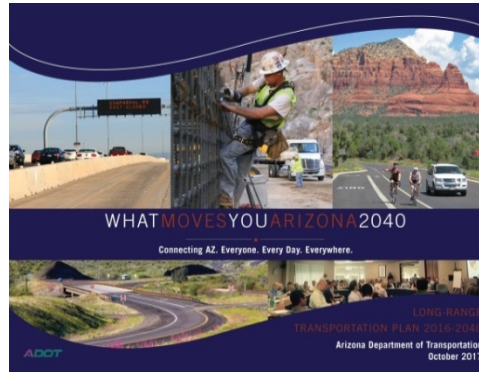


WHAT MOVES YOU ARIZONA 2040

Long-Range Transportation Plan 2016-2040: Summary of Public Review Comments

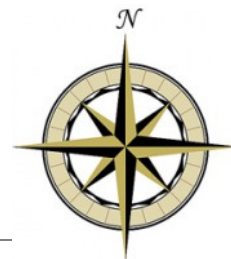


Presented to State Transportation Board

January 19, 2018

WMYA 2040

Review of Purpose & Themes



- ▶ **Provide policy direction to ADOT, MPOs, COGs and Other Partners on transportation performance, needs & priorities**
- ▶ **Establish a data-driven, performance-based policy framework to guide future project recommendations to the Board**
- ▶ **Focus on defining a Recommended Investment Choice (RIC) to help ADOT best invest limited resources in the state system**
- ▶ **Address statutory requirement for 5-Year Plan Update**

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Performance: FHWA 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

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Citizen Survey Results



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

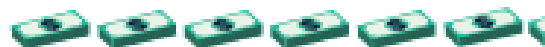
How Stakeholders Think ADOT Should Allocate Funding

PER \$100

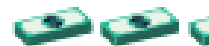
Preservation & Maintenance



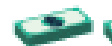
Expansion



Safety



Technology



Accessibility



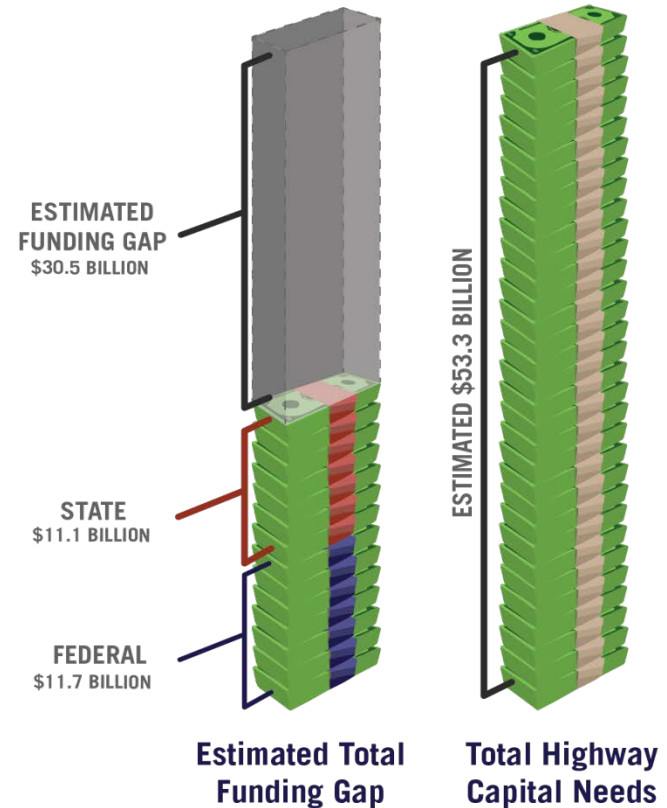
= \$5 \$15 \$25 \$35 \$45

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25-Year Highway Needs

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

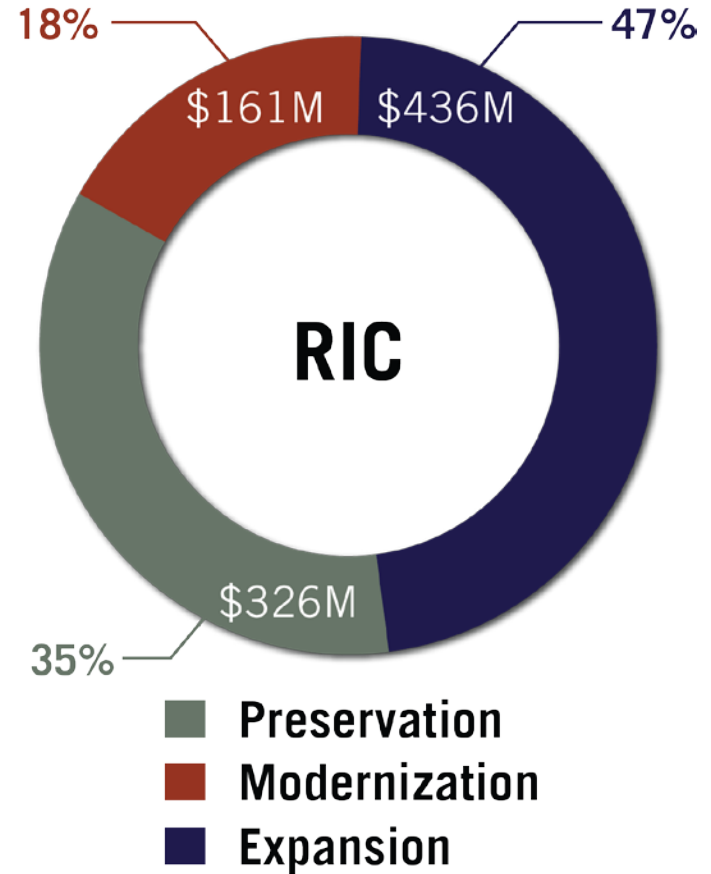
2016-2040 Revenue Forecast



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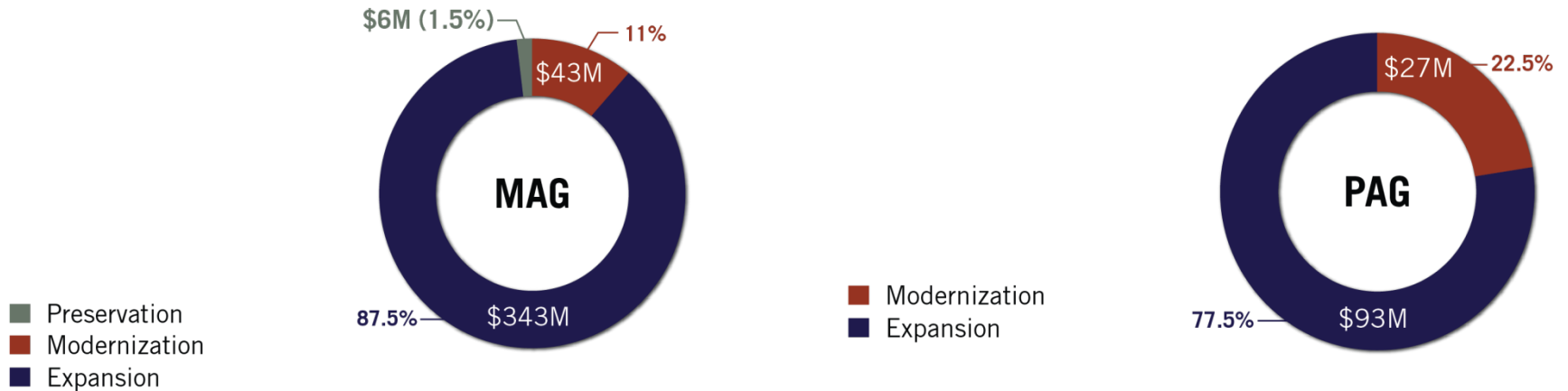
Recommended Investment Choice - Statewide

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



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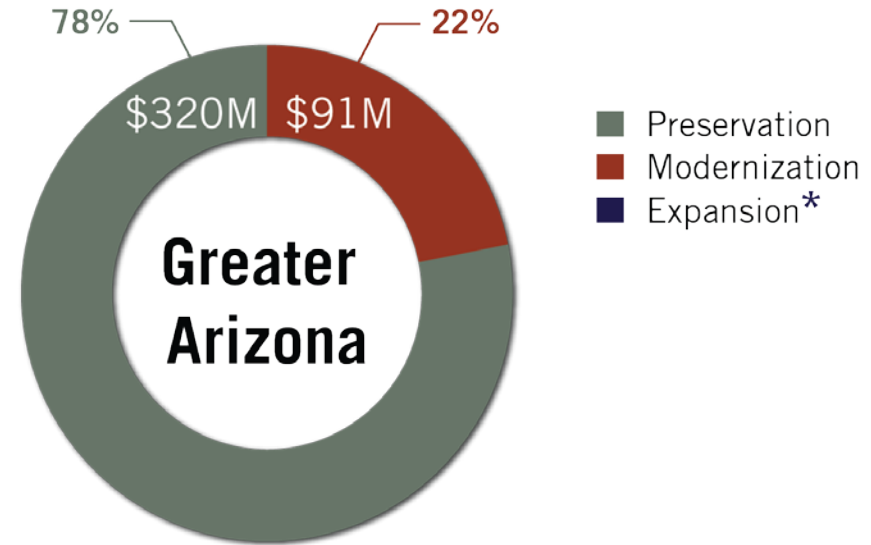
RIC – MAG and PAG – Expansion Focus



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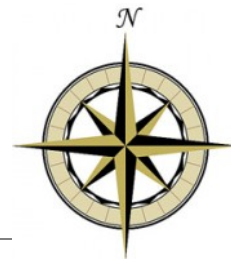
Recommended Investment Choice – Greater Arizona

- ▶ **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.)**



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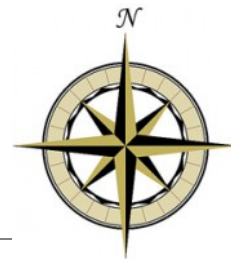
Summary of Public Review Comments (Cont'd)



- ▶ **Overall:** Concurrence with Preservation and Safety priorities
- ▶ **Details:**
 - Project-specific comments and requests (41% of commenters)
 - More transportation funding needed (14%)
 - Need more focus on alternative modes (11%)
 - Provide follow-up information on needs/performance (8%)
 - Still need new expansion projects in Greater AZ (7%)

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Summary of Public Review Comments



▶ **Details:**

- **Project-specific comments and requests (41% of commenters)**
 - ✓ **Most Often Mentioned: I-17, I-10, US 191, SR 30, SR 24, SR 95, US 95**
 - ✓ **ADOT Response:**
 - **The LRTP is a policy plan and is not project specific**
 - **We are not recommending new Expansion projects; new Preservation and Modernization project recommendations would need to compete for funding in future Five-Year Program processes**
 - **Refer comments to MPOs within their respective study areas**

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Summary of Public Review Comments (Cont'd)



▶ Details (Cont'd):

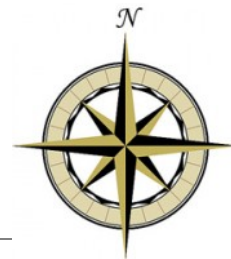
- More transportation funding needed (14%)

✓ ADOT Response:

- ADOT will be a good steward of the funding we have
- We will continue to apply for federal funding (TIGER, INFRA, etc.)
- We will continue to explore public-private partnerships
- We will consider partnerships with local governments and others

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Summary of Public Review Comments (Cont'd)

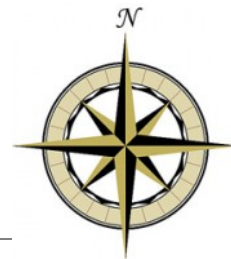


▶ Details (Cont'd):

- **Need more focus on alternative modes: bus, rail, air (11%)**
 - ✓ **ADOT Response:**
 - **ADOT is HURF funded – limited to street & highway purposes**
 - **We are stewards of federal funding for transit and State funding for airports.**
 - **We continually coordinate with other modal agencies**

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Summary of Public Review Comments (Cont'd)

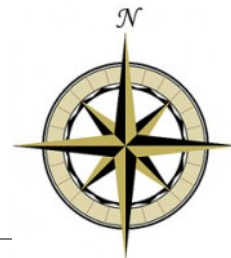


▶ Details (Cont'd):

- **Provide follow-up information on needs/performance (8%)**
 - ✓ **ADOT Response:**
 - **ADOT used HERS model to develop needs estimates; we will follow-up on requests for more details on needs**
 - **We will work to develop remaining federal performance targets and measure performance accordingly thereafter**
 - **We are developing technical tools (Decision Lens, eSTIP, asset management) to help us better demonstrate specific impacts of funding levels and projects**

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Summary of Public Review Comments (Cont'd)

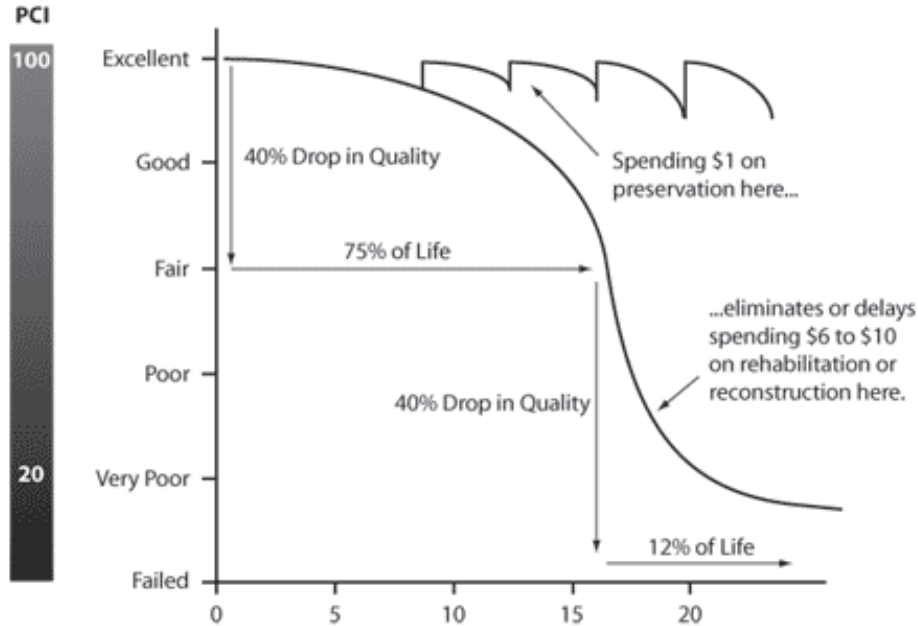


▶ Details (Cont'd):

- **Still need new expansion projects in Greater AZ (7%)**
 - ✓ **ADOT Response: We will complete 5-Yr Program Expansion projects, and...**
 - ADOT transportation engineers and planners as well as our citizen survey identify system **preservation** and **safety** as **top priorities** moving forward
 - We do not have sufficient revenues to support **new expansion projects** and still be able to preserve our fundamental infrastructure
 - We propose reserving up to 5% of the Greater Arizona preservation funding (about \$20M) in a given future program year to leverage grant opportunities and/or match local government/third party contributions for expansion projects that rate favorably compared to other project options

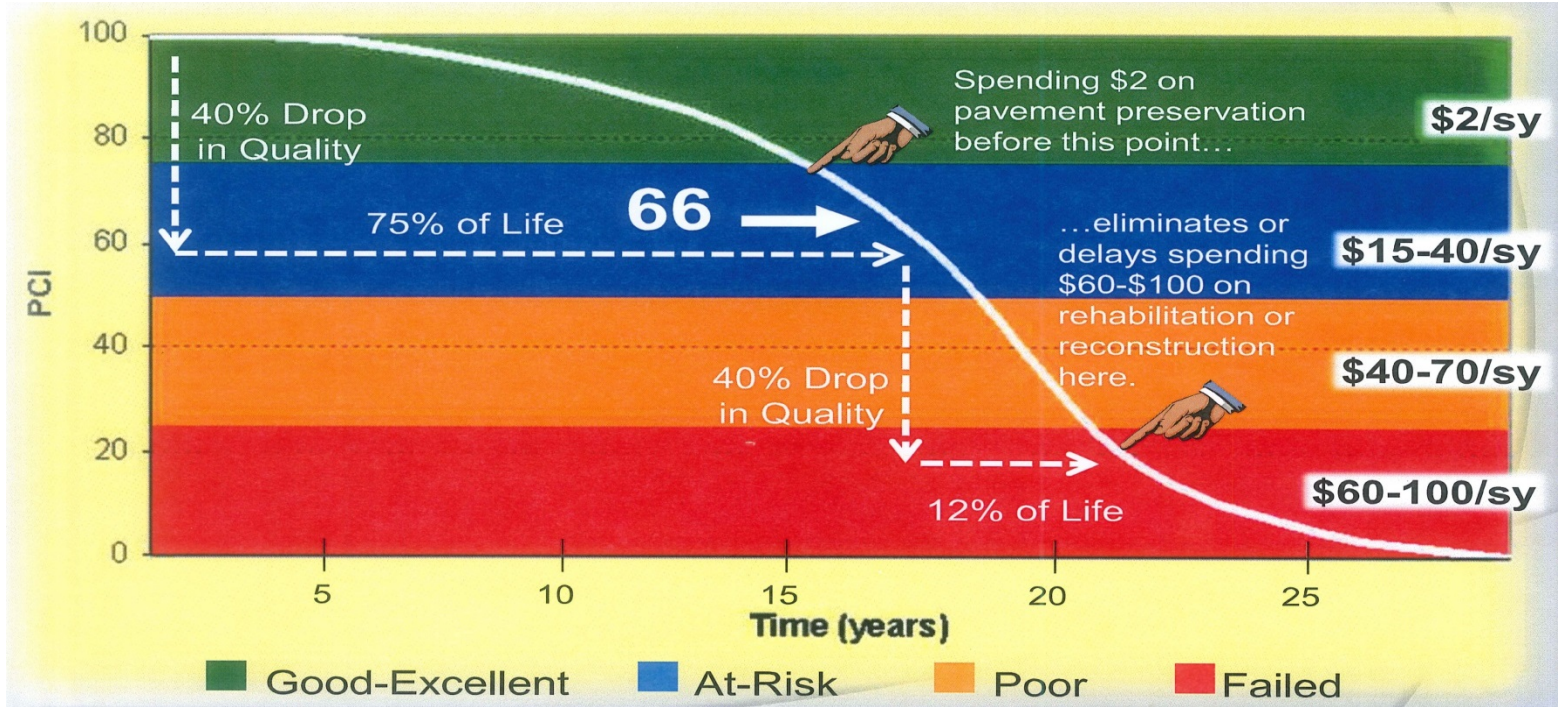
WMYA 2040

Addressing Pavement Preservation



(PCI – Pavement Condition Index)

Pavement Treatment Timing Risk

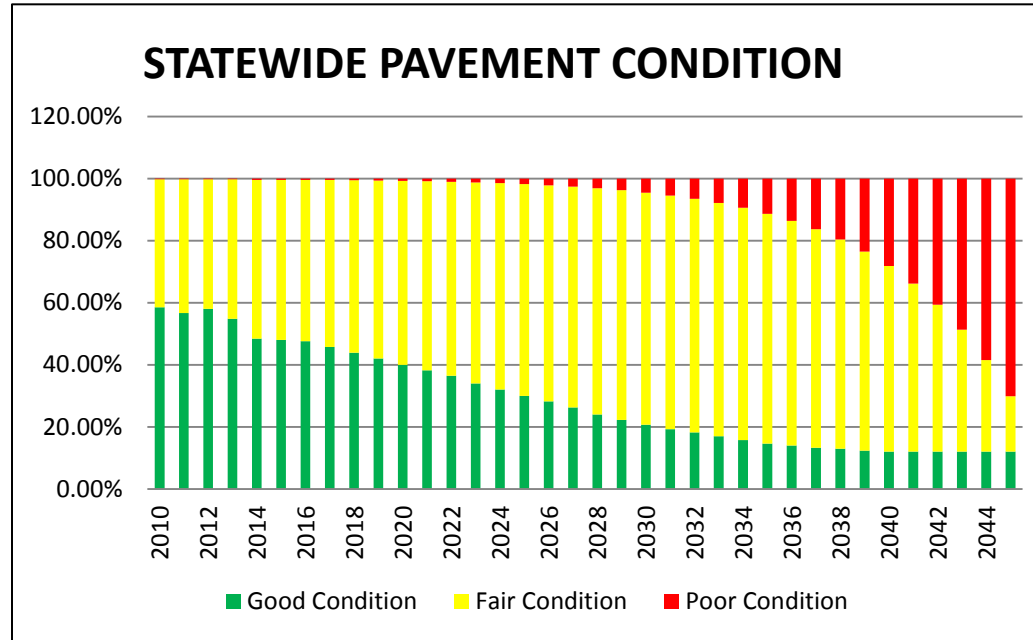


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Addressing Pavement Preservation

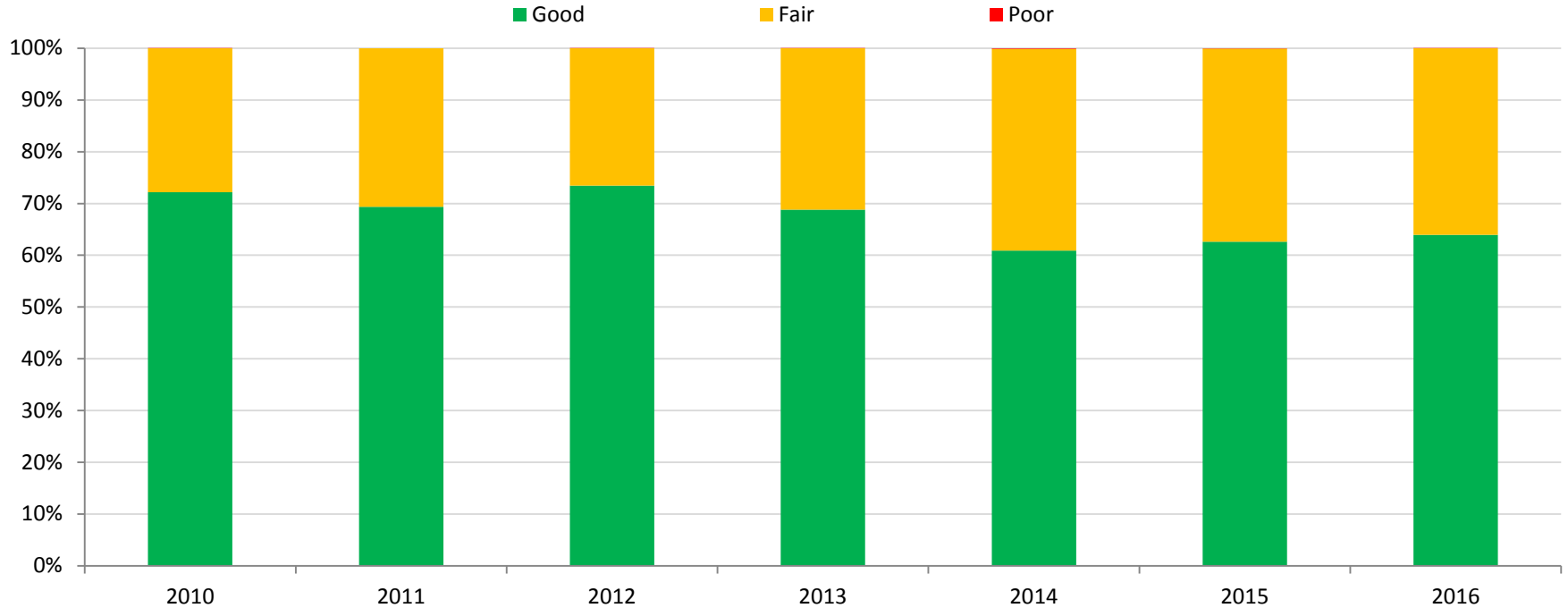


Pavement condition based on current program funding levels and percentages of funding spent on pavement maintenance and preservation.

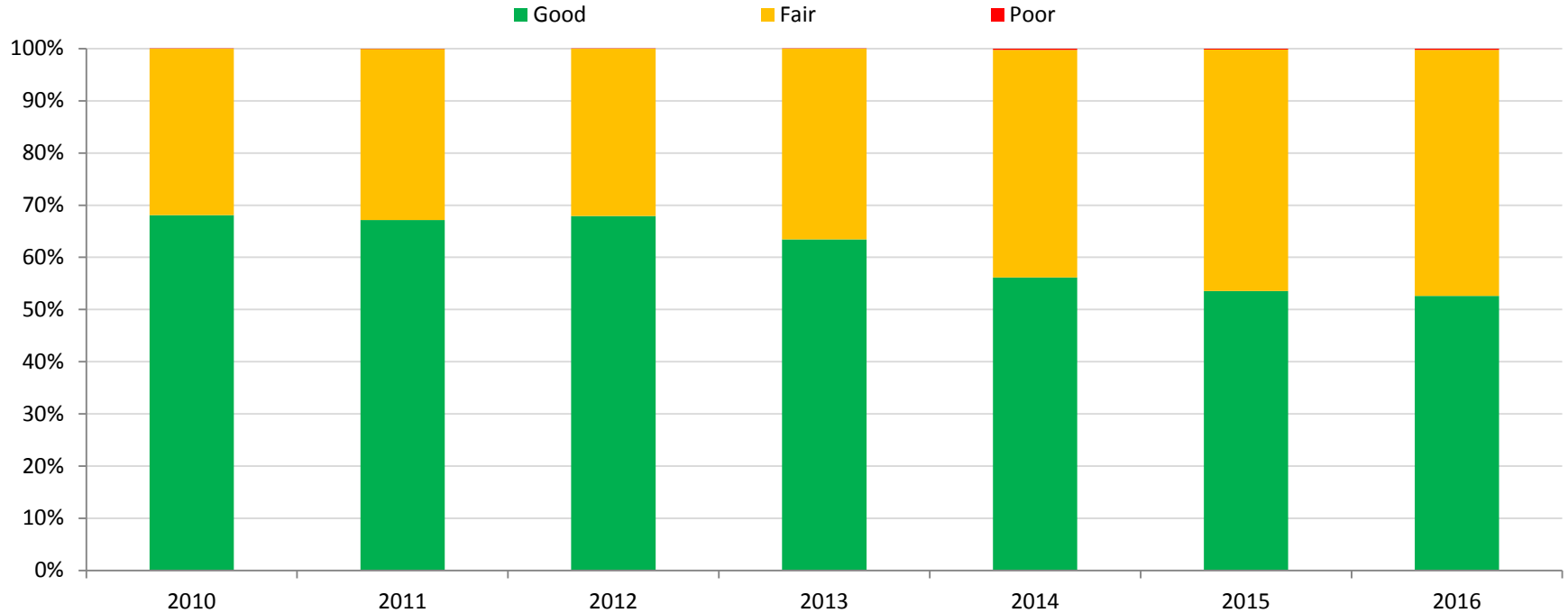


Source: ADOT
MPD

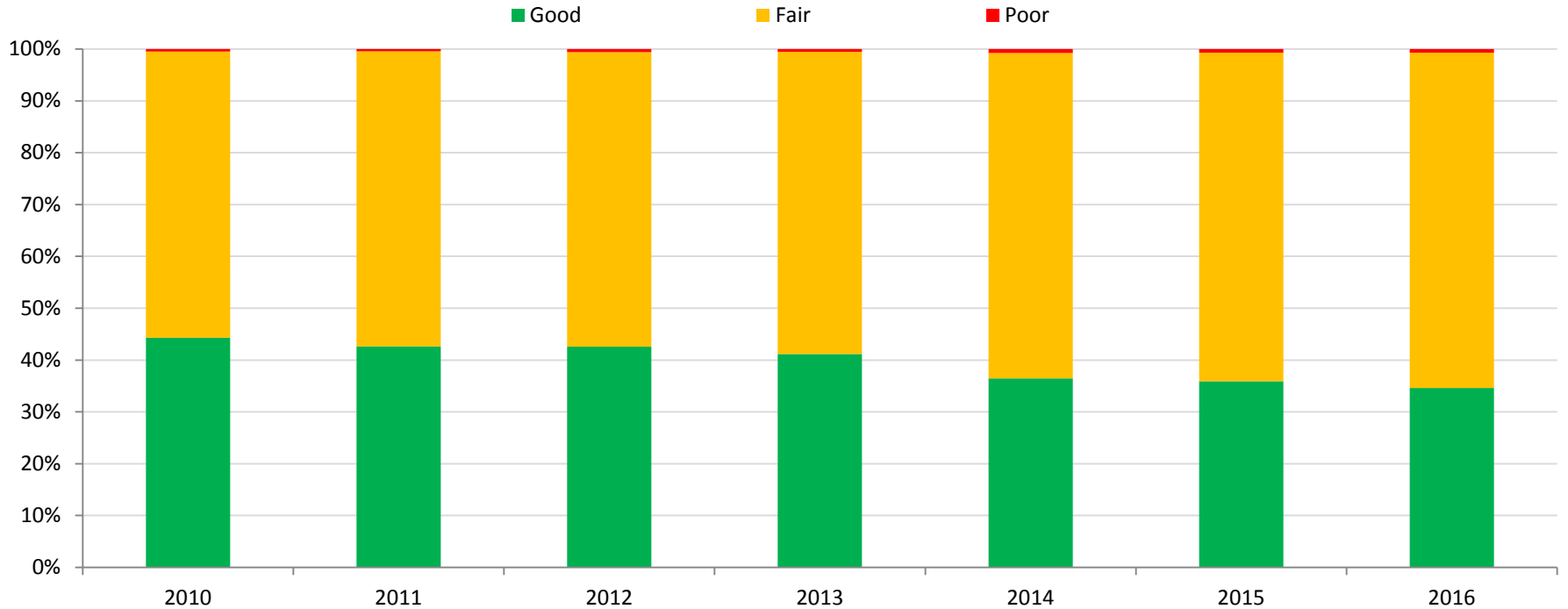
Pavement Condition: Interstate Highway System



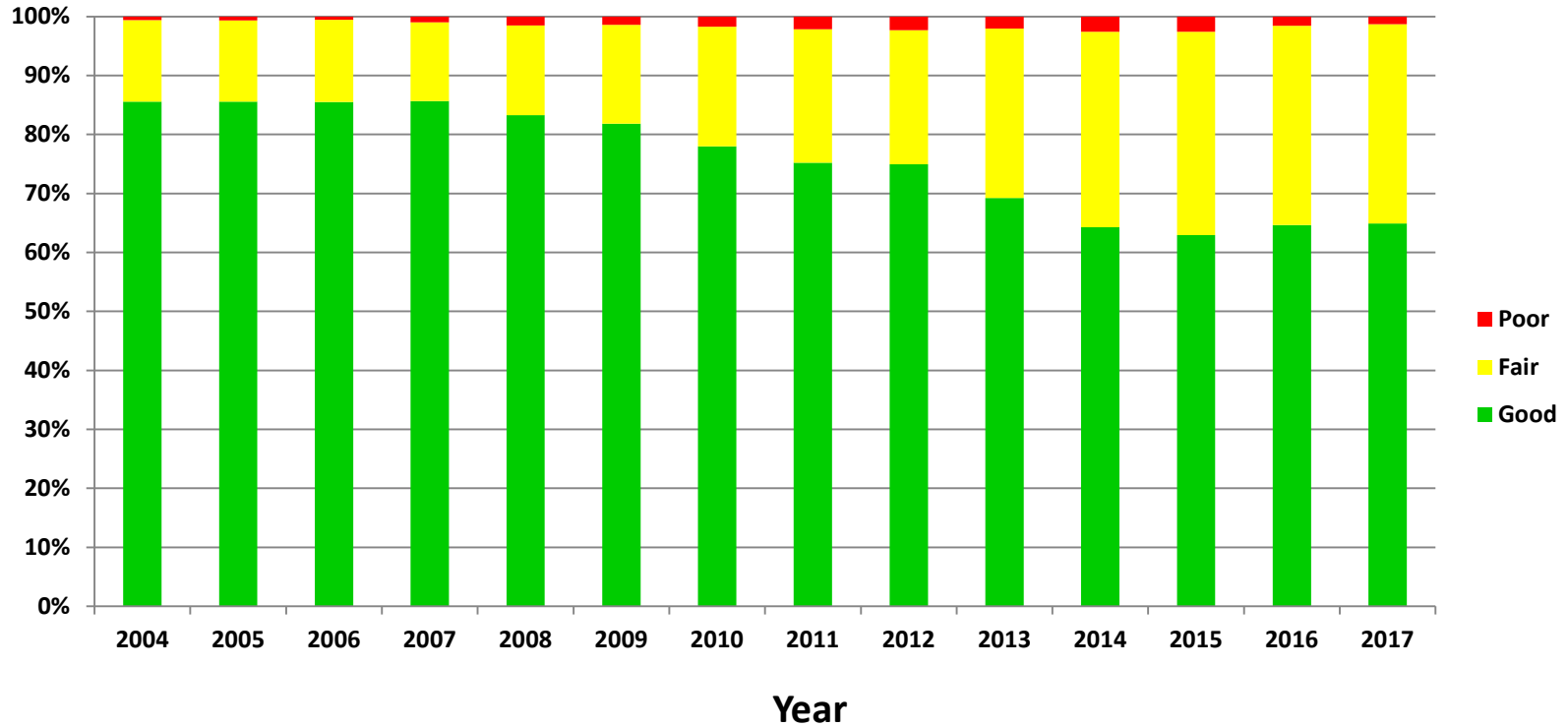
Pavement Condition: Non-Interstate NHS



PAVEMENT CONDITION: NON-NHS HIGHWAYS

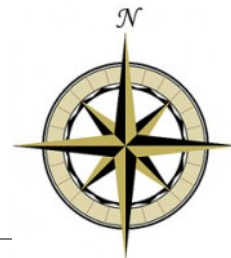


BRIDGE CONDITION: NHS



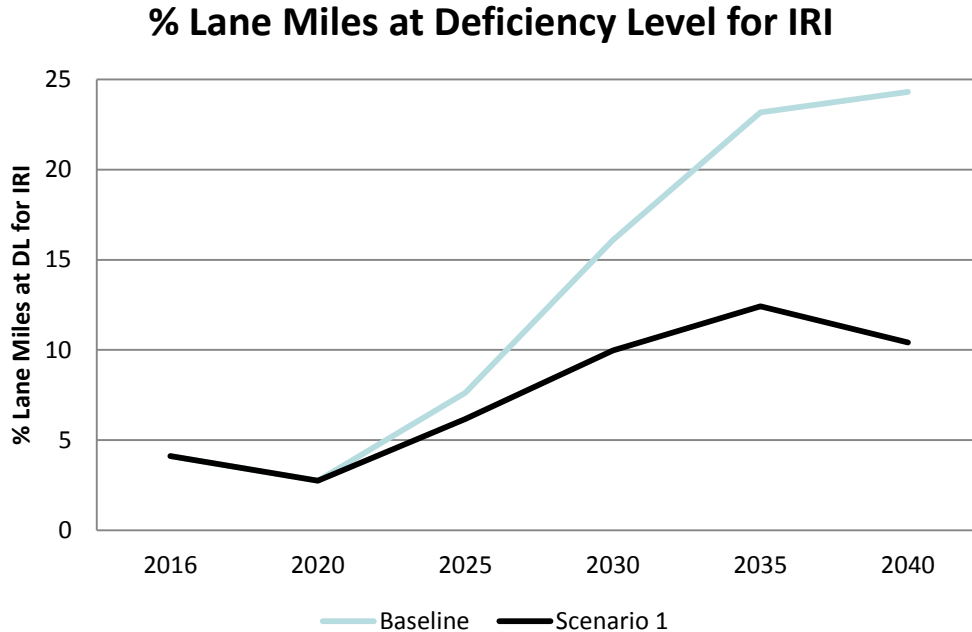
WMYA 2040

Summary and Next Steps



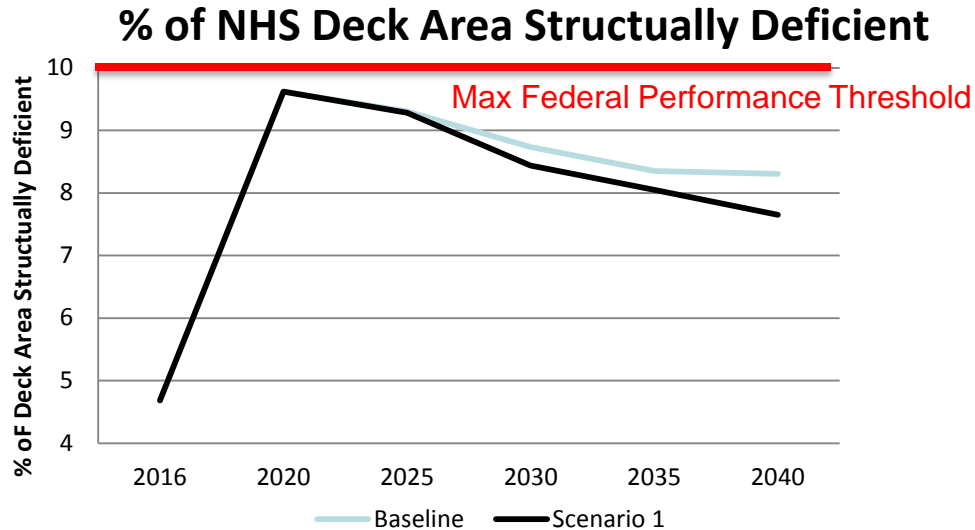
- ▶ **Greater Arizona:** Focus on Preservation of state highways and bridges, and keep safety a high priority; work with MPOs/COGs
- ▶ **MAG and PAG:** Respect their federal designation as leads for metro area planning; preserve state highways as appropriate
- ▶ **Projects:** Use this Plan framework to guide ADOT project recommendations to the Board thru Five-Year Program process
- ▶ **Next Steps:** Make any necessary adjustments and Request Final Adoption of Plan on 1/30/18 or 2/16/18

BASELINE VS. ENHANCED PRESERVATION SPENDING: STATE HIGHWAY SYSTEM PAVEMENT



- Assumes annual investment increases from \$218M to \$270M from 2023 to 2028, stays \$270M/year through 2040
- Baseline developed using HERS-ST Model
- Scenario 1 (LRTP) developed assuming average resurfacing cost of \$300K/lane mile

BASELINE VS. ENHANCED PRESERVATION INVESTMENT: NHS BRIDGES



- Assumes annual investment increases from \$40M to \$50M from 2023 to 2028, stays \$50M/Year through 2040
- Number of deficient NHS bridges declines from 72 in 2016 to 48 in 2040