

What Moves You Arizona

let's talk. let's listen. let's decide.

A Transportation Plan for 2035

Steering Team III

September 21, 2010





Agenda

- Performance Measures
- Alternative Investment Choices

Context: The Role of Performance Measures

- Plan Development -- quantify/qualify outcomes for different investment choices
- Capital Programming
 - Assess impacts of allocation strategies
 - Inform project selection
- Reporting
 - Track plan implementation
 - Inform mid-course correction



Performance Measures and AICs

- Mobility & Accessibility – delay, congestion and modal choices
- Preservation – pavement/bridge condition
- Economic Development – modal connections, system reliability, support for growth
- Transportation and Land Use – support for sound land use policies
- Environment – support for natural resource goals, emissions levels
- Safety and Security – relative level of investment in specific categories (e.g., grade separations)





Performance Measures

Craig Secrest




Overview

- Focus
- Immediate purpose
- Longer term purposes
- Goal areas



Goal Area #1: Improve Mobility and Accessibility

- **Congestion/Reliability**
 - Percent of roadway miles or amount at “tolerable” congestion levels
 - Avg. speed during peak periods in urban areas
- **Accessibility**
 - Percent of the population with reasonable access to more than one mode
- **Process**
 - Flexibility to respond to different types of mobility and accessibility needs



Goal Area #2: Preserve and Maintain the System

- **Highway Pavement**
 - Percent of State system lane miles in “fair” or better condition
- **Bridges**
 - Number of structurally deficient bridges
- **Maintenance**
 - System maintenance grade
- **Non-Highway Modes**



Goal Area #3: Support Economic Development

- **Competitiveness**

- Same measures as Mobility
- Level of investment in intermodal connectivity
- Hours of delay on selected freight routes

- **Job Creation**

- Annual number of jobs directly created by transportation spending

- **Responsiveness**

- Amount of dollars available for Economic Development initiatives



Goal Area #4: Link Transportation and Land Use

- **Promotion**

- Degree to which an AIC promotes sound land use

- **Coordination**

- Flexibility to respond to transportation needs that support better land use policies

Goal Area #5: Protect the Environment and Natural Resources

- **Air Quality**
 - VMT growth
 - Annual tons of carbon emissions
- **Water Quality**
 - Percent of system airports that have Storm Water Pollution Prevention Plan
- **Natural Resources**
 - Consistency of AIC with state natural resource goals





Goal Area #6: Enhance Safety and Security


- **Crashes and Fatalities**

- Annual number of crashes and fatalities
- Relative safety benefit of investment choice



Alternative Investment Choices

Dale Janik



Alternative Investment Choices (AIC)

- Menu of investment types
 - Preservation
 - Modernization
 - Expansion
- Informed by needs analysis, shaped by policy direction
- Each AIC “adds” to the same revenue bottom line
- Not project-specific

Alternative Investment Choices (AIC)

- All modes
- Socioeconomic context
 - Population growth
 - Employment
 - Economic activity
- Each AIC has performance outcomes
- Investment mix grounded in Goals & Objectives



AIC – Economic Linkages

- What is driving AZ's economy?
 - Global, national, local factors
 - Expert opinion/analysis
- How do residents and industries drive transportation demand?
- Where on path to bqAZ is each AIC?



Recommended Investment Choice

- Ultimate product of the LRTP
- Describes the system and how it will perform over 25-year horizon
- Influences capital programming

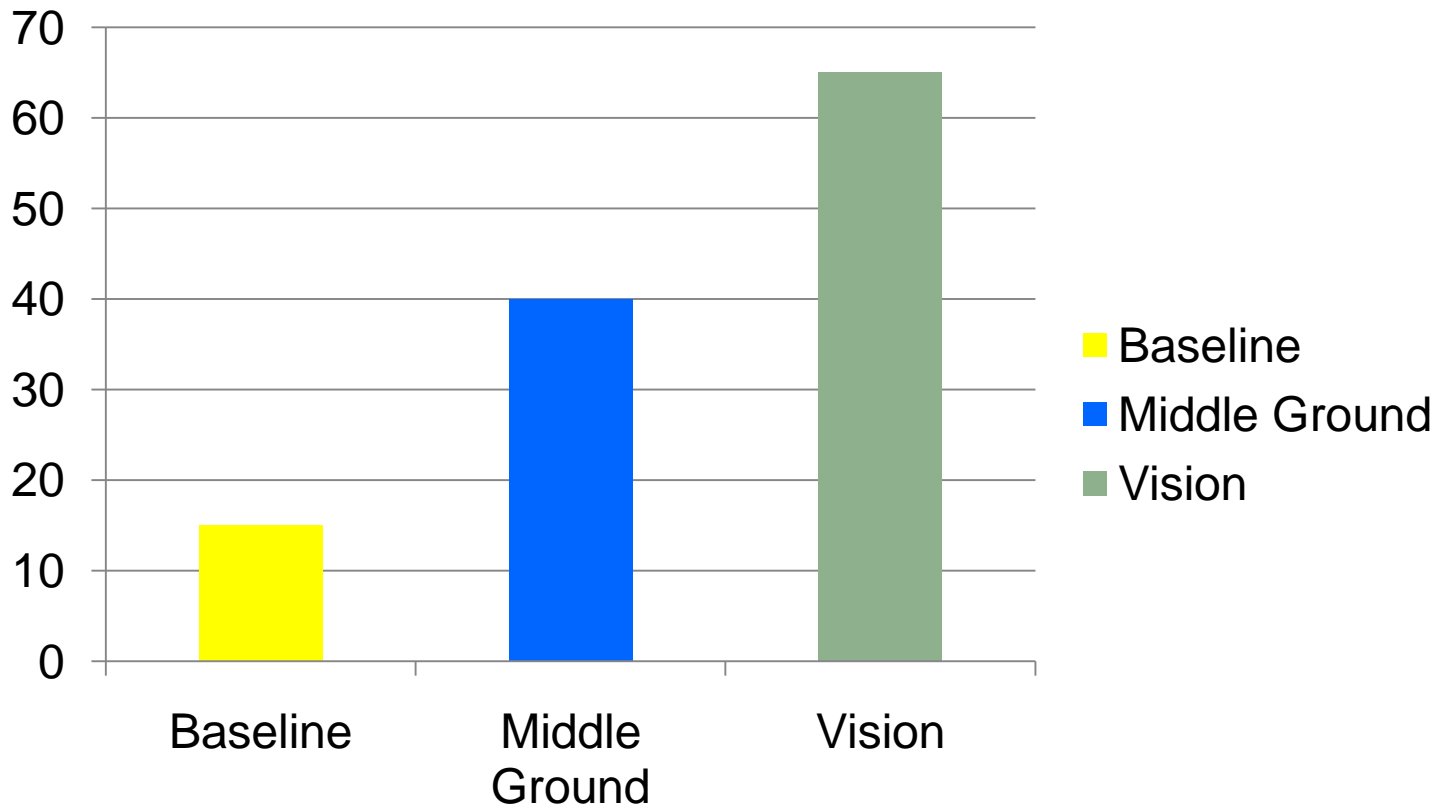


Example AICs

- “Baseline” AICs – most conservative
 - Slow growth, modest recovery (“A”)
 - Slow growth, optimistic recovery (“B”)
- “Middle Ground” AICs – in between
 - Moderate growth, phased recovery
 - Moderate growth, delayed recovery
- “Vision” AICs – implement bqAZ
 - Optimistic growth, phased recovery
 - Optimistic growth, rapid recovery

Example AIC Levels

25-year Revenues by AIC



Baseline AIC Examples

	AIC A	AIC B
Hwy. Preservation		
• Maintenance	15%	10%
• Hwy preservation	40%	27%
• Bridge	10%	7%
Hwy. Modernization	10%	12%
Hwy. Expansion		
• Add capacity	25%	30%
• New highways	0%	11%
Intercity Rail	0%	1%
Transit	0%	1%
Freight	0%	1%
Total	100%	100%



AIC "A" Preservation

- Highway/Bridge
 - Increase maintenance by 50%
 - Keep pace with all preservation needs + eliminate backlog on interstates
 - Keep pace with all bridge needs + eliminate backlog on major roads
- No non-highway investment
- Preservation Performance
 - Highway/Bridge = X% SOGR
 - Other = X% SOGR



AIC "A" Expansion

- No new facilities – unable to respond to growth initiatives
- No non-highway expansion investment
- Mobility performance
 - Congestion expected to worsen
 - Safety implications



AIC "B" Preservation

- Highway/Bridge
 - Increase maintenance by 30%
 - Keep pace with all pavement needs
 - Keep pace with all bridge needs
- Some investment in rail, transit, freight
- Preservation performance
 - Highway/Bridge = X% SOGR
 - Other = X% SOGR



AIC "B" Expansion

- Highway/Bridge
 - Limited new facilities
 - Able to respond to some growth initiatives
- Other modes
 - Some investment in rail, transit, freight
- Mobility performance
 - Congestion likely to worsen



Discussion

Tom Warne



Future Topics

- Alternative Investment Choices
- Follow up



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