



Project Advisory Committee (PAC) Meeting #3
August 20, 2020
3:00 pm - 5:00 pm

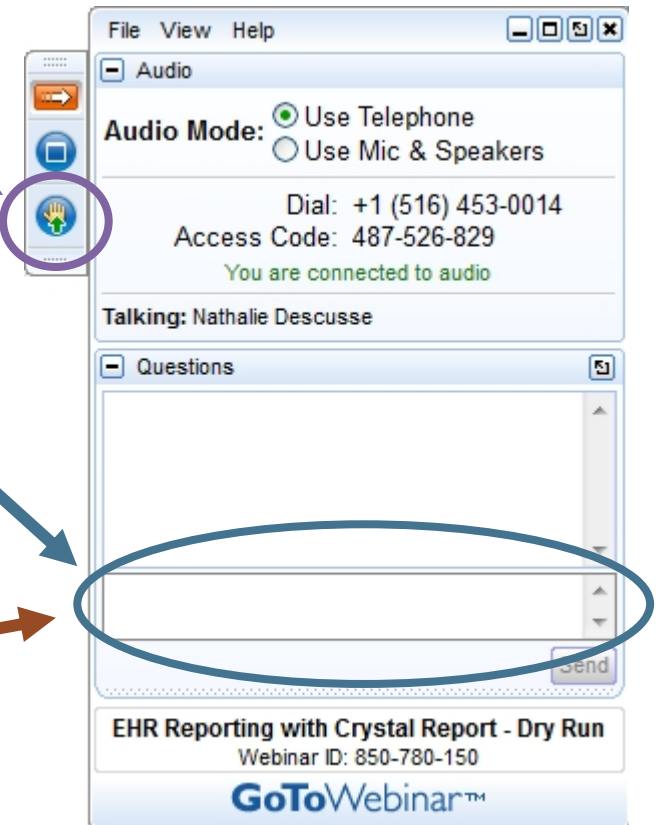
KLAMATH COUNTY TRANSPORTATION SYSTEM PLAN

Image Source: MB298 - Own work, CC BY-SA 4.0,
<https://commons.wikimedia.org/w/index.php?curid=61088251>

 **KITTELSON**
& ASSOCIATES

NAVIGATING GOTOWEBINAR

- “Raise your hand” if you have a clarifying question
- Send questions about the meeting or project through the “Chat Box”
- **BUT FIRST.....Please type your name and email into the Chat Box to virtually “Sign In”**



MEETING AGENDA

- **Virtual Meeting Etiquette (Reminder)**
- **Project Overview**
 - Purpose and Need
 - Schedule
 - Next Steps
- **Solutions Analysis and Funding Program (Tech Memo #4)**
- **Virtual Open House**
- **Next Steps**



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POLL QUESTION

Have you attended previous meetings?

- a) Yes, I attended both*
- b) Yes, I attended one*
- c) No, this is my first meeting*



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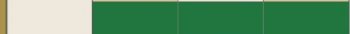
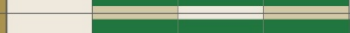
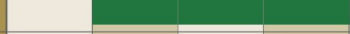
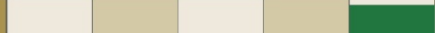

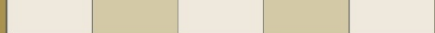

















PROJECT PURPOSE AND NEED

- **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**



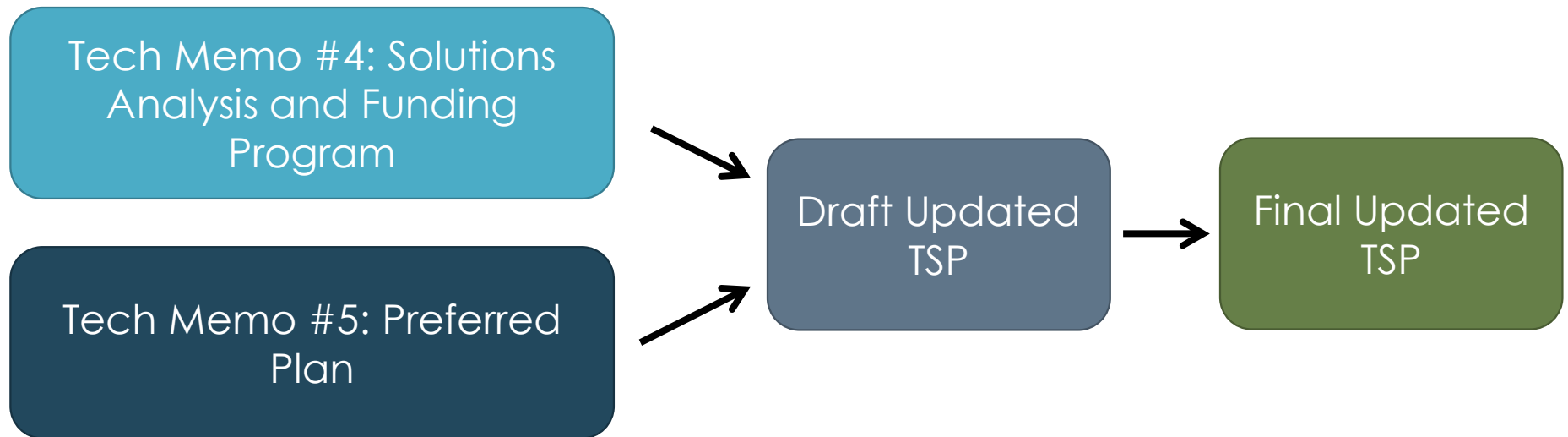
PROJECT SCHEDULE

	2020											2021		
month	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	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														

We Are Here



REMAINING PROJECT DOCUMENTS



Open Tech Memo #4 on your browser if possible, to view figures and tables



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SOLUTIONS ANALYSIS AND FUNDING PROGRAM (TM#4)

- **Addresses gaps and deficiencies in *Existing and Future Conditions Inventory Analysis (TM #3)***
- **Includes:**
 - Policies, programs and projects to address needs
 - Planning level cost estimates
 - Project evaluation and proposed prioritization
 - Projects prioritized based on evaluation criteria from the TSP Goals



HOW TO PROVIDE YOUR FEEDBACK

- Polling during meeting
- Discussion during meeting
- “Chat Box” during meeting
- Online Interactive Map
- Email to Jeremy (Klamath County)

KLAMATH COUNTY TSP - VIRTUAL OPEN HOUSE VIRTUAL WORKSHOP

WELCOME	ABOUT THE PROJECT	GOALS AND OBJECTIVES	ROADWAY PLAN	SAFETY PLAN	PEDESTRIAN PLAN	BICYCLE PLAN
TRANSIT PLAN	AIR, RAIL, BRIDGE, WATER, AND PIPELINE PLAN	FUNDING	NEXT STEPS			

WELCOME!

Welcome to the Online Open House and Workshop for the Klamath County Transportation System Plan Update (TSP)! This Open House and Workshop provides the opportunity for community members to share their feedback and see the progress on work conducted as part of the ongoing TSP update. Your feedback is vital as it will help us to create a transportation system that meets the needs of everyone in our community.

WATCH THE VIRTUAL PUBLIC EVENT LIVE STREAM RECAP!



POLL QUESTION

*Have you reviewed Tech
Memo #4?*

- a) Yes*
- b) Not Yet*
- c) Partially*



SOLUTIONS ANALYSIS AND FUNDING PROGRAM (TM#4)

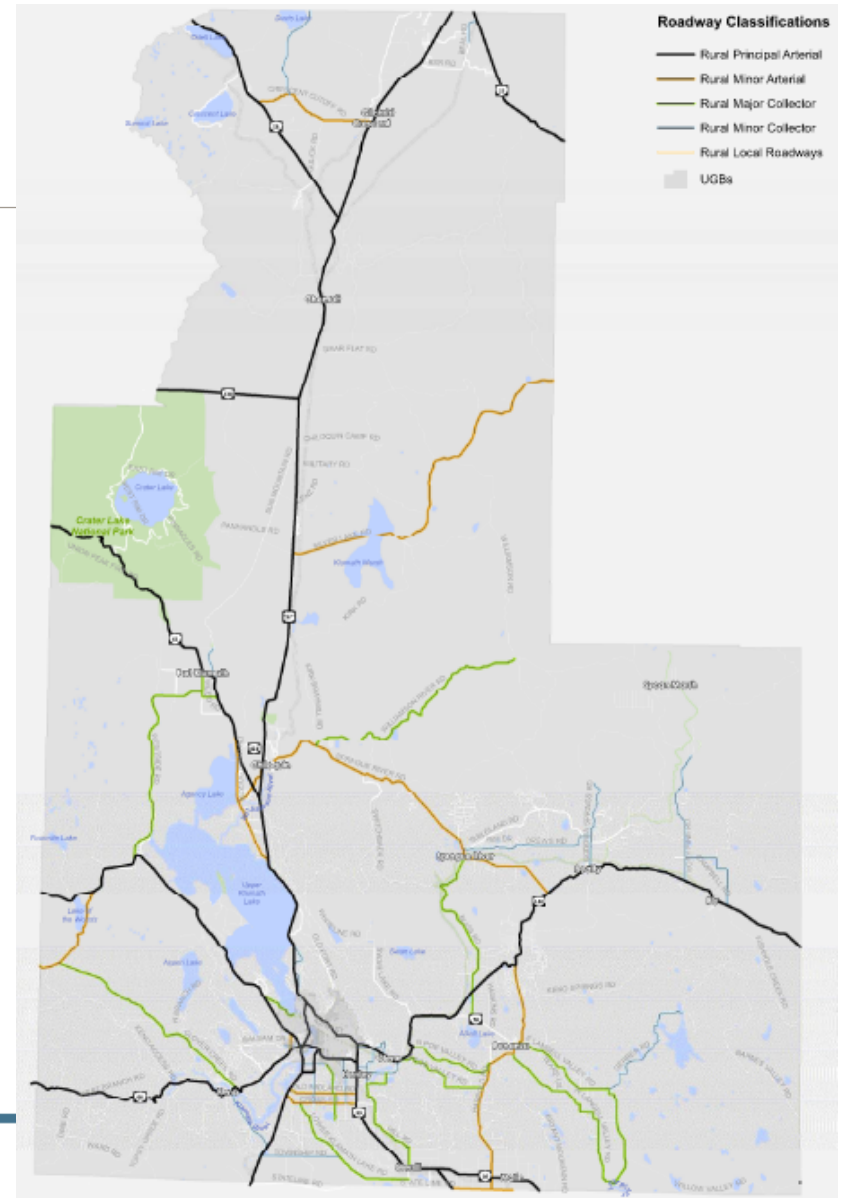
- **Street System Solutions**
 - Roadway Solutions
 - Freight Solutions
 - ITS Solutions
 - Traffic Safety Improvements
- **Multimodal System**
 - Pedestrian Solutions
 - Bicycle Solutions
 - Public Transit Services
- **Other Transportation System Solutions**
- **Funding Sources**



ROADWAY SYSTEM

- **County updates to:**
 - Functional Classification
 - Rural and Urban
 - Roadway Design Standards
 - Rural and Urban
 - Access Management
 - Rural and Urban

TM #4 Fig. 01



SOLUTION EXAMPLE

Table 7. Proposed Roadway Solutions

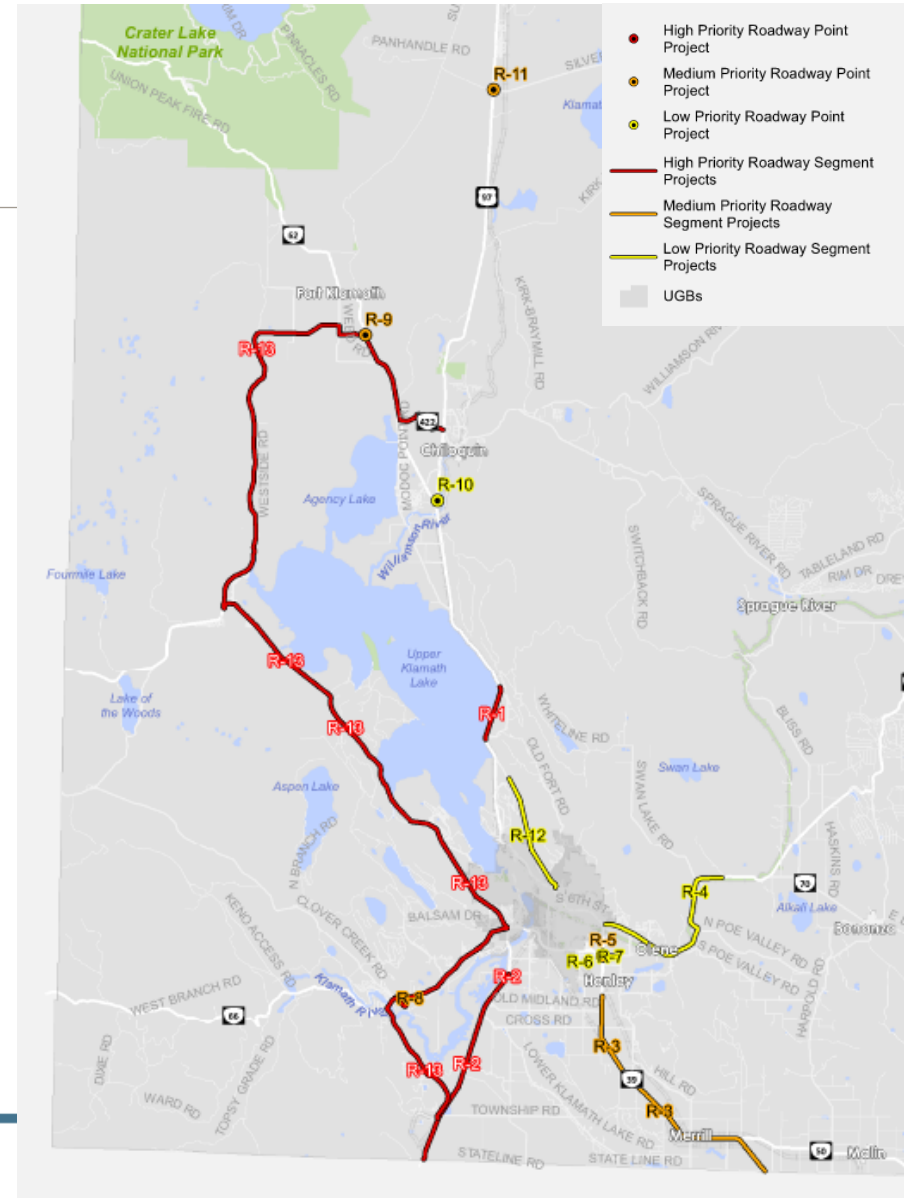
Project ID	Project Name	Project Description	Cost Estimate	Expected County Contribution	Funding Partner	Lead Agency	Proposed Priority
R-3	OR39 South Passing Lane Study	Conduct a passing lane feasibility study on OR39 south of Klamath Falls to the California border to determine the best location for passing lanes	\$50,000	\$0	ODOT	ODOT	Medium



ROADWAY SOLUTIONS

- **Key Needs:**
 - Passing lanes
 - New connections
 - Intersection improvements
- **Key Solutions:**
 - Feasibility studies for passing lanes
 - Intersection evaluations
 - Corridor extension projects

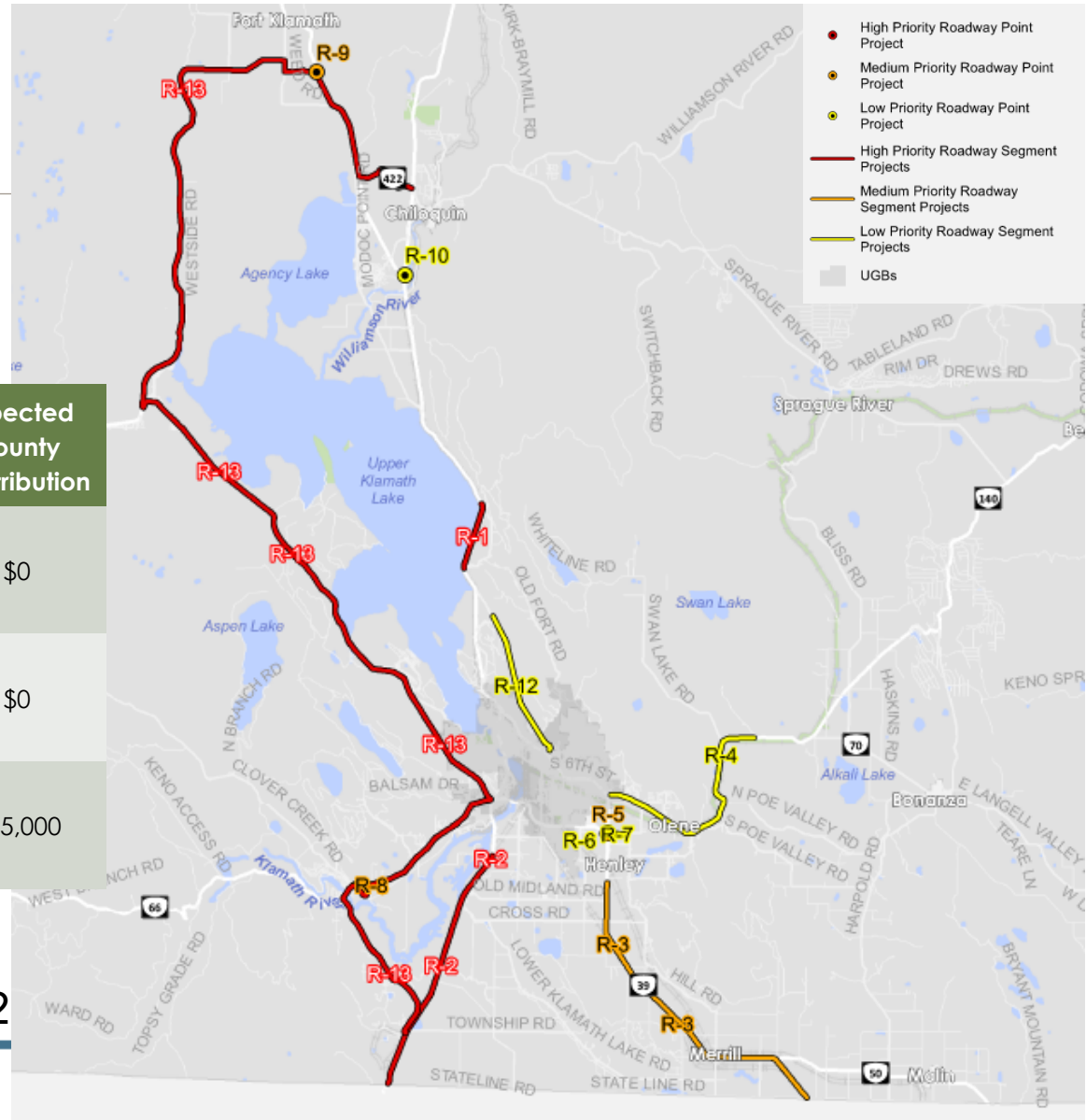
TM #4 Fig. 02



ROADWAY

High Priority Solutions

Project ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
R-1	US97 North Passing Lane Study	\$50,000	\$0
R-2	US97 South Passing Lane Study	\$50,000	\$0
R-13	Alternate Emergency Route to US97	\$50,000	\$25,000



TM #4 Fig. 02

POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the roadway solutions?

- a) *Yes, I generally support the solutions as presented*
- b) *Yes, I support the solutions but think priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some solutions presented*
- e) *Unsure at this time*



ROADWAY SOLUTION – DISCUSSION

- **Feedback**

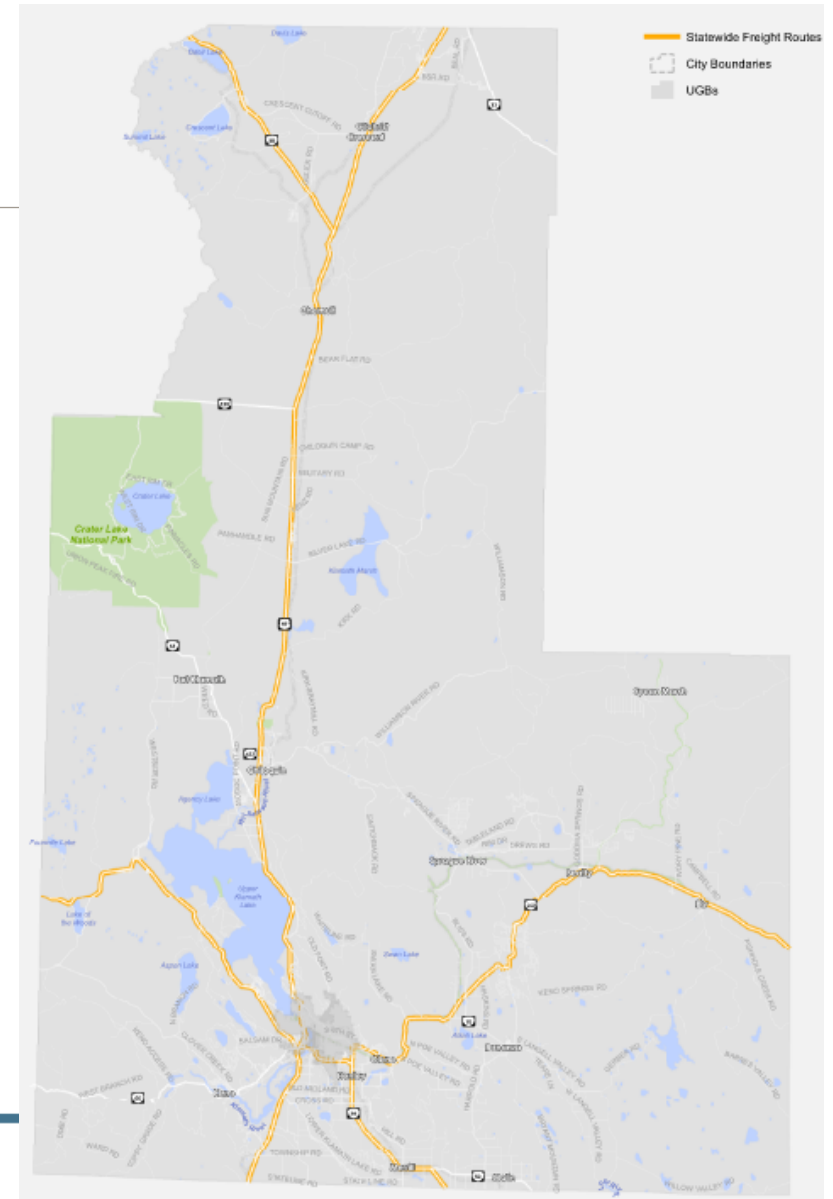
- *Did we address the roadway needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



FREIGHT SOLUTIONS

- No new freight routes
- Alternate Emergency Route (R-13)
 - Serves as alternate to US97

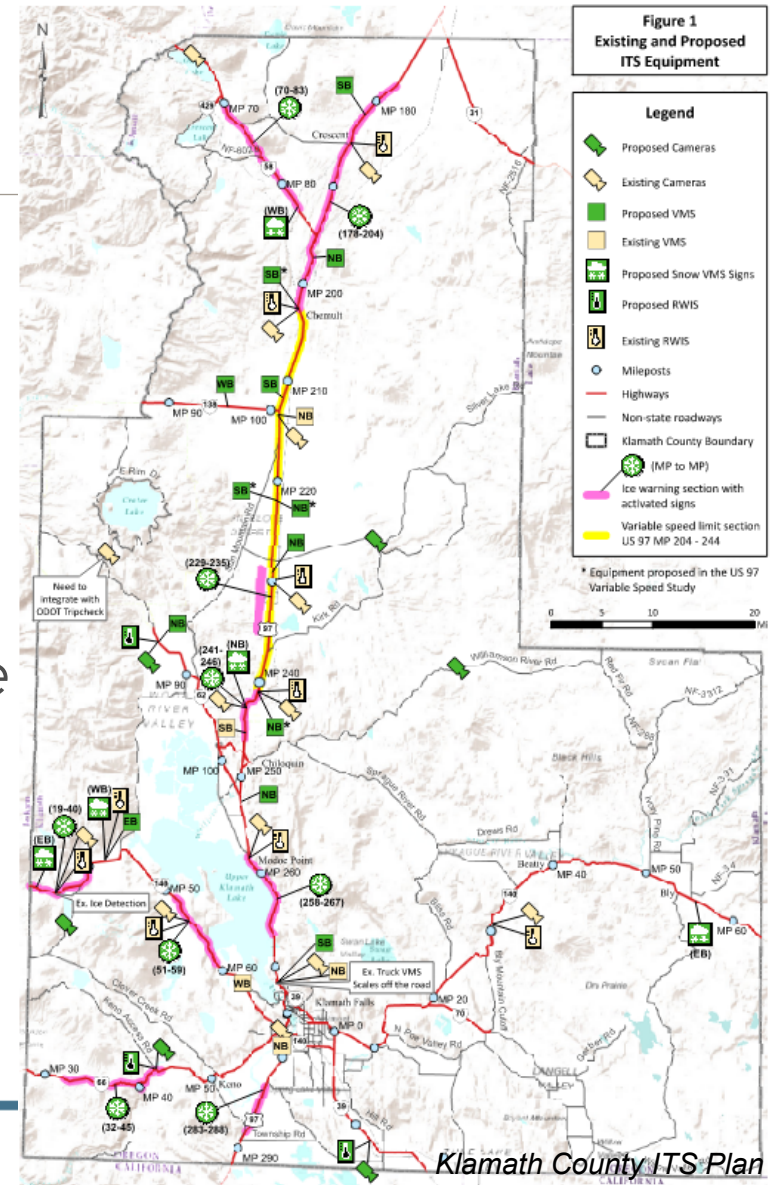
TM #4 Fig. 03



ITS SOLUTIONS

- Key need – more connected and reliable ITS infrastructure
- Solutions adopted from *Klamath County ITS Plan (2016)*
 - Install additional cameras
 - Install additional variable message signs
 - Install additional road weather information systems (ice detection)
 - Transition-board data tracking

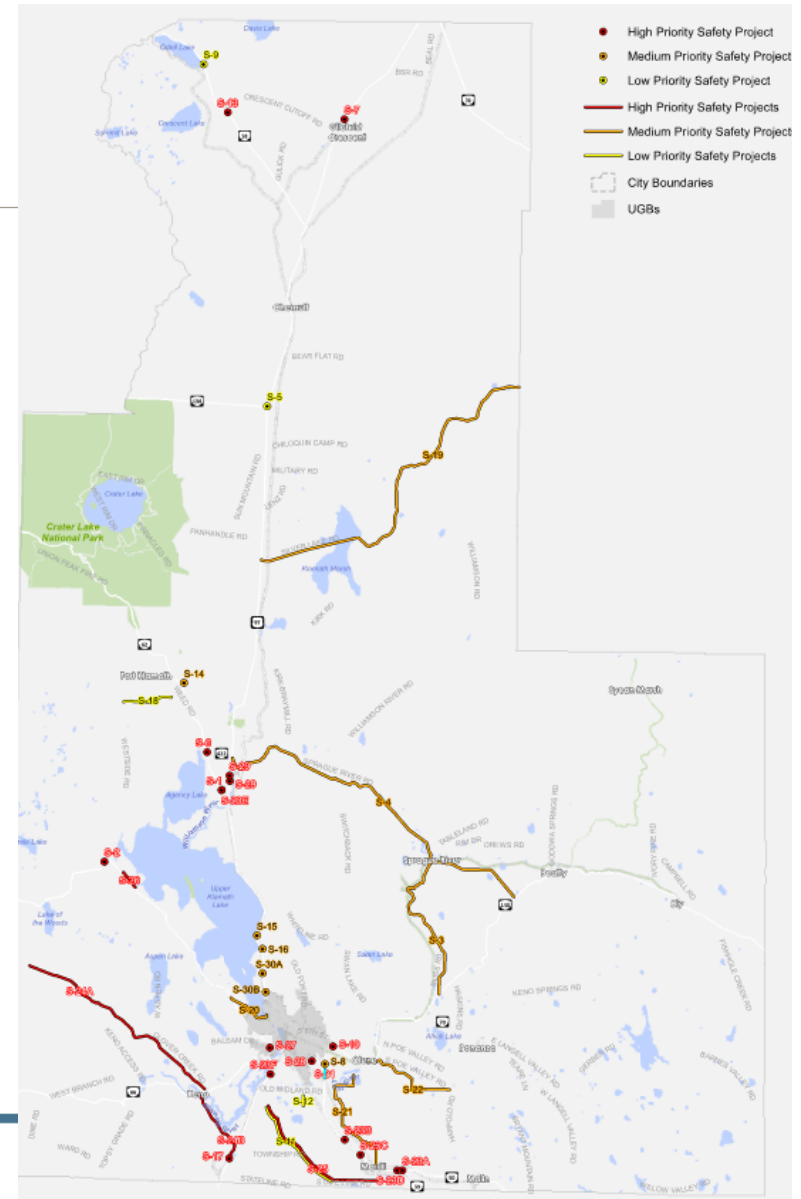
TM #4 Fig. 04



SAFETY SOLUTIONS

- **Needs identified by:**
 - Crash data analysis
 - Feedback from PAC and PMT
- **Key Needs:**
 - Speeding on rural corridors
 - Rural intersections with angle crashes
 - Intersection visibility
 - Intersection skews
 - Sight distance

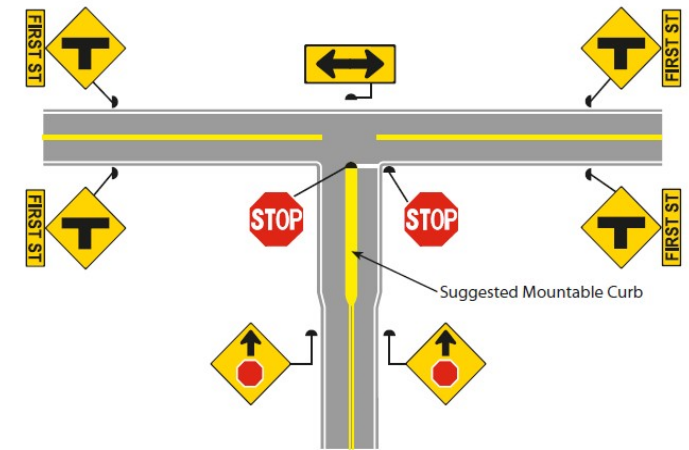
TM #4 Fig. 05



SAFETY SOLUTIONS

- **General solutions**

- *Signing and striping improvements*
- *Intersection realignment*
- *Speed feedback signs and rumble strips*

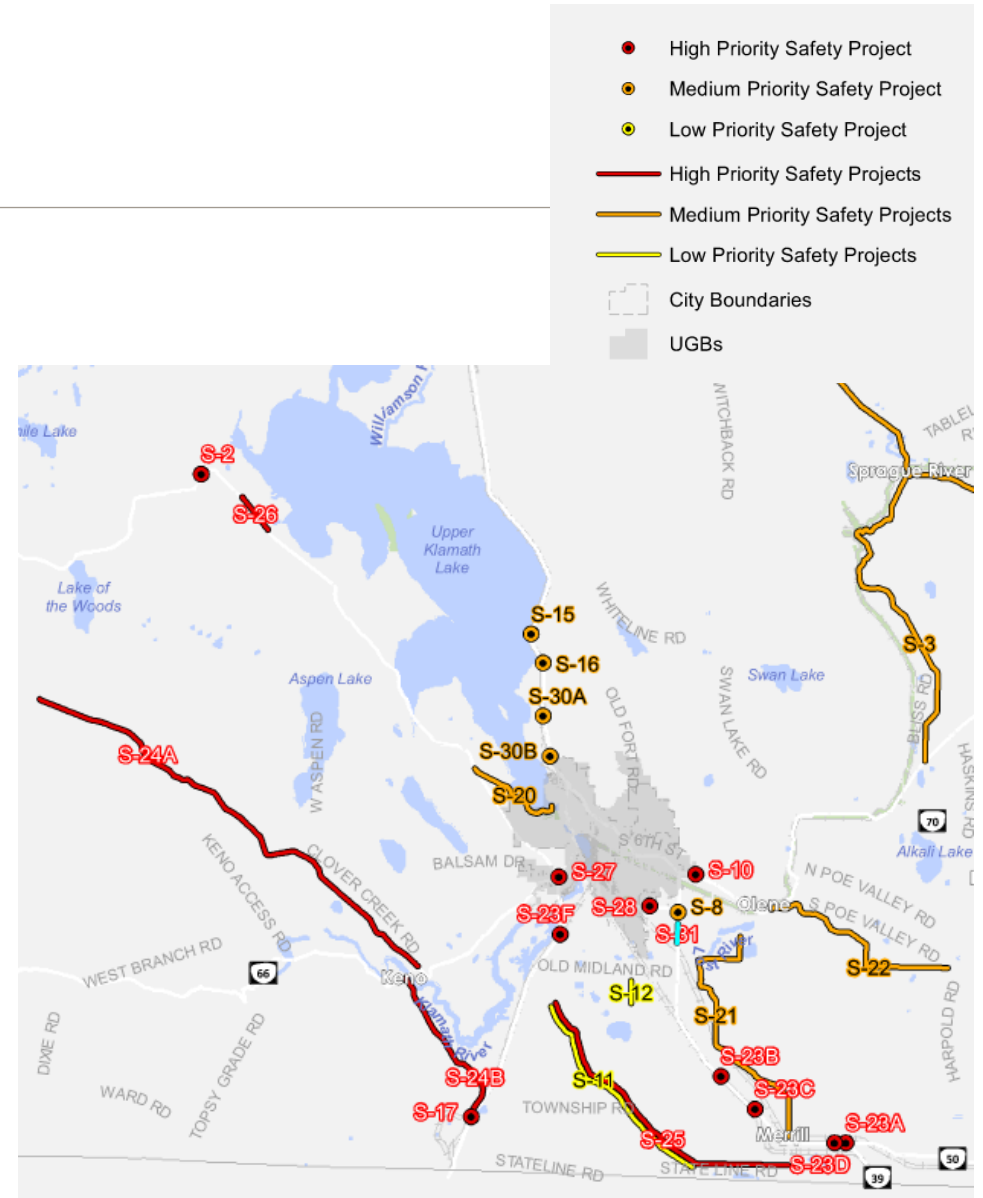


Images provided by FHWA

SAFETY

High Priority Solutions

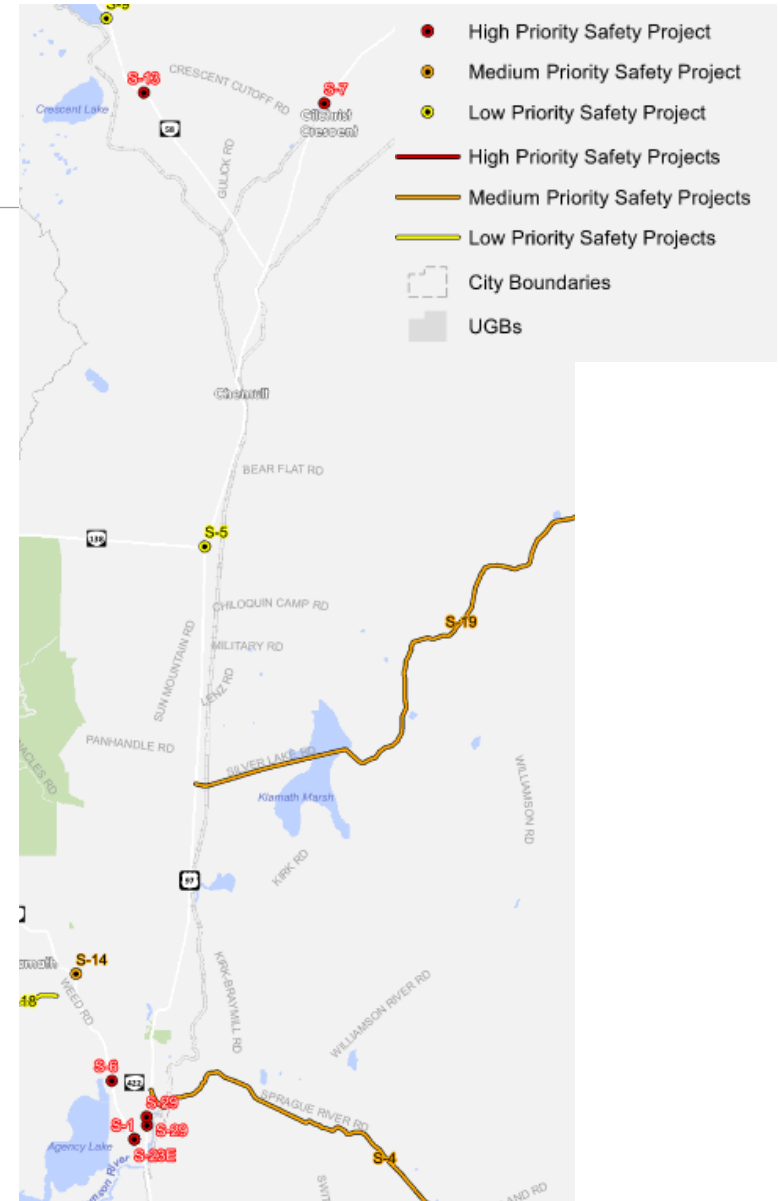
Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
S-2	OR140 & Westside Rd Intersection Safety Improvement	\$10,000	\$0
S-10	Vale Road & OR140 Intersection Safety Improvement	\$10,000	\$0
S-17	US97/Keno Worden Rd Intersection Safety Improvement	\$340,000	\$0
S-24	Systemic Curve Segment Signage and delineation	\$260,000	\$26,000
S-25	Lower Klamath Lake Road Corridor Safety Improvement	\$110,000	\$11,000
S-26	OR 140 Corridor Safety Improvement	\$520,000	\$52,000
S-27	OR66&Delap Rd Signal relocation	\$1,220,000	\$122,000
S-28	OR140/Homedale Intersection Safety Improvement	\$11,600,000	\$1,160,000
S-31	Henley School Area Safety Improvements	\$50,000	\$17,000



SAFETY

High Priority Solutions

Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
S-1	OR62& Chiloquin Road Intersection Safety Improvement	\$10,000 \$0 \$1,500,000	\$0
S-6	OR62/OR422 Intersection Safety Improvement	\$1,510,000	\$0
S-7	Mississippi Drive/US97 Intersection Safety Improvement	\$300,000	\$0
S-13	Crescent Cutoff Road/OR58 Intersection Safety Improvement	\$10,000	\$0
S-23	Intersection Systemic Sign Upgrades	\$240,000 (approx. \$40,000 each)	\$24,000 (approx. \$4,000 each)
S-29	S Chiloquin Road Curve Safety Improvement	\$90,000	\$9,000



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the safety solutions?

- a) *Yes, I generally support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
- e) *Unsure at this time*



SAFETY SOLUTION – DISCUSSION

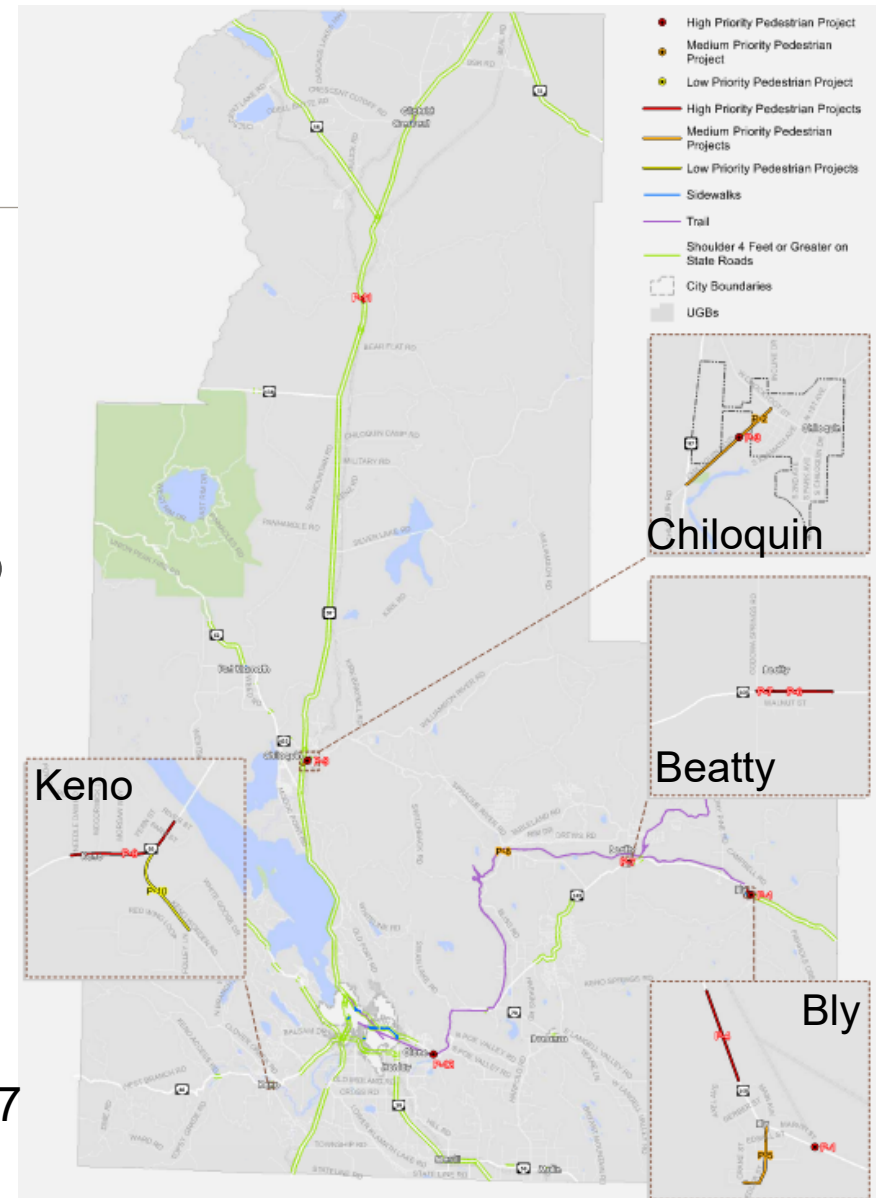
- **Feedback**

- *Did we address the safety needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



PEDESTRIAN SOLUTIONS

- **Key Needs:**
 - Limited pedestrian facilities in rural communities
 - Gaps in pedestrian routes to key activity centers such as schools

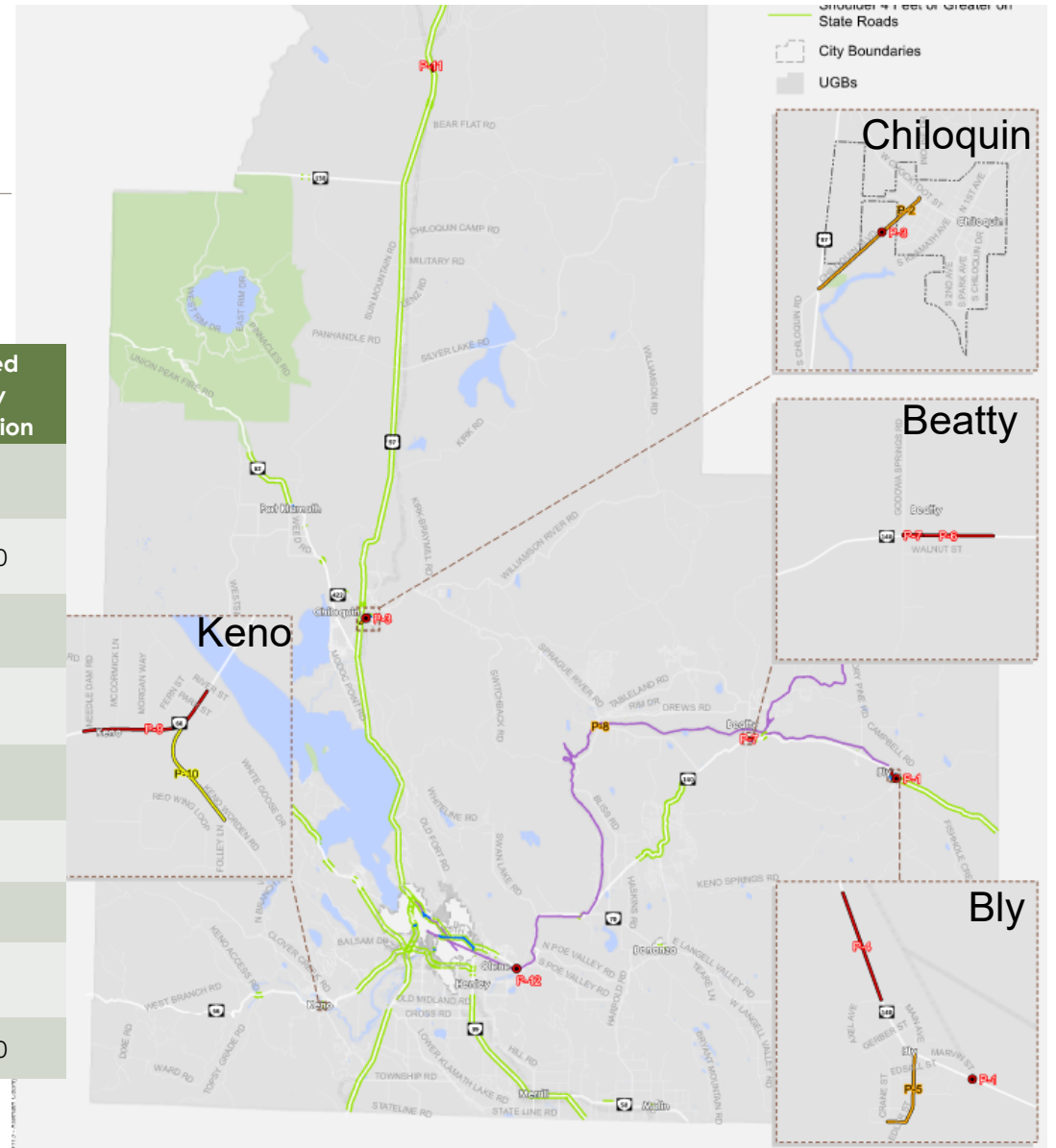


TM #4 Fig. 07

PEDESTRIAN

High Priority Solutions

Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
P-1	Enhanced crossing on OR140 at OC&E Trail - Bly	\$80,000	\$0
P-3	Install mid-block crossing on Chiloquin Hwy	\$710,000	\$71,000
P-4	Resurface shared-use path on OR140 in Bly	\$330,000	\$0
P-6	Construct sidewalk on northside of OR140 in Beatty	\$200,000	\$0
P-7	Construct sidewalk on southside of OR140 in Beatty	\$40,000	\$0
P-9	Construct sidewalk on OR66 in Keno	\$460,000	\$0
P-11	Construct sidewalk on US97 in Chemult	\$610,000	\$0
P-12	Enhanced crossing on OR140 at OC&E Trail - Dairy	\$80,000	\$0
P-13	ADA ramp installation program	\$200,000	\$20,000



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the pedestrian solutions?

- a) *Yes, I support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
- e) *Unsure at this time*



PEDESTRIAN SOLUTION – DISCUSSION

- **Feedback**

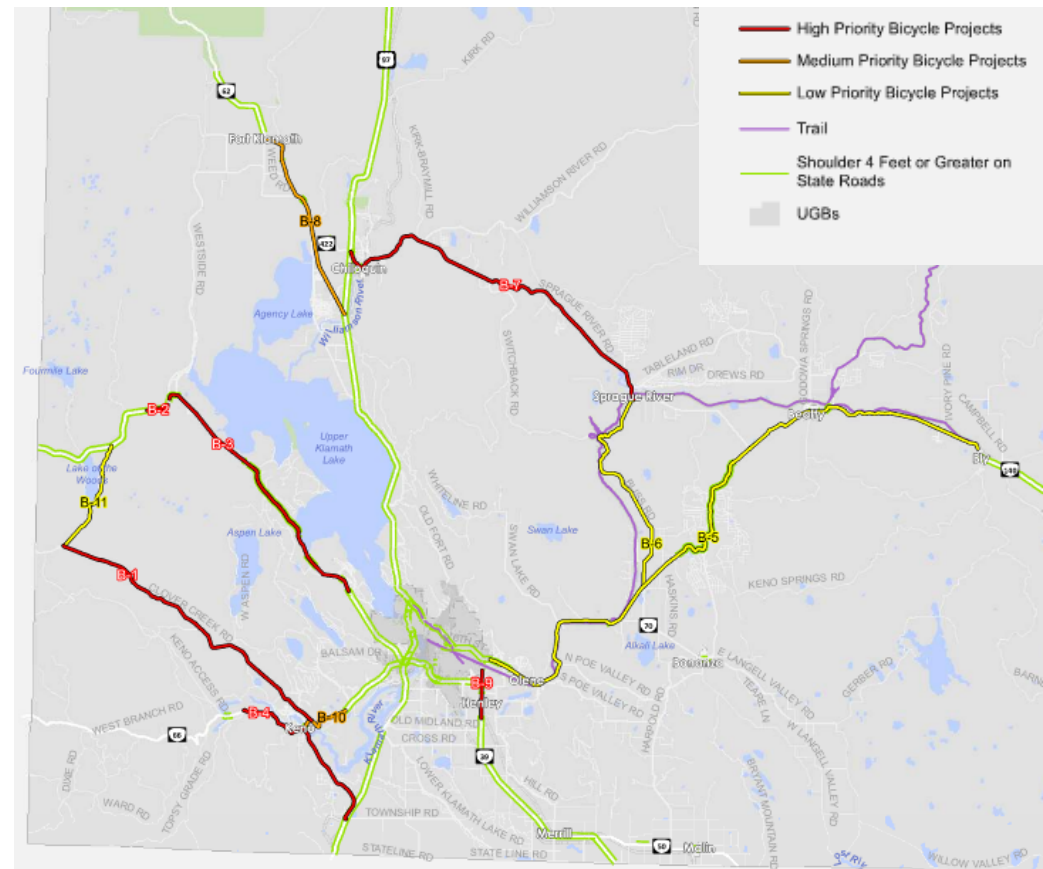
- *Did we address the pedestrian/walking needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



BICYCLE SOLUTIONS

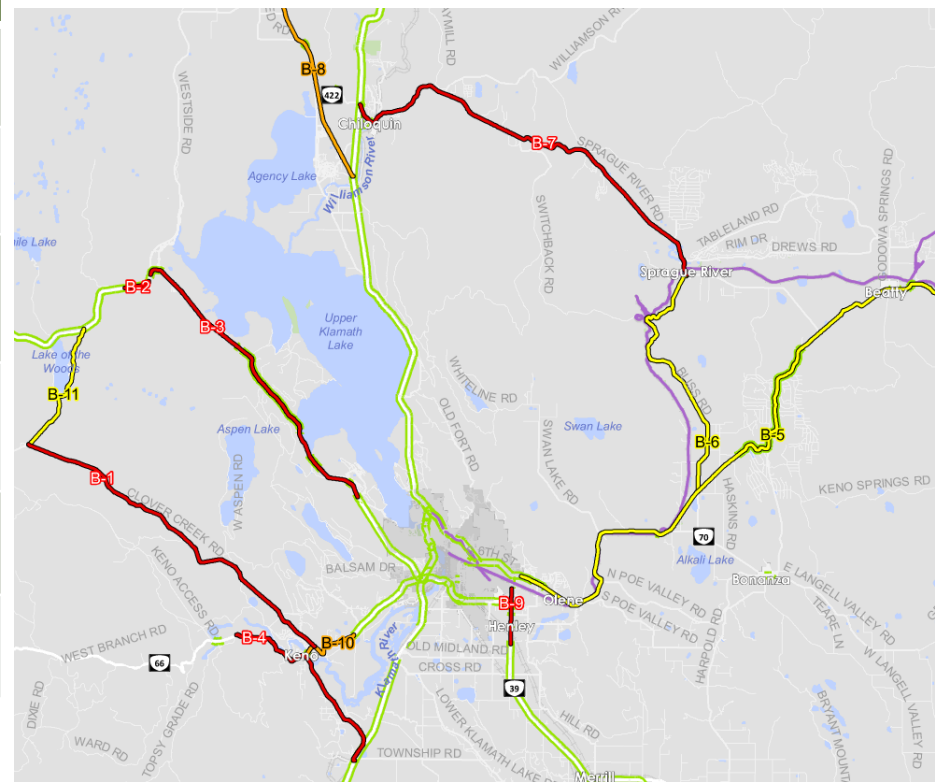
- **Key Needs:**
 - Lack of adequate shoulders
 - Disconnected bicycle network

TM #4 Fig. 08



BICYCLE SOLUTIONS

Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
B-1	Widen Shoulders on Clover Creek Road	\$21,470,000	\$21,470,000
B-2	Widen Shoulders on OR140 west of Westside Road	\$1,770,000	\$0
B-3	Widen Shoulders on OR140 east of Westside Road	\$9,840,000	\$0
B-4	Widen Shoulders on OR66 and Keno Worden Road	\$12,990,000	\$0
B-7	Widen Shoulders on Sprague River Road	\$26,570,000	\$26,570,000
B-9	Widen Shoulders on OR39	\$3,350,000	\$0



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the bicycle solutions?

- a) *Yes, I support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
- e) *Unsure at this time*



BICYCLE SOLUTION – DISCUSSION

- **Feedback**

- *Did we address the bicycle needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



TRANSIT SOLUTIONS

- **Projects to address needs:**
 - Currently, there are no connected public transportation services between La Pine and Klamath Falls.
 - Connections between existing routes and services are not sufficiently coordinated.
 - Rural, unincorporated communities generally lack access to Dial-A-Ride services.

Project ID	Project Name	Priority
T-1	Upgrade transit fleet vehicles	Medium
T-2	Expansion of existing services to rural communities	High
T-3	Program to create Periodic meetings amongst transit providers	High
T-4	Study to Develop/expand transit service in North Klamath County	High
T-5	Increasing Dial-A-Ride	Medium
T-6	Development of public transportation education resources	Medium



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the transit solutions?

- a) *Yes, I support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
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TRANSIT SOLUTION – DISCUSSION

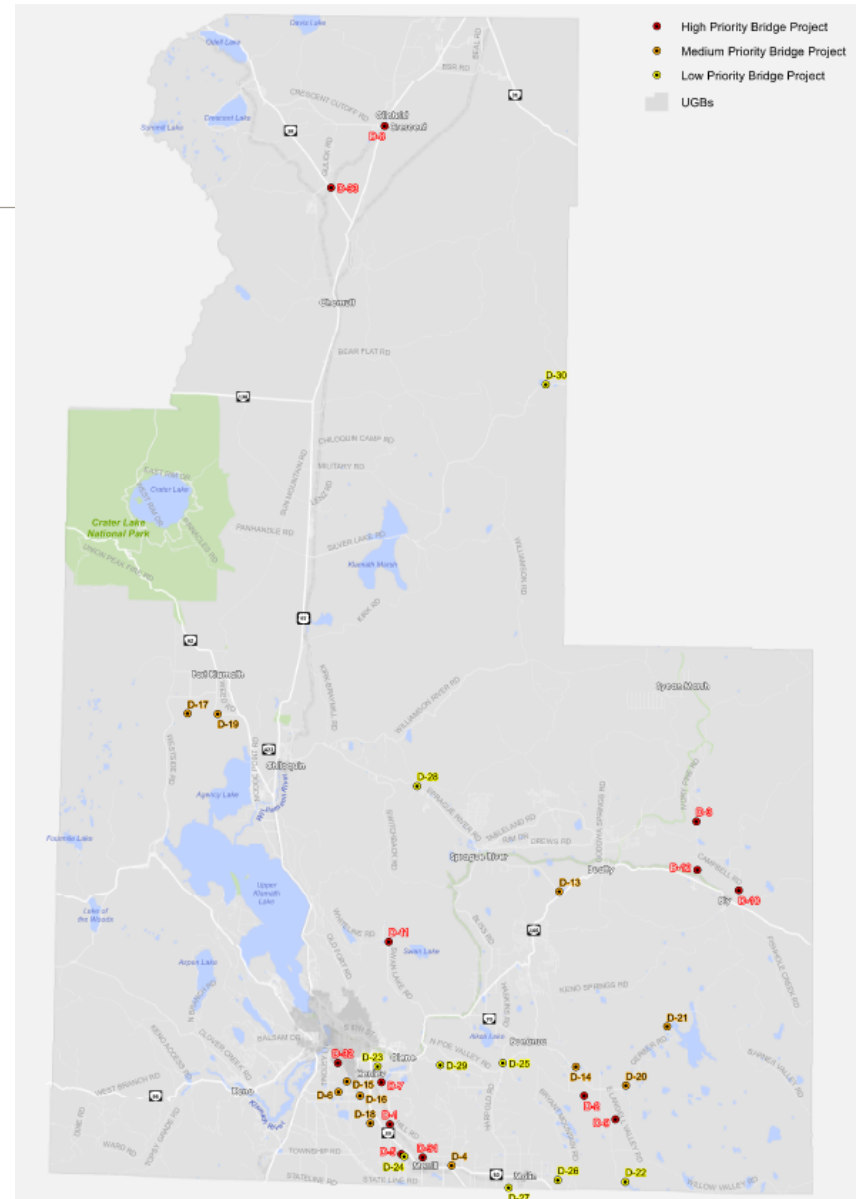
- **Feedback**

- *Did we address the transit/public transportation needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



BRIDGE SOLUTIONS

- **Projects identified from:**
 - Bridge ratings with a sufficiency rating below 70
 - The County's 10-year Bridge Rehabilitation and Replacement Project List
 - Bridges prioritized based on County "Project Tier"



OTHER TRANSPORTATION SOLUTIONS

- ***Other transportation systems include:***
 - *Rail*
 - *Air*
 - *Water/Marine*
 - *Pipeline*
- ***No needs or projects were identified for the other elements***



SUMMARY OF TSP PROJECT COSTS

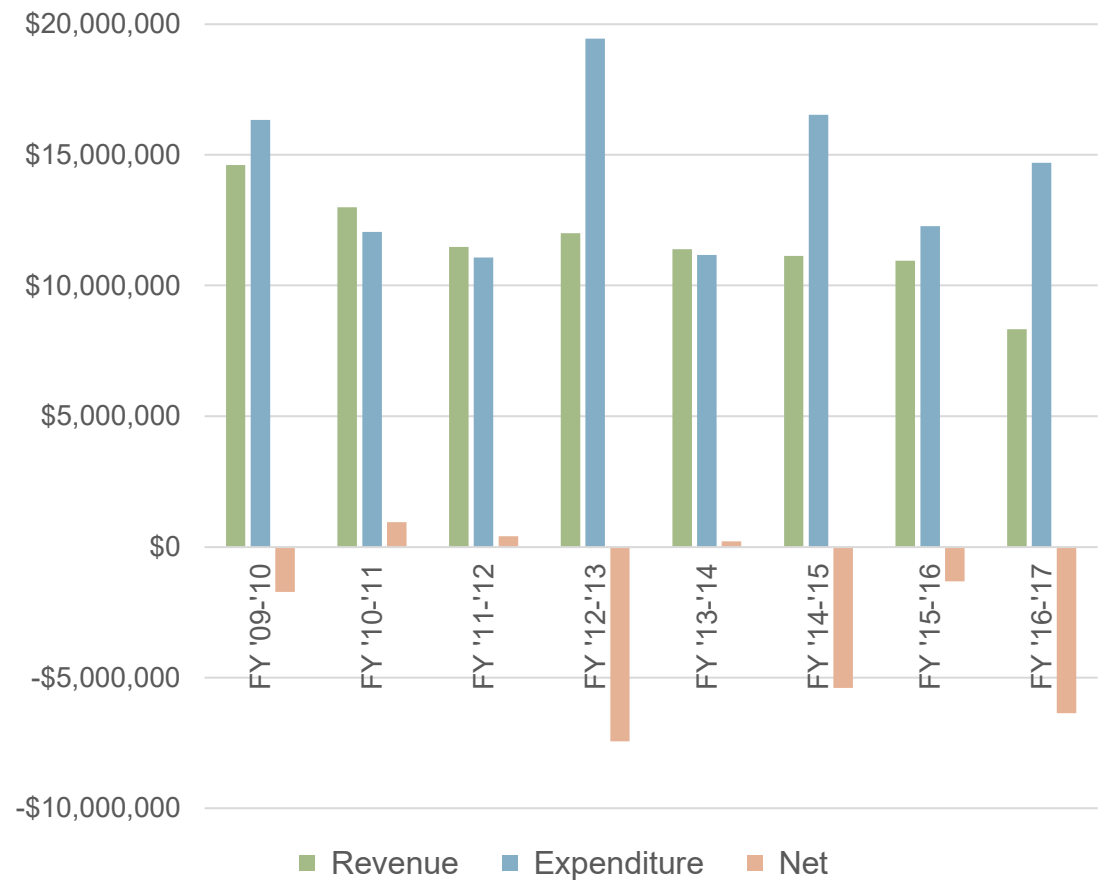
Cost Summaries by Priority and Project Type				
Project Type	High Priority	Medium Priority	Low Priority	Total
Roadway	\$25,000	\$0	\$26,100,000	\$26,125,000
ITS	\$98,000	\$28,000	\$5,000	\$131,000
Safety	\$1,397,000	\$363,000	\$7,020,000	\$8,780,000
Pedestrian	\$91,000	\$652,000	\$370,000	\$1,113,000
Bicycle	\$48,040,000	\$0	\$25,190,000	\$73,230,000
Transit	\$0	\$0	\$0	\$0
Bridge	\$4,495,000	\$6,340,000	\$5,140,000	\$15,970,000
Total	\$54,141,000	\$7,383,000	\$63,825,000	\$125,349,000
Estimated Urban TSP Cost	\$10,905,000	\$16,981,000	\$18,973,000	\$46,859,000
Grand Total	\$65,046,000	\$24,364,000	\$82,798,000	\$172,208,000

**Costs based on county contribution see TM4 for total cost*

The County would need \$172 million to fund all projects currently identified over the next 20 years

HISTORIC EXPENDITURES

- *Majority of spending has been for maintenance and operations*
- *Approx. \$800k/year spent on capital projects*
- *Average annual deficit of \$2.8 million*
- ***County needs approx. \$4M/year more for capital projects over the next 20-years to fund high priority projects only***



POTENTIAL FUNDING SOURCES

- *List located in TM 4 Table 16*
- **Identify and apply for federal/state grants**
 - Often requires a local match
- **Local Taxes and User Fees**
 - County fuel tax
 - SDC fees
 - Local bond measures



REGULATORY REVIEW OVERVIEW

- *Check for compliance with the Transportation Planning Rule (TPR)*
- *County is generally in compliance with TPR*
- *Ensure other documents are changed to be consistent with revised standards/policies/programs from this project*



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VIRTUAL OPEN HOUSE

- ***Live Virtual Public Event***

- *TODAY! 6:00-7:00pm*
- *GoToMeeting*
- *Project Overview*
- *Q&A Session*
- *Meeting will be recorded and posted*

<http://klamathcountytsp.com/>



VIRTUAL OPEN HOUSE

- **Online Open House**
 - Open August 20th – September 3rd
 - Interactive maps and commenting opportunities

KLAMATH COUNTY TSP - VIRTUAL OPEN HOUSE VIRTUAL WORKSHOP

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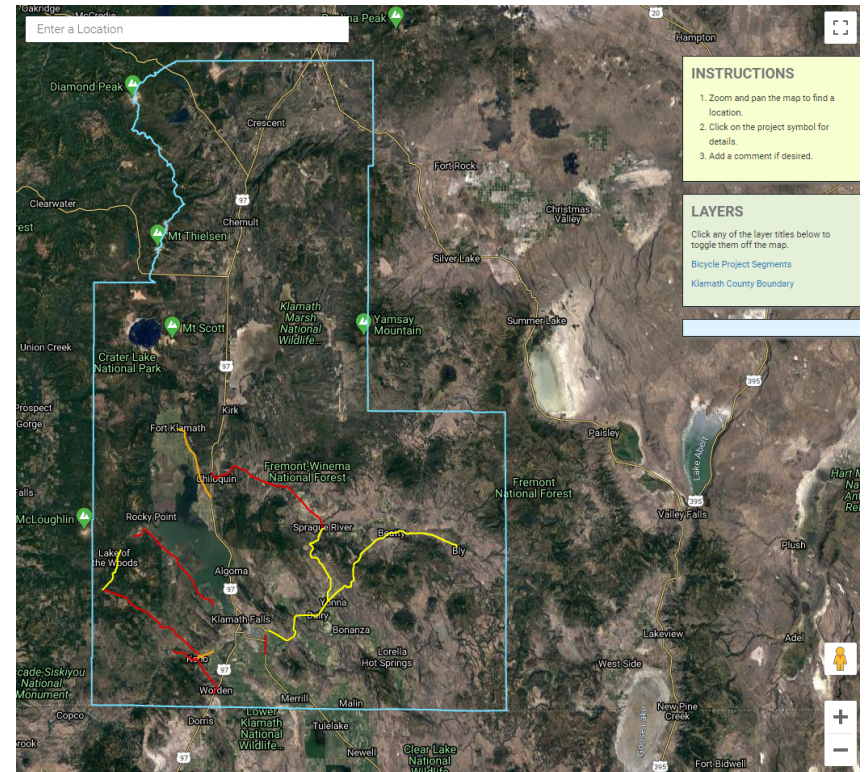
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NEXT STEPS

- **Virtual public event TONIGHT!**
 - 6pm, details on the website
 - Invite others to attend!
- **Provide Input on Tech Memo #4**
 - Please provide comments by **Thursday, September 3rd**
- **Tech Memo #5 will be distributed by email in late October/early November**
 - No PAC meeting will be held
 - Please plan to review and provide written comments
- **PAC Meeting #4: December 2020/January 2021**
 - Draft Plan will be reviewed





Project Advisory Committee (PAC) Meeting #3
August 20, 2020
3:00 pm - 5:00 pm

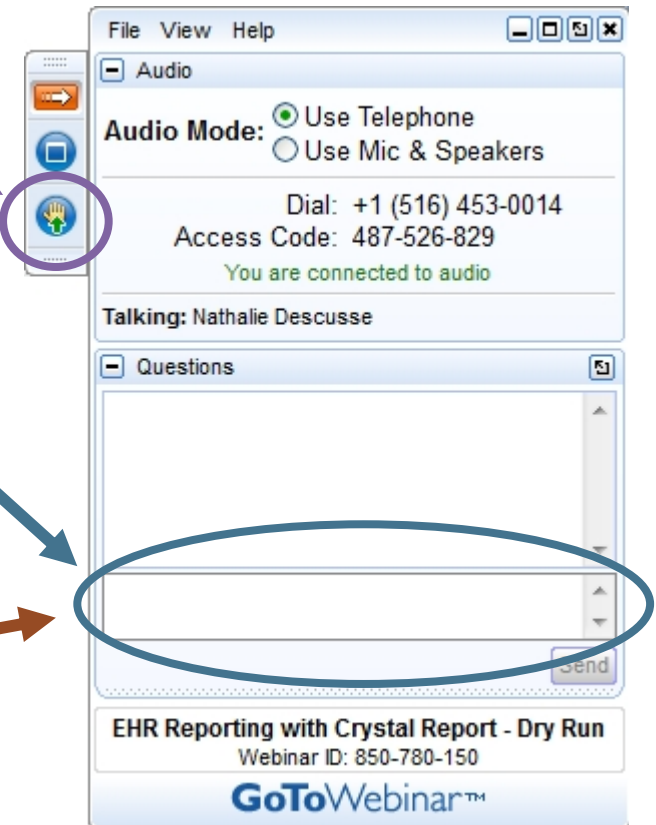
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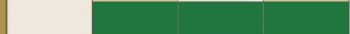
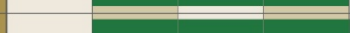
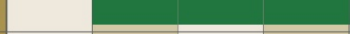
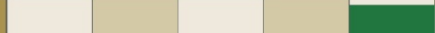

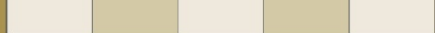

















PROJECT PURPOSE AND NEED

- **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**



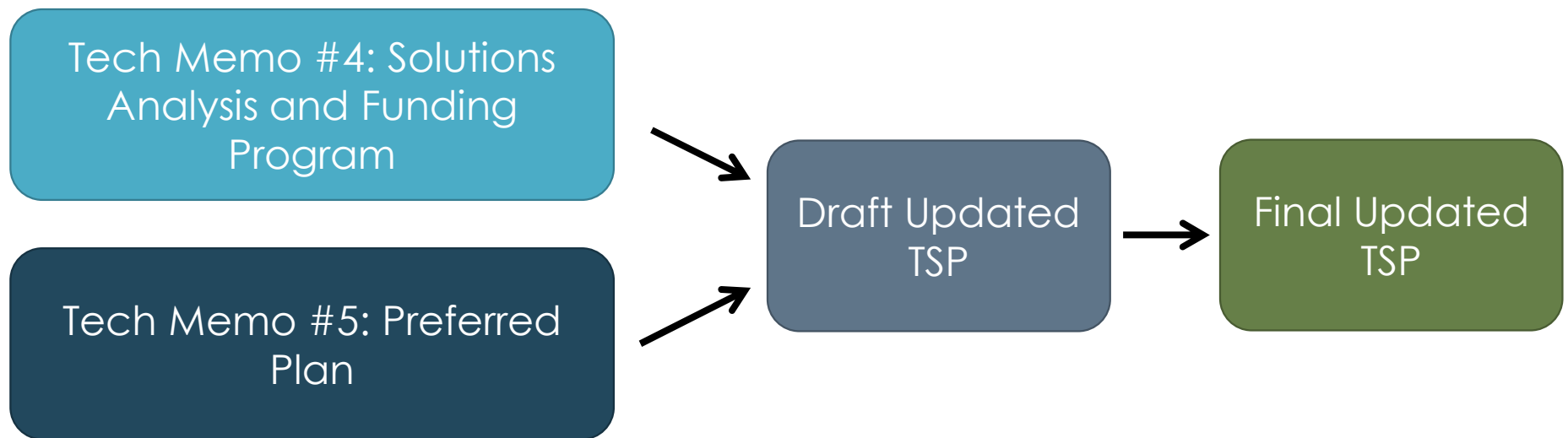
PROJECT SCHEDULE

	2020												2021		
month	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	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															

We Are Here



REMAINING PROJECT DOCUMENTS



Open Tech Memo #4 on your browser if possible, to view figures and tables



MEETING AGENDA

- **Virtual Meeting Etiquette (Reminder)**
- **Project Overview**
 - Purpose and Need
 - Schedule
 - Next Steps
- **Solutions Analysis and Funding Program (Tech Memo #4)**
- **Virtual Open House**
- **Next Steps**



SOLUTIONS ANALYSIS AND FUNDING PROGRAM (TM#4)

- **Addresses gaps and deficiencies in *Existing and Future Conditions Inventory Analysis (TM #3)***
- **Includes:**
 - Policies, programs and projects to address needs
 - Planning level cost estimates
 - Project evaluation and proposed prioritization
 - Projects prioritized based on evaluation criteria from the TSP Goals



HOW TO PROVIDE YOUR FEEDBACK

- Polling during meeting
- Discussion during meeting
- “Chat Box” during meeting
- Online Interactive Map
- Email to Jeremy (Klamath County)

KLAMATH COUNTY TSP - VIRTUAL OPEN HOUSE VIRTUAL WORKSHOP

WELCOME	ABOUT THE PROJECT	GOALS AND OBJECTIVES	ROADWAY PLAN	SAFETY PLAN	PEDESTRIAN PLAN	BICYCLE PLAN
TRANSIT PLAN	AIR, RAIL, BRIDGE, WATER, AND PIPELINE PLAN	FUNDING	NEXT STEPS			

WELCOME!

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WATCH THE VIRTUAL PUBLIC EVENT LIVE STREAM RECAP!



POLL QUESTION

*Have you reviewed Tech
Memo #4?*

- a) Yes*
- b) Not Yet*
- c) Partially*



SOLUTIONS ANALYSIS AND FUNDING PROGRAM (TM#4)

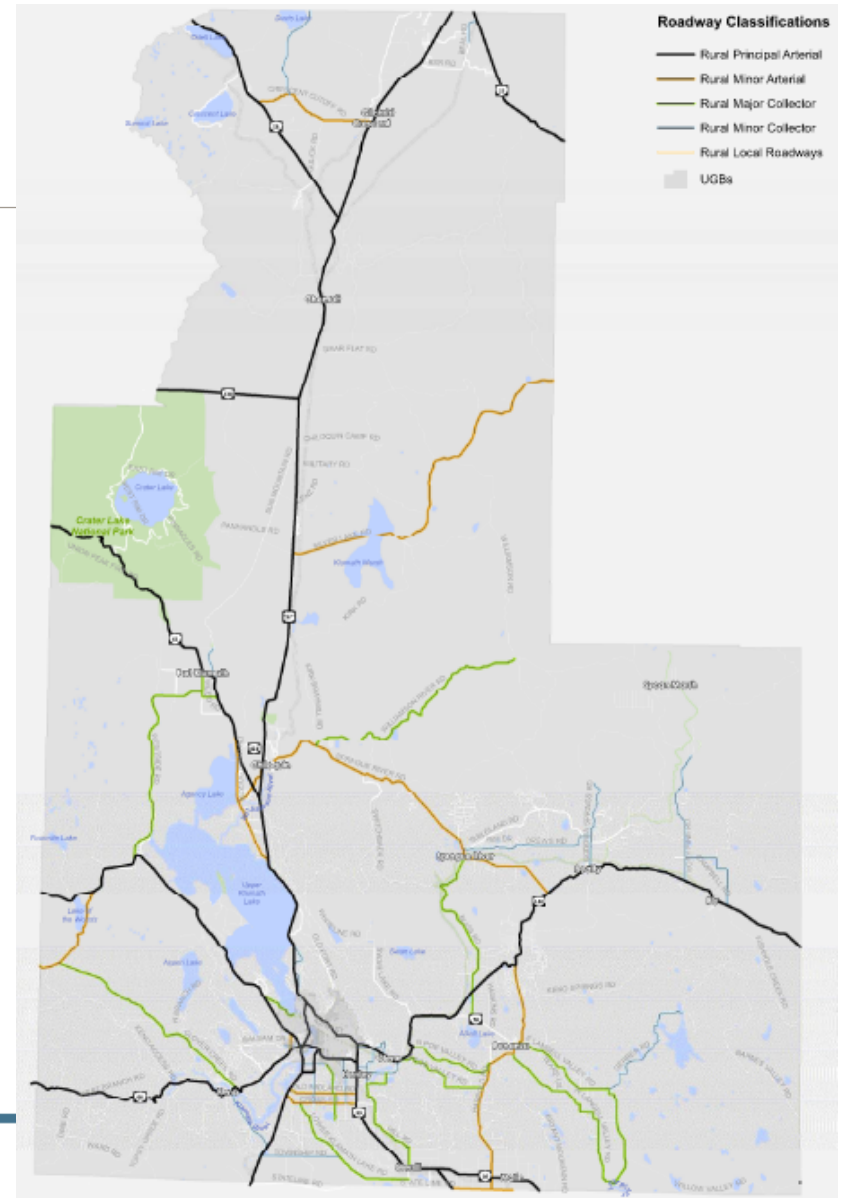
- **Street System Solutions**
 - Roadway Solutions
 - Freight Solutions
 - ITS Solutions
 - Traffic Safety Improvements
- **Multimodal System**
 - Pedestrian Solutions
 - Bicycle Solutions
 - Public Transit Services
- **Other Transportation System Solutions**
- **Funding Sources**



ROADWAY SYSTEM

- **County updates to:**
 - Functional Classification
 - Rural and Urban
 - Roadway Design Standards
 - Rural and Urban
 - Access Management
 - Rural and Urban

TM #4 Fig. 01



SOLUTION EXAMPLE

Table 7. Proposed Roadway Solutions

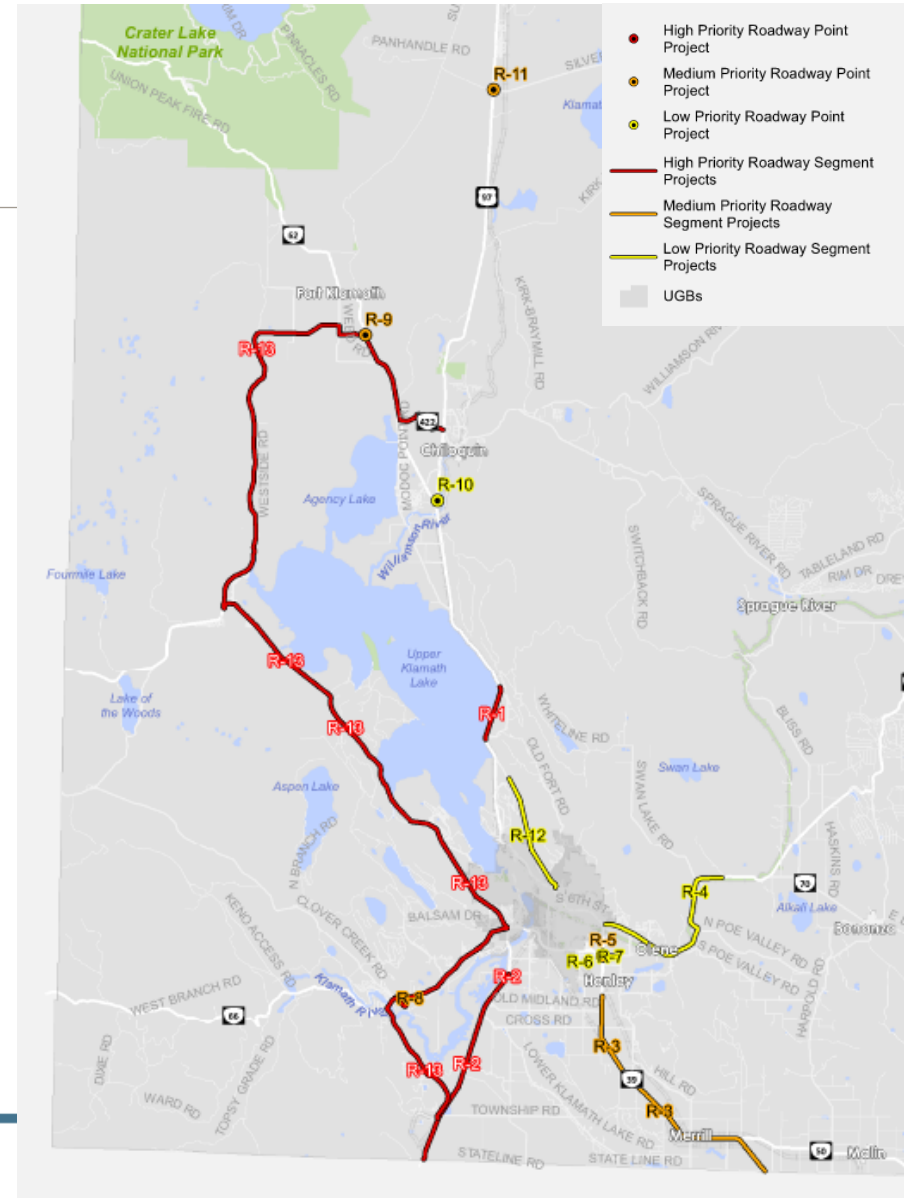
Project ID	Project Name	Project Description	Cost Estimate	Expected County Contribution	Funding Partner	Lead Agency	Proposed Priority
R-3	OR39 South Passing Lane Study	Conduct a passing lane feasibility study on OR39 south of Klamath Falls to the California border to determine the best location for passing lanes	\$50,000	\$0	ODOT	ODOT	Medium



ROADWAY SOLUTIONS

- **Key Needs:**
 - Passing lanes
 - New connections
 - Intersection improvements
- **Key Solutions:**
 - Feasibility studies for passing lanes
 - Intersection evaluations
 - Corridor extension projects

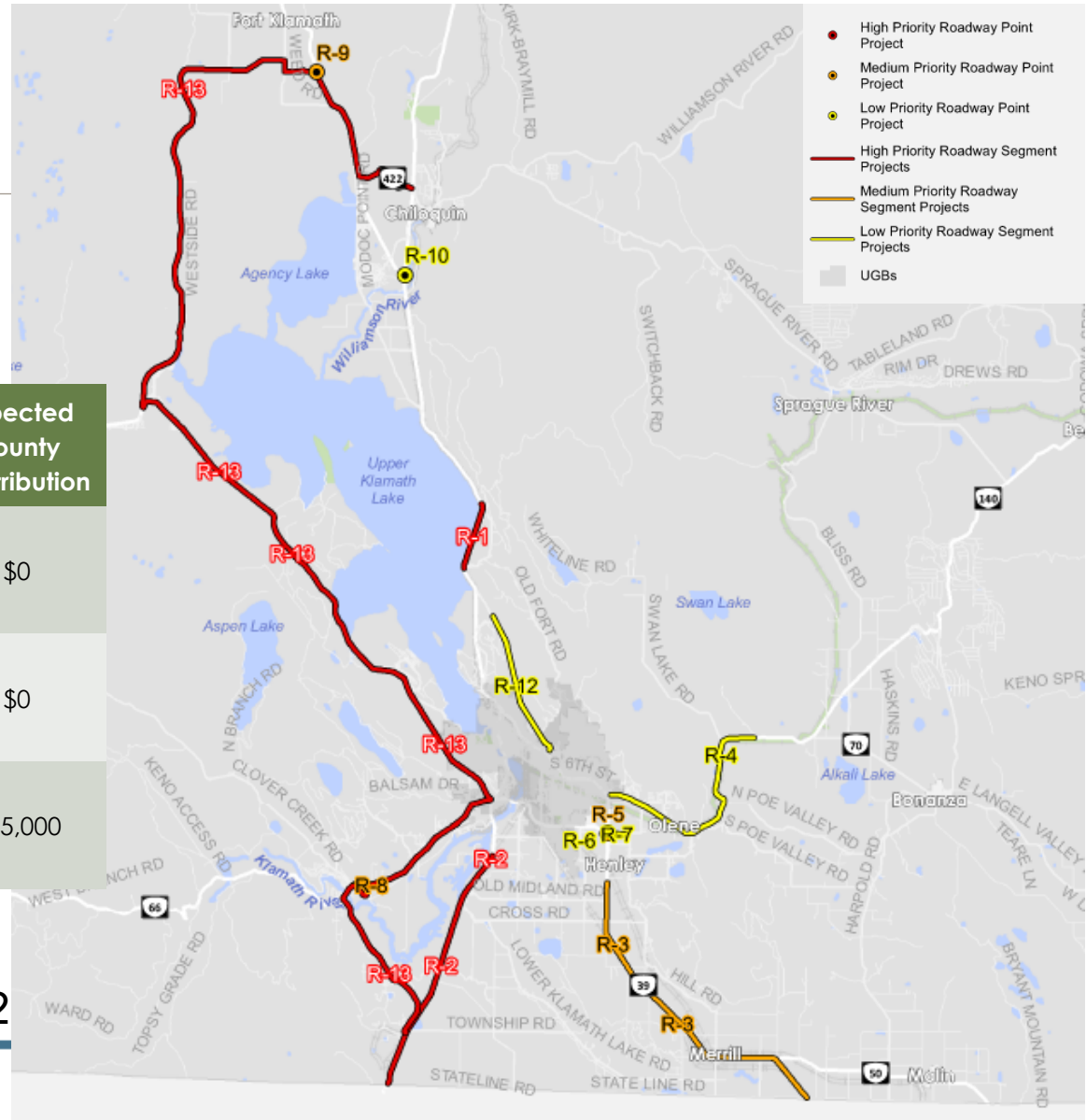
TM #4 Fig. 02



ROADWAY

High Priority Solutions

Project ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
R-1	US97 North Passing Lane Study	\$50,000	\$0
R-2	US97 South Passing Lane Study	\$50,000	\$0
R-13	Alternate Emergency Route to US97	\$50,000	\$25,000



TM #4 Fig. 02

POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the roadway solutions?

- a) *Yes, I generally support the solutions as presented*
- b) *Yes, I support the solutions but think priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some solutions presented*
- e) *Unsure at this time*



ROADWAY SOLUTION – DISCUSSION

- **Feedback**

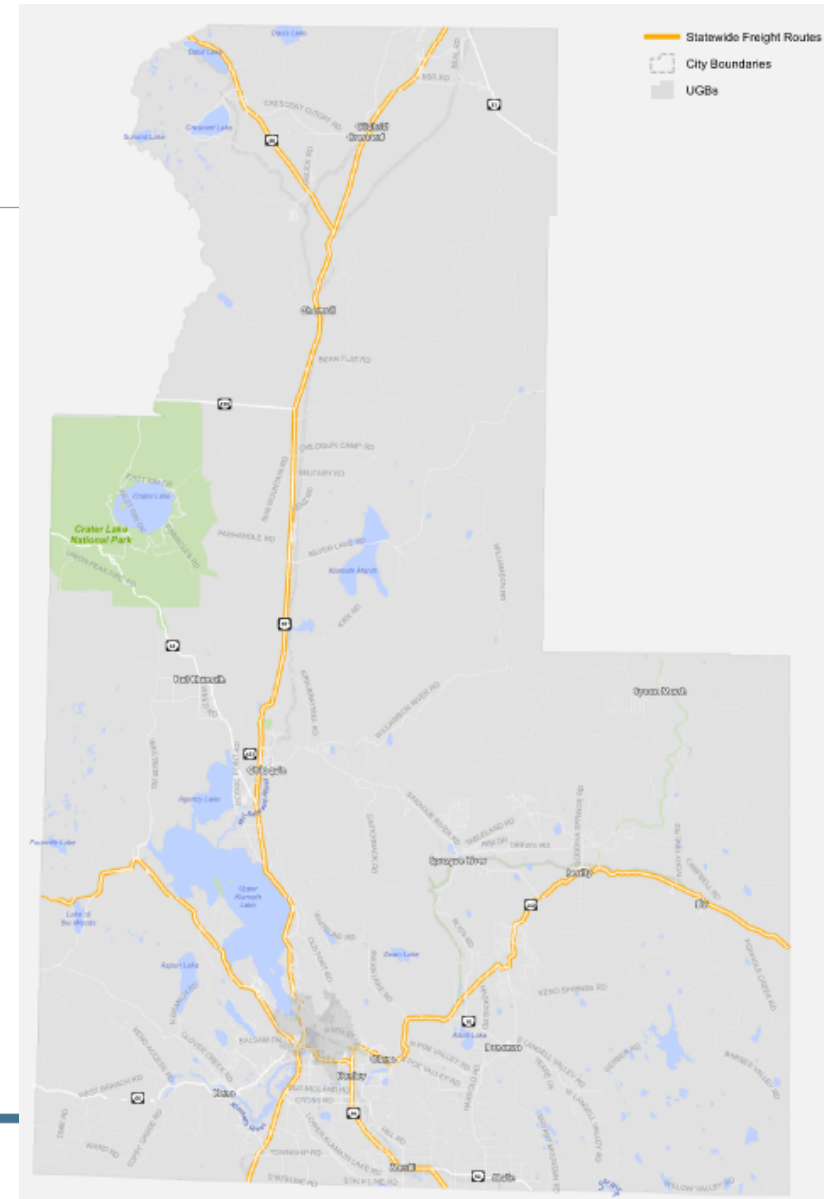
- *Did we address the roadway needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



FREIGHT SOLUTIONS

- No new freight routes
- Alternate Emergency Route (R-13)
 - Serves as alternate to US97

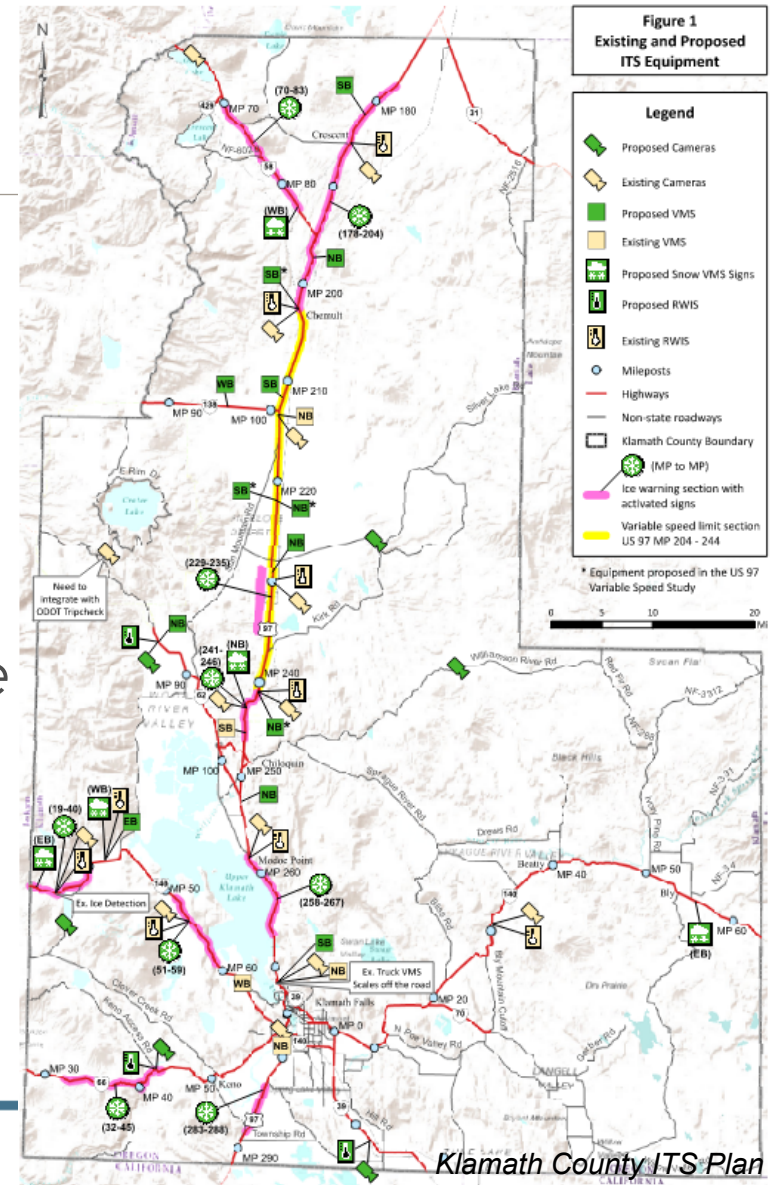
TM #4 Fig. 03



ITS SOLUTIONS

- Key need – more connected and reliable ITS infrastructure
- Solutions adopted from *Klamath County ITS Plan (2016)*
 - Install additional cameras
 - Install additional variable message signs
 - Install additional road weather information systems (ice detection)
 - Transition-board data tracking

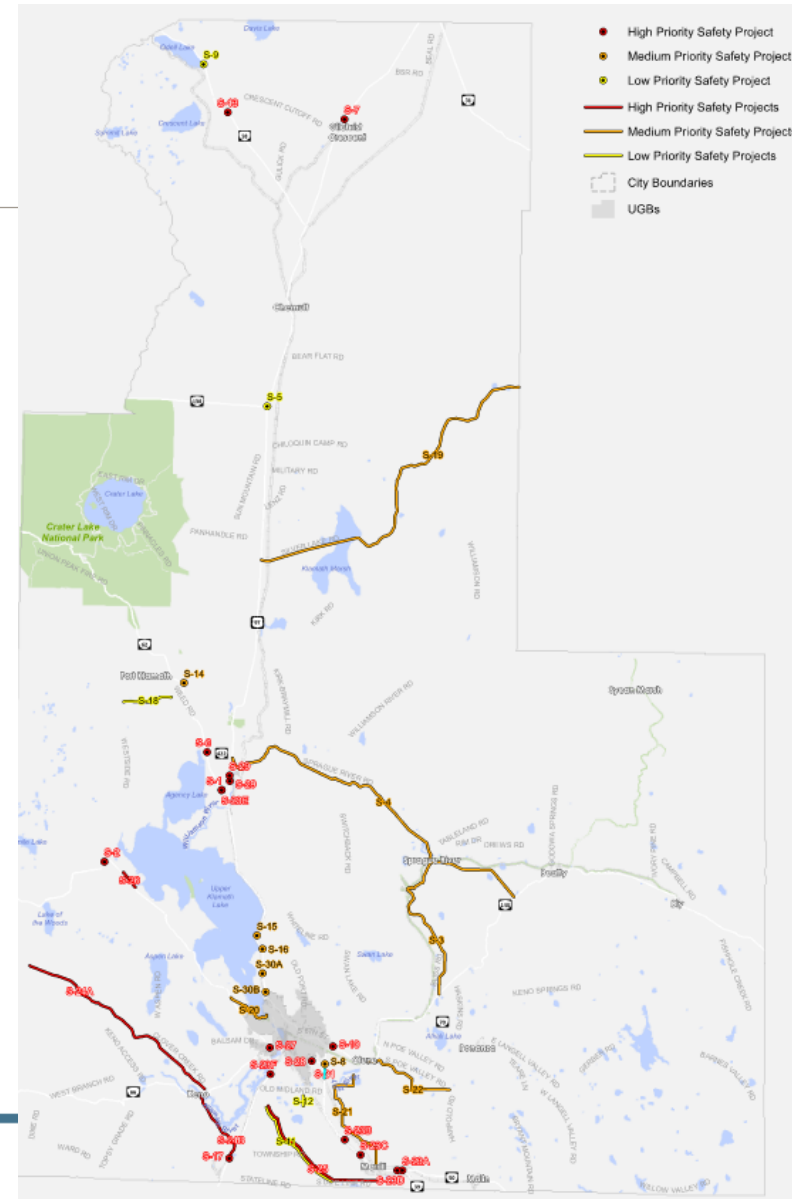
TM #4 Fig. 04



SAFETY SOLUTIONS

- **Needs identified by:**
 - Crash data analysis
 - Feedback from PAC and PMT
- **Key Needs:**
 - Speeding on rural corridors
 - Rural intersections with angle crashes
 - Intersection visibility
 - Intersection skews
 - Sight distance

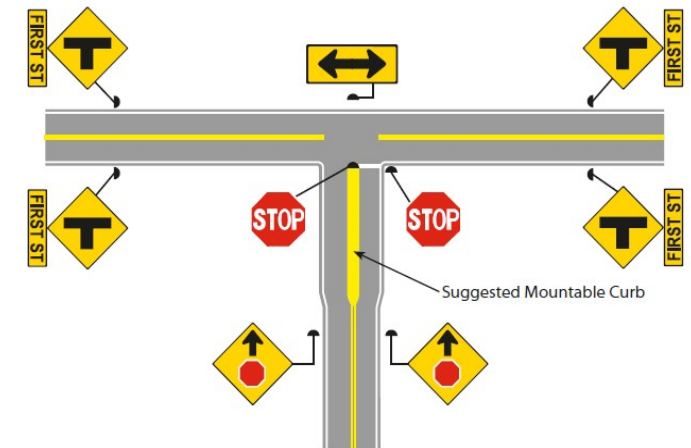
TM #4 Fig. 05



SAFETY SOLUTIONS

- **General solutions**

- *Signing and striping improvements*
- *Intersection realignment*
- *Speed feedback signs and rumble strips*

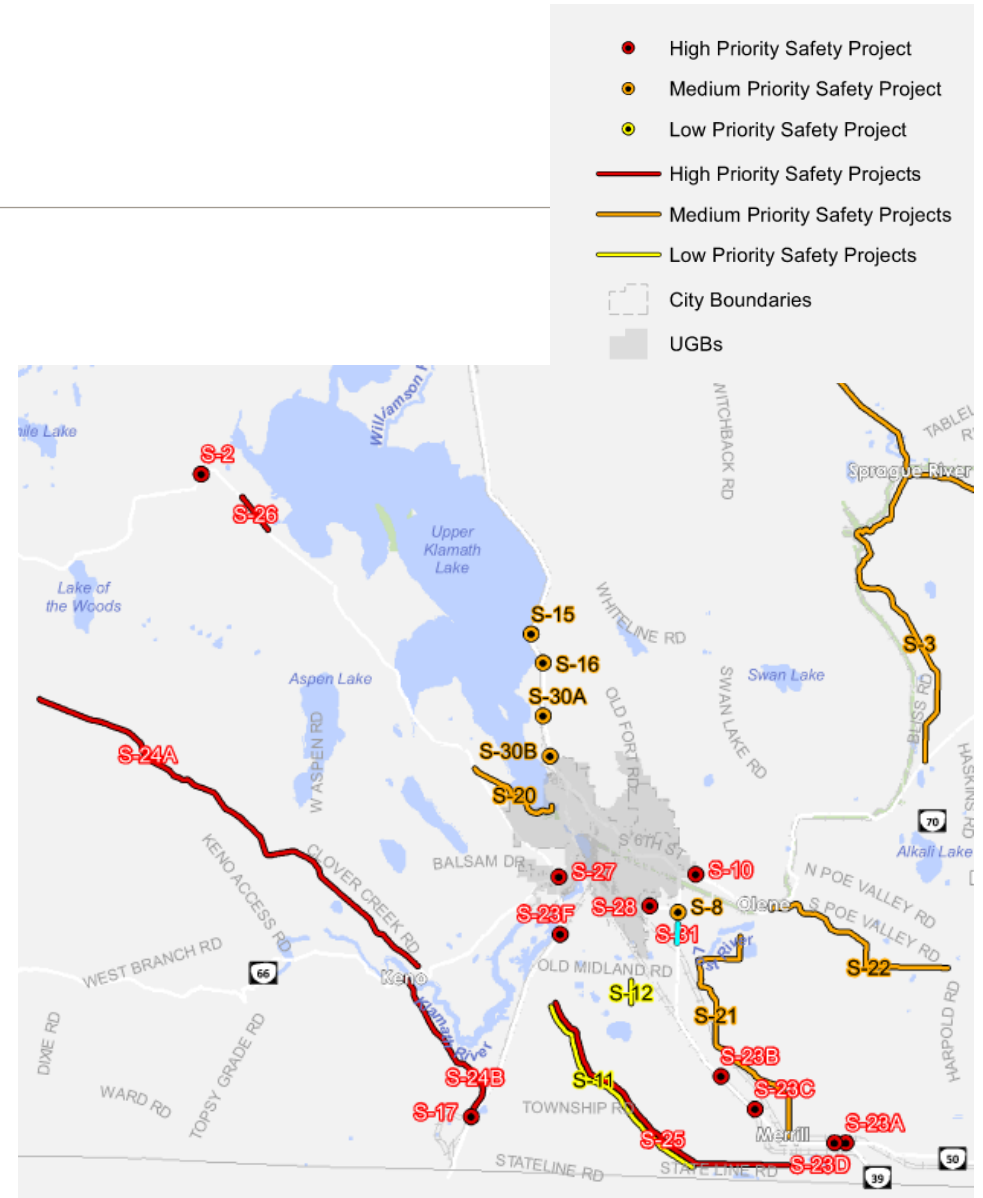


Images provided by FHWA

SAFETY

High Priority Solutions

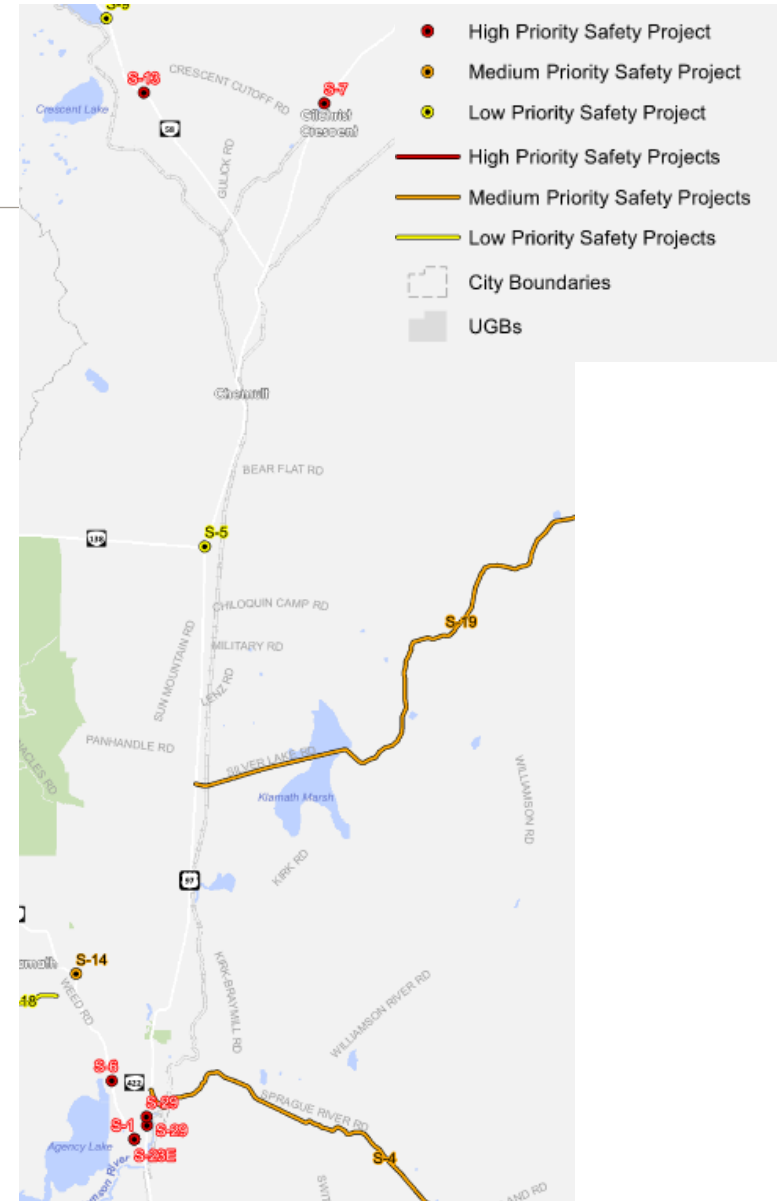
Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
S-2	OR140 & Westside Rd Intersection Safety Improvement	\$10,000	\$0
S-10	Vale Road & OR140 Intersection Safety Improvement	\$10,000	\$0
S-17	US97/Keno Worden Rd Intersection Safety Improvement	\$340,000	\$0
S-24	Systemic Curve Segment Signage and delineation	\$260,000	\$26,000
S-25	Lower Klamath Lake Road Corridor Safety Improvement	\$110,000	\$11,000
S-26	OR 140 Corridor Safety Improvement	\$520,000	\$52,000
S-27	OR66&Delap Rd Signal relocation	\$1,220,000	\$122,000
S-28	OR140/Homedale Intersection Safety Improvement	\$11,600,000	\$1,160,000
S-31	Henley School Area Safety Improvements	\$50,000	\$17,000



SAFETY

High Priority Solutions

Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
S-1	OR62& Chiloquin Road Intersection Safety Improvement	\$10,000 \$0 \$1,500,000	\$0
S-6	OR62/OR422 Intersection Safety Improvement	\$1,510,000	\$0
S-7	Mississippi Drive/US97 Intersection Safety Improvement	\$300,000	\$0
S-13	Crescent Cutoff Road/OR58 Intersection Safety Improvement	\$10,000	\$0
S-23	Intersection Systemic Sign Upgrades	\$240,000 (approx. \$40,000 each)	\$24,000 (approx. \$4,000 each)
S-29	S Chiloquin Road Curve Safety Improvement	\$90,000	\$9,000



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the safety solutions?

- a) *Yes, I generally support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
- e) *Unsure at this time*



SAFETY SOLUTION – DISCUSSION

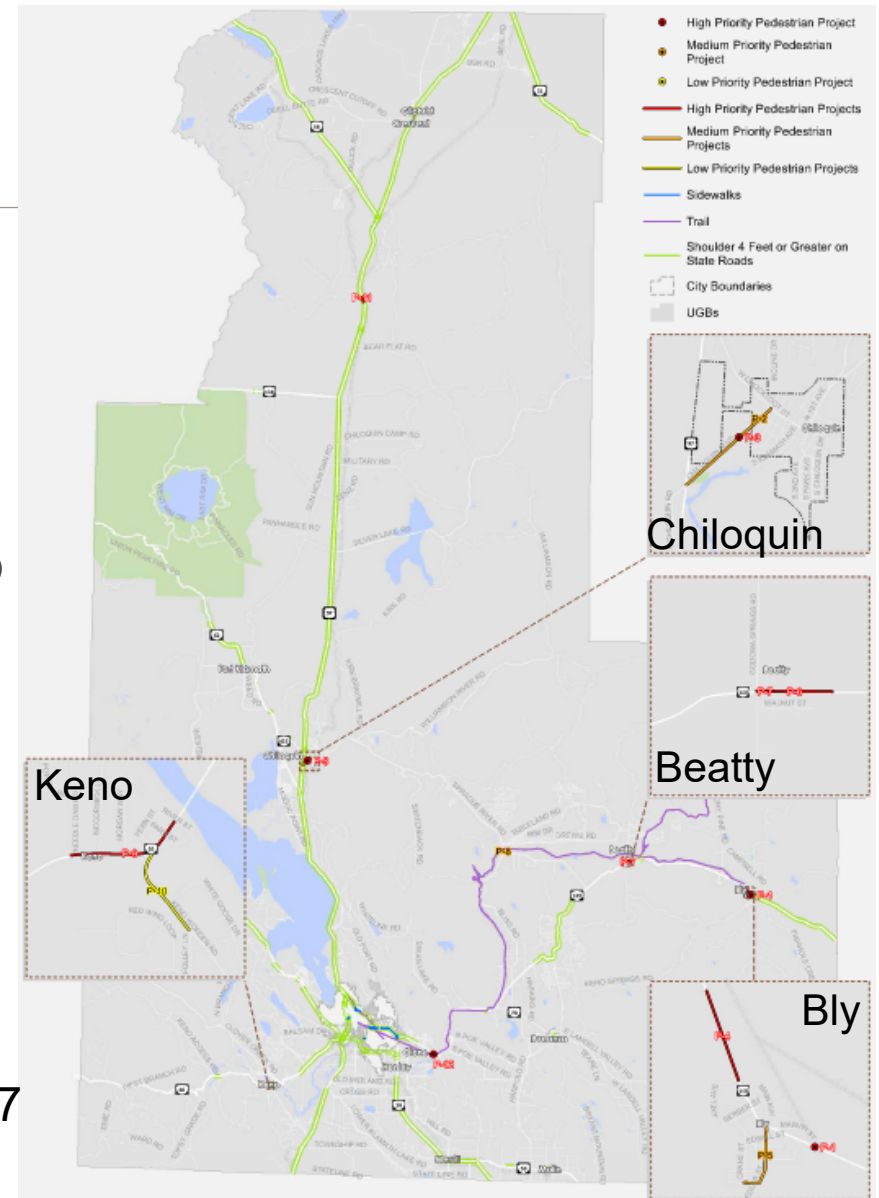
- **Feedback**

- *Did we address the safety needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



PEDESTRIAN SOLUTIONS

- **Key Needs:**
 - Limited pedestrian facilities in rural communities
 - Gaps in pedestrian routes to key activity centers such as schools

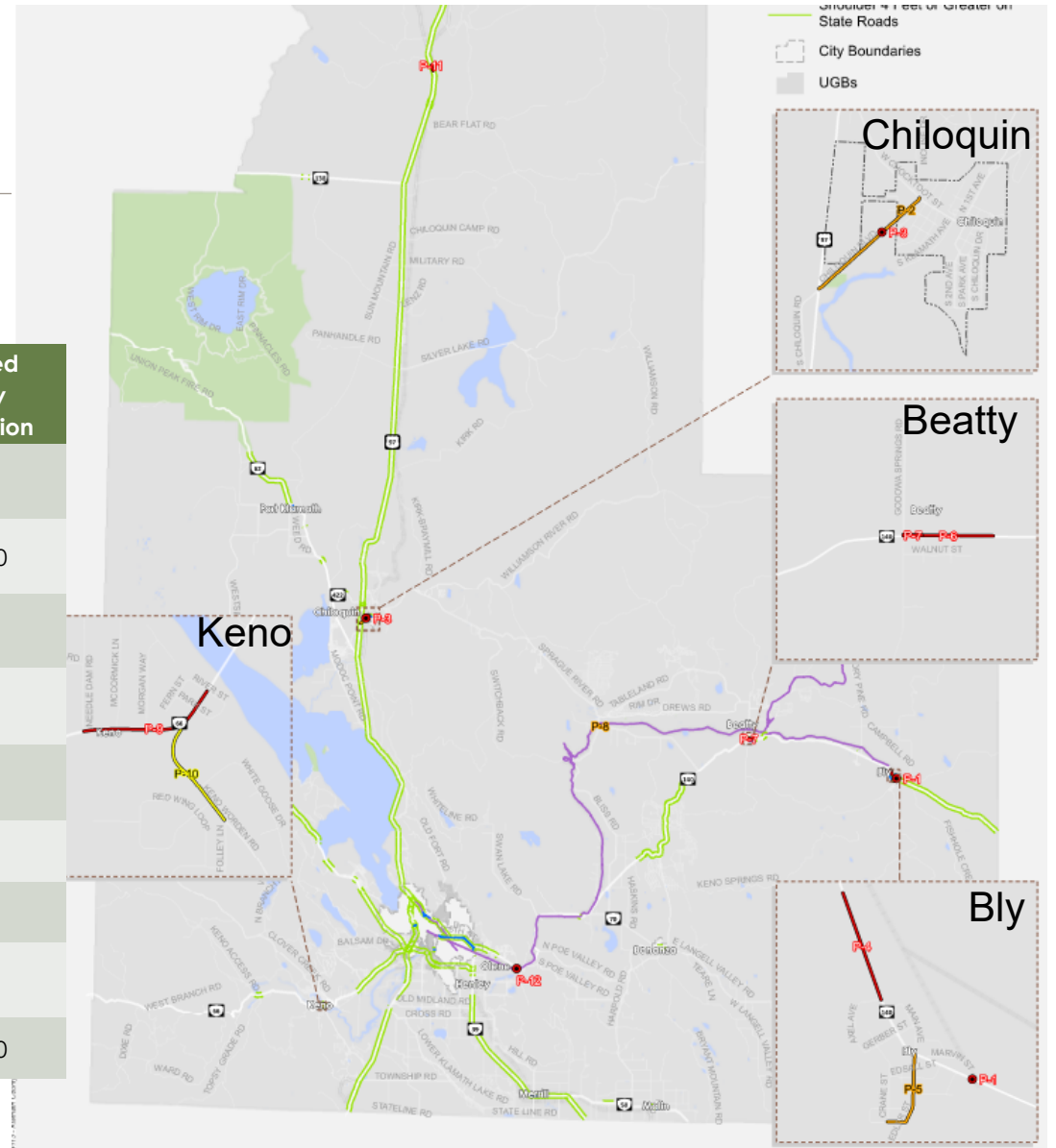


TM #4 Fig. 07

PEDESTRIAN

High Priority Solutions

Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
P-1	Enhanced crossing on OR140 at OC&E Trail - Bly	\$80,000	\$0
P-3	Install mid-block crossing on Chiloquin Hwy	\$710,000	\$71,000
P-4	Resurface shared-use path on OR140 in Bly	\$330,000	\$0
P-6	Construct sidewalk on northside of OR140 in Beatty	\$200,000	\$0
P-7	Construct sidewalk on southside of OR140 in Beatty	\$40,000	\$0
P-9	Construct sidewalk on OR66 in Keno	\$460,000	\$0
P-11	Construct sidewalk on US97 in Chemult	\$610,000	\$0
P-12	Enhanced crossing on OR140 at OC&E Trail - Dairy	\$80,000	\$0
P-13	ADA ramp installation program	\$200,000	\$20,000



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the pedestrian solutions?

- a) *Yes, I support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
- e) *Unsure at this time*



PEDESTRIAN SOLUTION – DISCUSSION

- **Feedback**

- *Did we address the pedestrian/walking needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*

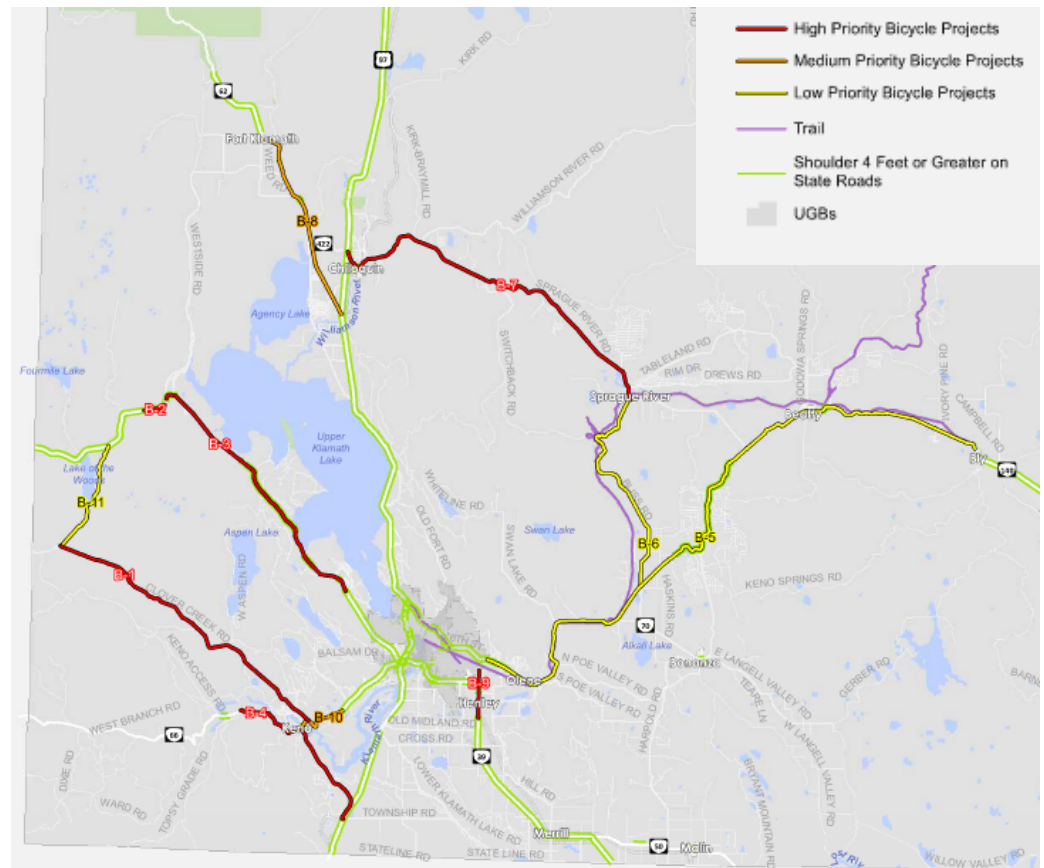


BICYCLE SOLUTIONS

- **Key Needs:**

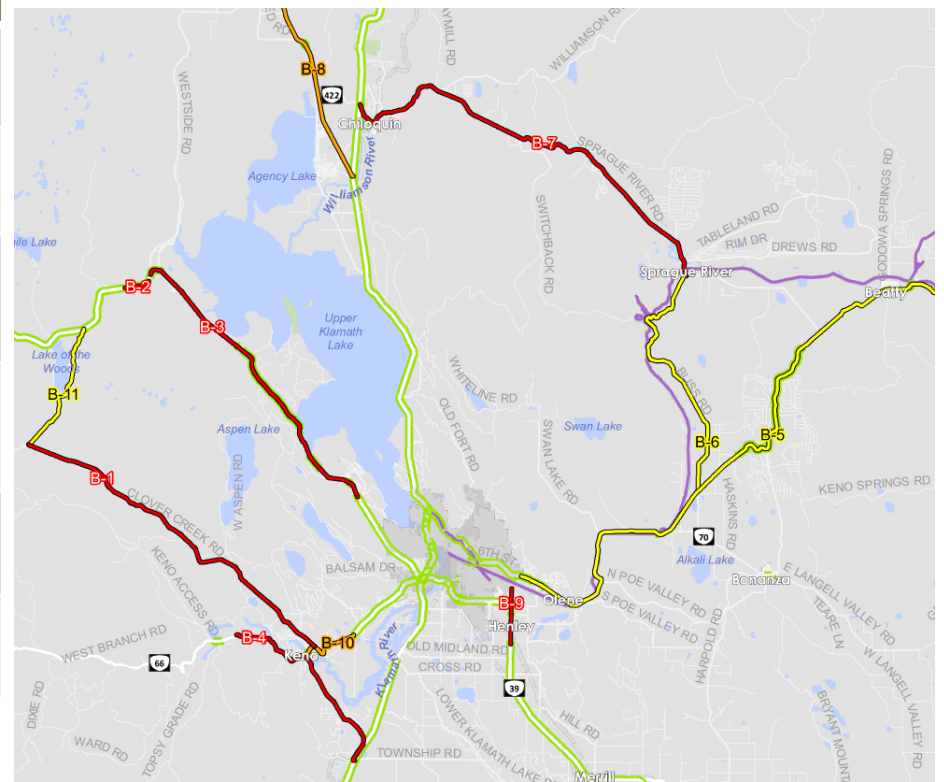
- *Lack of adequate shoulders*
- *Disconnected bicycle network*

TM #4 Fig. 08



BICYCLE SOLUTIONS

Proj ID	Project Name	Planning Level Cost Estimate	Expected County Contribution
B-1	Widen Shoulders on Clover Creek Road	\$21,470,000	\$21,470,000
B-2	Widen Shoulders on OR140 west of Westside Road	\$1,770,000	\$0
B-3	Widen Shoulders on OR140 east of Westside Road	\$9,840,000	\$0
B-4	Widen Shoulders on OR66 and Keno Worden Road	\$12,990,000	\$0
B-7	Widen Shoulders on Sprague River Road	\$26,570,000	\$26,570,000
B-9	Widen Shoulders on OR39	\$3,350,000	\$0



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the bicycle solutions?

- a) *Yes, I support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
- e) *Unsure at this time*



BICYCLE SOLUTION – DISCUSSION

- **Feedback**

- *Did we address the bicycle needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



TRANSIT SOLUTIONS

- **Projects to address needs:**
 - Currently, there are no connected public transportation services between La Pine and Klamath Falls.
 - Connections between existing routes and services are not sufficiently coordinated.
 - Rural, unincorporated communities generally lack access to Dial-A-Ride services.

Project ID	Project Name	Priority
T-1	Upgrade transit fleet vehicles	Medium
T-2	Expansion of existing services to rural communities	High
T-3	Program to create Periodic meetings amongst transit providers	High
T-4	Study to Develop/expand transit service in North Klamath County	High
T-5	Increasing Dial-A-Ride	Medium
T-6	Development of public transportation education resources	Medium



POLL QUESTION

Reminder: Provide detailed feedback on specific solutions through Virtual Open House maps or by email

Do you support the projects and priorities in the transit solutions?

- a) *Yes, I support the solutions as presented*
- b) *Yes, I support the solutions but think the priorities need to be adjusted*
- c) *No, I think you are missing key projects*
- d) *No, I do not agree with some of the solutions shown*
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TRANSIT SOLUTION – DISCUSSION

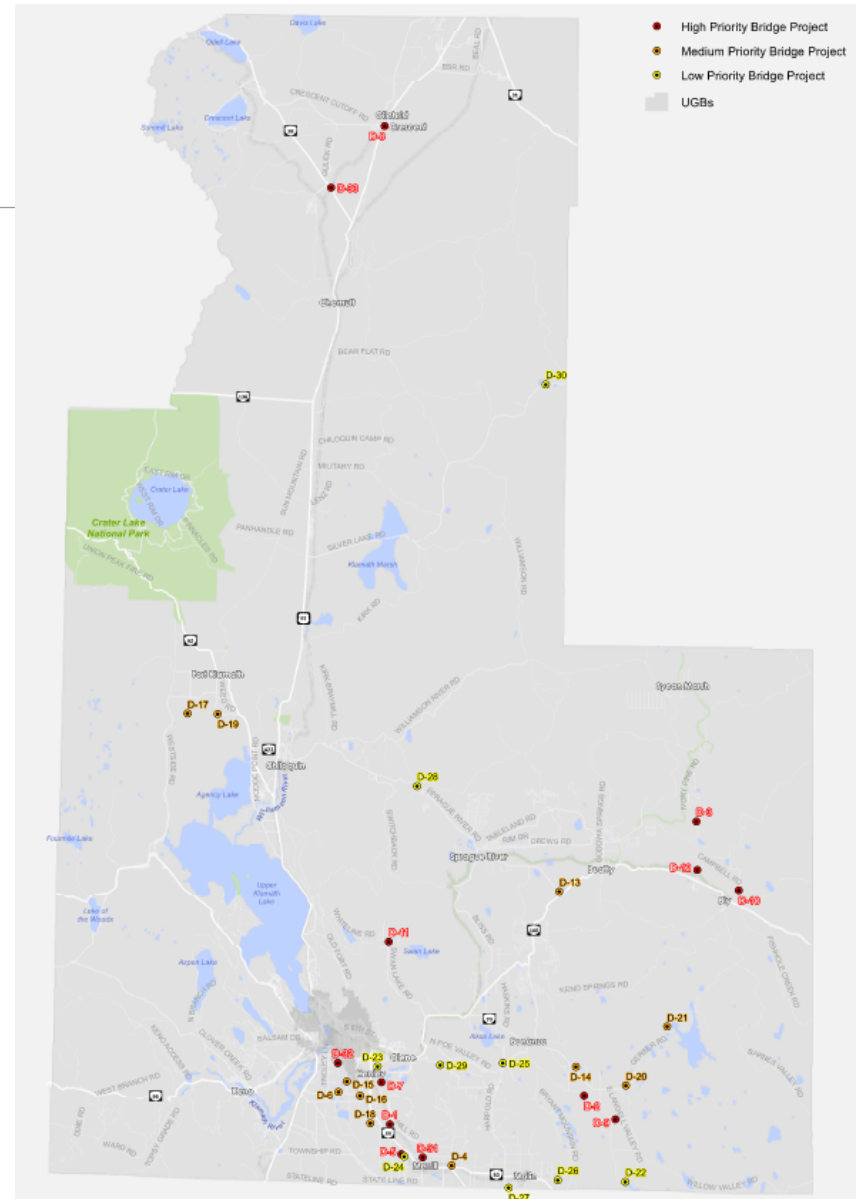
- **Feedback**

- *Did we address the transit/public transportation needs?*
- *Did we miss any projects?*
- *Should any projects be removed?*
- *Do you agree/disagree with the prioritization?*



BRIDGE SOLUTIONS

- **Projects identified from:**
 - Bridge ratings with a sufficiency rating below 70
 - The County's 10-year Bridge Rehabilitation and Replacement Project List
 - Bridges prioritized based on County "Project Tier"



OTHER TRANSPORTATION SOLUTIONS

- ***Other transportation systems include:***
 - *Rail*
 - *Air*
 - *Water/Marine*
 - *Pipeline*
- ***No needs or projects were identified for the other elements***



SUMMARY OF TSP PROJECT COSTS

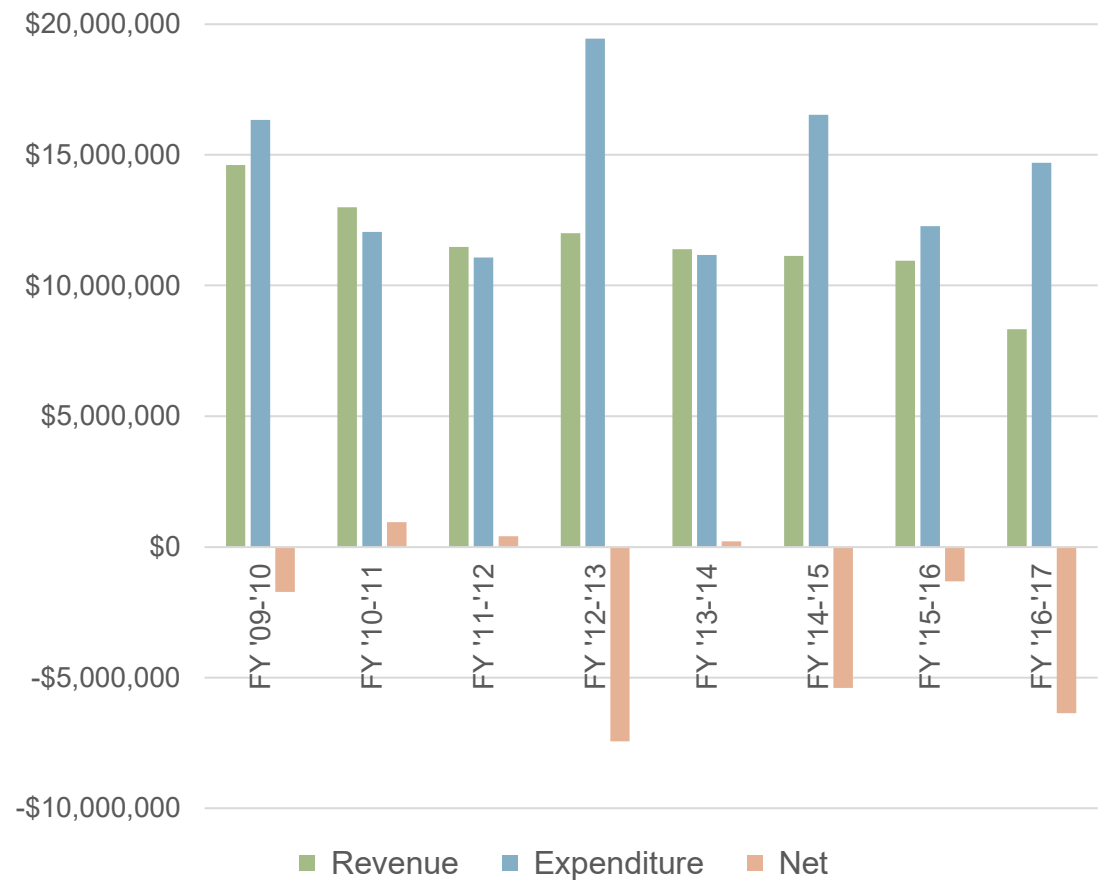
Cost Summaries by Priority and Project Type				
Project Type	High Priority	Medium Priority	Low Priority	Total
Roadway	\$25,000	\$0	\$26,100,000	\$26,125,000
ITS	\$98,000	\$28,000	\$5,000	\$131,000
Safety	\$1,397,000	\$363,000	\$7,020,000	\$8,780,000
Pedestrian	\$91,000	\$652,000	\$370,000	\$1,113,000
Bicycle	\$48,040,000	\$0	\$25,190,000	\$73,230,000
Transit	\$0	\$0	\$0	\$0
Bridge	\$4,495,000	\$6,340,000	\$5,140,000	\$15,970,000
Total	\$54,141,000	\$7,383,000	\$63,825,000	\$125,349,000
Estimated Urban TSP Cost	\$10,905,000	\$16,981,000	\$18,973,000	\$46,859,000
Grand Total	\$65,046,000	\$24,364,000	\$82,798,000	\$172,208,000

**Costs based on county contribution see TM4 for total cost*

The County would need \$172 million to fund all projects currently identified over the next 20 years

HISTORIC EXPENDITURES

- *Majority of spending has been for maintenance and operations*
- *Approx. \$800k/year spent on capital projects*
- *Average annual deficit of \$2.8 million*
- ***County needs approx. \$4M/year more for capital projects over the next 20-years to fund high priority projects only***



POTENTIAL FUNDING SOURCES

- *List located in TM 4 Table 16*
- **Identify and apply for federal/state grants**
 - Often requires a local match
- **Local Taxes and User Fees**
 - County fuel tax
 - SDC fees
 - Local bond measures



REGULATORY REVIEW OVERVIEW

- *Check for compliance with the Transportation Planning Rule (TPR)*
- *County is generally in compliance with TPR*
- *Ensure other documents are changed to be consistent with revised standards/policies/programs from this project*



MEETING AGENDA

- **Virtual Meeting Etiquette (Reminder)**
- **Project Overview**
 - Purpose and Need
 - Schedule
 - Next Steps
- **Solutions Analysis and Funding Program (Tech Memo #4)**
- **Virtual Open House**
- **Next Steps**



VIRTUAL OPEN HOUSE

- ***Live Virtual Public Event***

- *TODAY! 6:00-7:00pm*
- *GoToMeeting*
- *Project Overview*
- *Q&A Session*
- *Meeting will be recorded and posted*

<http://klamathcountytsp.com/>



VIRTUAL OPEN HOUSE

- **Online Open House**
 - Open August 20th – September 3rd
 - Interactive maps and commenting opportunities

KLAMATH COUNTY TSP - VIRTUAL OPEN HOUSE VIRTUAL WORKSHOP

WELCOME	ABOUT THE PROJECT	GOALS AND OBJECTIVES	ROADWAY PLAN	PEDESTRIAN PLAN	SAFETY PLAN	BICYCLE PLAN
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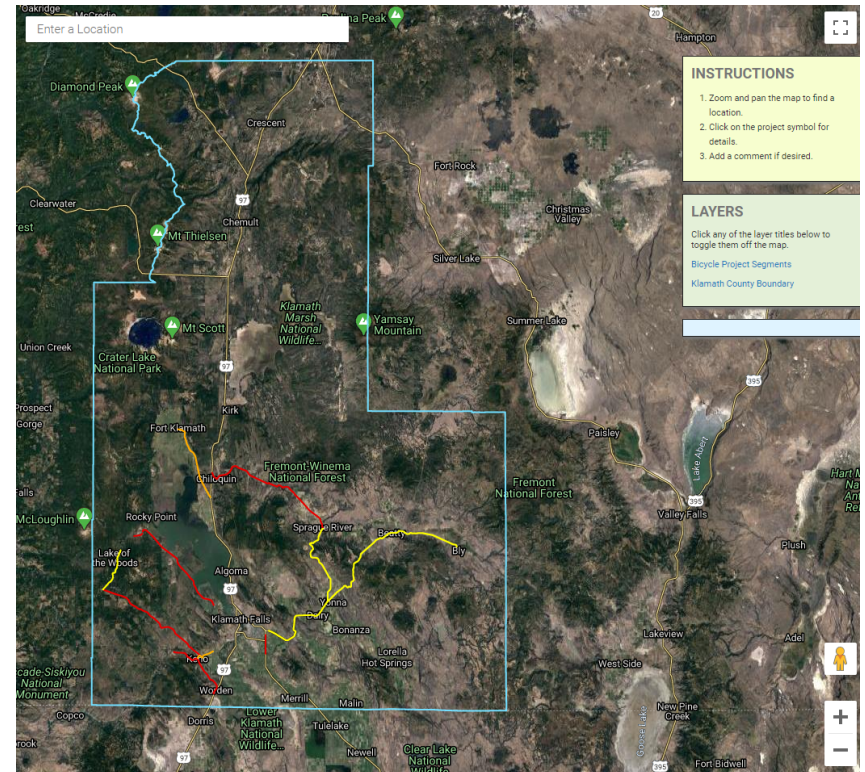
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NEXT STEPS

- **Virtual public event TONIGHT!**
 - 6pm, details on the website
 - Invite others to attend!
- **Provide Input on Tech Memo #4**
 - Please provide comments by **Thursday, September 3rd**
- **Tech Memo #5 will be distributed by email in late October/early November**
 - No PAC meeting will be held
 - Please plan to review and provide written comments
- **PAC Meeting #4: December 2020/January 2021**
 - Draft Plan will be reviewed

