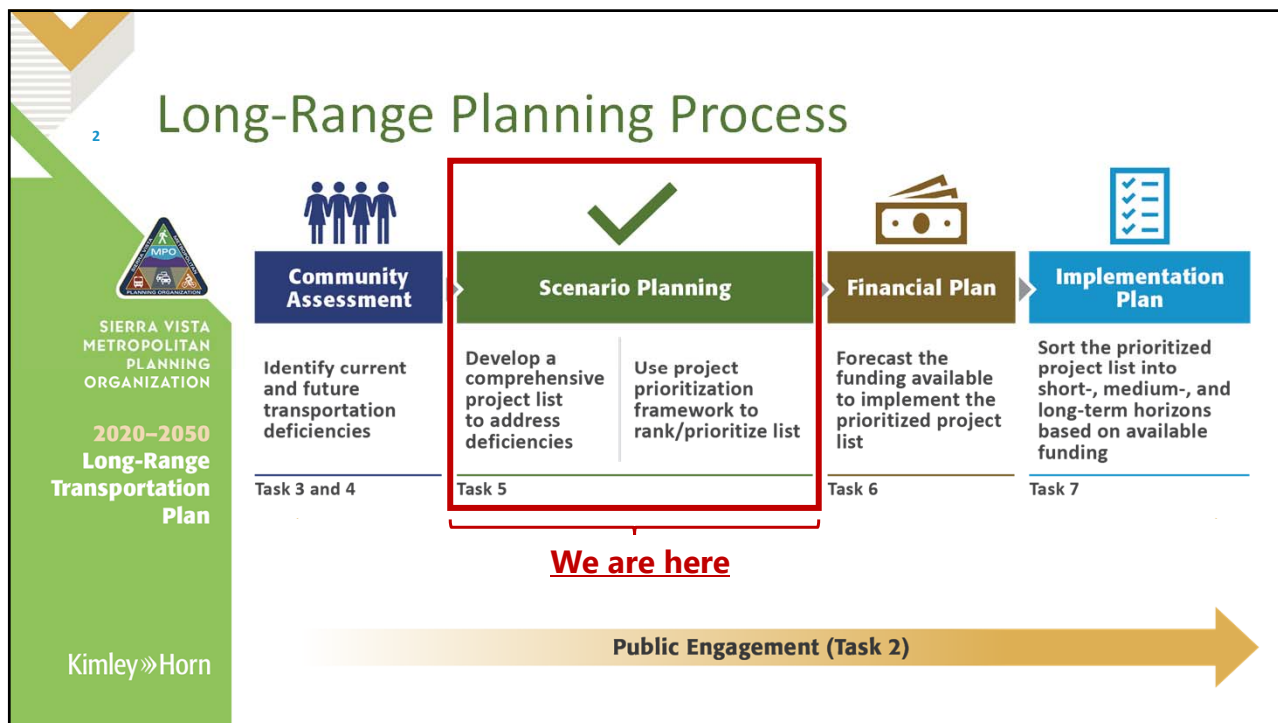




1



2

3

Project Progress

SIERRA VISTA
METROPOLITAN
PLANNING
ORGANIZATION

**2020-2050
Long-Range
Transportation
Plan**

Kimley»Horn

- Regional goals and priorities
 - ADOT goals and performance measures
 - SVMPO regional goals
- System assessment
 - Socioeconomic data
 - Roadway conditions
 - Traffic characteristics
 - Safety trends
 - Transit
 - Bicycle and pedestrian networks
 - Freight routes
 - Aviation and railroad conditions
- Regional travel demand model
 - Calibrated base year model
 - Demographic forecast
 - Baseline 2050 model

3

4

Scenario Planning Task Work Plan

SIERRA VISTA
METROPOLITAN
PLANNING
ORGANIZATION


**2020-2050
Long-Range
Transportation
Plan**

Kimley»Horn

4

5

1. Develop Universe of Projects




SIERRA VISTA METROPOLITAN PLANNING ORGANIZATION
2020-2050 Long-Range Transportation Plan
Kimley»Horn

- Spreadsheet sent by SVMPO on January 15th
- Projects assembled from
 - Previous planning documents
 - 2016 SVMPO LRTP
 - 2015 Cochise County LRTP
 - Other past SVMPO plans
 - Advocacy groups
 - Transportation deficiencies identified in Community Assessment
- We need your local knowledge to add/remove/modify projects

5








6

2. Roadway Capital Project Prioritization Scheme



SIERRA VISTA METROPOLITAN PLANNING ORGANIZATION
2020-2050 Long-Range Transportation Plan
Kimley»Horn

- Based on **regional priorities** adopted by SVMPO Board.
- All priorities receive **equal weight** in prioritization.
- Datasets to **quantitatively measure** each priority identified.

	Regionally Significant • Project connects multiple classified roadways
	Safety • Crashes by severity • Implements a FHWA proven safety countermeasure
	Vehicle and Freight Mobility • Existing and forecasted V/C ratio • Existing truck volume
	System Preservation • Pavement and bridge condition (poor, fair, good) • Addresses known flooding issue
	Economic and Community Connectivity • Serves major employment center or Fort Huachuca • Within 1/4 mile of a park/recreational area, school, or medical facility
	Multimodal Integration and Accessibility • Project includes elements that improve bus, bicycle, or pedestrian facility • Connects multiple multimodal facilities/connections
	Sustainable Environment and Social Investment • Provides element identified in Sustainable Highways by FHWA • Improves access to vulnerable population groups

6

3. Prioritization Spreadsheet

• Example screenshot from completed spreadsheet

Project Number	Primary Route	From	To	Project Description	Functional Classification	Length (mi)	Urbanizing or Rural?	Safety				Operational Efficiency			
								Fatal Crashes	Injury Crashes	PDO Crashes	Weighted Safety Score	Current (2020) V/C Ratio	Forecasted (2040) V/C Ratio	Number of Classified Roadway Connections	Weighted Operational Efficiency Score
1	CR 166 Ext	CR 29	Kiowa-Bennett Rd	Construct new paved roadway connection	Local	4.9	Urbanizing	1	4	5	48.8	0.00	0.36	2	33.3
2	CR 174 Ext	CR 13	CR 29	Pave roadway and construct new paved connection	Local	3.0	Urbanizing	0	3	1	0.2	0.01	0.01	1	9.4
3	CR 17 Ext	CR 186	CR 174	Construct new paved roadway connection	Local	3.0	Urbanizing	0	0	1	0.0	0.00	0.02	1	9.3
4	CR 17 Ext	CR 174	CR 166	Construct new paved roadway connection	Local	2.0	Urbanizing	0	0	0	0.0	0.00	0.01	1	8.8
5	CR 186	CR 1	CR 17	4" mill and overlay	Major Collector	4.1	Urbanizing	0	2	9	0.1	0.15	0.21	2	36.0
6	CR 17	CR 186	CR 194	Reconstruct and pave roadway	Major Collector	2.1	Urbanizing	0	0	2	0.0	0.02	0.03	2	19.3
7	CR 21	CR 166	CR 154	4" mill and overlay	Major Collector	3.0	Urbanizing	0	3	15	0.3	0.17	0.24	2	38.7
8	CR 154 Ext	CR 13	CR 29	Pave roadway and construct new paved connection	Minor Collector	3.9	Urbanizing	0	1	12	0.1	0.22	0.31	4	61.8
9	CR 146 Ext	CR 13	CR 17	Pave roadway and construct new paved connection	Minor Collector	1.9	Urbanizing	0	2	2	0.2	0.10	0.14	3	37.9
10	CR 17	Bonnie Ridge Rd	CR 146/CR 13	Pave/improve roadway	Minor Collector	2.1	Urbanizing	0	3	2	0.3	0.29	0.40	3	62.1
11	CR 21	SR 86	CR 154	4" mill and overlay	Major Collector	4.0	Urbanizing	0	3	14	0.2	0.13	0.19	2	33.8
12	CR 154 Ext	CR 29	Kiowa-Bennett Rd	Construct new paved roadway connection	Local	3.9	Urbanizing	0	1	2	0.1	0.00	0.15	2	23.6
13	CR 154 Ext	Kiowa-Bennett Rd	Comanche Creek Rd	Pave roadway and construct new paved connection	Local	5.9	Urbanizing	0	0	0	0.0	0.01	0.08	2	21.0
14	CR 29/CR 33/CR 150	SH 86	Sun County Dr	Pave/improve roadway	Minor Collector	11.2	Urbanizing	0	11	10	0.2	0.00	0.15	4	40.3
15	CR 146	CR 21	Kiowa-Bennett Rd	Improve/extend roadway	Local	5.6	Urbanizing	0	0	3	0.0	0.01	0.01	2	17.8
16	Bonnie Ridge Dr	CR 17	CR 21	Pave roadway	Local	1.2	Urbanizing	0	1	3	0.2	0.01	0.01	2	17.8
17	Forest Park Dr/Pinon Dr	SH 86	Canyon Trl	Pave roadway	Local	1.6	Urbanizing	0	2	2	0.2	0.01	0.01	2	17.8
18	Savage Rd	Pavnee Pkwy	CR 13	Pave roadway	Local	1.3	Urbanizing	0	0	2	0.0	0.01	0.01	1	9.4
19	CR 29	Sun County Dr	CR 194	Roadway Improvement and Realignment of CR 29	Minor Collector	4.0	Urbanizing	0	7	10	0.3	0.08	0.11	1	18.6
20	CR 186 Ext	CR 17	CR 29	Pave roadway and construct new paved connection	Local	3.0	Urbanizing	0	1	2	0.1	0.05	0.10	3	32.8
21	CR 166	Comanche Creek Rd	Way of Peace	Construct new roadway connection	Local	4.0	Rural	0	0	0	0.0	0.00	0.08	1	12.0
22	CR 65	CR 166	CR 194	Pave/improve roadway	Minor Collector	7.0	Urbanizing	0	5	2	0.1	0.09	0.13	2	28.5
23	CR 166	Kiowa-Bennett Rd	Comanche Creek Rd	Pave/improve roadway	Local	5.0	Urbanizing	2	5	3	24.5	0.01	0.15	2	24.3
24	Comanche Creek Rd	CR 150	CR 166	Roadway Improvement/Reconstruct gravel road	Minor Collector	4.6	Rural	0	0	0	0.0	0.09	0.10	2	27.1
25	Comanche Creek Rd	SH 86	CR 150	Pave roadway	Minor Collector	5.6	Rural	0	3	2	0.1	0.09	0.10	2	27.1
26	CR 150	Comanche Creek Rd	CR 85	Pave roadway/flooding issues	Minor Collector	4.6	Rural	0	4	1	0.2	0.06	0.07	1	15.4


7

4. Use Regional Travel Demand Model

- Identify which projects may have major regional impacts
 - Widening or narrowing of existing roadways
 - New roadway connections
- Run roadway scenarios through 2050 model

8

9

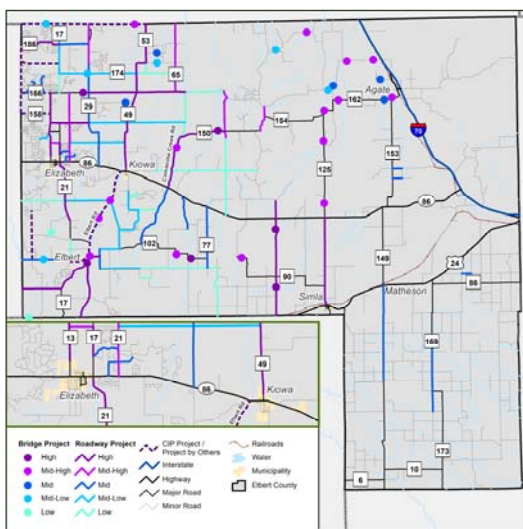


SIERRA VISTA
METROPOLITAN
PLANNING
ORGANIZATION

2020-2050
Long-Range
Transportation
Plan

Kimley»Horn

5. Prioritize Projects




Example project prioritization map

- Complete the prioritization spreadsheet using:
 - Input datasets from Step 2
 - Travel demand model results from Step 4
- Result: Initial prioritized project list

9

10

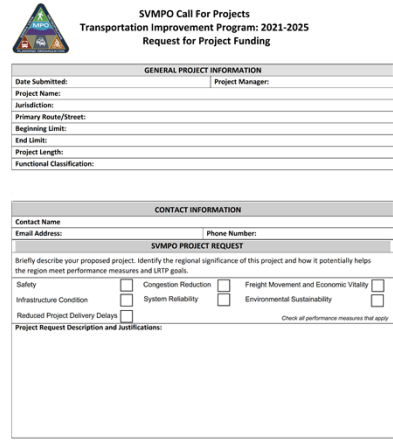


SIERRA VISTA
METROPOLITAN
PLANNING
ORGANIZATION

2020-2050
Long-Range
Transportation
Plan

Kimley»Horn

6. Update Project Nomination Form



Current SVMPO Project Nomination Form

- Modify the current project nomination form to include:
 - Regional priorities
 - Datasets required for the prioritization spreadsheet tool
- Allows for continued updating of prioritization between LRTP updates

10

11

Steps to a Completed LRTP



SIERRA VISTA
METROPOLITAN
PLANNING
ORGANIZATION

2020–2050
Long-Range
Transportation
Plan

Kimley»Horn

- Financial Plan
 - SVMPO revenue forecasting
 - Project cost estimate development
- Implementation Plan
 - Compare revenues to project costs
 - Develop fiscally-constrained project list through 2050
- Draft and Final Plan Document
- Adoption