



*"Building a Quality Arizona"*

*Statewide Rail  
Framework Study*

# bqAZ Statewide Rail Framework Study

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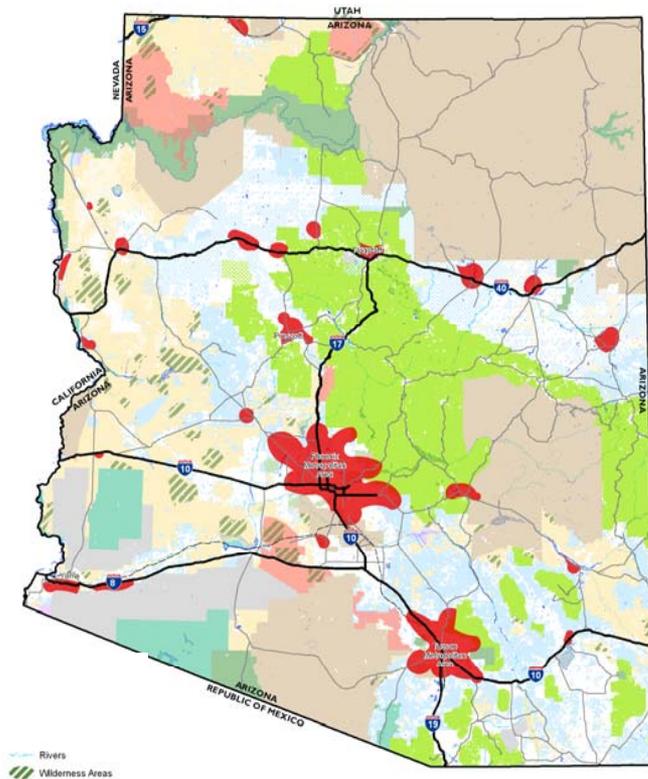
# What does it mean to Build a Quality Arizona?

- **We look far into the future (2050)**
- **We look at actual needs, not just what we think we can afford (traditional planning is fiscally constrained)**
- **We consider the relationships between land use, economic vitality and transportation**
- **We work with our partners and the public around the state for a collaborative vision that reflects our values as Arizonans**
- **We think carefully about what type of lifestyle we want to create and what kind of legacy we want to leave for future generations**

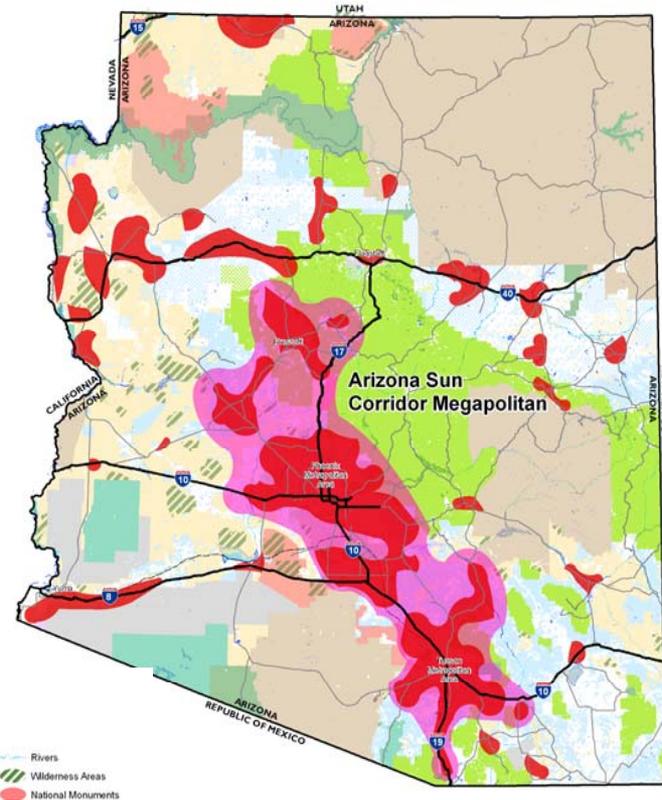




# Arizona's Potential for Growth



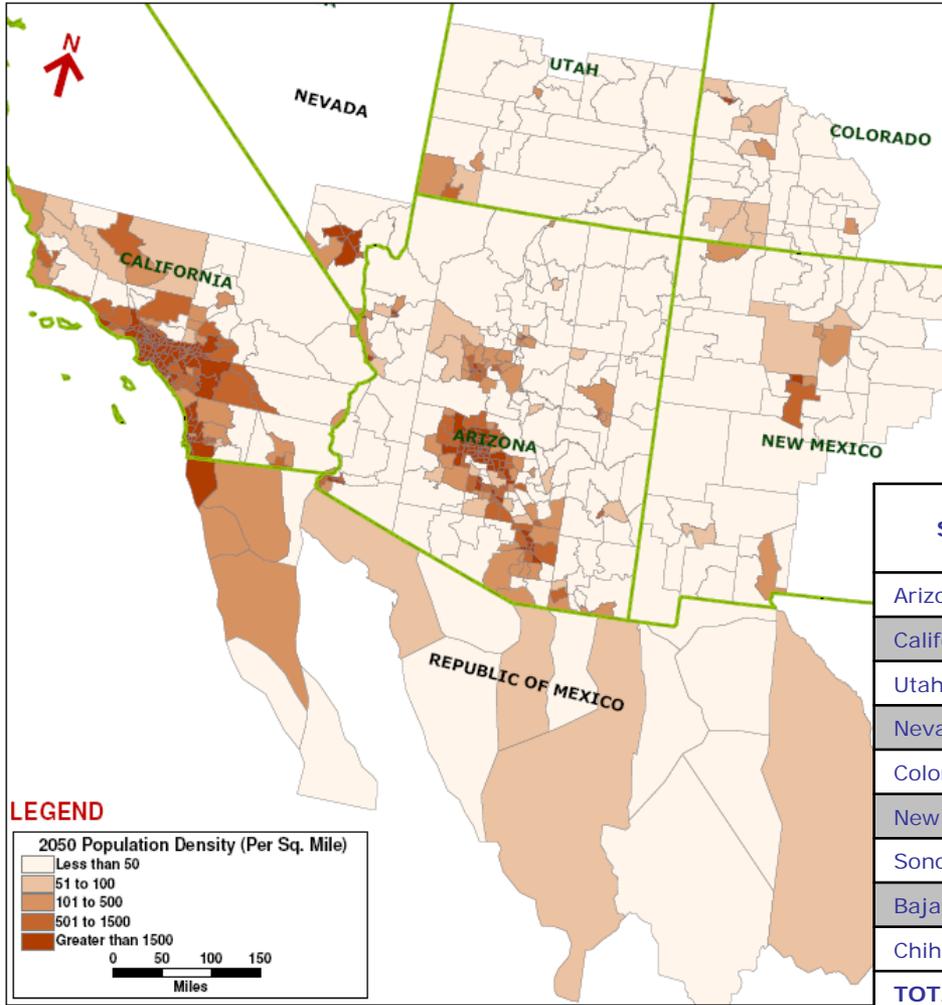
**2005 Growth Areas**  
Population: 5.1 million



**2050 Growth Areas**  
Population: 14.1 million



# Southwest Region Year 2050 Estimated Population Density



State/Region	Population		
	2005	2030 (% Increase) *	2050 (% Increase) *
Arizona	6,021,000	11,122,900 (85%)	14,855,400 (147%)
California (Southern)	22,142,000	29,530,100 (33%)	34,574,000 (56%)
Utah (Southern)	243,200	625,200 (157%)	1,007,100 (314%)
Nevada (Clark County)	1,710,600	2,861,400 (67%)	3,149,100 (84%)
Colorado (Southwest)	354,300	593,600 (68%)	785,100 (122%)
New Mexico (Eastern)	1,600,200	2,308,100 (44%)	2,878,600 (80%)
Sonora, Mexico	1,953,900	2,302,900 (18%)	2,668,700 (37%)
Baja California, Mexico	2,824,500	5,077,100 (80%)	6,877,500 (143%)
Chihuahua, Mexico	2,413,100	2,841,300 (18%)	3,214,600 (33%)
<b>TOTAL</b>	<b>39,328,600</b>	<b>57,408,600 (46%)</b>	<b>70,148,200 (78%)</b>

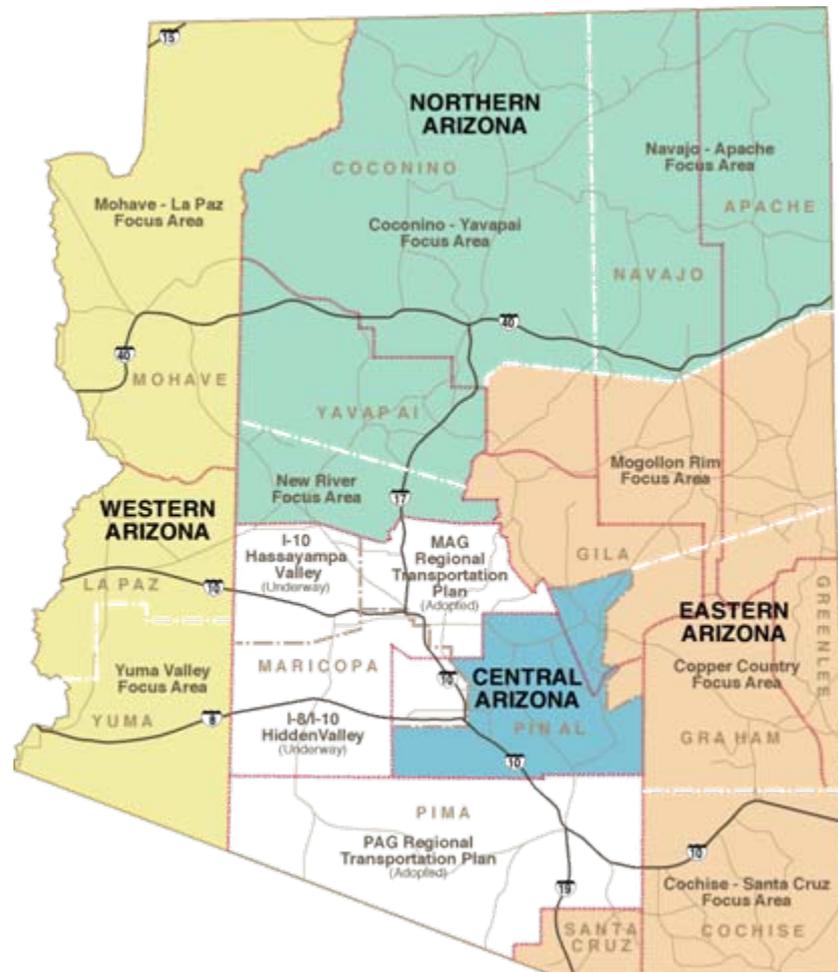
\* % Increase was calculated based on Year 2005 Population



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# A process for the future . . .

- Intrastate Reconnaissance Study
- Regional Frameworks
- MAG Frameworks
- Rail Framework
- Statewide Framework

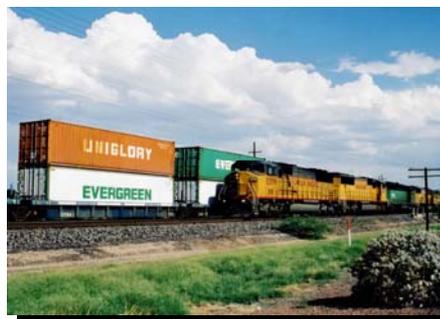
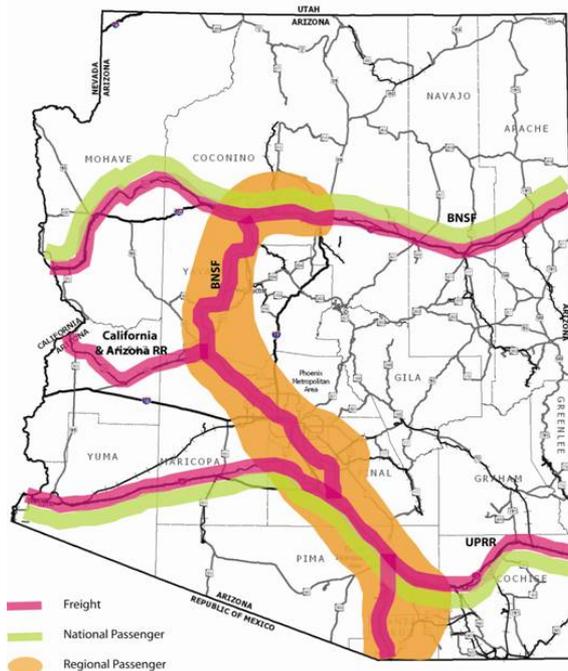


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# Rail Framework:

Long-range vision for statewide freight and passenger rail service

- Stimulate responsible economic growth
- Maximize use of existing rail infrastructure through strategic investments
- Provide important component of statewide 50-year transportation vision
- Complement work in MAG region on commuter rail
- Partner with private railroad companies to benefit all
- Address widespread interest in rail throughout the state, continuing and compiling decades of work on rail
- Establish a case for rail and a plan



# Outreach and Involvement

- **Rail Technical Advisory Team**
- **Online Survey (563 sent March 12, 126 completed so far)**
- **Stakeholder Communication**
  - One on one interviews
  - MAG commuter rail stakeholders
  - Bordering states meetings
- **Focus Groups**
  - Southern Arizona April 16
  - Northern Arizona April 24





# ADOT/MAG Coordination

- Monthly Meetings
- Coordination with Class I Railroads
- Areas of Common Interest





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**Jose Bustamante**

**AECOM—bqAZ Rail Framework Project  
Manager**

# Rail Framework Status

- Preliminary identification of key issues
- Outreach efforts
- Existing conditions and studies review
- Passenger and freight demand forecasting
- Next steps



## Arizona Advantages

- Multiple locations to serve Class I RRs
- Yuma is a prime location for an intermodal facility through Punta Colonet, Mexico
- Located on north-south NAFTA corridor



## Arizona Advantages

- Sun Corridor projected to be as large as the Los Angeles market
- No inventory tax; incentive for large distribution facilities
- Foreign Trade Zones/inland ports receive property tax relief



# Potential Arizona Rail Corridors

- Intercity and High-Speed Rail
  - Phoenix – Tucson
  - Phoenix – Yuma
  - Tucson – Nogales
  - Phoenix – Flagstaff – Winslow
  - Phoenix – Los Angeles
  - Phoenix – San Diego
  - Phoenix – Las Vegas
  
- Commuter Rail
  - Phoenix
  - Tucson
  - Phoenix – Prescott
  - Flagstaff



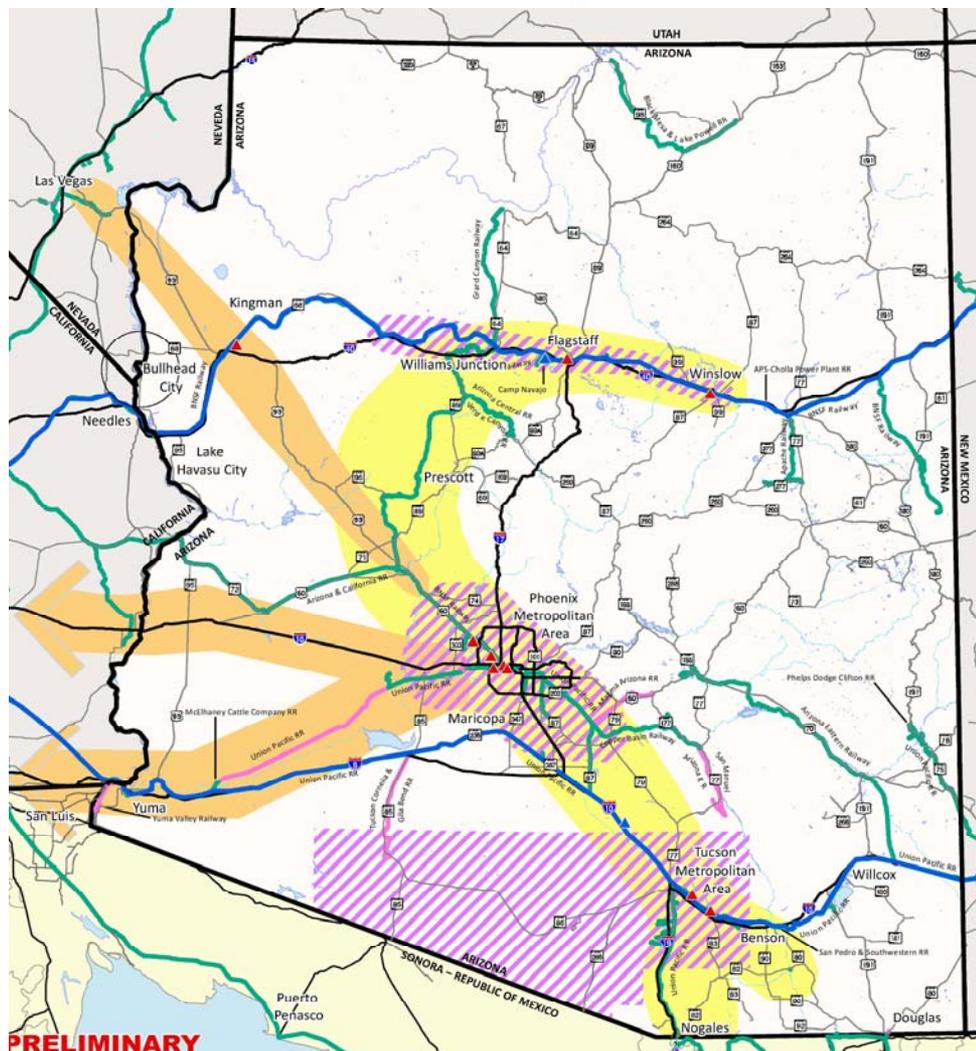
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# Potential Arizona Rail Corridors

- Intercity Rail
- High-Speed Rail
- Commuter Rail

**Legend**

<b>US Railroad Status</b>	Amtrak Route	Potential Southwest High Speed Rail Corridors
In Service	Regional Economic Development Area	<b>Major Roads</b>
Out of Service	Rivers	Interstate Highway
<b>Republic of Mexico Railroad Status</b>	Water Body	State Highway
In Operation	<b>US Railroad Facilities (Classification Yards, etc.)</b>	<b>Rail Type</b>
	US Railroad Facilities	Commuter Rail
	US Proposed Railroad Facilities	Intercity Rail
	Mexico Railroad Facilities	





# Preliminary Key Issues

- Systems Planning
- Policy
- Operations
- Project Implementation
- Sustainability



# Key Issue: Systems Planning

- Identification and distribution of demand
- Coordination with commuter rail planning
- Multimodal connections
- Mode shift
- Emerging new international markets
- Customs/Homeland Security
- Interstate coordination
- Right-of-way preservation



# Key Issue: Operations

- Safety
- Shared rights-of-way
- Motive power and technology Issues
- Positive Train Control (PTC)
- Noise
- Class I/Shortline railroads and branch connections



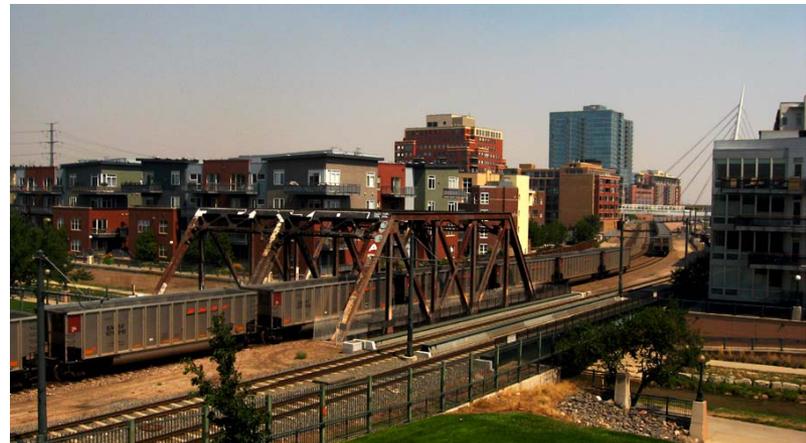
# Key Issue: Project Implementation

- Construction schedules/Implementation timeframes
- Funding sources
- Environmental clearance
- Economic development
- Authority and Responsibility
- Planned new facilities
- Public/Stakeholder support



# Key Issue: Sustainability

- Energy efficiency
- Clean technologies
- Focused growth
- Long-term viability





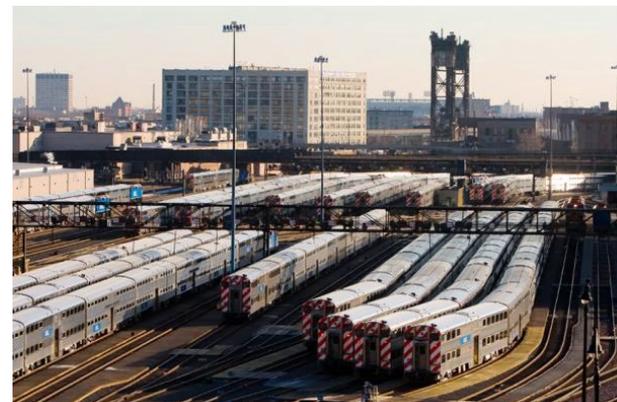
# Key Issue: Policy

- Rail as a transportation priority
- Passenger and freight relationship
- Federal and state oversight relationships
- Land use policy
- Cost allocation for rights-of-access
- Interstate operating agreements
- Competitive advantages
- Private sector investment
- Oversight and governance



# Next Steps

- Review and incorporate survey findings
- Area Focus Groups
- Refine and finalize key issues
- Begin alternatives definition
- Ongoing coordination with stakeholders





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**Thank You Very Much**

For more information, please visit:

[www.bqaz.gov](http://www.bqaz.gov)