



2050 Long-Range Transportation Plan



ADOT LRTP Gap Analysis/RIC
Arizona State Transportation Board
June 16, 2023

Purpose

Review data and performance metrics for developing investment choices, based on the FY24-28 Final Program. Get input for the development of a Final Recommended Investment Choice (RIC).

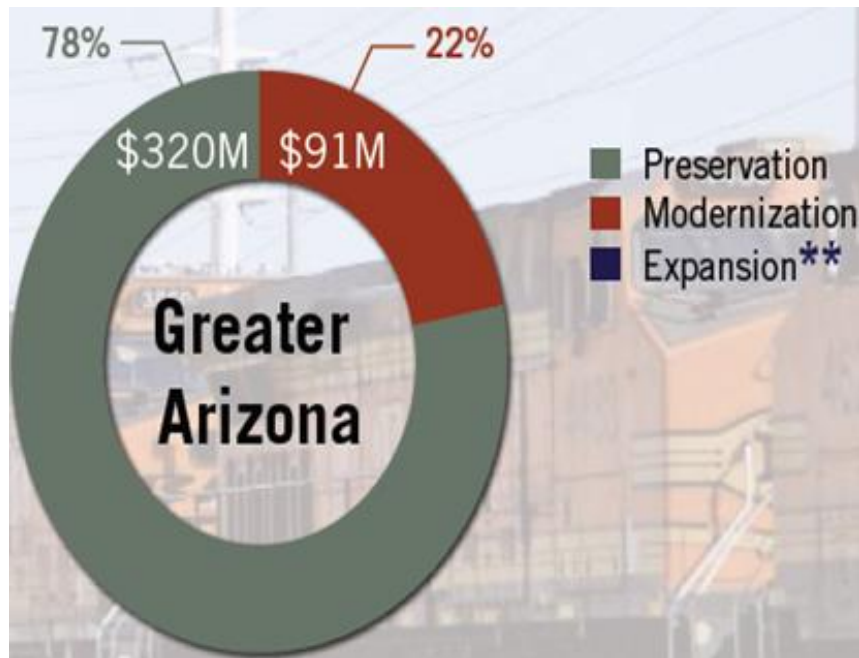


Presentation Agenda

1. Public Survey Input & Meetings (Review)
2. Needs and Revenue (Review)
3. Gap Analysis/Alternative Investment Choices
4. Pavement & Bridge Condition Impacts
5. **Recommended Investment Choice (RIC)**



Greater AZ RIC – 2040 LRTP Update



****Note:** The Department, subject to State Transportation Board approval, may identify up to 5% of RIC funding in a given Five-Year Program year to provide 'seed money' to consider future highway expansion projects under one or more of the following scenarios:

- 1.) A federal grant award is made;
- 2.) A third party provides a funding contribution; and/or
- 3.) A public-private partnership is arranged.

Additional funding from legislative appropriations or other sources may also enable ADOT to consider new system expansion projects.

Public Survey Input & Meetings (Review)



Public Survey

- Conducted Oct. 2022-Jan. 2023
- Sought the public's input on transportation goals and funding priorities
- English and Spanish versions
- Approximately 8k responses from a representative cross-section of Arizonans

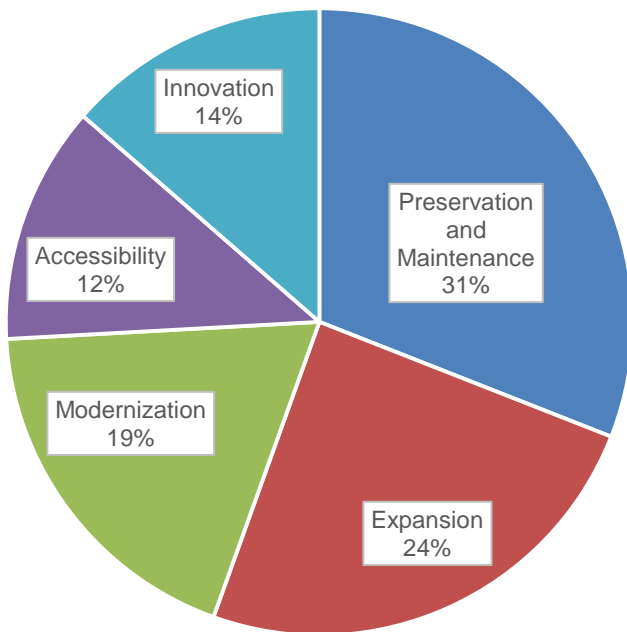


Public Meeting

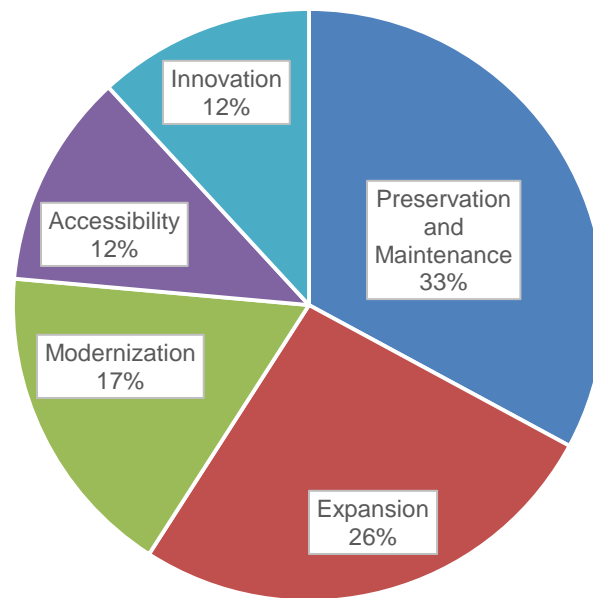
- Purpose: to provide information on the vision, goals, needs, revenue and budget forecast for the draft LRTP and collect feedback
- Public comment period: February 28 – March 31, 2023
 - Approximately 300 comments were collected via the in-person and virtual meetings, website and project email



Transportation Spending
All Respondents



Transportation Spending
Respondents Not in Maricopa or Pima
County



Needs and Revenue (Review)





ADOT INFRASTRUCTURE

State Highway System (SHS)	National Highway System (NHS)
	Non-NHS Facilities
Other Facilities	State Ports of Entry
	Rest Areas/ Truck Parking along SHS
	Grand Canyon Airport



ADOT STEWARDSHIP

Public transit funding	Aviation infrastructure funding
Statewide planning funding	HSIP, CMAQ, and TA funding
Passenger rail funding	Non-NHS bridge inspections and funding
EV charging and CRP funding	Public at-grade highway-rail crossings safety funding



COMPLEMENTARY TRANSPORTATION SYSTEMS

Transportation Infrastructure		
Municipal		County
Federal	Tribal	Private
Phoenix and Tucson Public Transit Systems		
Private Transit Systems		Private Rail Facilities
Public and Private Airports		Federal Ports of Entry

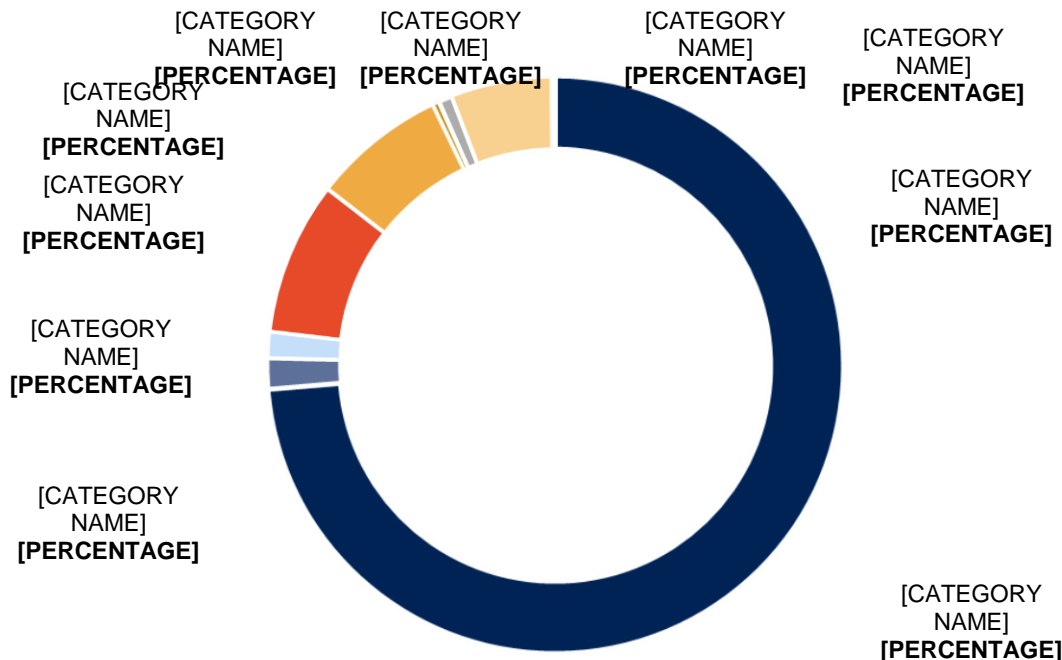


Multimodal Needs Analysis

Future Needs (2026-2050)

- ADOT Infrastructure: \$174 Billion
- ADOT Stewardship: \$57 Billion
- Complementary Transportation System: Not Included

Total of \$231 Billion



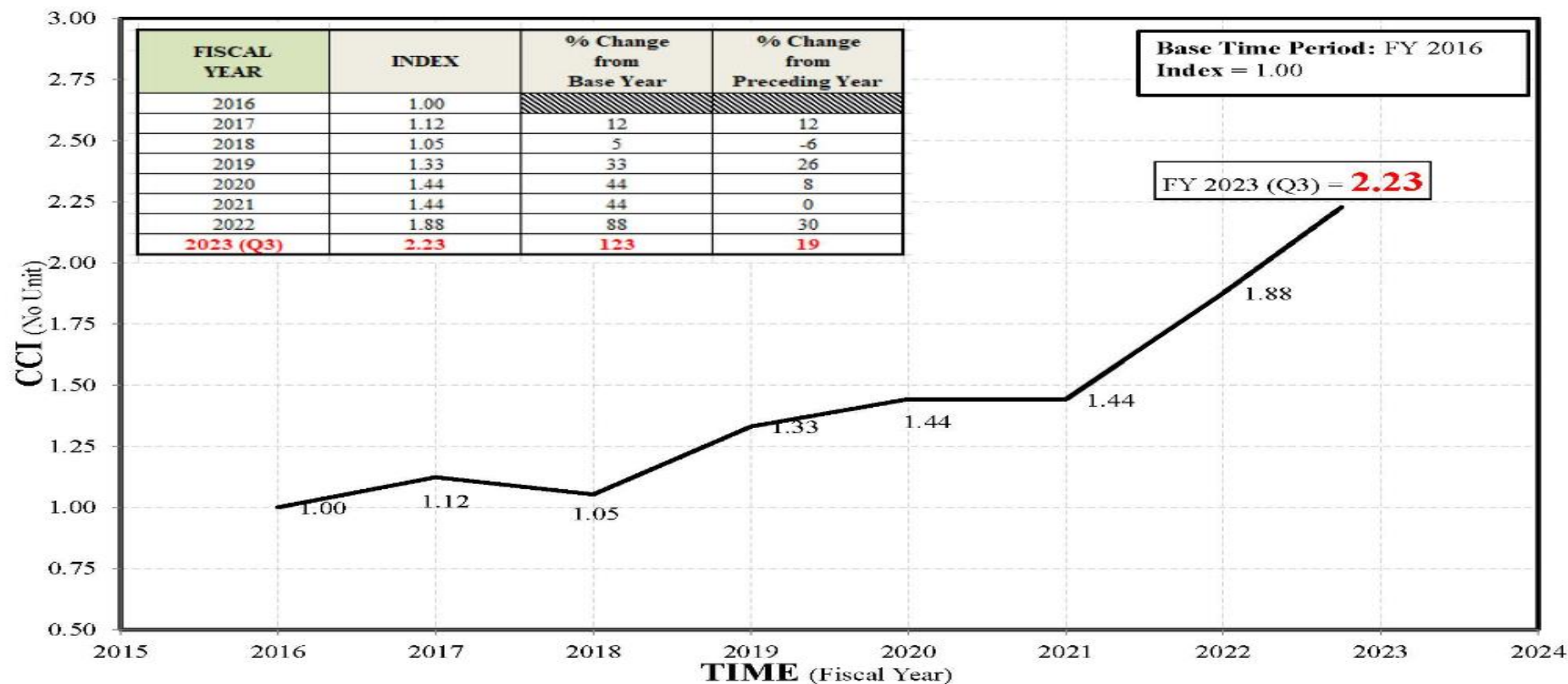
ADOT Funding Sources

- Highway User Revenue Fund (HURF)
 - Gas & Diesel use taxes
 - Motor carrier taxes
 - MVD registration and other fees
- Federal Aid Highway Program
- Regional Area Road Fund (RARF)
 - Voter-approved sales tax in Maricopa County for transportation – expires 12/31/25
- Infrastructure Investment & Jobs Act/Bipartisan Infrastructure Act (IIJA/BIL)



CONSTRUCTION COST INDEX

(Posting Date: 05/01/2023)



Revenue Analysis

ALTERNATIVE FORECAST LOW	BASE FORECAST	ALTERNATIVE FORECAST HIGH
Assumes: - Funding of HURF gas tax at current levels - Expiration of RARF in 2026 - Return to lower federal funding levels after expiration of IIJA/BIL	Assumes: - Funding of HURF gas tax at current levels - Extension of RARF tax in Maricopa County beyond Proposition 400 - Assuming current federal authorization levels with the IIJA/BIL federal funding	Assumes: - Funding of HURF gas tax at current levels - Extension of RARF tax in Maricopa County beyond Proposition 400 - \$200 million increase per year with the IIJA/BIL federal funding



HURF: Highway User Revenue Fund

RARF: Regional Area Road Fund

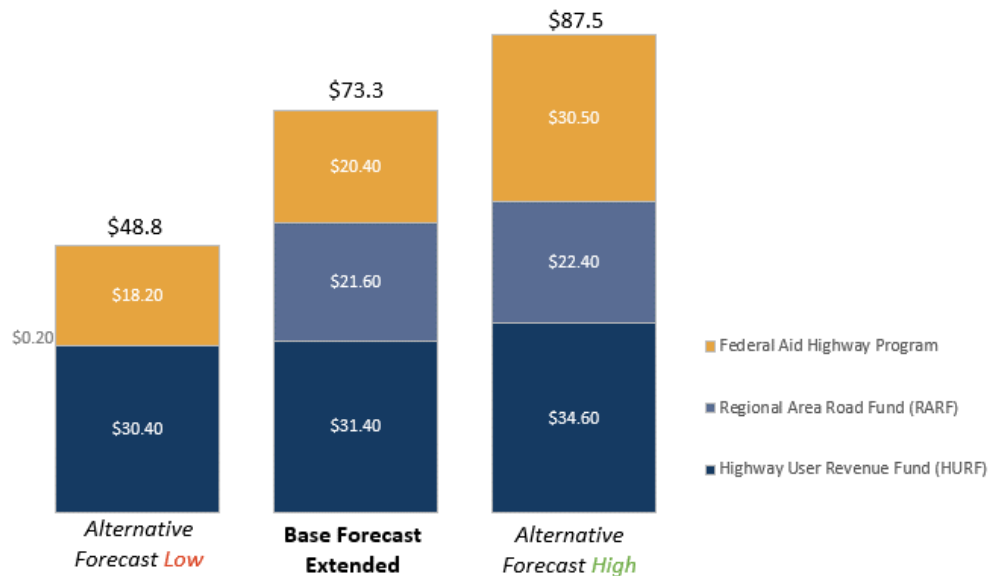
IIJA/BIL: Infrastructure Investment and Jobs Act/Bipartisan Infrastructure Act



Revenue Analysis

Total Value for Fiscal Years 2026-2050

In Billions



Gap Overview – Base Forecast Extended

- \$231 B of Need vs Revenue of \$73.3 B
- **Funding Gap: \$157.7B (2026-2050 period)**
- Much of Revenue is already allocated
 - Federal specific programs (HSIP, CMAQ, Bridge, etc)
 - HURF use for ADOT operations
- **Revenue flexibility (choice) is \$32.4 B**

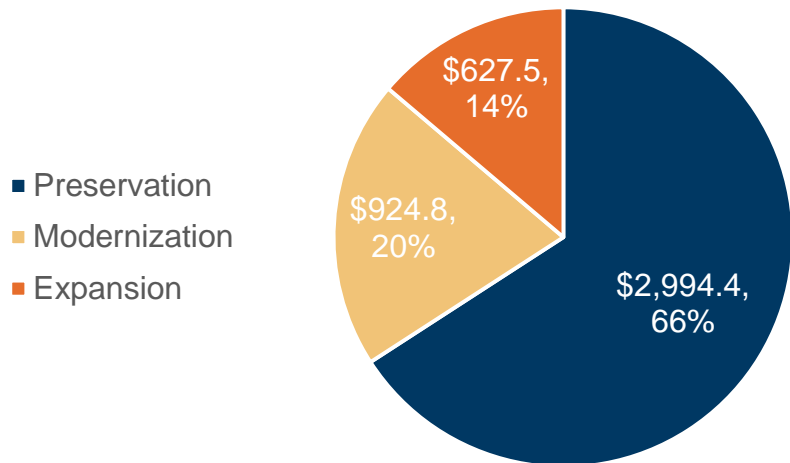


Gap Analysis/Alternative Investment Choices



FY24-28 Final Program – Greater AZ

Statewide



- Represents the Investment Choice Breakdown for the 2024-2028 Final Program for Greater Arizona (excludes MAG and PAG)



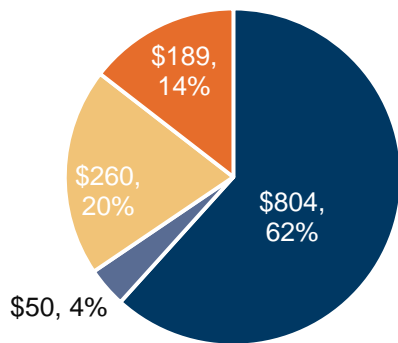
- FY24-28 Final Program Investment Choice (14%)
 - Assumes 14% in expansion and 20% in modernization from (2026-2050) in Greater Arizona.

- Alternative Investment Choice (11%)
 - Assumes 14% in expansion and 20% in modernization in Greater Arizona from (2026-2030), with a decrease to 10% in expansion and 14% in modernization from (2031-2050), resulting in a total Expansion Choice of **11%**.

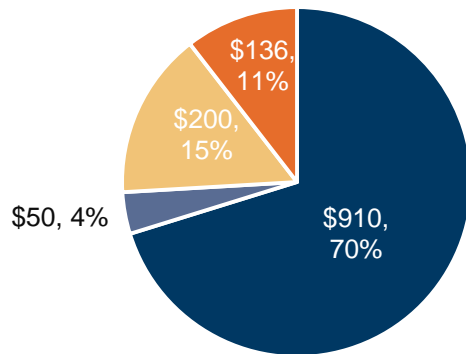
- Alternative Investment Choice (7%)
 - Assumes 14% in expansion and 20% in modernization in Greater Arizona from (2026-2030), with a decrease to 5% in expansion and 14% in modernization from (2031-2050), resulting in a total Expansion Choice of **7%**.

Average Annual Expenditures

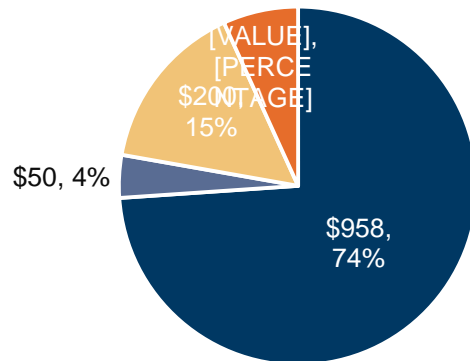
FY24-28 Final
Program Investment
Choice (14%)



Alternative Investment
Choice (11%)



Alternative Investment
Choice (7%)



■ Preservation
 ■ Life Cycle Extension
 ■ Modernization
 ■ Expansion



Investment Choices (Greater Arizona)

0% Expansion Baseline	<ul style="list-style-type: none"> • 86% Preservation (\$27.8 B, meets 39% of need) • 14% Modernization (\$4.7 B, meets 33% of need) • 0% Expansion
FY24-28 Final Program Investment Choice (14%)	<ul style="list-style-type: none"> • 66% Preservation (\$21.2 B, meets 29% of need) • 20% Modernization (\$6.5 B, meets 46% of need) • 14% Expansion (\$4.7 B, meets 69% of Greater AZ need)
Alternative Investment Choice (11%)	<ul style="list-style-type: none"> • 74% Preservation (\$24 B, meets 33% of need) • 15% Modernization (\$5.0 B, meets 36% of need) • 11% Expansion (\$3.4 B, meets 50% of Greater AZ need)
Alternative Investment Choice (7%)	<ul style="list-style-type: none"> • 78% Preservation (\$25.2 B, meets 35% of need) • 15% Modernization (\$5.0 B, meets 36% of need) • 7% Expansion (\$2.2 B, meets 32% Greater AZ need)

*Utilizing Baseline Forecast Numbers



Pavement & Bridge Condition Impacts





- **Alternative Investment Choice (7%)**

\$20.8 B in Pavement, \$4.3 B in Bridge

- 23% Pavement in Poor Condition
- 2.8% Bridges in Poor Condition

- **Alternative Investment Choice (11%)**

\$19.9 B in Pavement, \$4.1 B in Bridge

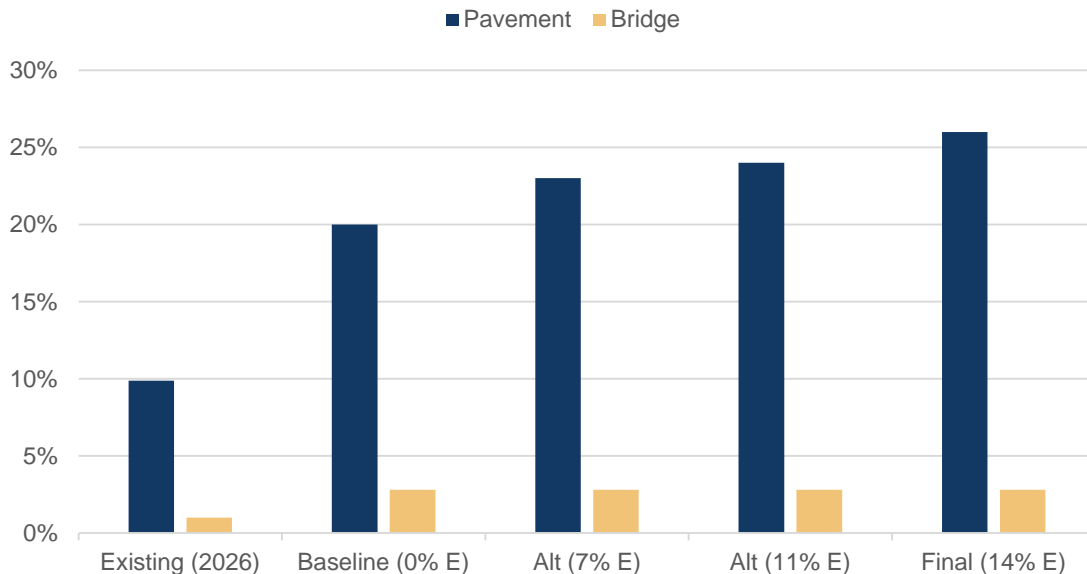
- 24% Pavement in Poor Condition
- 2.8% Bridges in Poor Condition

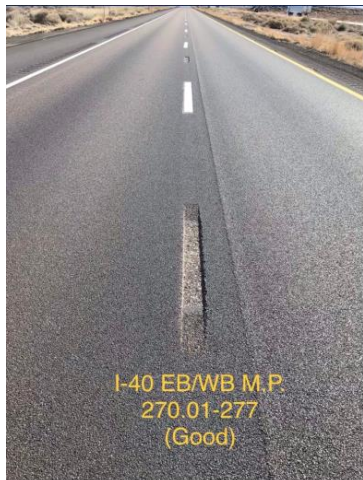
- **FY24-28 Final Program Investment Choice (14%)**

\$17.2 B in Pavement, \$3.9 B in Bridge

- 26% Pavement in Poor Condition
- 2.8% Bridges in Poor Condition

Pavement and Bridge in Poor Condition





- **Alternative Investment Choice (7%)**

\$20.8 B in Pavement, \$4.3 B in Bridge

- 26% Pavement in Good Condition
- 36.2% Bridges in Good Condition

- **Alternative Investment Choice (11%)**

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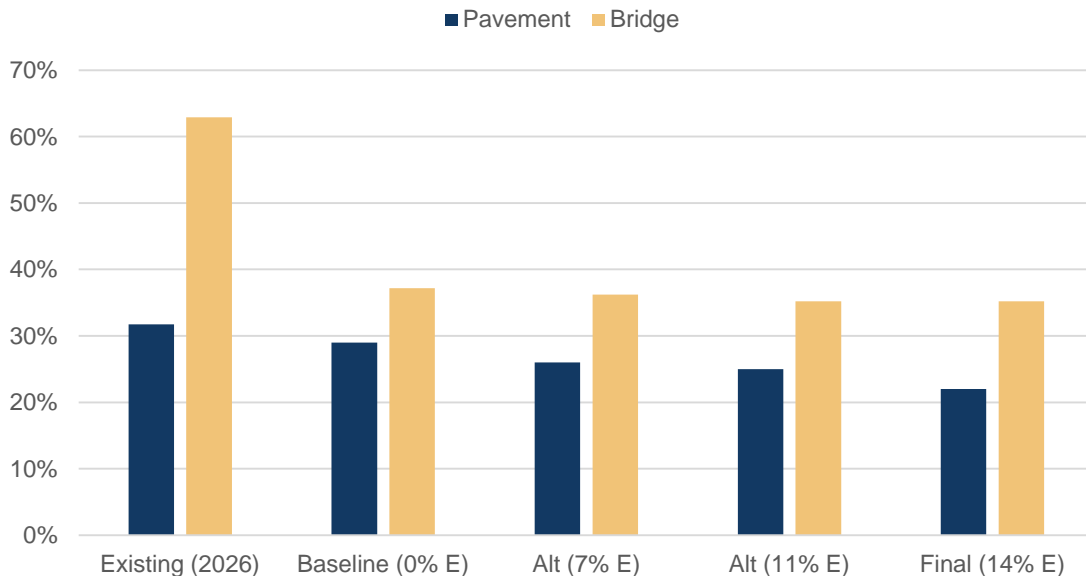
- 25% Pavement in Good Condition
- 35.2% Bridges in Good Condition

- **FY24-28 Final Program Investment Choice (14%)**

\$17.2 B in Pavement, \$3.9 B in Bridge

- 22% Pavement in Good Condition
- 35.2% Bridges in Good Condition

Pavement and Bridge in Good Condition





- **Alternative Investment Choice (7%)**

\$20.8 B in Pavement, \$4.3 B in Bridge

- 51% Pavement in Fair Condition
- 61% Bridges in Fair Condition

- **Alternative Investment Choice (11%)**

\$19.9 B in Pavement, \$4.1 B in Bridge

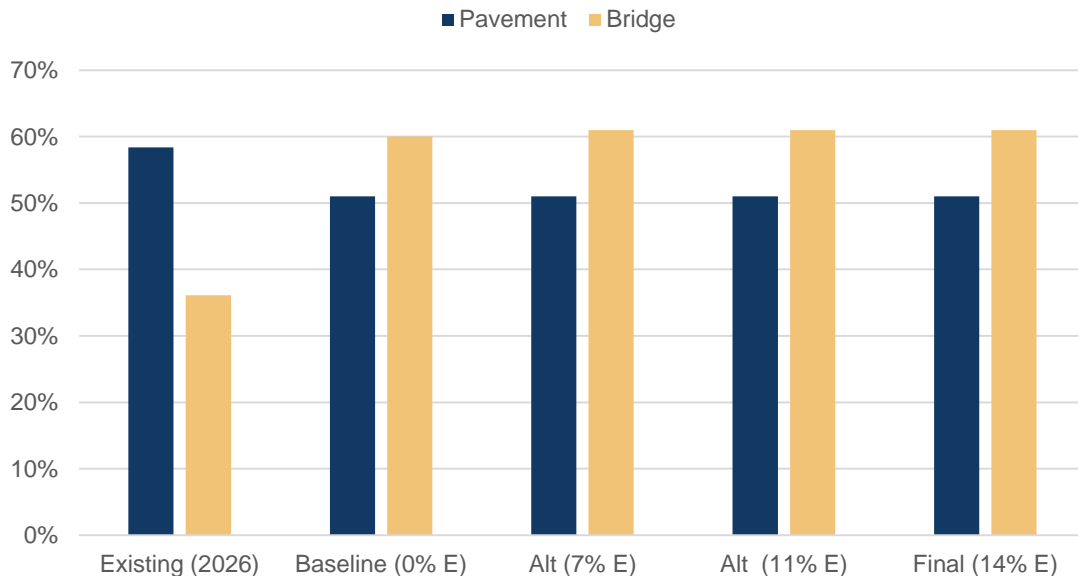
- 51% Pavement in Fair Condition
- 62% Bridges in Fair Condition

- **FY24-28 Final Program Investment Choice (14%)**

\$17.2 B in Pavement, \$3.9 B in Bridge

- 51% Pavement in Fair Condition
- 62% Bridges in Fair Condition

Pavement and Bridge in Fair Condition



For Pavement: assumes investment of \$50M per year for Life Extension Program.



Recommended Investment Choice (RIC)



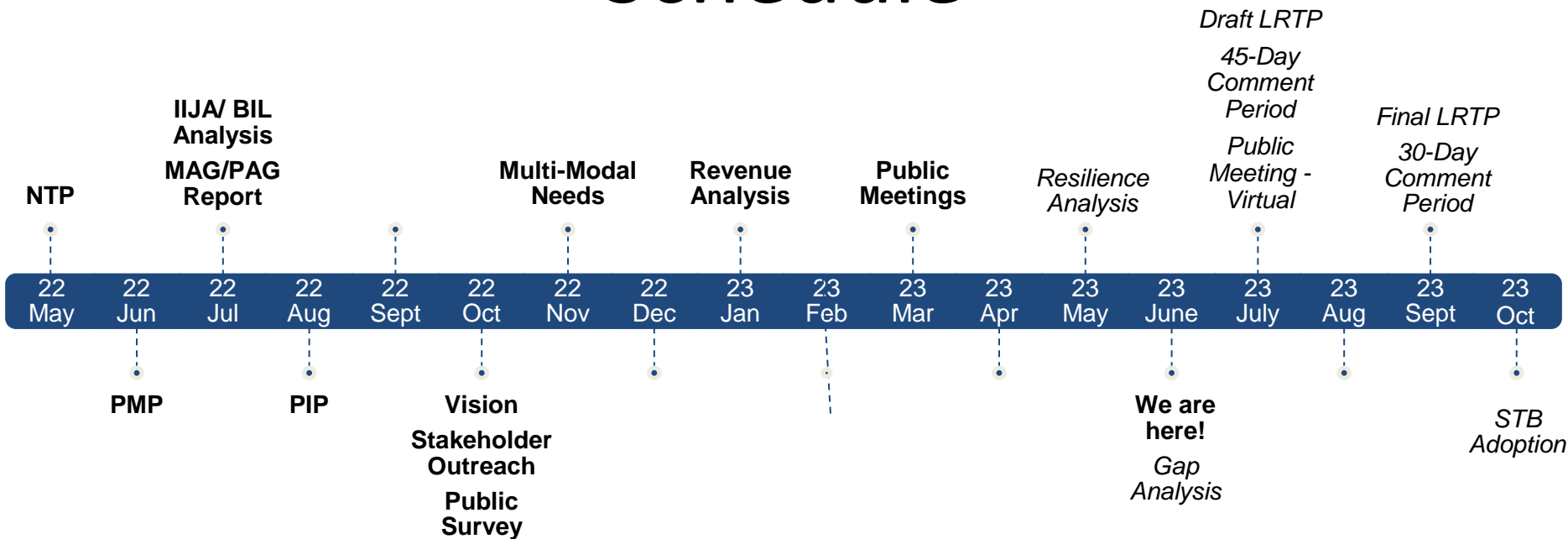
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*Utilizing Baseline Forecast Numbers



Schedule



Thank You!

