

Project Advisory Committee (PAC) Meeting #2 June 11, 2020 3:00 pm - 5:00 pm

KLAMATH COUNTY TRANSPORTATION SYSTEM PLAN



61088251

Image Source: MB298 - Own work, CC BY-

MEETING AGENDA

- Virtual Meeting Etiquette (Reminder)
- Project Overview
 - Purpose and Need
 - Schedule
 - Next Steps
- Existing and Future Conditions Inventory and Analysis (Tech Memo #3)
- Next Steps



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VIRTUAL MEETING ETIQUETTE

- Mute your microphone unless you are talking
- Video and audio only options
- We will use the chat box for clarifying questions only. Keep other questions for the prompted discussion periods.
- Meeting will be recorded



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PROJECT PURPOSE AND NEED

- Purpose of the TSP
 - To guide the management and development of transportation facilities within Klamath County
 - To provide and encourage a safe, convenient, and economic transportation system
- The TSP provides a 20-year vision for the County



COORDINATION WITH URBAN AREA TSP

- Klamath Falls Urban Area TSP (2012)
 - Includes area inside the Urban Growth Boundary (UGB)
 - Some County roads within this area

County's TSP Update

- No additional analysis of roads within UGB
- Urban Area TSP will be amended to capture County's plans and cost estimates for County roads only



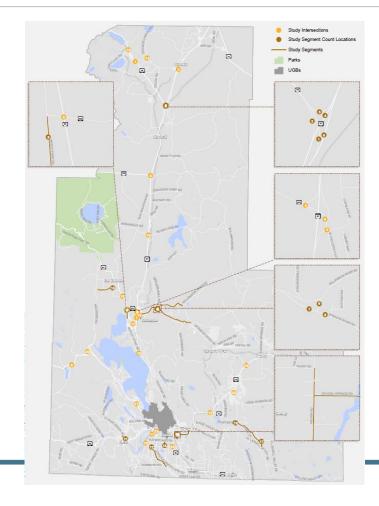
KLAMATH FALLS URBAN AREA TRANSPORTATION SYSTEM PLAN UPDATE



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STUDY AREA

Figure 1 in Existing and Future Conditions Memo



 Roadways outside of the UGB, including unincorporated communities

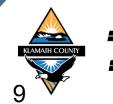


PROJECT SCHEDULE

| | | | | | | | | | | | 2020 | 2021 | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|
| month | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ост | NOV | DEC | JAN | FEB | MAR |
| Virtual Open Houses | | | | | | | | | | | | | | |
| Project Advisory Committee Meetings | | | | | | | | | | | | | | |
| Plans & Policy Review | | | | | | | | | | | | | | |
| Transportation System Conditions, Deficiencies, and Needs | | | | | | | | | | | | | | |
| Development & Analysis of Solutions | | | | | | | | | | | | | | |
| Draft TSP | | | | | | | | | | | | | | |
| Adoption | | | | | | | | | | | | | | |

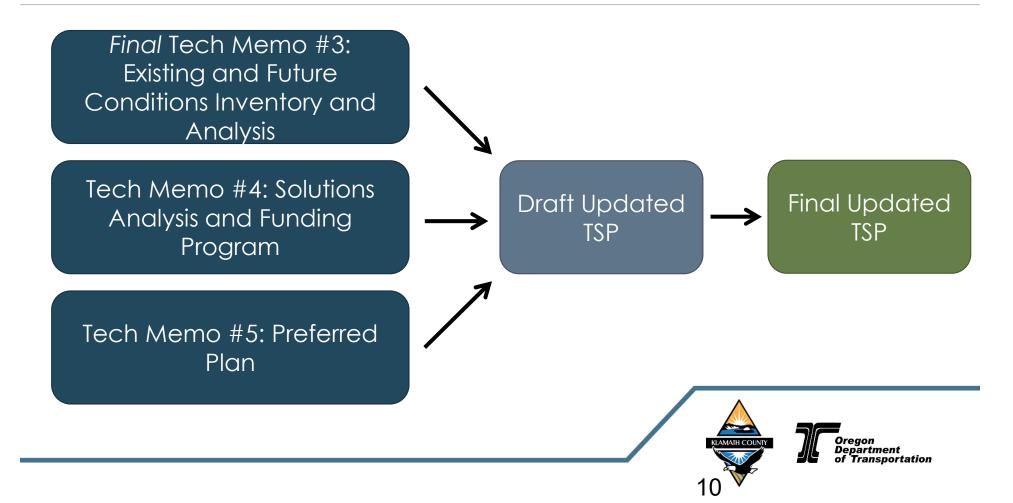
Note: After PAC Meeting #1, the Project Team decided to postpone Public Open House #1 to August. The schedule has been revised accordingly.

We Are Here



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REMAINING PROJECT DOCUMENTS



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- Virtual Meeting Etiquette (Reminder)
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PURPOSE OF TECH MEMO #3

- Identify the existing and future transportation deficiencies, gaps, and issues
 - Based on data analysis
 - PAC input will supplement data analysis to help project team identify key issues
 - The needs from Tech Memo #3 be used to develop draft solutions in Tech Memo #4





FUNDING INVENTORY & ANALYSIS

Kittekon & Associates, Inc., Bend, Orego

SUMMARY OF NEEDS

APPENDICES

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112

114

118

OPTIONS FOR PROVIDING FEEDBACK

- Discussion during today's meeting
- Complete online "form"
- Provide location-specific feedback on commenting map

Link emailed to you: https://forms.gle/eVmpHUjJDWw1Fr hB8

PAC 2 Meeting: Comments and Feedback

Please use this form for your comments, feedback, and input on this form at any time during the presentation.

Thank you for your participation, and we look forward to hearing from you.

If you would like to comment on a unique location, please use the comment map linked here: <u>https://kai.maps.arcgis.com/apps/CrowdsourceReporter/index.html?</u> <u>appid=1207ea77521f46868018b0d8c24ada60</u>



What key needs would you add regarding the County's roadway system?

Your answer

TECH MEMO #3 OVERVIEW

- Land Use and Demographics
- Roadway System Inventory
- Intersection and Street Operations
- Historic Crash Data Analysis
- Alternative Transportation Analysis
- Bridge, Water, and Pipeline System
- Funding Inventory



FUNDING INVENTORY

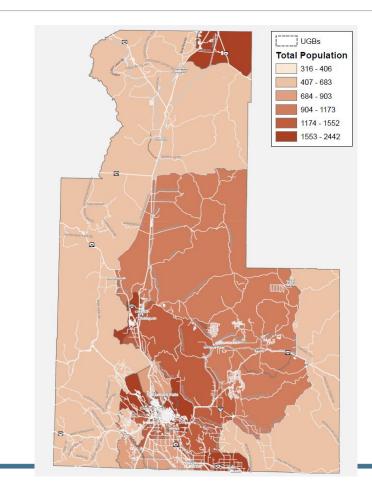
| Year | Motor Vehicle Apportionment | SRS Funds | STP Funds | Total |
|-------------------------|--------------------------------|-----------|-----------|------------|
| 2016/17 | 4,852,105 | 400,251 | 1,143,878 | 6,396,234 |
| 2017/18 | 5,247,151 | 4,505,768 | 599,651 | 10,352,570 |
| 2018/19 | 6,051,560 | 4,081,833 | 597,321 | 10,730,714 |
| 2019-20 (Estimated) | 6,043,900 | 3,600,000 | 618,200 | 10,262,100 |
| 2020/2021 (Proposed) | 6,267,300 | 3,300,000 | 633,800 | 10,201,100 |

- Most funds are used for operating and maintaining the County's existing transportation system.
- Revenues from the Motor Vehicle Appointment are expected to substantially decrease.
 - Anticipated revenue loss over the next two years is about \$600k.
 - The COVID-19 pandemic and stay-in-place order have significantly reduced VMT.



Figure 12 in Memo

POPULATION

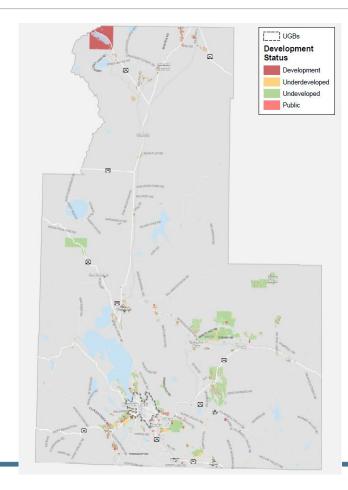


- The County has a population of approximately 67,000
- Average annual growth rates are between 0.2% and 0.4%



Figure 4 in Memo

DEVELOPMENT STATUS



- Large portions of undeveloped (nonresource use) lands are in the southern areas of the County
 - Southwest and southeast of Klamath Falls
 - Eastern Klamath County near Sprague River Rd

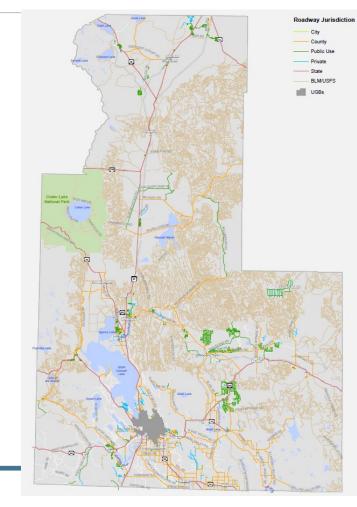


ROADWAY SYSTEM INVENTORY

- Roadway Jurisdiction
- Functional Classification
- Freight



ROADWAY JURISDICTION



- Jurisdiction determines cross-section requirements and maintenance responsibility
- State Roads: 422 miles
- County Roads: 856 miles
- User Maintained Public
 Roads: 900 miles (approx.)



FUNCTIONAL CLASSIFICATION

- Roadways classified based on their primary function
- Cross-section standards are based on classification

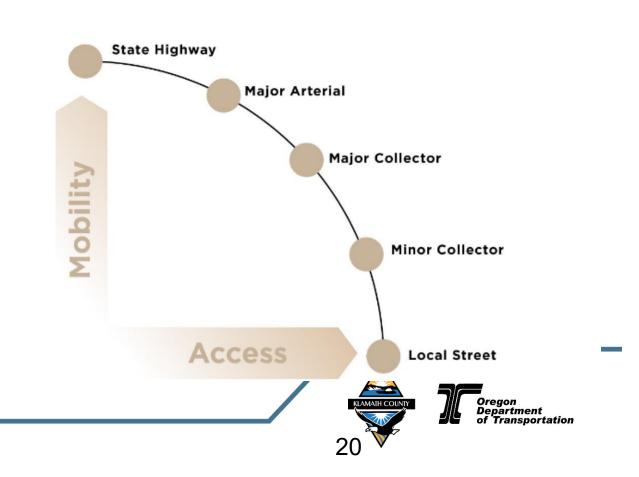


Figure 20 in Memo

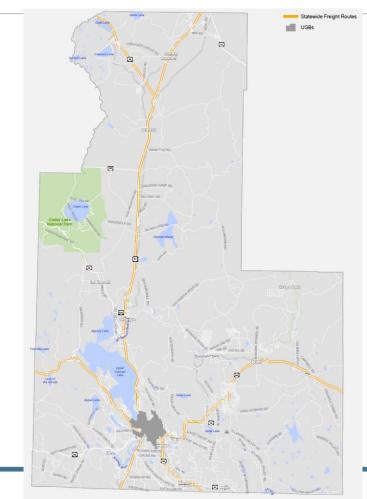
FUNCTIONAL CLASSIFICATION



 Are there any roadways where functional classification may need to be updated, such as in more suburban areas?



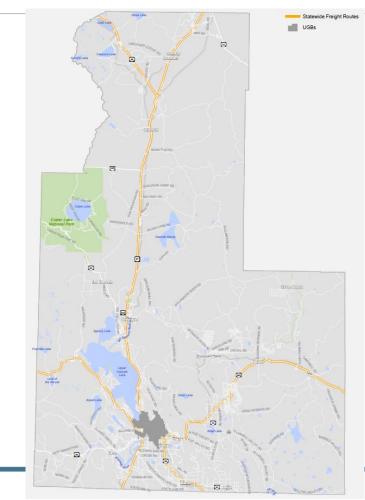
FREIGHT ROUTES



- There are no Countydesignated freight routes
- Passing lanes are limited on US97 south of Klamath Falls, OR39, and OR140 east of Klamath Falls



FREIGHT ROUTES



- Are there key County roads that should be designated as freight routes?
- Are there key locations where passing lanes are needed?



FEEDBACK – ROADWAY SYSTEM INVENTORY

- Do these needs capture key issues and challenges on the County's roads?
- Is anything missing?
- Should anything be modified or removed?

PAC 2 Meeting: Comments and Feedback

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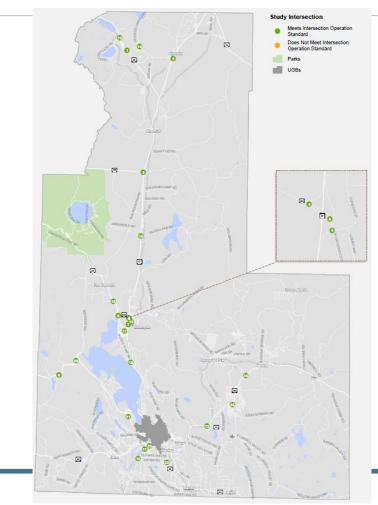
If you would like to comment on a unique location, please use the comment map linked here:



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Your answer

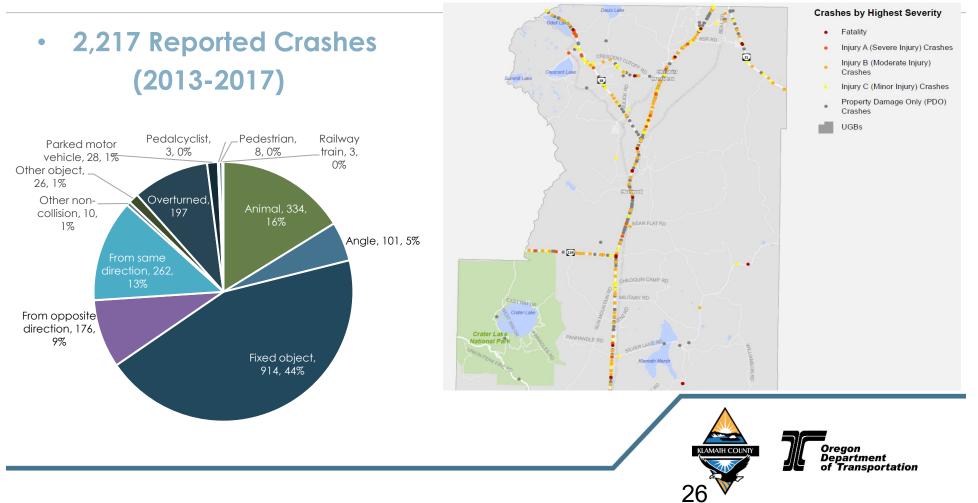
OPERATIONS



 All study intersections meet standards in existing and future conditions



HISTORIC CRASH DATA



FATAL AND SEVERE CRASHES



- 149 fatal/severe crashes (7%)
- Most common types:
 - Fixed object crashes (53, 36%)
 - Head-on crashes (32, 21%)
- Most common contributing factor:
 - Speed too fast for conditions (32, 21%)



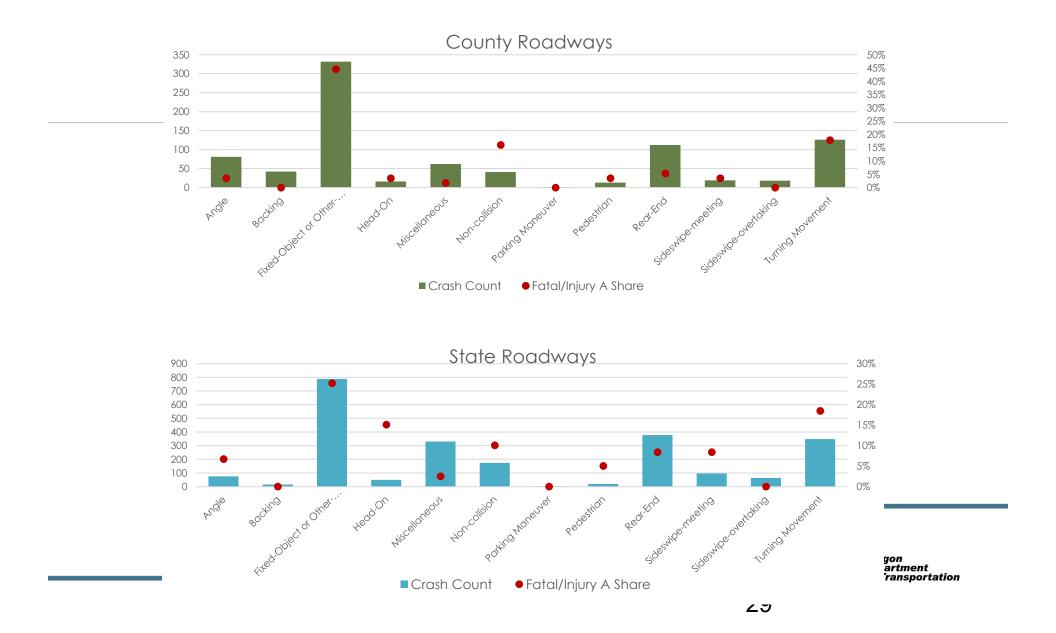
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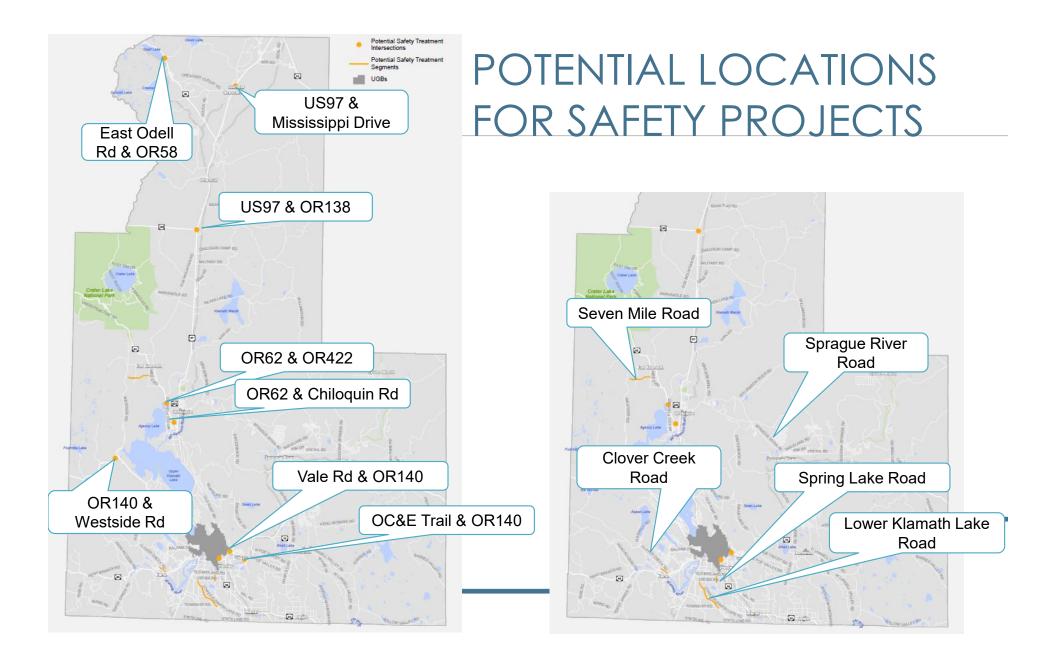
KLAMATH COUNTY TSAP

- Transportation Safety Action Plan (TSAP) is ongoing
 - 3,199 reported crashes (2013-2017)
 - Crash analysis includes areas within the UGBs

| COUNTY ROADWAYS | STATE ROADWAYS |
|--|---|
| 863 reported crashes | 2,336 reported crashes |
| 6% resulted in a fatality or severe injury | 5% resulting in a fatality or severe injury |
| severe injury | |

28 🔻





FEEDBACK – SAFETY

- Do these needs capture key issues and challenges on the County's roads?
- Is anything missing?
- Should anything be modified or removed?
- Example Locations Heard at PAC Meeting #1:
 - Bliss Road
 - Sprague Road
 - US97
 - Rural county roads
 - US97/Shady Pine Road
 - US97/Algoma Road
 - Clover Creek Road
 - Silver Lake Road
 - Crescent Cutoff Road



BICYCLE AND PEDESTRIAN SYSTEM

- Existing Bicycle and Pedestrian Facilities
- Bicycle LTS Analysis

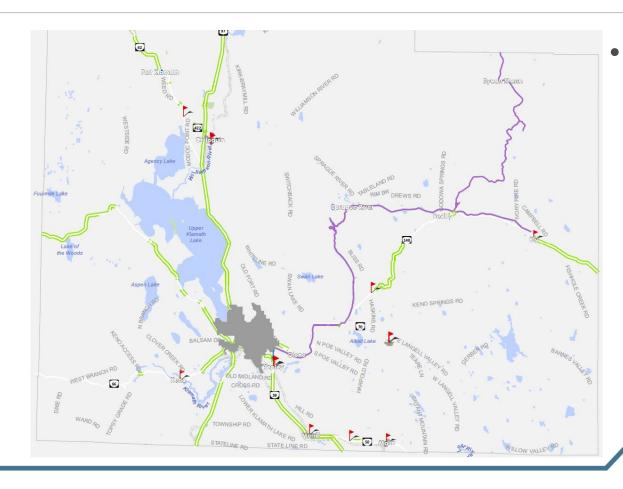


Figure 32 in Memo

EXISTING FACILITIES



EXISTING FACILITIES

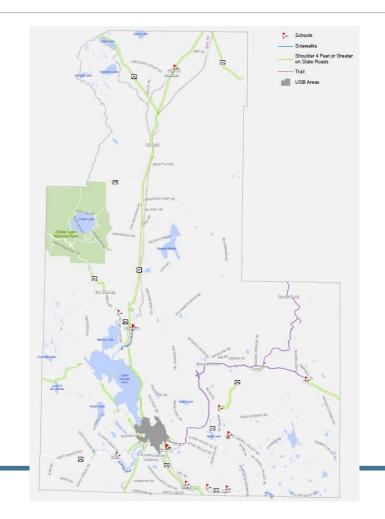


Multi-use paths, sidewalks, and crossings are currently lacking in unincorporated areas, near schools, and to transit stops.



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EXISTING FACILITIES



- Communities such as Keno may benefit from additional dedicated sidewalks or separated path facilities.
- OC&E Woods Line State Trail crossings with roadways currently lack striping.



Figure 33 in Memo

BICYCLE LTS ANALYSIS

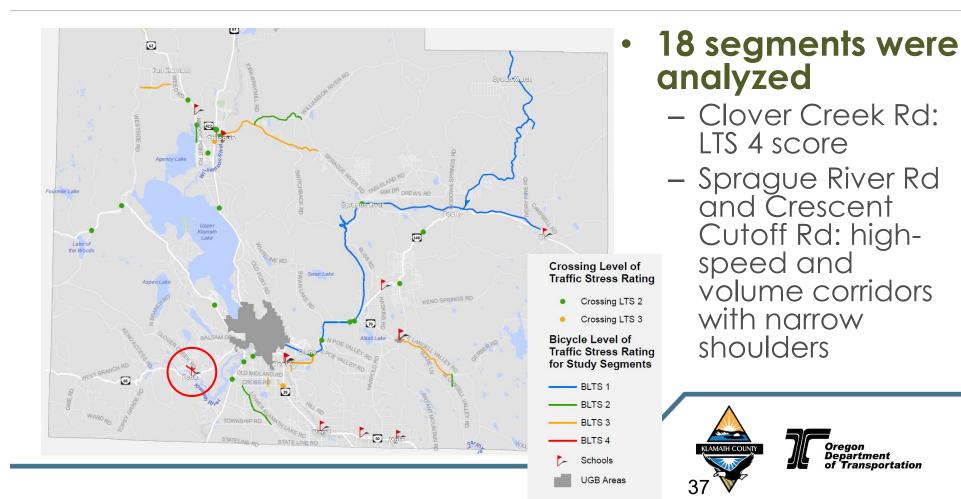


Bicycle LTS Scores

- LTS 1: Little traffic stress and suitable for all cyclists
- LTS 2: More traffic stress than young children can generally handle while biking and suitable for teen and adult cyclists
- LTS 3: Moderate traffic stress and suitable for most adult bicyclists
- LTS 4: High traffic stress and suitable for highly experienced and skilled cyclists



BICYCLE LTS ANALYSIS



FEEDBACK – BICYCLE/PEDESTRIAN SYSTEM

- Do these needs capture key issues and challenges on the County's facilities?
- Is anything missing?
- Should anything be modified or removed?



MULTIMODAL SYSTEM

- Public Transit
- Rail
- Air Transportation
- Bridges



PUBLIC TRANSIT

Service Providers

- Basin Transit (Klamath Falls area, expanding to outside of UGBs)
 - Plans to expand bus service to Keno, Malin, Merrill, Bonanza, Running Y, Beatty, and Bly
 - Study in-process to evaluate route between Klamath Falls and Bend
- Quail Trail Public Transit (primarily Chiloquin and Klamath Falls)
- Amtrak Thruway (Chemult, La Pine, and Deschutes County)
- Oregon POINT (Klamath Falls and Jackson County)
- Findings and Needs
 - No connected public transit services between La Pine and Klamath Falls
 - Solo reliance on Amtrak's Thruway Bus Service in North Klamath County
 - Existing routes and services not well coordinated



RAIL SYSTEM

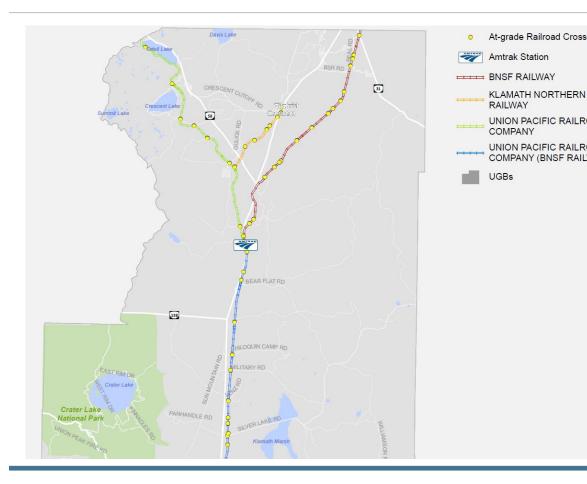


Figure 35 in Memo

- At-grade Railroad Crossings Three freight rail lines run: UNION PACIFIC RAILROAD - UPUNION PACIFIC RAILROAD COMPANY (BNSF RAILWAY) - BNSF

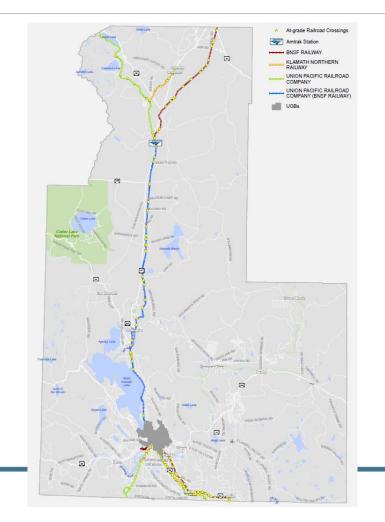
 - Klamath Northern Railway
 - Amtrak Station in Chemult



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Figure 35 in Memo

RAIL SYSTEM



Key Findings

- 152 of the 170 (89%) of rail crossings in the County are at-grade
- Most crossings are passive



BRIDGES

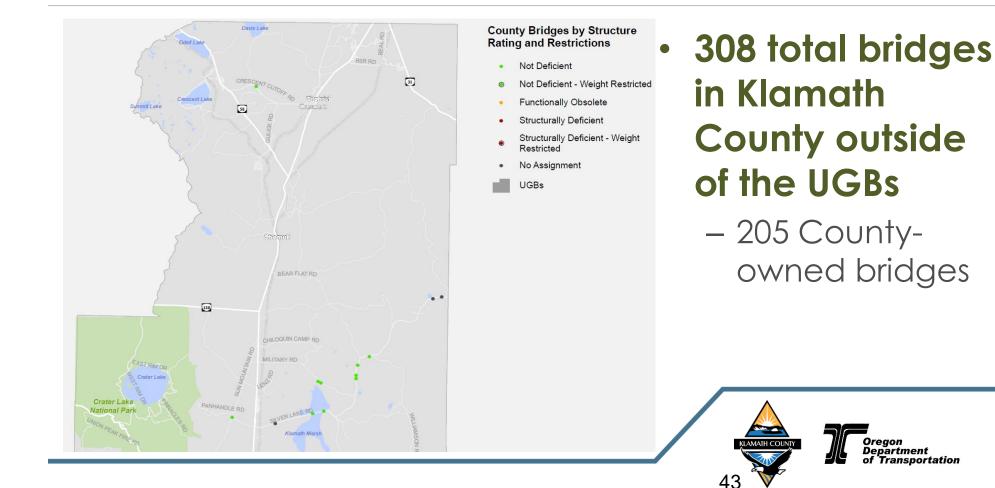
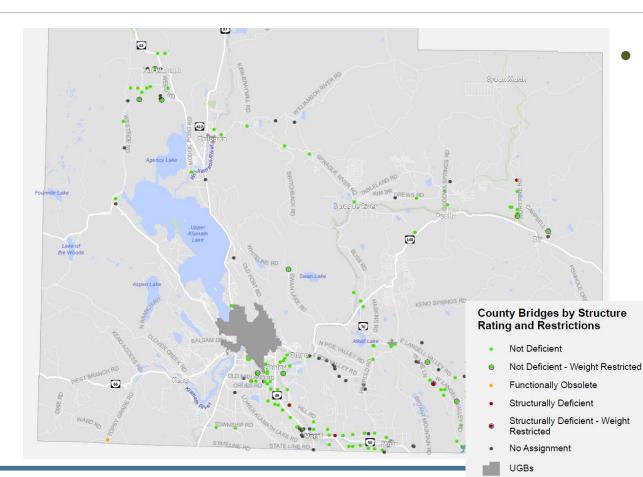


Figure 37 in Memo

of Transportation

BRIDGES

Figure 37 in Memo



Three County bridges have sufficiency ratings below 50

- Langell Valley Rd
- Matney Way
- Ivory Pine



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FEEDBACK – TRANSIT, RAIL, BRIDGES

- Do these needs capture key issues and challenges on the County's facilities?
- Is anything missing?
- Should anything be modified or removed?



DISCUSSION

- What gaps and needs do you observe in the County?
 - Are these reflected in the needs presented today?
 - How do your observed needs differ from the needs presented?
 - Should any needs be modified or removed?
- Are any findings or needs missing?
- Anything else to share?



FEEDBACK

- Please provide comments through the commenting form and online map by Friday, June 19th
- Link emailed to you:
- <u>https://forms.gle/eVmpHU</u>
 <u>jJDWw1FrhB8</u>

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NEXT STEPS

- Provide Input on Tech Memo #3
 - Please provide comments by Friday, June 19th
- PAC Meeting #3: August 2020
- Public Open House #1 will be held on the same day as PAC Meeting #3

Link for commenting form emailed to you: https://forms.gle/eVmpHUjJDWw1FrhB8

