

**Request for Approval of the
2022 – 2026
Five Year Program**

FY

June 18, 2021

Greg Byres, P.E.

Director for Multimodal Planning Division

2022-2026 Program Discussion

Background

Overview of Asset Condition

Tentative 5-Year Highway Delivery Program

MAG: Tentative Program

PAG: Tentative Program

Airport Program

Next Steps

Background

- **Tentative Five Year Program presented to the STB for approval to present for public comment.**
- **Planned public hearings were held in March, April and May.**
- **June 3 Study Session to discuss comments**
- **Requested approval of the Five Year Program scheduled for June 18**
- **July 1, 2021 Starts FY 22**
- **Must be fiscally constrained – STB Five Year Program**

Overview of Asset Condition

ADOT



\$23.5 Billion = Value of State Highway System Infrastructure

ADOT

\$23.5 Billion



Without a commitment to preservation, the system would cost \$300 billion to replace.

Bridge Ratings

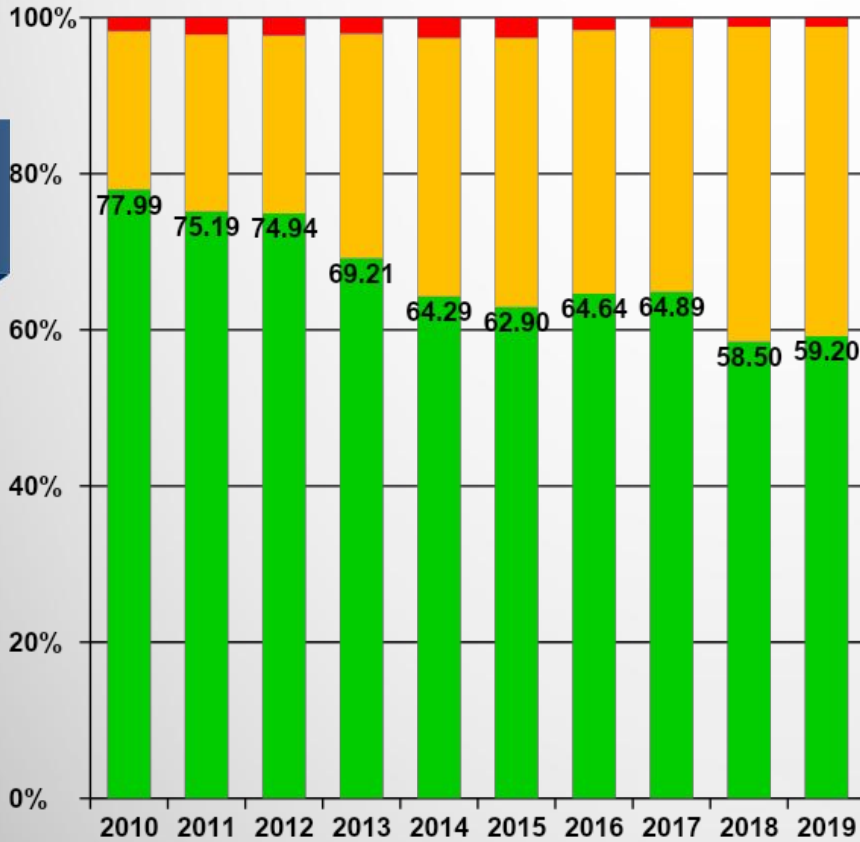
Good: Primary structural components have no problems or only very minor deterioration.

Fair: Primary structural components are sound but have some concrete deterioration or erosion around piers or abutments caused by flowing water (scour).

Poor: Advanced concrete deterioration, scour or seriously affected primary structural components. A poor condition bridge is not unsafe. Unsafe bridges are closed.

ADOT

Bridge Condition

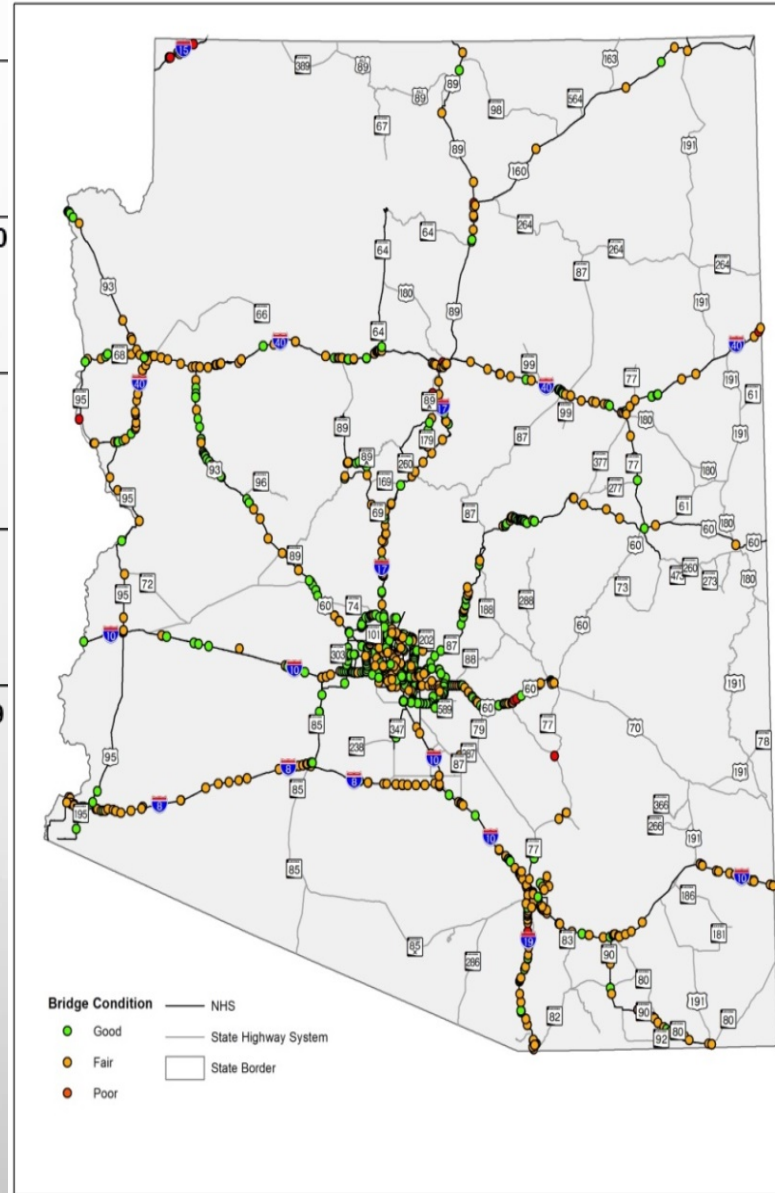


59% Good

2019 Bridge Condition

NHS

- Good
- Fair
- Poor



Pavement Ratings

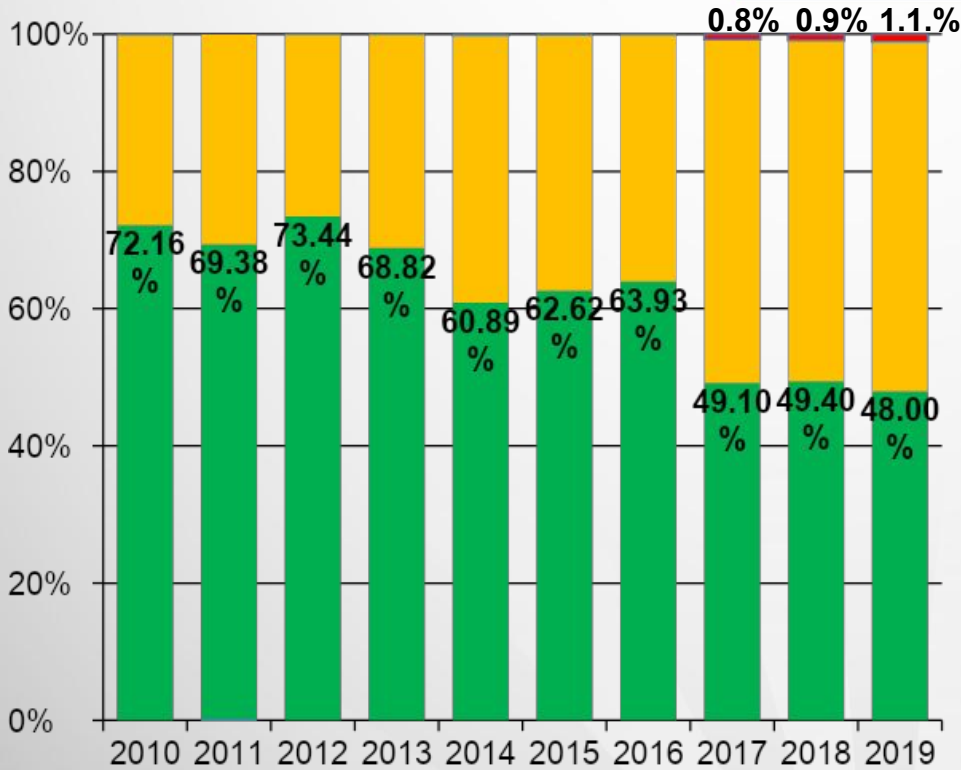
Good – Smooth road surface, with little cracking and no ruts or potholes.

Fair – Moderate amounts of cracking that lead to increased roughness of the road surface. Shallow ruts in the wheel path.

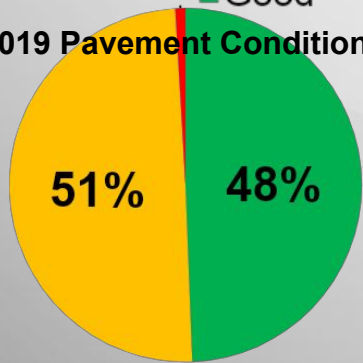
Poor – Numerous cracks, rough road surface, ruts in the wheel path, potholes and disintegration of the road surface.

Pavement Condition: Interstate

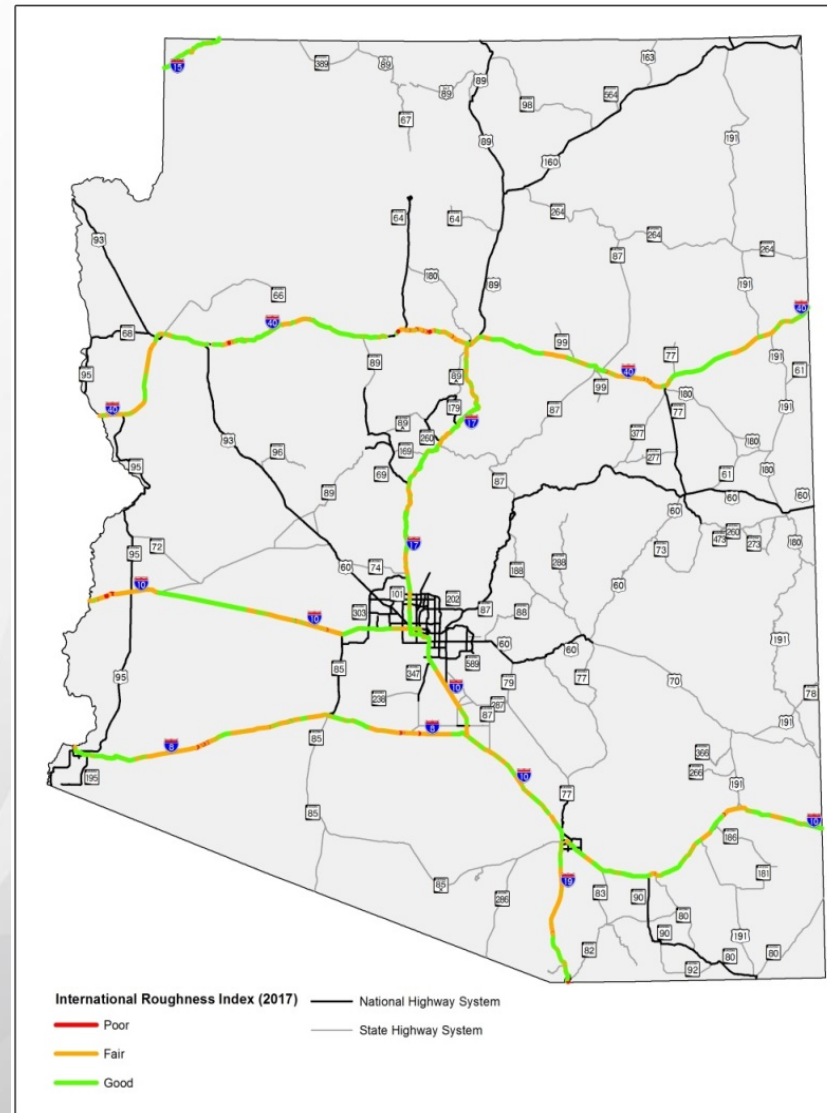
48% Good



2019 Pavement Condition

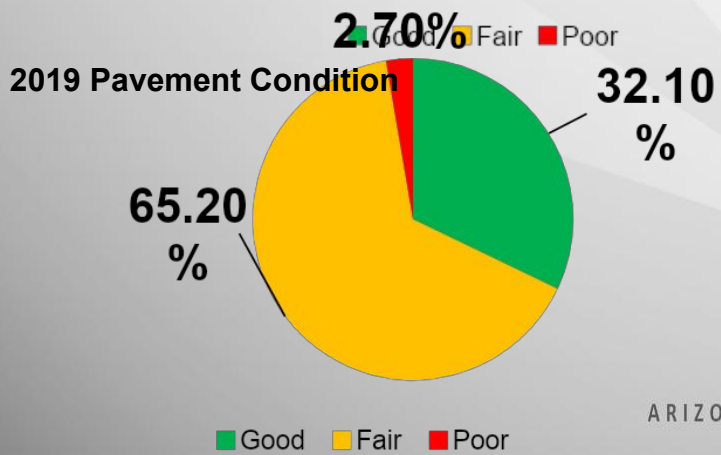
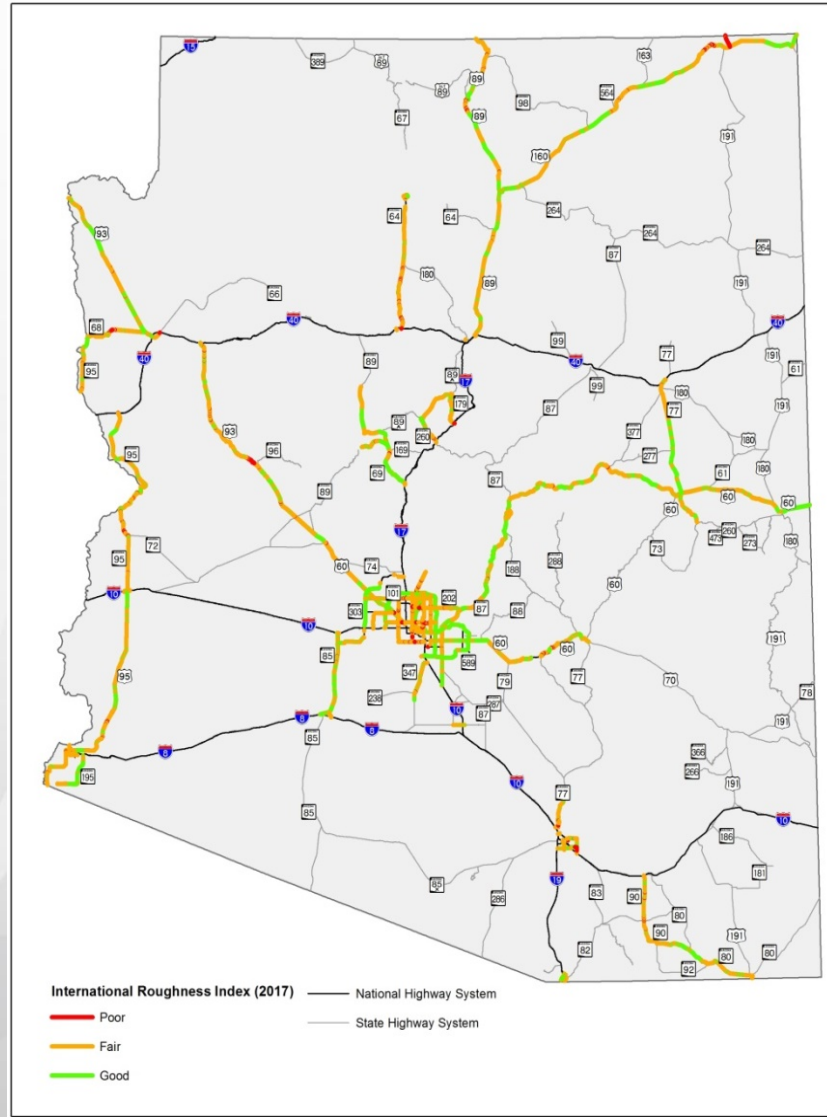
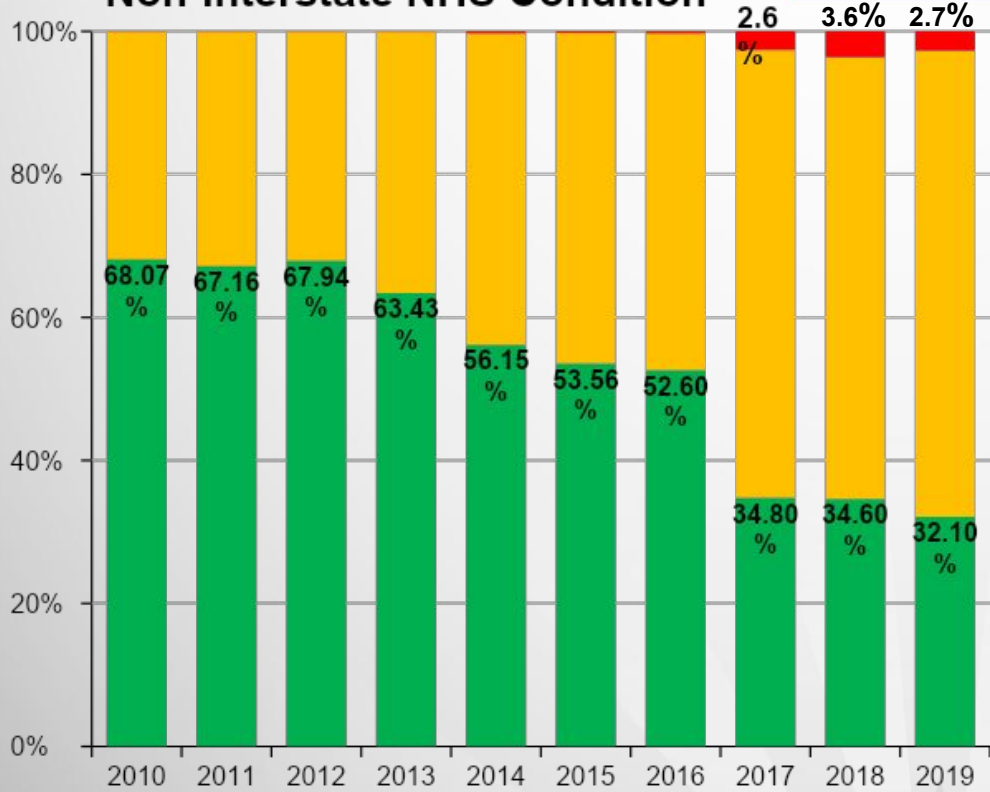


■ Good
 ■ Fair
 ■ Poor



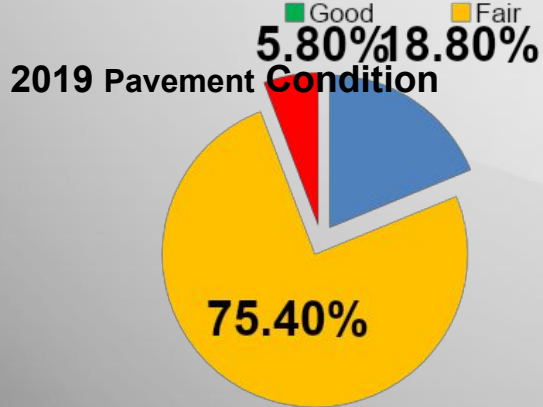
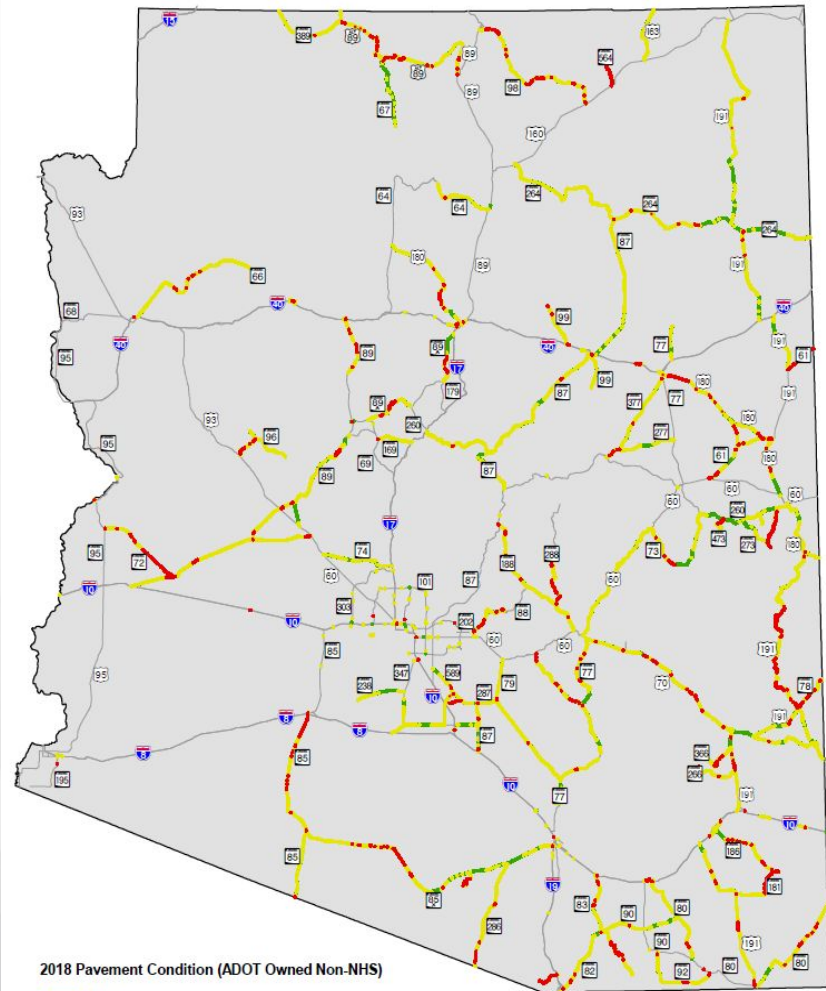
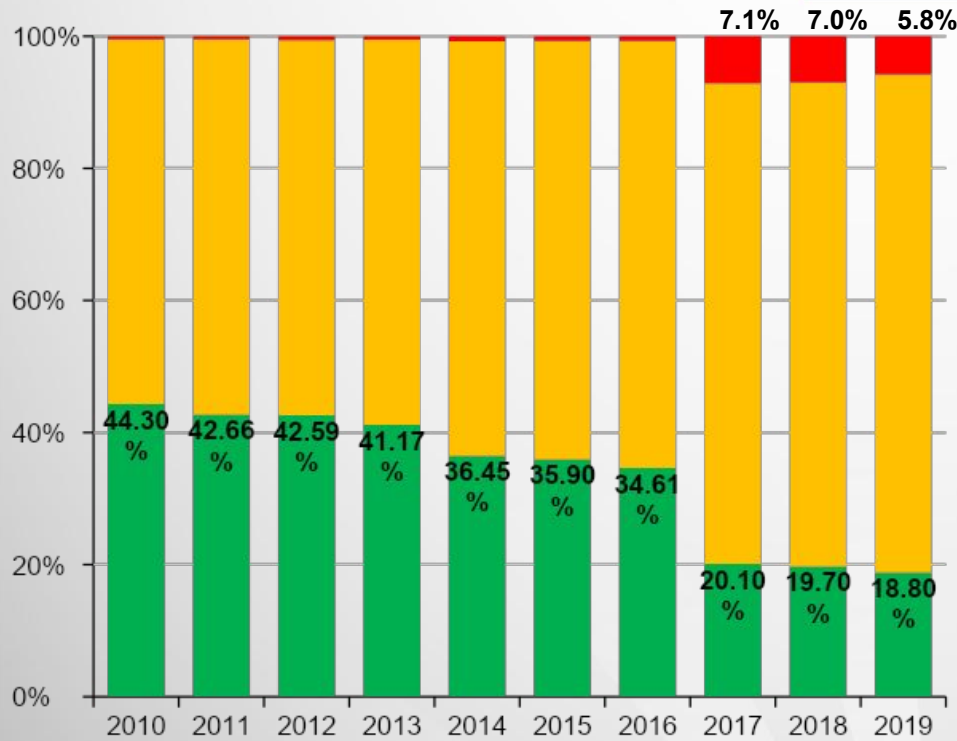
32% Good

Non-Interstate NHS Condition



Pavement Condition: Non-NHS

19% Good



Good Fair Poor

WMYA 2040

Categories of Highway Need/Investment



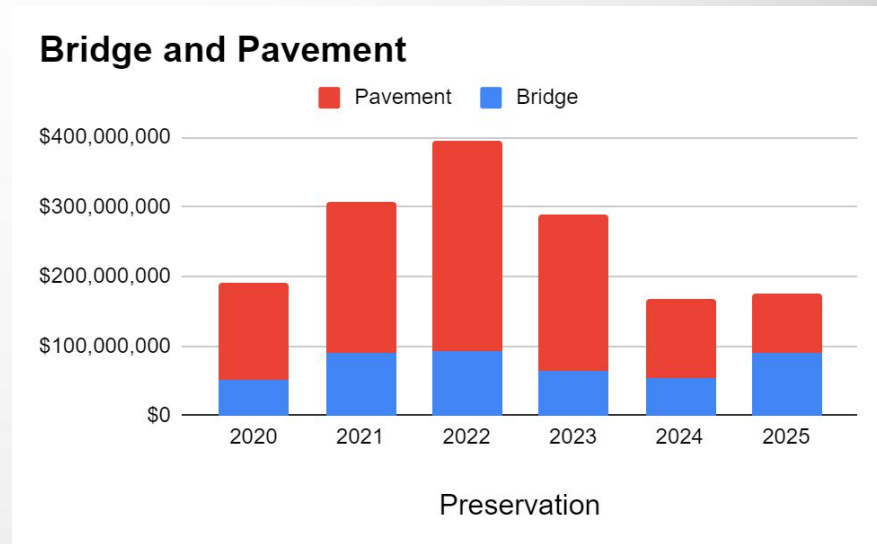
- ▶ ***Preservation:*** Investment to keep pavement smooth and maintain bridges
- ▶ ***Modernization:*** Non-capacity investment that improves safety & operations (e.g. adding shoulders or smart technology)
- ▶ ***Expansion:*** Investment that adds capacity to the highway system (e.g. new roads, added lanes or new interchanges)

Bridge and Pavement Preservation



Maintaining Current Conditions

Combining the Pavement and Bridge preservation values for maintaining current conditions (2019/2018), and adding 15% for development and construction management costs gives the following.



Preservation	2020	2021	2022	2023	2024	2025
Bridge	\$51,622,910	\$89,643,000	\$91,701,000	\$63,750,000	\$53,000,000	\$90,000,000
Pavement	\$139,501,330	\$218,557,644	\$303,663,306	\$226,529,401	\$114,932,798	\$84,799,911
Sub-Total	\$191,124,240	\$308,200,644	\$395,364,306	\$290,279,401	\$167,932,798	\$174,799,911
Development @ 15%	\$28,668,636	\$46,230,097	\$59,304,646	\$43,541,910	\$25,189,920	\$26,219,987
Total	\$219,792,876	\$354,430,741	\$454,668,952	\$333,821,311	\$193,122,718	\$201,019,898

To bring all system roadways into good condition would cost \$4.2 Billion

(Construction cost only, using 2020 unit costs)

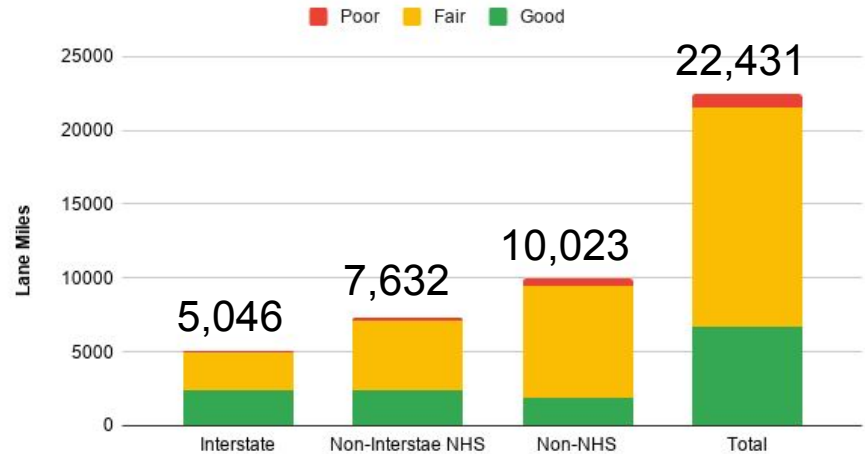


System Pavement Preservation

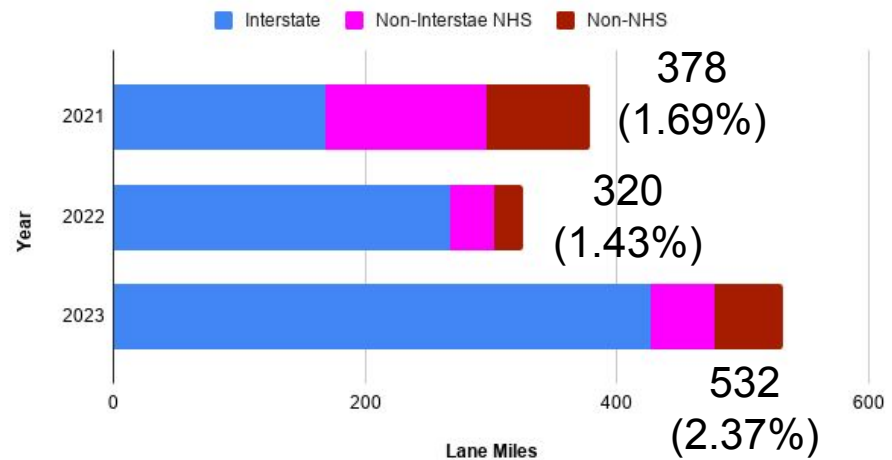
2019 Pavement condition information was extracted from the 2019 HPMS submittal to FHWA.

The Lane Miles represented, consist of projects listed in the tentative 5 Year Program, and do not include sub-program funding. Percentage indicated percent of total system lane miles programmed for preservation.

2019 Pavement Condition by Lane Miles



Programmed Pavement Preservation (2021-2025)

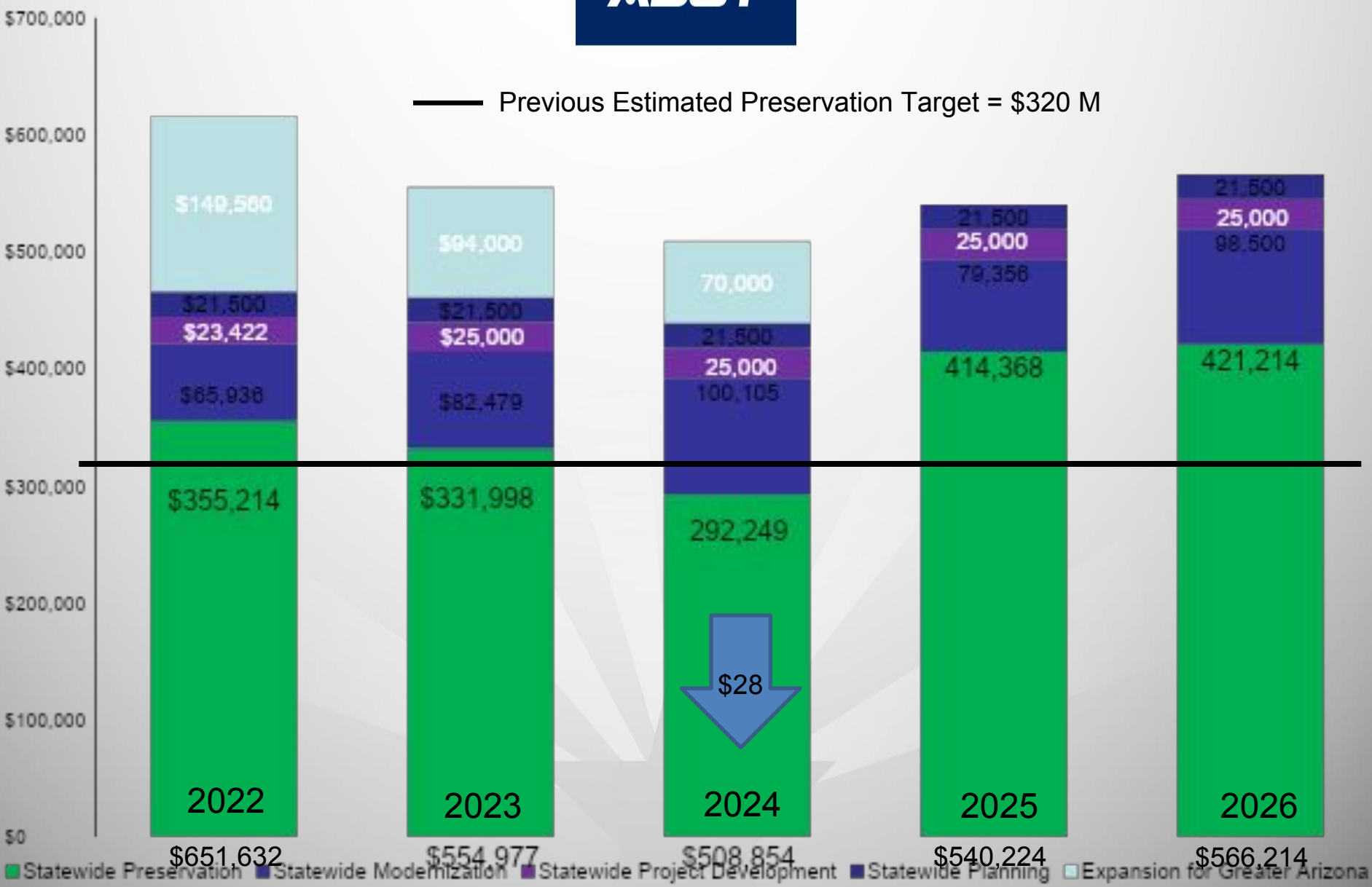


A minimum of 5% per year is needed to maintain existing conditions.

Changes Made to Tentative Program

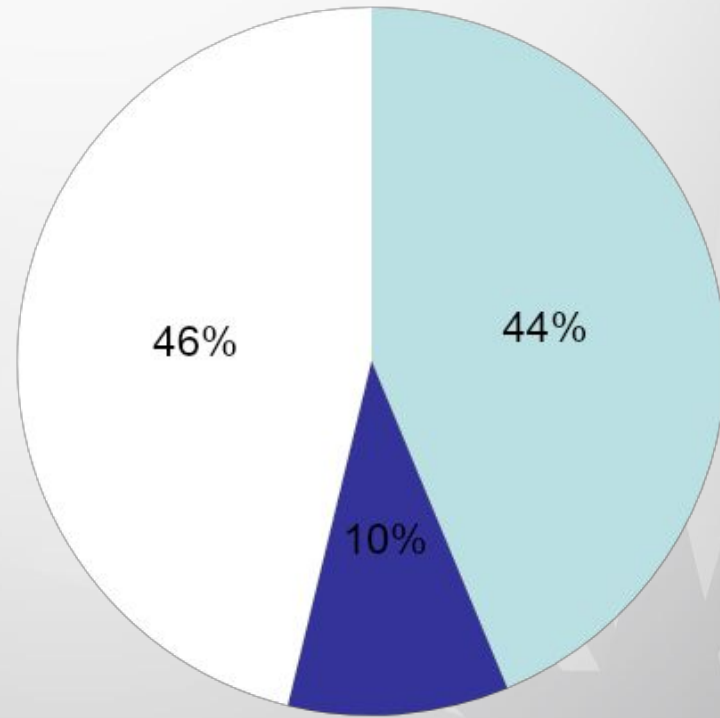
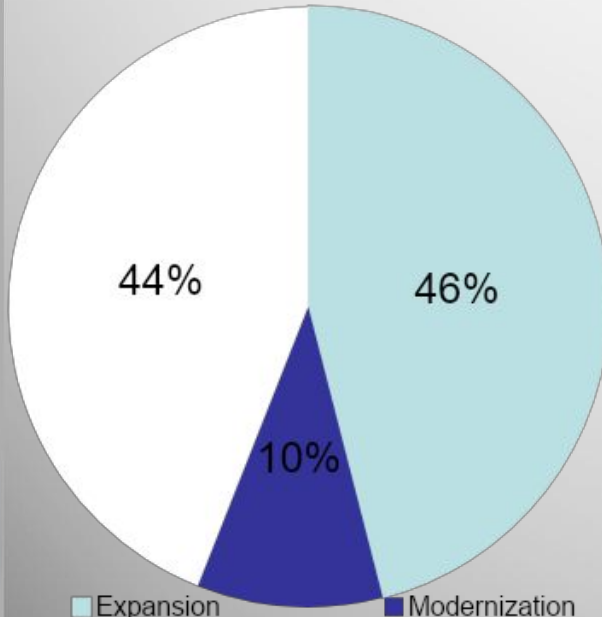
- **Budgeted funding increased due to better than expected revenues and Covid relief funds received by the State.**
- **A number of Life Extension Pavement projects were added to the program with the additional Covid Relief funds and programmed for construction in FY 2022.**
- **The I-10 Gila River Bridge Project was fully budgeted with the additional revenue and programmed for construction in FY 2023.**
- **The US 93 Tegner St – Wickenburg Ranch Way was added back into the program in FY 2022 utilizing the additional revenue.**
- **A new Subprogram was added to the program, “ Smart Highway Technology Investments”. This program is intended to support Information Technology Systems and potential broadband efforts across the state.**
- **Project budgets and delivery dates were adjusted to account for latest cost estimates and construction cost increases, while maintaining fiscal restraint in each year of the program.**

— Previous Estimated Preservation Target = \$320 M



2022-2026 Tentative Facilities Construction Program

2021 -2025 Facilities Construction Program



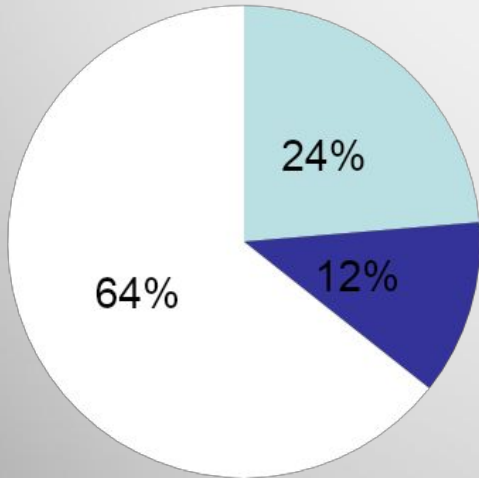
Expansion Modernization Preservation

Expansion Modernization Preservation

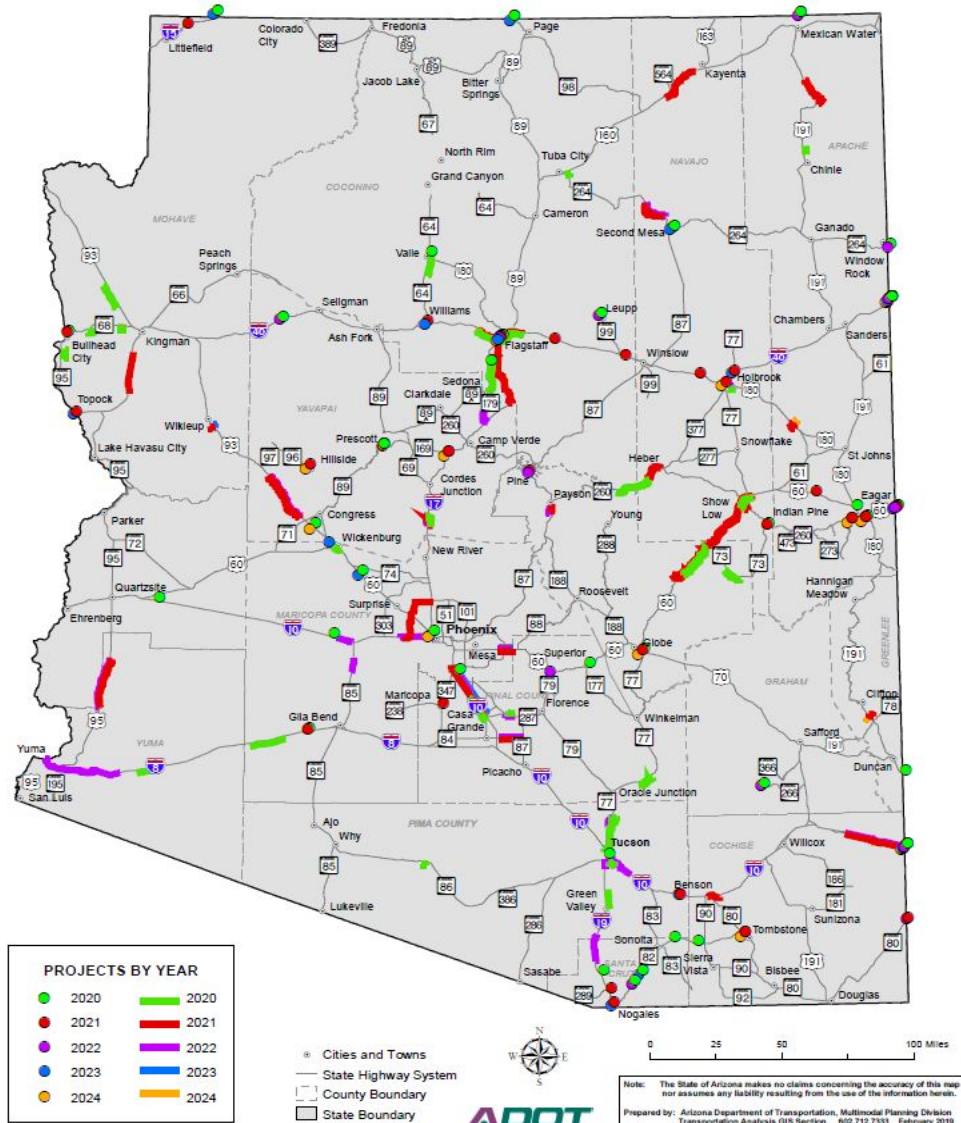
Greater Arizona Tentative 5-Year Highway Delivery Program (FY22-FY26)



Greater Arizona



Expansion Modernization Preservation



FY21 Expansion Construction Projects – \$160.0M

ADOT

\$25 M US-95

\$90 M INFRA I-17

\$46,250

\$21,500

\$23,422

\$76,571

\$336,477

2021

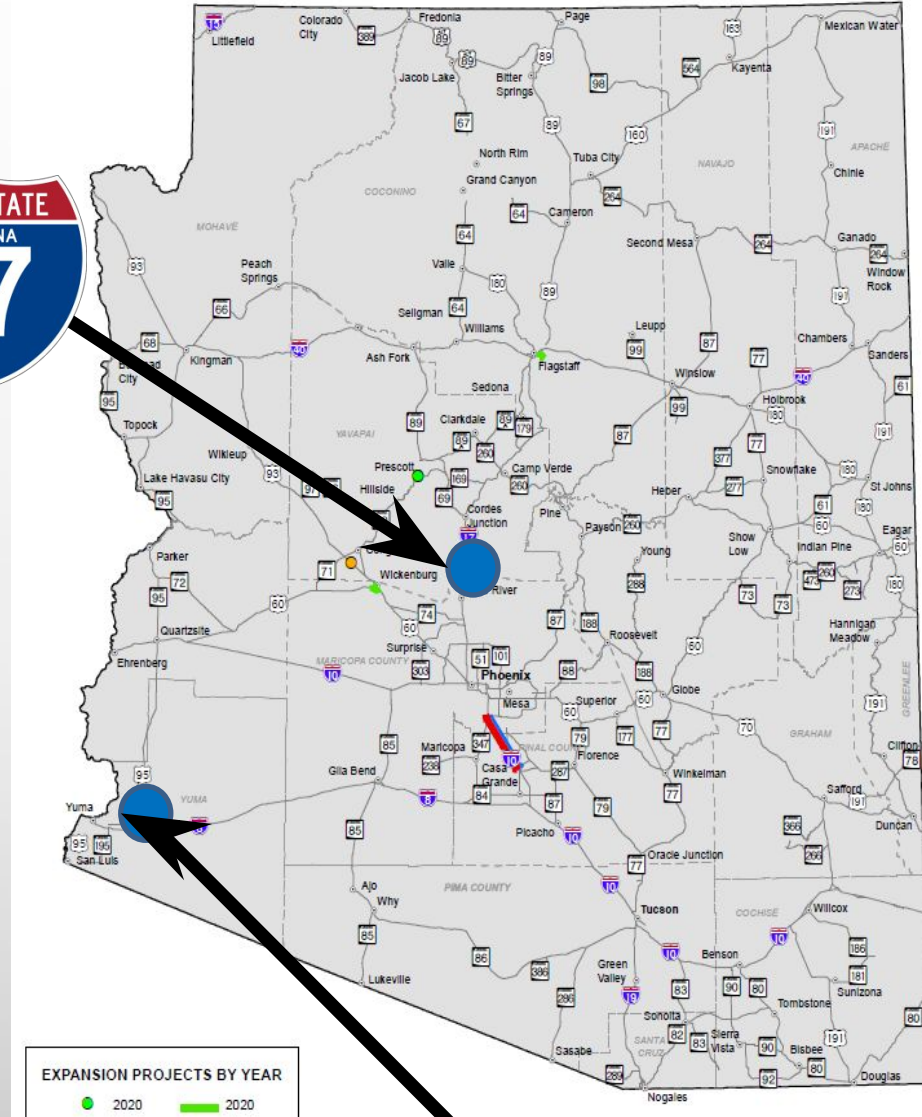
\$135M; I-17 Anthem Way – Cordes Jct.



\$25M; US-95 Ave 9E to Fortuna Wash (Expansion)



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



FY22 Expansion Construction Projects - \$149.6

ADOT

\$149,560

\$21,500

\$23,422

\$65,936

\$355,214

**\$41M; Tegner St –
Wickenburg Ranch
Way**

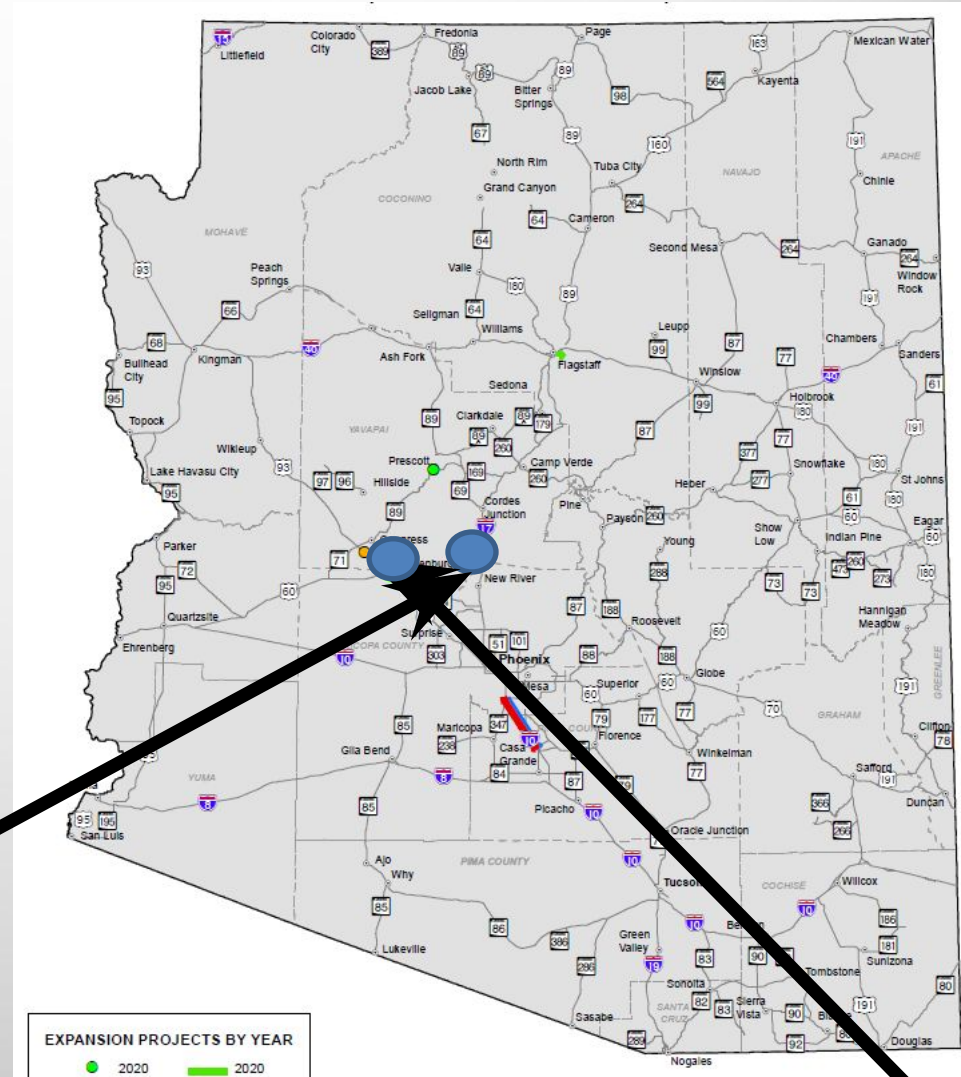


**\$108.6; I-17
Anthem Way –
Cordes Jct.**



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

2022



FY23 Expansion Construction Projects – \$94M

ADOT

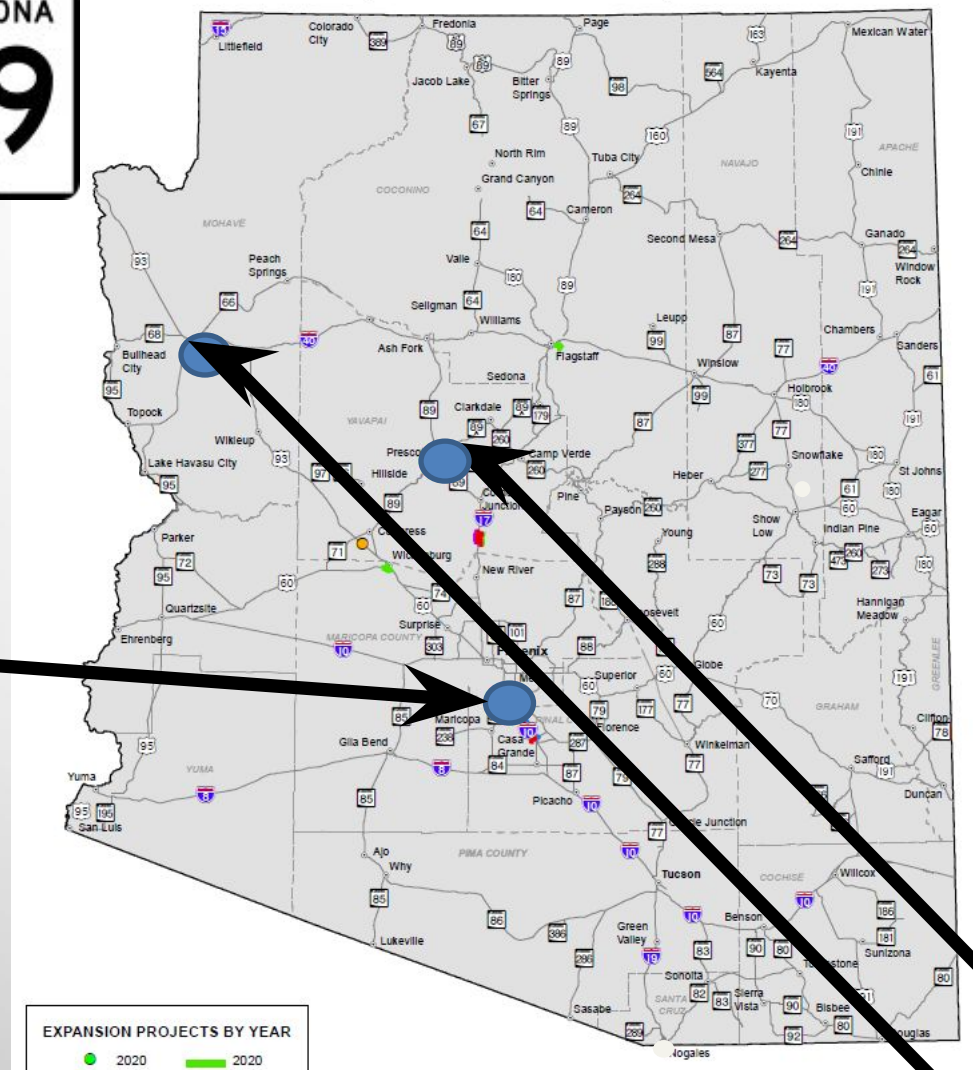
\$10M; Prescott Lakes Parkway – Frontier Village



\$1M; I-40/US-93 West Kingman T.I Right-of-way



\$83M; I-10 Gila River Bridge



\$94,000

\$21,500

\$25,000

\$82,479

\$331,998

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

2023

FY24 Expansion Construction Projects – \$70M

ADOT

\$70,000

\$21,500

\$25,000

\$100,105

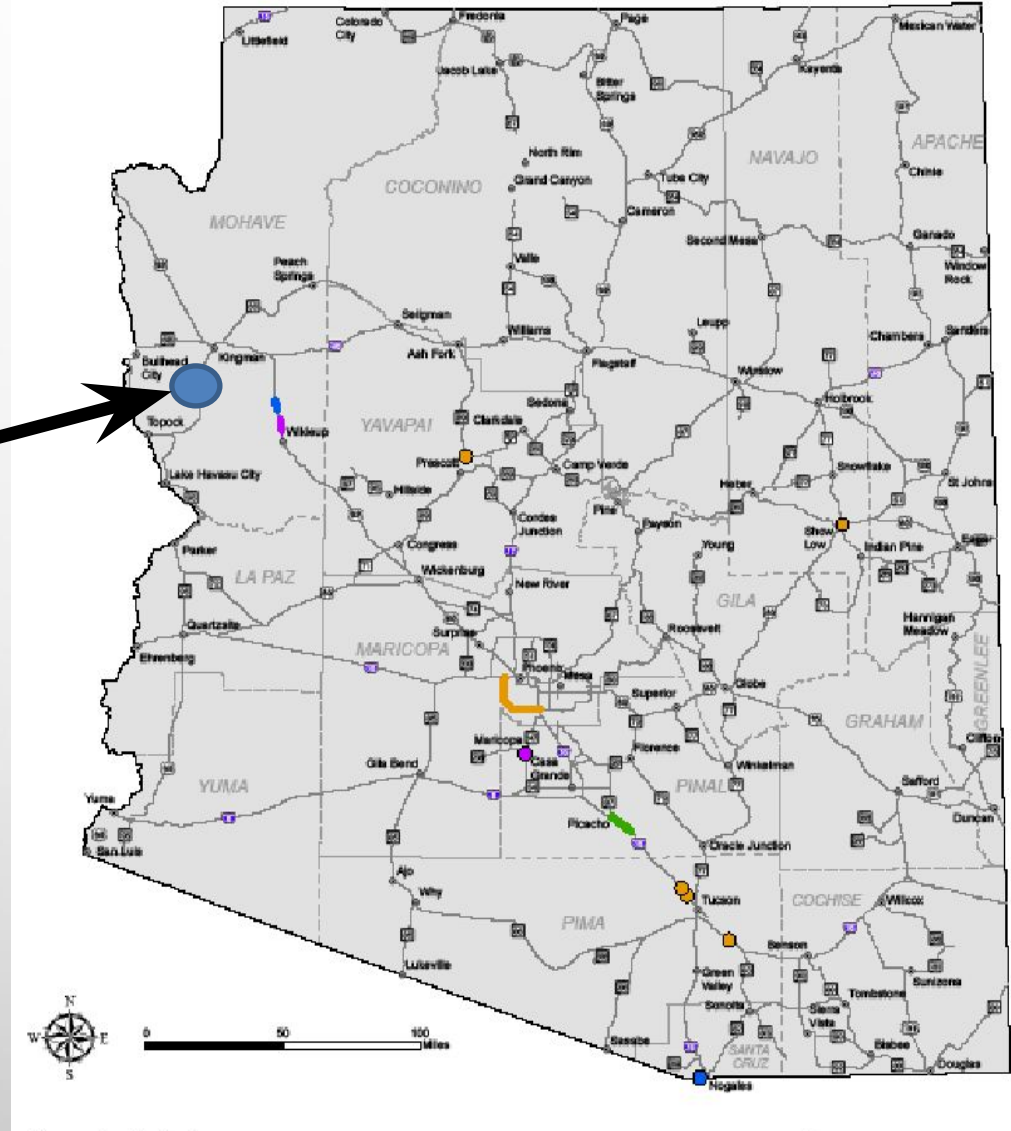
\$292,249

2024



**\$70M; I-40/US-93
West Kingman
T.I**

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



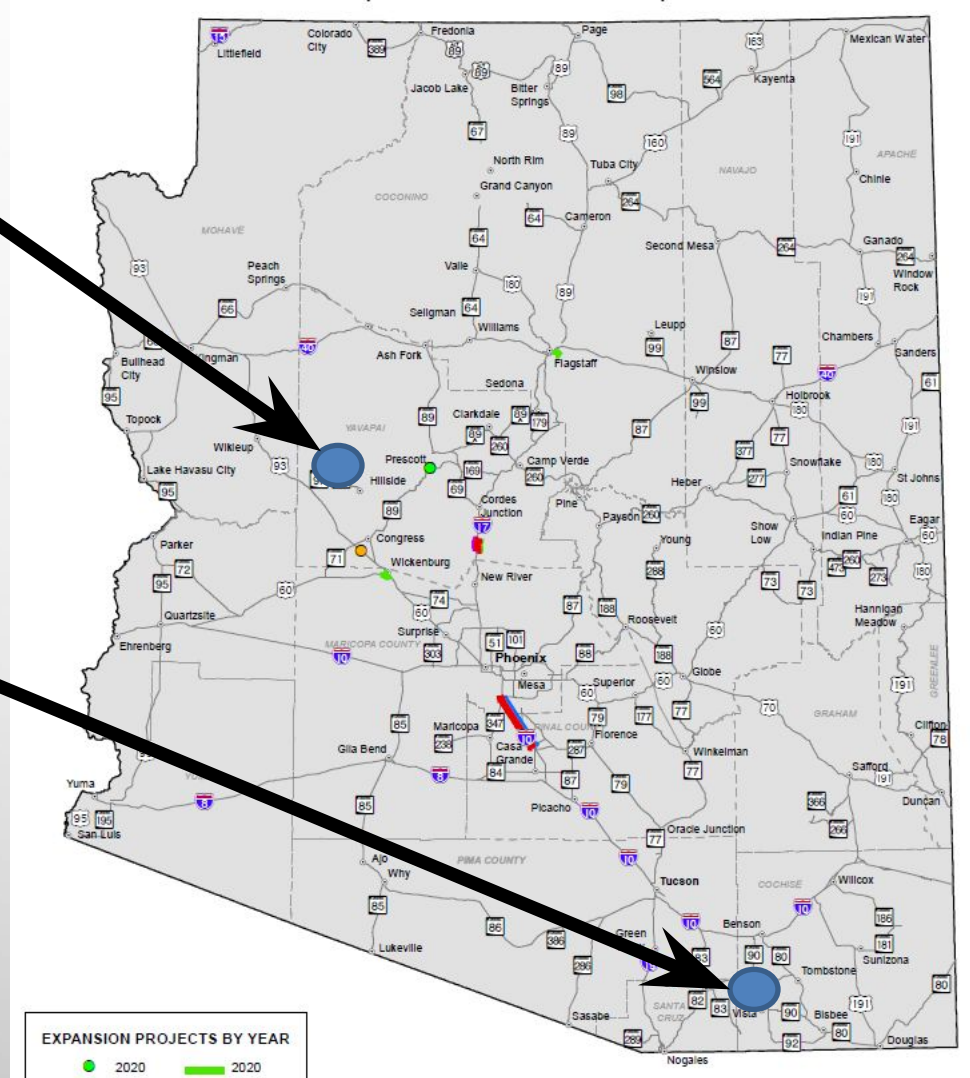
FY 2025 Expansion Construction Projects - \$0M

ADOT

\$7M; Santa Maria River Bridge(Preservation)



\$7M; San Pedro River Bridge (Preservation)



\$21,500
\$25,000

\$79,356

\$414,368

2025

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

EXPANSION PROJECTS BY YEAR
● 2020 ● 2025

FY 2026 Expansion Construction Projects - \$0M

ADOT

\$21,500

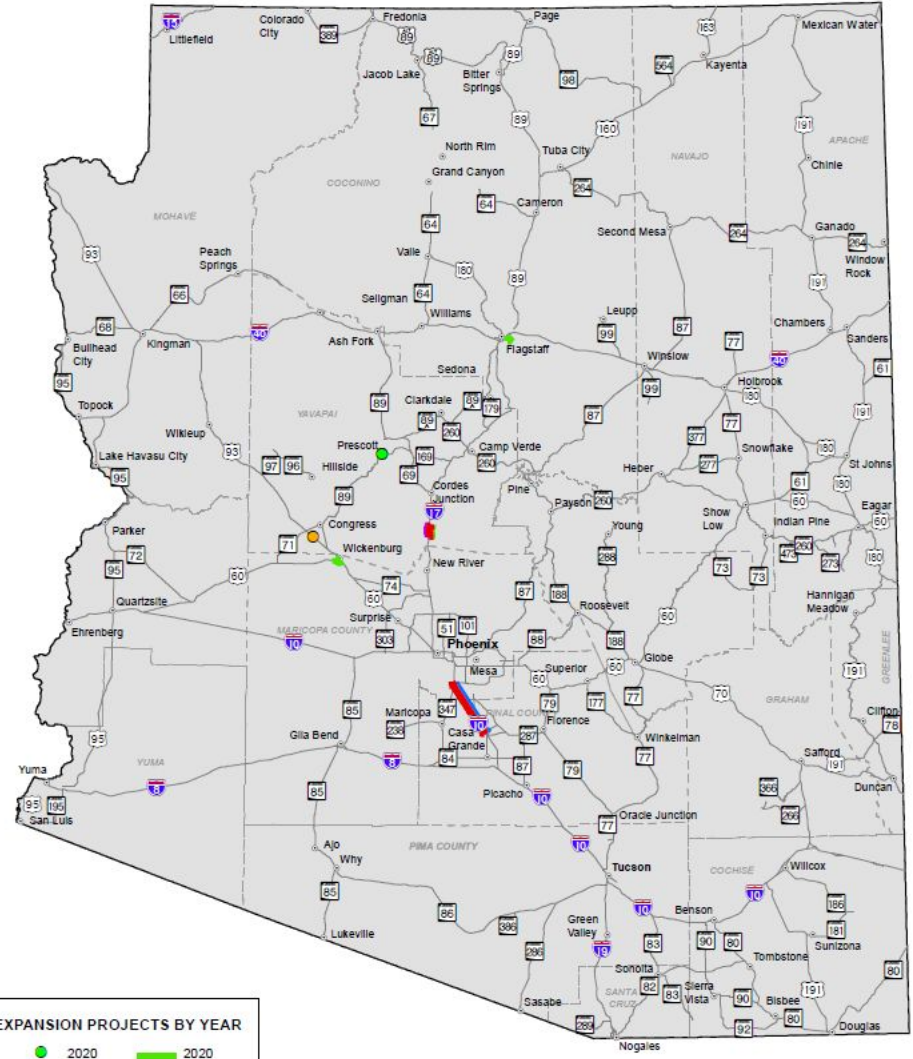
\$25,000

\$98,500

\$421,214

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

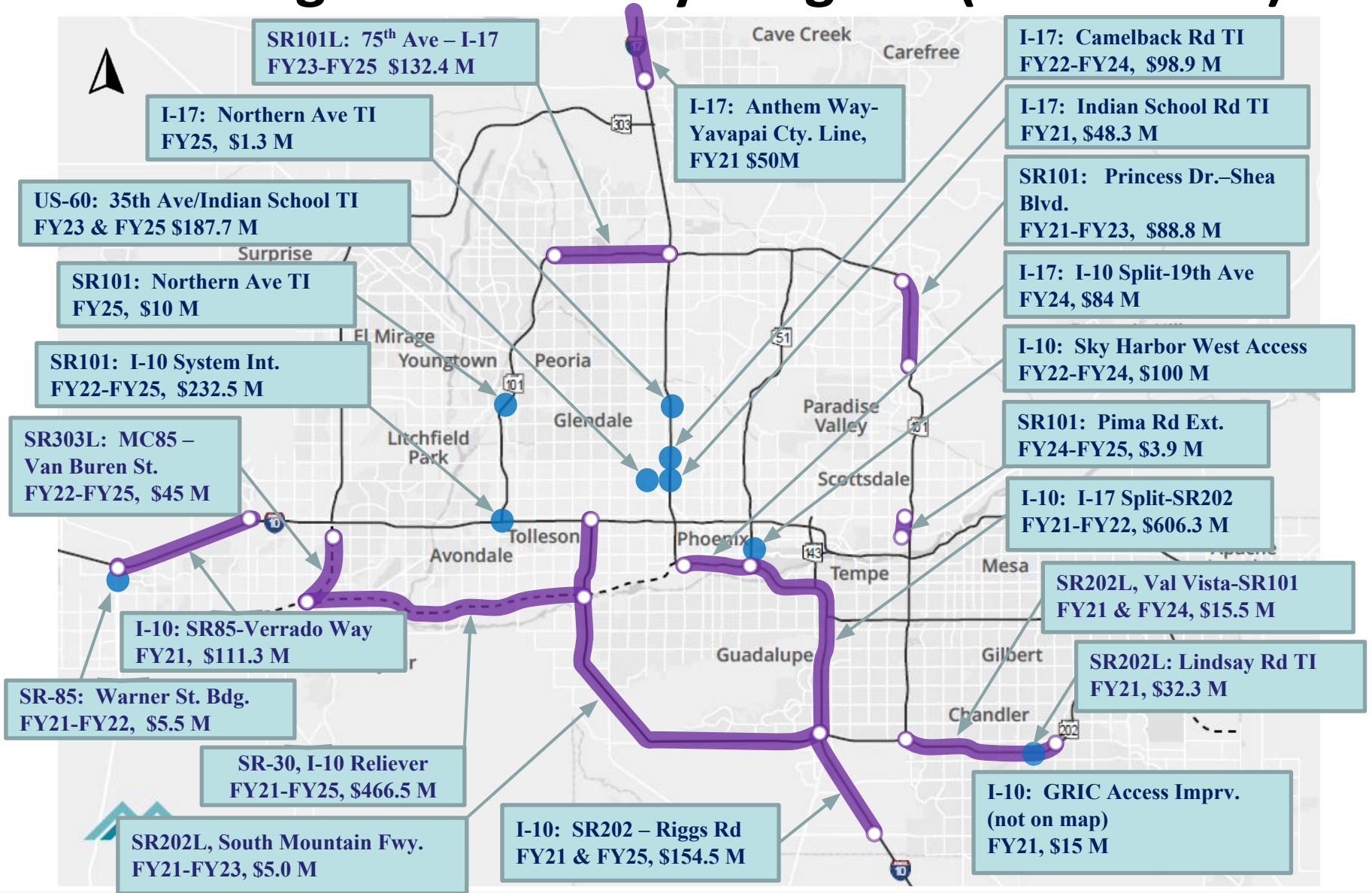
2026



SIX TO TEN YEAR PROGRAM



MAG Regional Freeway Program (FY22- FY26)



Pinal County

Pima County

Tucson Metro Area

Milepost System

PAG Tentative Program (FY22- FY26)

I-10 Ina to Ruthrauff \$109.2M FY 22

SR-77 I-10 – River \$1M FY 21

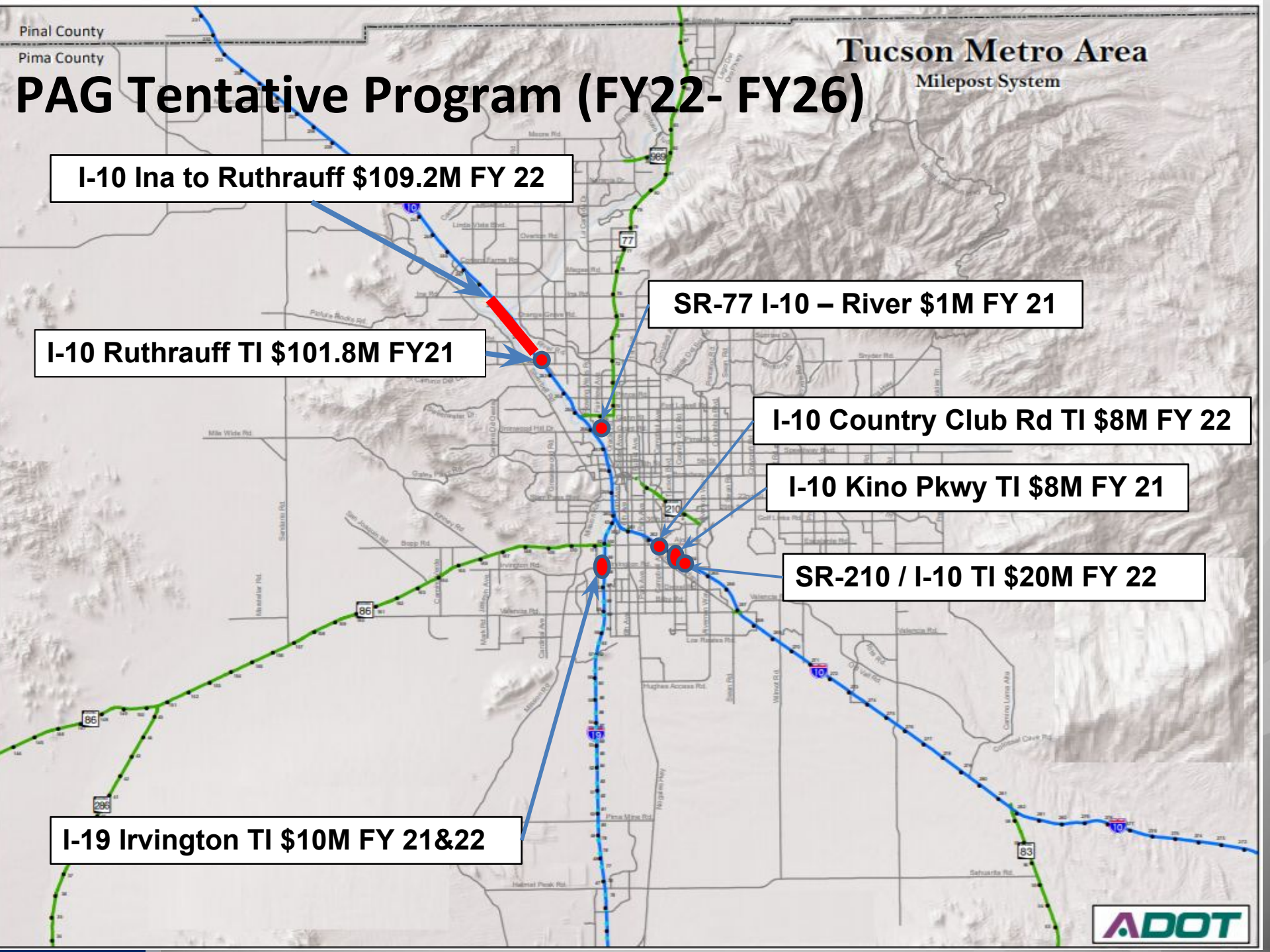
I-10 Ruthrauff TI \$101.8M FY21

I-10 Country Club Rd TI \$8M FY 22

I-10 Kino Pkwy TI \$8M FY 21

SR-210 / I-10 TI \$20M FY 22

I-19 Irvington TI \$10M FY 21&22



2022-2026

Five-Year Transportation
Facilities Construction Program

TENTATIVE

Airport Capital Improvement Program



Airport Capital Improvement Program (ACIP)

Five-Year Development Program – Fiscal Year 2022



Program	Amount
Federal/State/Local match (FSL)	\$0
State/Local (SL)	\$15,000,000
Airport Pavement Preservation (APMS)	\$8,000,000
Airport Development Loans	\$0
Grand Canyon Airport	\$4,000,000
State Planning Services	\$1,000,000
Total Airport Capital Improvement Program	\$28,000,000

Questions?

Motion to approve the 2022-2026 Five Year Transportation Facilities Construction Program.