US 97 Corridor Freight Plan
Central Oregon ACT

DATE

Presented by Devin Hearing, ODOT Project Manager

Source: ODOT
Project Overview

• Phase 1 study (existing conditions) completed 2017
• Phase 2 study kicked off 2018
  • Stakeholder outreach
  • Mobility and safety analysis
  • Identification of freight projects
  • Investment strategy
• Study breaks new ground with focus & budget
  • Few directly comparable freight corridor plans in US
Goals, Objectives, and Criteria

Source: ODOT
Key Metrics

• Safety
  • Current fatality rate involving trucks
  • Current injury rate involving trucks

• Mobility
  • Truck Delay (hr/mi-yr)
  • Truck Travel Time Reliability (travel time index)
  • Resiliency metrics such as additional VMT and VHT from segment closure
  • Average Roadway Closure Duration
  • Number of incidents per year

• Economic Competitiveness
  • Current Tonnage
  • Current Value
  • Future Tonnage
  • Future Value

Source: ODOT
### Scoring

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Metrics</th>
<th>Possible Points</th>
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</thead>
<tbody>
<tr>
<td>Safety</td>
<td>Serious truck involved crashes</td>
<td>400</td>
</tr>
<tr>
<td>Mobility and Accessibility</td>
<td>• Reliability</td>
<td>300</td>
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<td></td>
<td>• Delay</td>
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<td>• Resiliency</td>
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<td>• Incidents</td>
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<td></td>
<td>• Roadway Closure Duration</td>
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<tr>
<td>Economic Competitiveness</td>
<td>Current and future tonnage and value</td>
<td>200</td>
</tr>
</tbody>
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Existing and Future Conditions
Corridor performance

- Among top 5 highways by percent truck traffic
- Combination truck type dominates corridor
Existing Conditions

• Safety
  • Crash data was analyzed to identify locations with disproportionately high number of truck-involved crashes

• Mobility
  • Evaluated along three criteria: delay, reliability, resiliency, and incident closures

• Economic Competitiveness
  • Tonnage and value of commodities through the corridor
Future Conditions

• Traffic volumes expected to increase approx. 20%

• Estimated number of truck involved crashes is projected to increase by approximately 5%–30% for most segments
Main Findings of Existing and Future Conditions

• Safety is critical along US 97
  • Biggs Junction
  • North of Klamath Falls
  • North of California border

• Reliability and delays exist primarily in and around urban areas
  • Bend, Redmond and Madras

• Highest tonnage and values south of Bend and OR 58

Source: ODOT
Overview of Survey

- Feedback was collected using a month-long online survey and in-person tabling at truck stops along US 97
  - 79 total responses
- Survey questions
  - The type of respondent
  - How they typically use US 97 to haul freight
  - Perceptions of US 97
  - Types and locations of problems
  - Suggestions for future outreach
Survey Results

• Most used the facility frequently
  • Over 60% every day or a few times a week

• 88% regional or national trips

• Highest concentration in Bend

• Most access via I-84 and OR 58

• Issues throughout the corridor
  • Only 39% rated it good or very good for freight
  • 43% rated it poor or very poor for freight
Survey Results

• Biggest issues
  • Traffic volume
  • Lack of pullouts and climbing lanes
  • Winter weather
  • Safety

• Delay in and around urban areas
  • Bend
  • Redmond
  • Madras
  • Klamath Falls
  • La Pine
Planned Projects

• Many problems along the US 97 corridor have been previously identified and addressed
• Planned projects range in their level of completion
  • From ‘conceptual’ to ‘under construction’
Suggested Solutions

• Planned projects compared against needs
  • If a planned project addresses the need, no further solution was proposed.

• Toolbox approach to resolve most types of problems that were identified
  • Tailored solutions in some high ranked need locations
Prioritization of Projects

- Need
  - Quantitative analysis

- Benefits
  - Qualitative analysis

- Costs
  - Did not vary substantially between solutions

- ODOT and TAC concurred with prioritizing projects based primarily on need and benefit rather than cost
Conclusion
Corridor Prioritization