Transportation System Plan Update

Vancouver City Council January 9, 2022



Kate Drennan, Principal Transportation Planner, Community Development Department

Thomas Brennan, Consultant Project Manager, Nelson\Nygaard Consulting

Agenda

- Modal Networks Update
- Big Ideas, Policies and Programs
- Community Engagement
- Next Steps





Presentation Purpose

Update on Transportation System Plan and feedback requested

Modal Networks

• Review updates to modal networks

Community Engagement

• Review community engagement activities and input to-date



Prior Council Review

Aug 24, 2020

• Intro to TSP Update

Jun 14, 2021

- Existing conditions
- City council values and the TSP
- Public outreach

Dec 20, 2021

Project Chartering Process

Apr 25, 2022

• TSP goals

July 18, 2022

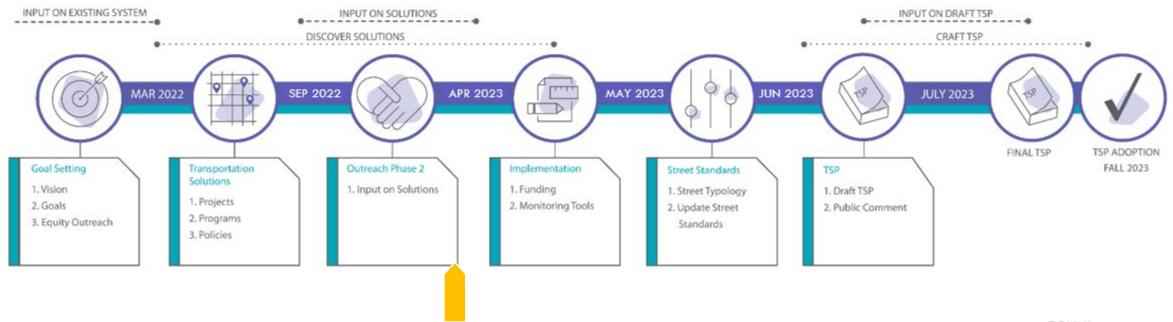
- Big Ideas
- Draft Policies, Projects and Programs (PPP)

September 12, 2022

- Big Ideas
- Modal Networks
- Prioritization







Transportation System Plan Update — 5

Committee



TSP Chartering Process

Project Phase	Elements	Council and TMC Action	Completed Dates/Tentative Dates
Project Baseline	 State of mobility Existing conditions Vulnerability analysis Community input 	TMC review	Jan 5, 2021; Mar 2, 2021; Jun 1, 2021; Jul 6, 2021
		Council workshop	Jun 14, 2021
Values and Goals	 Enhanced Transit Corridor analysis Community input on project values and associated project opportunities 	TMC review	Sep 7, 2021; Jan 4, 2022
		Council workshop	Apr 25, 2022
Final Goals and Priorities	TSP GoalsProject prioritization process	TMC review	Mar 1, 2022; Jul 5, 2022; Sep 6, 2022
		Council workshop	Jul 18, 2022; Sep 12, 2022
		Council resolution	September 26, 2022
Solutions	Polices and programsModal networks	TMC review	Jul 5, 2022; Sep 6, 2022; Dec 6, 2022
		Council workshop	Jul 18, 2022; Sep 12, 2022; Jan 9, 2023
		Council resolution	January, 2023
Implementation	 Street typology and standards update Pedestrian crossing policy Performance measures Funding recommendations 	TMC review	April 2023; May 2023
		Council workshop	April 2023; May 2023
		Council resolution	May/June 2023
Plan Adoption	 Review of draft plan 	TMC action item	July 2023; September 2023
	 Community input on draft plan 	Council workshop	July 2023; September 2023
	Plan adoption	Council resolution	September 2023

Alignment with Policy Priorities

 Progress on climate, equity, and safety priorities are directly linked to transportation and the goals of the TSP





-`Q_-

Big Idea Support Thriving Neighborhoods

15-Minute Neighborhoods

Make walking and small mobility convenient through mixeduse zoning and investment in complete corridors to serve all travel modes. Foster redevelopment within strategic development nodes to support 15-minute neighborhoods.

- Neighborhood Traffic Calming
- Safe Routes to School





Big Idea Support Thriving Neighborhoods

Climate Corridors

Develop climate corridors to mitigate climate impacts through greener streets, street tree canopies, natural plantings for stormwater management, linear parks, and other climate resilient techniques. Use city-owned right-of-way to create a network of corridors that support climate adaptation and safe and healthy mobility as climate change occurs.

- Natural Resources
- Street Trees
- Stormwater Management



Clark County Green Streets Project on NE 99th St



Big Idea Support Thriving Neighborhoods

Community Streets

Develop guidance and encouragement for community use of the right-of-way, including plazas, parklets, "streateries", open streets events, public art, and demonstration projects.

- Open Streets
- Street Art



Communities around the U.S. started using streets for civic life, walking, and cycling during the pandemic.



Complete Corridors

Create complete corridors throughout the city that connect growth areas, support business, serve transit, and increase safety. Corridors connect destinations and include identifying parallel options.

- Street Typologies
- Functional Classification Update
- Freight Classifications
- Critical Network Gaps



<u>Olympia, WA Complete Corridors Program</u> – project at 7th Ave and Plum St along a pilot corridor



People-Based Metrics

Plan, design, and evaluate projects and developments using people-focused metrics that prioritize person through-put, safety and comfort. Use the metrics to evaluate facility performance and post-project evaluations.

- Traffic Impact Analysis
- Multimodal Concurrency Standards
- TIP Prioritization
- Paving List





Street Standards

Adopt street standards that create comfortable, inviting multimodal streets. Integrate the latest best practices from NACTO, WSDOT, AASHTO, and MUTCD in terms of facility selection and design, traffic control, and signage and striping. Adopt into standard plans referenced in VMC Title 11.

- Multimodal Access Through Street Connectivity
- Pedestrian Crossing Policy
- Access Management



Vision Zero

Adopt a Vision Zero policy committing to end traffic fatalities and serious injuries on Vancouver streets by 2040. This policy would be a resolution to address the intersecting factors that lead to fatal crashes, such as unsafe behavior, alcohol and drug impairment, street design, and traffic speeds.

- Lower Posted Speeds
- Citywide Safety Program
- High-Crash Corridors
- Street User Education

- Automated Enforcement
- Pedestrian-Scale
 Lighting
- Quick-Build Response



Project Delivery

Deliver maintenance, capital, and development projects in an effective, efficient manner with clear and transparent communication to the community.

- Project Managers
- Communications
- Anti-Displacement

-`Q_`-

Big Idea Connect People to Transit

Access to Transit

Prioritize sidewalk and crosswalk gaps adjacent to transit stops, particularly along equity routes, and identify first/last mile barriers to major transit stops to address on an ongoing

basis.



Bus stop at NW Lincoln & 51st, missing a sidewalk and more than 200 ft to a marked crosswalk

-`Q_-

Big Idea Connect People to Transit

Enhanced Transit Corridors

In coordination with C-TRAN, build a network of Enhanced Transit Corridors where higher level of transit service (frequency, hours of operation, stop amenities) are desired based on existing and future density and equity.

- Network of The Vine
- Speed and Reliability Designs
- Equity Corridors



Big Idea Connect People to Transit

Transit and Land Use

Support transit through compact land uses and policies that incentivize transit use.

Supporting policy:

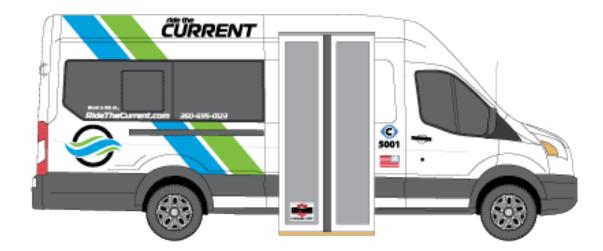
• Transit Overlay District



Big Idea Connect People to Transit

Microtransit

Integrate shared and emerging mobility technology and tools with C-TRAN microtransit zones to provide a suite of mobility options, especially in lower-density areas without highfrequency transit





Low-Stress Mobility Network

Adopt a city-wide low-stress long-term mobility network that prioritizes safety and comfort for people of all ages. This network is a subset of the city's larger mobility network consisting of lower-stress facilities such as neighborhood greenways and shared-use paths. The density targe for lowstress facilities is every half-mile.

> <u>Fort Collins, CO</u> has established a bicycling program, FC Bikes, that includes a low-stress network, a cycling map, learning resources, and a bike-to-work day.





Pedestrian Priority Streets

Adopt a network of Pedestrian Priority streets where safety and comfort for people walking is prioritized. Assign categories (primary, secondary) based on the roadway classification, level of demand, and existing and planned land uses, and use these categories to recommend desired facilities and amenities (shade, lighting, seating, etc.).

Shoulder Bikeways

Design Summary

Typically found in less-dense areas, shoulder bikeways are paved roadways with striped shoulders (4*) wide enough for bicycle travel. Shoulder bikeways often, but not always, include signage alerting motorists to expect bicycle travel along the roadway. Shoulder bikeways should be considered a temporary treatment, with full bike lanes planned for construction when the roadway is widened or completed with curb and gutter. This type of treatment is not typical in urban areas and should only be used where constraints exist.

The choice of bike lane facilities, whether bike lanes should be striped or if a road should be a shared-use roadway, can be a simple quantitative matter of the speed and volume of traffic on the roadway. It can also be a much more complicated analysis that includes consideration of facility users, key connections, type of traffic, as well as other qualitative factors. The table to the right provides guidance for making facility type decisions.

Discussion

In many cases, the opportunity to develop a full standard bike lane on a street where it is desirable may be many years. It is possible to stripe the shoulder in lieu of bike lanes if the area is 50 percent of the desirable bike lane width and the outside lane width can be reduced to the AASHTO minimum. If the available bike lane width is 2/3 of the desirable bike lane width, the full bike lane treatment of signs, legends, and an 8" bike lane line would be provided. Where feasible, extra width should be provided with pavement resurfacing jobs, but not exceeding desirable bike lane widths.

Wide Outside Lanes

A wide outside lane may be sufficient accommodation for bicyclists on streets with insufficient width for bike lanes but which do have space available to provide a wider (14'-16') outside travel lane.



Shoulder bikeways are appropriate along wide roads where vehicles can avoid passing close to bicyclists

Context for Shoulder Bikeways vs. Bike Lanes

Variable	Effect on Need for Bike Lanes
1. Land Use indicators	
Urban Center, CBD	Decreases
Suburban	Increases
Buildings at back of sidewalk	Decreases
Buildings set back from roadway (parking lots front street)	Increases
On Street Parking	Decreases
Short block length	Decreases
Long block length	Increases
2. Traffic speed/volume indicators	
Signal coordination timed at higher than posted speeds	Increases
Signal coordination timed at lower than posted speeds	Decreases
Peak Hourly Traffic Volume > 10%	Increases
Roadway characteristics	
Wide roadway / multiple travel lanes	Increases
Steep grades: uphill	Increases
Steep grades: downhill	Decreases
Bicycling demand indicators	
Popular Route to School	Increases
Provides continuity of bike lanes, routing or trail	Increases
Other high-use indicators	Increases

Tacoma, WA has developed <u>pedestrian and</u> <u>bicycle design guidelines</u> as a part of their Mobility Master Plan



Active Transportation Navigation

Support walking and small mobility by making it easy and intuitive to navigate the city and find destinations.

- Maintenance Protection
- Wayfinding
- Bicycle/Small Mobility Parking



Small Mobility and Walking Programming

Complement infrastructure with robust programming that encourages and educates people about the benefits of walking and small mobility.

Supporting programs and policies:

- Active Transportation
 Staffing
- E-bike Rebate
 Program
- Small Mobility Events



Image: Contact Us

 Events v
 Plans & Projects v

 Education v
 Resources & Tools v
 Calendar

Fort Collins, CO developed <u>FC Moves</u>, a city department that exists to advance mobility solutions to increase walking, bicycling, transit use, shared and environmentally sustainable modes



Development Review

Work with development community to establish a shared set of requirements and expectations for how development can support transportation.

- Transportation Impact Fees
- Frontage Requirements

Citywide Parking Policy & Code

Update parking code and policies to right-size the amount of parking developed with future growth and create safe streets, compact urban form, and encourage non-driving forms of transportation.

- Parking Requirements
- Parking Design Guidance
- Parking Capacity



Parking Management

Effectively manage on and off-street parking resources through adoption of policies, systems, and tools throughout the city.

- Parking Operations
- Parking Experience
- Residential Parking





Downtown Parking

For those who drive downtown, create a user-friendly, wellmanaged, and right-sized "park once" environment where people can walk between destinations without moving their car.

- Downtown Parking Strategies
- Downtown Circulator

-`Ų́-

Big Idea Make Growth a Benefit for All

Transportation Demand Management (TDM)

Require transportation demand management to reduce drivealone trips, offer all travelers more mobility choices, and incentivize behavior change to more walking, biking, carpooling, and transit trips.

- TDM in Capital Projects
- Commute Trip Reduction (CTR) Refresh and Expansion

-Ď.

Big Idea Embrace the Future

Data Collection and Monitoring

Use data to track travel pattern changes over time.

- Active Transportation Counts
- Location-Based Services
- Online System Dashboard



Big Idea Embrace the Future

Climate Impacts

Adopt policies that will help meet the city's goal of zero carbon emissions by 2040.

- Mode Targets
- Congestion Pricing
- Vehicle Miles Traveled Reduction

-<u>`</u>Q<u></u>`-

Big Idea Embrace the Future

Technology for System Management

Embrace technology as a way of managing the transportation system without expanding capacity

- Signal Modernization
- Green Wave

ہپ` Big Idea

Embrace the

Future

Electric / Autonomous Vehicles

Set city policy around EV / AV usage and role in achieving climate goals.

Supporting project:

• City Fleet



It is important to understand the issues related to equitable access to mobility, gentrification, and access as EV use and charging expands



Big Idea Embrace the Future

Emerging Mobility

Update city policies for how shared mobility and emerging mobility vendors shall operate in Vancouver. Create data standards and sharing agreements, vendor requirements, and require equitable access to services both geographically and through reduced costs for people with low incomes.

- Mobility Hubs
- Small Mobility and Scooter Share
- Mobility as a Service



Big Idea Embrace the Future

Curb Management

Develop policies and programs that efficiently manage valuable curb space, recognizing the high demands on this resource with changing living and shopping patterns.

- Dynamic Curb Management
- Small Freight Management
- Freight Parking and Loading

Modal Networks Update

Low-Stress Active Transportation Networks

Enhanced Transit Network

Street Network and Complete Corridors



Modal Networks

Focus on policy, programs, and capital projects

- Walking and Rolling
- Mobility (Bicycle and Small Mobility)

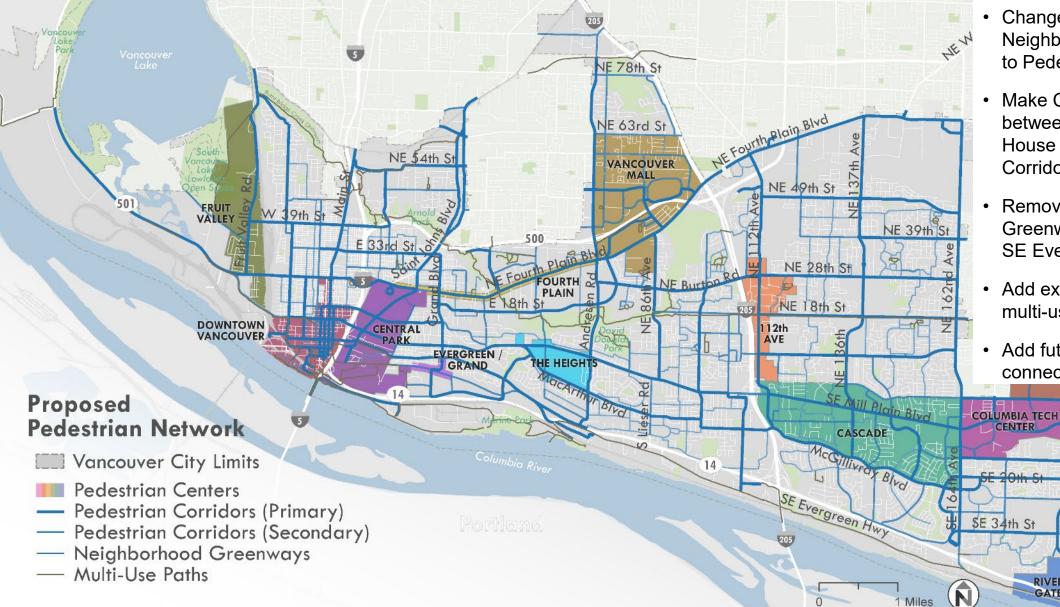
Focus on policy and programs

- Transit
- Freight
- Parking
- Emerging Mobility
- Street Network





Low-Stress Pedestrian Network



Edits completed:

- Fill in gaps on SR 501
- Change SR 501 from Neighborhood Greenway to Pedestrian Corridor
- Make Columbia Way between I-5 and Columbia House Blvd a Pedestrian Corridor
- Remove Neighborhood Greenway segment from SE Evergreen
- Add existing and planned multi-use paths

SE 1 st St

NW 38th Ave

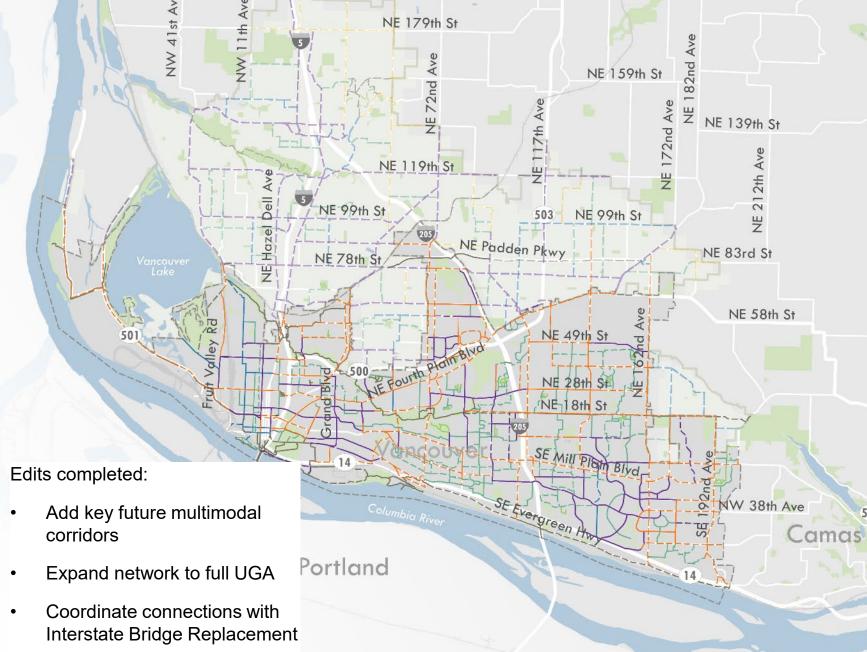
NM BY BY BY

• Add future E 5th St connection

0

RIVERSIDE GATEWAY

Low-Stress Bike and Small Mobility Network



Proposed Bicycle and Small Mobility (BSM) Network

Vancouver City Limits

PROPOSED BSM NETWORK*

- ---- Protected BSM Lanes
- —--- Buffered BSM Lanes
- ---- BSM Lanes
- ---- Neighborhood Greenways
- ---- Multi-Use Paths
- ---- Unpaved Trails

*Routes that are currently low-stress are indicated with a solid line, while routes that are proposed as low-stress facilities are indicated with a dashed line.

CLARK COUNTY PLANNED BICYCLE NETWORK

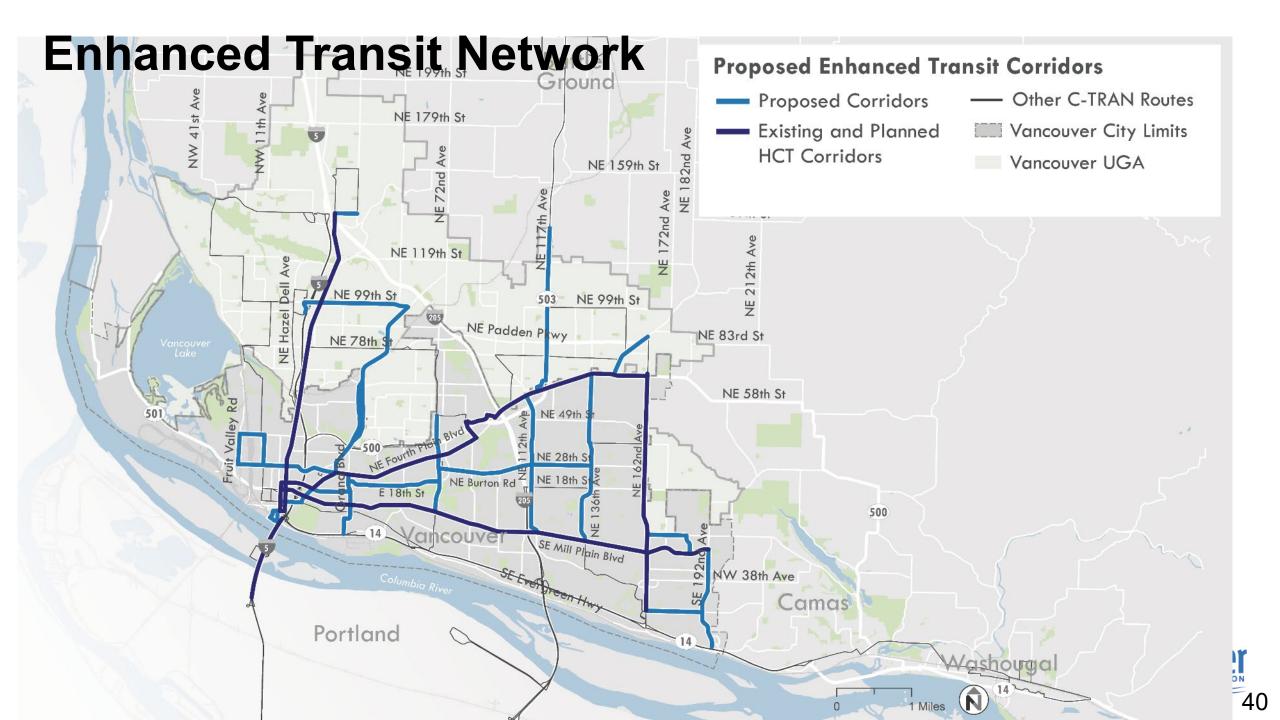
- ---- Protected Bike Lanes
- ---- Buffered Bike Lanes
- --- Bike Lanes

500

- 4 ft. Shoulder Bikeways
- Shared Roadways
- Multi-Use Paths
- Unpaved Trails

Washougal

14



From Networks to a Capital Project List

- The TSP provides facility selection policies, design standards, and targets
- Designated networks define the long-term vision and lead to capital projects
- Prioritization (next section) identifies highest priority locations and determines phasing



Fall 2022 Community Engagement



Direct Engagement

Online Open House and Survey



Fall 2022 Engagement Overview (Aug – Nov)

- BeHeard Web Updates
- Tabling and Business Canvassing
- Community Roundtable + Clark College Focus Groups
- Community Presentations to neighborhood associations and CBOs
- Online Open House #2 and Survey

Other outreach was carried out in conjunction with:

- Fourth Plain Safety & Mobility Project
- 34th Street Safey & Mobility Project
- Heights District Plan
- ARPA Planning
- Strategic Plan



Tabling and Business Canvassing

Activity	Date	Event / Location / Group	TOTAL REACHED
Tabling	August 2	Fourth Plain Forward & Columbia Play Project Arte en El Parque	170+ Total engaged
	September 17	LULAC Grows Mercado	
	September 17	Multicultural Resource Fair at Clark College	
	October 1	Downtown Vancouver Farmers Market	
Business Canvassing	October 11, 12, & 19	Project corridor (F Street to Ft. Vancouver Way) – Ft Vancouver Way (Fourth Plain to Mill Plain)	34 Businesses



Tabling and Business Canvassing

Outreach was carried out in conjunction mainly with Fourth Plain Safety & Mobility Project

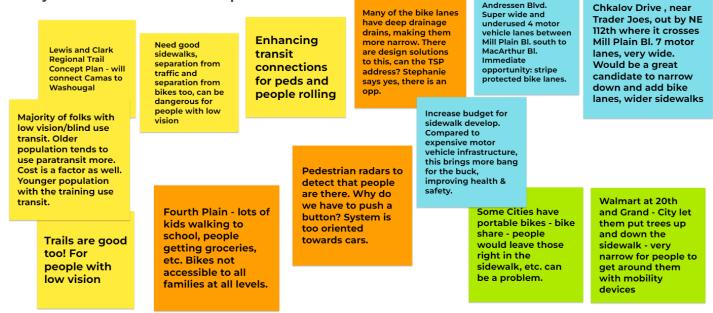




Community Focus Groups

- Nov 8 Community Roundtable - Attended by representatives from ADA, blind and lowvision, walking and biking communities.
- "Transportation Talks" at Clark College Sept 26 and 29

What are the key corridors and network connections you want to see improved?





Neighborhood and Community Presentations

- Vancouver Neighborhood Traffic Safety Alliance Nov 16
- Action for Climate Emergency (ACE) Nov 16
- Meadow Homes Neighborhood Association Nov 16
- Fourth Plain Forward Ongoing
- Also contacted: Arnada, Fourth Plain Village, Central Park, Harney Heights, Hudson's Bay, Maplewood, Rose Village Neighborhood Associations, and Washington School for the Blind.



Input from Focus Groups and Presentations

- Support for bike facilities on Chkalov Dr and McGillivray/MacArthur, and for multi-use paths
- Consider EV charging and fleet electrification
- Consider bus-only lanes, park-and-rides
- Address scooters/small mobility
- Expand focus of commute trip reduction beyond from downtown
- Bike lane maintenance/street cleaning is important
- Concern about congestion with lane reconfigurations



Online Open House and Survey

- Launched Sept 26 Closed Nov 15, 2022
- 403 Open House Visits
- Avg. 6.8 per day
- 41 Completed Surveys
- English and Spanish

Transportation System Plan Update — 49



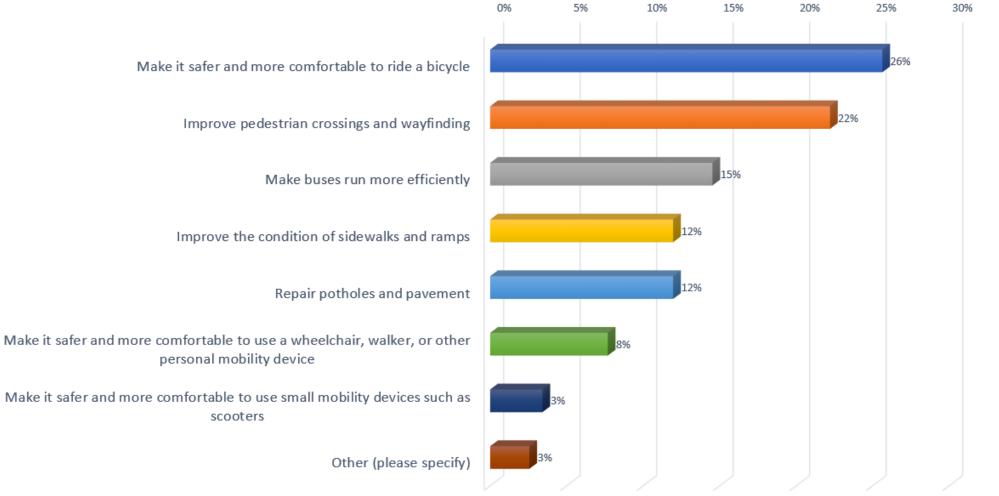
Welcome! Overview Big Ideas Draft Networks Share Your Feedback Next Steps

Welcome!

This open house will share information and ask for your feedback on the future of transportation in Vancouver.

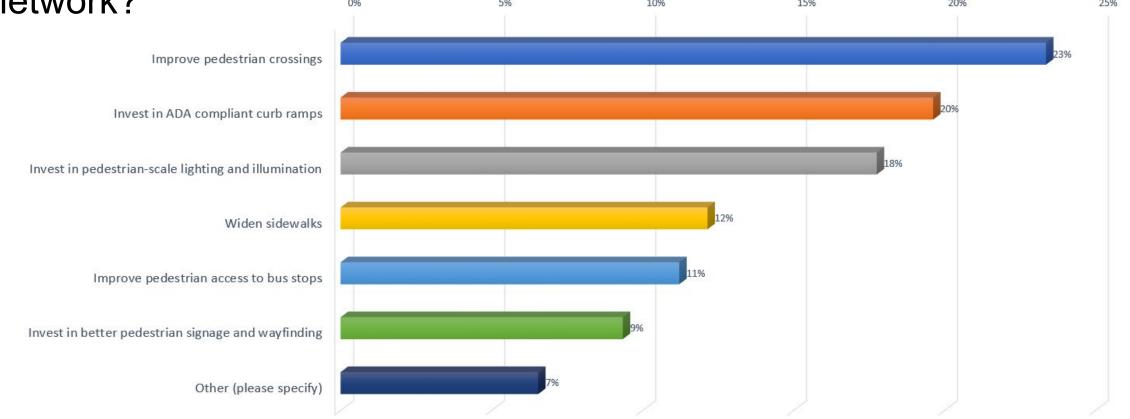
The Vancouver Transportation System Plan (TSP) is still underway - the plan to help guide transportation decision investments in the City over the next 20 years. As of Summer 2022, the City has made progress on the TSP by drafting "Big Ideas" for the plan as well as drafting transportation networks. This open house summarizes this recent work and will ask for your feedback to help shape the plan's recommendations and strategies as the process moves forward.

What are your top three (3) priorities for future investments on multimodal corridors?





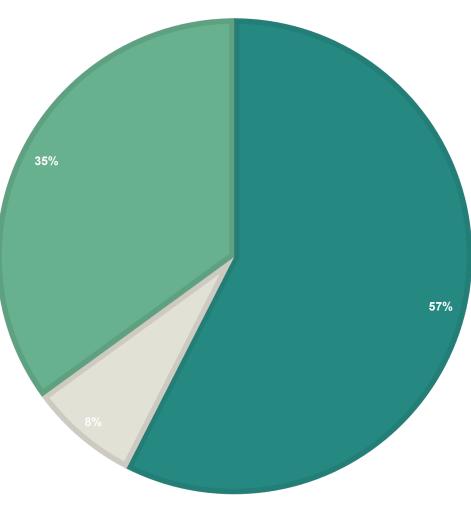
What are your top three (3) priorities for the future walking and rolling network? ⁰⁵ ⁵⁵ ¹⁰⁵ ¹⁰⁵ ¹⁰⁵ ²⁰⁶ ²⁰⁶ ²⁵⁶





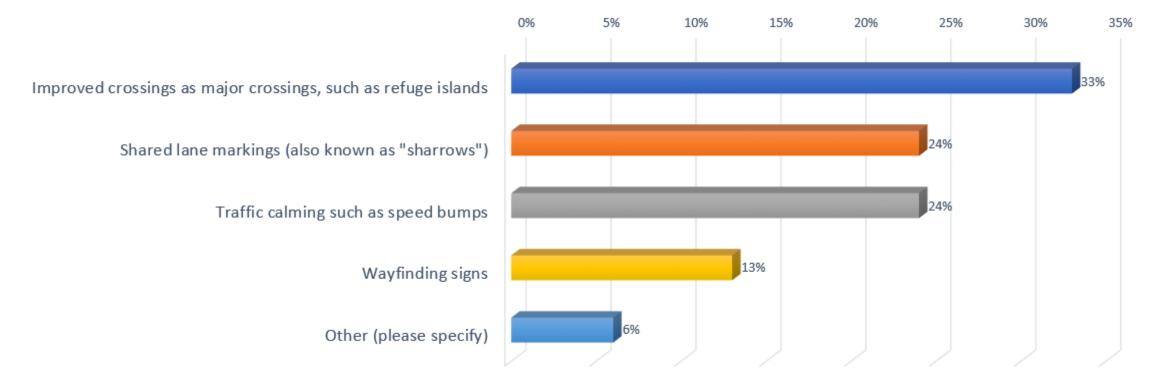
DO YOU THINK IT'S IMPORTANT THAT THE CITY'S FUTURE BICYCLE AND SMALL MOBILITY NETWORK PROVIDES ACCESS TO A LOW-STRESS FACILITY WITHIN EVERY HALF MILE?

■Yes ■No ■Don't know / Not sure



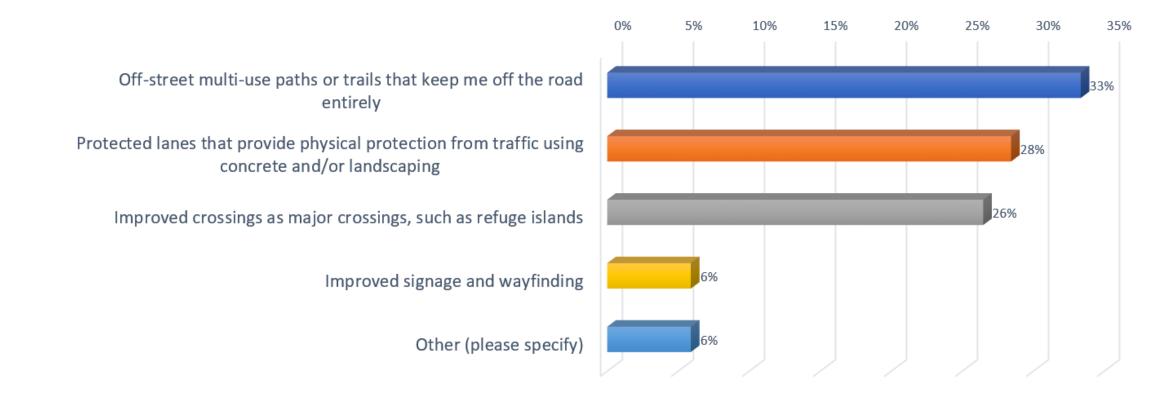


What three (3) bicycle and small mobility improvements are most important to you on *quieter* neighborhood streets?



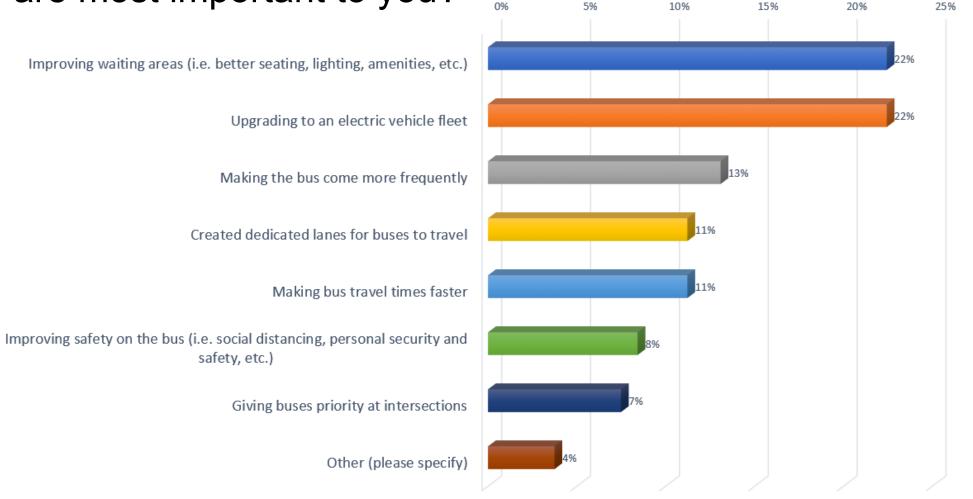


What three (3) bicycle and small mobility improvements are most important to you on *busier* neighborhood streets?





What three (3) types of enhanced transit investments are most important to you?





Feedback

- Support for frequent, efficient, and electric buses
- Support for off-street multi-use paths and trails along busier corridors
- Protected bike/small mobility lanes for on-street facilities
- Median refuge islands at high volume crossings
- Speed reduction and control throughout the City



Feedback

- Modal Network recommendations:
 - Generally, most were in support of the draft modal networks.
 - Multimodal improvements needed on Mill Plain east of I-205, with a connection to Columbia Tech Center
 - Better walking network in Fruit Valley
 - Andresen Road should be a multimodal corridor
 - Improved crossings at 34th, 112th, 117th, and 162nd
 - Safety improvements needed at Fourth Plain & F Street



2023 Engagement

- Ongoing meetings and presentations to neighborhood associations and CBOs:
 - Arnada Neighborhood Association, January 7, 2023
 - Fourth Plain Village Neighborhood Association, Feb-Mar 2023 (TBD)
 - Fourth Plain Forward Ongoing
 - Our Place Nuestra Casa (TBD)
- Spring Online and In-Person Engagement on Draft TSP



Questions or comments?



Next Steps

 $\textcircled{\bullet \bullet \bullet \bullet}$

Final Networks, Policies, and Programs

Capital Project List + Prioritization Draft Transportation System Plan



Topics for Council Workshops (Spring 2023)

- Prioritized project list
- Street typology and standards update
- Pedestrian crossing policy
- Performance measures
- Funding recommendations



Thank You

To learn more, visit [website]

