

CLACKAMAS COUNTY BOARD OF COUNTY COMMISSIONERS

Policy Session Worksheet

Presentation Date: April 1, 2025

Approx. Start Time: 2:30 p.m.

Approx. Length: 30 mins

Presentation Title: Walk Bike Clackamas Plan Presentation

Department: Transportation and Development (DTD)

Presenters: Dan Johnson – Director, Karen Buehrig – Long Range Planning Manager

WHAT ACTION ARE YOU REQUESTING FROM THE BOARD?

Informational update only on the Walk Bike Clackamas (WBC) Plan.

EXECUTIVE SUMMARY:

Oregon Administrative Rule (OAR) 660-012 outlines the requirements for Transportation Planning and includes specific requirements for Pedestrian System Planning and Bicycle System Planning. In 1996, Clackamas County adopted a Pedestrian Master Plan and a Bikeway Master Plan which are included Appendix A of the Clackamas County Comprehensive Plan. In addition, Chapter 5 of the Comprehensive Plan, the Transportation System Plan includes specific policies addressing Active Transportation in the County.

The *WBC Plan* is the first full update to the County's Pedestrian Master Plan and Bicycle Master Plan since they were first adopted in 1996. The *WBC Plan* is an outcome of a two and a half year long planning project which created the county's first combined, consolidated bicycle and pedestrian plan. The project goal is to provide a comprehensive, long-term vision for improving walking and biking opportunities in Clackamas County for both transportation and recreation. The *WBC Plan* provides guidance on capital investment priorities and policy to create a balanced, connected and safe transportation system.

The WBC Plan complements other completed planning efforts including the upcoming North Clackamas Parks and Recreation District (NCPRD) Trails Plan. Other recent plans have focused on targeted geographic areas: the *Villages at Mt. Hood Pedestrian and Bikeway Plan* focused on priority active transportation infrastructure improvements in the Mt. Hood area; the *Active Transportation Plan* provided guidance on regional active routes and principal connections between communities; and the *Clackamas Regional Center Pedestrian and Bicycle Connection Plan* was a project that prioritized last mile connections from the MAX Green Line terminus. The WBC project builds on these efforts to identify bicycle and pedestrian needs for county-maintained roads in both urban and rural areas.

DEVELOPMENT OF WBC PLAN

The WBC Plan began in the summer of 2022 and extended through 2024. The project was funded by a Transportation and Growth Management grant from ODOT. The project team included an advisory committee, Project Management Team led by county staff, and a team of consultants.

Stakeholder engagement was a critical aspect of the planning process. The 18 Walk Bike Advisory Committee (WBAC) members represented a wide range of community values and interests including community and professional representatives with a balance of geographic and special interests, gender, age and ability. WBAC guided the plan by advising the county at key milestones and providing input on project deliverables at four meetings. Each meeting immediately preceded a public outreach event or survey.

PRIMARY ELEMENTS OF THE PLAN

WBC provides a comprehensive, long-term vision for pedestrian and bicycle transportation investments in both the urban and rural areas of Clackamas County. Primary elements of the WBC Plan include:

- **Goals, Objectives, Supportive Actions and Performance Measures:** To guide future decisionmaking, WBC includes key goals, objectives, and supportive actions. In addition, Performance measures are included to evaluate progress toward implementation.
- **Priority Projects:** WBC includes 236 key projects: 96.7 miles of new sidewalk; 322.3 miles of new bikeways and 106.8 of new multi-use trails. Projects are organized within five planning areas. Within each area there are three tiers of priorities: Tier 1 is the highest priority projects; Tier 2 is medium priority and Tier 3 is low priority. The plan also includes key spot improvement projects such as crosswalks and bicycle signals. See WBC pp. 60-81 for project maps and tables.
- **Shared Streets:** Shared Streets are potentially high-use streets for people walking and bicycling in Clackamas County with speeds reduced to 20 mph to enhance public health and safety. Reducing motor vehicle speeds is one of the best ways to increase safety. Shared Streets would apply only to local streets that provide important connections within and between neighborhoods, shopping areas, and parks, among other destinations. They would be part of the pedestrian and bicycle network along with bike lanes, sidewalks, and trails.
- **Supportive Programs:** While infrastructure improvements are important to make walking and biking safer, supportive programs help build awareness surrounding safety and the rights and responsibilities of everyone using the transportation system. The County already has some programming (Safe Routes to School, for example) that support walking and bicycling, but several new programs could help address community desires and complement other investments. The seven potential WBC programs are categorized into event, campaign, and mode shift groupings. The seven programs included in the draft plan are: Open Streets, School Zone Safety, Bicycle Friendly Driver, No Parking in Bike Lane, Micromobility, Bicycle and Pedestrian County, and Street Painting Program.

NEXT STEPS

The next step for adoption of the WBC Clackamas Plan is for the Planning Commission to hold a Public Hearing that is scheduled for April 14th 2025. A Public Hearing before the Board of County Commissioners is scheduled for Tuesday, May 13th. At these hearings, the WBC Plan will be requested to be amended into Appendix A of the Comprehensive Plan and proposed amendments to the policies in Chapter 5 will be brought forward.

The specific identified priority projects will be integrated into the overall 20-year Transportation System Plan during the next update which is expected to begin in May of 2025.

FINANCIAL IMPLICATIONS (current year and ongoing):

Is this item in your current budget? YES NO

What is the cost? \$ 230,000 What is the funding source? Transportation Growth Management (TGM) Grant from Oregon Department of Transportation

STRATEGIC PLAN ALIGNMENT:

- How does this item align with your Department's Strategic Business Plan goals?

The project aligns with the Long-Range Planning Program's purpose of providing land use and transportation plan development, analysis, coordination, and public engagement services to residents; businesses; local, regional, and state partners; and County decision-makers so they can plan and invest based on a coordinated set of goals and policies that guide future development.

- How does this item align with the County's Performance Clackamas goals?

The *Walk Bike Clackamas Plan* aligns with the Performance Clackamas goal that by 2026, 100% of County residents and businesses – where served – have access to safe and affordable infrastructure: multimodal transportation including roads, sewer and broadband services.

LEGAL/POLICY REQUIREMENTS:

The Transportation Planning Rule (TPR) implements statewide planning Goal 12: Transportation and requires cities and counties to develop and update pedestrian and bicycle modal plans. The TPR provides direction on how to plan for bicycles and pedestrians and what these plans must include. In addition, Oregon Revised Statue (ORS) 366.514 requires the county to include bicycle and pedestrian facilities in transportation construction projects.

PUBLIC/GOVERNMENTAL PARTICIPATION:

Public outreach was a centerpiece of the *Walk Bike Clackamas Plan* project. Four engagement milestones were timed to inform critical project steps such as goal development and project prioritization. Public outreach consisted of traditional and virtual open house events; neighborhood association meetings, social media blasts; a project webpage; 3 public surveys; a virtual interactive map exercise and “drop-in events”, among other activities.

The public has been provided notice as required by law for the proposed amendments to the Comprehensive Plan. The public will have the opportunity to comment on the proposed amendments at public hearings scheduled in April and May before the Planning Commission and the Board.

OPTIONS:

N/A – Informational update only.

RECOMMENDATION:

No recommendation, informational update only.

ATTACHMENTS:

Attachment A: PowerPoint Presentation
Attachment B: Draft Walk Bike Plan

SUBMITTED BY:

Division Director/Head Approval _____

Department Director/Head Approval  _____

County Administrator Approval _____

Walk Bike Clackamas Plan

**BCC Policy Session
April 1, 2025**



Presentation

- 1 Background
- 2 WBC Plan Development
- 3 Goals
- 4 Priority Projects
- 5 Shared Streets
- 6 Supportive Programs
- 7 Next Steps



Photo credit: Clackamas County

Walk Bike Clackamas: Background



- Sets a **vision** for walking and biking in County
- The **Transportation Planning Rule** requires pedestrian and bicycle elements of plans
- **Original plans approved in 1996.** Projects have been built, new set of priorities are needed
- Identifies **future system needs** to meet vision
 - Capital Projects
 - Supportive Programs
- Integrates **new mobility options** – bikeshare, e-bikes, cargo bikes, etc
- Built on **Community Engagement**

WBAC: Walk Bike Advisory Committee

- 18 Members total:
Combination of
community members
and technical/agency
experts
- 4 meetings
- Stipend for Community
Members

do you think
impactful?

Safe Routes to Parks

School zone safety- school trips can often be done actively



What programs would you like
improved?

Safe routes to parks, schools, transit



Which programs should/should not be prioritized?

Priority: Signage, or education to help bicyclists/drivers understand others' experience

Amazon driver training example

Priority: Manage bike/e-bike/walking traffic on multiuse paths

Don't prioritize Micromobility - maybe a big ask for unincorporated Clackamas

Priority: Combine difficult crossings with education campaigns about where to walk/cross



Frame 10

What other programs should the County be exploring?

Write your idea

Bike shares for school. Bike valet model similar to Go by bike

Traffic Playgrounds

Free transit passes (for high school students, large employers, multifamily housing)

Safe routes to jobs/transit

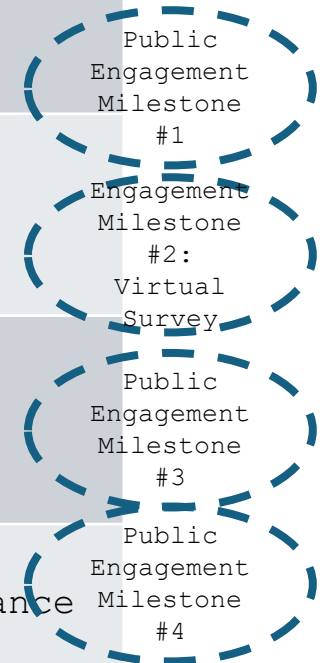
More buses/schedules for MHX (workforce transportation/bike transport)

TDM, micromobility



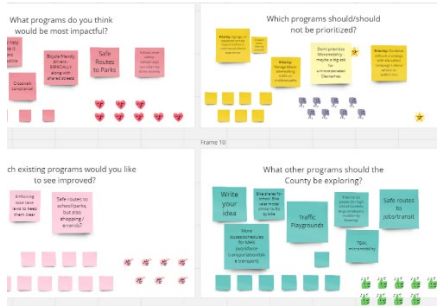
WBAC & Public Engagement Milestones

WBAC Meeting	Share	Related Deliverables
#1	Project Kickoff and Existing Conditions and Needs	<ul style="list-style-type: none"> TM #2: County Baseline Health Conditions TM #3: Current Plans TM #4: Existing Conditions Analysis
#2	Goals and Performance Measures	<ul style="list-style-type: none"> TM #5: Goals, Objectives, Policies and Performance Measures TM #6: Supportive Programs TM #7: Slow Streets Network
#3	Review Gaps and Network Priorities	<ul style="list-style-type: none"> TM #8: Gaps and Deficiencies Analysis TM #9: Project Prioritization Methodology TM #10: Project Identification TM #11: Project Recommendations
#4	Review Draft Walk Bike Clackamas Plan and Next Steps	<ul style="list-style-type: none"> TM #12: Draft Zoning Ordinance and Comp Plan Compliance Preliminary Draft Walk Bike Clackamas Plan



Development of the WBC Plan

Project Advisory Committee



ClackCo Newsletter



Early Engagement County Fair Dot Game

Project fact sheet

PROGRESS FOR PUBLIC INPUT	WALK-BIKE PLAN	WALK-BIKE PLAN	WALK-BIKE PLAN
Setting the stage: Review conditions, goals, and objectives	Developing strategies: Review assessment and recommended projects	Meeting to implement: Draft and final plan with regulatory amendments	
Public Engagement: 10/18	Public Engagement: 10/18	Public Engagement: 10/18	Public Engagement: 10/18



Interested Parties List



Project website

Milestone #1	Milestone #2	Milestone #3	Milestone #4
Late Fall 2022	February 2023	August 2023	2024
Community Conversations	Virtual interactive map and survey	Open House event and survey	Public input on draft report and virtual Open House
110 participants	~200 survey respondents	416 participants	660 survey respondents

What Did We Hear?

- People **avoid** walking and biking due to lack of infrastructure and proximity to high speed/volume vehicle traffic.
- Rural areas **lack** infrastructure
- Expressed **safety** concerns in most areas of county.
- **Speeding** is a concern in both urban and rural areas.
- Need more **sidewalks, protected bike lanes, and improved crossings**
- **Multi-use trails** scored high and received strong public support
- Support for **Shared Streets** if implemented thoughtfully
- **Collaboration between County, ODOT and Cities** will be critical for building a connected network
- Infrastructure changes should be supported by **programs**.
- Programs will need adequate **funding** for marketing and enforcement.

“Parents don’t let their children walk or ride to school because it is so dangerous with speeding vehicles and no safe pathway.”

“The current network is very fragmented. Nice bike lanes are often separated by narrow road shoulders or no shoulder at all.”

WBC Goals



GOAL 1 - SAFETY

Improve safety of people walking and bicycling through safe street design and supportive programs.



GOAL 2 – ACCESSIBILITY

Ensure walkways and bikeways are accessible for people of all ages, abilities and incomes.



GOAL 3 – CONNECTIVITY

Develop and maintain walking and biking routes that provide convenient and clear connections to important community destinations in Clackamas County.



GOAL 4 – SUSTAINABILITY

Expand and promote active travel options that optimize benefits to the environment, the economy, and community benefits.



GOAL 5 – EQUITY

Focus investments to ensure safe transportation alternatives regardless of age, race, income, gender and ability.

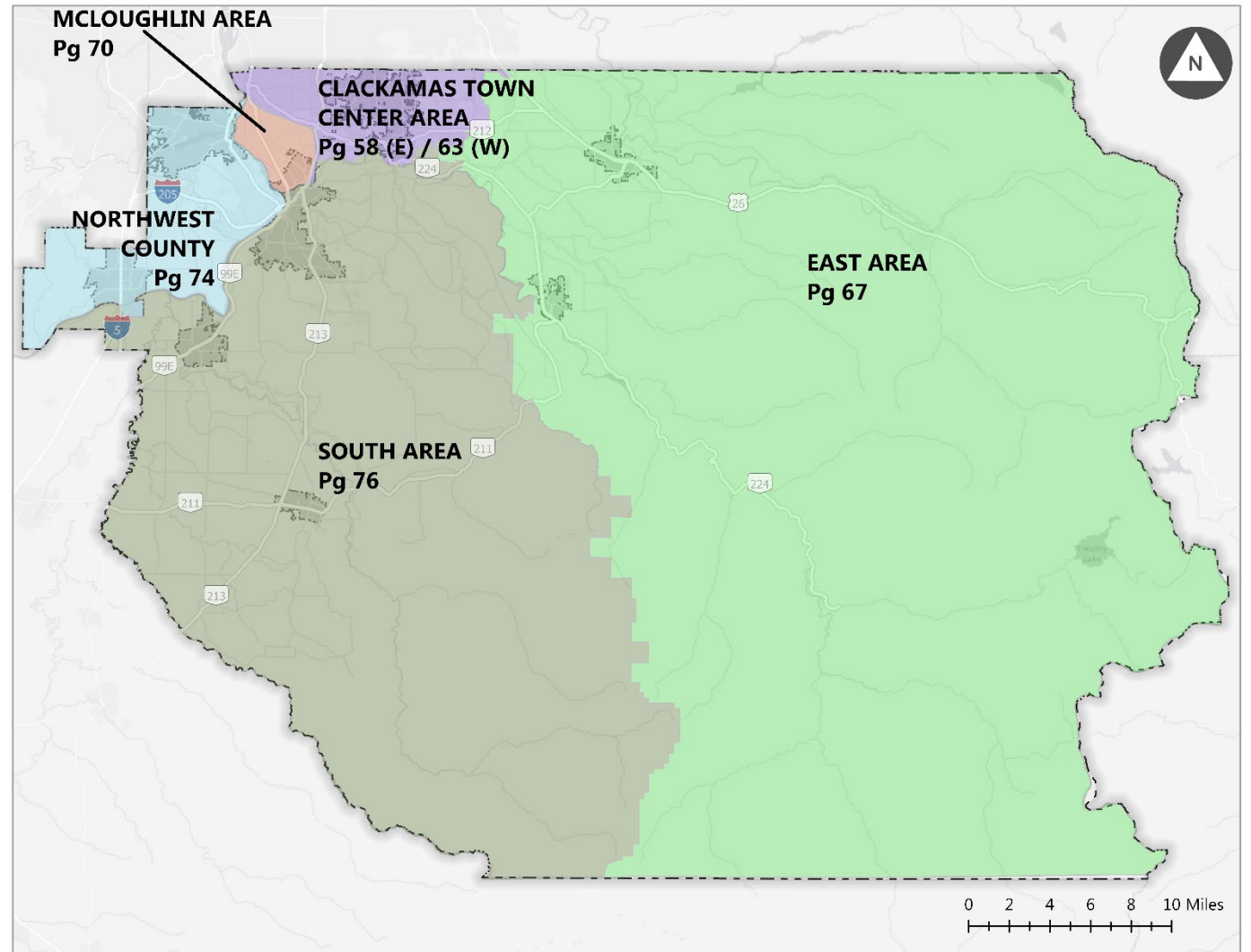


GOAL 6 – HEALTH

Plan and provide infrastructure that allows people to safely walk, run or cycle for improved health.

WBC Planning Areas

- Reflect different needs and opportunities throughout the county
- Based on previous Transportation System Plan geographic areas
- Follows geographic boundaries (e.g., rivers and topographies)



Identified Priority Projects

Existing Projects from Past Plans

- Transportation System Plan (~300 projects)
- Safe Routes to Schools (>100 projects from 10 action plans)
- Active Transportation Plan
- Reviewed Essential Pedestrian Network

Public Feedback

- Over 280 comments from online “wiki mapping” survey.
- Advisory Committee Feedback
- “Community Conversations” Feedback

New Analyses

- Bicycle Level of Traffic Stress
- Pedestrian Crossing Stress
- Replica Data
- Connectivity to Mapped Destinations
- Crash Analysis – Mapped High Injury Corridors

Initial Prioritization using Criteria

Safety	Accessibility	Connectivity	Equity	Health
<ul style="list-style-type: none"> • Within ½ mile of serious injury or crash location involving people walking or biking • Includes crossing improvements • From a Safe Routes to School Plan • Addresses concern expressed through public comment 	<ul style="list-style-type: none"> • Improves walkways and is within ½ mile of one or more destinations • Improves bikeways and is within 1 mile of one or more destinations • Within ½ mile of existing bus stop • Within 1 mile of existing MAX lite rail stop • Within the Clackamas Regional Center area or within a Rural Community • Addresses concern expressed through public comment 	<ul style="list-style-type: none"> • Completely fills a missing bikeway segment along a road that scored as highly stressful • Expands miles of bikeways along a road that scored as highly stressful • Overlaps the Essential Pedestrian Network • Completely or partially fills a missing sidewalk gap on: <ul style="list-style-type: none"> • One, both, or either sides of an arterial or collector • Addresses concern expressed through public comment 	<ul style="list-style-type: none"> • 50% or more of the project is located in census block group(s) with “above average” or “well above average” equity index score 	<ul style="list-style-type: none"> • Within a ½ mile radius of: <ul style="list-style-type: none"> • A park • A hospital or medical clinic • A long-term care facility • A pharmacy • A grocery store • A public elementary or middle school, or a daycare • Addresses concern expressed through public comment

Lists Projects by Planning Area and Priority

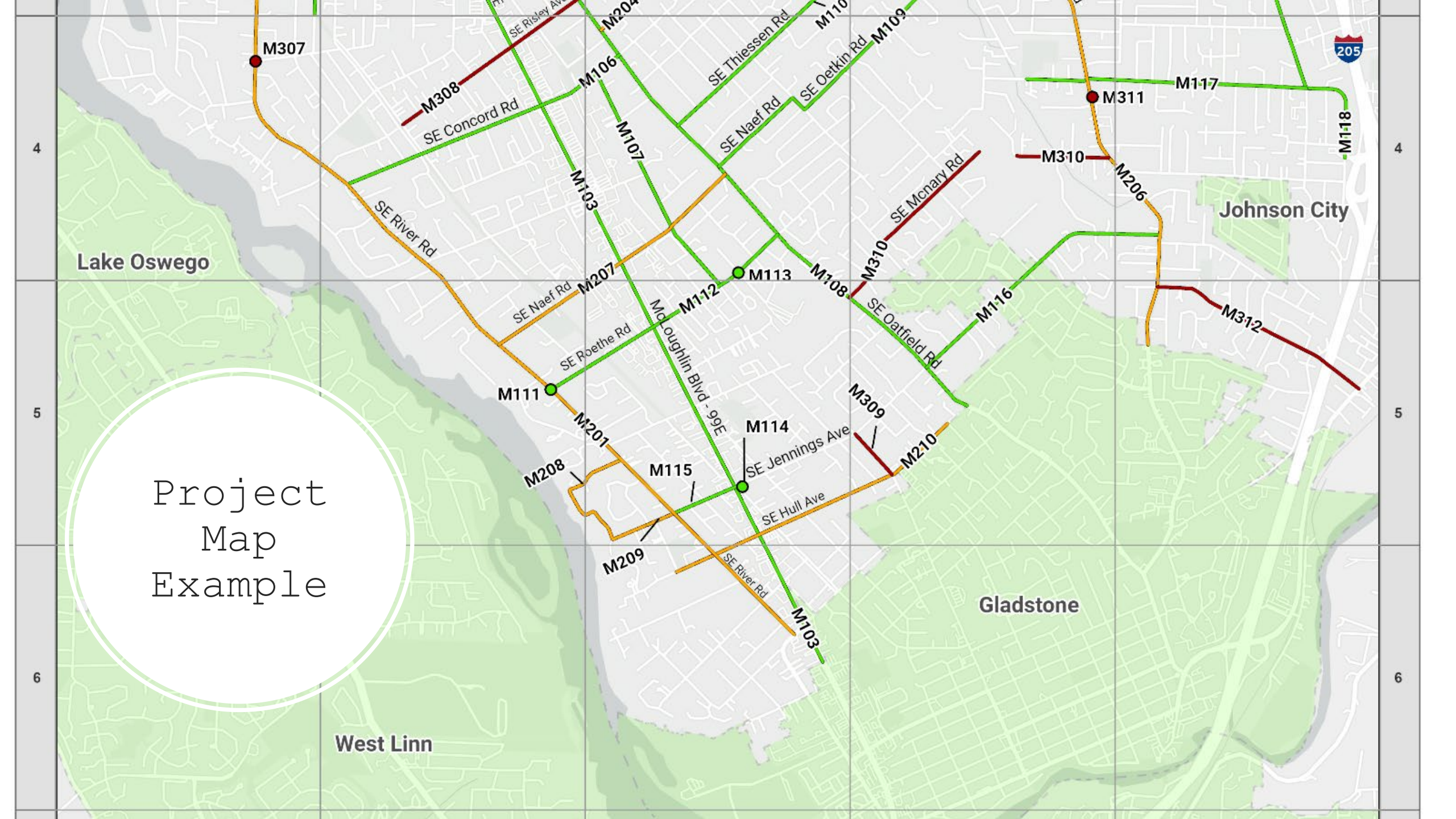


Point Projects

Linear Projects

Area	Total Projects	Sidewalk Mileage	Bikeway Mileage	Trail Mileage
Clackamas Town Center	103	33.5	56.1	38.7
East County	30	2.2	69.1	24.2
McLoughlin	40	34.3	29.7	-
Northwest County	19	6.9	25.5	9.0
South County	44	19.8	141.9	34.9
Total	236	96.7	322.3	106.8

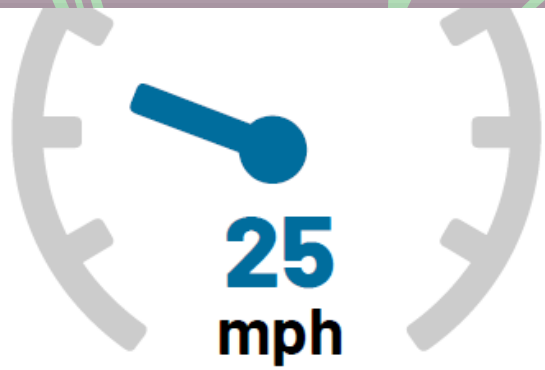
Project
Map
Example



Shared Streets

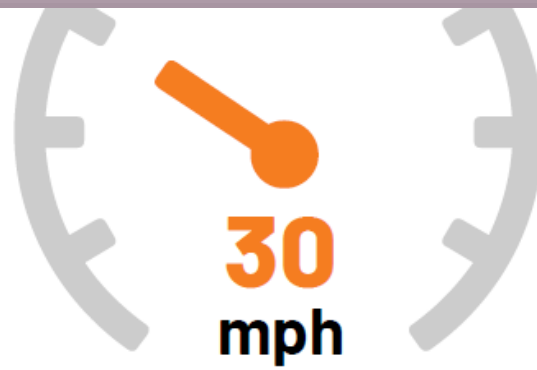
- Streets where people biking, walking, rolling, and recreating share space with low-speed motor vehicle traffic
- Provide connections to neighborhood destinations
- Address gaps in bicycle and sidewalk network





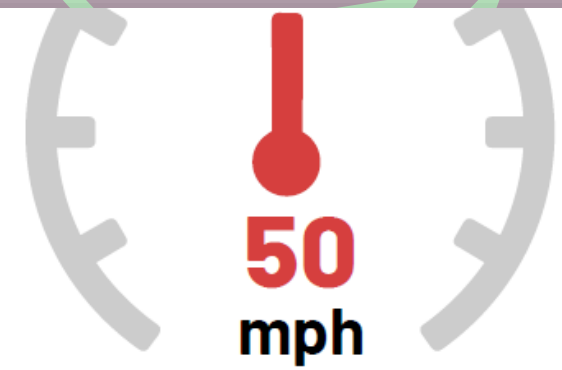
25%

chance of
pedestrian fatality
or severe injury



50%

chance of
pedestrian fatality
or severe injury



90%

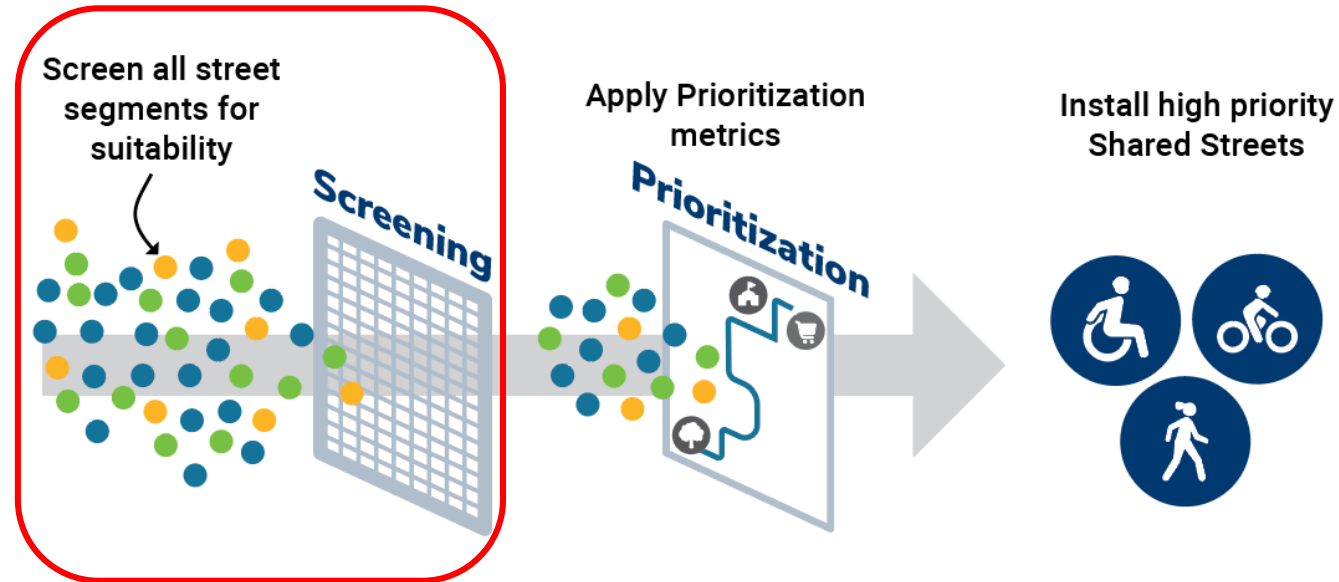
chance of
pedestrian fatality
or severe injury

Source: Tefft, Brian, 'Impact speed and a pedestrian's risk of severe injury or death'

Shared Streets Process

3 STEP SCREENING

- Screening criteria:
 - Posted speed of 25 mph
 - Classified as “local” street
 - No transit service along the street
 - Average traffic volumes < 2,000 vehicles per day
 - Collision history and possibility of installing mitigation
 - Provides connections between destinations



Shared Streets Treatments

25 mph -->
20 mph speed
limit signs



Signage
along
Shared
Streets route

Pavement
markings



Signage at
entry points



...and other traffic
calming elements as
needed.

Existing & New Supportive Programs

Events

Open Street Events

Safety Street at County Fair

High School Traffic Safety
Classes

Campaigns

School Zone Safety

No Parking in the Bike Lane

Bicycle-Friendly Driver

Crosswalk Safety Campaign

Safe Routes to School

Tourism Campaign/
Ambassador Rides

“Slow Down” Signs

Mode Shift

Bike and Pedestrian Count
Program

Micromobility Program

Transportation Demand
Management

Next Steps – Adoption Process

Public Hearings at the Planning Commission and the BCC

1. Adopt *Walk Bike Plan* document by reference in Appendix A of the Comprehensive Plan.
2. Adopt *Walk Bike Plan* appendices 1-12 in Appendix B of the Comprehensive Plan.
3. Update Active Transportation policies in Chapter 5: Transportation System Plan.



Walk Bike Clackamas Plan

April 2024

Questions?





Walk Bike Clackamas Plan

January 2025



Acknowledgements

Project Management Team

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Mark Bentz, Gladstone

Allina Cannady, Clackamas County

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THUY TU CONSULTING

Thuy Tu

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The contents of this document do not necessarily reflect views or policies of the State of Oregon.





Land Acknowledgements

What we now call Clackamas County is the traditional lands and waterways of the Clackamas, Chinook Bands, Kalapuya, Kathlamet, Molalla, Multnomah, Tualatin, Tumwater, Wasco and many other tribes of the Willamette Valley and Western Oregon.

We honor the Native American people of Clackamas County as a vibrant, foundational, and integral part of our community here today. We respectfully acknowledge Wy'east, also known as Mount Hood, and Hyas Tyee Tumwater, also known as Willamette Falls, as sacred sites for many Native Americans.

We thank those who have connection to this land and serve as stewards, working to ensure our ecosystem stays balanced and healthy.

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Executive Summary

Plan Process

Walk Bike Clackamas (WBC) is Clackamas County's first combined pedestrian and bicycle plan. WBC recommends future projects and programs to meet the county's transportation needs and updates goals and objectives to guide decision-making for active transportation investments in unincorporated Clackamas County.

WBC began in summer 2022 and extended through 2024. The project team included an 18-member Project Advisory Committee, a Project Management Team led by county staff, and a consultant team from Nelson\Nygaard, Toole Design, and Thuy Tu Consulting.

Walk Bike Clackamas Goals

The six WBC goals shown below guided plan development. They are the basis for establishing the objectives, policies and performance measures of this plan.



Safety

through safe street design and supportive programs



Sustainability

expand and promote travel options that benefit - the environment, economy, and community



Accessibility

to ensure people of all ages, abilities, and incomes can walk, bike, and roll



Equity

ensure safe alternatives to driving are available to everyone regardless of age, race, income, gender, and ability



Connectivity

provide convenient and clear links with schools, parks, shopping, and other important community destinations



Health

plan and provide infrastructure that allows people to safely walk, run, or bicycle, ensuring better health outcomes for all

Plan Topic Areas

- **Health Equity Framework and Existing Conditions:** Key population, demographic trends, existing transportation system, adopted transportation plans, policies, health and equity indicators impacted by transportation infrastructure.
- **Summary of Public Engagement Themes:** Walk Bike Advisory Committee (WBAC) meetings, along with virtual and in-person public events demonstrate the critical need for WBC implementation.
- **Goals, objectives, and performance measures:** Key goals and objectives to guide future decision-making and performance measures to track the plan implementation.
- **Supportive programs:** Recommendations to encourage people in Clackamas County to walk, roll, or bike more, and help understand available transportation options.
- **Project identification and prioritization process:** WBC identifies over 400 projects to fill gaps and deficiencies in the County’s networks, but prioritization process narrows the number to 236 projects to meet the County’s goals.
- **Priority Projects:** The prioritization process identifies key linear and spot improvement projects that are critical to each planning area.
- **Shared Streets:** Potential high-use streets for people walking and bicycling in Clackamas County with speeds reduced to 20 mph to enhance public health, equity, and safety, particularly on streets connecting neighborhoods, shopping areas, and parks.
- **Facility Design Toolkit:** Provides a framework for County staff to design and construct walking and biking improvements.
- **Funding strategies:** To implement active transportation projects, WBC describes creative funding solutions stemming from County/local, regional and state, and federal opportunities.

Engagement Process

Stakeholder engagement was a critical aspect of the planning process. A combined resident and technical Walk Bike Advisory Committee (WBAC) guided project development and provided diverse perspectives. The WBAC met four times, with each meeting immediately preceding a public outreach event or survey.



Project Priorities

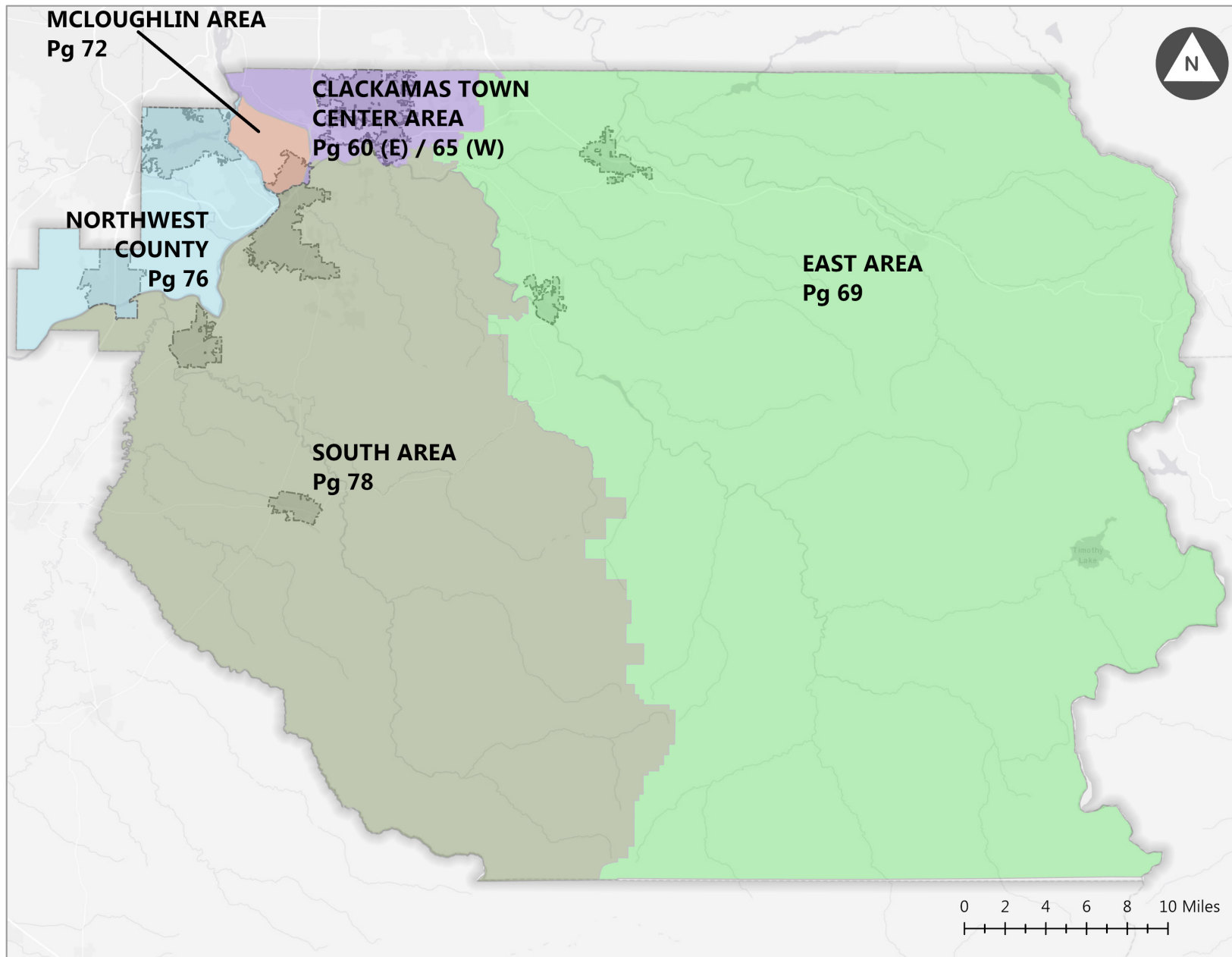
Public and WBAC input on prioritization criteria resulted in a goal-based scheme for ranking potential projects. Each identified goal had its own set of criteria. The projects are divided into three priority tiers, with Tier 1 being highest priority.

Overall, the Walk Bike Clackamas plan identifies over 500 miles of sidewalks, bikeways, and trails for development in unincorporated Clackamas County. To allow for a more nuanced analysis of conditions and investments in different parts of the county, WBC considers five "subareas" that follow development patterns as well as natural features such as waterways and topography. The planning subareas are seen in the following map.

The breakdown of this mileage by planning subareas is seen in the table below.

Area	Total Projects	Sidewalk Mileage*	Bikeway Mileage	Trail Mileage
Clackamas Town Center	103	33.5	56.1	38.7
East County	30	2.2	69.1	24.2
McLoughlin	40	34.3	29.7	-
Northwest County	19	6.9	25.5	9.0
South County	44	19.8	141.9	34.9
Total	236	96.7	322.3	106.8

* Includes other types of pedestrian facilities such as shared path adjacent to roadway



Top Priority Projects Within Right-of-Way

Based on scoring during prioritization process; community surveys and advisory committee input.

Project ID	Name	Description
CE102	SE 82nd Dr pedestrian facilities and bikeways	Fill gaps in pedestrian facilities and bikeways
CW117	SW Lake Rd pedestrian facilities and bikeways	Fill gaps in pedestrian facilities and bikeways
E108	SE Eagle Creek Rd paved shoulders	Add paved shoulders
E111	E Barlow Trail Rd / E Lolo Pass Rd paved shoulders	Add paved shoulders
M106	SE Concord Rd pedestrian facilities and bikeways	Fill gaps in pedestrian facilities and bikeways
M114	OR 99E (McLoughlin Blvd) / SE Jennings Ave bike crossing	Construct bike signal at SE Jennings / OR 99E / Trolley Trail intersection
N104	SW Childs Rd pedestrian facilities and bikeways	Fill gaps in pedestrian facilities and bikeways
N106	SW Borland Rd pedestrian facilities and bikeways	Add pedestrian facilities and bikeways
S106	S Leland Rd paved shoulders	Add paved shoulders
S108	S Henrici Rd paved shoulders	Add paved shoulders

Top Priority Trail Projects (Outside of Right-of-Way)

Based on scoring during prioritization process; community surveys and advisory committee input.

Project ID	Name	Description
N107	Tonquin Trail	Construct bike / pedestrian facilities pursuant to the Tonquin Trail Master Plan
M104	Trolley Trail - Arista Drive segment	Pilot for advisory bike lane, or shared street/greenway
CE107	Scouters Mountain / Mt Scott Loop Trail	Construct multi-use path in accordance with the Active Transportation Plan
S204	Molalla Forest Rd	Pave to provide bicycle access in accordance with the Active Transportation Plan
E103	Cazadero Trail	Construct Multi-use path

Program Priorities

WBC also identifies supportive programs to complement capital infrastructure investments. Potential WBC programs are categorized into three groups: events, campaigns, and mode shift.

Events	Open Streets	Events that close a portion of a road to cars to allow people to walk, bike, skateboard, scoot, and have fun with friends, family, and neighbors
	School Zone Safety	Promote safe driving behaviors for parents and other adults, and safe walking and bicycling access to schools for students
Campaigns	Bicycle-Friendly Drivers	Build driver awareness of how to safely drive on roads with bike lane and other facilities, and rights and responsibilities of people bicycling and driving
	No Parking in Bike Lane	Target illegal car/truck parking in bike lanes to ensure lanes remain open and usable to people bicycling
Mode Shift	Micromobility	Offer shared services -- such as short-term bike, electric bike, or electric scooter rentals -- to give people travel options for short trips
	Bicycle and Pedestrian Counts	Gather data about the number of people walking and biking at key locations to learn what's working and what needs to be done
	Street Painting Program	Develop street painting program to allow for neighborhood groups to install street murals to foster lower speeds and solidify shared streets





1. Introduction

1.1 Plan Purpose

Walk Bike Clackamas (WBC) is Clackamas County's first combined pedestrian and bicycle plan. It recommends future projects and programs to meet the county's transportation needs and updates policy priorities to guide decision-making for active transportation investments.

Why now?

Since the Bicycle Master Plan and Pedestrian Master Plan were last updated in 2003, the county's transportation system has drastically changed. WBC accounts for the changing physical, demographic, and technological landscape, and responds to the State of Oregon requirement to develop balanced transportation systems. Regular updates are needed to be eligible for funding opportunities. Moreover, Clackamas County has:

1

AMBITIOUS CLIMATE GOALS

The Board of County Commissioners has set a goal for the county to be [carbon neutral by 2050](#), which means balancing greenhouse gas emissions to capture as much as is emitted. Safe and convenient options to reduce reliance on single-occupancy vehicle trips can help meet climate goals.

2

NEW MOBILITY OPTIONS

Planning for active transportation opportunities such as bike share, e-bikes, protected bike lanes, e-scooters, and other advancements were not included in past plans.

3

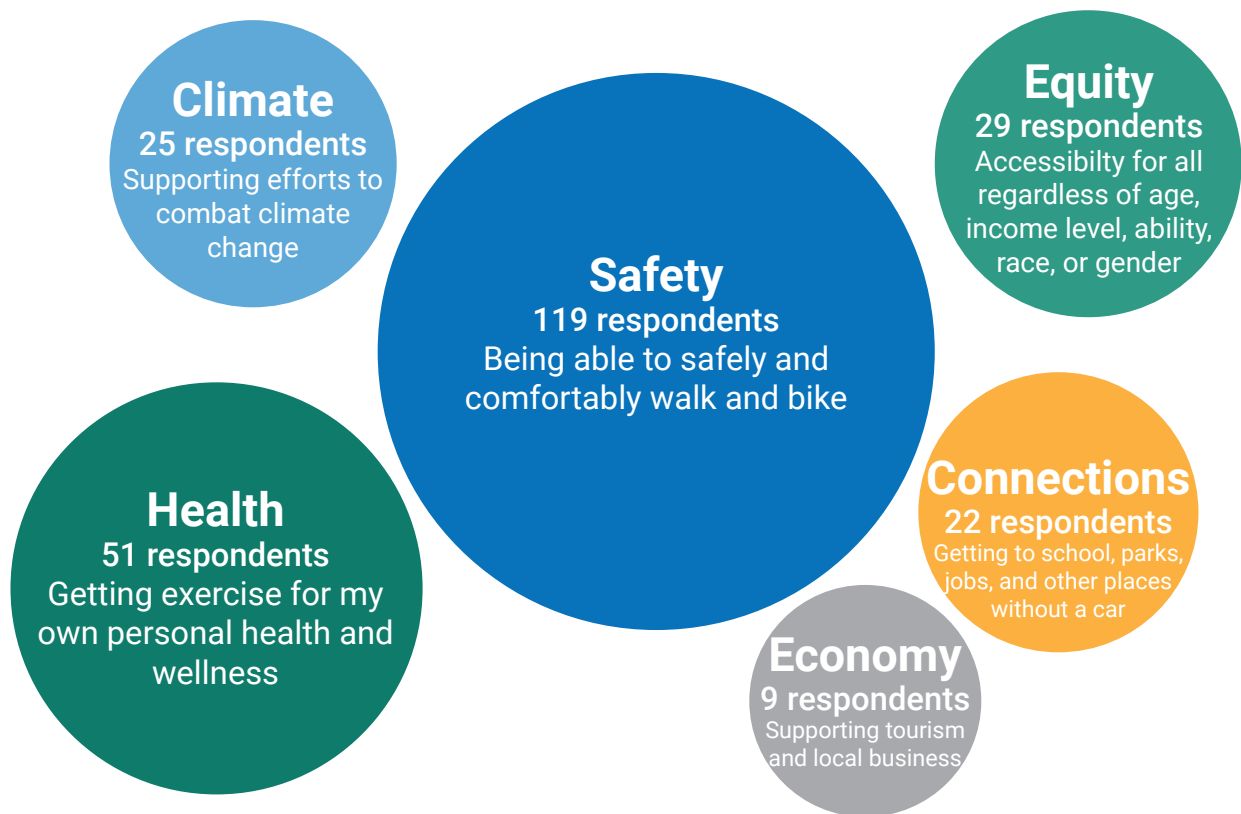
NEW POLICY DIRECTION

The county has prioritized transportation options that consider health outcomes and equity, with a Performance Clackamas goal that 100% of residents have access to safe and affordable multimodal infrastructure. County Planning and Public Health staff jointly crafted the approach to WBC to ensure this is reflected in the planning process and outcomes.

Guiding Principles

To initiate the Walk Bike Clackamas project and develop a framework to guide the planning work, the project team asked community members at the 2021 Clackamas County Fair what was most important to them in terms of walking and biking. As shown in Figure 1, the top three responses were safety, health and equity. These priorities helped shape the plan vision and served as guiding principles during the two-year planning process.

Figure 1 Public Priorities

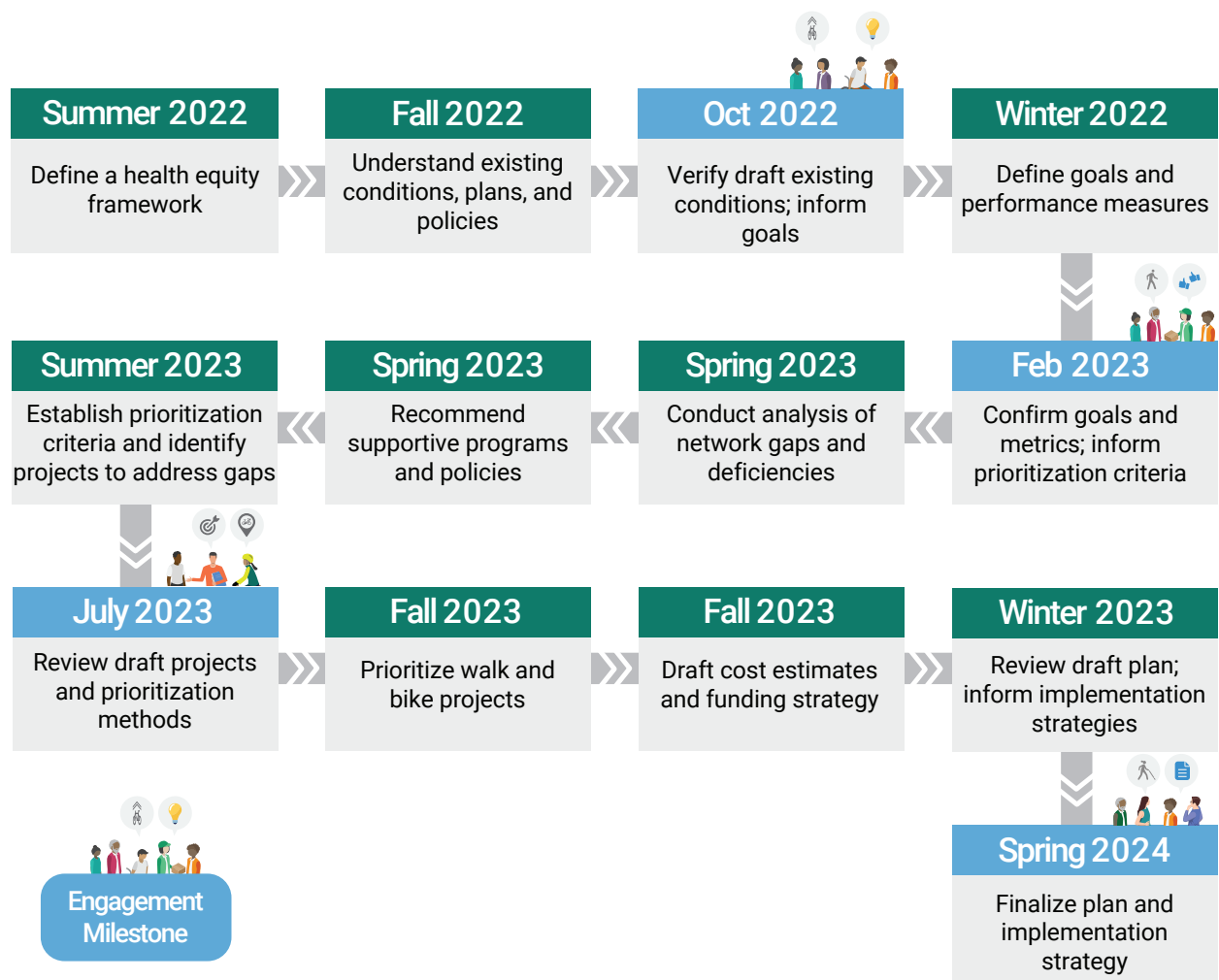


1.2 Plan Development

WBC began in summer 2022 and extended through 2024.

The project team included an advisory committee, Project Management Team led by county staff, and a consultant team from Nelson\Nygaard, Toole Design, and Thuy Tu Consulting. Stakeholder engagement was a critical aspect of the planning process. The Walk Bike Advisory Committee (WBAC) met four times to guide project direction. Each meeting immediately preceded a public outreach event or survey.

Project Process:

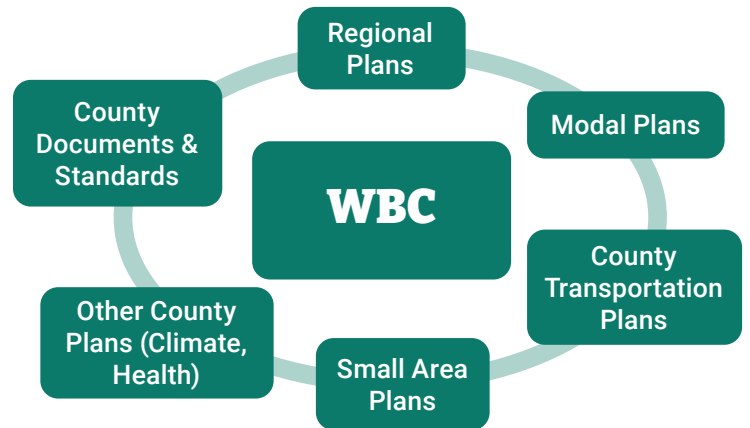


1.3 Building off Other Plans







WBC builds on previous County and regional planning efforts. Plans and policies relevant to the creation of WBC were reviewed to identify key themes moving forward, which helped lay the project foundation. Relevant plans are summarized in detail in **Appendix E: Technical Memorandum 3: Plan Review**.

Plans that helped shape and inform WBC include:

- Regional Plans: Metro Regional Transportation Plan
- Modal Plans: Clackamas County Transit Development Plan
- County Transportation Plans: Clackamas County Transportation System Plan
- Area Plans: Safe Routes to School Action Plans
- Other County Plans: Climate Action Plan and Active Transportation Plan
- County Documents & Standards: Roadway Standards



The plan review identified opportunities to better align with current best practices:

	Opportunity	Detail
	Strive for Safe Systems approach in all transportation plans and projects to eliminate traffic fatalities and injuries
	Better integrate equity...	... into engagement, technical analysis, design and implementation guidance
	Include clear design guidance...	... that is evidence-based and increases safety for the most vulnerable road users
	Document County program priorities...	...to clarify the County's goals and roles in supporting capital investments
	Identify new funding sources...	...to leverage new federal, state, and regional funding available for active transportation projects
	Describe actions for implementation...	...that specify the role of the County and jurisdictional partners in implementing active transportation projects



2. Existing Conditions

An initial assessment of active transportation conditions countywide identified locations where potential projects could make the biggest impact in meeting transportation needs. The existing conditions analysis also included an assessment of community health and the creation of a Transportation Equity Index.

2.1 Active Transportation: Health and Equity

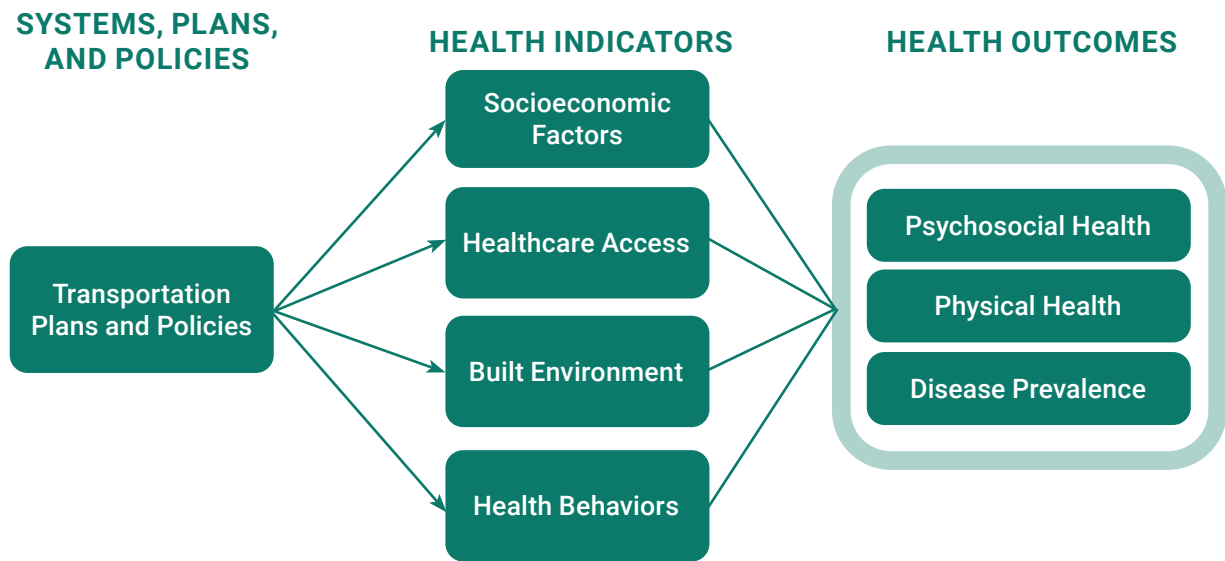
Safe opportunities for physical activity can have a positive impact on an individual's physical and mental health. Presence of safe and complete infrastructure, like sidewalks, bike lanes and safe crossings, help to reduce barriers to walking and biking and create access to goods, services, jobs, and transit for people who depend on alternative transportation modes. Studies show that people who live near (within 1/2 mile or 15 minutes walking) safe, high-quality biking and walking infrastructure tend to get more exercise than people who don't, particularly among participants without a car.*

Applying Health

The health and active transportation connection can also be illustrated in the Health Pathway Diagram (Figure 2). Someone's health is dependent, in large part, on a number of social determinants, or conditions in the physical, social, and economic environment, such as education, economic, housing, and transportation opportunities.

*American Journal of Public Health, "New Walking and Cycling Routes and Increased Physical Activity", 2014, <https://ajph.aphapublications.org/doi/full/10.2105/AJPH.2014.302059>

Figure 2 Health Pathway Diagram



Transportation Plans and Policies

Transportation plans and policies are considered the upstream components of the health pathway. They determine how transportation investments are made and can help shape how community members reach important destinations such as schools, work, and health services. For example, more investments in multimodal transportation systems may give people the opportunity to choose different travel options, including walking, biking or using transit.

Health Indicators

Indicators that impact personal health include socioeconomic factors (education, race, place of birth, employment, income), healthcare access (can those without a vehicle access the care they need?) and quality of built environment (sidewalks, bike paths, safe crossings, lighting and parks for recreation). Personal behaviors such as participating in physical activity such as walking or biking are also a factor. If people perceive pedestrian or biking infrastructure as unsafe, they will not use it.

Health outcomes

Health outcomes are the psychosocial and physical conditions resulting from the various health indicators and transportation plans and policies. They include conditions such as diabetes, obesity and cardiovascular disease. To better understand Clackamas County community health and how health considerations could be incorporated into the planning process for Walk Bike Clackamas, the team conducted a Baseline Health

Conditions analysis. The analysis included both local and federal data sources.

Significant findings and trends from the analysis include:

- Eighty-five percent of adults are in “good” health, and 25% met Center for Disease Control (CDC) guidelines for physical activity.* However, chronic disease rates are on the rise, including psychosocial health and chronic conditions like asthma, cancer, cardiovascular disease, and obesity.
- People with chronic conditions are largely concentrated near urban areas or within city limits.
- Rates for psychosocial health outcomes such as mental distress and poor mental health days are increasing.
- The percentage of adults engaging in physical activity in the county is decreasing.
- People in the county have lower rates of walking and biking to work than compared to the state of Oregon.
- Encouraging walking and biking through infrastructure and built environment improvements helps the population reach their daily physical activity requirements, and ultimately improves health outcomes.

To inform the WBC process and help guide where active transportation investments could be allocated to improve community health, criteria that focused on health-related considerations were used in the project prioritization process. In addition, specific health considerations were included in WBC performance measures, which will be used to track plan progress related to various targets and health outcomes.

See **Appendix D: Technical Memorandum 2: Baseline Health Conditions** for a more detailed description of the health indicators and outcomes and how Clackamas County compares to the state of Oregon as a whole.

*CDC Behavioral Risk Factors Surveillance System (BRFSS), 2016-2019 age-adjusted percent.

Equity and Communities of Interest

While data demonstrates that a safe, connected active transportation network benefits community health, we also know that transportation investments have not been made equally in the past. Communities of Interest* tend to live in places that lack robust safe walking and biking infrastructure and therefore often face greater barriers to walking and biking and tend to experience worse health outcomes compared to county averages. In response to these disparities, WBC developed a Transportation Equity Index to help us understand where Communities of Interest are living across Clackamas County and assist project prioritization.**

The Transportation Equity Index uses the following inputs to identify Communities of Interest:

- Black people, Indigenous people, and People of Color (BIPOC)
- Immigrants
- People with limited English proficiency
- Low-income and low-wealth community members
- Low- and moderate-income renters and homeowners
- People with disabilities
- Youth and seniors

Census block groups with a **Transportation Equity Index score** above the county average across are called **Equity Focus Areas**.***

Applying Equity

To ensure safe walking and biking options are available for everyone regardless of age, ability, race, income, gender and background, equity was incorporated into the Walk Bike Clackamas plan as follows:

1 Valuing Community Expertise

Clackamas County recognizes the lived experiences and time of our Walk Bike Advisory Committee members are valuable. The project team worked with the Oregon Department of Transportation to ensure WBAC members were offered stipends to compensate them for their contributions.

*Communities of Interest: Black people, Indigenous people, and People of Color (BIPOC); immigrants; people with limited English proficiency; low-income and low-wealth community members; low- and moderate-income renters and homeowners; people with disabilities; youth and seniors. For more detail, see the Walk Bike Clackamas Title VI and Equity Assessment Memo.

** Technical Memorandum 1: Health Equity Framework describes how health factors are influenced by systems, environments, and individual factors.

*** For more information on the Equity Index Methodology, see Technical Memorandum #4: Existing Conditions Analysis.

2 Meeting People Where They Are and When They Can Attend

Community Conversations and Public Engagement Events were located at events and destinations where residents already gathered to reach people where they are. The website, on-line survey, and digital campaigns provided the opportunity for people to weigh in whenever they had availability.

3 Leading with a Health Equity Framework

Health and equity are foundational elements of this planning process. The project team consulted the County's Health, Housing, and Human Services Department on available data to assess baseline health conditions and crafted a Health Equity Framework to understand this project's potential and responsibility to advance equity and improve health outcomes.

4 Integration with Plan Goals

This ensures that equity is embedded into plan objectives and performance measures and establishes equity as a key criterion for project prioritization and ongoing decision-making.

5 Prioritizing Projects in Places with the Greatest Need

The transportation equity index measure identified the distribution of race, ethnicity, linguistic isolation, low income, limited transportation resources, older adults, youth, and disability. By including a quantitative measure reflecting the concentration of these groups, locations with higher concentrations scored higher during project prioritization. Figure 3 illustrates the areas with the highest scores on the equity index in red.

6 Supportive Programs for Walking and Biking

Programs that support the choice to walk and bike can have positive impacts on expanding transportation options for Communities of Interest based on

What is Equity?

Equity: Providing varying levels of support – based on specific needs – to achieve greater fairness of treatment and outcomes.

Definition derived from language in the State of Oregon Equity Framework

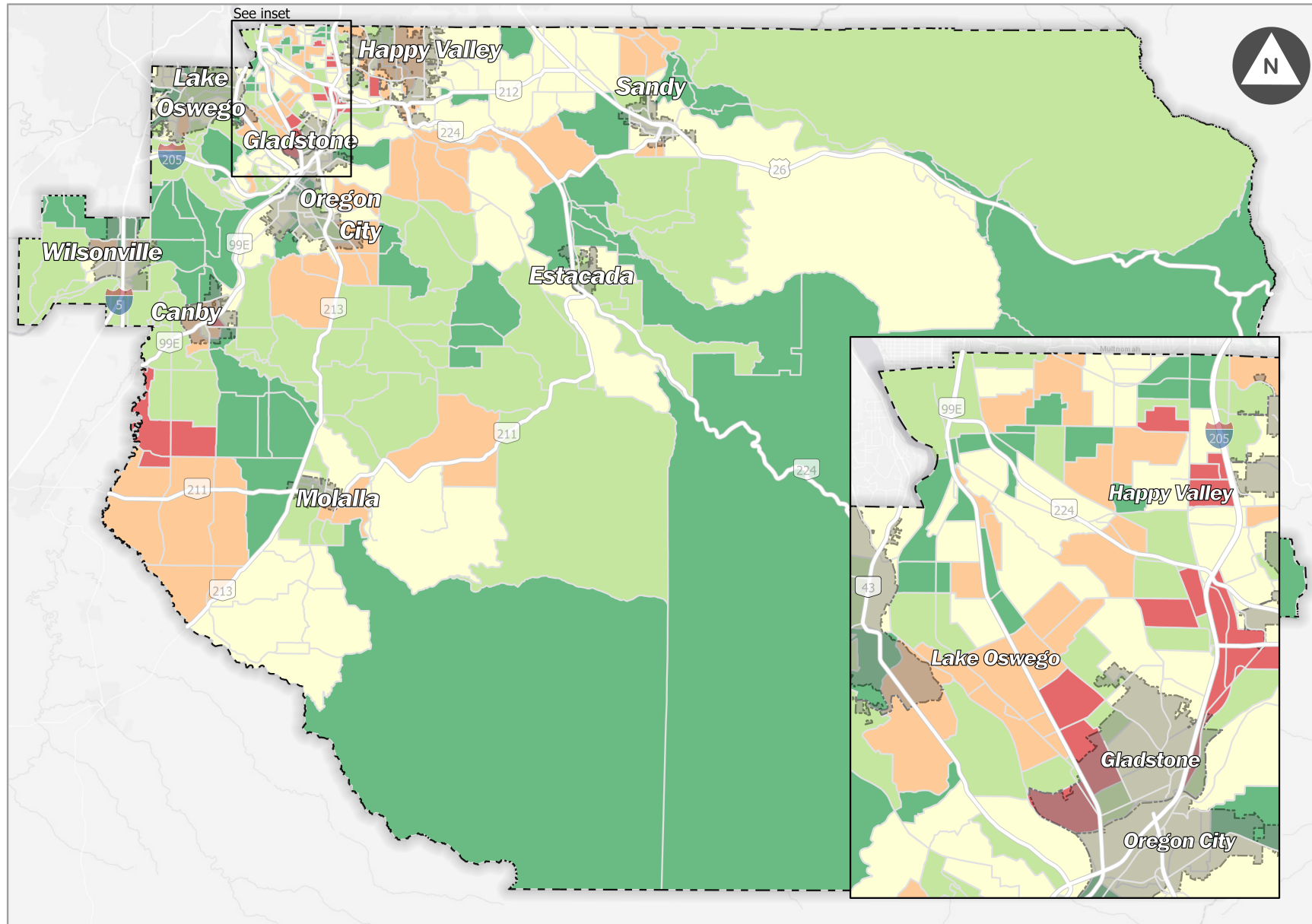
how programs are implemented and where programs are focused. Program delivery can build community partnerships and provide extra support, such as translations and language interpretations.

7 **Securing and Directing Funding**








Certain funding sources, such as Safe Streets and Roads for All (SS4A), Reconnecting Communities and Neighborhoods, are dedicated to improving transportation access within Communities of Interest. Securing this funding not only increases the transportation options of these communities, but the broader population as well.



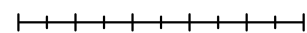
Figure 3 Transportation Equity Index Map



Composite Score Bin

 Well below county average	 County average	 County Boundary
 Below county average	 Above county average	 City Boundary
	 Well above county average	

0 2 4 6 8 10 Miles



2.2 Planning Subareas

Given the county's vast geography, five plan subareas were developed at the start of the project. Figure 4 illustrates the five planning subareas, which allow for a more nuanced analysis of conditions and investments in different parts of the county. These areas follow development patterns, as well as natural features such as the Willamette and Clackamas rivers and the general topography. This section describes existing conditions related to population and demographic trends within each subarea.

Figure 4 Clackamas County Planning Subareas

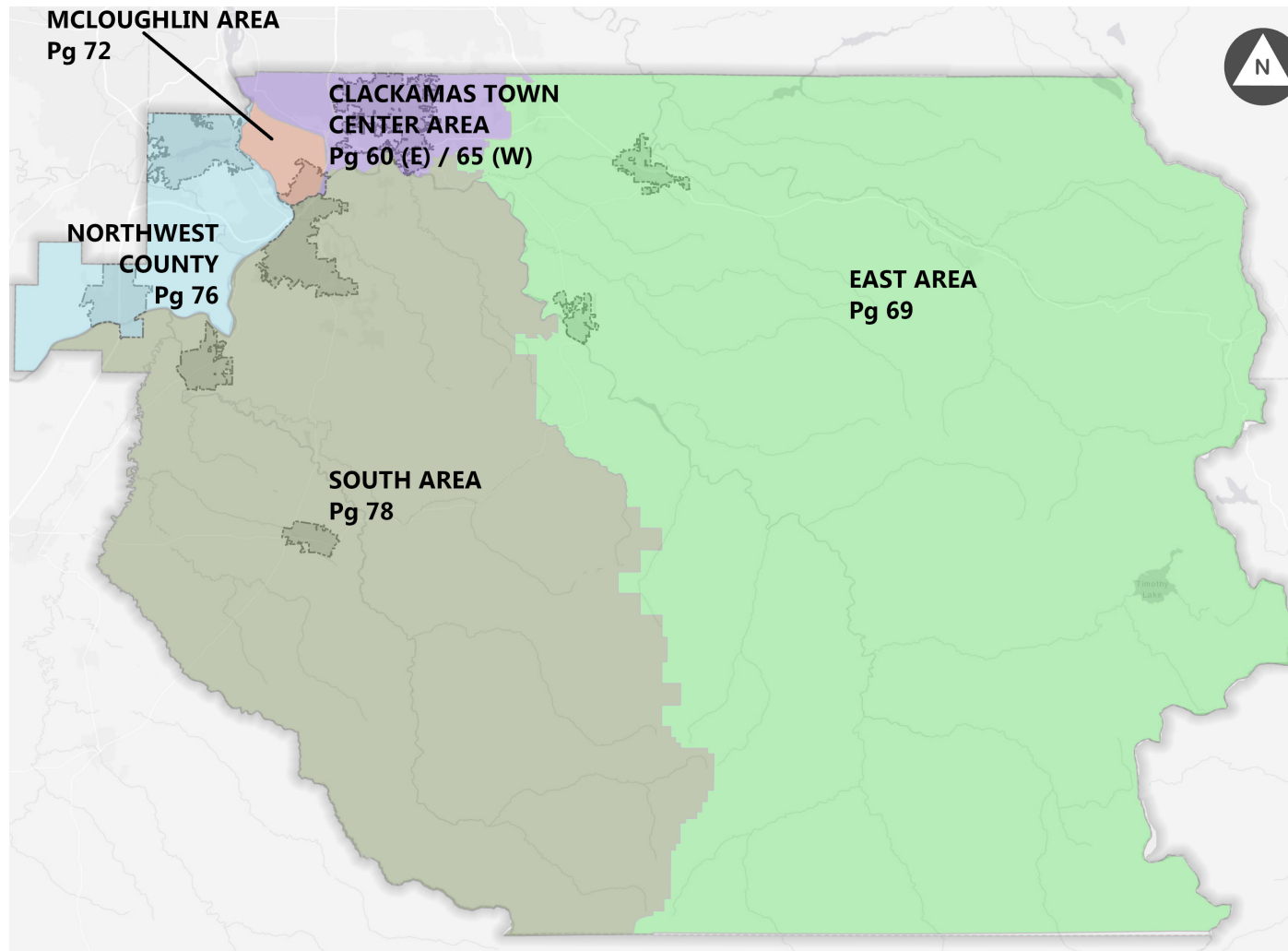


Figure 5 Land and Population by County Planning Subarea

Area	Countywide			Unincorporated County		
	Population	Acreage	Median Residential Density (people/acre)	Population	Acreage	Median Residential Density (people/acre)
Northwest County	104,336	43,124	2.42	19,876	26,978	0.74
Greater McLoughlin Area	49,615	6,820	7.28	36,351	5,217	6.97
Clackamas Town Center Area	101,780	27,255	3.73	53,889	16,469	3.27
South County*	113,285	400,164	0.28	66,463	389,153	0.17
East County**	45,917	716,737	0.06	38,869	712,998	0.05
Countywide	414,933	1,194,099	0.35	215,448	1,150,815	0.19

*83.0 square miles, or 13.2%, of Southwest County is Federal land.

** 578.6 square miles, or 51.4%, of East County is Federal land.

2.3 Pedestrian and Cyclist-involved Crashes

Clackamas County has a goal to eliminate fatal and serious injury crashes on its roads by 2035.

Between 2016 and 2022, 93 people were killed or seriously injured in pedestrian or bicyclist-involved crashes in Clackamas County, with the most crashes involving pedestrians. The areas of the county with the highest and lowest population densities (Greater McLoughlin Area and East County, respectively) had the highest proportions of fatal or serious pedestrian-involved crashes.

Figure 6 Crashes between 2016-2020 by Transportation Planning Subareas

Area	Pedestrian involved crashes			Bicyclist involved crashes		
	All crashes	Fatal or Serious Injury Crashes	Percentage Fatal or Serious Injury Crashes	All crashes	Fatal or Serious Injury Crashes	Percentage Fatal or Serious Injury Crashes
Northwest County	50	10	20%	39	0	0%
Greater McLoughlin Area	21	16	76%	35	1	3%
Clackamas Town Center Area	90	25	28%	75	11	15%
South County	68	16	24%	52	5	10%
East County	19	9	47%	8	0	0%
Countywide	278	76	-	199	17	-

Data Source: ODOT Crash Data Viewer

2.4 Active Transportation Conditions

Existing pedestrian network snapshot

Sidewalks are key to increasing walking as a mode of transportation, but most roads in unincorporated Clackamas County do not have any sidewalks.

In unincorporated Clackamas County, streets without sidewalks account for nearly 93% of the total roadway centerline mileage. This is in large part because sidewalks are required in urban areas, but not in rural areas. Sidewalk availability is highest in Clackamas Regional Center area and least common in Southwest County.

Figure 7 Sidewalks in Clackamas Regional Center Area



PEDESTRIAN NETWORK FACTS

Major Streets

- Four percent of major and five percent of minor arterials have sidewalks on at least one side
- Eight percent of principal arterials have sidewalks on both sides

Local Streets

- Eight percent of local streets have sidewalks on both sides

Existing bicycle network snapshot

Clackamas County has over 100 miles of bikeways in unincorporated areas, yet much of the network has gaps and inconsistencies.

There are 102 miles of bikeways on unincorporated Clackamas County roads and 29 miles of multi-use paths. While most current county bikeways are traditional bike lanes, the planned bikeways include protected bike lanes, shoulder bikeways, shared streets, and off-street facilities such as hard surface multi-use paths. (County data on existing bikeways data does not distinguish between striped bike lanes, buffered bike lanes, and separated bike lanes.)

Figure 8 Hard Surface Trail on SE Monroe St between SE Fuller Rd and SE 82nd Ave



BICYCLE NETWORK FACTS

- Most of the on-street bikeways in the County are in the Clackamas Regional Center Area and the McLoughlin Area
- Nearly two-thirds of the existing multi-use paths are in East County or in the Clackamas Regional Center Area

Figure 9 Existing Transportation Infrastructure within Planning Subareas

Area	Number of Centerline miles	On-street bikeway facility mileage	Multi-use path* mileage	Sidewalk Mileage		
				Both sides of street	One side of street	Neither side
Northwest County	138.4	2.0	3.8	2.5	4.4	131.6
Greater McLoughlin Area	130.1	23.8	5.4	15.5	15.2	99.4
Clackamas Town Center Area	226.5	33.5	9.3	62.7	28.5	135.3
South County	770.7	33.1	0.8	0.9	2.3	767.5
East County	554.7	9.3	9.5	0.9	1.1	552.7
Countywide	1,820.3	101.7	28.9	82.4	51.5	1,686.4

*Sometimes referred to as off-street bikeway facility.

2.5 Current Walking and Bicycling Levels

The percentage of workers who walk and bike to work in Clackamas County is less than the percentage in Oregon overall.

Figure 10 Workers who Bike and Walk to Work*

	Clackamas County	State of Oregon
Bike mode share to work	0.6%	2.0%
Walk mode share to work	2.1%	3.7%

* Data Source: American Community Survey (ACS) 5-year percentage data for 2015-2019

3. Public Engagement

Stakeholder engagement was a critical element of the Walk Bike Clackamas process and recommendations.

The Walk Bike Plan was guided by four engagement milestones consisting of touchpoints with an advisory committee, traditional and non-traditional open house events and public surveys. The engagement milestones were timed to inform each of the following elements of the plan:

- Existing conditions
- Goals and objectives
- Needs and potential projects and programs to satisfy them
- Moving to implementation

Figure 11 Clackamas County Staff at a Pop-up Outreach Event in December 2022



3.1 Walk Bike Advisory Committee

The Walk Bike Advisory Committee (WBAC) guided the plan by advising the county at key milestones and providing input on project deliverables at four meetings.

The 18 WBAC members represented a wide range of community values and interests including community and professional representatives. WBAC membership consisted of a balance of geographic and special interests, gender, age, and ability to ensure representation among groups historically under-represented.

Figure 12 WBAC Summary of Activity

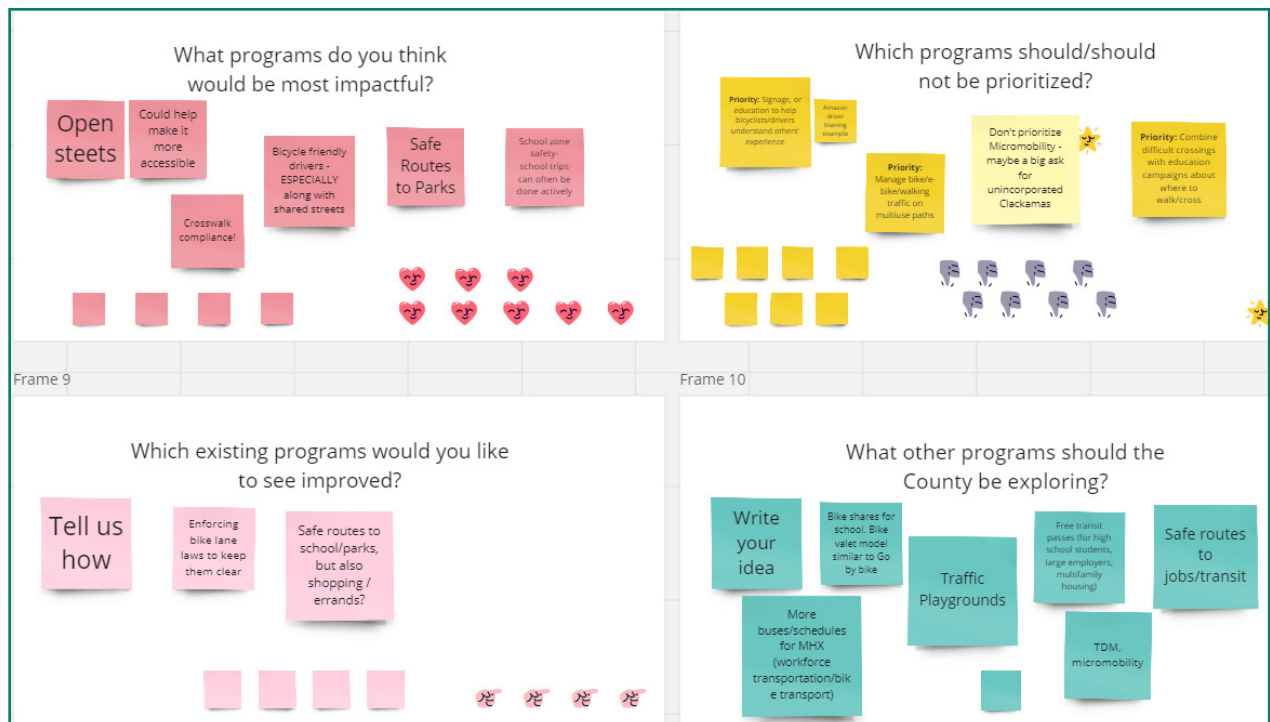
	WBAC #1	WBAC #2	WBAC #3	WBAC #4
Date	10/26/22	2/8/23	7/26/23	4/16/24
# of WBAC Attendees	14	13	16	12
Topics Covered	<ul style="list-style-type: none"> • Project purpose and need • WBAC member expectations 	<ul style="list-style-type: none"> • Existing conditions summary • Process and outcomes from Public Engagement #1 • Defining project success • Shared Streets • Supportive bike and pedestrian programs 	<ul style="list-style-type: none"> • Agency Partner Workshop Recap • Gap and Deficiencies Analysis highlights • Project identification and prioritization framework 	<ul style="list-style-type: none"> • Overview of public draft plan • Review project maps and tables • Discuss planned public engagement activities
Key Decisions and Outcomes	<ul style="list-style-type: none"> • What affects one’s experience walking, rolling, and biking in Clackamas County; how to improve on this experience 	<ul style="list-style-type: none"> • Metrics for successful project goals • Possible locations for Shared Streets • New programs that would be most impactful in the county and existing programs that should be improved 	<ul style="list-style-type: none"> • Prioritization criteria adjustments • Project identification confirmation 	<ul style="list-style-type: none"> • Options for reaching out to stakeholders to encourage commenting on the final plan • Discussion about final draft plan and value of the information for future county transportation planning

What we heard

The WBAC identified the following key elements for the final plan:

- Personal safety and comfort accessing transit stops, sidewalks, and bicycle networks.
- Collaboration between the county and cities.
- A focus on public engagement.
- Use of Shared Streets to connect with the larger active transportation network.
- Installation of infrastructure to expand Safe Routes to School and connections to other everyday destinations.
- Explicit descriptions of how equity will be integrated in project identification and scoring.
- Include facility maintenance into project recommendations.
- Safety as an important overarching goal.
- Equitable distribution of projects among all five planning subareas.

Figure 13 Miro Board from WBAC Meeting #2 with Input on Programs



3.2 Public Events Summary

Public engagement included Community Conversation pop-up events, a virtual interactive map, three public surveys, social media posts, interested parties list with email blasts, presentations to community groups and in-person and virtual open houses.

By the Numbers:

Milestone #1	Milestone #2	Milestone #3	Milestone #4
Late Fall 2022	February 2023	August 2023	2024
Community Conversations	Virtual interactive map and survey	Open House event & survey	Public input on draft report and virtual open house
110 participants	~200 survey respondents	416 participants	660 survey respondents

Milestone #1: Community Conversations: Project Kick-off

The first round of public engagement in late fall 2022 included four in-person Community Conversations held throughout the county and a corresponding online survey, with over 110 total participants. Community Conversations is a public engagement technique centered around holding events and open houses in locations where people are already gathering. "Bringing information to residents" can allow for more meaningful dialogue and wider dissemination of information. Engagement Milestone #1 was designed to build awareness and support for WBC, including:

- Understand what people like and dislike about walking, rolling, and biking in Clackamas County.
- Begin to identify gaps and deficiencies in the walking, rolling, and biking networks.
- Understand community priorities to inform project goals and objectives.



What we heard

- Clackamas County needs more active transportation and multimodal infrastructure improvements.
- People want to use Active Transportation in all parts of Clackamas County but don't, because they are concerned about safety due to lack of infrastructure and proximity to vehicle traffic.
- County needs more separated and/or protected bike lanes



Milestone #2: Interactive Map Survey: Opportunities and Barriers

The second round of public engagement consisted of a virtual open house and interactive map-based survey.

Engagement Milestone #2 was designed to:

- Explain the project to members of the public.
- Solicit feedback on opportunity locations for new and /or enhanced facilities.
- Share and request feedback on draft goals.
- Solicit feedback on challenges and barriers to walking and bicycling.
- Gather suggestions on needed bikeway, sidewalk and crosswalk locations.
- Introduce the concept of Shared Streets and gather suggestions on potential locations.

The Virtual Open House webpage received more than 900 page views, more than 200 people responded to the surveys and shared nearly 800 written comments, and participants shared 270 submissions to the online map tool highlighting barriers and opportunities for active transportation.



What we heard

- Survey respondents:
 - Supported the draft goals and the Shared Streets concept.
 - More than 70% indicated strong support for all six goals; safety had the most support, while equity had the least.

Milestone #3: Open House and Survey: Project Priorities

Public Engagement Milestone #3 consisted of an in-person open house at North Clackamas Parks & Recreation District's (NCPRD) Movies in the Park at North Clackamas Park, multi-day tabling at the Clackamas County Fair, and an online survey. The purpose was to:

- Share findings from the gaps and deficiencies analysis.
- Present and gather reactions to recommended program priorities.
- Obtain feedback on draft pedestrian and bicycle projects, and priority improvements.

The two in-person events attracted 416 visitors. The online survey received 202 responses, with each planning subarea receiving 40 to 100 comments.



What we heard

Themes from this engagement milestone reinforced the WBC goals, and suggested key projects and preferences for types of investments:

- Safety for active transportation remains a concern.
- Participants at in-person events voiced the need for separated pedestrian and bicycle facilities, and/or paved shoulders in rural areas, and at other specific locations.
- There are network gaps between destinations. There are many destinations, but walking and biking connections between them are inadequate and feel unsafe.
- Survey respondents emphasized the importance of maintenance on county roadways.

Among the recommended programs, people expressed the most support for School Zone Safety campaigns, Open Streets events, Bicycle-Friendly Drivers campaign, and a No Parking in the Bike Lane campaign.



Milestone #4: Online Survey: Draft Final Report Recommendations

Public Engagement Milestone #4 consisted of five online surveys, available in both English and Spanish, from July 16-August 15, 2024. The purpose was to give the public the opportunity to view and express their views on the draft final plan, including:

- Which proposed projects and programs are most important to them, and
- Specific pedestrian and bike infrastructure needs

Each survey focused on and included proposed projects and programs relevant to one of five areas of unincorporated Clackamas County: McLoughlin, Clackamas Town Center, Northwest County, East County and South County. People were able to respond to as many surveys as they wished.



What we heard

- There were 660 survey respondents.
- Approximately 2/3 responded from a mobile device.
- Consistent with what we had been hearing from the public since the project began, safety was the funding priority throughout the county.
- Large loop trails seemed particularly popular in rankings of specific projects by area.
- In the McLoughlin area, there were many requests for improvements around Concord Avenue.
- Many people expressed an interest in a pedestrian/bicycle bridge across the Willamette River between Oak Lodge and Lake Oswego.



Project preferences by subarea are listed below, sorted by project number. Respondents were asked to choose from the identified Tier 1 choices, but Tier 2 and 3 projects were also shown for reference.

Figure 14 Survey Respondents' Preferred Projects

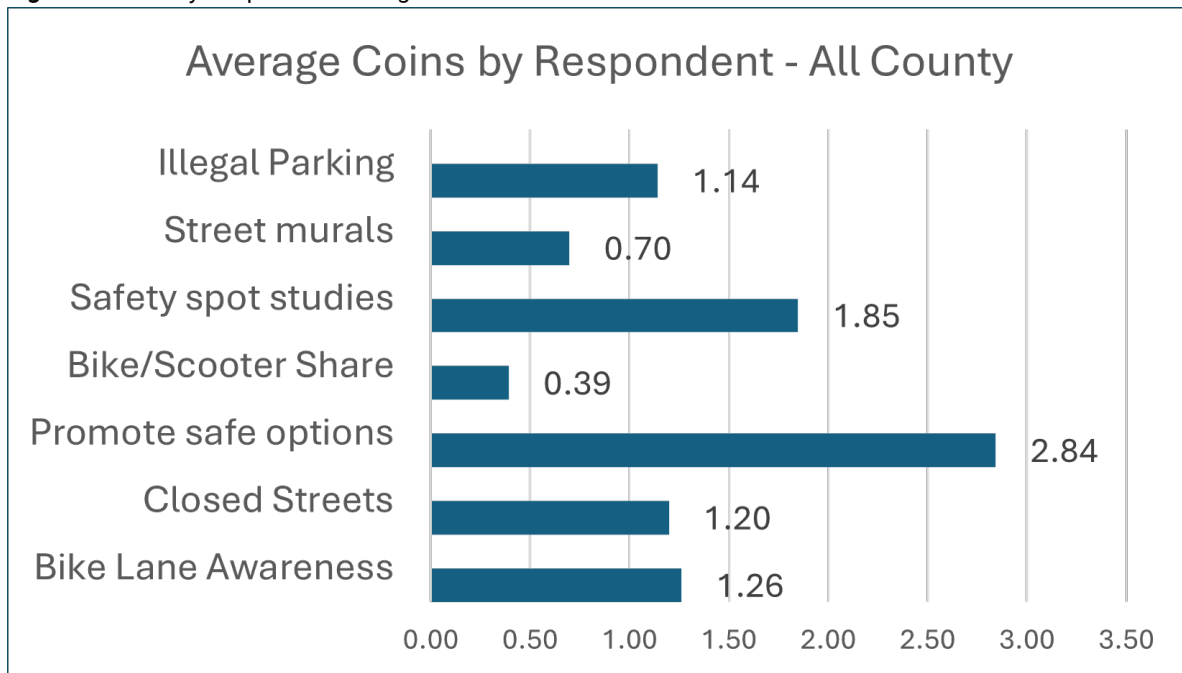
Subarea	Project	Project ID
South Area	S Leland Road paved shoulders	S106
South Area	Newell Creek / Oregon City Loop Trail	S107
South Area	S Henrici Road paved shoulders	S108
South Area	Beavercreek Multi-Use Path	S109
McLoughlin Area	OR 99E (McLoughlin Blvd) pedestrian facilities & bikeways	M103
McLoughlin Area	Oatfield Road pedestrian facilities & bikeways	M108
McLoughlin Area	Thiessen Road pedestrian facilities & bikeways	M110
McLoughlin Area	OR 99E (McLoughlin Blvd) / SE Jennings Ave bike crossing	M114
Clackamas Town Center Area	OR 224 Multi-Use Path	CW115
Clackamas Town Center Area	Harmony Road pedestrian facilities & bikeways	CW116
Clackamas Town Center Area	SE Lake Road pedestrian facilities	CW117
Clackamas Town Center Area	SE Lake Road pedestrian facilities and bikeways	CW118
Clackamas Town Center Area	SE 82nd Avenue Multi-Use Path connection	CW120
Clackamas Town Center Area	SE 82nd Drive pedestrian facilities and bikeways	CE102
Clackamas Town Center Area	Sunrise Multi-Use Path	CE106
Clackamas Town Center Area	Scouters Mountain / Mt Scott Loop Trail	CE107
Clackamas Town Center Area	OR 224 bikeways	CE118
Northwest Area	Willamette River Greenway	N102
Northwest Area	Lake Oswego to Milwaukie Bridge (OGLO)	N103
East County Area	Tickle Creek Trail	E104
East County Area	Cazadero Trail	E107
East County Area	OR211 paved shoulders	E109

Respondents were given 10 coins and asked to assign them based on their preference for seven possible programs:

- Close streets for community events
- Promote safe driving and walking options
- Build awareness about safe driving near bike lanes
- Target illegal parking in bike lanes
- Provide shared bike or scooter rentals
- Study key locations for safety solutions
- Support neighborhood street murals to calm traffic

The results reaffirmed previous findings that safety is a top priority across the county.

Figure 15 Survey Respondents' Programmatic Priorities



3.3 Other Engagement Tools

The following tools were used to solicit public and stakeholder input throughout the course of WBC.

- **Project website:** to make it easy for people to learn more about the project and access meetings and material.
- **Fact sheet:** to summarize the project purpose, desired outcomes, schedule, and opportunities on a single page.
- **Interested parties list:** for anyone who signed-up online or at in-person events to receive project updates and notifications by email.
- **Briefings at monthly PBAC meetings:** to inform the Pedestrian and Bicycle Advisory Committee (PBAC) about the study process and key decisions.
- **Agency Partner Workshop:** to coordinate pedestrian, bicycle, and other transportation efforts between Clackamas County and cities in the county. In the Workshop, we:
 - Introduced WBC
 - Learned about projects being planned by other agencies
 - Identified places where Clackamas projects would extend connectivity between unincorporated and incorporated areas
- **News releases and social media:** to share information about project outreach opportunities and meetings with the general public.
- **Community Planning Organizations (CPO) meetings:** to inform residents of project and obtain feedback.

Appendix B: Public Involvement Plan describes the tactics in more detail.

Figure 16 WBC Website

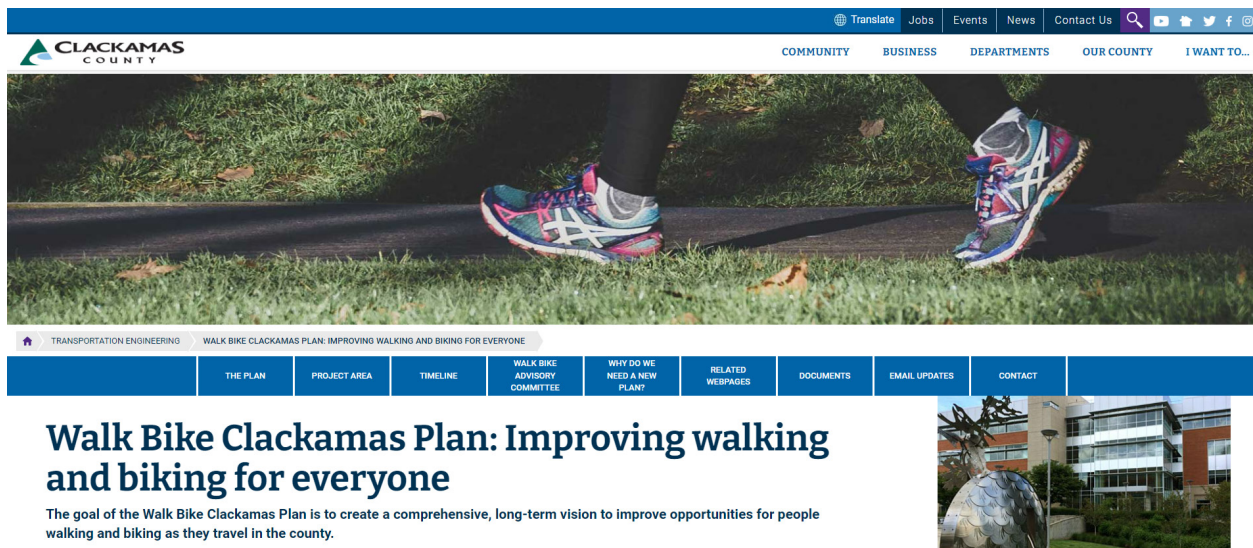


Figure 17 Fact Sheet

Walk Bike Clackamas

Making it easier and safer for people to walk, bike, and roll in Clackamas County



Clackamas County is updating its pedestrian and bicycle master plans to create a comprehensive, long-term vision and to identify ways to improve walking, bicycling, and rolling for all people who live, work, and recreate throughout unincorporated areas of the county. The plan will be developed with extensive and ongoing community engagement, along with technical analysis and expertise.

Why this project?

People are increasingly interested in using “active transportation” – walking, bicycling, and rolling (roller skates, wheelchairs, strollers, etc.) – for a variety of reasons. Some people don’t have access to motorized transportation; some need to get to bus or light rail connections; and many people just want to enjoy the health benefits of traveling by foot or on wheels.

Since the county’s last bicycle and pedestrian plan update in 2003, our transportation system has changed. Many of the projects identified in that plan were built and new policies have been established to meet today’s travel needs.

In addition, the deadline for our goal to be carbon neutral countywide by 2050 is less than 30 years away! Since motorized transportation is a major source of greenhouse gas emissions, we need to make it easier and safer for more people to walk, bicycle, and roll to get where they need to go.

What will the WBC plan do?

This plan will:

- Establish a community-backed vision to meet active transportation (walking, biking, and rolling) needs for county travelers.
- Develop priorities for where to build additional infrastructure such as bike lanes and sidewalks.
- Update active transportation policies and adopt performance measures to track progress on achieving our goals.
- Provide a framework for making transportation decisions that includes everyone and advances health equity.

The final plan will be incorporated into our Transportation System Plan, which will be updated in the next two years.

What areas in Clackamas County are included in the plan?

Walk Bike Clackamas (WBC) will cover all urban and rural unincorporated areas of the county. We will coordinate recommended projects, programs, policies, funding, and construction opportunities with cities in the County.

How will public input be used to create the plan?

Walk Bike Clackamas will keep community voices in the center of the process in every step of plan development.

- The Walk Bike Advisory Committee (WBAC):** Community members and technical experts will review project work and advise the project team.
- Public engagement:** A variety of activities and processes will make sure the project team hears from county residents at community events, libraries, senior centers, and other places people visit every day. The team will seek your questions, concerns, and ideas about walking, biking, and rolling in Clackamas County, and work to provide the information you need to help create a meaningful, workable plan. The plan will also prioritize in-person outreach in areas with concentrations of communities of interest.
- Community survey and web map:** A virtual mapping tool and survey will be used to invite public input to identify walking and biking needs, and project ideas; comparable materials will be used to invite input from people with limited access to technology.

A health equity lens will be used in the project

A person’s health is strongly influenced by their race, income, and home zip code. Investing in active transportation infrastructure and programs in areas with the greatest need can help reduce disparities in physical activity, related health indicators, and exposure to air and noise pollution.

What’s the schedule?

This project began in August 2022 and is expected to be completed in early 2024. There are several key milestones for public input:

Fall 2022	Winter-Summer 2023	Fall-Winter 2023-24
Setting the stage: Existing conditions, goals, and objectives	Developing strategies: Needs assessment and recommended projects	Moving to implementation: Draft and final plan, and regulatory amendments

WBAC #1
Public Engagement Milestone #1



WBAC #2
Online Survey Milestone #2



WBAC #3
Public Engagement Milestone #3



WBAC #4
Public Engagement Milestone #4

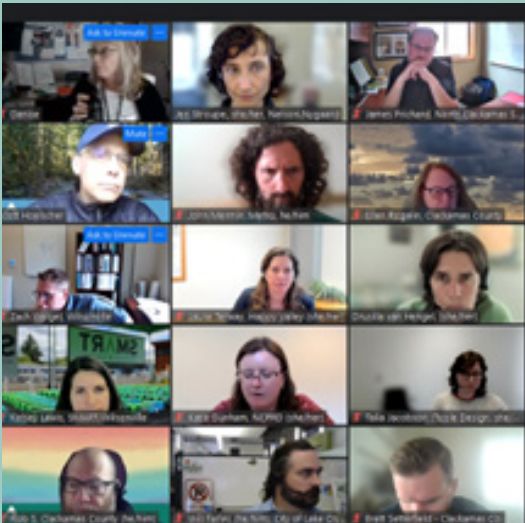


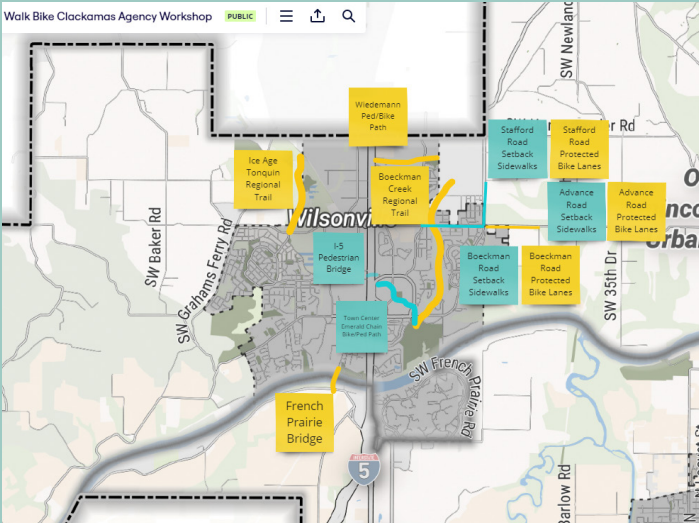
Have questions? Want to follow our progress?

Visit the project website to learn more and sign up for updates:
clackamas.us/engineering/bikewalk
 Contact Scott Hoelcher, Project Manager
 503-742-4533 | ScottHoel@clackamas.us



Figure 18 Agency Partner Workshop and Miro Board







4. Goals and Objectives

4.1 Overall Plan Vision

Walk Bike Clackamas is a comprehensive, long-term roadmap to improve opportunities for people of all ages and abilities walking and biking as they travel in the county.

4.2 Goals and Objectives

Goals are general statements of what the community wants to achieve.

Objectives are steps needed to realize goals.

Supportive actions are specific concrete steps county can take to advance the goals and objectives.

Performance measures are specific outcomes that can be monitored and measured to track progress towards WBC goals.

The following goals, objectives, supportive actions, and performance measures are based upon TSP active transportation policies, best practices, survey results, and WBAC input.

See **Technical Memorandum 5: Pedestrian and Bicycle Goals and Objectives** for a list and description of previous plans that informed the vision and goals.

Figure 19 Goals and Objectives

Goal	Objective
 <p>Safety</p> <p>Improve the safety of people walking and bicycling through safe street design and supportive programs.</p>	<p>Support safe walking and bicycling by:</p> <ul style="list-style-type: none"> • Separating people walking, rolling, and bicycling from cars and trucks. • Improving street crossings. • Adding lighting to high-volume pedestrian areas and trails. • Providing dedicated space for people moving at different speeds, especially on shared paths with both people walking and using electric devices. • Promote and sustain Safe Routes to School programs in all Clackamas County school districts.

Goal	Objective
 <p>Accessibility</p> <p>Ensure walkways and bikeways are accessible for people of all ages, abilities, and incomes.</p>	<ul style="list-style-type: none"> • Repair and maintain existing sidewalks, trails, bikeways, ramps and wayfinding signs. • Define an all-ages and abilities network for walking and biking through places with a concentration of community destinations. • Create comfortable walking and biking connections to public transit. • Provide end-of-trip and streetscape amenities to support people walking and bicycling.
 <p>Connectivity</p> <p>Develop and maintain walking and biking routes that provide convenient and clear connections to important community destinations in Clackamas County.</p>	<ul style="list-style-type: none"> • Form connected networks of trails, sidewalks, and bikeways, including street crossings near places with concentrations of community destinations such as parks, natural areas, schools, commercial districts, and other destinations. • Coordinate with and connect to existing and planned active transportation projects in incorporated areas within the county. • Recognize the different facility design that may be needed in rural areas. • Design bicycle facilities considering the land use context and adjacent motor vehicle speeds and volumes.
 <p>Sustainability</p> <p>Expand and promote active travel (walking and biking) options that optimize the environment, the economy, and community benefits.</p>	<ul style="list-style-type: none"> • Encourage and support active transportation mode shift with educational campaigns, incentive programs, or community events. • Include Complete Streets elements in street design and project delivery. • Increase tree canopy and native, climate adapted and low impact development plantings along walkways and bikeways.* • Develop a travel options program to focus on strategies to manage transportation choices and increase the appeal of walking, bicycling, and other non-single occupancy vehicle modes.
 <p>Equity</p> <p>Focus investments to ensure safe transportation alternatives regardless of age, race, income, gender, and ability.</p>	<ul style="list-style-type: none"> • Provide equitable access to active transportation facilities for all communities, especially Communities of Interest. • Improve access to job opportunities, medical care, local commercial services, and neighborhoods within Communities of Interest. • Integrate equity into all aspects of the planning, development, financing, and implementation of projects and programs.
 <p>Health</p> <p>Plan and provide infrastructure that allows people to safely walk, run or cycle for improved health.</p>	<ul style="list-style-type: none"> • Prioritize active transportation networks and corridors that connect residents to medical care facilities, schools, parks and recreation facilities, and transit facilities. • Encourage physical activity through active transportation for recreation, commutes, and other trips. • Design and construct active transportation facilities that encourage an active lifestyle that will improve residents' physical and mental health.

*U.S. Environmental Protection Agency. Urban Runoff: Low Impact Development: <https://www.epa.gov/nps/urban-runoff-low-impact-development>

4.3 Supportive Actions

The following actions are concrete steps the county can take to meet plan goals.

Safety

- Provide safe and convenient crossings by coordinating with pedestrian, bicycle, and trail master plans, as well as special transportation plans of the county, Oregon Department of Transportation, the United States Forest Service, Metro, and parks providers.
- Ensure coordinated connections between off-road multi-use path and trail systems and on-road pedestrian facilities and bikeway networks.
- Construct shared streets to enhance safety and connectivity, and to supplement the existing bikeway network.
- Pilot new and innovative pedestrian and bicycle treatments that allow for cost-effective solutions, such as advisory bike lanes.
- Optimize crossing times for pedestrians at signals.
- Reduce turning movement conflicts at intersections.
- Develop street painting program guidelines to foster lower speeds through neighborhood intersections.
- Construct bicycle facilities separated or protected from vehicle traffic whenever possible.

Accessibility

- Direct transportation investment to adequately maintain walking and biking facilities.
- Pair infrastructure changes with enforcement activities and messaging to communicate the importance of safety and access to all travelers.
- Install/pilot new public e-Bike charging and parking stations.

Connectivity

- Coordinate the development of pedestrian facilities and bikeways with neighboring jurisdictions and jurisdictions within the county.
- Install bikeways and informal walkways as part of the ongoing pavement maintenance program.
- Support bicycle and pedestrian projects that improve access to public transit stops and to significant local destinations.
- Identify primary connections in rural areas for bikeways.

Sustainability

- Improve connection between plans for multi-use paths and county Zoning and Development Ordinance (ZDO) requirements for construction.
- Collect bicycle and pedestrian travel counts to gather data on active transportation usage over time. Develop and pilot new methods and technologies for these travel counts to do so more cost-effectively.
- Continue urban bicycle wayfinding program and add new signage when bicycle and pedestrian facilities are constructed.

Equity

- Define data-based equity focus areas/geographic zones in which projects should be prioritized.
- Develop equitable engagement protocol that includes people of all races, incomes, ages, and abilities; consider an equity task force for active transportation projects.

Health

- Identify policies to improve air quality and reduce health risks in Communities of Interest by investing in public facilities and promoting physical activity.

4.4 Performance Measures

Figure 20 WBC Performance Measures

Performance Measures	Safety	Accessibility	Connectivity	Sustainability	Equity	Health
Number of traffic crashes resulting in serious injuries and fatalities to people walking and biking, both inside and outside of areas with concentrations of Communities of Interest	✓				✓	
Number of projects supporting Safe Routes to School plans	✓		✓	✓	✓	✓
Number of miles of designated walkways and bikeways, by facility type	✓	✓	✓	✓	✓	✓
Number/proportion of public transit stops and stations with walkway, bikeway, and crossing connections	✓	✓	✓	✓	✓	✓
Increase in active transportation trips as a proportion of all trips in accordance with the draft Climate Action Plan targets (see mode share callout below)				✓	✓	✓

Performance Measures	Safety	Accessibility	Connectivity	Sustainability	Equity	Health
Number of short- and long-term secure bike parking spaces at significant local destinations	✓		✓	✓		✓
Percentage of population living within ¼-mile of All Ages and Abilities (AAA) bike network*		✓			✓	
Number of Safe Routes to School action plans completed	✓	✓	✓	✓	✓	✓
Proportion of priority projects in areas with Communities of Interest above county average			✓		✓	
Number of schools with a bike education program			✓		✓	✓
Rates for psychosocial health indicators, e.g., poor mental health days		✓			✓	✓
Rates of adults engaging in regular physical activity						✓
Volumes at local trail counters		✓		✓		✓
Number of priority projects in poor health outcome areas based on Health Outcomes Index (Figure 10, Tech Memo 2).						✓

*Contextual Guidance for Selecting All Ages & Abilities Bikeways: <https://nacto.org/publication/urban-bikeway-design-guide/designing-ages-abilities-new/choosing-ages-abilities-bicycle-facility/>

Active Transportation in the Climate Action Plan

The Clackamas County Climate Action Plan describes the goal to shift transportation from vehicles to transit, active transportation and carpooling by 2040.

The Climate Action Plan Draft Final Report includes six categories of strategies for implementation:

- Advocate for transit expansion and employer-run commute options programs.
- Educate people on travel options and their benefits, and how they are supported by the County (e.g., Safe Routes to School program, events, and giveaways).
- Implement recommended infrastructure improvements from the county’s Active Transportation Plan, Bicycle Master Plan, and Pedestrian Plan.
- Incentivize mode shift through safe and connected trails, development requirements, and regulated rideshare destinations.
- Adjust policy to eventually eliminate minimum parking requirements for new and existing developments.
- Use programs such as park and ride at county and public facilities for rideshare, carpooling, or shared micromobility services.



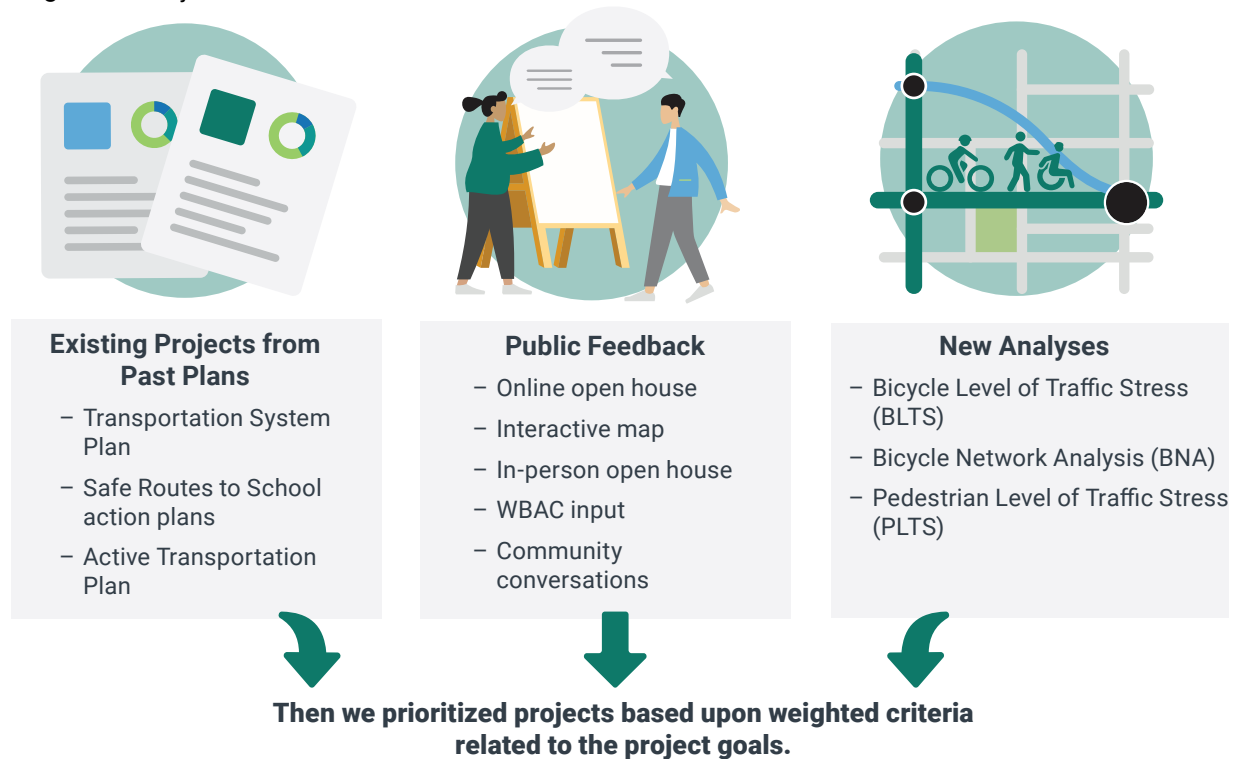
5. Approach

Walk Bike Clackamas capital projects help address the gaps and deficiencies in the County's active transportation network.

5.1 Project Identification

Projects were identified from past plans, public feedback, and new analyses.

Figure 21 Project Identification



Previously identified projects

Projects were pulled from the Transportation System Plan and Safe Routes to School action plans to form a starting point for the network. Additional projects were generated from public input on an interactive map during engagement milestone #2. Priority Active Transportation Routes and newly proposed Shared Street candidates also informed the initial project list.

Below is a breakdown of the projects by source and by road ownership. The process for prioritizing these projects is described in Chapter 6.

Figure 22 Source and Number of Identified Projects

Source	Projects on Clackamas County Roads	Cross-Jurisdictional Projects	Total
Transportation System Plan (2013)	146	25	171
Safe Routes to Schools Action Plans (2016-2022)	24	0	24
Newly identified projects	33	8	41
Total	198	33	236

Analysis

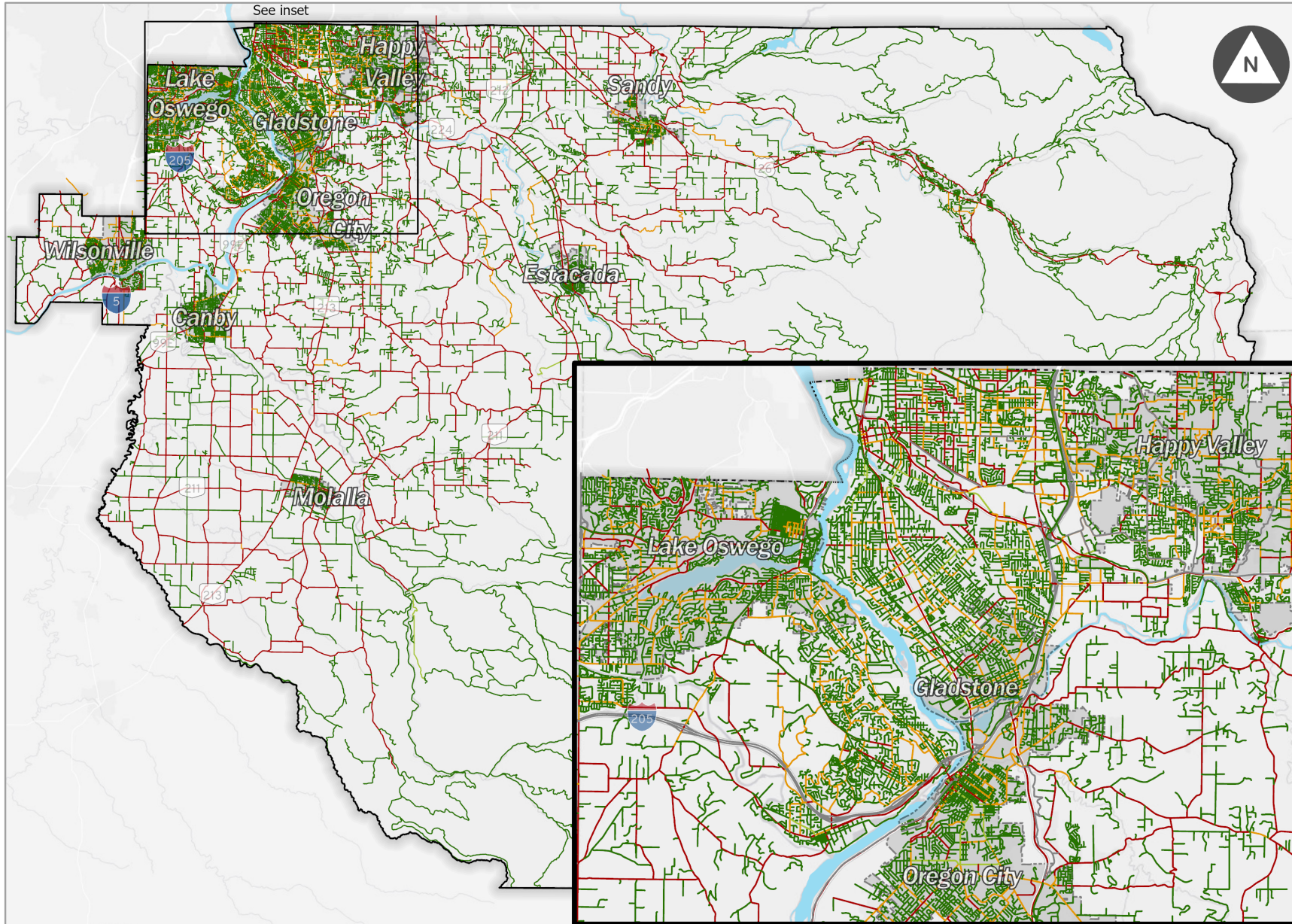
We focused on three key aspects of analysis:

- 1 Bicycle Level of Traffic Stress (BLTS):** measures roadway characteristics and stress of bicycling based on separation from traffic and traffic speeds. The spectrum below illustrates the range of BLTS from low stress (BLTS 1) to high stress (BLTS 4). New projects (to fill gaps) and improved bikeway projects (to correct deficiencies and improve the user experience) will create low stress conditions that will be suitable for riders of all ages and abilities, not simply people who are very comfortable riding with traffic.

Figure 23 BLTS Low Stress to High Stress



Figure 24 Bicycle Level of Traffic Stress



Bicycle Level of Traffic Stress

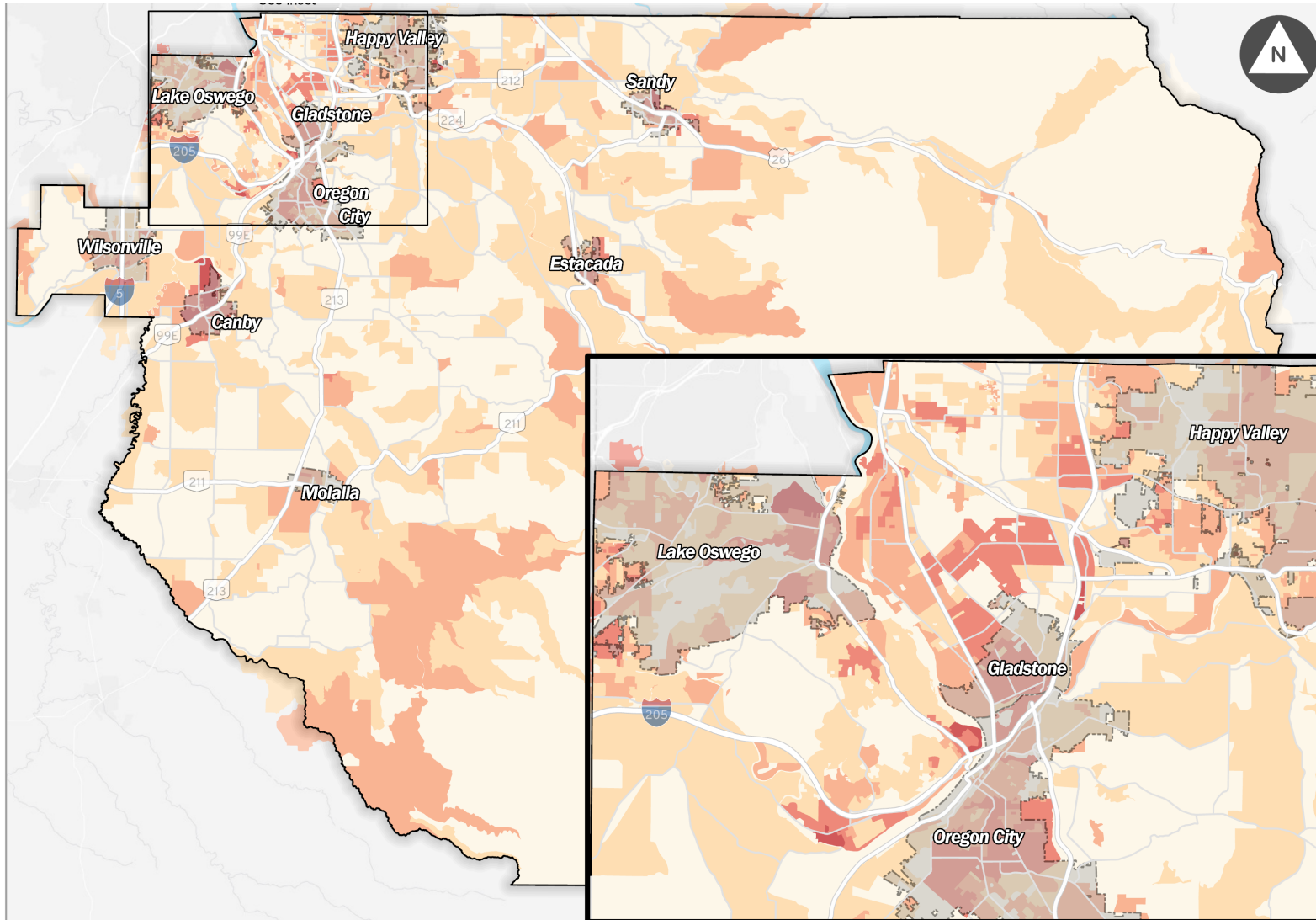
- LTS 1
- LTS 2
- LTS 3
- LTS 4

Generally, roads throughout Clackamas County were identified as either BLTS 1 (low stress) or BLTS 4 (high stress); very few were BLTS 2-3. Most higher classification and higher volume roads are BLTS 4. Rural roads outside of incorporated areas that connect incorporated cities or activity areas were majority BLTS 4, leaving few convenient and direct low stress connections across the County.

2

Bicycle Network Analysis (BNA): measures the connectivity to destinations on low-stress roads on the Census block level. This informed potential locations to connect the existing network of bikeways. Lower BNA scores equate to areas with worse connectivity. On the map, the darker colors represent areas with better connectivity, relative to other areas of the county.

Figure 25 Bicycle Network Analysis



Bicycle Network Analysis Score

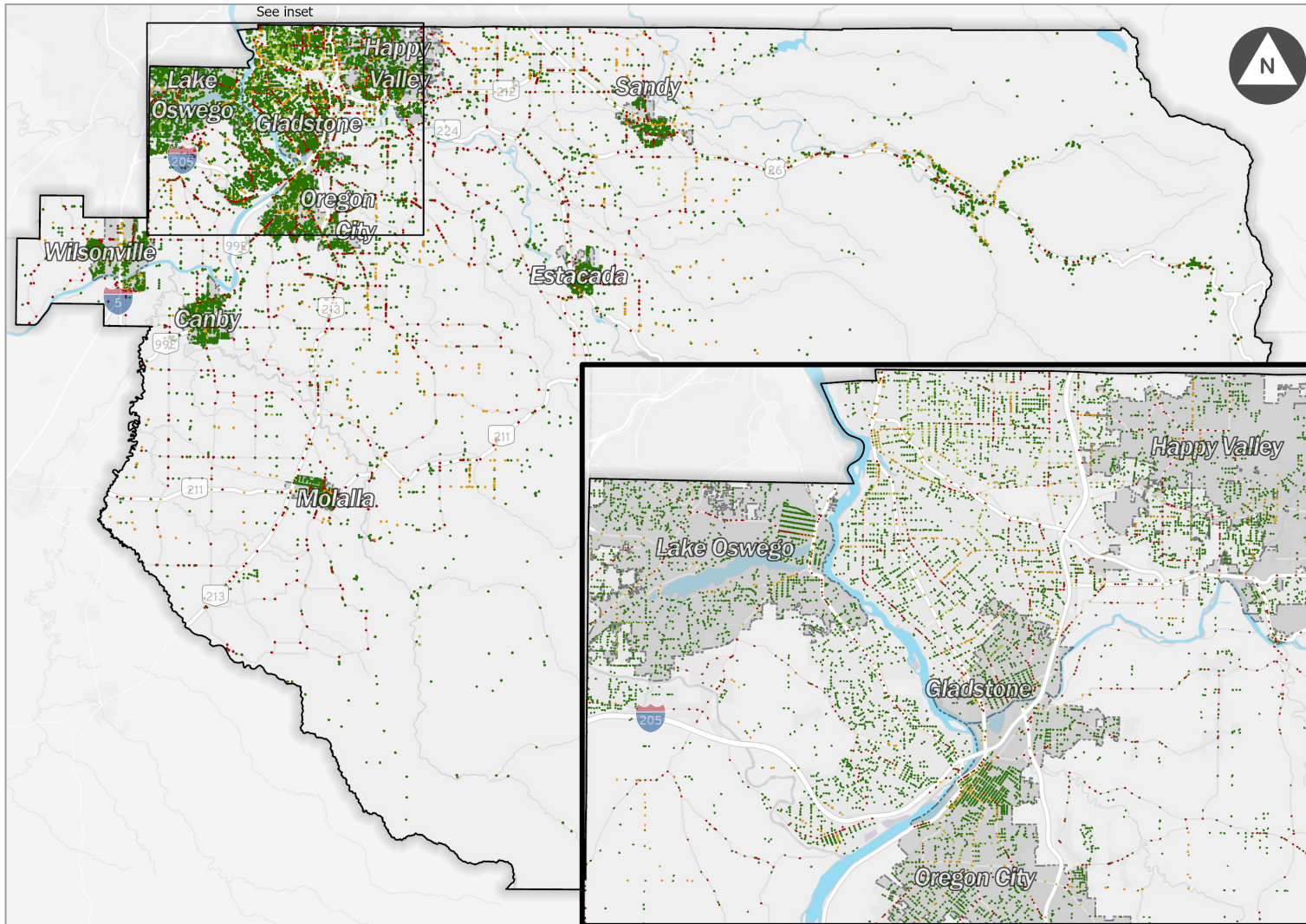
	0 - 5		30 - 50
	5 - 15		50 - 100
	15 - 30		

Much of Clackamas County is not well connected via low-stress routes, and relies on high stress routes to connect between destinations. Higher density low-stress connections are present on the outskirts of incorporated areas in the Northwest, McLoughlin, and Clackamas Town Center Areas. In the Southwest Area, there is a higher concentration of low-stress connections southeast and south of Molalla. areas were majority BLTS 4, leaving few convenient and direct low stress connections across the County.

3

Pedestrian Level of Traffic Stress (PLTS): measures stress based on roadway characteristics when pedestrians cross at roadway intersections and where trails and multi-use paths intersect streets. PLTS informed opportunities to improve walking infrastructure along and across roadways. A PLTS of 1 represents little to no traffic stress and requires little attention to the traffic situation. A PLTS of 4 represents high traffic stress. Only able-bodied adults with limited route choices would use this facility.

Figure 26 Pedestrian Level of Crossing Stress



Pedestrian Crossing Level of Traffic Stress

- LTS 1
- LTS 2
- LTS 3
- LTS 4

Crossing stress scores are generally high on higher classification and higher volume roads throughout the county. Even where adjacent lower classification streets may offer lower-stress alternatives, the high stress crossings on the county’s major corridors represents a barrier to encouraging walking and active travel.

Defining Gaps and Deficiencies

The three analyses of BLTS, BNA, and PLTS are tools to identify gaps and deficiencies. In these analyses, gaps are defined as a break in the network. A deficiency refers to the quality of the facility. The following table breaks down the connection between the analyses and how they reveal gaps and deficiencies.

Figure 27 Analyses to Inform Gaps and Deficiencies

	Output Scores	Gap	Deficiency
Bicycle Level of Traffic Stress	BLTS 1-4; 4 is higher stress	BLTS 4 conditions reveals high-stress bicycling conditions with no bicycle facility, or a poor quality facility.	BLTS 3 conditions are high stress bicycling conditions due to poor quality bikeway facilities
Bicycle Network Analysis	0-100; lower scores mean poorer connectivity to low stress facilities	Lower BNA scores reveal a geographic area with insufficient low-stress bikeway connections. Since the output of this analysis is based on Census tracts, it informs both gaps and deficiencies at a different scale of detail compared to BLTS and PLTS.	
Pedestrian Level of Traffic Stress	PLTS 1-4; 4 is higher stress	PLTS 4 reveals high stress crossing conditions due to the lack of crossing infrastructure or the roadway conditions	PLTS 3 or 4 reveals poor quality crossing conditions due to the lack of crossing infrastructure



6. Projects

Given limited resources, we prioritized projects with the most potential to meet WBC goals.

The prioritization criterion and methods described in this chapter illustrate how projects were organized into priority tiers and across planning areas.

6.1 Prioritization Methodology

Public and WBAC input on prioritization criteria resulted in a goal-based scheme for ranking potential projects. Proposed projects were scored based on weighted criteria to create a list of high, medium, and low priority pedestrian and bicycle projects. The criteria are based on the WBC plan goals, with higher consideration given to goals as identified as key project values, indicated in the table below.

Figure 28 Key Project Values

Walk Bike Clackamas Plan Goals	Key Project Value
Safety	✓
Accessibility	
Connectivity	✓
Sustainability	
Equity	✓
Health	✓

Figure 29 Prioritization Criterion by Goal*

Goal	Criterion
Safety	<ul style="list-style-type: none"> • Proximity to historic pedestrian or bicyclist-involved crashes • Crossing improvements • Safe Routes to School Plan project • Responsive to community concern
Accessibility	<ul style="list-style-type: none"> • Walkway improvement within ½ mile of one or more destinations • Bikeway or walkway improvement within 1 mile of one or more destinations • Bikeway or walkway improvement within ½ mile of bus stop • Bikeway or walkway improvement within 1 mile of MAX light rail stop • Bikeway or walkway improvement within the Clackamas Regional Center Area or within a Rural Community • Addresses concern expressed through public comment
Connectivity	<ul style="list-style-type: none"> • Fills a missing bikeway segment along a high level-of-stress road • Expands miles of bikeways along a road that scored as highly stressful • Overlaps the Essential Pedestrian Network • Completely or partially fills a missing sidewalk gap on one or both sides of an arterial or collector • Responsive to community concern
Equity	<ul style="list-style-type: none"> • 50% or more of the project is in census block group(s) with “above average” or “well above average” equity index score
Health	<ul style="list-style-type: none"> • Improvement within a ½ mile radius of a park, hospital or medical clinic, long-term care facility, pharmacy, grocery store, public elementary or middle school, or a daycare • Responsive to community concern

*Sustainability was not included as a criterion given the goal focuses on expanding and promoting active travel options rather than adding or improving infrastructure.

6.2 Prioritization Results

There were 236 projects identified countywide, including 76 high priority projects. Projects by planning subarea are quantified in Figure 30. Tier 1 projects are the highest scoring projects based on the analysis and considered high priority needs. Medium priority needs are classified as Tier 2, while the remainder of the projects are assigned Tier 3 status.

Figure 30 Projects by Planning Subarea

Area	Total Projects	Sidewalk Mileage*	Bikeway Mileage	Trail Mileage
Clackamas Town Center Area	103	33.5	56.1	38.7
East County Area	30	2.2	69.1	24.2
McLoughlin Area	40	34.3	29.7	-
Northwest County Area	19	6.9	25.5	9.0
South County Area	44	19.8	141.9	34.9
Total	236	96.7	322.3	106.8

6.3 Prioritized Projects by Planning Subarea

Projects include **linear projects** that are proposed along a length of roadway or trail and **spot improvement projects** that are proposed at individual locations. The following maps illustrate each of the projects by subarea by tier, and as either linear or spot improvement projects.

Linear projects



Examples include new bike lanes or new sidewalks.

Spot improvement projects



Examples include crosswalk improvements, intersection upgrades, and new curb ramps.

Figure 32 Projects in Clackamas Town Center Area East

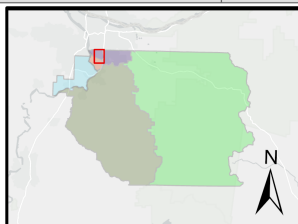
Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CE101	Linear	I-205 Multi-Use Path bike-ped bridge	West side of I-205	East side of I-205	Construct bike/pedestrian bridge over I-205 in vicinity of Clackamas Road / Jannsen Road	0.1	1	CTC East	A-3	Cross-Jurisdictional
CE102	Linear	SE 82nd Dr pedestrian facilities and bikeways	OR 212	I-205 Multi-Use Path	Fill in bikeways and pedestrian facilities gaps	0.8	1	CTC East	A-3	Clackamas County
CE103	Linear	SE Evelyn St pedestrian facilities and bikeway	OR 224	Jennifer St	Fill gaps in bikeways and pedestrian facilities	0.39	1	CTC East	A-4	Clackamas County
CE104	Linear	SE 106th Ave pedestrian facilities and bikeways	OR 212	SE Jennifer St	Fill in gaps in pedestrian facilities and bikeways	0.32	1	CTC East	B-4	Clackamas County
CE105	Linear	SE Jennifer St pedestrian facilities and bikeways	SE 82nd Dr	SE 135th Ave	Fill in pedestrian facility gaps and bikeway	2.38	2	CTC East	B-4	Clackamas County
CE106	Linear	Sunrise Multi-Use Path	OR 224	Rock Creek Junction	Construct multi-use path from 122nd to Rock Creek Junction parallel to the Sunrise corridor project	1.6	1	CTC East	C-4	ODOT
CE107	Linear	Scouters Mountain / Mt Scott Loop Trail	Loop trail through Happy Valley, Damascus, Clackamas County and Portland		Construct multi-use path in accordance with the Active Transportation Plan	27.63	1	CTC East	AREAWIDE	Clackamas County
CE108	Linear	SE 122nd Ave pedestrian facilities	SE Sunnyside Rd	SE Hubbard Rd	Fill gaps in pedestrian facilities, consider turn lanes at SE Mather Rd	1.03	1	CTC East	B-3	Clackamas County
CE109	Point	SE 122nd Avenue / SE Mather Rd crosswalk	SE Mather Rd	SE 122nd Ave	Install new crosswalk		1	CTC East	B-3	Clackamas County
CE110	Linear	SE Opal Way pedestrian facilities	SE 125th Ave	SE 128th Ave	Add pedestrian facilities	0.17	1	CTC East	C-3	Clackamas County
CE111	Linear	SE Huron Street sidewalk	30 ft east of SE 122nd Ave	SE 126th Ave	Install sidewalk	0.22	1	CTC East	C-3	Clackamas County
CE112	Point	SE Hubbard Rd / SE 130th Dr crosswalk	SE Hubbard Rd	SE 130th Dr	Install new crosswalk		1	CTC East	C-3	Clackamas County
CE113	Point	SE 132nd Ave / SE Normandy Dr crosswalk	SE 132nd Ave	SE Normandy Dr	Install crosswalk at Normandy Dr		1	CTC East	C-3	Clackamas County
CE114	Linear	SE 132nd Ave / SE 135th Ave sidewalk and bikeways	OR 212	SE Woodland Circle	Fill sidewalk gaps and bikeways and explore turn lanes at major intersections	1.55	1	CTC East	C-3	Clackamas County
CE115	Linear	SE 142nd Ave pedestrian facilities and bikeways	SE Sunnyside Rd	OR 212	Add bikeways and pedestrian facilities	1.03	1	CTC East	C-3	Clackamas County
CE116	Linear	SE 152nd Ave pedestrian facilities and bikeway	Sunnyside Rd	OR 212	Fill in gaps in pedestrian facilities and bikeway	1.14	1	CTC East	D-3	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CE117	Point	SE 152nd Dr / SE Pioneer Dr crosswalk	SE 152nd Dr	SE Pioneer Dr	Construct new crosswalk with pedestrian median, RRFB and advance warning signs at intersection with SE 152nd Ave		1	CTC East	D-3	Clackamas County
CE118	Linear	OR 224 bikeways	OR 212	SE Midway St	Add bikeways	1.22	1	CTC East	D-4	ODOT
CE119	Linear	SE Foster Rd shoulder widening	Happy Valley city limits	OR 212	Widen shoulder based on operational and safety analysis during project development	0.38	1	CTC East	F-3	Clackamas County
CE120	Linear	SE Tillstrom Rd shoulder widening	SE Foster Road	SE 242nd Avenue	Widen shoulder based on operational and safety analysis during project development	3.61	1	CTC East	G-2	Clackamas County
CE121	Linear	SE Sunshine Valley Rd shoulder widening	SE 242nd Ave	SE 250th Place	Widen shoulder based on operational and safety analysis during project development	0.36	1	CTC East	H-2	Clackamas County
CE201	Linear	SE Idleman Rd pedestrian facilities and bikeways	SE 92nd Ave	SE Westview Ct	Fill gaps in bikeways and pedestrian facilities	0.53	2	CTC East	A-1	Clackamas County
CE202	Linear	SE Stevens Rd / SE Stevens Way pedestrian facilities and bikeways	SE Causey Ave	SE Idleman Rd	Fill in pedestrian facility gaps and bikeway	0.7	2	CTC East	A-1	Clackamas County
CE203	Point	SE Stevens Road crosswalk	SE Stevens Rd	Mount Scott Elementary School	Add a raised median pedestrian refuge at the mid-block crossing in front of the school		2	CTC East	A-2	Clackamas County
CE204	Point	Sunnyside Hospital / SE Sunnyside Rd / SE Stevens Rd intersection	SE Sunnyside Rd	SE Stevens Road	Install protected bikeway intersection, consider leading pedestrian interval (LPI) for walking signal and signage to allow bicyclists to cross with LPI		2	CTC East	A-2	Clackamas County
CE205	Linear	SE Hubbard Rd pedestrian facilities	SE 122nd Ave	SE 132nd Ave	Fill gaps in pedestrian facilities	0.53	2	CTC East	C-3	Clackamas County
CE206	Linear	Pfeifer Park Multi-Use Path	SE Territory Dr and SE 142nd Ave	Pfeifer Park	Construct multi-use path from SE 142nd Ave and SE Territory Dr to Pfeifer Park, with crosswalk and signage at intersection	0.13	2	CTC East	C-3	Cross-Jurisdictional
CE207	Linear	SE Sunnyside Rd pedestrian facilities and bikeway	SE Stevens Rd	OR 212	Fill gaps in pedestrian facilities and bikeways	5.87	2	CTC East	D-3	Clackamas County
CE208	Linear	OR 212 pedestrian facilities	SE Old Barn Lane	SE Regner Terrace	Improve pedestrian facilities and add lighting	0.79	2	CTC East	G-3	ODOT

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CE209	Linear	SE 232nd Dr shoulder widening	OR 212	OR 224	Widen shoulder based on operational and safety analysis during project development	1.9	2	CTC East	G-4	Clackamas County
CE210	Linear	SE 242nd Ave shoulder widening	County line	OR 212	Widen shoulder based on operational and safety analysis during project development	3.02	2	CTC East	H-2	Clackamas County
CE211	Linear	SE 190th Dr shoulder widening	County line	SE Tillstrom Road	Widen shoulder based on operational and safety analysis during project development	0.64	2	CTC East	F-1	Clackamas County
CE301	Linear	SE 92nd Ave pedestrian facilities	SE Johnson Creek Blvd	SE Clatsop St	Fill gaps in pedestrian facilities	0.31	3	CTC East	A-1	Cross-Jurisdictional
CE302	Point	SE 92nd Ave / SE Phillips Pl crosswalk	SE 92nd Ave	SE Phillips Pl	Install a pedestrian crossing near Phillips Pl		3	CTC East	A-1	Clackamas County
CE303	Linear	SE 92nd Ave sidewalk	SE Stevens Way	SE Hillcrest Rd	Construct sidewalks with ADA-compliant curb cuts on the east and west side of SE 92nd Ave between SE Hillcrest Rd and SE Stevens Way	0.25	3	CTC East	A-2	Clackamas County
CE304	Linear	SE Hillcrest St pedestrian facilities	SE 92nd Ave	SE Stevens Rd	Add pedestrian facilities	0.19	3	CTC East	A-2	Clackamas County
CE305	Linear	SE Evelyn St / SE Mangan Dr pedestrian facilities and bikeway	SE Jennifer St	SE Water Ave	Add pedestrian facilities and bikeways	0.24	3	CTC East	A-4	Clackamas County
CE306	Linear	SE 97th Ave / SE Mather Rd pedestrian facilities and bikeways	SE Lawnfield Rd	SE Summers Ln	Add bikeways and fill in gaps in pedestrian facilities	0.85	3	CTC East	B-3	Clackamas County
CE307	Linear	SE Mather Rd pedestrian facilities and bikeways	SE Summers Ln Rd	SE 122nd Ave	Add bikeways, pedestrian facilities and eastbound left turn lanes at Mather Rd / 122nd Ave	0.71	3	CTC East	B-3	Clackamas County
CE308	Linear	SE Valley View Terrace pedestrian facilities and bikeways	SE Sunnyside Rd	SE Otty Rd	Add bikeways and pedestrian facilities	0.45	3	CTC East	B-2	Clackamas County
CE309	Linear	SE 122nd Ave pedestrian facilities and bikeways	SE Sunnyside Rd	SE Timber Valley Dr	Add bikeways, fill in gaps in pedestrian facilities, add turn lanes at major intersections	0.24	3	CTC East	B-2	Clackamas County
CE310	Point	SE 122nd Ave/SE Summers Ln crosswalk	SE Summers Lane	SE 122nd Ave	Install new crosswalk		3	CTC East	B-3	Clackamas County
CE311	Linear	OR 212 shoulder widening	OR 224	SE Sunnyside Road	Add pedestrian and bicycle facilities	2.49	3	CTC East	E-4	ODOT
CE312	Linear	SE Bolivar Street Multi-Use Path	SE Eckert Lane	SE Anderegg Pkwy	Install pedestrian and bicycle connection via SE Bolivar St	0.1	3	CTC East	D-4	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CE313	Linear	SE Royer Rd shoulder widening	OR 212	OR 224	Widen shoulder based on operational and safety analysis during project development	2.59	3	CTC East	G-4	Clackamas County
CE314	Linear	SE 242nd Ave / Clackamas-Boring Hwy sidewalk	SE Hollyview Lane	Lewis and Clark Montessori Charter	Install sidewalk	0.4	3	CTC East	H-3	Cross-Jurisdictional
CE315	Linear	SE 257th Avenue shoulder widening	SE Hoffmeister Rd	OR 212	Widen shoulder based on operational and safety analysis during project development	0.32	3	CTC East	H-3	Clackamas County
CE316	Linear	SE Bohna Park Rd shoulder widening	SE Tillstrom Road	SE 242nd Avenue	Widen shoulder based on operational and safety analysis during project development	1.92	3	CTC East	G-2	Clackamas County
CE317	Linear	SE 222nd Dr shoulder widening	County line	OR 212	Widen shoulder based on operational and safety analysis during project development	3.02	3	CTC East	G-2	Clackamas County
CE318	Linear	SE Borges Rd shoulder widening	SE Tillstrom Road	SE 242nd Avenue	Widen shoulder based on operational and safety analysis during project development	2.93	3	CTC East	G-2	Clackamas County
CE319	Linear	SE Cheldelin Rd pedestrian facilities and bikeways	SE Foster Rd	SE 190th Dr	Add bikeways and pedestrian facilities	0.65	3	CTC East	E-1	Clackamas County
CE320	Linear	SE 162nd Ave pedestrian facilities and bikeways	SE Sager Rd	County line	Add bikeways, pedestrian facilities, turn lanes at major intersections	0.25	3	CTC East	D-1	Clackamas County

Figure 33 Linear and Spot Improvement Projects in Clackamas Town Center Area West



Clackamas Town Center West

<ul style="list-style-type: none"> ● Tier 1 (High-Priority Projects) ● Tier 2 (Medium-Priority Projects) ● Tier 3 (Low-Priority Projects) 	<ul style="list-style-type: none"> — Tier 1 (High-Priority Projects) — Tier 2 (Medium-Priority Projects) — Tier 3 (Low-Priority Projects) - - - Tier 1 (High-Priority Trail Projects) - - - Tier 2 (Medium-Priority Trail Projects) - - - Tier 3 (Low-Priority Trail Projects) City Boundaries 	<ul style="list-style-type: none"> - - - Tier 1 (High-Priority Trail Projects) - - - Tier 2 (Medium-Priority Trail Projects) - - - Tier 3 (Low-Priority Trail Projects)
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0 0.13 0.25 0.5 0.75 1 Miles

CLACKAMAS COUNTY

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Figure 34 Projects in Clackamas Town Center Area West

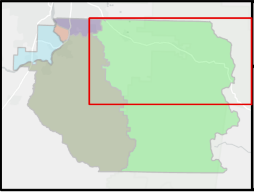
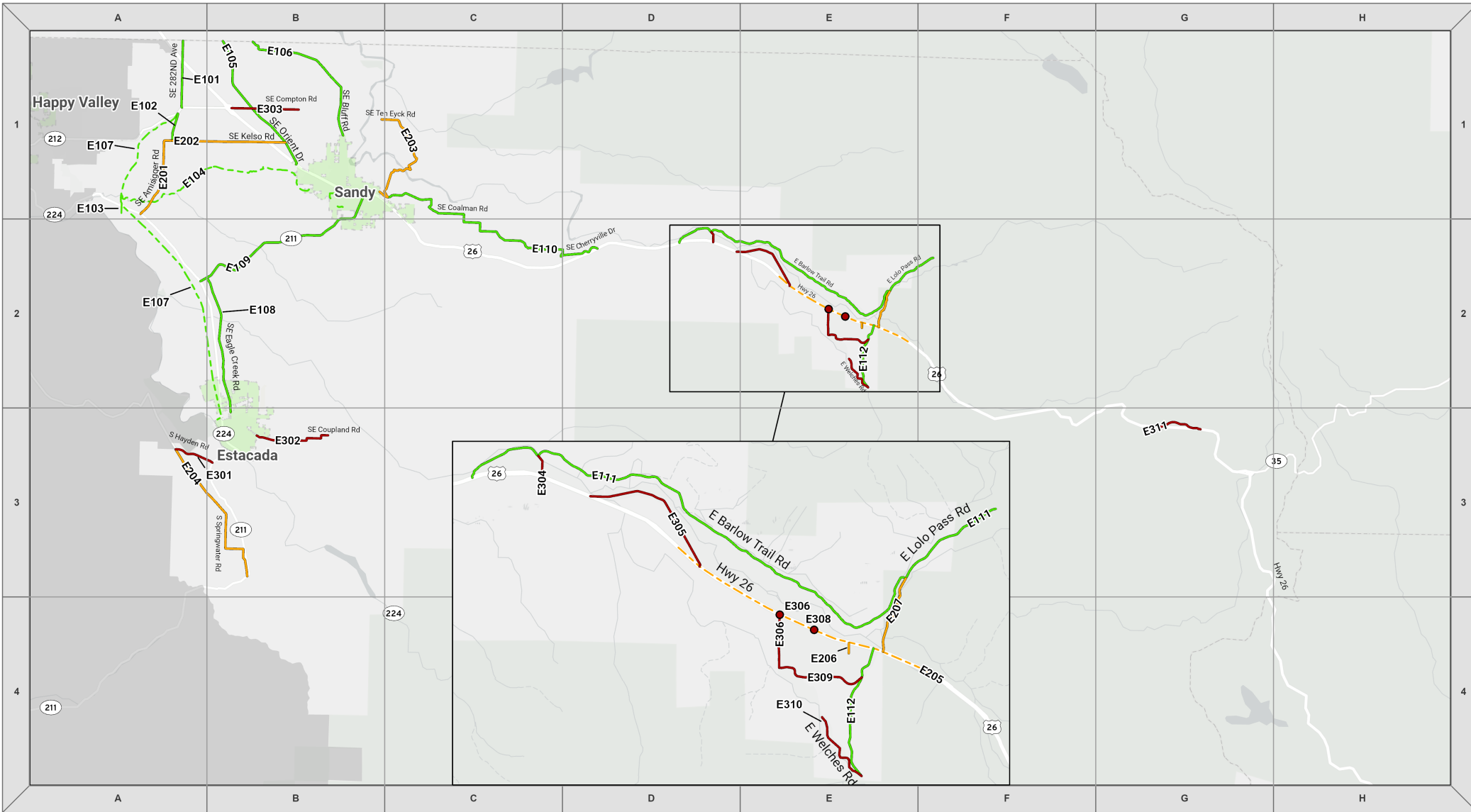
Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CW101	Linear	SE Alberta Ave pedestrian facilities and bikeways	SE Bell Ave	SE Flavel Dr	Add bikeways and pedestrian facilities	0.34	1	CTC West	C-1	Clackamas County
CW102	Linear	SE Clatsop St / SE Luther Rd pedestrian facilities and bikeways	SE 72nd Ave	SE Fuller Rd	Add pedestrian facilities and bikeways, consider associated intersection improvements at SE 82nd Ave	0.84	1	CTC West	D-1	Clackamas County
CW103	Linear	SE Fuller Rd pedestrian facilities and bikeways	SE Johnson Creek Blvd	County line	Fill in gaps in pedestrian facilities and bikeways	0.73	1	CTC West	E-1	Clackamas County
CW104	Linear	SE Johnson Creek Blvd pedestrian facilities and bikeway	SE Bell Ave	SE 92nd Ave	Fill gaps in pedestrian facilities and upgrade bikeway	1.19	1	CTC West	D-1	Clackamas County
CW105	Linear	SE Bell Ave pedestrian facilities and bikeways	SE Johnson Creek Blvd	SE May St	Add bikeways and pedestrian facilities	0.18	1	CTC West	C-1	Clackamas County
CW106	Point	SE Overland St/SE Bell Ave crosswalk	SE Bell Ave	SE Overland St	Install new crosswalk		1	CTC West	C-1	Clackamas County
CW107	Linear	SE Drew Ave / SE 73rd Ave / SE Otty St pedestrian facilities and bikeways	SE Bell Ave	SE 82nd Ave	Fill gaps in pedestrian facilities and bikeways	0.45	1	CTC West	D-2	Clackamas County
CW108	Linear	SE King Rd pedestrian facilities	Milwaukie city limits	SE Spencer Dr	Fill gaps in pedestrian facilities	1.79	1	CTC West	C-2	Clackamas County
CW109	Point	SE King Rd / SE 77th Ave crosswalk	SE King Rd	SE 77th Ave	Install new high visibility crosswalk and ADA compliant curb ramps, with potential RRFB or HAWK signal and green crossbike.		1	CTC West	D-2	Clackamas County
CW110	Linear	SE Monroe St / SE 72nd Ave / SE Thompson Rd pedestrian facilities	Linwood Ave	Fuller Rd	Add bikeways and pedestrian facilities	0.96	1	CTC West	C-3	Clackamas County
CW111	Point	SE Thompson Rd Radar Speed Monitor	SE Thompson Rd	SE 72nd Ave	Install radar speed monitor	0	1	CTC West	D-3	Clackamas County
CW112	Point	SE Thompson Rd / SE 74th Ave crosswalk	SE Thompson Rd	SE 74th Ave	Install school zone flashing beacon		1	CTC West	D-3	Clackamas County
CW113	Linear	SE Causey Ave bikeways	SE Fuller Rd	I-205	Add bikeways	0.6	1	CTC West	D-3	Clackamas County
CW114	Linear	SE 85th Ave pedestrian facilities and bikeways	SE Causey Ave	SE Monterey Ave	Add sidewalks and bikeways and consider crosswalk improvements	0.21	1	CTC West	E-3	Clackamas County
CW115	Linear	OR 224 Multi-Use Path	SE 17th Ave	I-205	Construct multi-use path as parallel route to OR	4.03	1	CTC West	B-4	ODOT
CW116	Linear	SE Harmony Rd pedestrian facilities and bikeways	Clackamas Community College	OR 224	Fill gaps in bikeways and pedestrian facilities and improve pedestrian crossings	1.25	1	CTC West	C-4	Clackamas County
CW117	Linear	SE Lake Rd pedestrian facilities	Milwaukie city limits	OR 224	Fill gaps in pedestrian facilities	0.74	1	CTC West	C-5	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CW118	Linear	SE Lake Rd pedestrian facilities and bikeways	Johnson Rd	Webster Rd	Fill gaps in pedestrian facilities and bikeways	0.58	1	CTC West	D-5	Clackamas County
CW119	Linear	Southwest Connector Multi-Use Path	North Clackamas Aquatic Center access road	SE 82nd Ave	Construct multi-use path	0.21	1	CTC West	D-4	Cross-Jurisdictional
CW120	Linear	SE 82nd Ave multi-use path connection	North Clackamas Regional Park Multi-Use Path (proposed)	SE Sunnybrook Blvd	Connect proposed North Clackamas Regional Park Multi-Use Path to bicycle and pedestrian facilities on SE Sunnybrook Blvd via 82nd	0.04	1	CTC West	D-4	ODOT
CW201	Linear	SE Flavel Dr bikeways	SE Alberta Ave	County line	Add bikeways	0.22	2	CTC West	C-1	Clackamas County
CW202	Linear	SE Bell Ave / SE Alberta St / SE 72nd Ave pedestrian facilities and bikeways	SE Johnson Creek Blvd	County line	Add bikeways and pedestrian facilities	0.55	2	CTC West	D-1	Clackamas County
CW203	Linear	SE Overland St pedestrian facilities and bikeways	SE 82nd Ave	SE Bell Ave	Add bikeways and pedestrian facilities	0.66	2	CTC West	D-2	Clackamas County
CW204	Linear	SE Otty Rd pedestrian facilities and bikeways	OR 213	SE 92nd Ave	Improve consistent with Fuller Road Station Plan including bikeways and pedestrian facilities. Install pedestrian crossing between Fuller Rd and I-205 and near 91st Ave	0.52	2	CTC West	E-2	Clackamas County
CW205	Linear	Phillips Creek Multi-Use Path	SE Causey Ave	North Clackamas Regional Parks Trail	Construct multi-use path in accordance with the Active Transportation Plan	2.13	2	CTC West	E-2	Clackamas County
CW206	Point	SE King Rd/SE Cook Ct crosswalk	SE King Rd	SE Cook Ct	Install new high visibility crosswalk and ADA compliant curb ramps, with potential RRFB or HAWK signal and green crossbike.		2	CTC West	D-2	Clackamas County
CW207	Point	SE Bell Ave / SE Sandview St crosswalk	SE Bell Ave	SE Sandview St	Install new crosswalk with RRFB	0	2	CTC West	C-2	Clackamas County
CW208	Point	SE King Rd/SE Stanley Ave crosswalk	SE Stanley Ave	SE King Rd	Install new crosswalk		2	CTC West	B-2	Cross-Jurisdictional
CW209	Linear	SE Monroe St pedestrian facilities and bikeways	SE 72nd Ave	SE Fuller Rd	Add bikeways and pedestrian facilities	0.44	2	CTC West	D-3	Cross-Jurisdictional
CW210	Point	SE Monroe St gap connection	SE Monroe St	SE 78th Ave / SE 79th Ave	Formalize a paved path connection for pedestrians and bicyclists		2	CTC West	D-3	Cross-Jurisdictional
CW211	Point	SE Thompson Road traffic calming	SE Thompson Rd	SE 74th Ave	Install traffic calming (speed cushions)		2	CTC West	D-3	Clackamas County
CW212	Point	SE Thompson Rd / SE Fuller Rd crosswalk	SE Fuller Rd	SE Thompson Rd	Install new crosswalk		2	CTC West	D-3	Clackamas County
CW213	Linear	SE Michael Dr pedestrian facilities	SE 72nd Ave	SE Fuller Ave	Fill gaps in pedestrian facilities	0.36	2	CTC West	D-3	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
CW214	Linear	SE Fuller Rd pedestrian facilities and crosswalks	SE Boyer Dr	SE Sunnyside Dr	Install pedestrian facilities and new crosswalks along segment	0.86	2	CTC West	D-3	Clackamas County
CW215	Point	SE Linwood Ave/SE Harmony Rd/SE Railroad Ave	SE Harmony Rd	SE Harmony Rd/SE Linwood Rd	Upgrade crosswalks and curb ramps for ADA compliance, install sidewalk to access bus stops. Install lead pedestrian intervals for cross signal.		2	CTC West	C-4	Cross-Jurisdictional
CW216	Linear	SE Lake Rd pedestrian facilities and bikeways	OR 224 west	Milwaukie city limits	Add pedestrian facilities and fill bikeway gaps	0.45	2	CTC West	B-4	Clackamas County
CW217	Linear	North Clackamas Regional Park Multi- Use Path	SE Linwood Ave	North Clackamas Park Complex	Construct multi-use path	0.76	2	CTC West	B-5	Cross-Jurisdictional
CW218	Linear	North Clackamas Regional Park Multi- Use Path	OR 213	North Clackamas Park Complex	Construct multi-use path	1.26	2	CTC West	C-5	Clackamas County
CW219	Linear	SE Johnson Rd pedestrian facilities and bikeways	SE Lake Rd	North Clackamas Park Trail	Fill gaps in pedestrian facilities and bikeways	0.5	2	CTC West	D-5	Cross-Jurisdictional
CW220	Linear	SE Sunnybrook Blvd bikeway	OR 213	I-205	Install protected bikeway, green crossbike treatments, and left turn boxes at major intersections	0.74	2	CTC West	E-4	Clackamas County
CW221	Linear	SE 84th Ave pedestrian facilities and bikeways	SE Sunnyside Rd	SE Sunnybrook Blvd	Fill in pedestrian facility gaps and bikeway	0.23	2	CTC West	E-4	Clackamas County
CW222	Point	I-205 / OR 212/224 Interchange bike connection	In vicinity of Roots Rd and McKinley Ave		Create new bikeway connections to facilitate movement from I-205 path to local street network		2	CTC West	E-7	ODOT
CW301	Linear	SE Johnson Creek Blvd pedestrian facilities and bikeway	SE 55th Ave	SE Bell Ave	Add bikeways and pedestrian facilities	0.74	3	CTC West	B-1	Clackamas County
CW302	Point	SE Linwood Ave / SE Overland St crosswalk	SE Linwood Ave	SE Overland St	Install enhanced crosswalk	0	3	CTC West	C-1	Clackamas County
CW303	Point	SE Alberta Ave/SE 70th Ave crosswalk	SE Alberta Ave	SE 70th Ave	Install new crosswalk		3	CTC West	C-1	Clackamas County
CW304	Linear	SE Cornwell Ave pedestrian facilities	OR 213	SE Fuller Rd	Add pedestrian facilities; connect to I-205 Multi-Use Path	0.31	3	CTC West	E-1	Clackamas County
CW305	Linear	SE Fuller Rd pedestrian facilities and bikeways	SE Otty St	SE Johnson Creek Blvd	Fill in gaps in pedestrian facilities and bikeways	0.38	3	CTC West	E-2	Clackamas County
CW306	Point	SE Otty St / SE 80th Ave crosswalk	SE Otty St	SE 80th Ave	Install new crosswalk		3	CTC West	D-2	Clackamas County
CW307	Linear	SE Boyer Dr / SE 85th Ave / SE Spencer Dr bikeway	OR 213	I-205 bike path	Add bikeways	0.47	3	CTC West	E-3	Clackamas County
CW308	Linear	72nd Ave Multi-Use Path	SE Thompson Rd	SE Harmony Rd	Construct multi-use path	0.78	3	CTC West	C-3	Cross-Jurisdictional
CW309	Linear	SE 93rd Ave bikeways	SE Sunnyside Rd	SE Sunnybrook Blvd	Upgrade bikeways	0.27	3	CTC West	E-4	Clackamas County

East County Area

Figure 35 Linear and Spot Improvement Projects in East County Area



East Area

- Tier 1 (High-Priority Projects)
- Tier 2 (Medium-Priority Projects)
- Tier 3 (Low-Priority Projects)
- Tier 1 (High-Priority Projects)
- Tier 2 (Medium-Priority Projects)
- Tier 3 (Low-Priority Projects)
- - - Tier 1 (High-Priority Trail Projects)
- - - Tier 2 (Medium-Priority Trail Projects)
- City Boundaries

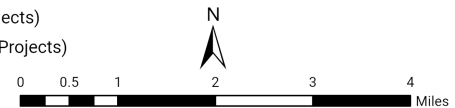


Figure 36 Projects in East County Area

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
E101	Linear	SE 282nd Ave paved shoulders	OR 212	County line	Add paved shoulders	1.99	1	East	A-1	Clackamas County
E102	Linear	SE Richey Rd paved shoulders	SE Kelso Rd	OR 212	Add paved shoulders	0.83	1	East	A-1	Clackamas County
E103	Linear	Barton Multi-Use Path	Cazadero Trail	Barton Park	New multi-use path along Bakers Ferry Rd	0.2	2	East	A-1	Clackamas County
E104	Linear	Tickle Creek Trail	Cazadero Trail	Sandy city limits	Construct multi-use path	7.8	1	East	B-1	Clackamas County
E105	Linear	SE Orient Dr paved shoulders	US 26	County line	Add paved shoulders	4.44	1	East	B-1	Clackamas County
E106	Linear	SE Bluff Rd paved shoulders	Sandy city limits	County line	Add paved shoulders	4.63	1	East	B-1	Clackamas County
E107	Linear	Cazadero Trail	Boring city limits	Estacada city limits	Construct multi-use path	10.75	1	East	A-2	Cross-Jurisdictional
E108	Linear	SE Eagle Creek Rd paved shoulders	OR 211	Estacada city limits	Add paved shoulders	4.11	1	East	B-2	Clackamas County
E109	Linear	OR 211 paved shoulders	OR 224	Sandy city limits	Add paved shoulders and bikeways	0.74	1	East	B-2	Cross-Jurisdictional
E110	Linear	SE Coalman Rd / SE Cherryville Dr paved shoulders	SE Ten Eyck Rd	US 26	Add paved shoulders	7.85	1	East	C-2	Clackamas County
E111	Linear	E Barlow Trail Rd / E Lolo Pass Rd paved shoulders	US 26	End of County-maintained road	Add paved shoulders	10.73	1	East	CALLOUT	Clackamas County
E112	Linear	E Salmon River Rd pedestrian facilities and bikeways	US 26	E Welches Rd	Add bikeways and pedestrian facilities	2	1	East	CALLOUT	Clackamas County
E201	Linear	SE Amisigger Rd / SE Kelso Rd paved shoulders	OR 224	SE Richey Rd	Add paved shoulders	2.64	2	East	A-1	Clackamas County
E202	Linear	SE Kelso Rd paved shoulders	SE Richey Rd	SE Orient Dr	Add paved shoulders	3.38	2	East	B-1	Clackamas County
E203	Linear	SE Ten Eyck Rd paved shoulders	SE Lusted Rd	Sandy city limits	Add paved shoulders	7.14	2	East	C-1	Clackamas County
E204	Linear	S Springwater Rd paved shoulders	S Hayden Rd	OR 211	Add paved shoulders	4.85	2	East	B-3	Clackamas County
E205	Linear	US 26 Multi-Use Path	E Miller Road	E Faubion Loop	Construct multi-use path parallel to US 26	4.33	2	East	CALLOUT	ODOT
E206	Linear	E Woodsey Way paved shoulders	US 26	East Cedar Hill Terrace	Construct/improve sidewalks connecting to the school	0.15	2	East	CALLOUT	Clackamas County
E207	Linear	E Lolo Pass Rd paved shoulders	US 26	E Barlow Trail Rd	Add paved shoulders	1.16	2	East	CALLOUT	Clackamas County
E301	Linear	S Hayden Rd paved shoulders	S Springwater Rd	OR 211	Add paved shoulders	1.2	3	East	A-3	Clackamas County
E302	Linear	SE Coupland Rd paved shoulders	Estacada city limits	SE Divers Rd	Add paved shoulders	2.3	3	East	B-3	Clackamas County
E303	Linear	SE Compton Rd paved shoulders	US 26	SE 352nd Ave	Add paved shoulders	2.01	3	East	B-1	Clackamas County
E304	Linear	E Sleepy Hollow Rd paved shoulders	E Barlow Trail Rd	US 26	Add paved shoulders	0.32	3	East	CALLOUT	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
E305	Linear	E Brightwood Loop Rd paved shoulders	US 26	US 26	Add paved shoulders	2.19	3	East	CALLOUT	Clackamas County
E306	Linear	E Arrah Wanna Blvd paved shoulders	US 26	E Fairway Ave	Add paved shoulders	0.77	3	East	CALLOUT	Clackamas County
E306	Point	US 26 / E Arrah Wanna Blvd crosswalk	US 26	E Arrah Wanna Blvd	Install enhanced crosswalk		3	East	CALLOUT	ODOT
E308	Point	US 26 / E Welches Rd crosswalk	US 26	E Welches Rd	Install enhanced crosswalk		3	East	CALLOUT	ODOT
E309	Linear	E Fairway Ave paved shoulders	E Arrah Wanna Blvd	E Salmon River Rd	Add paved shoulders	1.35	3	East	CALLOUT	Clackamas County
E310	Linear	E Welches Rd paved shoulders	E Birdie Ln	E Salmon River Rd	Add paved shoulders or multi-use path	1.16	3	East	CALLOUT	Clackamas County
E311	Linear	Government Camp Loop bikeways	US 26	US 26	Add bikeways	1.3	3	East	G-3	ODOT

Figure 38 Projects in Greater McLoughlin Area

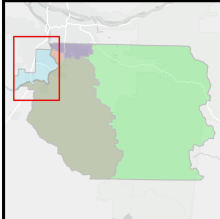
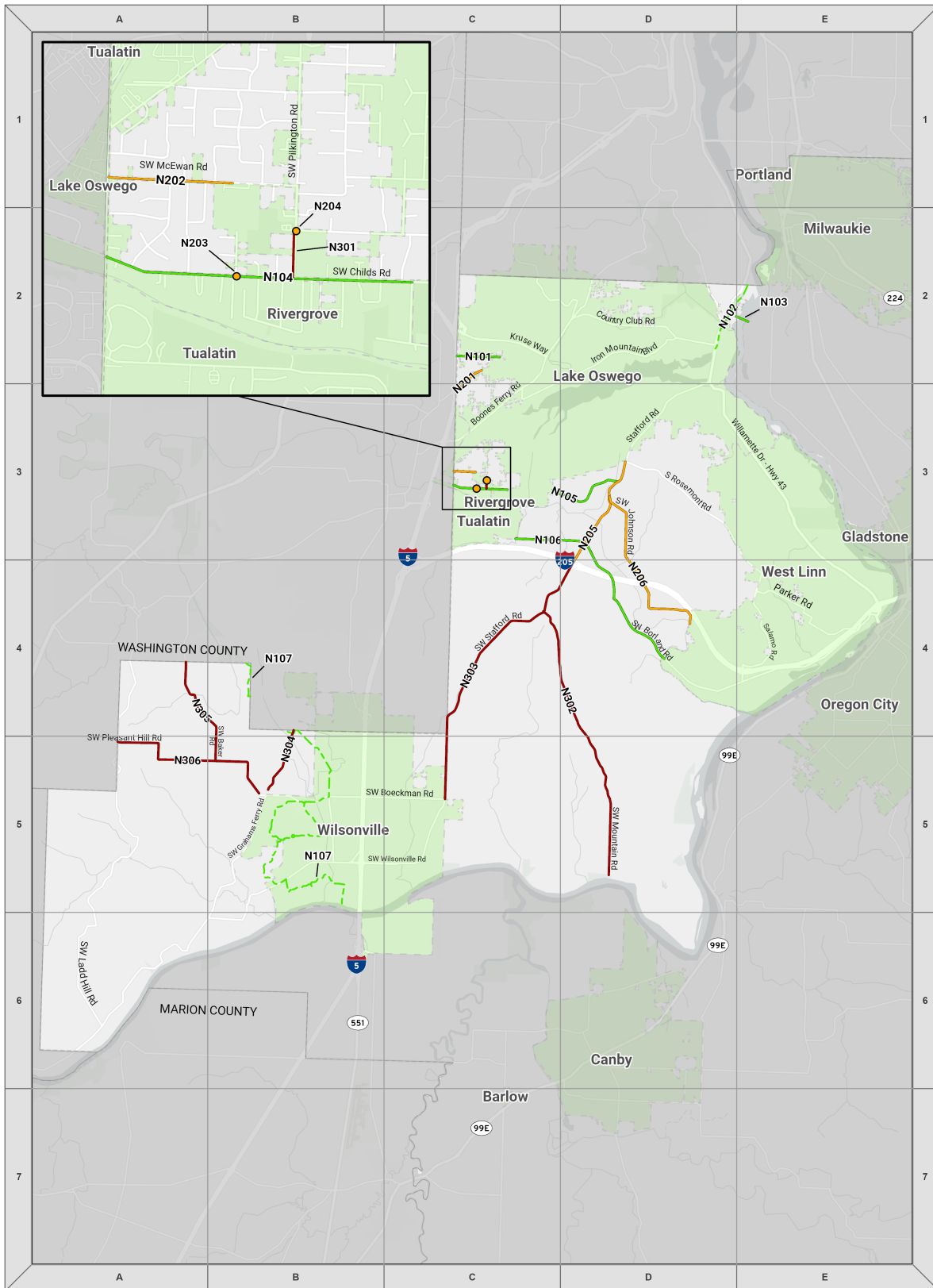
Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
M101	Point	SE Courtney Road / SE River Rd crosswalk	SE Courtney Ave	SE River Rd	Install new crosswalk		1	McLoughlin	A-3	Clackamas County
M102	Linear	SE Linden Ln shared street	SE Linden Pl	SE Courtney Ave	Install shared street	0.32	1	McLoughlin	B-3	Clackamas County
M103	Linear	OR 99E (McLoughlin Blvd) pedestrian facilities and bikeways	Milwaukie city limits	Gladstone city limits	Fill gaps in pedestrian facilities and bikeways, install additional crosswalks, install pedestrian refuge medians	3.75	1	McLoughlin	B-3	ODOT
M104	Linear	SE Arista Drive bikeway	SE Courtney Ave	Trolley Trail	Pilot for advisory bike lane or shared street/ greenway	0.65	1	McLoughlin	A-3	Clackamas County
M105	Linear	SE Oak Grove Blvd pedestrian facilities and bikeways	SE Oatfield Rd	SE River Rd	Fill gaps in pedestrian facilities and bikeways	0.96	1	McLoughlin	B-3	Clackamas County
M106	Linear	SE Concord Rd pedestrian facilities	SE River Rd	SE Oatfield Rd	Fill gaps in pedestrian facilities	0.97	1	McLoughlin	B-4	Clackamas County
M107	Linear	SE Harold Ave pedestrian facilities	SE Concord Rd	SE Roethe Rd	Add pedestrian facilities and traffic calming	0.8	1	McLoughlin	C-4	Clackamas County
M108	Linear	SE Oatfield Rd pedestrian facilities and bikeways	Milwaukie city limits	Gladstone city limits	Fill gaps in pedestrian facilities and bikeways	3.4	1	McLoughlin	C-4	Clackamas County
M109	Linear	SE Oetkin Rd / SE Naef Rd shared street	SE Thiessen Rd	SE River Rd	Implement shared street	1.97	1	McLoughlin	D-3	Clackamas County
M110	Linear	SE Thiessen Rd pedestrian facilities and bikeways	SE Oatfield Rd	SE Johnson Rd	Add bikeways and pedestrian facilities	2.1	1	McLoughlin	C-3	Clackamas County
M111	Point	SE Roethe Rd / SE River Rd crosswalk	SE River Rd	SE Roethe Rd	Install new crosswalk		1	McLoughlin	B-5	Clackamas County
M112	Linear	SE Roethe Rd pedestrian facilities and bikeways and traffic calming	SE River Rd	SE Oatfield Rd	Fill in gaps in bikeways and pedestrian facilities, add RRFB crosswalks, implement traffic calming	0.88	1	McLoughlin	C-5	Clackamas County
M113	Point	SE Roethe Rd / SE Austin St crosswalk	SE Roethe Rd	SE Austin St	Install new crosswalk with RRFB		1	McLoughlin	C-4	Clackamas County
M114	Point	OR 99E (McLoughlin Blvd) / SE Jennings Ave bike crossing	OR 99E / SE Jennings Ave / Trolley Trail intersection		Construct bike signal at SE Jennings / OR 99E / Trolley Trail intersection		1	McLoughlin	C-5	Clackamas County
M115	Linear	Jennings Southwest pedestrian facilities and bikeways	SE River Rd	OR 99E	Add bikeways and fill in gaps in pedestrian facilities	0.21	1	McLoughlin	C-5	Clackamas County
M116	Linear	Jennings Northeast pedestrian facilities and bikeways	SE Oatfield Rd	SE Webster Rd	Add bikeways and fill in gaps in pedestrian facilities	1.13	1	McLoughlin	D-5	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
M117	Linear	SE Clackamas Rd pedestrian facilities and bikeways	Ann-Toni Schreiber Park	SE McKinley Ave	Fill gaps in bikeways and pedestrian facilities, potentially utilizing Safe Routes to Parks funds	0.97	1	McLoughlin	E-4	Clackamas County
M118	Linear	SE Johnson Rd / SE McKinley Rd pedestrian facilities and bikeways	OR 224	I-205 Multi-Use Path	Fill in gaps in pedestrian facilities and bikeways	1.22	1	McLoughlin	E-4	Clackamas County
M201	Linear	SE River Rd pedestrian facilities and bikeways	Milwaukie city limits	SE Glen Echo Ave	Fill gaps in bikeways and pedestrian facilities	4.1	2	McLoughlin	A-2	Clackamas County
M202	Linear	SE Bluff Rd / SE Denny St / SE Laurie Ave / SE Courtney Ave shared street	SE Courtney Ave	SE River Rd	Install shared street to provide access to Rivervilla Park	0.48	2	McLoughlin	A-3	Clackamas County
M203	Point	SE Oak Grove Blvd / SE River Rd crosswalk	SE Oak Grove Blvd	SE River Rd	Install crosswalk		2	McLoughlin	A-3	Clackamas County
M204	Point	SE View Acres Road	SE Hill Rd	SE Oatfield Rd	Implement shared street		2	McLoughlin	C-3	Clackamas County
M205	Linear	SE Rusk Rd pedestrian facilities and bikeways	OR 224	SE Aldercrest Rd	Add bikeways and pedestrian facilities	0.57	2	McLoughlin	D-3	Clackamas County
M206	Linear	SE Webster Rd pedestrian facilities and bikeways	OR 224	Gladstone city limits	Fill gaps in bikeways and pedestrian facilities	1.91	2	McLoughlin	D-3	Clackamas County
M207	Linear	SE Naef Rd pedestrian facilities and bikeways	SE Oatfield Rd	SE River Rd	Add bikeways and pedestrian facilities	0.91	2	McLoughlin	C-4	Clackamas County
M208	Linear	SE Jennings Ave / SE Willamette Dr shared street	SE Morse St	SE River Rd	Implement shared street extending around SE Jennings St and SE Willamette Dr	0.65	2	McLoughlin	B-5	Clackamas County
M209	Linear	SE Jennings Ave pedestrian facilities	SE Morse St	SE River Rd	Add sidewalks extending west from SE River Rd to SE Morse St	0.09	2	McLoughlin	C-5	Clackamas County
M210	Linear	SE Hull Ave pedestrian facilities	SE Wilmot St	SE Tims View Ave	Fill gaps in pedestrian facilities	1.09	2	McLoughlin	D-5	Clackamas County
M301	Linear	SE Park Ave pedestrian facilities	SE River Rd	OR 99E (McLoughlin Blvd)	Fill sidewalk gaps	0.42	3	McLoughlin	B-2	Clackamas County
M302	Linear	SE Courtney Ave pedestrian facilities and bikeways	OR 99E (McLoughlin Blvd)	SE Oatfield Rd	Fill gaps in pedestrian facilities and bikeways	0.16	3	McLoughlin	B-3	Clackamas County
M303	Linear	SE Hill Rd pedestrian facilities and bikeways	SE Oatfield Rd	SE Thiessen Rd	Add bikeways and pedestrian facilities	1.17	3	McLoughlin	C-3	Clackamas County
M304	Linear	SE Kuehn Rd shared street	SE Aldercrest Road	SE Lake Road	Implement shared street	0.56	3	McLoughlin	C-2	Clackamas County
M305	Point	SE Hill Rd / SE View Acres Rd crosswalk	SE Hill Road	SE View Acres Road	Install new crosswalk with RRFB		3	McLoughlin	C-3	Clackamas County
M306	Point	SE Hill Rd / SE Bramble Ct crosswalk	SE Hill Rd	SE Bramble Ct	Install new crosswalk with RRFB		3	McLoughlin	C-3	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
M307	Point	SE River Rd / SE Creighton Ave crosswalk	SE River Rd	SE Creighton Ave	Install new crosswalk		3	McLoughlin	A-4	Clackamas County
M308	Linear	SE Risley Ave pedestrian facilities	SE Arista Dr	SE Hager Rd	Fill gaps in pedestrian facilities	0.88	3	McLoughlin	B-4	Clackamas County
M309	Linear	SE Portland Ave pedestrian facilities	SE Jennings Ave	SE Hull Ave	Fill gaps in pedestrian facilities	0.31	3	McLoughlin	D-5	Clackamas County
M310	Linear	SE McNary Rd / SE Mabel Ave pedestrian facilities and bikeways	SE Oatfield Rd	SE Webster Rd	Add bikeways and pedestrian facilities	0.93	3	McLoughlin	D-4	Clackamas County
M311	Point	SE Webster Rd radar speed sign	SE Webster Rd	100 ft north of SE Bixel Way	Install permanent radar speed sign		3	McLoughlin	D-4	Clackamas County
M312	Linear	SE Strawberry Ln pedestrian facilities and bikeways	SE Webster Rd	SE 82nd Dr	Add pedestrian facilities and fill bikeway gaps	0.74	3	McLoughlin	E-5	Clackamas County

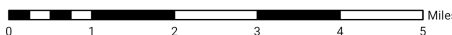
Northwest County Area

Figure 39 Linear and Spot Improvement Projects in Northwest County Area



Northwest County

- Tier 1 (High-Priority Projects)
- Tier 2 (Medium-Priority Projects)
- Tier 3 (Low-Priority Projects)
- Tier 1 (High-Priority Projects)
- Tier 2 (Medium-Priority Projects)
- Tier 3 (Low-Priority Projects)
- Tier 1 (High-Priority Trail Projects)
- City Boundaries



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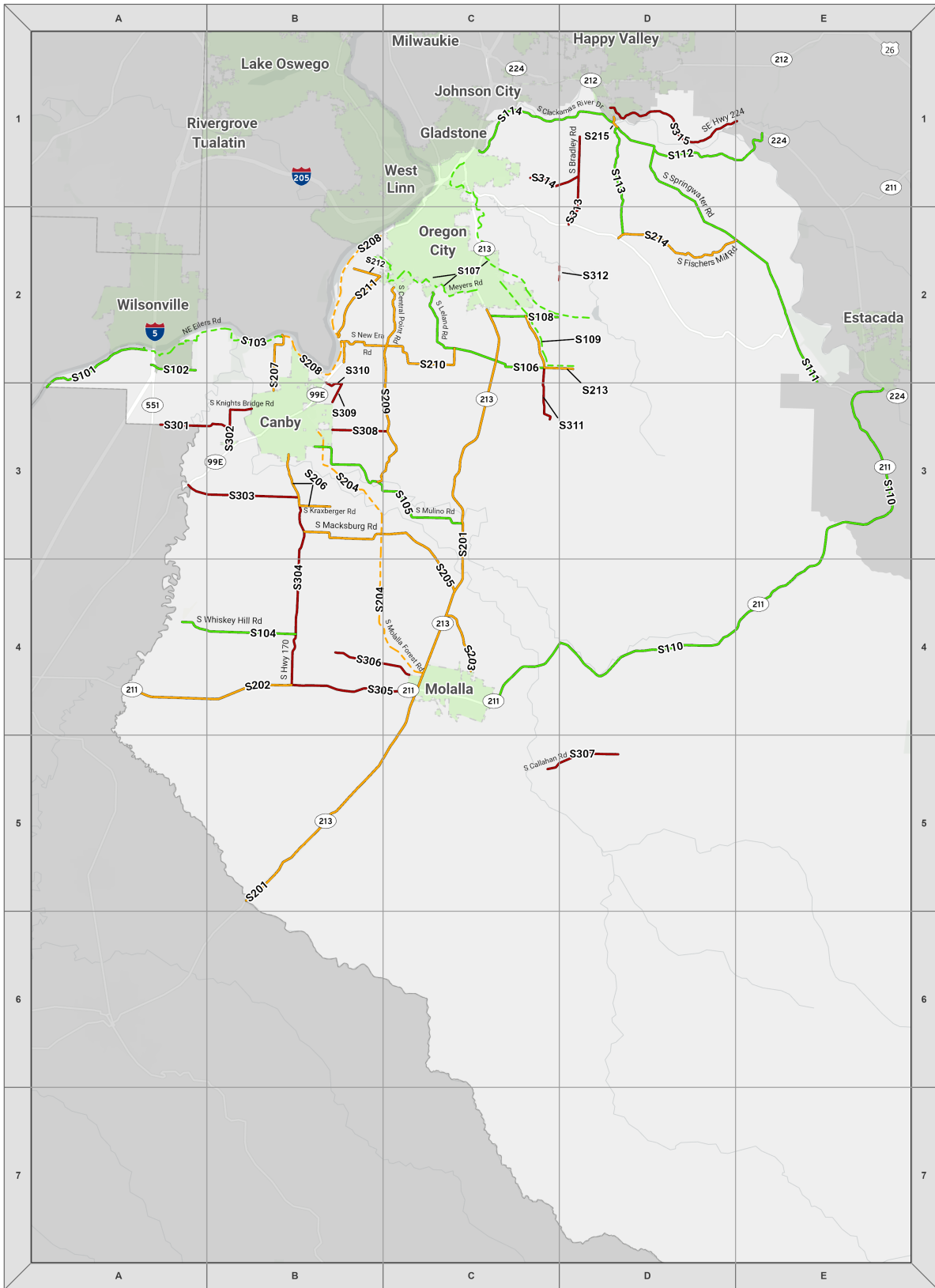
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Figure 40 Projects in Northwest County Area

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
N101	Linear	Bonita Rd pedestrian facilities and bikeways	Carman Dr	I-5	Add bikeways and pedestrian facilities	0.65	1	Northwest	C-2	Clackamas County
N102	Linear	Willamette River Greenway	Lake Oswego north	County line	Construct multi-use path	1.11	1	Northwest	D-2	ODOT
N103	Linear	Oak Grove to Lake Oswego bridge	Oak Grove	Lake Oswego	Construct bike/pedestrian crossing over the Willamette River	0.2	1	Northwest	E-2	Cross-Jurisdictional
N104	Linear	SW Childs Rd pedestrian facilities and bikeways	County line	Sycamore Ave	Fill in gaps in pedestrian facilities and bikeways	0.83	1	Northwest	CALLOUT	Clackamas County
N105	Linear	SW Childs Rd pedestrian facilities and bikeways	SW Stafford Rd	Lake Oswego city limits	Add pedestrian and bicycle facilities	1.19	1	Northwest	D-3	Clackamas County
N106	Linear	SE Borland Rd pedestrian facilities and bikeways	Tualatin city limits	West Linn city limits	Add pedestrian facilities and bikeways	3.3	1	Northwest	C-3	Clackamas County
N107	Linear	Tonquin Trail	Willamette River	County line	Construct multi-use path pursuant to the Ice Age Tonquin Trail Master Plan	7.73	1	Northwest	B-5	Clackamas County
N201	Linear	Carman Dr pedestrian facilities and bikeways	Lake Oswego city limits	SW Roosevelt Ave	Add pedestrian and bicycle facilities	0.4	2	Northwest	C-2	Clackamas County
N202	Linear	SW McEwan Rd pedestrian facilities	SW 65th Ave	SW Benfield Ave	Install sidewalks from Longfellow Ave to 65th Ave along south side of road	0.41	2	Northwest	CALLOUT	Clackamas County
N203	Point	SW Childs Rd / SW Benfield Ave crosswalk	SW Childs Road	SW Benfield Ave	Install new crosswalk with RRFB		2	Northwest	CALLOUT	Clackamas County
N204	Point	Pilkington Rd / SW Dawn St crosswalk	Pilkington Rd	SW Dawn St	Install new crosswalk with RRFB		2	Northwest	CALLOUT	Clackamas County
N205	Linear	Stafford Rd paved shoulders	Rosemont Rd	I-205	Add paved shoulders	1.83	2	Northwest	D-3	Clackamas County
N206	Linear	SW Johnson Rd paved shoulders	SW Stafford Rd	West Linn city limits	Add paved shoulders	2.87	2	Northwest	D-4	Clackamas County
N301	Linear	Pilkington Rd pedestrian facilities	SW Dawn St	SW Childs Rd	Add pedestrian facilities	0.13	3	Northwest	CALLOUT	Clackamas County
N302	Linear	SW Mountain Rd paved shoulders	SW Stafford Rd	Canby Ferry	Add paved shoulders	4.28	3	Northwest	D-4	Clackamas County
N303	Linear	Stafford Rd paved shoulders	I-205	Boeckman Rd / SW Advance Rd	Add paved shoulders	4.47	3	Northwest	C-4	Clackamas County
N304	Linear	SW Grahams Ferry Rd paved shoulders	County line	SW Westfall Rd	Add paved shoulders	1.01	3	Northwest	B-5	Clackamas County
N305	Linear	SW Baker Rd paved shoulders	SW Tooze Rd	County line	Add paved shoulders	1.71	3	Northwest	A-4	Clackamas County
N306	Linear	SW Pleasant Hill Rd / SW McConnell Rd / SW Tooze Rd paved shoulders	SW Ladd Hill Rd	SW Westfall Rd	Add paved shoulders	2.76	3	Northwest	A-5	Clackamas County

South County Area

Figure 41 Linear and Spot Improvement Projects in South County Area



South Area

— Tier 1 (High-Priority Projects)	- - - Tier 1 (High-Priority Trail Projects)	 City Boundaries
— Tier 2 (Medium-Priority Projects)	- - - Tier 2 (Medium-Priority Trail Projects)	
— Tier 3 (Low-Priority Projects)	- - - Tier 3 (Low-Priority Trail Projects)	

Miles

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Figure 42 Projects in South County Area

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
S101	Linear	Butteville Rd NE paved shoulders	Boones Ferry Rd NE	County line	Add paved shoulders	3.28	1	South	A-2	Clackamas County
S102	Linear	SE Miley Rd paved shoulders	Butteville Rd NE	NE Eilers Rd	Add paved shoulders	1.46	1	South	A-2	Clackamas County
S103	Linear	Willamette River Greenway	Canby Ferry	Wilsonville city limits	Construct multi-use path	5.08	1	South	B-2	Clackamas County
S104	Linear	S Barnards Rd / S Whiskey Hill Rd paved shoulders	Meridian Rd	OR 170 (Canby-Marquam Hwy)	Add paved shoulders	3.41	1	South	B-4	Clackamas County
S105	Linear	S Mulino Rd / SE 13th Ave paved shoulders	Canby city limits	OR 213	Add paved shoulders	5.88	1	South	B-3	Clackamas County
S106	Linear	S Leland Rd paved shoulders	Oregon City line	S Beavercreek Rd	Add paved shoulders	4.88	1	South	C-2	Clackamas County
S107	Linear	Newell Creek Trail / Oregon City Loop Trail	Loop around the perimeter of Oregon City		Construct Oregon City Loop Trail and Newell Creek Trail in accordance with the Active Transportation Plan	16.81	1	South	C-2	Cross-Jurisdictional
S108	Linear	S Henrici Rd paved shoulders	OR 213	S Ferguson Rd	Add paved shoulders and turn lanes at major intersections	1.98	1	South	C-2	Clackamas County
S109	Linear	Beavercreek Multi-Use Path	Loder Rd	S Yeoman Rd	Construct multi-use path consistent with the Beavercreek Road Concept Plan	3.73	1	South	C-2	Clackamas County
S110	Linear	OR 211 paved shoulders	Molalla city limits	S Hayden Rd	Add paved shoulders	19.65	1	South	D-4	ODOT
S111	Linear	S Springwater Rd paved shoulders	S Clackamas River Dr	S Hayden Rd	Add paved shoulders	1.34	1	South	E-2	Clackamas County
S112	Linear	S Bakers Ferry Rd paved shoulders	S Springwater Rd	OR 224	Add paved shoulders	3.98	1	South	E-1	Clackamas County
S113	Linear	Carver Rd / S Hattan Rd paved shoulders	S Redland Schools Rd	S Springwater Rd	Add paved shoulders	3.31	1	South	D-2	Clackamas County
S114	Linear	S Clackamas River Dr bikeway	Oregon City limits	S Springwater Rd	Add bikeway	4.94	1	South	C-1	Clackamas County
S201	Linear	OR 213 pedestrian facilities and bikeways	Oregon City city limits	County line	Fill bikeway and pedestrian facility gaps	18.66	2	South	C-3	ODOT
S202	Linear	OR 211 paved shoulders	County line	OR 170 (Canby-Marquam Hwy)	Add paved shoulders	4.96	2	South	B-4	ODOT
S203	Linear	S Molalla Ave paved shoulders	OR 213	Molalla city limits	Add paved shoulders	2	2	South	C-4	Clackamas County
S204	Linear	Molalla Forest Rd Multi-Use Path	Canby city limits	Molalla city limits	Construct multi-use path	8.68	2	South	B-4	Clackamas County
S205	Linear	S Macksburg Rd paved shoulders	OR 170 (Canby-Marquam Hwy)	OR 213	Add paved shoulders	5.46	2	South	C-4	Clackamas County
S206	Linear	OR 170 (Canby-Marquam Hwy) / S Kraxberger Rd paved shoulders	Canby city limits	S Harms Rd	Add paved shoulders	2.47	2	South	B-3	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
S207	Linear	N Holly St / NE 37th Ave / N Locust St / Ferry Rd paved shoulders	NE Territorial Rd	Canby Ferry	Add paved shoulders	1.88	2	South	B-2	Clackamas County
S208	Linear	Willamette River Greenway	Oregon City city limits	Canby city limits	Construct multi-use path	6.13	2	South	B-2	ODOT
S209	Linear	S Central Point Rd paved shoulders	Parrish Rd	S Mulino Rd	Add paved shoulders	6.22	2	South	C-3	Clackamas County
S210	Linear	S New Era Rd paved shoulders	OR 99E	S Leland Rd	Add paved shoulders	4.94	2	South	C-2	Clackamas County
S211	Linear	South End Rd paved shoulders	Oregon City city limits	OR 99E	Add paved shoulders	1.54	2	South	B-2	Clackamas County
S212	Linear	S Beutel Rd shared street	South End Rd	S Beutel Rd	Install shared street	0.79	2	South	B-2	Clackamas County
S213	Linear	Beavercreek Rd paved shoulders	Henrici Rd	Yeoman Rd/ Steiner Rd	Add paved shoulders in accordance with the Active Transportation Plan.	2.47	2	South	C-2	Clackamas County
S214	Linear	S Fischers Mill Rd paved shoulders	S Redland Rd	S Springwater Rd	Add paved shoulders	3.94	2	South	D-2	Clackamas County
S215	Linear	S Springwater Rd pedestrian facilities	OR 224	S Hattan Rd	Add pedestrian facilities	0.35	2	South	D-1	Clackamas County
S301	Linear	S Knights Bridge Rd / S Barlow Rd / S Arndt Rd bikeway	Canby boundary	S Airport Rd	Fill in gaps in bikeway	3.27	3	South	A-3	Clackamas County
S302	Linear	S Barlow Rd paved shoulders	S Arndt Rd	OR 99E	Add paved shoulders	0.67	3	South	B-3	Clackamas County
S303	Linear	S Lone Elder Rd paved shoulders	County line	OR 170 (Canby-Marquam Hwy)	Add paved shoulders	3.3	3	South	B-3	Clackamas County
S304	Linear	OR 170 (Canby-Marquam Hwy) paved shoulders	S Kraxberger Rd	OR 211	Add paved shoulders	4.56	3	South	B-4	Clackamas County
S305	Linear	OR 211 paved shoulders	OR 170 (Canby-Marquam Hwy)	Molalla city limits	Add paved shoulders	3.39	3	South	B-4	ODOT
S306	Linear	Toliver Rd paved shoulders	S Dryland Rd	Molalla city limits	Add paved shoulders	2.32	3	South	C-4	Clackamas County
S307	Linear	Callahan Rd S / S Ramsby Rd paved shoulders	S Dickey Prairie Rd	S Fernwood Rd	Add paved shoulders and turn lanes at major intersections	2.28	3	South	D-5	Clackamas County
S308	Linear	S Township Rd paved shoulders	S Central Point Rd	Canby city limits	Add paved shoulders	1.61	3	South	B-3	Clackamas County
S309	Linear	S Haines Rd paved shoulders	S Bremer Rd	SE Territorial Rd	Add paved shoulders	0.61	3	South	B-3	Clackamas County
S310	Linear	SE Territorial Rd bikeways	S Haines Rd	OR 99E	Add bikeways	0.51	3	South	B-2	Clackamas County
S311	Linear	S Kamrath Rd paved shoulders	S Leland Rd	S Spangler Rd	Add paved shoulders	1	3	South	C-3	Clackamas County
S312	Linear	Ferguson Multi-Use Path	S Thayer Rd	S Ferguson Rd	Construct multi-use path to connect Ferguson Rd to Thayer Rd	0.51	3	South	C-2	Cross-Jurisdictional
S313	Linear	S Bradley Rd paved shoulders	S Gronlund Rd	S Redland Rd	Add paved shoulders	2.68	3	South	D-1	Clackamas County

Project ID	Type	Name	Extent 1	Extent 2	Description	Miles	Tier	Area	Map Locator	Jurisdiction
S314	Linear	S Holcomb Blvd paved shoulders	S Edenwild Ln	S Bradley Rd	Add paved shoulders	1.56	3	South	C-1	Clackamas County
S315	Linear	OR 224 paved shoulders	S Springwater Rd	SE 232nd Dr	Add paved shoulders	4.71	3	South	D-1	ODOT

6.4 Shared Streets

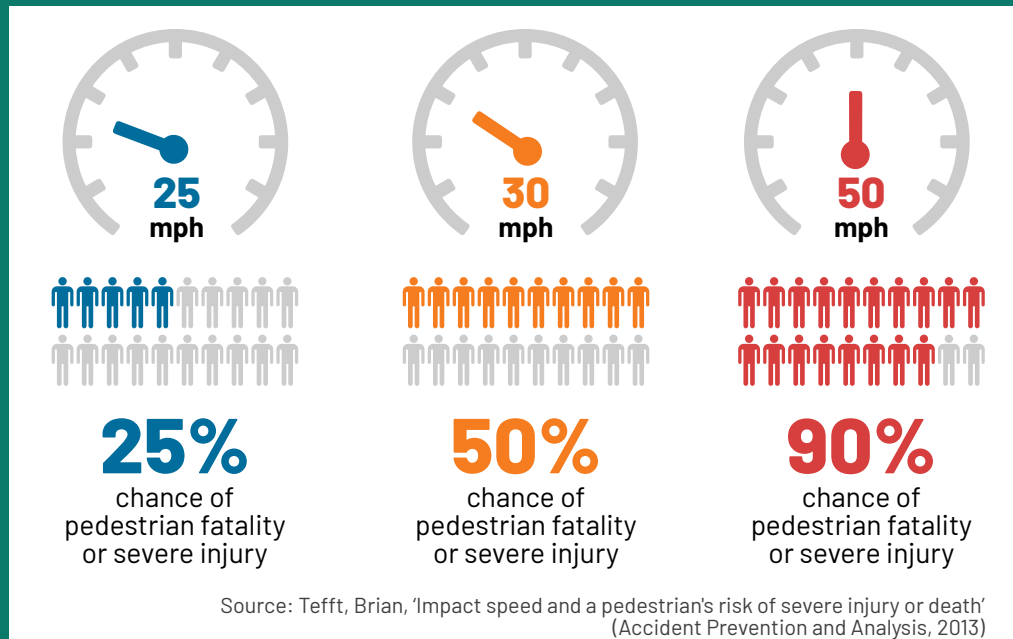
Shared Streets help connect the active transportation network by encouraging slow speeds that make walking and bicycling on streets safer.

WBC identifies candidate Shared Streets, which would have speed limits reduced to 20 mph to enhance public health, equity, and safety, particularly on streets connecting neighborhoods, shopping areas, and parks.*

Why does speed matter?

Public feedback and experience from Clackamas County Planning and Traffic Engineering indicates vehicle speeding is an issue on roadways throughout the county.

Having the ability to set the speed limit on certain local roads under ORS 810.180 provides an opportunity to designate streets as places to walk, ride bicycles, roll, and recreate, especially in places without dedicated walkways or bike lanes.



Shared Streets do not form a network on their own, but rather constitute one project type among the many walking and biking improvements noted in this plan.

Cities around the country installed Shared Streets during the COVID-19 pandemic to address many active transportation challenges including:

- Creating more space for people to safely walk or bike.
- Facilitating essential trips and access to essential services.
- Limiting overcrowding in popular public spaces, on multiuse paths, or on narrow sidewalks.
- Addressing non-motorized network gaps.
- Slowing vehicle speeds.

*Oregon Statute ORS 810.180(10) provides agencies the authority to post 5 mph below that statutory when certain criteria are met.

Figure 43 Shared Streets Screening and Selection Process



The development of the draft Shared Street network consisted of a three-step process. First, initial screening to identify eligible Shared Street segments was conducted. Local roads posted at 25 mph with average daily traffic (ADT) less than 2,000 and no transit service were identified as candidate Shared Streets. Second, in conjunction with Engagement Milestone #2, the public was surveyed and asked to identify candidate locations. 41 people responded to Shared Street survey, with 90% supportive of the program. Through this process, 26 candidate Shared Streets segments were identified (see map and table on following pages). Future Step 3: Implementation will consist of applying screening factors such as connectivity to significant destinations and alignment with a Safe Routes to School project to identify the highest priority segments. (See Figure 43). As funding becomes available, the priority streets from Step 3 will be implemented first. Potential treatments are shown in Figure 44.

Figure 44 Shared Streets Elements

Primary Shared Street Elements	Feature Description
	<p>Pavement marking</p> <p>Pavement markings allow roadway users to fully understand the purpose of the road, the primary user of the road, and any information about special conditions ahead. The pavement marking in the photo to the left shows roadway users that this is a Shared Street where people on bikes and on foot share the road with people driving.</p>
	<p>Entry treatment</p> <p>Entry treatments such as signs or traffic cones give roadway users information about the Shared Street before entering.</p>
	<p>Signs along Shared Streets</p> <p>Shared Streets signs remind people of the purpose of the roadway.</p>

Additional Elements for Consideration	Feature Description
	<p>Speed hump</p> <p>Speed humps are small, raised areas built across a road to slow vehicles.</p>
	<p>Motor vehicle diversion</p> <p>Motor vehicle diversions lower traffic volumes by limiting vehicle entry or turns, while people walking and rolling can continue to move along the street without a detour.</p>
	<p>Mini traffic circles</p> <p>Mini traffic circles are small islands that must be maneuvered around by motor vehicles to go straight or turn. They are installed to reduce traffic speeds.</p>
	<p>Trees and landscaping</p> <p>Landscaping is used to visually narrow the width of the roadway and sometimes limit where vehicles can enter. Landscaping is used to slow or reduce traffic.</p>
	<p>Wayfinding signs</p> <p>Wayfinding signs point people walking, biking, and rolling toward key destinations.</p>

Figure 45 Shared Streets Candidate Locations

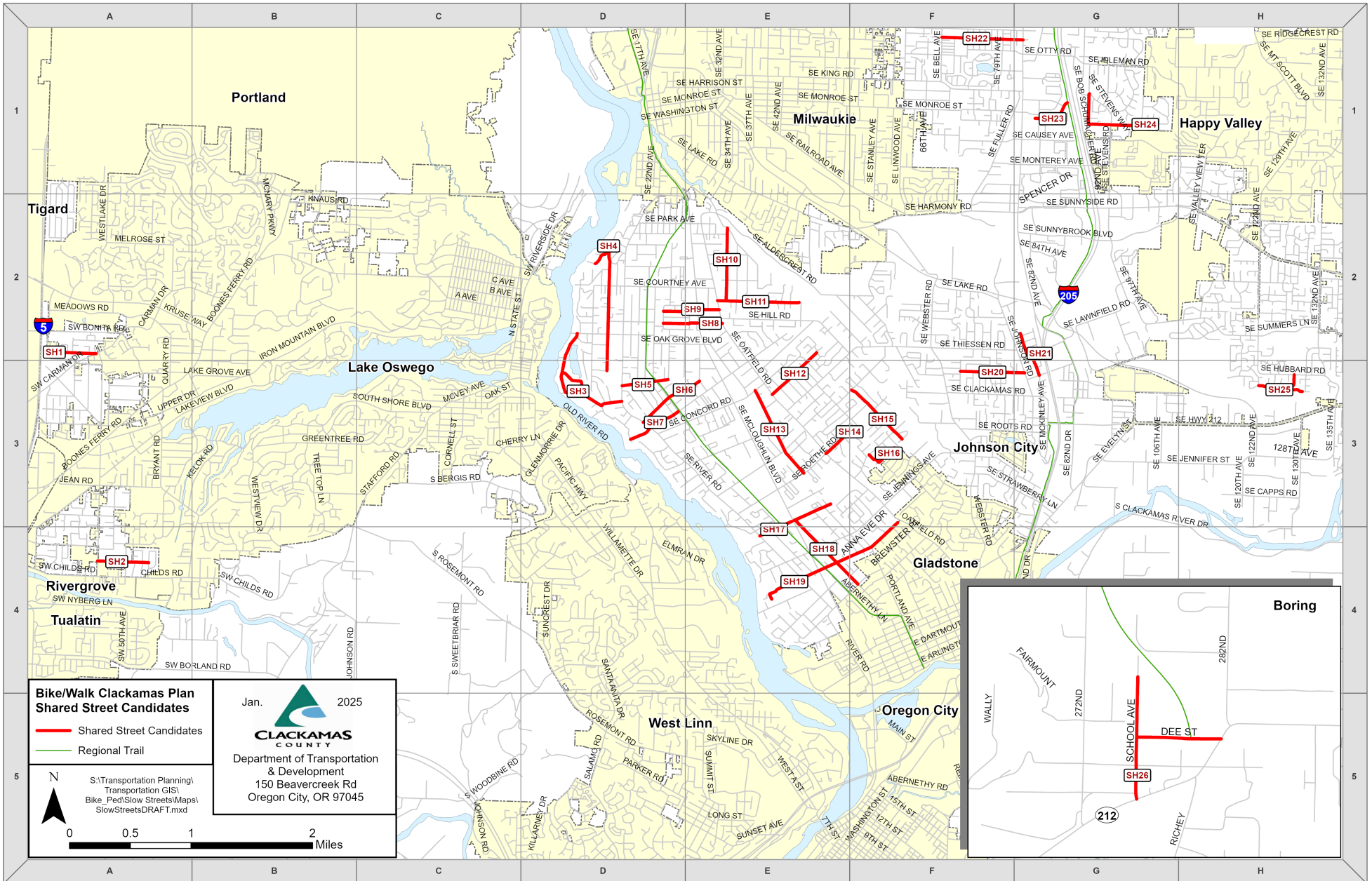


Figure 45 shows Shared Streets candidate locations in the County. Figure 46 details these candidate locations. These corridors were selected using the screening factors in Figure 44. Additional streets may be added as changes in land use occur throughout the County.

Figure 46 Shared Street Candidate List

Shared Street Candidate Identifier	Street Name(s)	Extent 1	Extent 2	Miles	Area	Map Locator
SH1	Burma Rd	Bangy Rd	Carman Dr	0.39	Northwest	A-3
SH2	Dawn St	SW Pilkington Rd	SW Indian Springs Rd	0.42	Northwest	A-4
SH3	SE River Forest Dr / SE River Forest Ct / SE River Forest Rd	SE River Rd	SE Oak Grove Blvd	1.30	McLoughlin	D-3
SH4	SE Laurie Ave	SE Anspach St	End of County Maintenance	1.13	McLoughlin	D-2
SH5	SE Creighton Ave	SE Arista Dr	SE Linden Ln	0.37	McLoughlin	D-3
SH6	SE Swain Ave	SE River Rd	SE East Ave	0.57	McLoughlin	D-3
SH7	SE Risley Ave	SE Oak Shore Ln	Trolley Trail	0.47	McLoughlin	D-3
SH8	SE Maple St	SE Bunnell St	SE Oatfield Ave	0.47	McLoughlin	E-2
SH9	SE Chestnut St / SE Pine Ln	SE Bunnell St	SE Oatfield Ave	0.43	McLoughlin	E-2
SH10	SE Briggs St	SE Pinehurst Ave	SE Nixon Ave	0.60	McLoughlin	D-2
SH11	SE Pinehurst Ave	SE Oatfield Rd	SE Piper Cub Way	0.67	McLoughlin	E-2
SH12	SE Robin Rd	SE Oatfield Rd	SE Wanda Dr	0.50	McLoughlin	E-3
SH13	SE Harold Ave	SE Roethe Rd	SE Concord Rd	0.79	McLoughlin	E-3
SH14	SE Roethe Rd	SE Oatfield Rd	SE Byron Dr	0.32	McLoughlin	E-3
SH15	SE Cordova Ct / SE Norma Rd	SE Oetkin Rd	SE Norma Cir	0.58	McLoughlin	F-3
SH16	SE Anna Eve Dr / SE Brewster Pl	SE McNary Rd	End of County Maintenance	0.28	McLoughlin	F-3
SH17	SE Boardman Ave	SE River Rd	SE Boardman Ct	0.62	McLoughlin	E-4
SH18	SE Addie St	SE Boardman Ave	Gladstone city limits	0.74	McLoughlin	E-4
SH19	SE Hull Ave	SE Water Edge Way	End of County Maintenance	1.27	McLoughlin	E-4
SH20	SE Cypress Ave	SE Johnson Rd	SE Del Rey Ave	0.53	McLoughlin	F-3
SH21	SE Orchid Ave	SE Carnation St	SE Jannsen Rd	0.37	McLoughlin	G-2
SH22	SE Lamphier St	SE Bell Ave	SE 82nd Ave	0.67	CTC West	F-1
SH23	SE Spencer Dr	SE 85th Ave	I-205 Multi-Use Path	0.33	CTC West	G-1
SH24	SE 92nd Ave / SE Hillcrest Rd	SE Stevens Way	SE 102nd Ave	0.68	CTC East	G-1
SH25	SE Bluff Dr / SE 128th Ave	SE Hubbard Rd	SE 130th Dr / SE Lostine Dr	0.50	CTC East	H-3
SH26	SE Dee St / SE School Ave	OR212	OR212 / Kipers Ln	0.73	East	

7. PROGRAM RECOMMENDATIONS

While infrastructure improvements are an important part of making walking and biking safer and more comfortable, supportive programs help build awareness, use, and safety of these investments.





7.1 Proposed New Programs

Clackamas County already has programs that support walking and bicycling, but several new programs could help address community desires and complement infrastructure investments. Potential programs for the WBC plan are categorized into three groups: events, campaigns, and mode shift. Not all programs need funding and resources in place to be included in the plan; some programs may be included in the plan for future implementation.

Program success is amplified when partnerships are leveraged. These partnerships could include local jurisdiction planning and public works departments, police and sheriff departments, Clackamas County Public Health, and advocacy/support organizations. Existing county programs are described in **Appendix G: Technical Memorandum 6: Supportive Programs.**



Figure 47 Programs

	Program	County Role	Level of Effort	Impact
Events	 <p>Open Streets</p> <p>Events that close a portion of a road to cars to allow people to walk, bike, skateboard, scoot, and have fun with friends, family, and neighbors</p>	<p>Lead/Support</p> <p>Partner with nonprofits</p>	<p>Medium-High</p>	<p>High</p>
	 <p>School Zone Safety</p> <p>Promote safe driving behaviors for parents and other adults, and safe walking and bicycling access to schools for students</p>	<p>Lead</p> <p>Partner with local agencies and nonprofits</p>	<p>Low</p>	<p>Medium</p>
Campaigns	 <p>Bicycle-Friendly Drivers</p> <p>Build driver awareness of how to safely drive on roads with bike lane and other facilities, and rights and responsibilities of people bicycling and driving</p>	<p>Lead</p> <p>Partner with local agencies and nonprofits</p>	<p>Medium</p>	<p>Low</p>
	 <p>No Parking in Bike Lane</p> <p>Target illegal car/truck parking in bike lanes to ensure lanes remain open and usable to people bicycling</p>	<p>Lead</p> <p>Partner with local agencies and nonprofits</p>	<p>Low</p>	<p>Low</p>

	Program	County Role	Level of Effort	Impact
Mode Shift	 <p>Micromobility Offered shared services -- such as short-term bike, electric bike, or electric scooter rentals -- to give people travel options for short trips</p>	<p>Lead/Support</p> <p>Partner with Metro, local agencies</p>	<p>High</p>	<p>Medium</p>
	 <p>Bicycle and Pedestrian Counts Gather data about the number of people walking and biking at key locations to learn what's working and what needs to be done</p>	<p>Lead/Support</p> <p>Partner with Metro, local agencies</p>	<p>Medium-High</p>	<p>High</p>
	 <p>Street Painting Program Develop street painting program to allow for neighborhood groups to install street murals to foster lower speeds and solidify shared streets</p>	<p>Lead</p> <p>Partner with nonprofits</p>	<p>Medium</p>	<p>Medium</p>



8. Bicycle and Pedestrian Facility Design Toolkit

A Bicycle and Pedestrian Facility Design Toolkit provides a framework for county staff to identify and design bicycling and walking improvements with consistency.

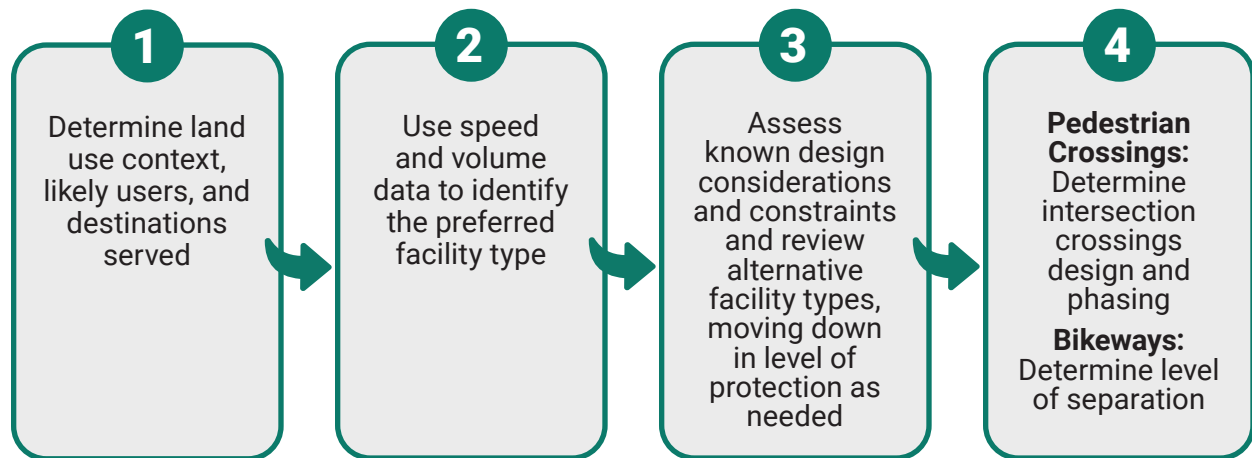
An updated Bicycle and Pedestrian Facility Design Toolkit expands options for active transportation in Clackamas County. It provides:

- A process to support decision-making
- Design guidance for new types of walking and bicycling facilities

8.1 Decision Making

Many of the proposed projects in this plan include new or upgraded crossings, paths, or lanes. The variety of road types and land uses throughout the County means that there is not a one size fits all solution for how to fill a gap or improve the quality of a location. The Toolkit provides a process to support decision making, illustrated in Figure 48.

Figure 48 Facility Selection Process



8.2 Key Facility Types and Design Elements

Certain facility types and design elements are key to advancing priority WBC projects. These elements – which are described in more detail below -- provide guidance on supportive treatments for conflict areas or other locations to increase comfort and safety for people walking and biking:

- Mid-block Crossings
- Uphill/downhill Markings
- Bicycle Box
- Bicycle Ramps
- Two-stage Left-turn Markings
- Bicycle Signals
- Vehicle Parking
- Vertical Separation for Bike Lanes
- Shy Zones
- Bicycle Crossing Markings - Colored Pavement in Conflict Zones

Mid-Block Crossings

Intersection and mid-block crossings can serve as key connections in the active transportation network. Mid-block crossings often connect multi-use path segments or commonly used paths to key destinations like schools, libraries, public institutions, etc.



Uphill/Downhill Markings

Uphill bicycle lane and downhill shared lane markings can be used in constrained rights-of-way to provide separate space for uphill bicyclists that travel significantly slower than vehicle traffic while alerting drivers that the downhill lane is shared with (faster-moving) bicyclists.



Bicycle Box

A bicycle box is a designated area on the approach to a signalized intersection consisting of an advanced stop line and bicycle symbols. Bike boxes are primarily used to reduce conflicts between through bicyclists and right-turning motorists at the beginning of the green signal phase.



Bicycle Ramps

Bicycle ramps can be used to transition bicyclists from on-street bicycle facilities (e.g., shared lanes, bicycle lanes, and shoulders) to off-street facilities (e.g., sidewalk-level protected bike lanes and multi-use paths).



Two-Stage Left-Turn Markings

A two-stage bicycle turn box designates an area at an intersection where bicyclists can wait for traffic to clear or for the signal to change before proceeding across the intersection (i.e., performing a two-stage turn). It may be used for left or right turns (i.e., turning right off of a two-way bikeway on the opposite side of the street). Research shows that this treatment is preferred by most bicyclists over a bicycle box for left turns.



Bicycle Signals

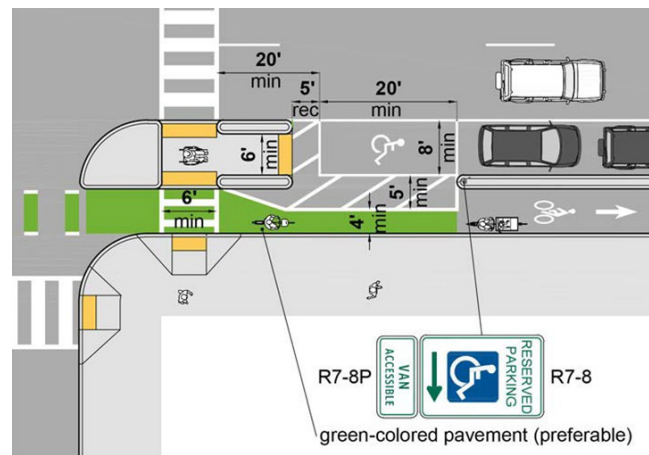
Bicycle signals provide a dedicated signal phase for bicyclists to move across an intersection when cars are not – in particular right-turning vehicle traffic -- or to facilitate a diagonal crossing of an intersection for a multi-use path.



Vehicle Parking

On-street parking may serve residents or street-oriented businesses. On-street parking can provide a buffer for bicyclists and pedestrians, improving their comfort and safety, by placing moving automobiles further away. The presence of parking may also reduce automobile traffic speeds on the street.

The need for on-street parking is often a consideration in reallocating road space for enhanced pedestrian facilities and higher-quality bikeways.



Vertical Separation for Bike Lanes

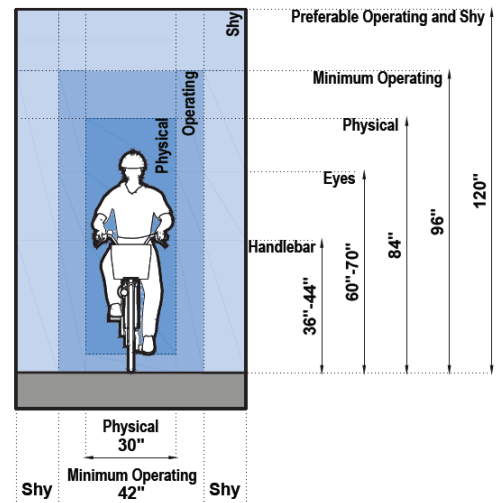
Protected bike lanes, raised cycle tracks, and multi-use paths all benefit from continuous or intermittent vertical elements in the street buffer to provide separation between motor vehicle traffic and the bikeway operating zone, and to discourage or prevent motor vehicle encroachment into the bikeway.

Examples of vertical elements include, but are not limited to, raised medians, textured pavement, flexible delineator posts, precast curbs (or parking stops), mountable curbs, planter boxes, parked cars, concrete barriers or rigid bollards, and landscaping/stormwater treatment facilities.



Shy Zones

Shy zone distance is the distance from which bicyclists feel comfortable riding next to physical (often vertical) elements. Bicyclists shy away from other bicyclists and vertical obstructions to avoid handlebar and pedal strikes. Shy distance plus operating space should be considered in the design of bikeways.



Bicycle Crossing Markings – Colored Pavement in Conflict Zones

Careful consideration for addressing potential motorist/pedestrian/bicyclist conflict areas at intersections, crossings, and transitions between facility types should be part of the facility design process. Conflict areas pose significant deterrents for many users and can result in a decision not to walk or bike.





9000 Block

505 NORTH
Portland
↑ ONLY

Sunnyside
Road
↑

505 SOUTH
Oregon City
↑ ONLY

40

9. MOVING FORWARD

Implementation will require community support and political leadership in addition to funding for both initial investments and ongoing maintenance.

This chapter outlines potential funding sources, implementation pathways, and accountability strategies.

9.1 Funding the Plan

Implementing a connected bicycle and pedestrian network in Clackamas County will take many years. It will require a variety of funding sources and creative collaborative efforts among various agencies to fund and build the network of walkways and bikeways, starting with the Tier 1 projects within each planning area.

Potential funding sources for active transportation are shown in the table below.

Figure 49 Funding Sources

	Common Funding Sources
County/local	<ul style="list-style-type: none"> • Urban Renewal District (Tax Increment Financing and Capital Projects Funds) • Community Road Fund • Fee in Lieu of (FILO) • Transportation System Development Charge (SDC)
Regional & State	<ul style="list-style-type: none"> • Regional Flexible Fund Allocation (RFFA) • Statewide Transportation Improvement Program (STIP) • Oregon Safe Routes to School (SRTS) • Oregon Community Paths (OCP) • Recreational Trails Program (RTP) through Oregon Parks and Recreation Department • Oregon Transportation Infrastructure Bank

Common Funding Sources	
Federal	<ul style="list-style-type: none"> • Rebuilding American Infrastructure with Sustainability and Equity (RAISE) • Federal Lands Access Program (FLAP) • Safe Streets and Roads for All (SS4A) Grant Program • Reconnecting Communities and Neighborhoods Grant Program (RCP) • New Federal Funding Sources Established by the Bipartisan Infrastructure Law (BIL) <ul style="list-style-type: none"> – Carbon Reduction Program – PROTECT Formula Program – Active Transportation Infrastructure Investment Program

9.2 Implementation

Projects have multiple pathways to implementation. Projects may be implemented through processes internal to the County or rely on external partnerships, through private developer requirements or partnerships with other agencies. Leveraging various implementation approaches and programs creates diverse opportunities to get projects off the ground.

Transportation Maintenance

The Clackamas Transportation Maintenance Division is responsible for the upkeep and repair of county roads and bridges, road-related infrastructure implementation. In addition to regular yearly maintenance, the division addresses over 5,000 maintenance requests from the public annually.

Hot Spot Programming

The Active Transportation Hot Spot program is a community-led effort by the county's Pedestrian and Bikeway Advisory Committee (PBAC) to identify and solve bicycle and pedestrian safety issues. These "hot spots" are specific locations on the road where there is a safety risk for people walking and biking. The program addresses these issues to reduce crashes involving people walking or bicycling. These problems are more significant than routine maintenance but not large enough for inclusion in broader transportation projects. Low-cost, hot spot projects are an easy way to advance small active transportation efforts. County should continue to support the Hot Spot program and advance implementation of solutions identified by the PBAC.

Private Developer Requirements

Encouraging or requiring private developers to complete local bicycle and pedestrian facilities is essential for connecting and enhancing bicycle and pedestrian access to key community destinations and closing gaps in the active transportation network. When local authorities collaborate with private developers to integrate walk- and bike-friendly amenities into new developments, they can create well-connected residential and business areas that support active transportation. Providing developers options to pay fees instead of building necessary active transportation facilities allows local government to allocate funding towards high priority active transportation near the new development.

Regional or State Partnerships

Exploring opportunities for collaboration with regional and state partners, such as the Oregon Department of Transportation (ODOT), North Clackamas Parks & Recreation District (NCPRD), Oregon State Parks, and municipal partners, can help Clackamas County advance larger-scale active transportation efforts that are challenging to fund locally. The County might consider leveraging these partnerships to group multiple projects under a single grant. A comprehensive network of improvements often yields a better return on investment during Benefit Cost Analysis than individual projects.

9.3 Accountability Strategies

Project implementation will be best supported by one or a combination of the strategies below:

- Ongoing financial and staff support for the county's Pedestrian and Bikeway Advisory Committee (PBAC)
- A quarterly agency partner workshop focusing on active transportation
- Additional staffing



10. APPENDICES

- A. Fact Sheet
- B. Public Involvement Plan
- C. Title VI Equity Assessment Memorandum
- D. Technical Memorandum 1: Health Equity Framework
- E. Technical Memorandum 2: Baseline Health Conditions
- F. Technical Memorandum 3: Plan Review
- G. Technical Memorandum 4: Existing Conditions Analysis
- H. Technical Memorandum 5: Pedestrian and Bicycle Goals
- I. Technical Memorandum 6: Supportive Programs
- J. Technical Memorandum 7: Shared Streets
- K. Technical Memorandum 8: Gaps and Deficiencies Analysis
- L. Technical Memorandum 9: Project Prioritization Methodology
- M. Technical Memorandum 10: Pedestrian and Bicycle Project Identification
- N. Technical Memorandum 11: Pedestrian and Bicycle Priority Project Recommendations
- O. Cost Estimate Methodology
- P. Funding and Implementation Strategy (December 2023)
- Q. Engagement #1 Summary (Winter 2022)
- R. Engagement #2 Summary (Spring 2023)
- S. Engagement #3 Summary (Summer 2023)
- T. Engagement #4 Summary (April 2024)

