



SONORAN CORRIDOR STUDY

March 7, 2019

ARIZONA DEPARTMENT
OF TRANSPORTATION
AND FEDERAL HIGHWAY ADMINISTRATION

P9101 01P | 410-A(BFI)S

**TIER 1 Environmental Impact Statement:
Recommended Reasonable Range of Alternatives**

Public Meeting

Title VI

TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 AND THE AMERICANS WITH DISABILITIES ACT (ADA)

Pursuant to Title VI of the Civil Rights Act of 1964 and the Americans with Disabilities Act (ADA), ADOT does not discriminate on the basis of race, color, national origin, age, sex or disability. Persons who require a reasonable accommodation based on language or disability should **contact Joanna Bradley at 520.235.3494 or at JBradley@azdot.gov**. Requests should be made as early as possible to ensure the State has an opportunity to address the accommodation.

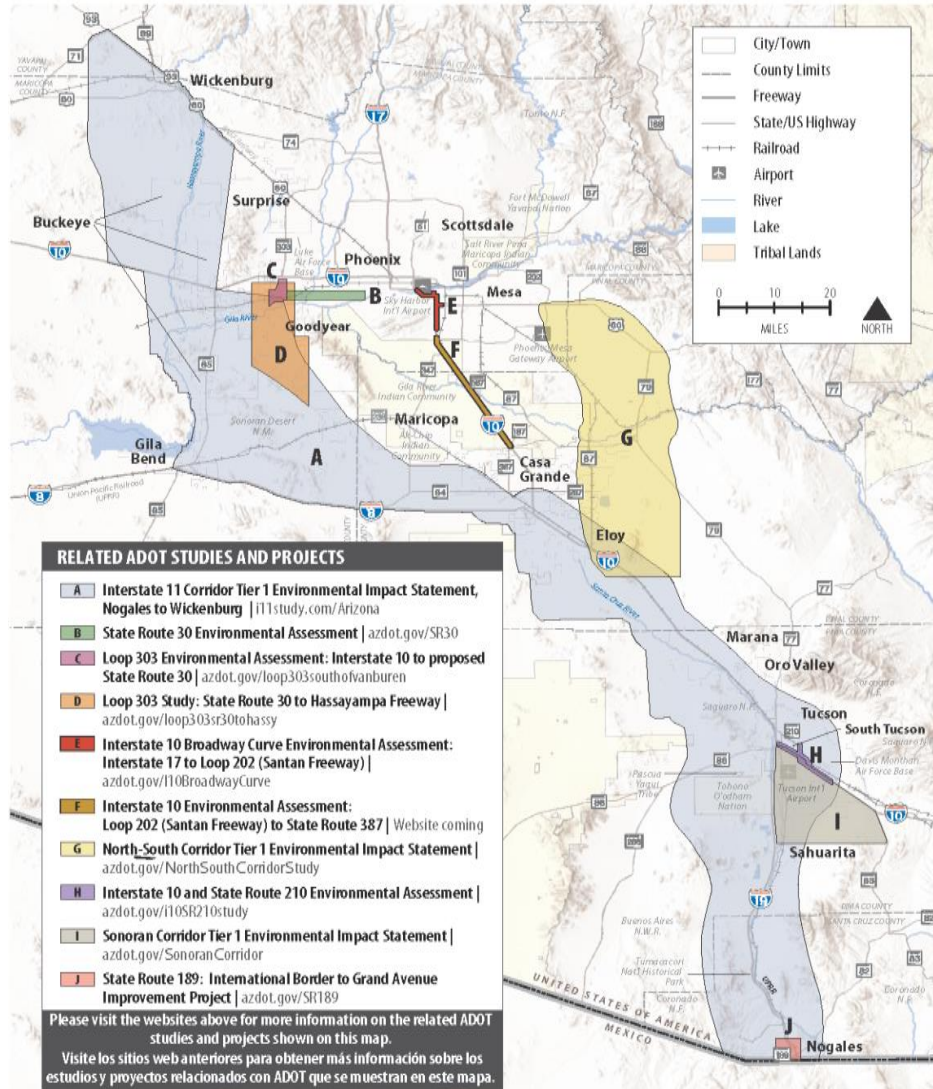
De acuerdo con el título VI de la Ley de Derechos Civiles de 1964 y la Ley de Estadounidenses con Discapacidades (ADA por sus siglas en inglés), el Departamento de Transporte de Arizona (ADOT por sus siglas en inglés) no discrimina por raza, color, nacionalidad, edad, género o discapacidad. Personas que requieren asistencia (dentro de lo razonable) ya sea por el idioma o por discapacidad deben ponerse contacto con **Joanna Bradley al 520.235.3494 o JBradley@azdot.gov**. Las solicitudes deben hacerse lo más pronto posible para asegurar que el equipo encargado del proyecto tenga la oportunidad de hacer los arreglos necesarios.

Agenda



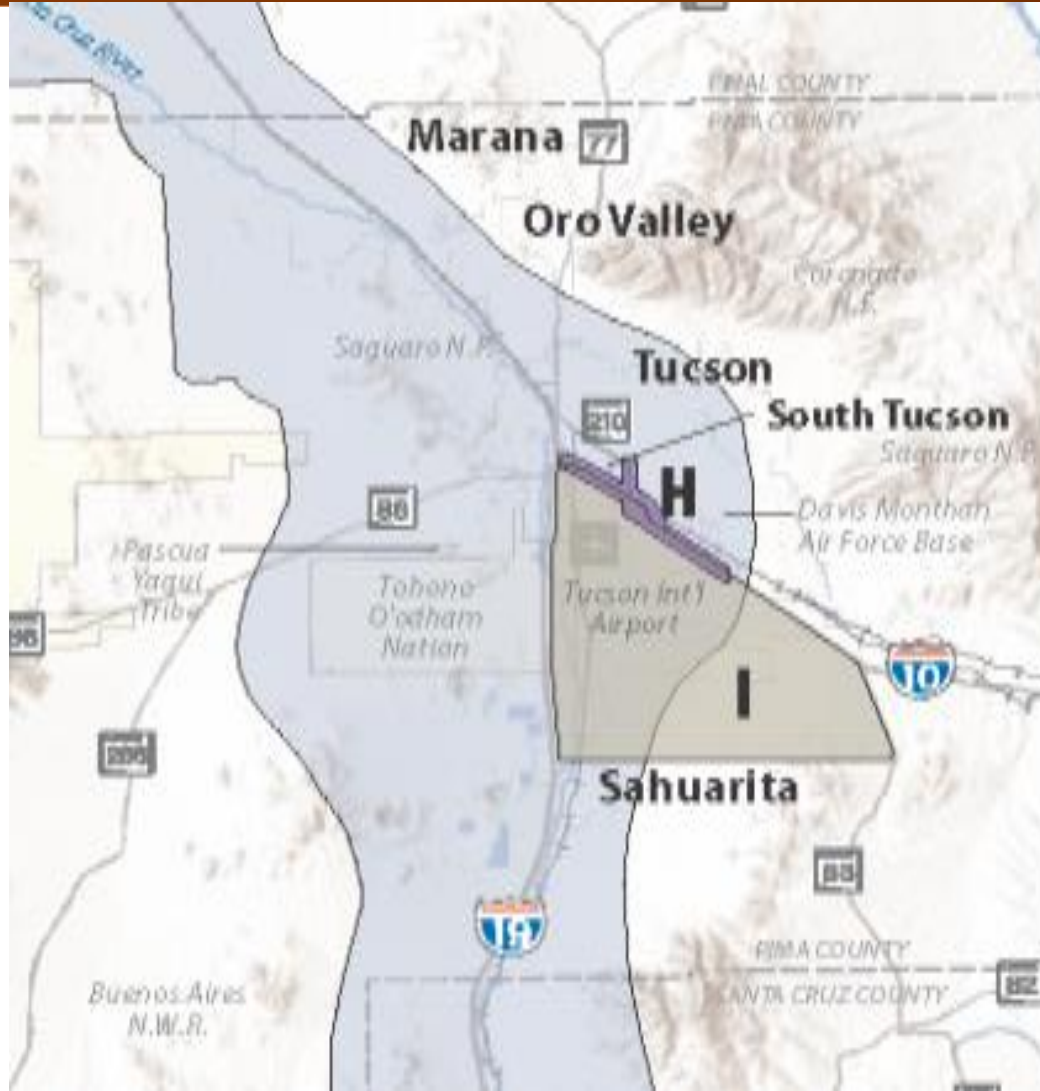
- Study area/process/status
- Project review
- September 26, 2018 public meeting
- Tribal outreach
- Corridor alternatives
- Corridor screening
- Reasonable Range of Alternatives
- Project status
- Next steps

ADOT Studies



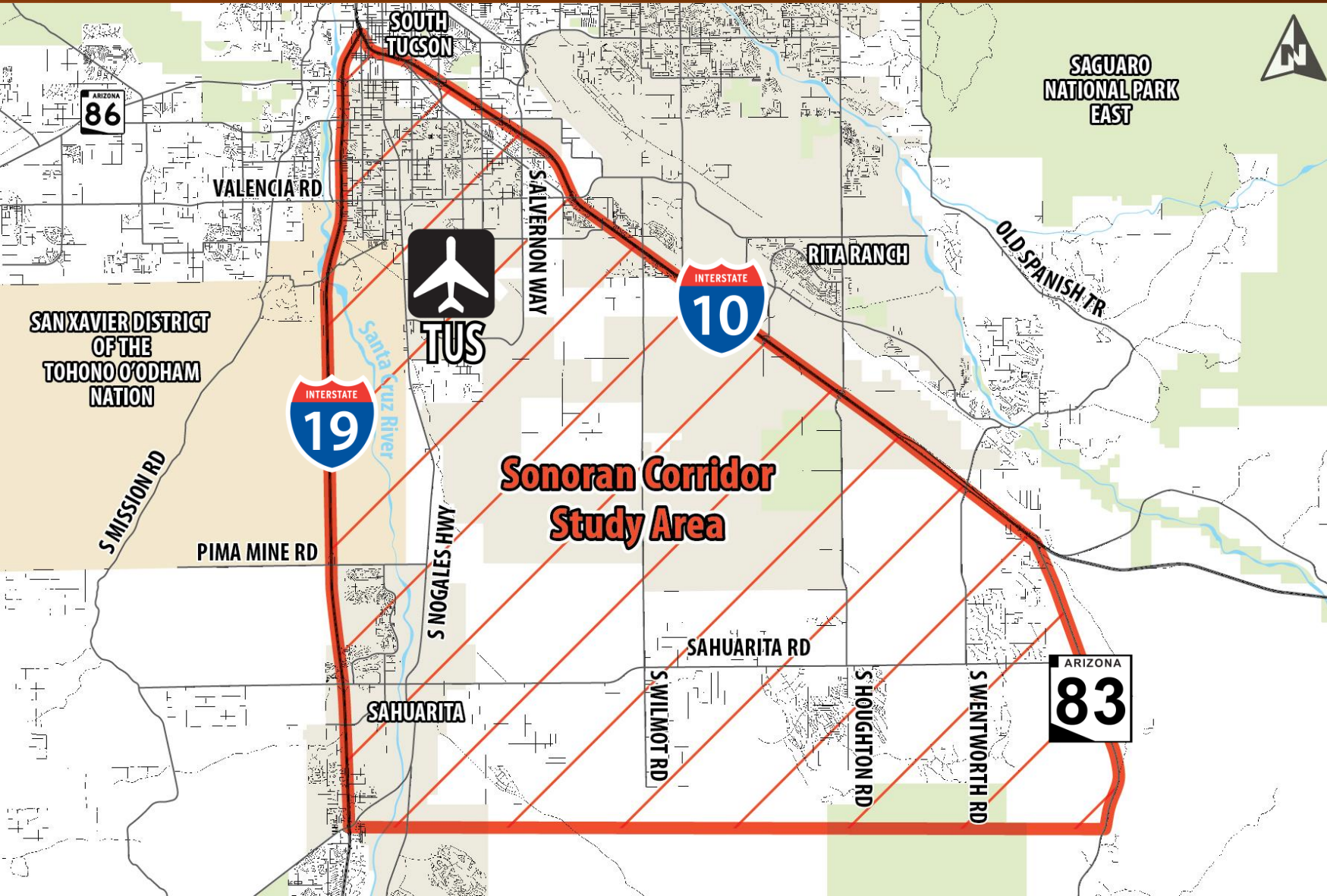
- Multiple ADOT Studies between Nogales, Tucson, and Phoenix areas
- Tucson Metropolitan Area Studies:
 - Interstate 11
 - Interstate 10 and State Route 210
 - Sonoran Corridor

Study Clarification



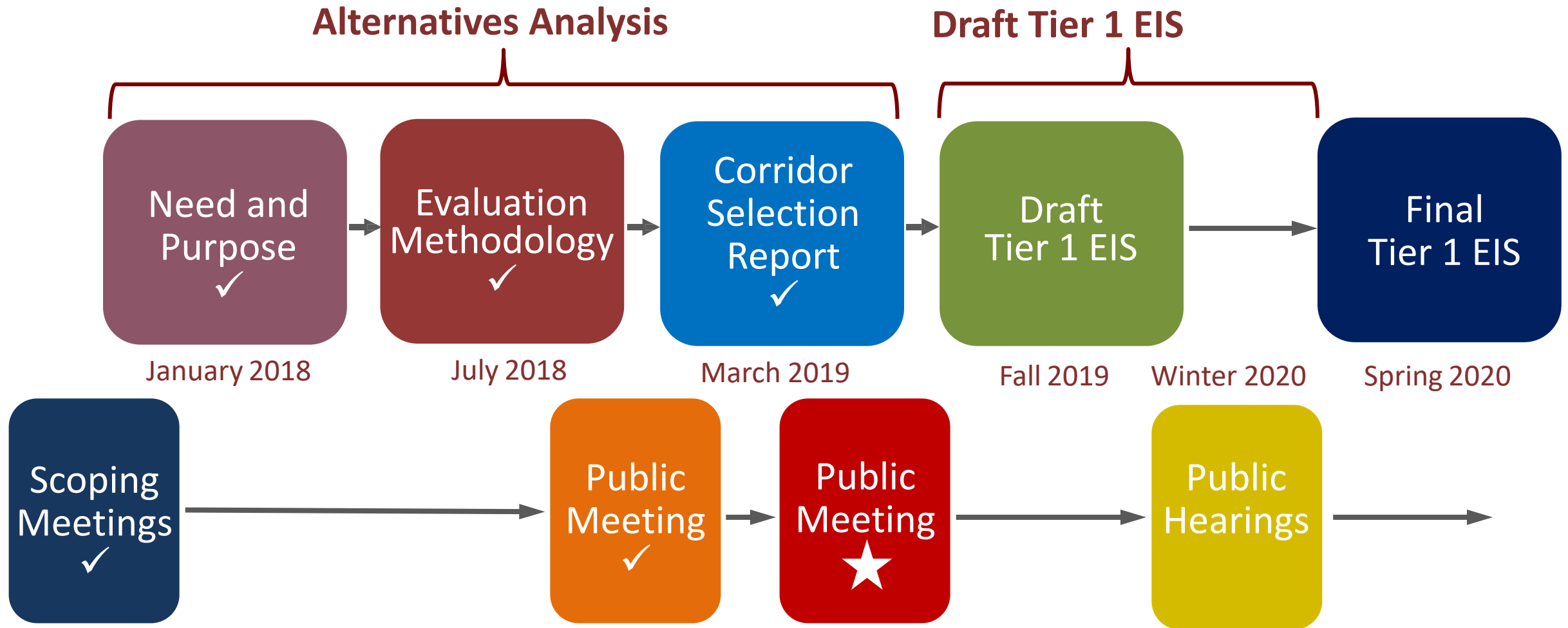
- The Sonoran Corridor Study is separate from the I-11 or I-10 studies currently underway
- Comments related to I-11 should be directed to 1-844-544-8049 or I-11ADOTStudy@hdrinc.com
- Comments related to I-10 should be directed to 1-888-692-2678 or i10SR210Study@hdrinc.com

Study Area



The Sonoran Corridor was designated by Congress in the FAST Act as a high priority corridor connecting I-19 to I-10, south of Tucson International Airport

Study Process and Status



Project Review: Need and Purpose

Need

- Projected substantial population and employment growth in the corridor
- Additional system linkages for regional and interstate mobility
- Reduced congestion and increased roadway capacity

Purpose

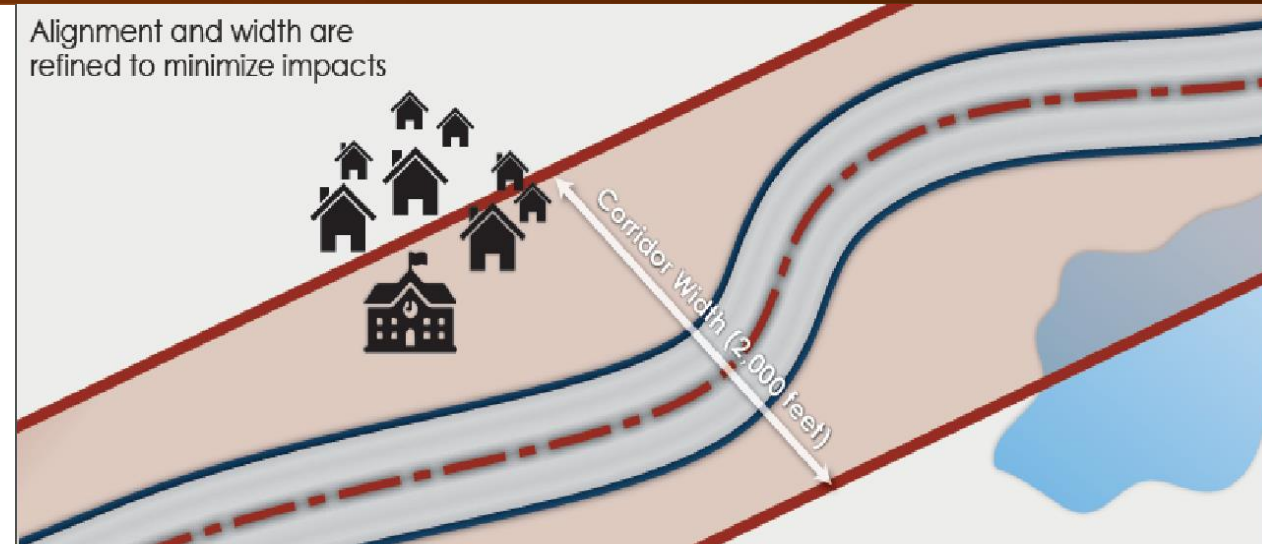
- Accommodate future travel demand
- Provide alternate direct connection between I-10 and I-19 south of Tucson Airport to reduce commercial and commuter travel times and cost
- Improve 2045 Level of Service within study area

Project Analysis: Tier 1 and Tier 2 Studies



Tier 1

- Programmatic analysis
- Broad study area and range of issues
- Selected alternative sets framework for future investment



Tier 2

- Project level/Site-specific analysis
- Involves agencies and public
- Allows phased implementation

Overview of FHWA/ADOT Sonoran Corridor Study: Environmental Elements Considered



- Air Quality
- Biological Resources
- Archeological, Historic and Cultural Resources
- Social and Economic
- Land Ownership, Jurisdiction and Land Use
- Noise
- Impact on public lands, parks, recreation, historic sites, wildlife refuges
- Impact on Conservation Lands and Waterways
- Visual Resources
- Water Resources
- Utilities

Project Review: Evaluation Categories



- **Anticipated Growth**
- **Mobility**
- **System Linkages**
- **Economic Benefit**
- **Environment**
- **Constructability**

September 26, 2018 Public Meeting



- **84 members of the public attended**
- **12 comment forms were received**
- **57 email comments received after the meeting**

September 26, 2018 Public Meeting

Comments:

- Support for Alternative 1, 4, and 7
- Emphasis on economic development opportunities
- Concerns with impact to residential properties and environment
- Comments at meeting led to consideration of two additional alternatives



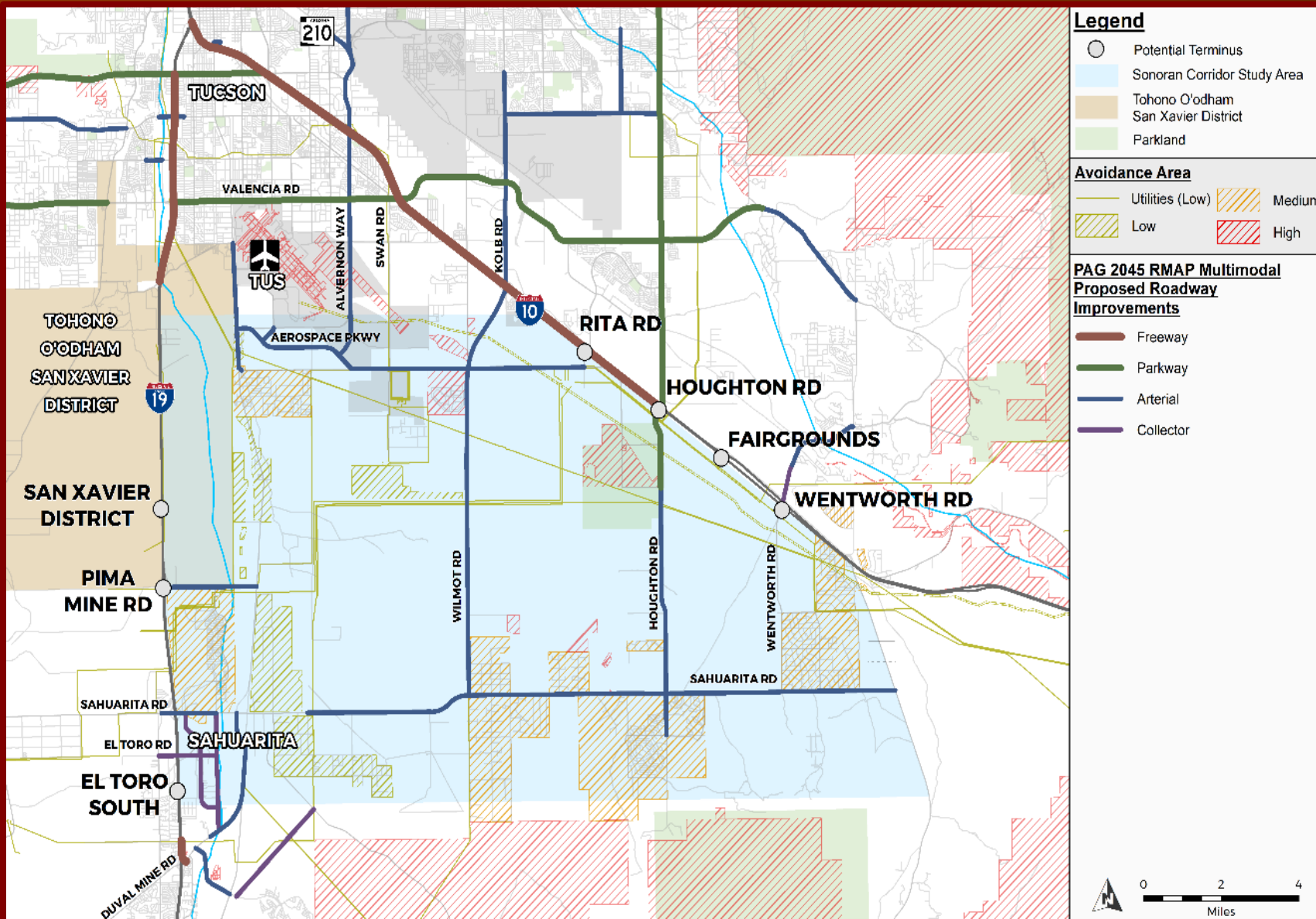
How We Use Public Input

- **Document, categorize and analyze all comments to identify themes and trends**
- **Compile into a public meeting report that includes comments and Q&A summary**
- **Comments received by April 7, 2019 become part of the meeting report**
- **Report will be available to view online in May at: azdot.gov/sonorancorridor**

Tribal Outreach

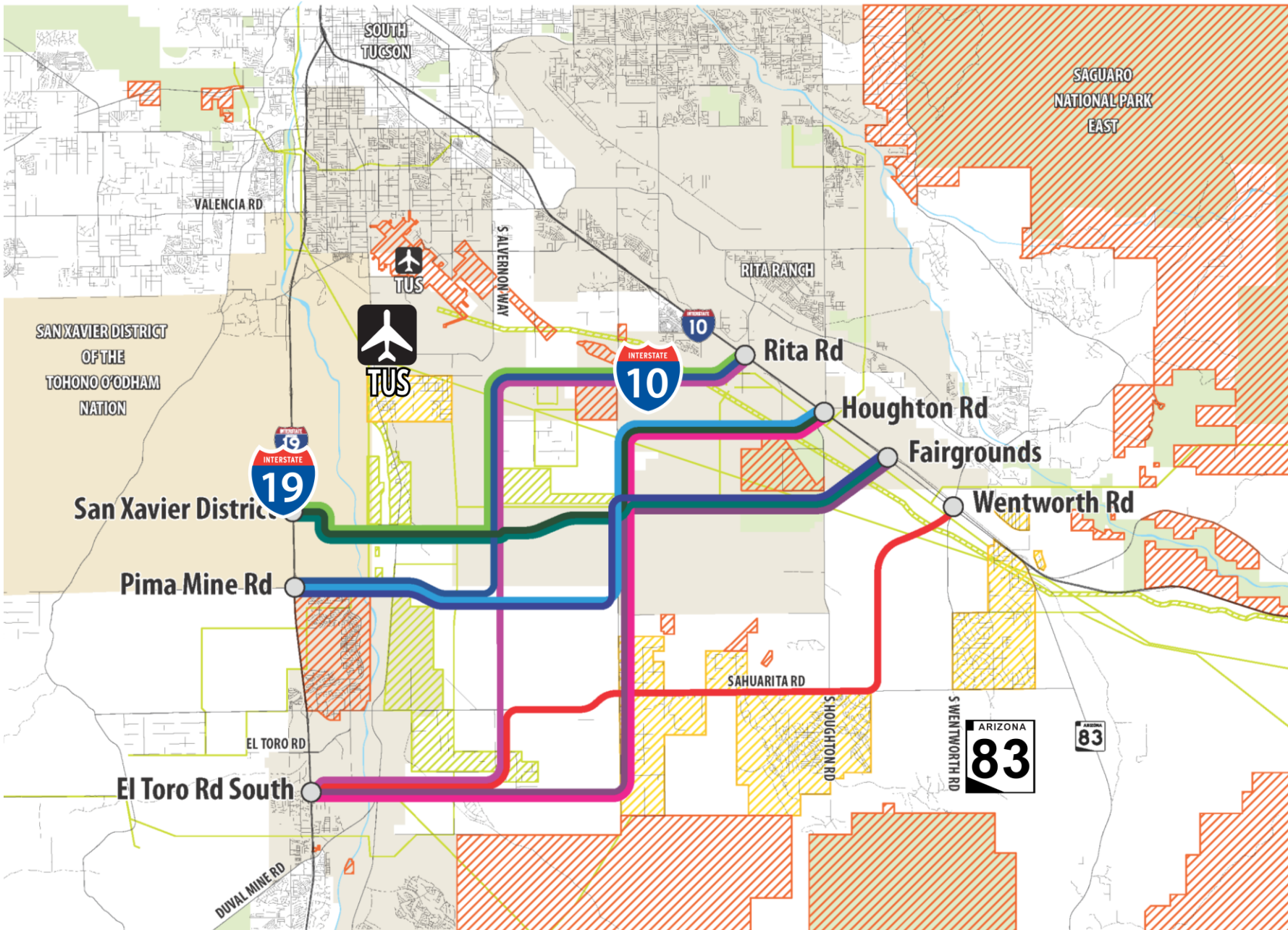
- **Western edge of Alternative 1 crosses Tribal lands on the Tohono O'odham Nation (TON) San Xavier District (SXD)**
- **Coordination with TON-SXD and Allottee Association has been ongoing**
- **Meetings ongoing with allottees to assess preferences of local property owners regarding potential corridor**
- **Decision by allottees could influence the decision of which corridor is preferred**

No-Build Alternative



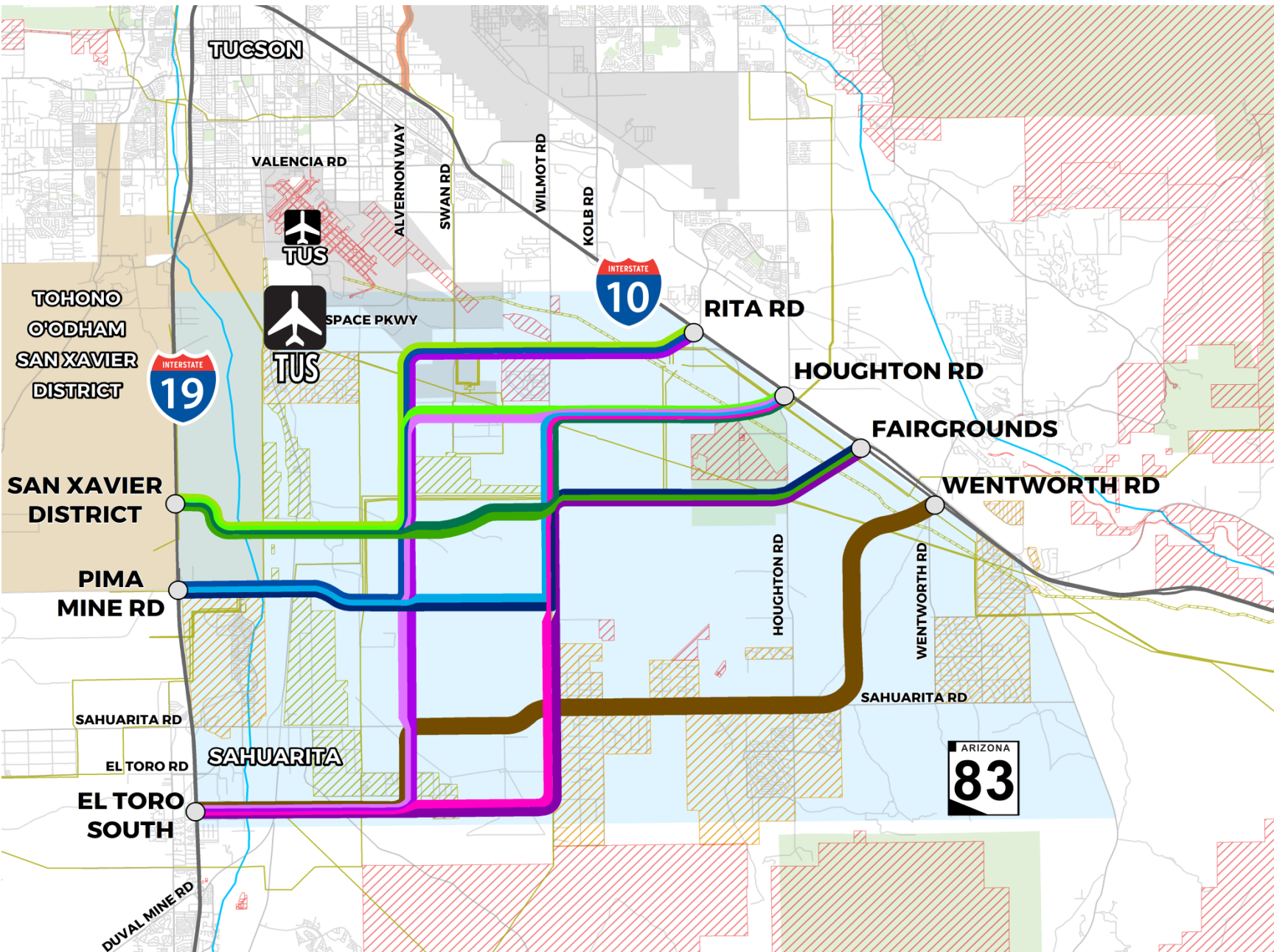
- No-Build alternative reflects the transportation network in 2045 without the Sonoran Corridor
- Tier 1 Environmental Impact Statement will analyze No-Build alternative and Reasonable Range of Corridors

Optimized Corridor Alternatives Presented at 9/26/18 Meeting



- 10 Corridors were analyzed with the Evaluation Screening Criteria

Optimized Corridors after the 9/22/2018 Public Meeting



- 2 Corridors were added (total of 12) to the analysis based on the public input connecting San Xavier District (Alt 2a) and El Toro South (Alt 8A) with Houghton Road

Screening Results

Category	Criteria	Alt 1	Alt 2	Alt 2A	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 8A	Alt 9	Alt 10
G - Growth and Community Acceptance	Criterion G-1: Compatibility with Local Plans (rating value)	5	5	5	5	3	3	3	5	5	5	5	1
	Criterion G-2: Public and Agency Support (rating value)	5	3	3	3	1	1	1	3	3	3	3	1
	Criterion G-3: Compatibility of Corridor with Underlying Property Ownership	4	6	6	3	7	8	6	7	9	9	6	5
	Criterion G-4: Employment Served	75,448	40,089	41,659	25,255	79,657	44,505	28,951	91,118	53,546	57,329	28,951	26,827
M – Mobility	Criterion M-1: Travel Demand: Daily vehicle trips	20,254	21,624	20,357	13,323	23277	22,994	17,284	24,029	20,648	21,656	17,061	13925
	Criterion M -2: Travel Demand – Daily truck trips	1,003	905	908	627	1,403	963	790	1,154	836	987	773	656
	Criterion M-3: Reduction of truck volume on Interstate facilities	0	0	0	0	0	0	0	0	0	0	0	0
	Criterion M-4: Travel Time	21.8	21.1	21.5	19	19.9	19.2	16.7	21.1	21	20.3	18.8	16.7
	Criterion M-5: Congestion Reduction	0.024	0.027	0.038	0.028	0.024	0.017	0.020	0.054	0.031	0.061	0.031	0.041
	Criterion M-6: Improved access to TUS (compared to No Build)	3,746	-1,107	5,710	-1,250	5,002	-744	-533	10,118	-411	8,290	-538	-116
	Criterion M-7: Multimodal Connectivity	3	1	3	1	3	1	1	1	1	1	1	1
SL – System Linkages	Criterion SL-1: Contribution to network and access	76.75	93.91	85.22	106.67	69.02	87	104.88	66.59	88.92	75.62	109.47	149.97
EB - Economic Benefits	Criterion EB- 1: Access to jobs and revenue potential	8	6	6.5	4	8	6	4	9	7.5	7.5	4	5
E – Environmental	Criterion E-1: Sensitive noise receptors	13	5	78	3	1,320	1,313	1,306	228	370	589	378	1,027
	Criterion E-2: residences potentially affected	5	2	52	0	469	465	459	68	185	81	193	546
	Criterion E-3: historic/cultural/ archaeological resources	141	134	57	113	63	48	72	34	39	40	37	47
	Criterion E-4: wetlands/floodplains/ rivers/ washes/arroyos	79,149	88,257	130,627	84,709	92,574	136,116	132,567	231,897	270,160	262,184	266,611	280,722
	Criterion E-5: wildlife corridors (rating value)	3	3	3	5	3	3	3	1	1	1	1	1
	Criterion E-6: biological resources which may be affected	2.39	4.04	3.82	4.14	3.67	4.16	4.27	4.17	4.41	4.32	4.48	4.59
	Criterion E-7: existing environmental justice populations	27,383	18,902	18,902	12,142	40,274	31,793	25,033	39,285	35,538	35,539	28,778	31,605
	Criterion E-8: Greenfield sites – emphasis on use of existing corridors	2,427	2,457	3,135	3,320	2,304	2,816	2,785	3,004	2,235	3,906	2,710	2,069
IF - Implementation Feasibility	Criterion IF-1: Construction Elements	420	424	639	479	827	804	895	456	587	495	604	1,425
	Criterion IF-2: Property Acquisition/Access Considerations (rating value)	3.604	3.161	3.547	3.212	3.903	3.511	3.566	3.799	3.714	3.75	3.75	3.58

Screening Results

Category	Alt 1	Alt 2	Alt 2A	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Alt 8A	Alt 9	Alt 10
G - Growth and Community Acceptance	●	◐	◐	◐	◐	◑	◑	◐	◐	◐	◐	◑
M – Mobility	◑	◑	◐	○	◐	◑	◑	◐	◑	◐	◑	◑
SL – System Linkages	●	◐	◐	◐	●	◐	◐	●	◐	●	◐	○
EB - Economic Benefits	●	◐	◐	○	●	◐	○	●	●	●	○	○
E – Environmental	◐	◐	◐	◐	◐	◐	◑	◐	◐	◑	◐	◑
IF - Implementation Feasibility	◐	◐	◐	◐	◑	◑	◑	●	●	●	●	◑
Total Corridor Rating	●	◐	◐	○	◐	◐	○	●	◐	●	◐	○

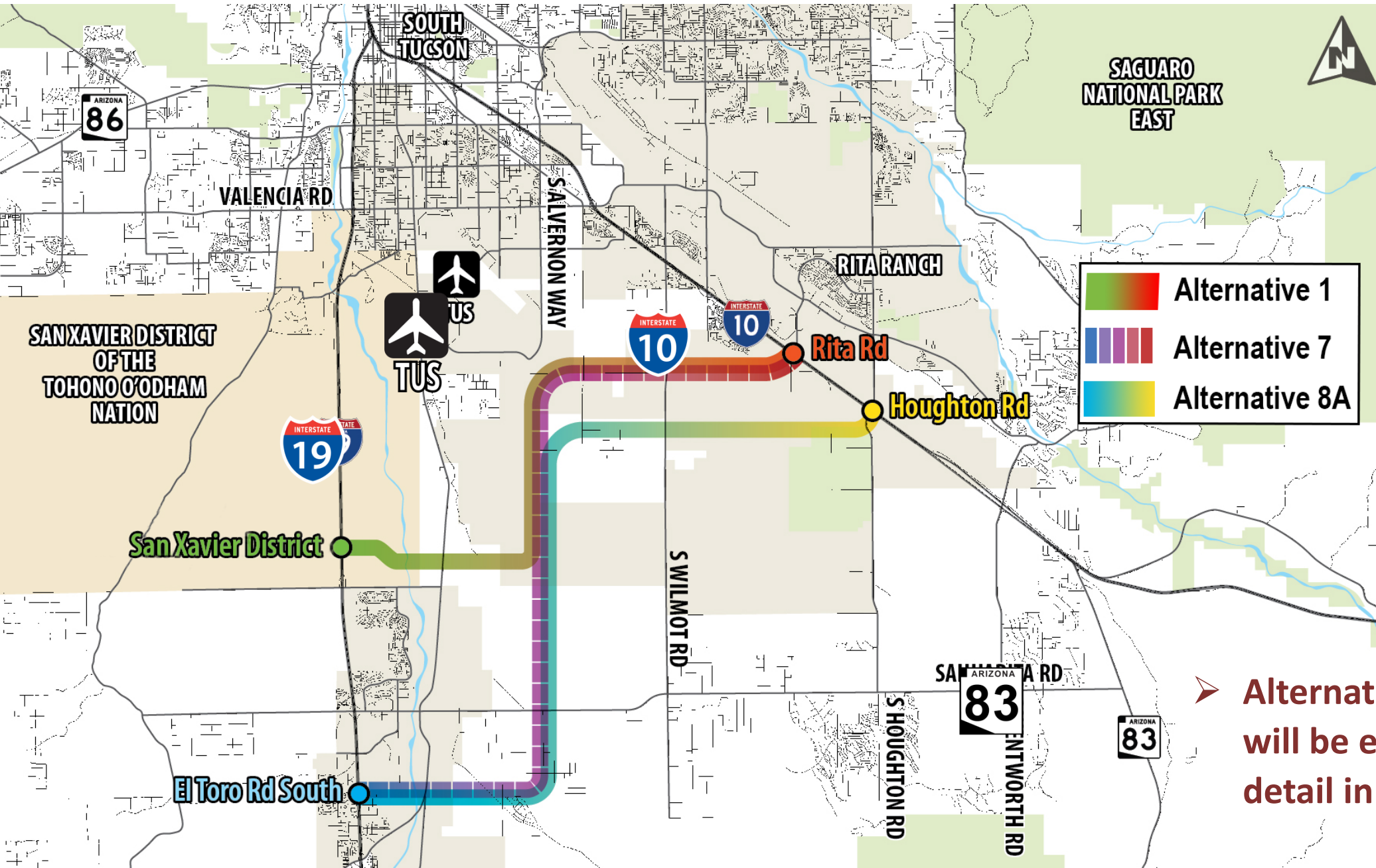


PERFORMS BEST



PERFORMS WORST

Recommended Reasonable Range of Alternatives for further Study



➤ Alternatives 1, 7 and 8A will be evaluated in more detail in the Tier 1 EIS

Tier 1 EIS: Next Steps

The National Environmental Policy Act ensures transparency and disclosure of the environmental analysis of a federally designated study.

Next steps include:

- Compile and analyze public meeting comments
- Perform technical environmental analysis of the Reasonable Range of Alternatives
- Produce Draft EIS compiling environmental analysis, with alternatives anticipated to be narrowed to a preferred corridor or “no build” option
- Present Draft EIS to stakeholders and public for review

Key Milestones Timeline

- *Public and Agency Scoping Meetings – June 2017*
- *Need and Purpose – Completed January 2018*
- *Evaluation Methodology – Completed July 2018*
- *Refined List of Corridors and Public Meeting – September 2018*
- ****Range of Reasonable Corridors* – March 2019***
- **Corridor Selection Report – April 2019**
- **Draft Tier 1 Environmental Impact Statement – Fall 2019**
- **Public Hearings – Winter 2020**
- **Final Tier 1 Environmental Impact Statement/Record of Decision – Spring 2020**

How to Comment

- **Telephone:** 1.855.712.8530 (Toll Free)
- **Email:** sonorancorridor@azdot.gov
- **Mail:**
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1221 S. Second Ave., Mail Drop T100,
Tucson, AZ 85713
- **Online:** azdot.gov/sonorancorridor