

NW Lower Bridge Way / NW 43rd Street Intersection Improvement

Public Outreach Results Summary

Presenter:
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County Engineer



Background

- Rural three-leg intersection serving communities north and west of Terrebonne, including Crooked River Ranch
- Moderate to High Average Daily Traffic (ADT)
- History of non-fatal injury crashes
- Part of *Sisters to Smith Rock Scenic Bikeway*
- Identified in 2020-2040 Transportation System Plan (TSP) as High-Priority project (Project CI-7)



Phase 1: Alternatives Analysis

- Ongoing since May 2023
- Identified three conceptual improvement alternatives
 - Concept-level renderings
 - Preliminary cost estimates
- Performed a traffic operations analysis
 - Existing condition
 - Each improvement alternative
- Initiated coordination with Bureau of Land Management (BLM) for Right-of-Way acquisition
- **Public Involvement Process**
 - **Virtual Open House**



Concept 1: Right Turn Channelization



- Extension of existing westbound right turn lane
- Widening of existing westbound shoulder
- Installing buffered bicycle lane
- Est. Cost = \$285,000



Concept 2: Re-Alignment



- Realignment of major roadway approaches
- Implement stop-control for lower-volume (eastbound) approach
- Install left turn lane for westbound traffic
- Est. Cost = \$2,007,000



Concept 3: Roundabout

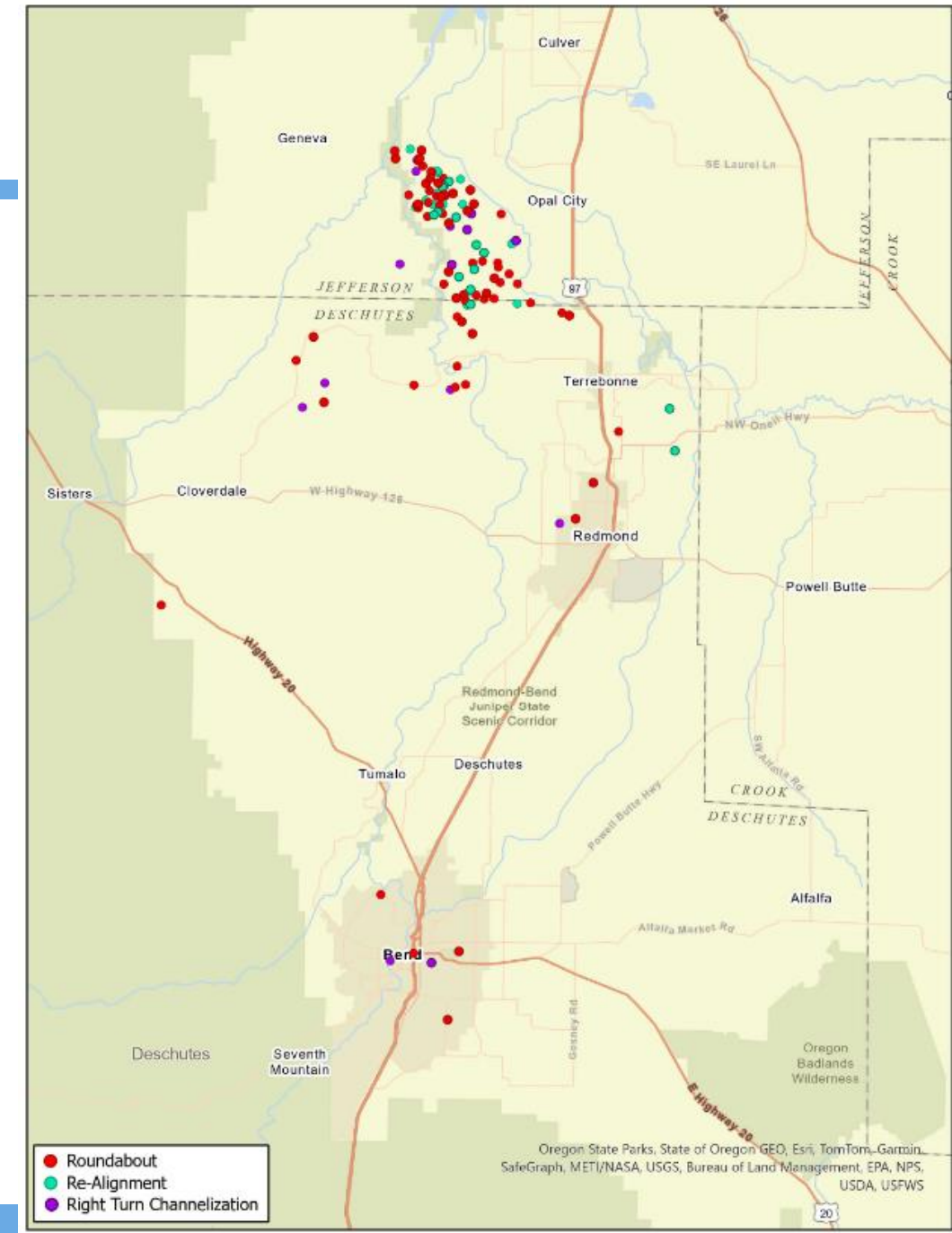


- Construction of single-lane roundabout
- Construction of separated bicycle facilities
- Installation of intersection illumination
- Est. Cost = \$2,112,000



Public Involvement Process Results

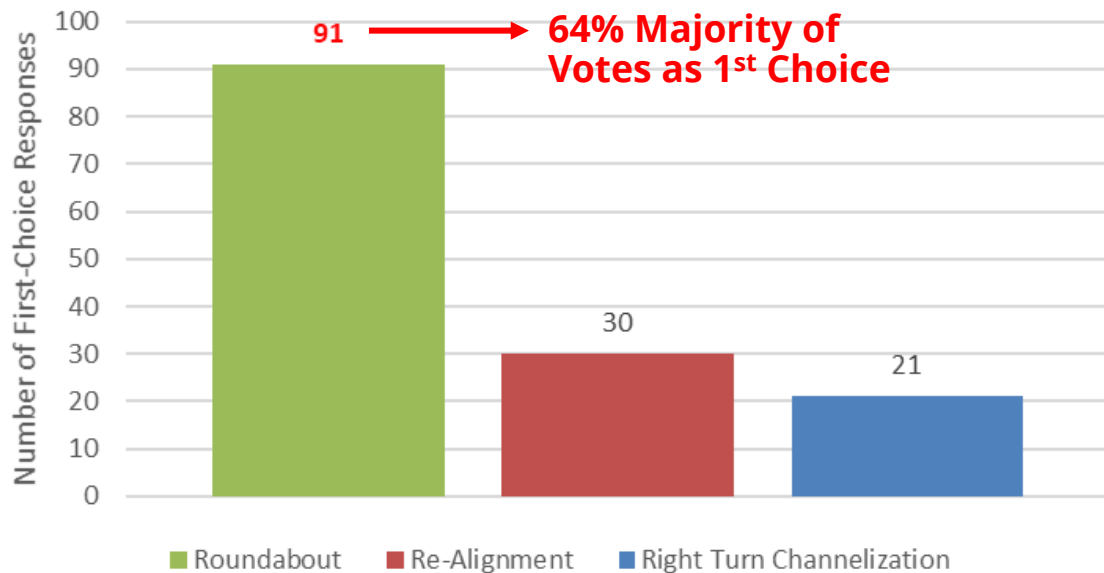
- Virtual Open House conducted March 8 through April 19, 2024
- 142 responses received
 - Deschutes County & Crooked River Ranch residents



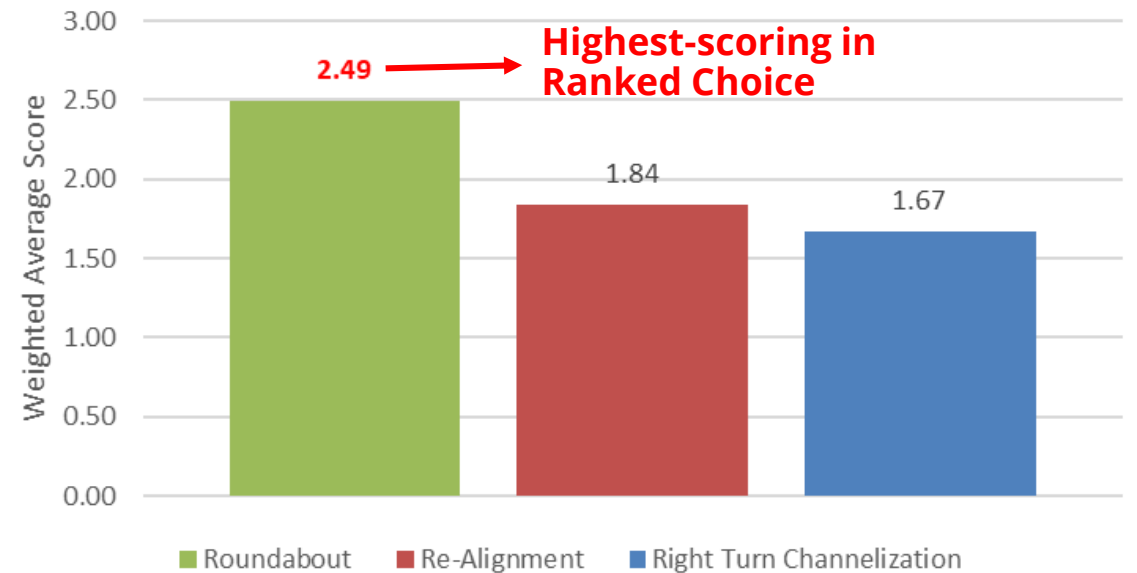
Public Involvement Process Results

- Ranked-choice voting system
 - Majority Interpretation
 - Scoring Interpretation:
 - 3 = Most Desired
 - 1 = Least Desired

Total Votes as Choice #1



Average Ranked-Choice Score



Public Involvement Process Results

- General Summary of Public Comments:
 - Roundabout would provide best long-term safety & traffic operations benefit
 - Roundabout needs to be sized to accommodate large trucks, motor homes, and emergency vehicles
 - Prioritization for Crooked River Ranch traffic
 - Prioritize improvements to the US97/Lower Bridge Way intersection before considering Lower Bridge Way/NW 43rd Street intersection
(Note: Improvement of the US97/Lower Bridge Way intersection is a part of the well-publicized US97: Terrebonne project that will begin construction this summer.)



Staff & Consultant Findings

- Preferred Alternative = **Roundabout**

- Provides best combination of motor vehicle and bicycle safety
 - Traffic calming
 - Bicycle crossing
- Intersection operations - LOS A (free flowing, little disruption) for all directions of movement
- Smaller ROW footprint (vs. realignment/turn lane)
 - Can avoid BPA/PGE rights of way
- Highest Ranked-Choice Score by public participants in virtual open house.
- Negligible cost difference vs. realignment/turn lane



Next Steps

- Initiate Phase 2: Design & ROW Acquisition
 - Refine roundabout concepts
 - Select a preferred concept for final design
 - Environmental Assessment (EA) for Right-of-Way acquisition through BLM
 - Anticipate construction start in 2025



Thank you

