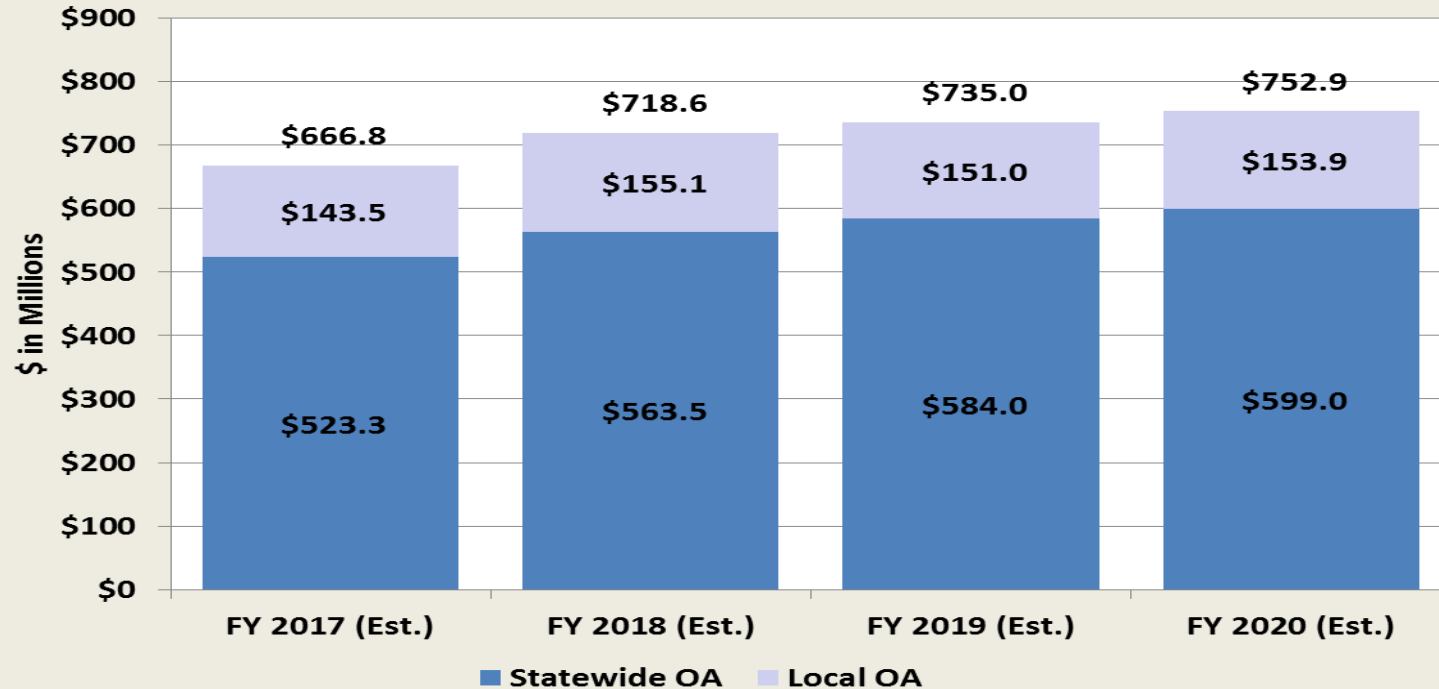


	FY 2016 Actual	FY 2017 Actual	Change	FY 2017 Estimate	Change
Total	\$ 396,810	\$ 414,071	4.3%	\$ 411,400	0.6%

Federal Funding




FAST Act Formula Obligation Authority: State & Local Distribution (Estimated)



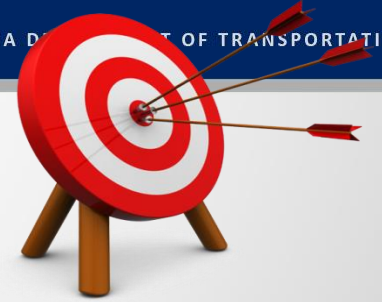
in Millions

How will we move forward?

Long Range Plan



Performance Goals



- ***Safety:*** Reduce fatalities and serious injuries
- ***Infrastructure Conditions:*** NHS in state of good repair
- ***Congestion Reduction:*** On NHS, in particular
- ***System Reliability:*** Surface transportation efficiency
- ***Freight Movement & Economic Vitality:*** Access to markets
- ***Environmental Sustainability:*** Protect/enhance environment

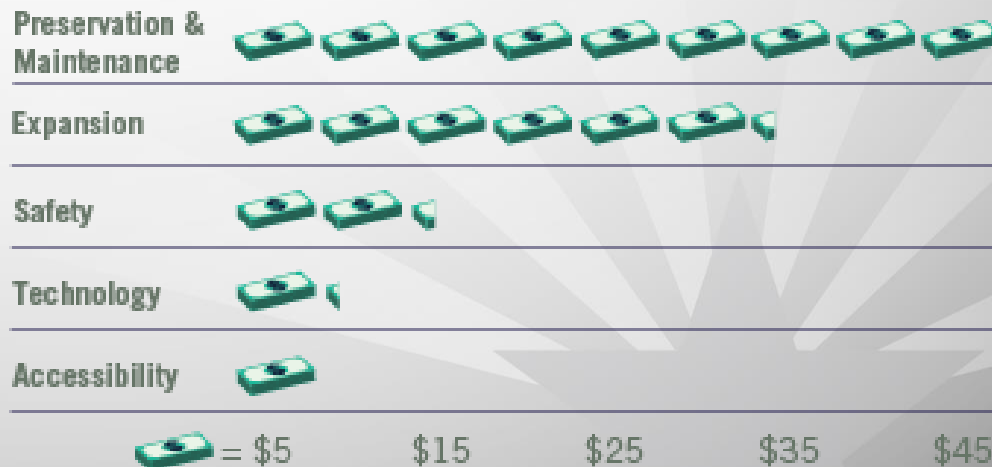
Citizen Survey Results



- Preference for System Preservation
- Expansion focus stronger in large Metro Areas
- All projects promote Safety

How Stakeholders Think ADOT Should Allocate Funding

PER \$100



25-Year Highway Needs

- Preservation = \$9.236 B
- Modernization = \$9.962 B
- Expansion = \$34.054 B
- **Total = \$53.3 B**

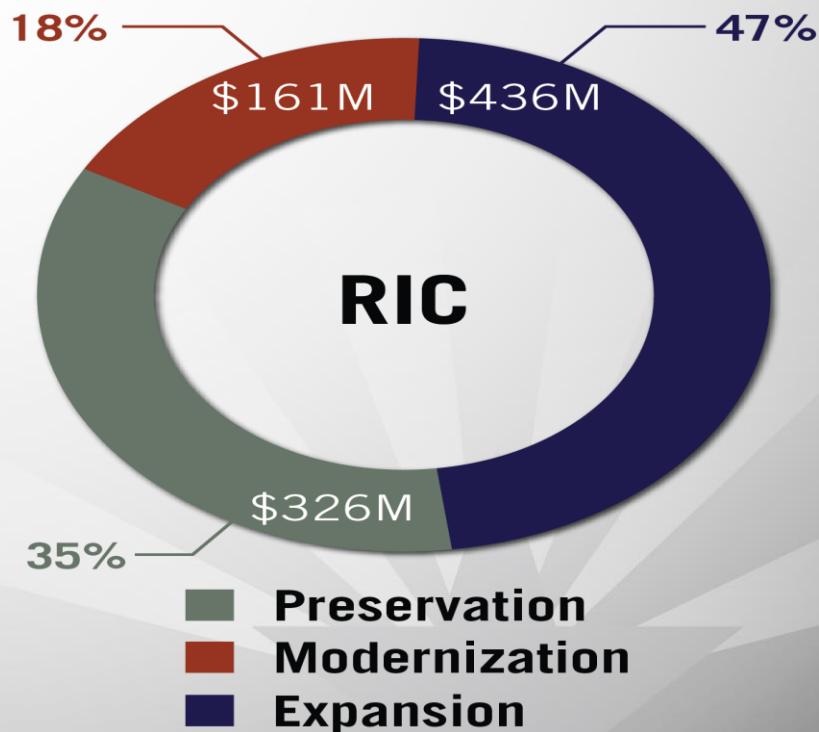
Estimated Funding Gap 30.5 Billion



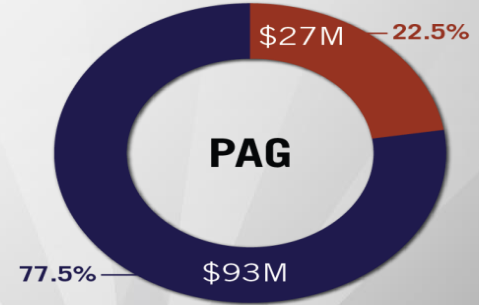
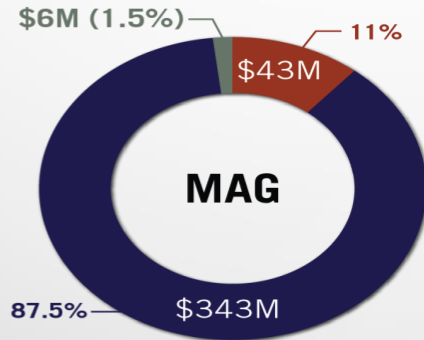
Total Highway
Capital Needs

Recommended Investment Choice - Statewide

- System Preservation Needs Statewide
- Expansion focus in large Metro Areas
- Safety remains a priority



RIC – MAG and PAG – Expansion Focus

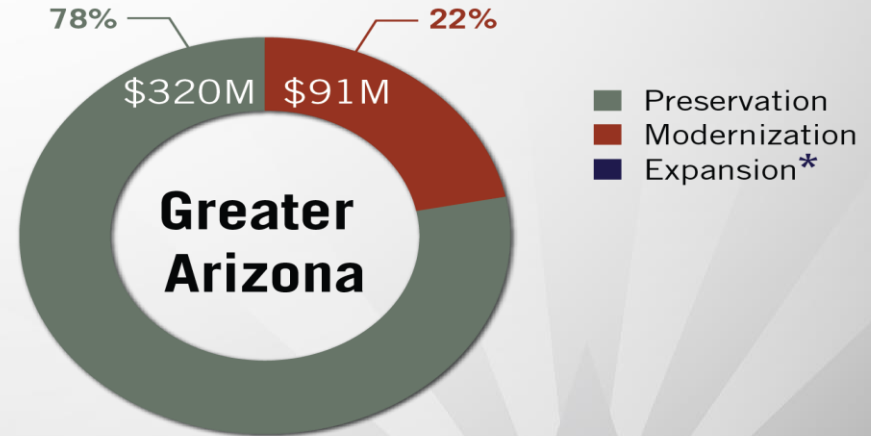


- Preservation
- Modernization
- Expansion

- Modernization
- Expansion

Recommended Investment Choice – Greater Arizona

- **System Preservation is Priority**
- **Fund the Highway Safety Improvement Program and Avoid System Obsolescence**
- *** Up to 5% of funding reserved for Expansion *only* to match federal grants or leverage third party contributions (*or* if Revenues incr.)**



FY2019 – FY2023
Five-Year Transportation Facilities
Construction Program

A large, faint, light gray graphic of the Arizona state star is positioned in the lower right background of the slide.

Overview of Asset Condition



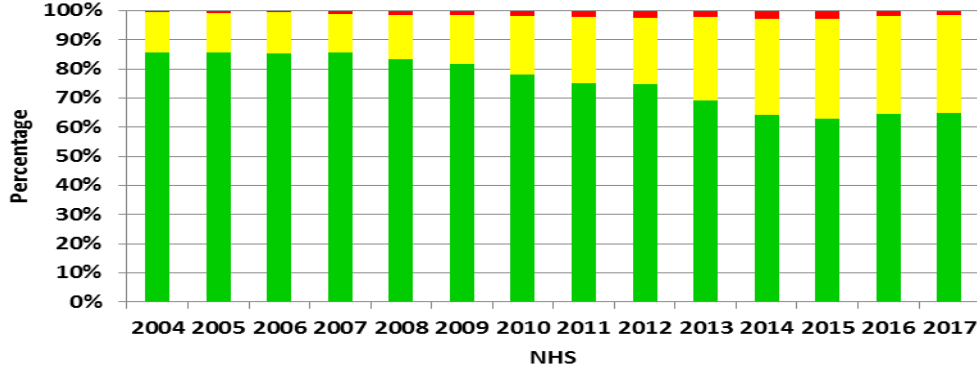
\$21.5 Billion = Value of State Highway System Infrastructure

**\$21.5
Billion**



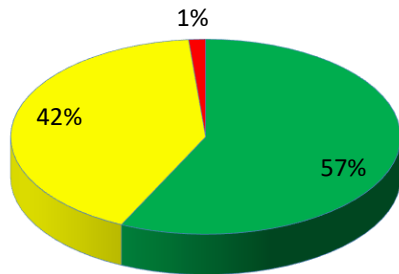
Without a commitment to preservation, the system would cost \$200 billion to replace.

Bridge Condition

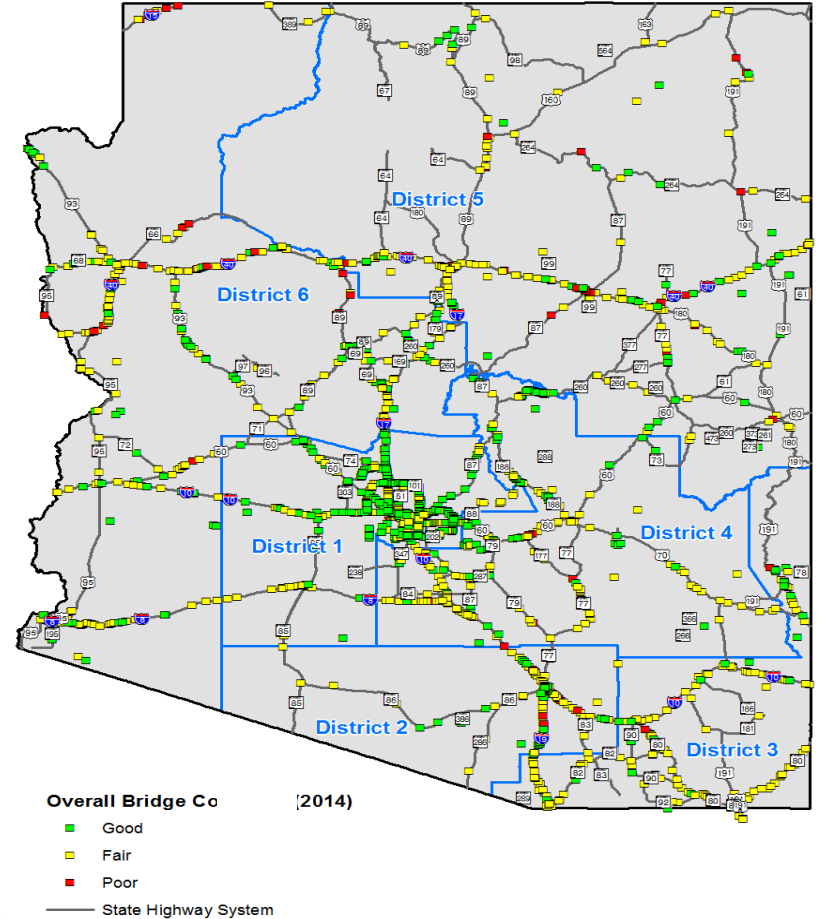


Good Fair Poor

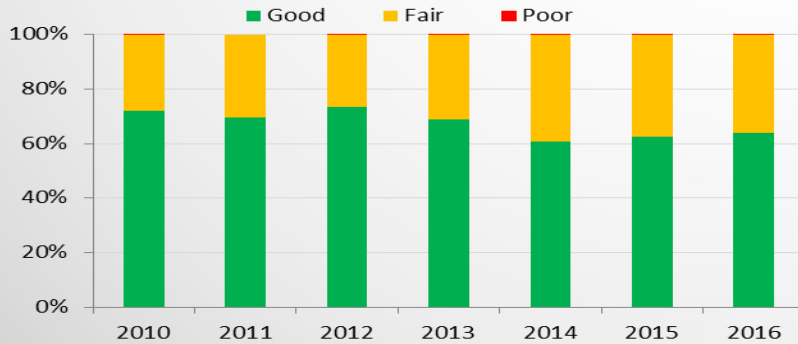
Overall Bridge Condition 2017



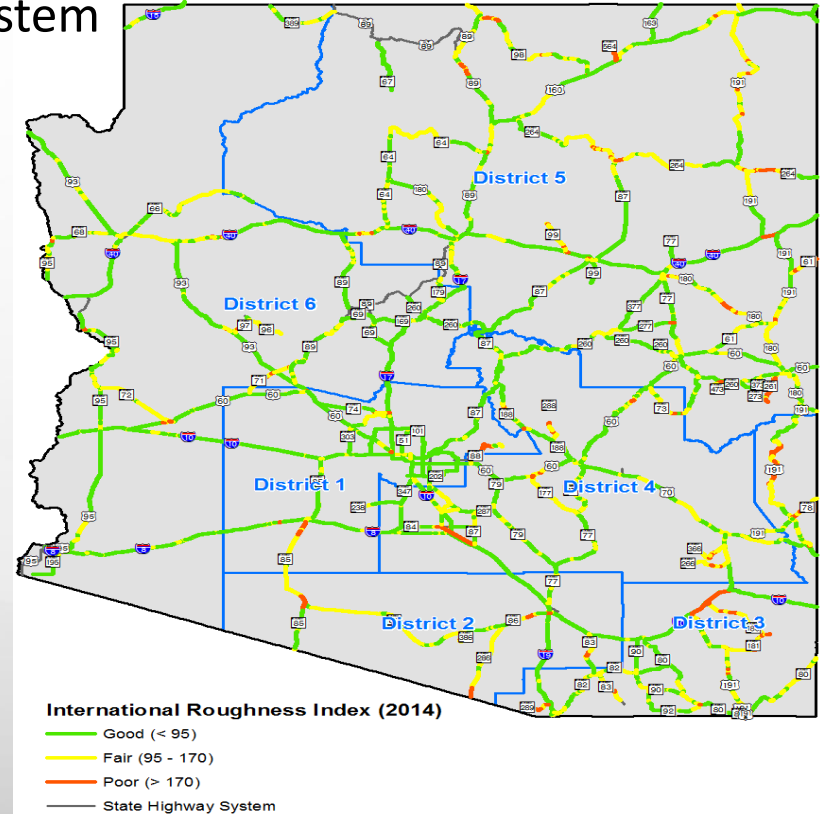
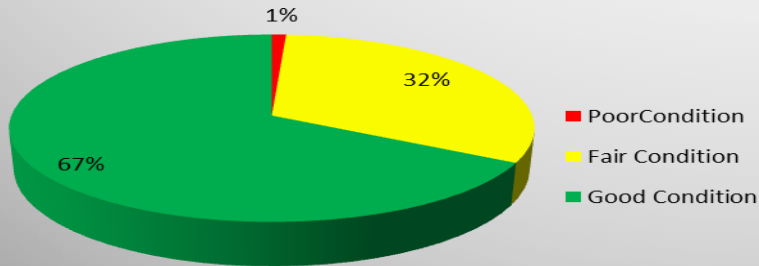
Good
Fair
Poor



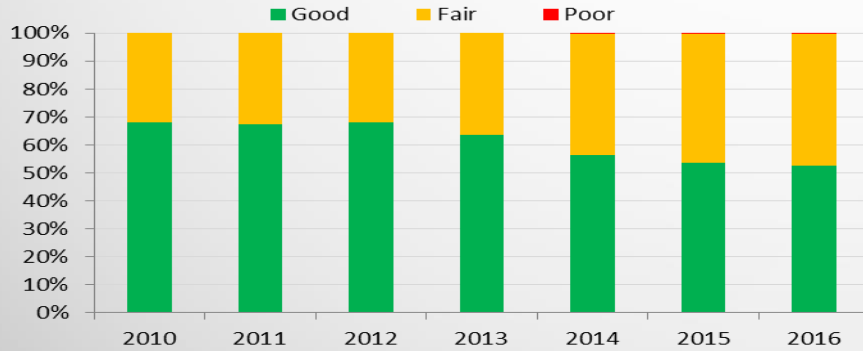
Pavement Condition: Interstate Highway System



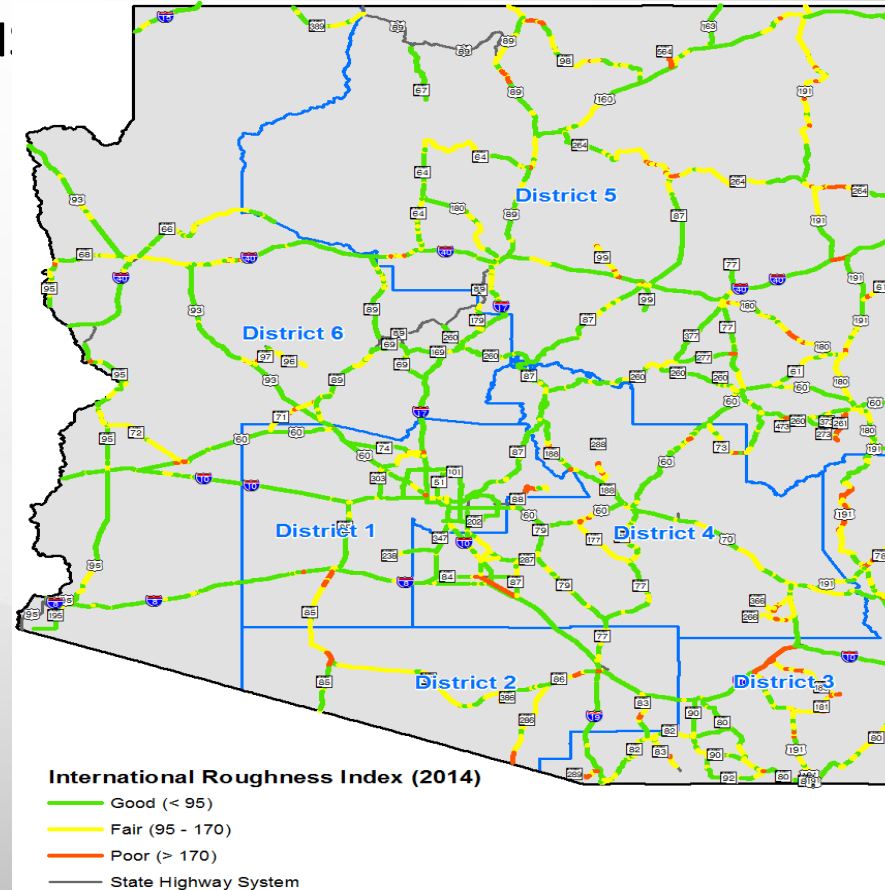
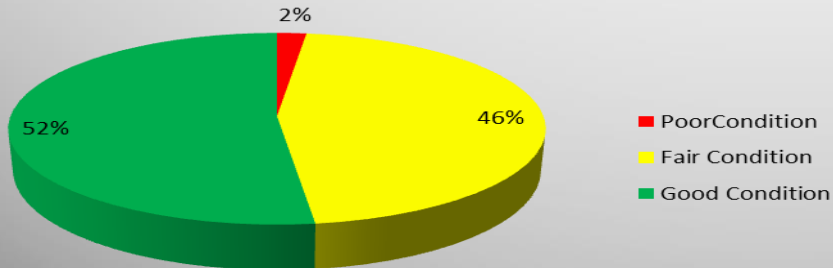
Pavement Condition 2016



Pavement Condition: Non-Interstate NH

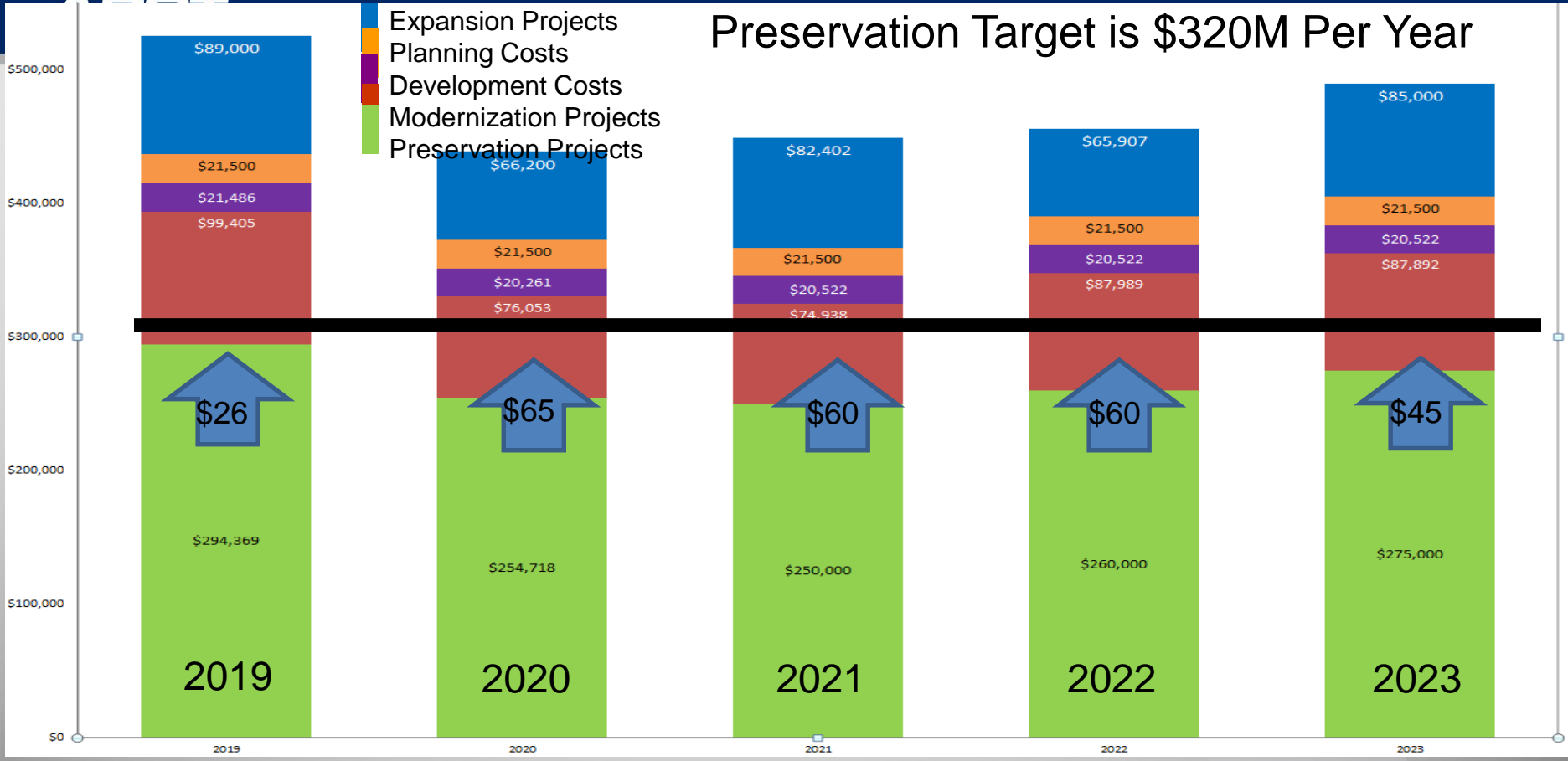


Pavement Condition 2016



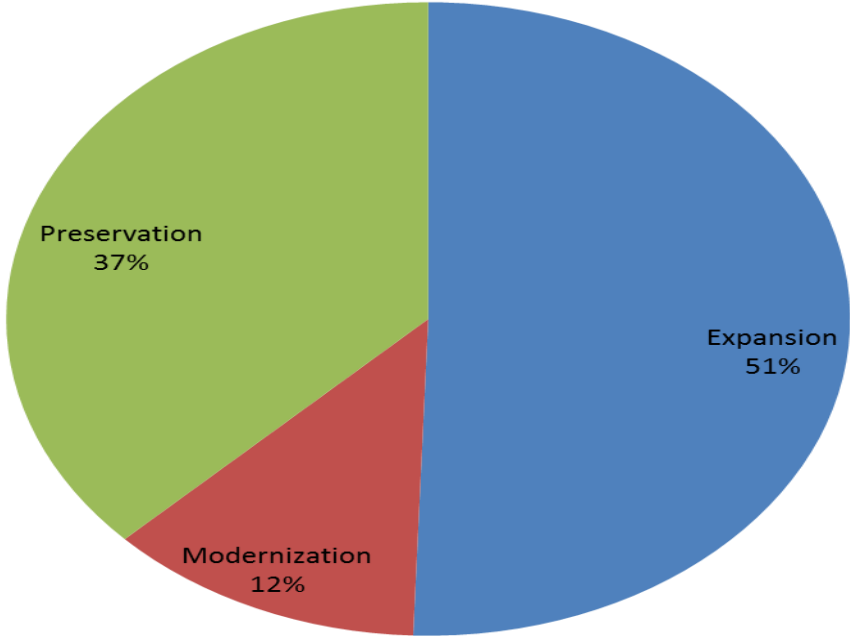
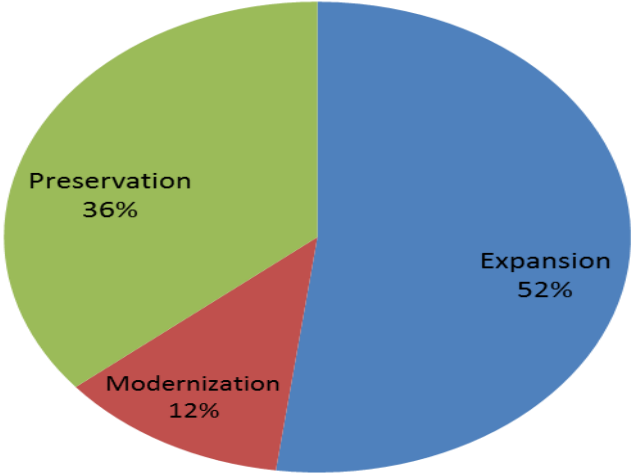
Preservation Target is \$320M Per Year

- Expansion Projects
- Planning Costs
- Development Costs
- Modernization Projects
- Preservation Projects



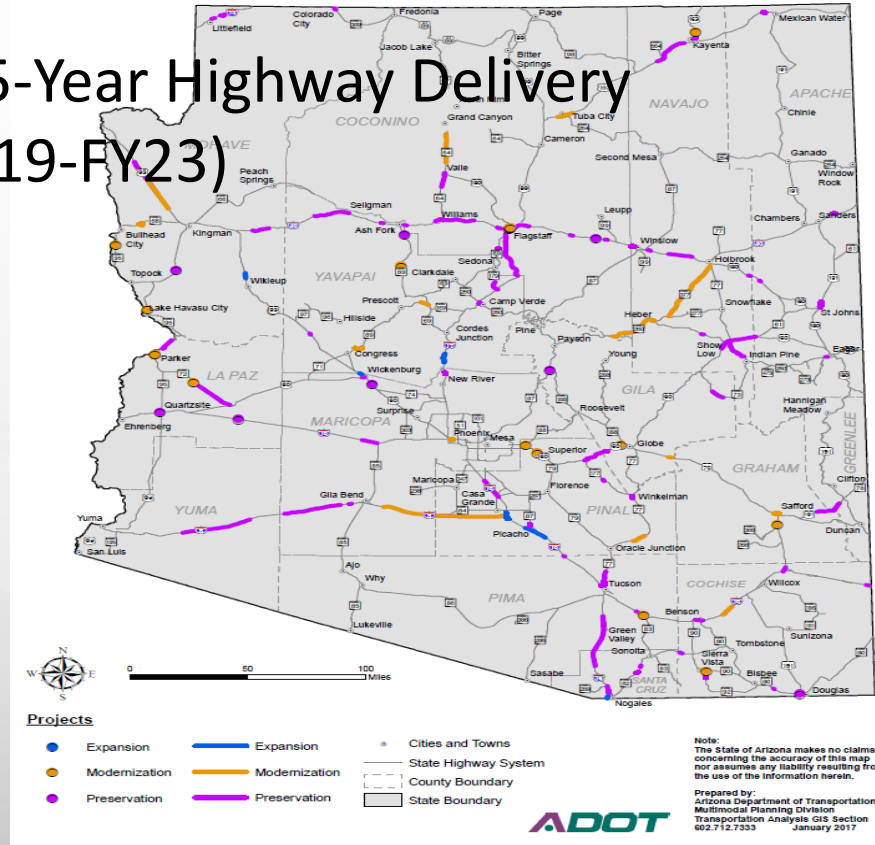
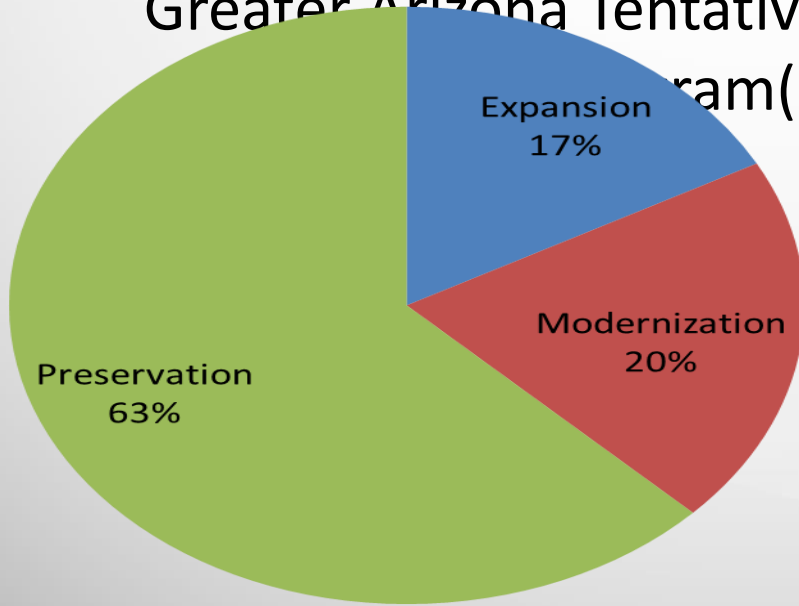
2019-2023 Tentative Facilities Construction Program

2018-2022 Facilities Construction Program



Includes MAG & PAG Funding

Greater Arizona Tentative 5-Year Highway Delivery Program (FY19-FY23)



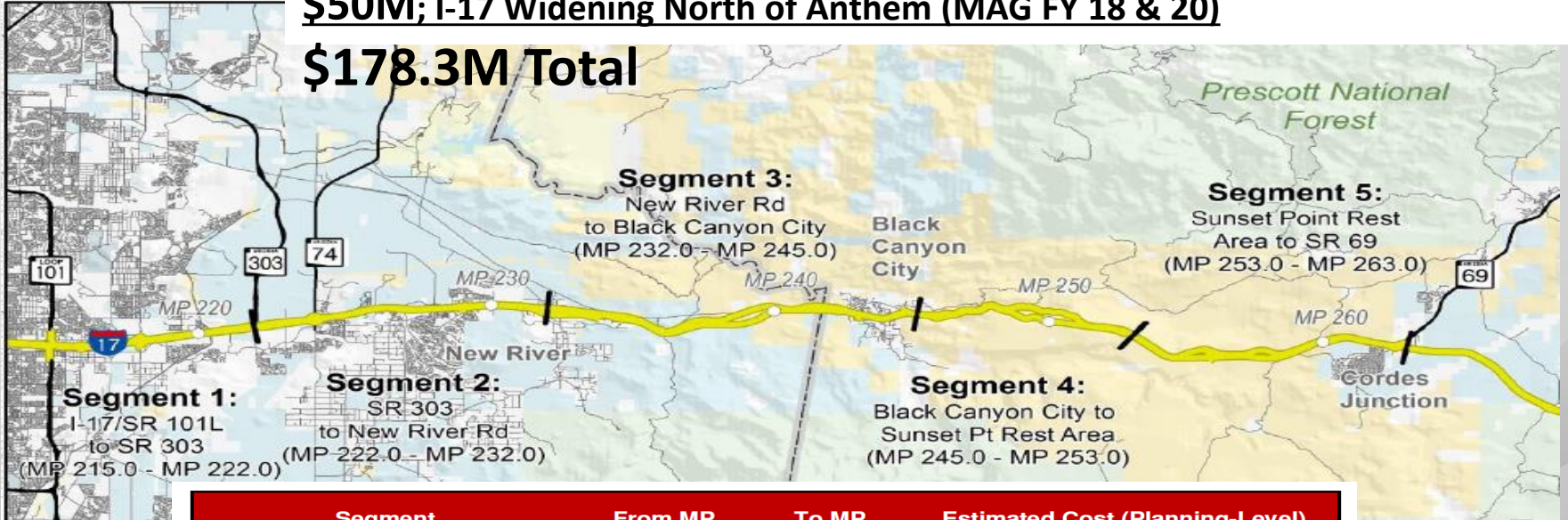


\$62.4M; I-17 Anthem to Sunset Point (5YR Program FY21)

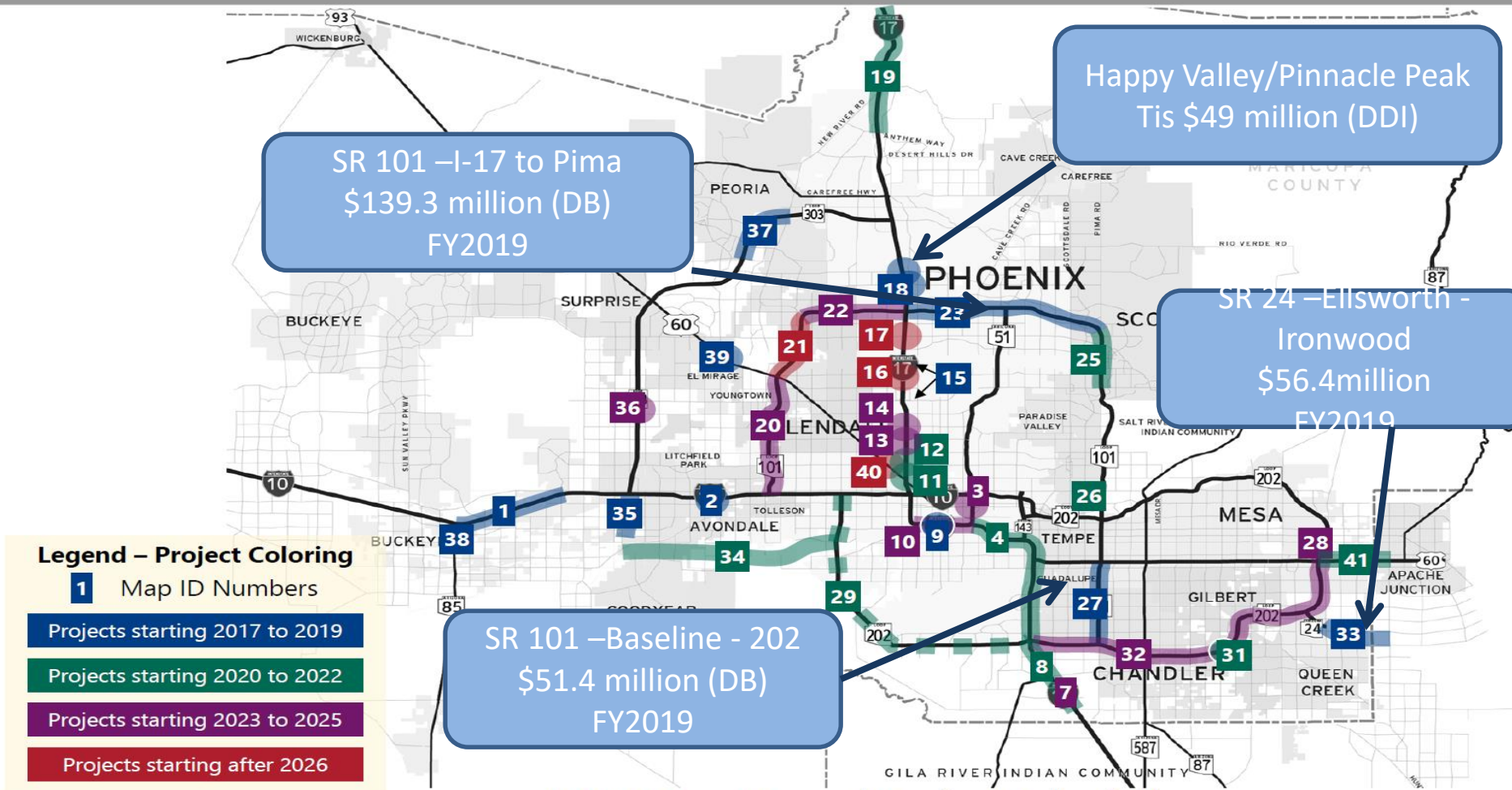
\$65.9M; I-17 Anthem to Sunset Point (5YR Program FY22)

\$50M; I-17 Widening North of Anthem (MAG FY 18 & 20)

\$178.3M Total



Segment	From MP	To MP	Estimated Cost (Planning-Level)	
Anthem to New River	229.0	232.0	\$	39,996,200
New River to Black Cyn City	232.0	244.4	\$	160,800,000
Black Cyn City to Sunset Pt	244.4	252.5	\$	107,900,000
Sunset Pt to Jct. SR 69	252.5	262.0	\$	138,600,000
TOTAL			\$	447,296,200



SR 101 –I-17 to Pima
\$139.3 million (DB)
FY2019

Happy Valley/Pinnacle Peak
Tis \$49 million (DDI)

SR 24 –Ellsworth -
Ironwood
\$56.4million
FY2019

SR 101 –Baseline - 202
\$51.4 million (DB)
FY2019

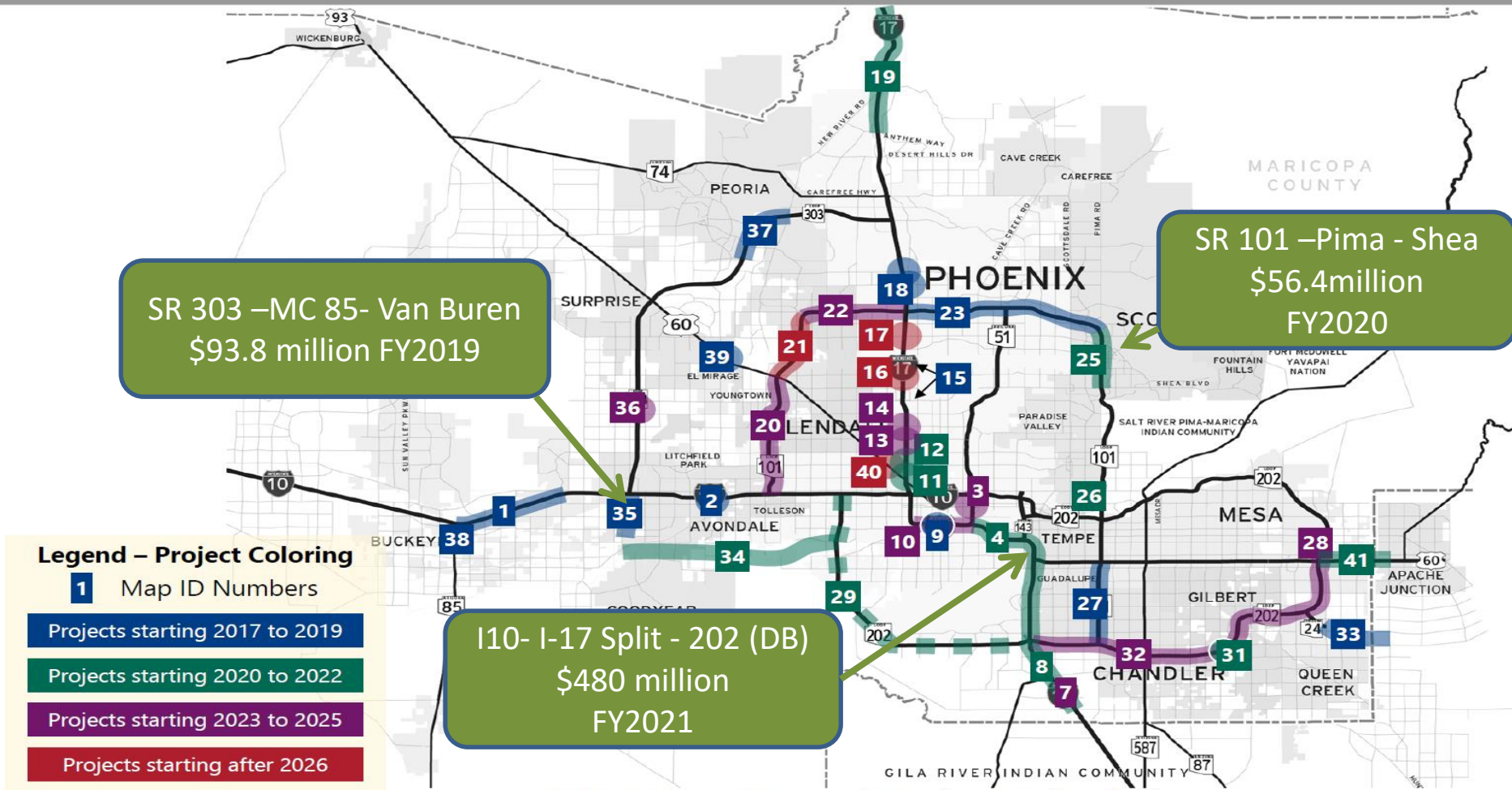
Legend – Project Coloring

1 Map ID Numbers

- Projects starting 2017 to 2019
- Projects starting 2020 to 2022
- Projects starting 2023 to 2025
- Projects starting after 2026

RFHP Map IDs and Project Scheduling

(as of 6/5/2017)



SR 303 –MC 85- Van Buren
\$93.8 million FY2019

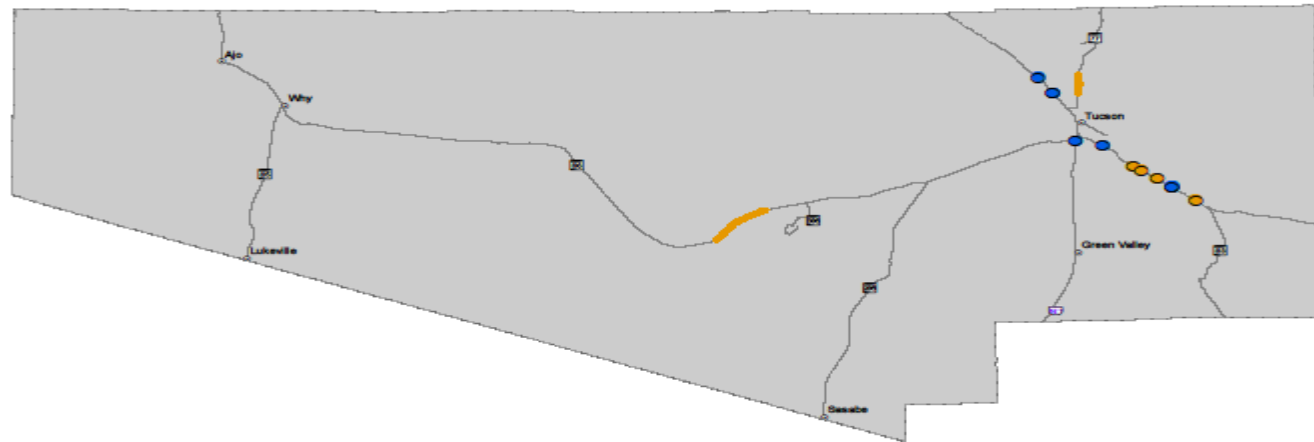
SR 101 –Pima - Shea
\$56.4million
FY2020

I10- I-17 Split - 202 (DB)
\$480 million
FY2021

Legend – Project Coloring

- 1 Map ID Numbers
- Projects starting 2017 to 2019
- Projects starting 2020 to 2022
- Projects starting 2023 to 2025
- Projects starting after 2026

RFHP Map IDs and Project Scheduling
(as of 6/5/2017)



I-10 Houghton Rd TI \$45.6M FY 19-21 (DDI)

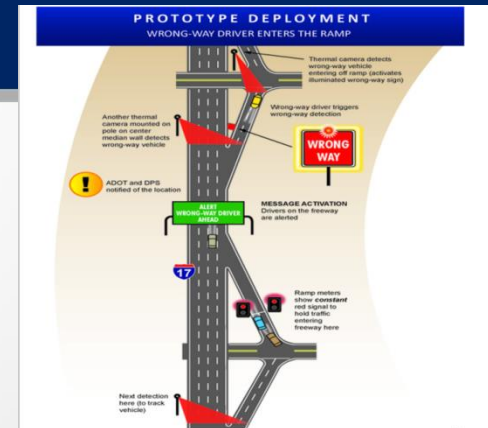
I-10 Ina Road TI \$19.4M FY 20 & 21

I-10 Ruthrauff TI \$101.8M FY 19-21

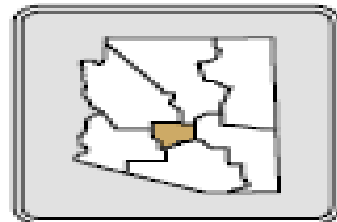
I-10 Ina to Ruthrauff \$129.2M FY 20-22

New Technology

Wrong Way Detection

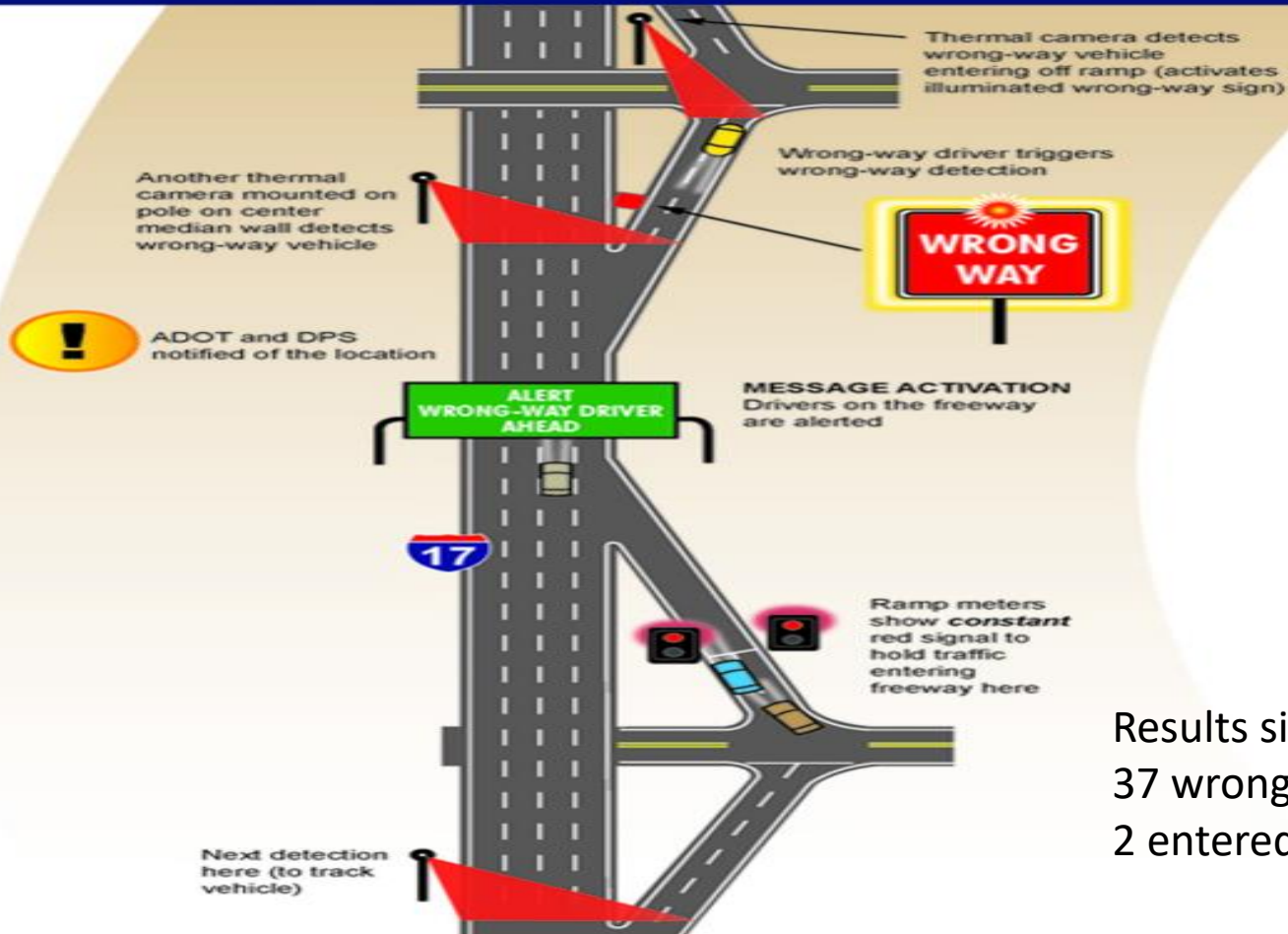


Wrong Way Detection Project



PROTOTYPE DEPLOYMENT

WRONG-WAY DRIVER ENTERS THE RAMP

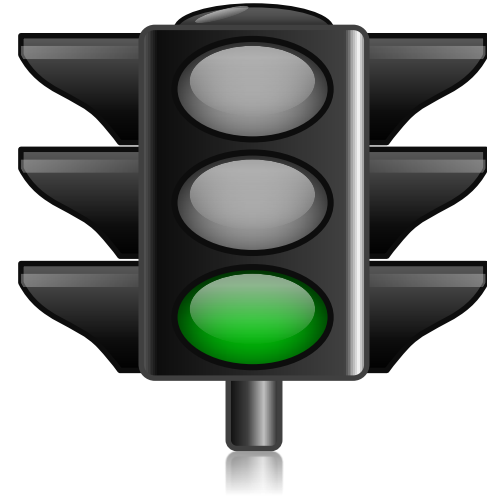
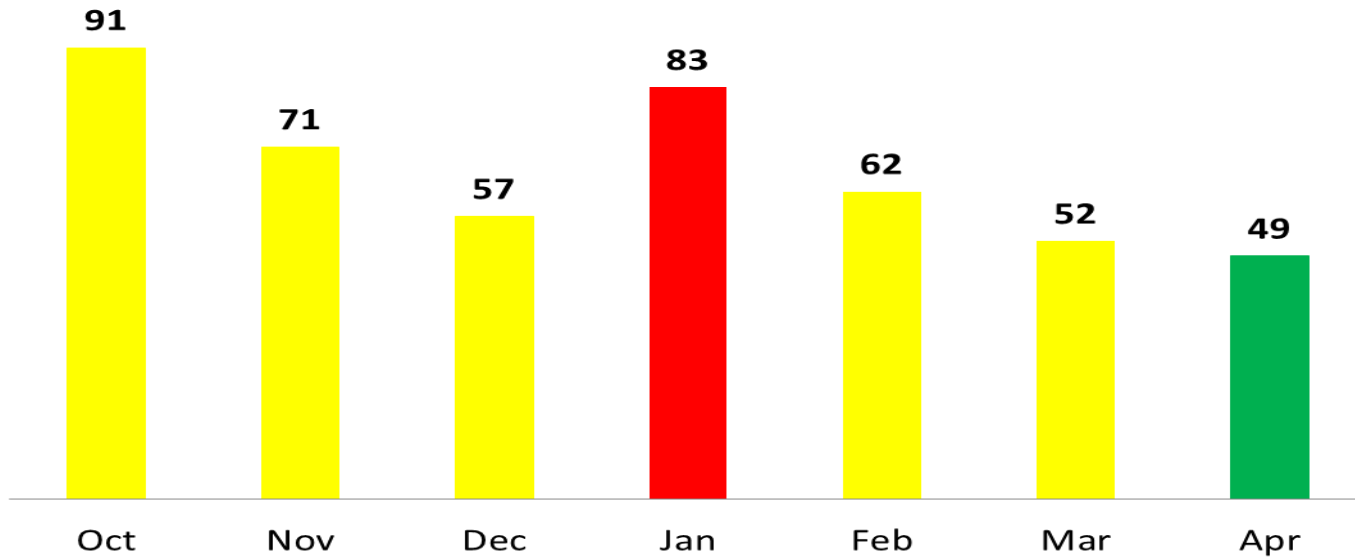


Results since January
37 wrong way events
2 entered the freeway

Keeping Score

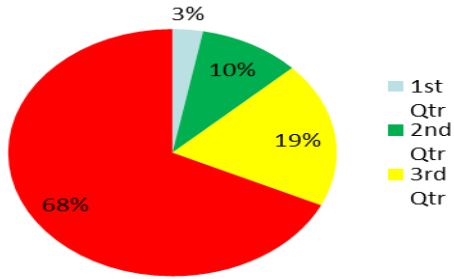
Task Order Execution

150 Days to Target of 50 Days

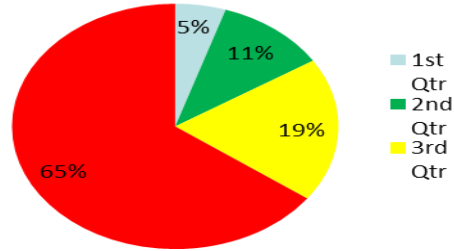


20-30-30-20 Progress

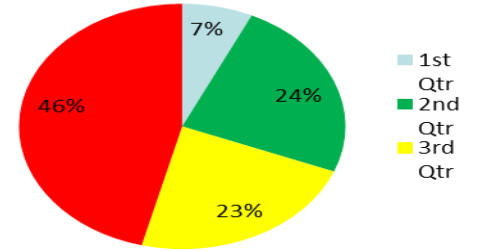
2014



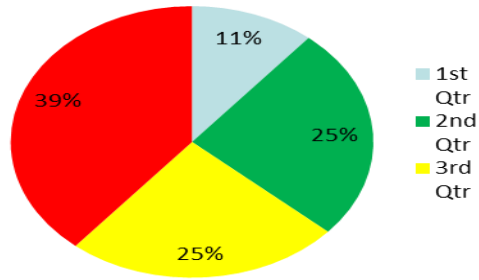
2015



2016

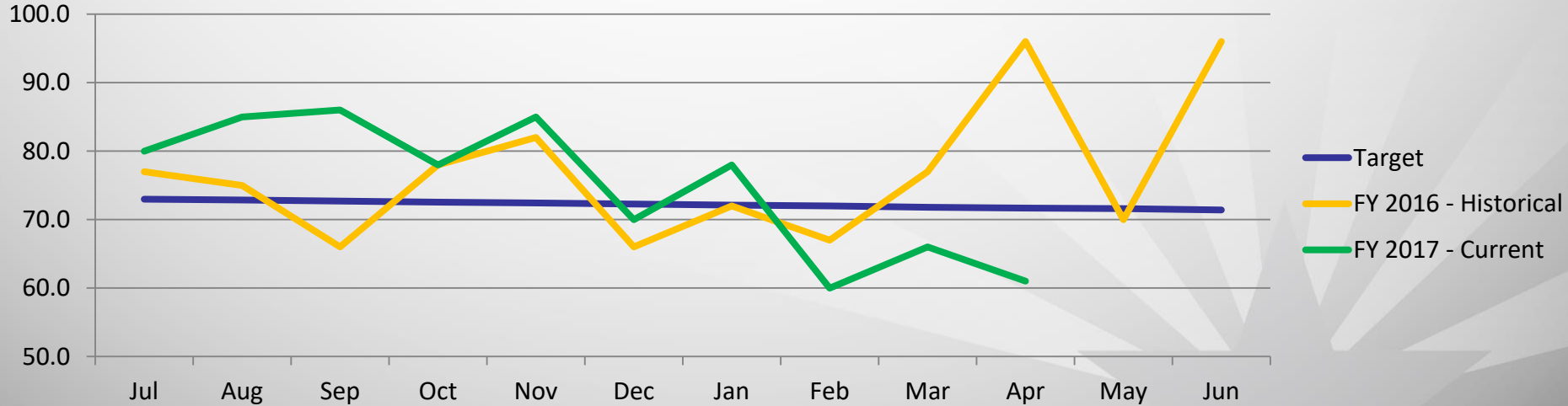


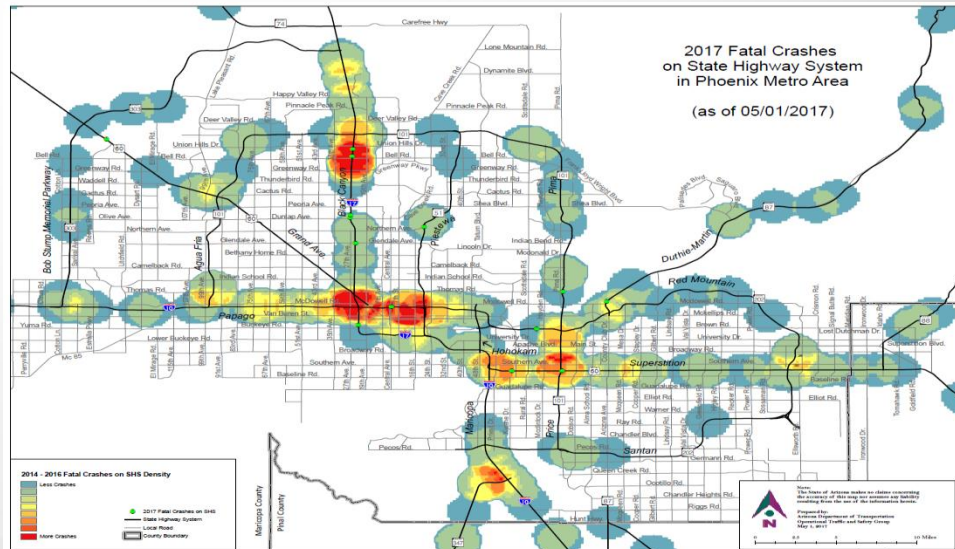
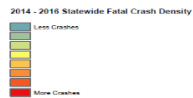
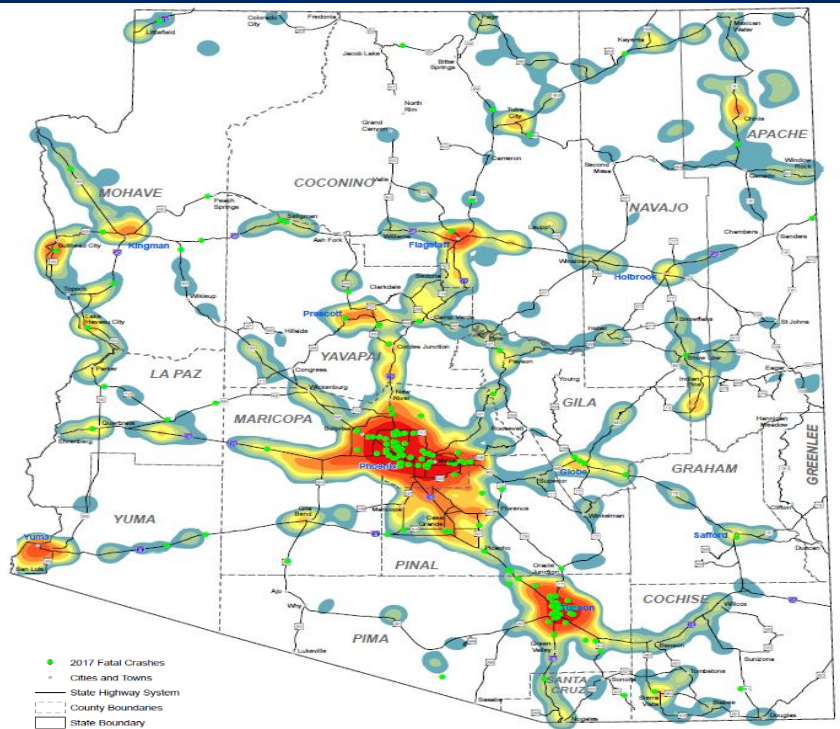
2017



Goal – Reduce Total Fatalities

Fatalities	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Target	73.0	72.8	72.7	72.6	72.4	72.3	72.1	72.0	71.8	71.7	71.6	71.4
FY 2016 - Historical	77	75	66	78	82	66	72	67	77	96	70	96
FY 2017 - Current	80	85	86	78	85	70	78	60	66	61		





Pavement Treatments

2086 miles treated in 2017

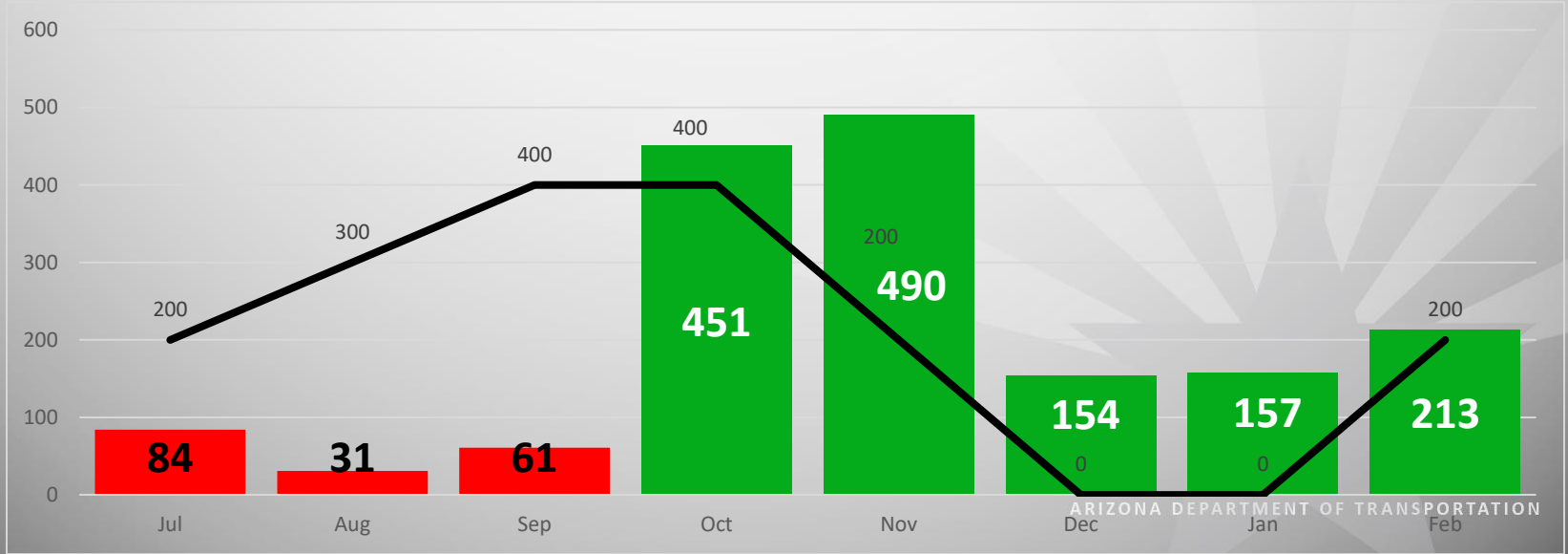
~~3000~~ miles is target for 2018
6000

- Crack Sealing
- Flushes



96% of Target Met

- 1641/1700 Total = 96%
- No Snow – so good Jan & Feb



Thank you