

ADOT Passenger Rail Corridor Study Tucson to Phoenix

MAG
Transit Committee

May 10, 2012



Stakeholder Interviews

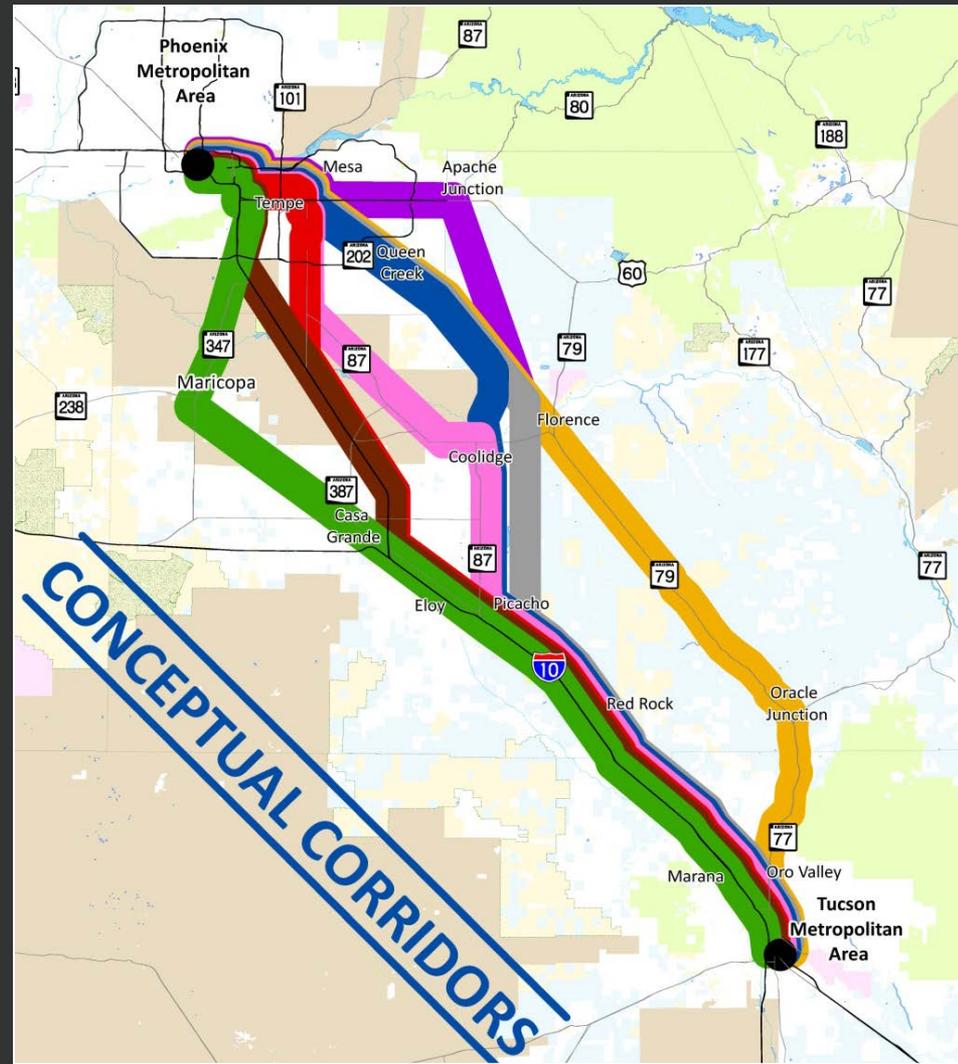
- 24 agency meetings completed of 38
- Agencies throughout Maricopa, Pima and Pinal Counties, and State Agencies

Journey

- What Brought Us to Today...
 - Statewide Transportation Planning Framework
 - State Rail Plan
 - FRA/FTA Co-Lead Study



Corridor



PASSENGER RAIL CORRIDOR STUDY
Tucson to Phoenix

Passenger Rail Corridor Study Process



Alternatives Analysis

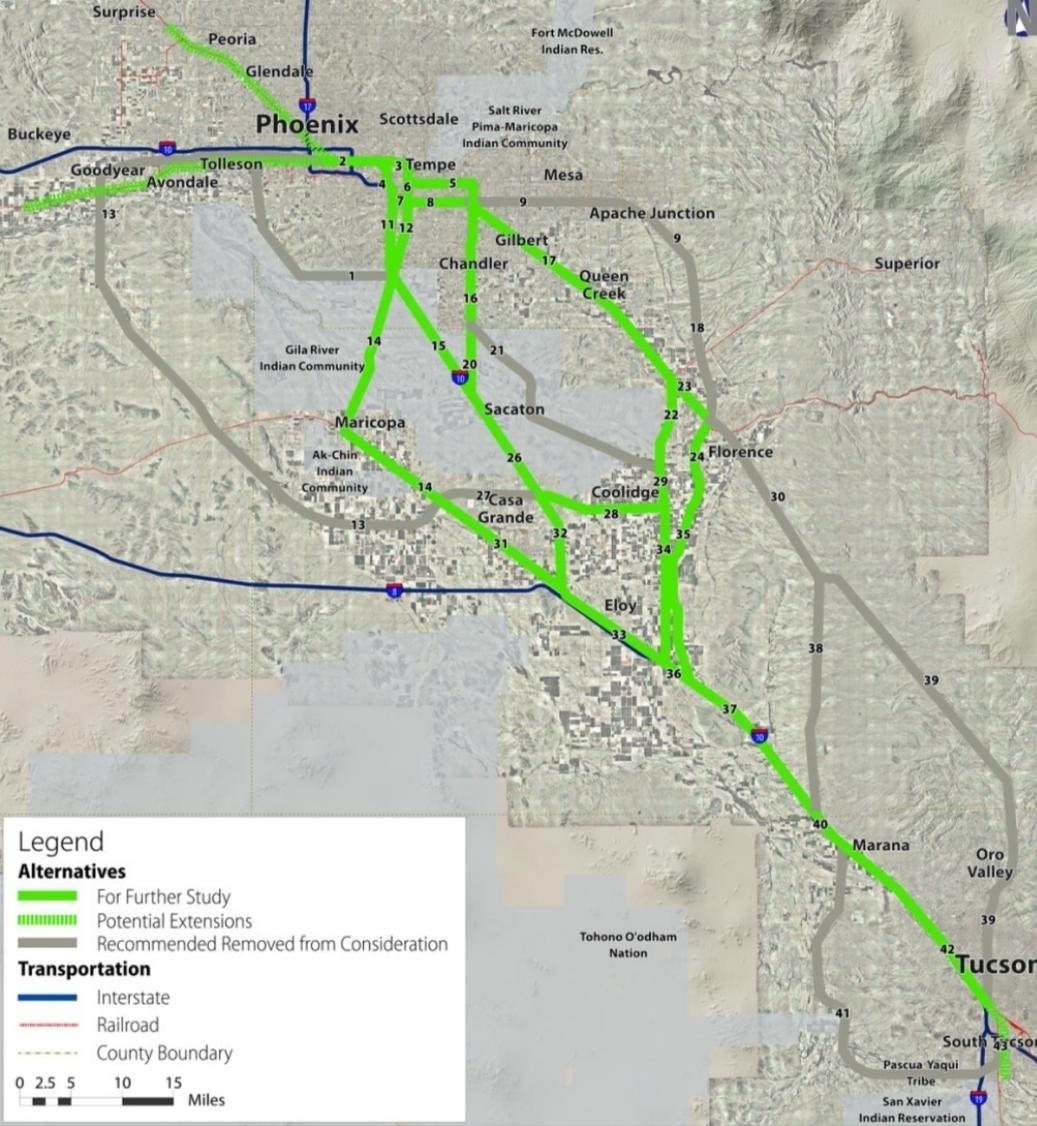
- Initial Screening
 - Conceptual Analysis
 - Final Analysis
-
- Result: Locally Preferred Alternative

Service Type Metrics

Mode	Cost per Mile		CO2 Emissions (g/passmile)	Energy use (BTU/pass-mile)	Implementation Status
	Capital	Operating			
Bus	0.14	0.78	160	1850	No current plans for exclusive ROW. Existing bus service on freeway.
Rail	0.25	0.38	56	749	State Rail Plan
Air		16.13	243	3260	No plan for expansion of service

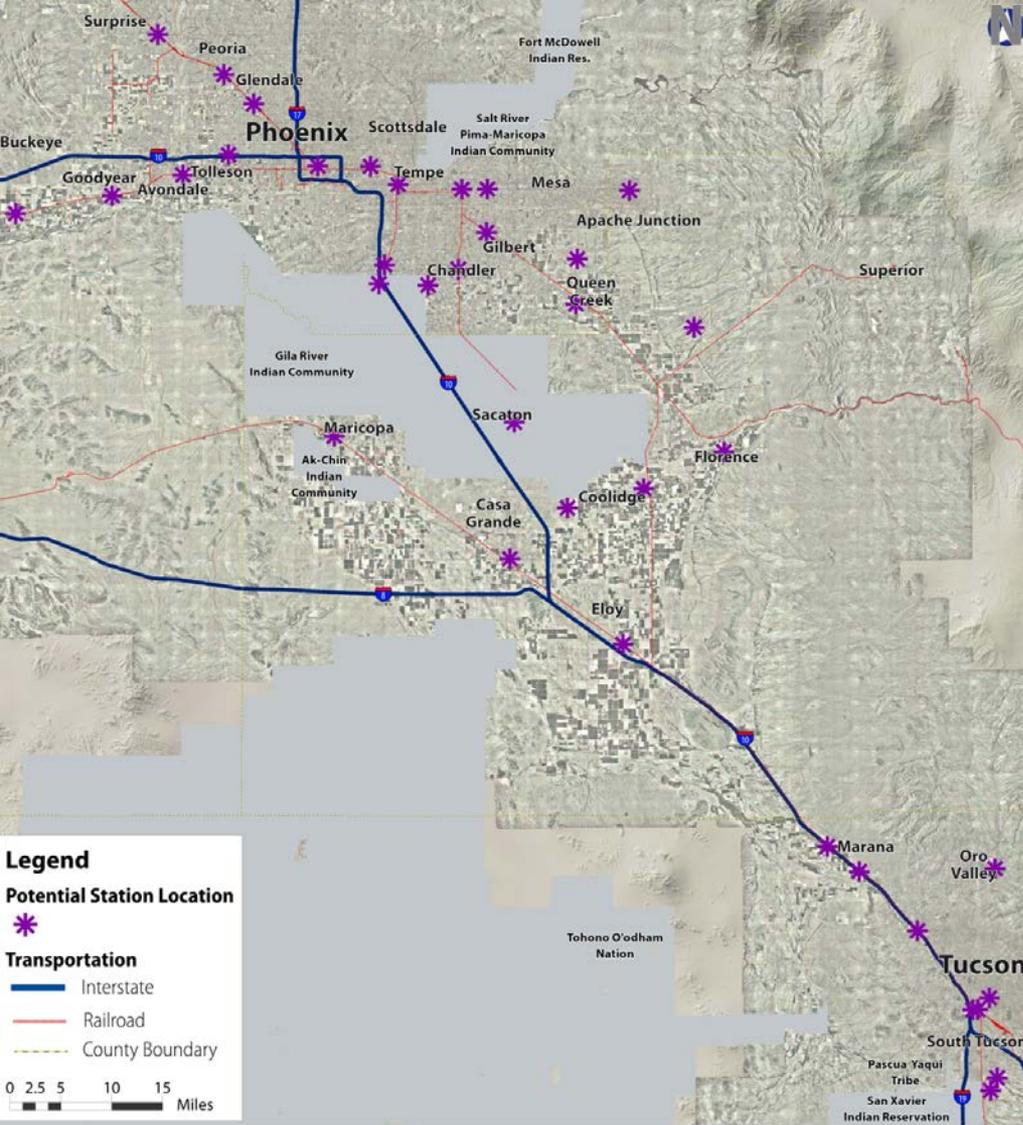
Initial Screening: Route Location

The screening of route locations reduced the number of potential alignments.



Station Evaluation

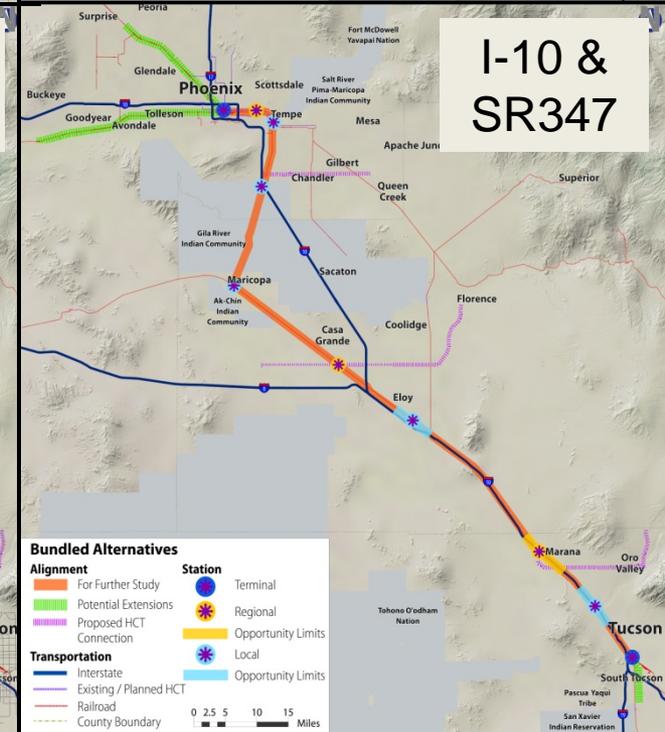
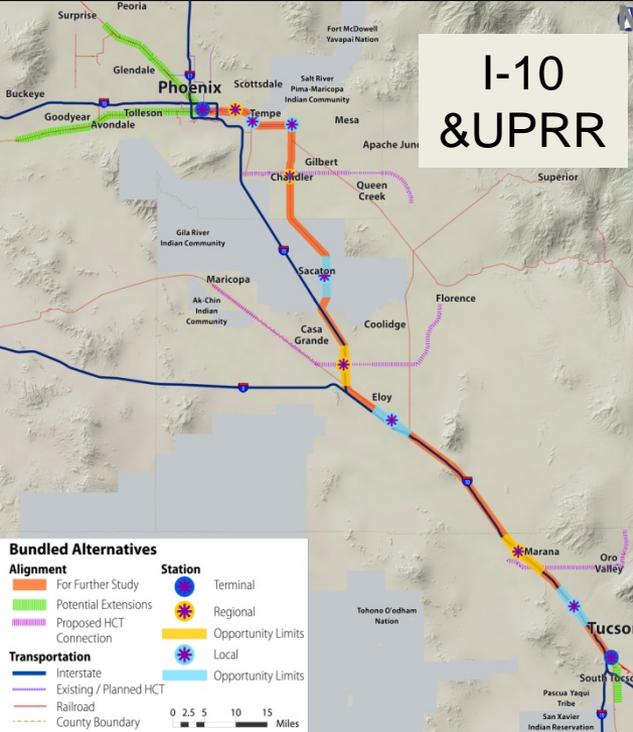
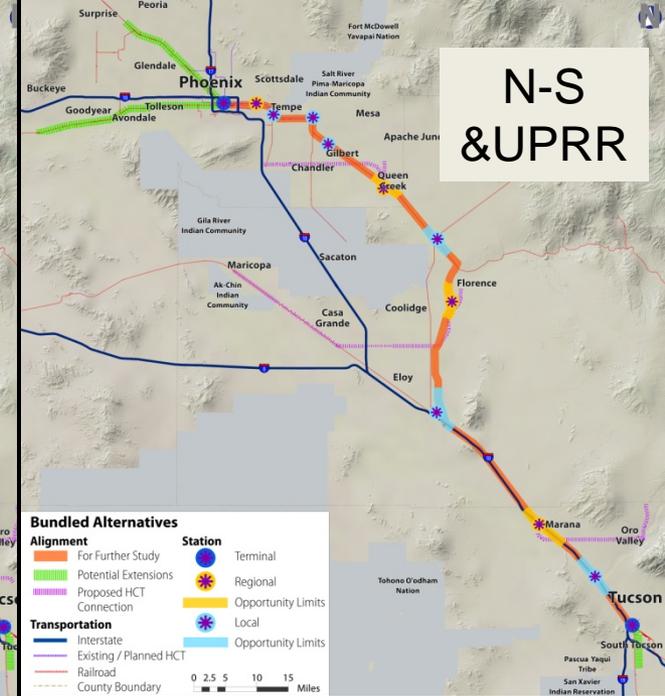
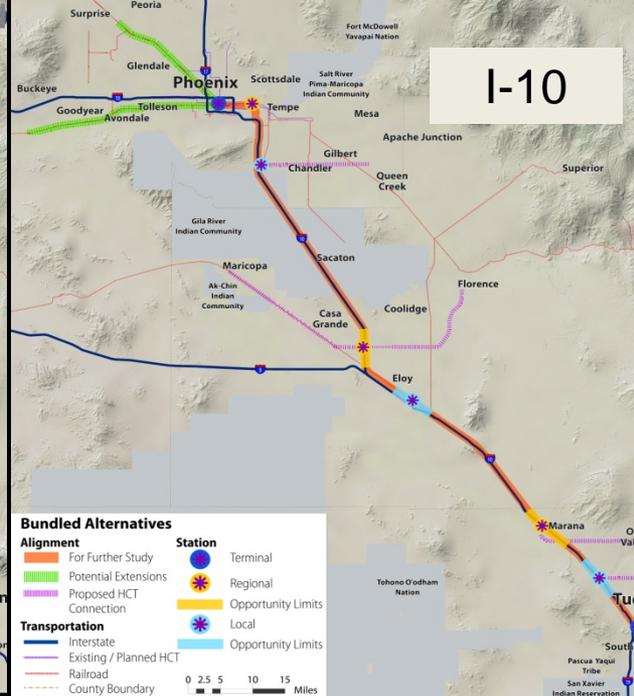
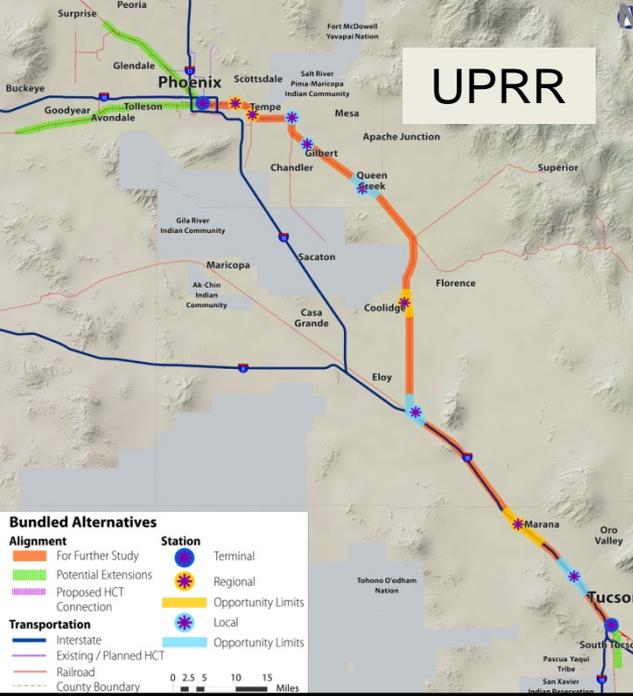
38 Potential Station Locations



Station Screening Results

Commuter System		Intercity System	
Rank	Station	Rank	Station
1	Downtown Phoenix	1	PHX Sky Harbor
1	Historic Depot - Tucson	2	Downtown Phoenix
1	Tucson Convention Center	3	Downtown Tempe / ASU
4	Downtown Tempe / ASU	4	Downtown Mesa
5	University of Arizona	5	LRT Station West (79 th Ave)
6	Downtown Mesa	6	Historic Depot – Tucson
7	LRT Station West (79 th Ave)	7	Tucson Convention Center
7	LRT End Station East (Mesa)	8	University of Arizona
9	Glendale (Grand Ave / 59 th Ave)	9	Tucson International Airport
10	PHX Sky Harbor	10	LRT End Station East (Mesa)
11-38	<i>Continues</i>	11-38	<i>Continues</i>





MAG Area Considerations

- System Hub Locations
 - Downtown Phoenix
 - Sky Harbor
- System Enhancements
 - Commuter/Intercity extensions
 - Chandler Ave BRT
 - Gateway Airport Connection

Passenger Rail Corridor Study Process



Questions?



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