SR 227 Operational Study Public Workshop #2

- Study administered by SLOCOG
- In partnership with SLO County, SLO City, and Caltrans

May 24, 2016



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SR 227 Operational Study Objectives

- Establish Short- and Long-Term Investment Priorities
 - Regional Transportation Plan Update
 - STIP Funding Programmed
 - SLOCOG Sales Tax Measure

May 24, 2016









SR 227 Operational Study Study Team



















SR 227 Operational Study Tonight's Agenda

- Introductions (5 min)
- Power Point Presentation (20 min)
- Corridor Improvement Concepts (10 min)
- Break (10 min)
- Live Polling (40 min)



Next Steps and Good Night (5 min)



SR 227 Operational Study Public Involvement Process

- Workshop #1 November 19, 2015
 - Overview of study and study objectives
 - Receive input in specific issues and concerns
 - Interactive Web-based tool
- Workshop #2 May 24, 2016
 - Update on Technical Studies
 - Receive input on Corridor Improvement Concepts
 - Next steps





Caltrans Resurfacing Project

- From Price Canyon Road to 1/2 mile north of Buckley Road
- Schedule revised from December 1, 2015 to May 2016 (weather permitting)
- Lane closures both directions Mon-Thur 8am-4pm and Friday 8pm-1pm. Road work will occur Mon-Thur 7pm-6am.
- Restripe the north leg of SR 227 to allow greater two-stage turn storage refuge for motorists turning left out of Crestmont Drive. Preclude left turns out of Winery driveway add signage and striping. Completed in December.





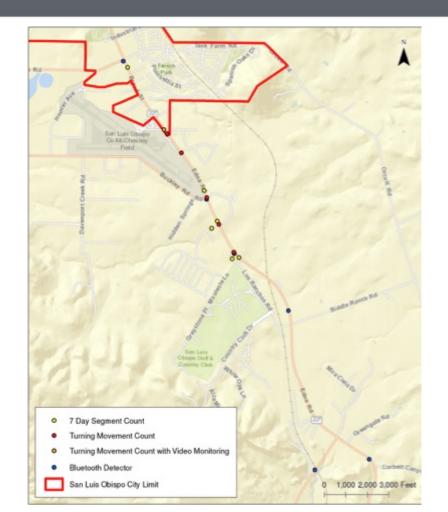
Data Collection (January 2016)

- AM/Midday/PM Intersection turn counts (video)
 - Six intersections
- AM/Midday/PM Queue lengths and Gap Acceptance (video)
 - Six intersections (queues)
 - One intersection Gap Acceptance
- 7-Day-24-hr continuous segment counts (hoses)
 - Six segments (SR 227, Los Ranchos Road, Crestmont Drive)
- 4-Months of Travel Speeds and Travel Times (Bluetooth)
 - Six locations (SR 227 and Price Canyon Road)





Data Collection







Intersection Analysis

- Existing Conditions Intersection Operations
 - Crestmont Drive and Los Ranchos LOS F
 - All Other intersections at LOS D
 - > 50 vehicle 95th percentile queues on SR 227 at: Buckley (NB/SB) & Los Ranchos (NB/SB);
 - > 12 vehicle percentile queues: Crestmont (EB) & Los Ranchos (EB)
 - Measured Crestmont Drive 10 vehicle queue
 - → Measured Kendall Road 5 vehicle queue
- 2035 Intersection Operations
 - **▶** Farmhouse Lane and Buckley − LOS F and LOS E
 - > 60 vehicle 95th percentile queues: Buckley (NB/SB) & Los Ranchos (NB/SB);
 - > 15 vehicle 95th percentile queues: Crestmont (EB) & Los Ranchos (EB)



Intersection Analysis

- ✓ Signal Warrant Analysis (Peak Hour Warrant #3)
 - → SR 227/Airport Road
 - Does not meet warrants
 - **尽** SR 227/Farmhouse Lane
 - **7** 2025 and 2035
 - **尽 SR 227/Kendall Road**
 - Existing, 2025 and 2035
 - **尽** SR 227/Crestmont Drive
 - Existing, 2025 and 2035





- Accident Warrant Analysis (Peak Hour Warrant #7)
 - No intersections met warrant



Bicycle LOS Analysis Intersections

- ✓ SR 227 & Airport (LOS C-D)
- ✓ SR 227 & Kendall (LOS C-D)
- SR 227 & Buckley (LOS C or Better except for East and West Leg (LOS D)

SR 227 & Crestmont (LOS F)



SR 227 & Los Ranchos (LOS C or better)



Pedestrian LOS Analysis Intersections

- → SR 227 & Kendall (LOS F)





SR 227 & Los Ranchos (LOS C or better)



Segment Analysis

- Existing Conditions Segment Operations
 - → AM Peak Hour Northbound: LOS E
 - AM Peak Hour Southbound: LOS C-D
 - PM Peak Hour Northbound: LOS C-D
 - PM Peak Hour Southbound: LOS E
- ▼ Future 2035 Conditions Segment Operations
 - → AM Peak Hour Northbound: LOS E
 - AM Peak Hour Southbound: LOS C-D
 - PM Peak Hour Northbound: LOS D-F
 - PM Peak Hour Southbound: LOS E-F



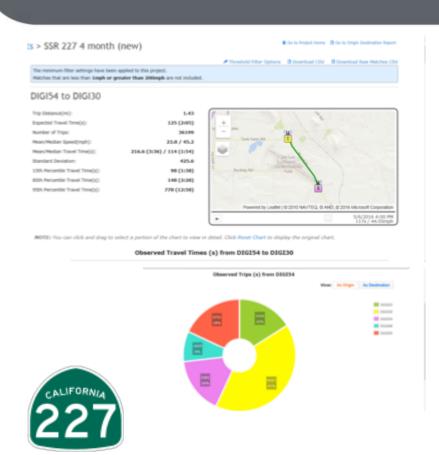


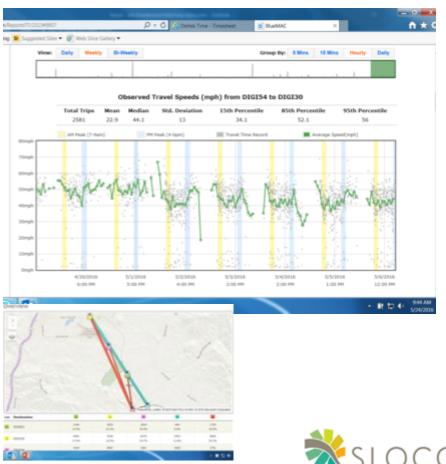
Safety Analysis

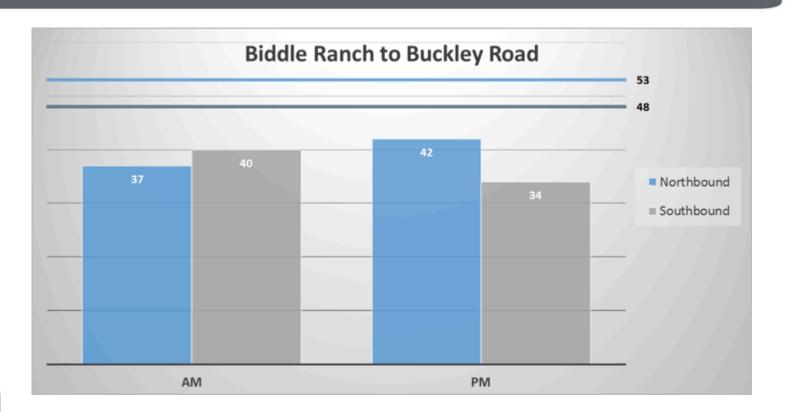
SWITRS (2012-2014) and TASAS (2011-2013) Data

- → Biddle Ranch to Los Ranchos Highest Crash Rate: 0.41 MVM
- Los Ranchos to Crestmont 2nd Highest Crash Rate: 0.35 MVM
 - ✓ Intersection of SR 227/Crestmont crash rates exceed statewide average for similar facilities
- Dominant collision type: rear-end (70% of all collisions)
- 25 total collisions between Biddle and Kendall (11 injury; 14 persons injured; 21 multi-vehicle collisions; 7 occurred at night; 3 under wet conditions)
- No fatal crashes in the study corridor (2011-2014)



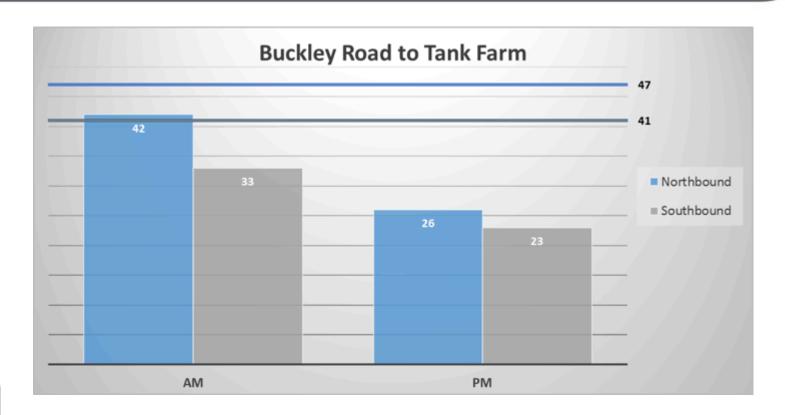






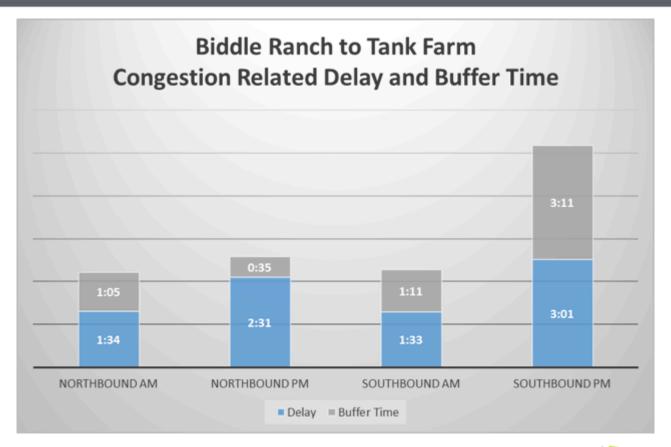










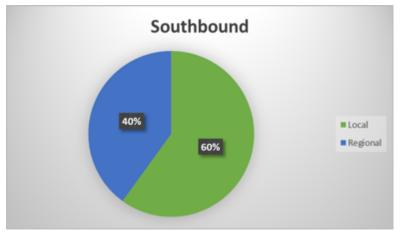


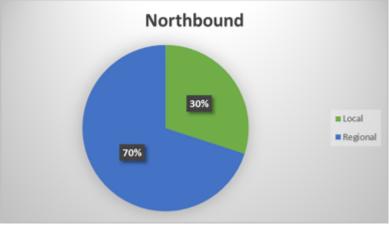




Travel Patterns (Bluetooth)

- 7 Travel between City of San Luis Obispo and Five Cities
 - Price Canyon is preferred route over SR 227: 1.54 ratio
- Local vs. Regional Traffic Using SR 227









Neighborhood Access

- Secondary Access for Crestmont Community
 - 95 vehicles exiting and 42 entering Crestmont Drive (AM Pk Hr)
 - **58** vehicles exiting and 90 entering Crestmont Drive (PM Pk Hr)



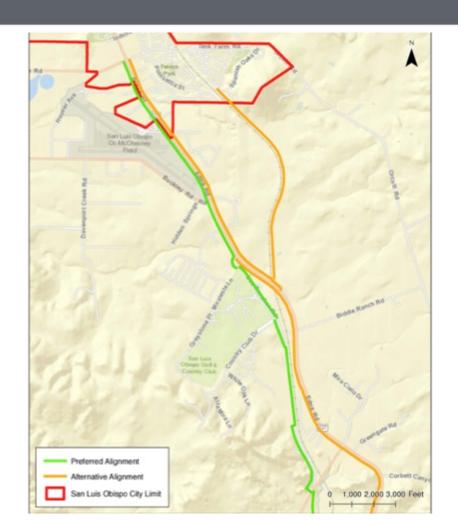






Multimodal Analysis

Edna-Price Canyon Multi-purpose Trail Preferred Alignment

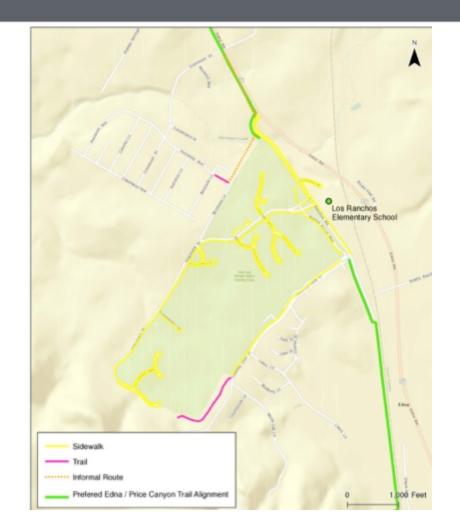






Multimodal Analysis

Neighborhood and School Pedestrian Connectivity







Multimodal Analysis

- Remote vs. Fringe Park-and-Ride Lot
 - Only 2% of Corridor Residents work within the Corridor (10 of 422 Source: Census)
 - → 43% Commute to the City of San Luis Obispo (180)
 - 9.5% Commute to Santa Maria (40)
 - Most commute less than 10 miles to work









Widen & Signalize Corridor Concept

- Pinch off access from Airport Drive convert Farmhouse Road to four-legged intersection.
- Signalize, synchronize and channelize intersections at Farmhouse Lane, Buckley, Crestmont, and Los Ranchos.
- Widen SR 227 to provide two through lanes in each direction (Farmhouse Road to s/o Los Ranchos Road).
- Restrict access to allow RI-RO-LI at Kendall Road and driveways.
- Encourage consolidation of private driveways.



Construct Edna-Price Canyon Trail from Crestmont to Aero Drive – if widening can occur to the east – Preferred Alignment is preserved; if not, potential need for selecting an alternative alignment.

Roundabout Corridor Concept

- Pinch off access from Airport Drive convert Farmhouse Road to four-legged intersection.
- No widening of mainline SR 227 convert intersection control to dual lane roundabouts at Farmhouse Lane, Buckley, Crestmont, and Los Ranchos.
- Lower design speeds through roundabouts (traffic calming)
- Restrict access to allow RI-RO-LI at Kendall Road and all driveways.
- Encourage consolidation of private driveways.
- 227
- Construct Edna-Price Canyon Trail from Crestmont to Aero Drive consistent with Preferred Alignment west of SR 227.



Roundabout Concept











40 mph

30 mph





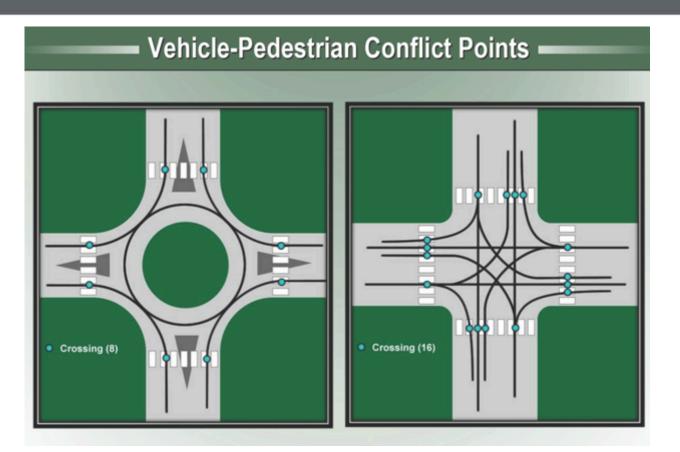
20 mph

15 mph

Figure 5.9. Driver focus at different speeds (Source: TGM 1999)

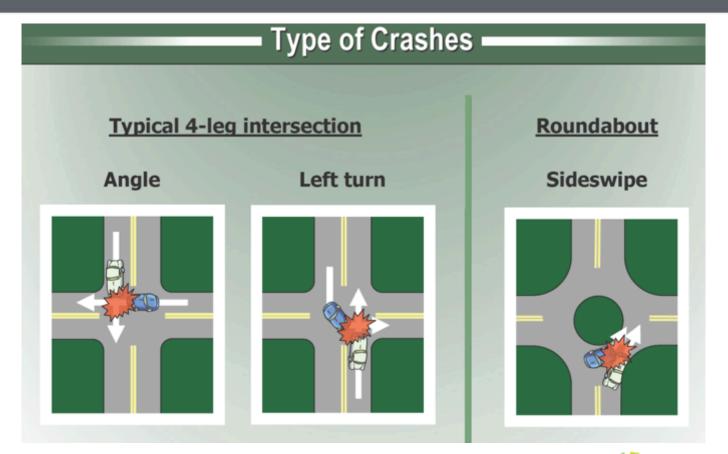






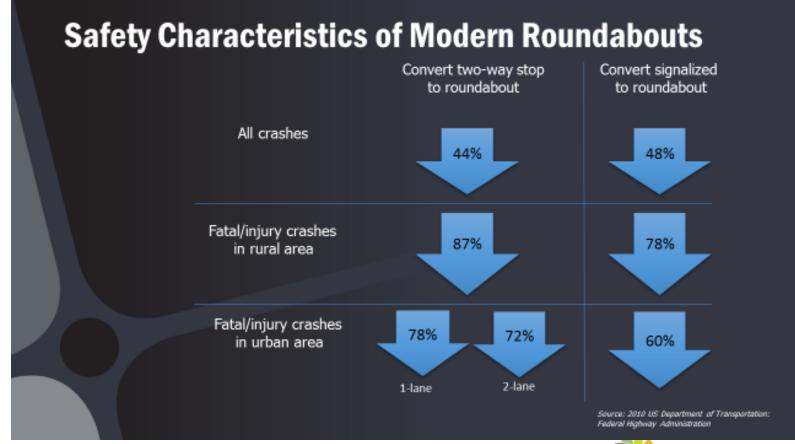






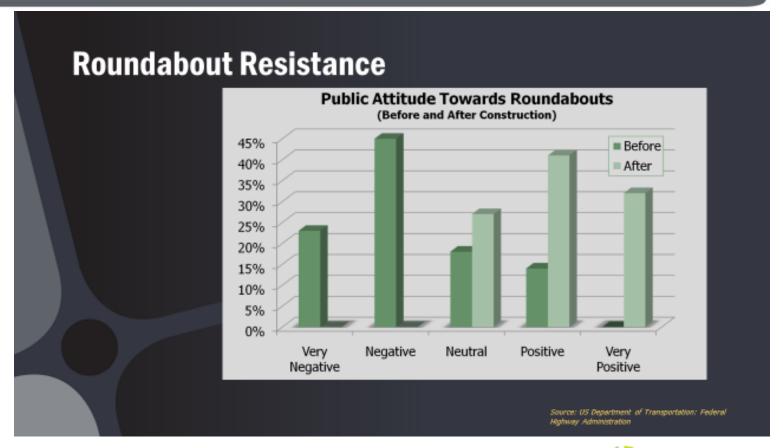














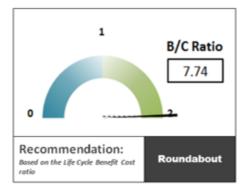


Next Steps: Intersection Control Evaluation

- What is most cost-effective corridor concept?
 - Widen and Signalize vs. Roundabout Corridor

	Preferred Intersection Control by Performance Measure					
Study Intersection	Safety	Delay	Ops. & Maint.	Emission	Capital Cost	B/C
San Miguel Canyon Road at Castroville Boulevard						
Laureles Grade at Carmel Valley Road		1		EQUAL		
Highway 68 at Corral de Tierra					1	







Next Steps Benefit – Cost Analysis

How will solutions be prioritized?

Travel
Time &
Buffer
Savings

Reduce
VMT
Safety

Enhance
Safety

Emissions
Health





Policy Consistency Environmental Sensitivity Community Support

Social Equity

Ancillary Benefits



Next Steps: Environmental Screening

Widen and Signalize Corridor vs. Roundabout Corridor

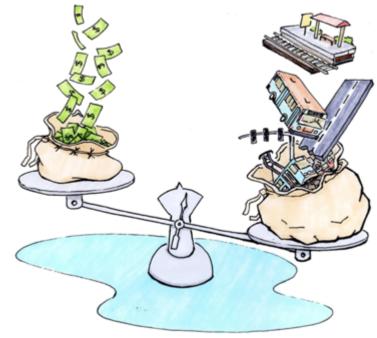






Next Steps: Change of Ownership

- Should the County take over management and maintenance of SR 227 from Caltrans?
- → How much would it cost??







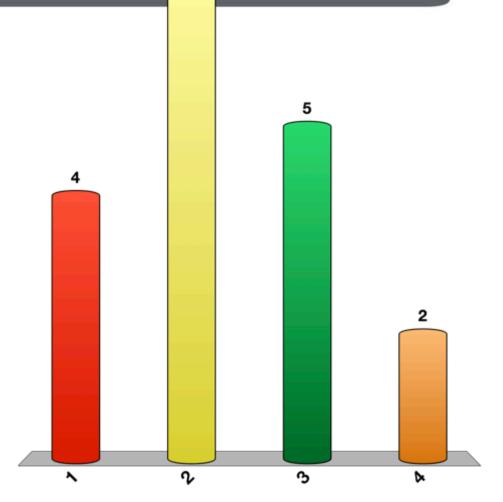
Short Intermission: Live Polling Begins in 10 min.





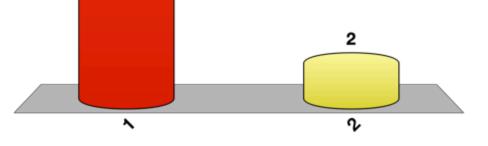
How many public workshops have you attended in the past?

- This is my first public workshop
- 2. A couple
- 3. I attend them regularly
- 4. I am a meeting machine!



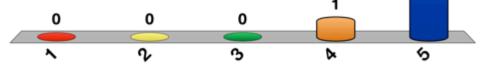
Did you attend our first SR 227 workshop back in November?

- 1. Yes
- 2. **No**



Which of these is MOST important to you tonight?

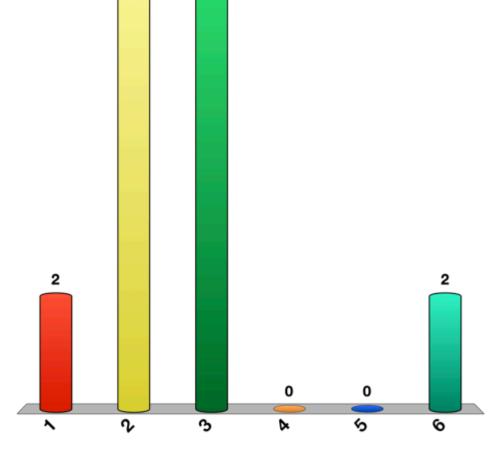
- 1. Getting home in time the last hour of "The Voice"
- Getting home in time to watch the Stanley Cup Playoffs
- Staying awake for the whole meeting
- Psyching up for public comments
- 5. Weighing in on the future corridor concept for SR 227



Where do you live?



- Unincorporated Crestmont Community
- Unincorporated Los Ranchos Area Community
- 4. Along SR 227 with driveway access
- Five Cities Area
- 6. Other

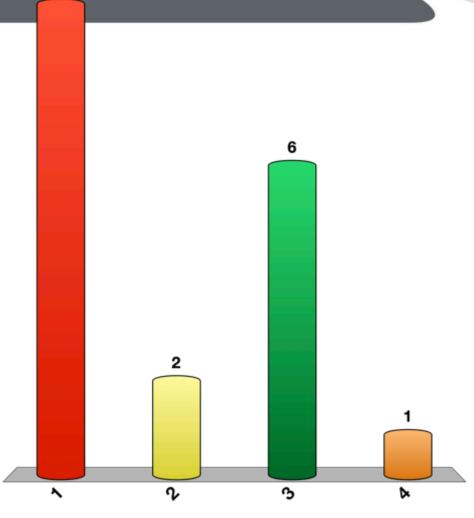


Regarding the SR 227 Rehab Project, what is your feedback on the restriping and signage performed in December?

- Problem solved thankyou!
- It has improved safety for motorists entering-exiting Crestmont Drive but a longer-term fix is still needed.
- It hasn't helped.

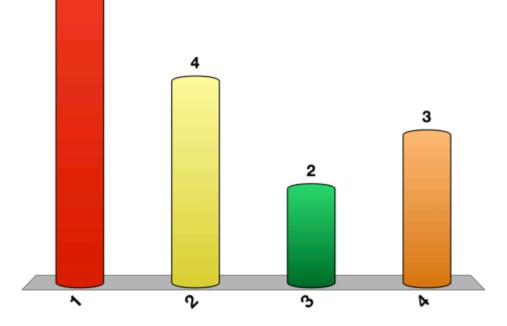
Would you support the proposed Edna-Price Canyon Multi-Purpose Trail combined with improvements to SR 227?

- 1. Yes
- 2. **No**
- Don't know
- 4. No opinion



If combined with traffic calming treatments to discourage cut-through traffic would you support providing secondary access to the Rolling Hills (Crestmont) community?

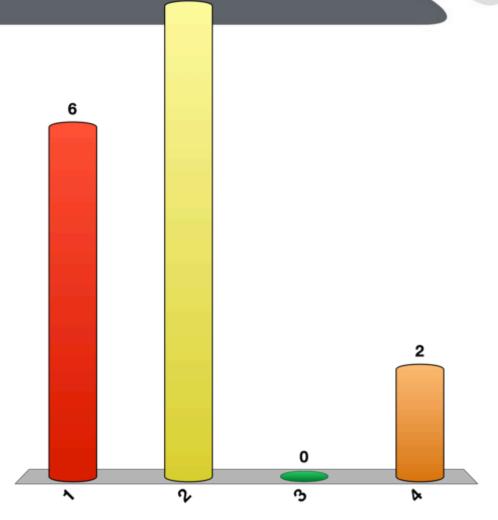
- 1. Yes
- 2. No
- Don't know
- 4. No opinion



Would you support providing fixed route transit service along SR 227 from the City of San Luis Obispo as far south as Los Ranchos?

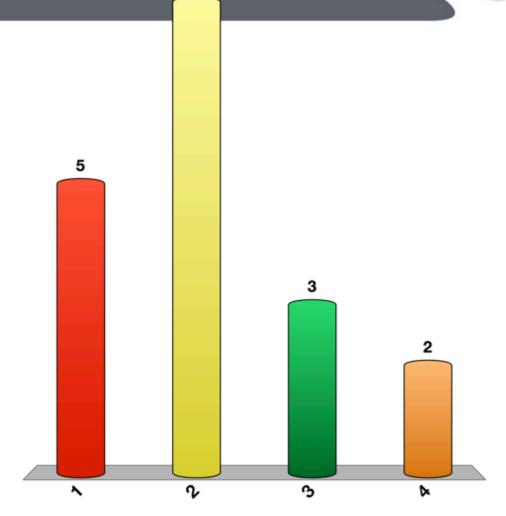


- 2. **No**
- 3. Don't know
- 4. No opinion



Would you support development of either a remote or fringe park-and-ride lot on the north end of the corridor (near Kendall Road)?

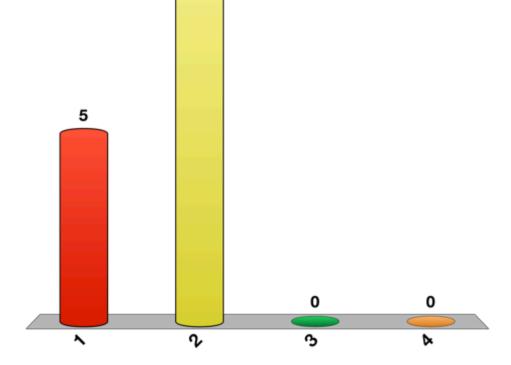
- 1. Yes
- 2. **No**
- 3. Don't know
- 4. No opinion



Would you support reduced speeds on SR 227 between Farmhouse Lane and Los Ranchos?

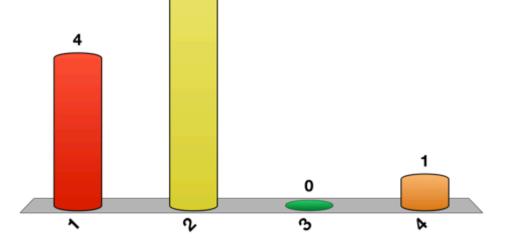


- 2. Yes
- 3. No Opinion
- 4. Don't know



Would you support restricting turn movements to right-in, right-out and left-in at Kendall Road and at private residential and commercial driveways?

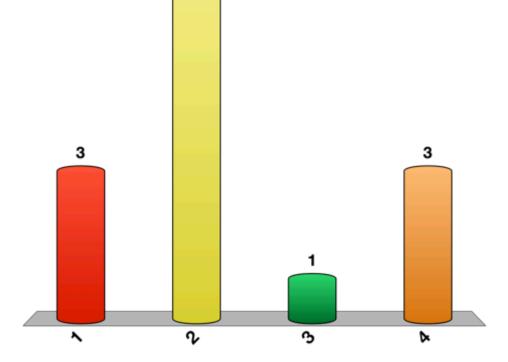
- 1. No
- 2. Yes
- 3. No Opinion
- 4. Don't know



Would you support a roundabout at Farmhouse Lane, Buckley, Crestmont and Los Ranchos?



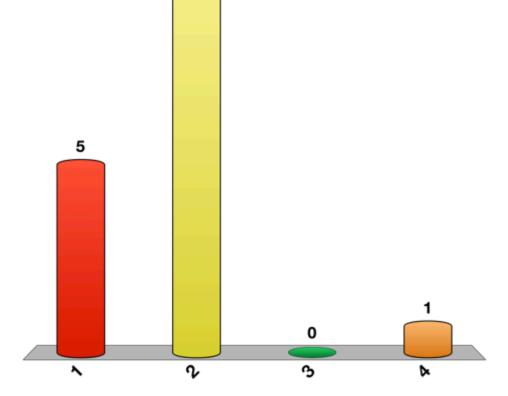
- 2. Yes
- 3. No Opinion
- 4. Don't know



Would you support installing traffic signals at Farmhouse Lane and Crestmont?



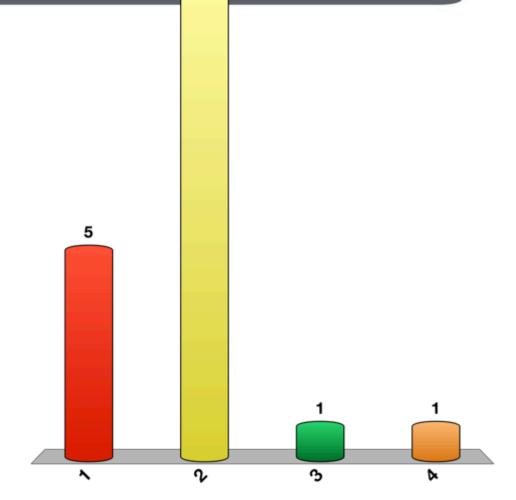
- 2. Yes
- 3. No Opinion
- 4. Don't know



Would you support a full four-lane widening of SR 227 from north of Farmhouse to just south of Los Ranchos?



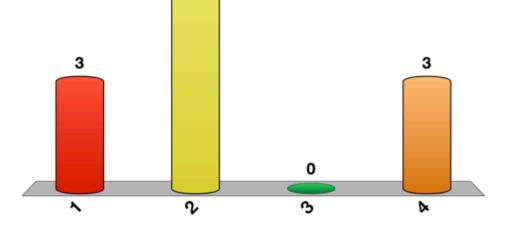
- 2. Yes
- 3. No Opinion
- 4. Don't know



Do you support pinching off access from Airport Drive and consolidating a four legged intersection at Farmhouse Lane?



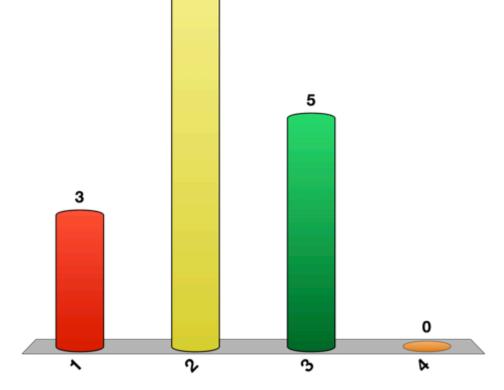
- 2. Yes
- 3. No Opinion
- 4. Don't know



Do you think regional transit services connecting different communities are most in need to relieve congestion in the corridor?



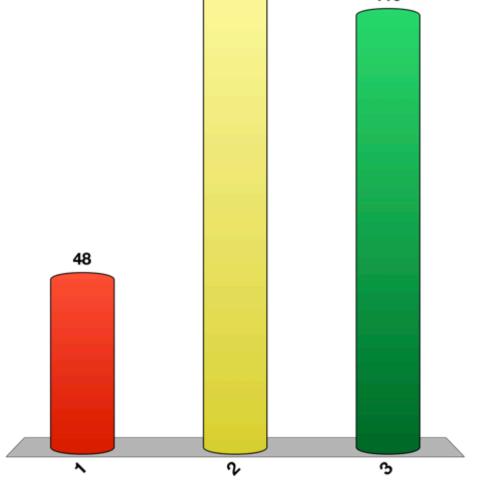
- 2. **No**
- 3. Maybe
- 4. Don't know



Rank these in order of importance:

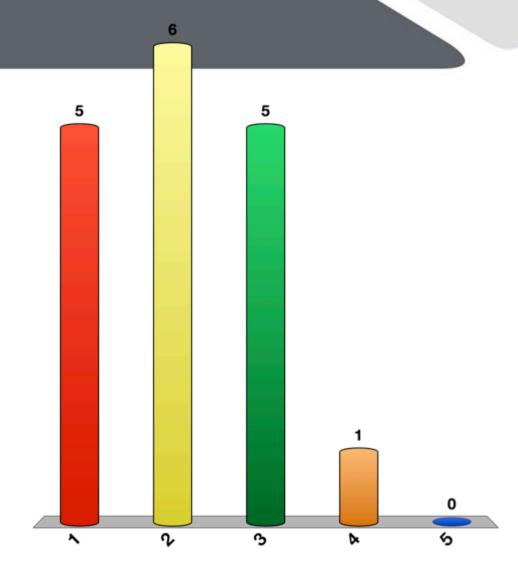
Preserving SR 227 as a scenic corridor.

- 2. Reducing congestion through adding mainline capacity with synchronized signals between Farmhouse Lane and Los Ranchos.
- Striking a balance between added capacity and scenic attributes.



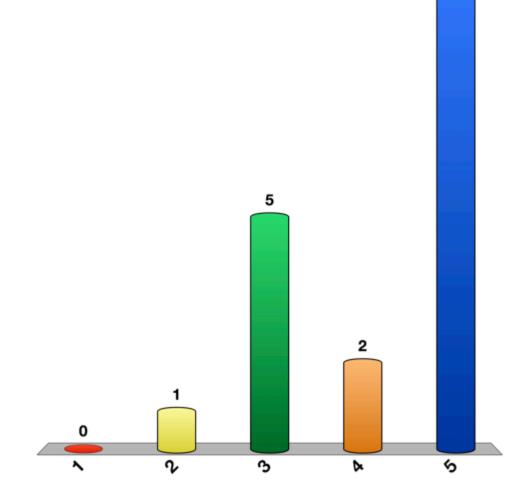
Making improvements to SR 227 is important to the local economy.

- 1. Strongly Agree
- 2. Agree
- Neutral
- 4. Disagree
- 5. Strongly Disagree



What is your age?

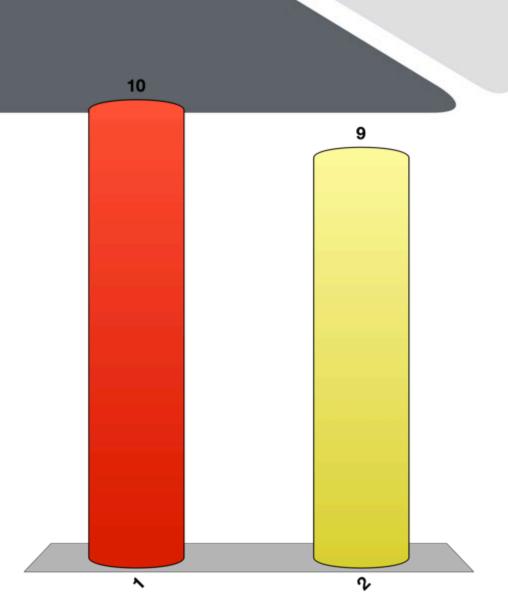
- 1. Under 21 years
- 2. 21-35 years
- 3. 35 to 50 years
- 4. 50 to 65 years
- 5. Over 65 years



What is your gender?

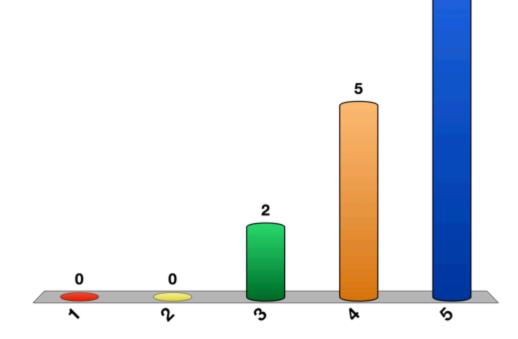


2. Female



How long have you lived in San Luis Obispo County?

- 1. 5 years or less
- 2. 5-10 years
- 3. 10-15 years
- 4. 15-25 years
- 5. More than 25 years



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