

Transportation System Plan Update

Transportation and Mobility Commission, January 4, 2022

Presenters: Stephanie Wright & Esther Needham



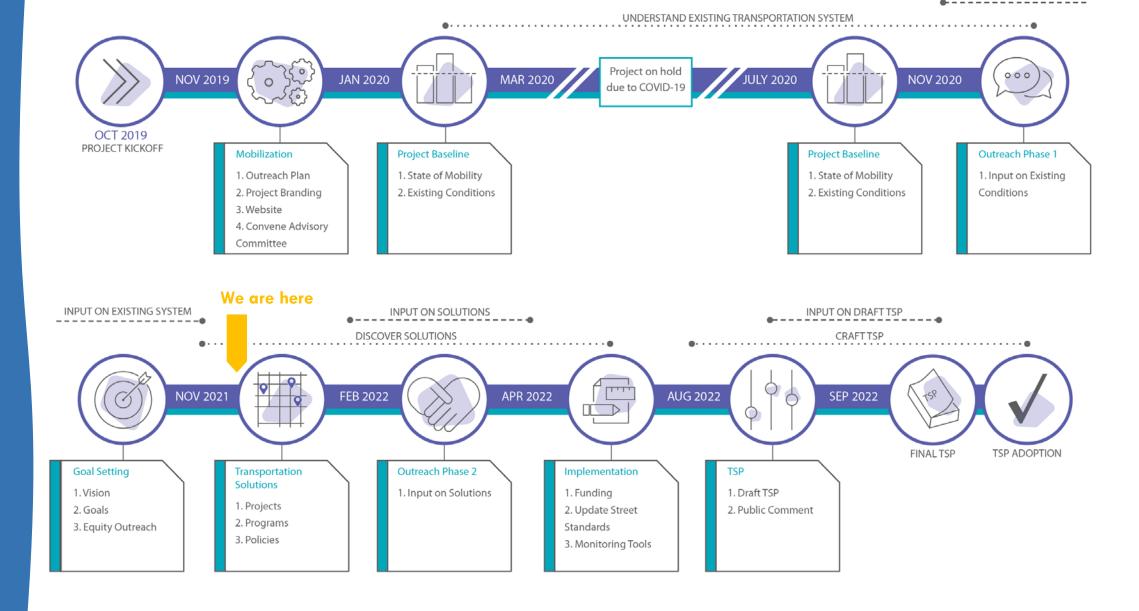
Agenda

Enhanced Transit Network 4:45-5:15

2 Equity Analysis Update 5:15-5:25

Opportunities: Travel Patterns 5:25-5:45

Community Values Outreach 5:45-6:00



Enhanced Transit Network

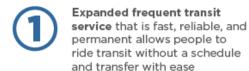
Enhanced Transit Task Elements

- What is Enhanced Transit and How Can the City Support Transit?
- 7 Transit in Vancouver
- 3 The Enhanced Transit Network

Document Purpose:

- Describe existing transit conditions in Vancouver
- Identify how the system can expand to meet future growth
- Create targets for service schedules that increase transit convenience
- Begin a policy framework for how the City of Vancouver can support deployment of transit

What is Enhanced Transit?





5

High-quality stops and stations make transit accessible, comfortable, and convenient



2

Transit information and legibility lets riders know when transit will arrive and makes using the system intuitive





Flexible fare and pass programs make transit easy to use and affordable for families and low-income people





Safe and convenient pedestrian and bicycle access connect people to transit stops and key destinations





Coordinated land use, parking, and placemaking policies help transit connect people to destinations efficiently





On-demand services (e.g., Lyft and Uber) and bike share serve first and last mile needs and expand service hours





Education and outreach improve awareness and understanding of how to use the transit system



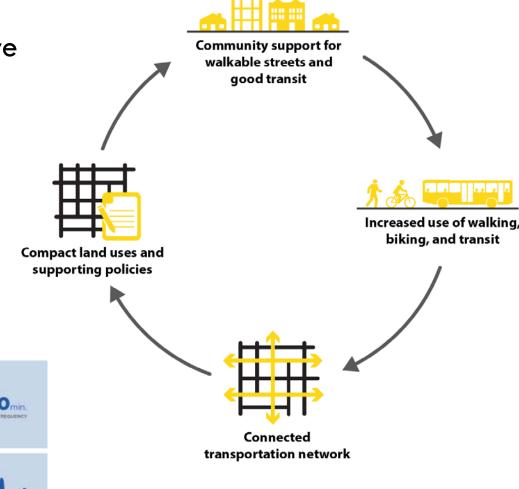
Why an Enhanced Transit Network?

- Support the City's goals to improve the efficiency of the transportation system, improve safety for vulnerable road users, and reduce transportation emissions
- Guide decision-making about capital investments by:
 - Identifying a network of corridors where transit enhancements are merited
 - Analyzing barriers and solutions around access to transit
- Align City and C-TRAN priorities and needs for transit in Vancouver

Land Use and Transit

- Dense land use and transit are mutually supportive
- Density is a major factor in achieving high transit ridership
- Denser areas can support higher frequencies,
 which makes service even more convenient

Land use policies can create a virtuous cycle























What is the City's Role in Transit?

- The City plays an important role in shaping and supporting a local vision for transit, in collaboration with C-TRAN.
- The City is responsible for building and maintaining streets and sidewalks, as well as making decisions about how streets are used.
- The City can design streets that help transit service be faster and more reliable, and support access to transit with things like sidewalks and crosswalks.

1. STREET DESIGN SUPPORTING FAST AND RELIABLE SERVICE

2. PROVIDING SAFE AND COMFORTABLE ACCESS

3. MANAGING GROWTH

Quality Transit Takes a Partnership



Provide Frequent Service

✓ C-TRAN

City of Vancouver



Keep Buses Moving

C-TRAN

✓ City of Vancouver



Supportive Land Use

C-TRAN

✓ City of Vancouver



Safe, Comfortable Access

✓ C-TRAN

✓ City of Vancouver

Transit in Vancouver Today

- In 2019, C-TRAN carried 20,800 average weekday boardings
- 38% of the population in Vancouver's Urban Growth Area (UGA) lives within ½ mile of service with 15-minute peak frequencies
- 76% of the UGA population lives within ½ mile of service with 30minute peak frequencies



C-TRAN's Existing Service Types

- Transit agencies provide
 difference types of service to
 meet various markets that travel
 for different purposes, at
 different times, and from different
 locations
- C-TRAN provides a series of fixed routes, flex routes, demand response, and microtransit services to meet a variety of needs

THE VINE - BUS RAPID TRANSIT

High frequency, high ridership; serving Fourth Plain corridor

FIXED ROUTE - FREQUENT

Local service prioritizing direct connections and fast travel times; peak and off-peak frequencies vary

FIXED ROUTE - COVERAGE

Local service prioritizing access to transit; frequency and span are more limited than frequent service

EXPRESS

Limited stops; serving peak only weekday time periods

CONNECTOR

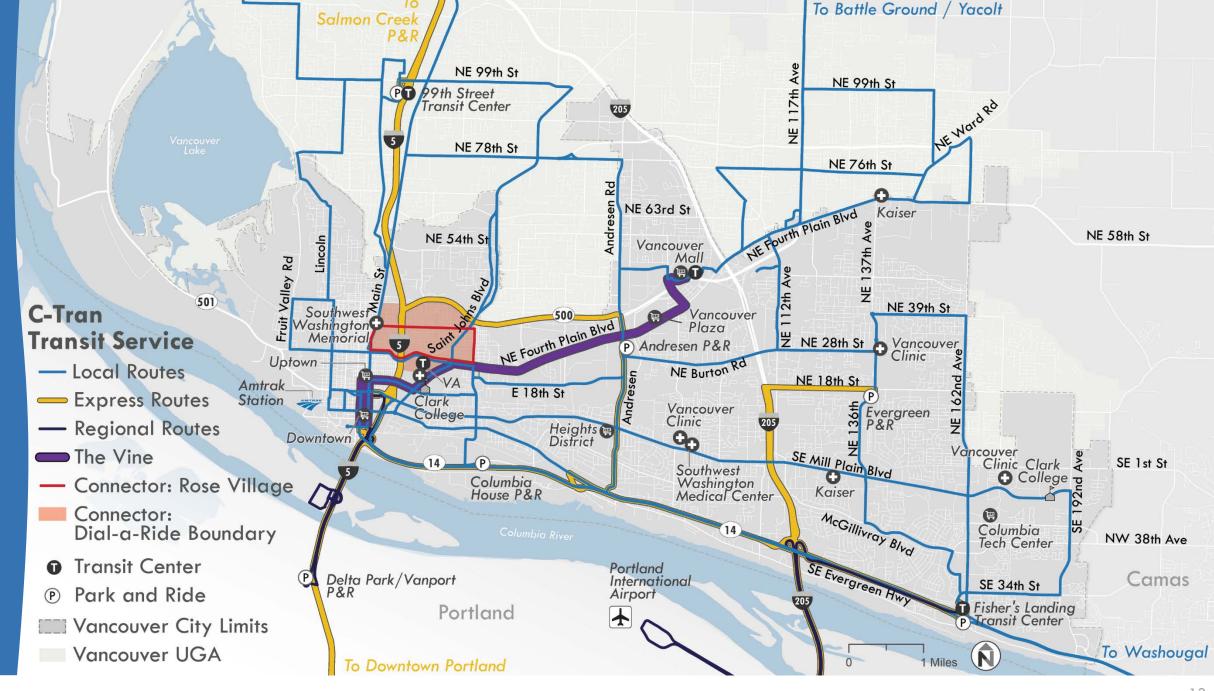
Dial-a-ride service combined with regular stop service; serves Rose Village, Camas, La Center, and Ridgefield

PARATRANSIT (C-VAN)

A reservation-based shared ride service that provides origin to destination trips for eligible populations

VANPOOL

Small commuter groups traveling at least 10 miles in each direction with a start/end in C-TRAN's service area



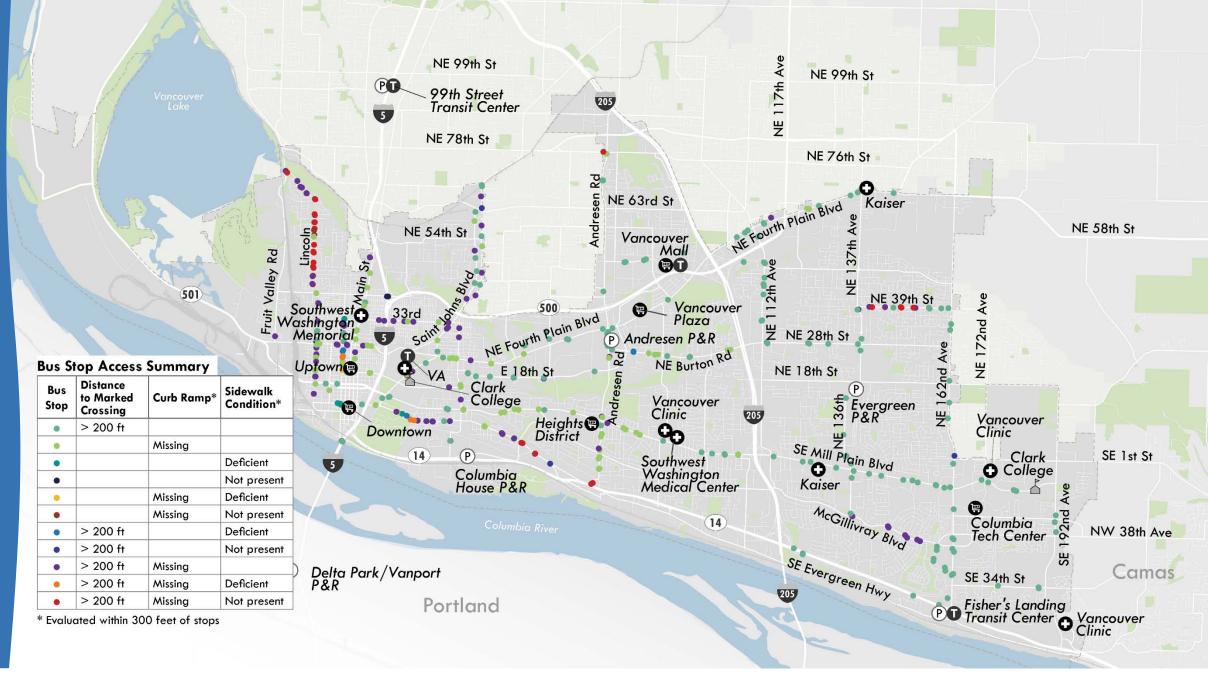
Getting to Transit

- All transit trips start and end with a walk, roll or bike ride.
- Vancouver's Pedestrian Crossing Improvement Policy specifies that locations that are frequented by pedestrians, including transit facilities, should be considered for marked crossings.
 - The policy does not provide guidance as to how far crossings should be from stops, and the City does not have a program or policy that specifically prioritizes crossings near transit stops

291 bus stops (49% of all stops in the City of Vancouver) are more than 200 feet from a marked crosswalk

39 stops (7% of all stops in the City of Vancouver) are on a block with no sidewalk

201 stops (34% of stops in Vancouver) are within a block of a missing curb ramp or a sidewalk in poor condition



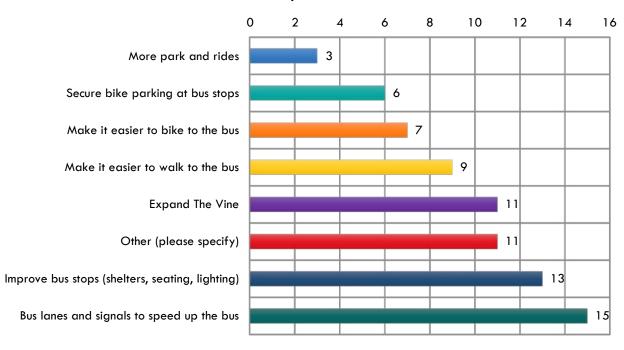
The Public's Transit Priorities

Comments about transit gathered during Vancouver Moves outreach are focused on a few key themes. People want:

- Increased frequency
- Longer hours of service
- Expanded commuter service
- More routes/expanded coverage

The Vancouver Moves Online Open House asked about top priorities for the transit system

What are your top priorities for improving the City's transit system?



How was the Proposed Enhanced Transit Network Identified?

The analysis looks at four main elements:

Equity

- COVID ridership
- Equity focus areas

Regional Growth

 Population and Employment projections

Local Growth Priorities

 Centers identified in the Vancouver Comprehensive Plan

Congestion

Where buses are delayed

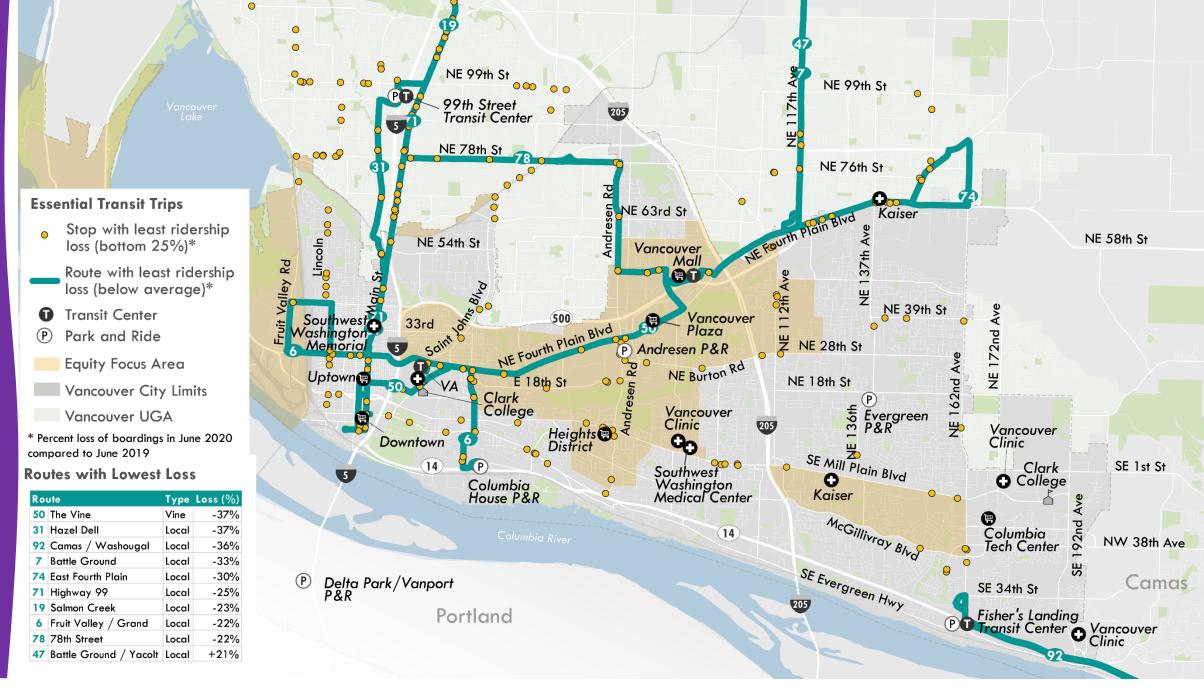
Equity

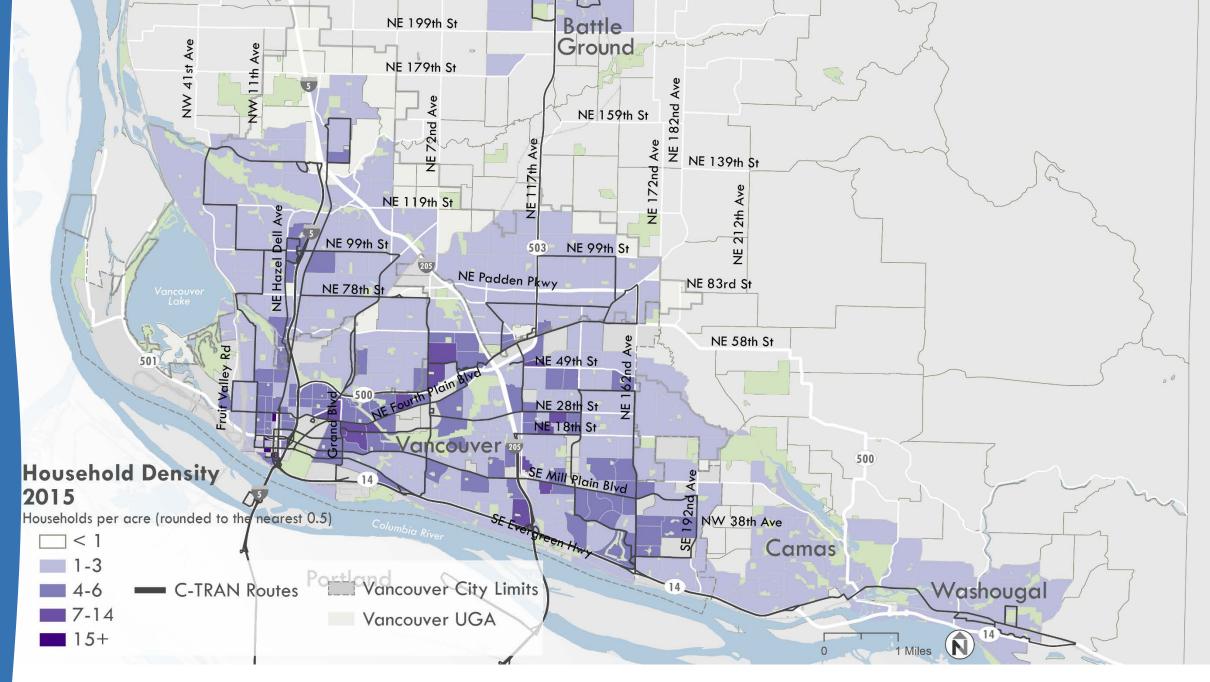
- Additional routes were added to the analysis based on equity considerations
- Equity Focus Areas are census tracts where a high proportion of residents are economically vulnerable and likely to rely on transit
 - These places might not see the highest ridership, but they do see the greatest need for transit service
- The COVID-19 pandemic helped reveal where people rely on transit the most, as people were asked to limit themselves to essential trips

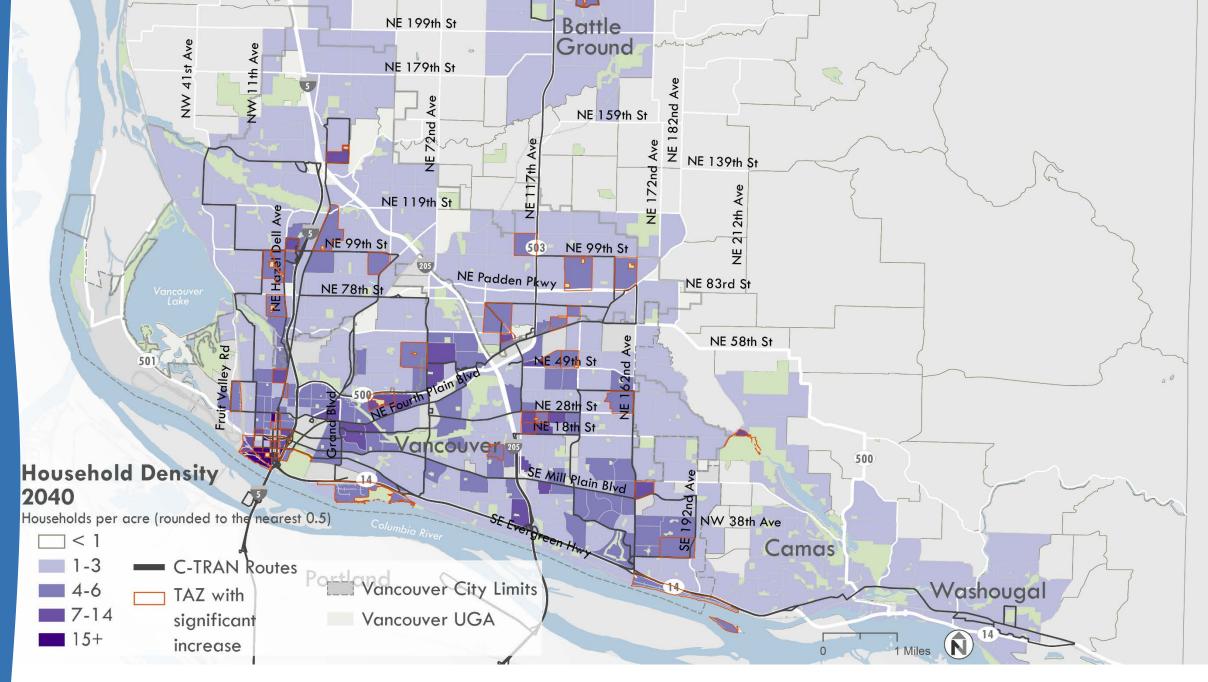
During the first few months of the pandemic in 2020, C-TRAN ridership fell 43% compared to 2019

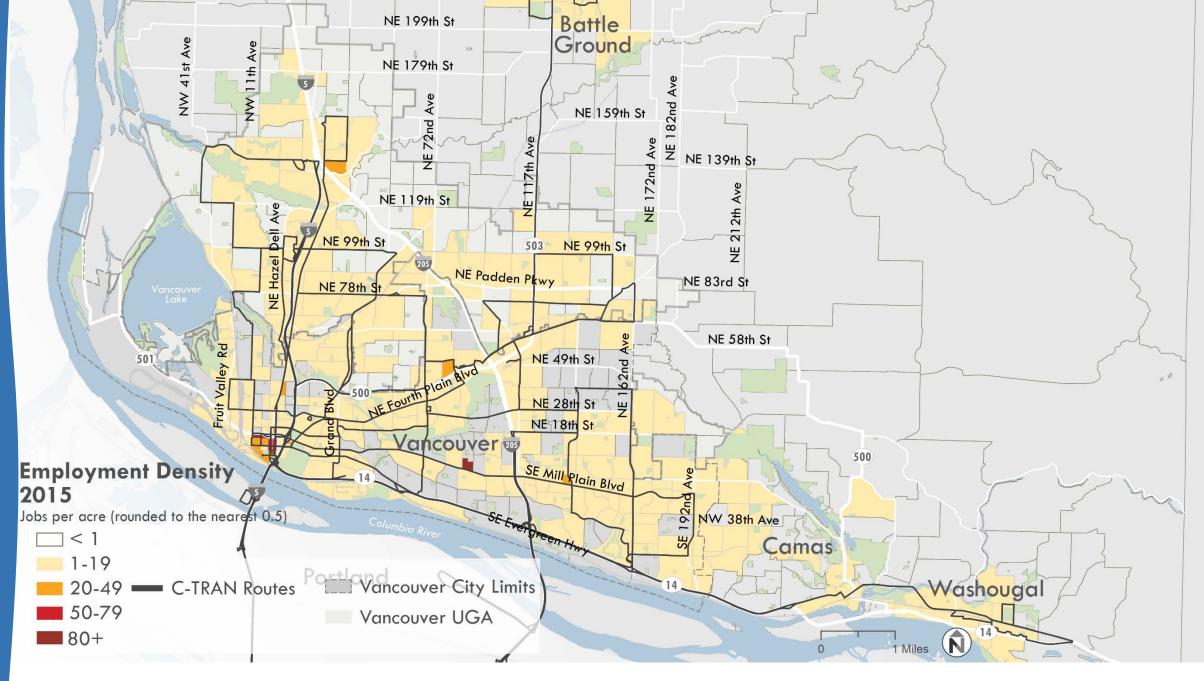
But many routes, particularly those that serve Equity Focus Areas and regional destinations, saw a less severe dip in ridership than the average

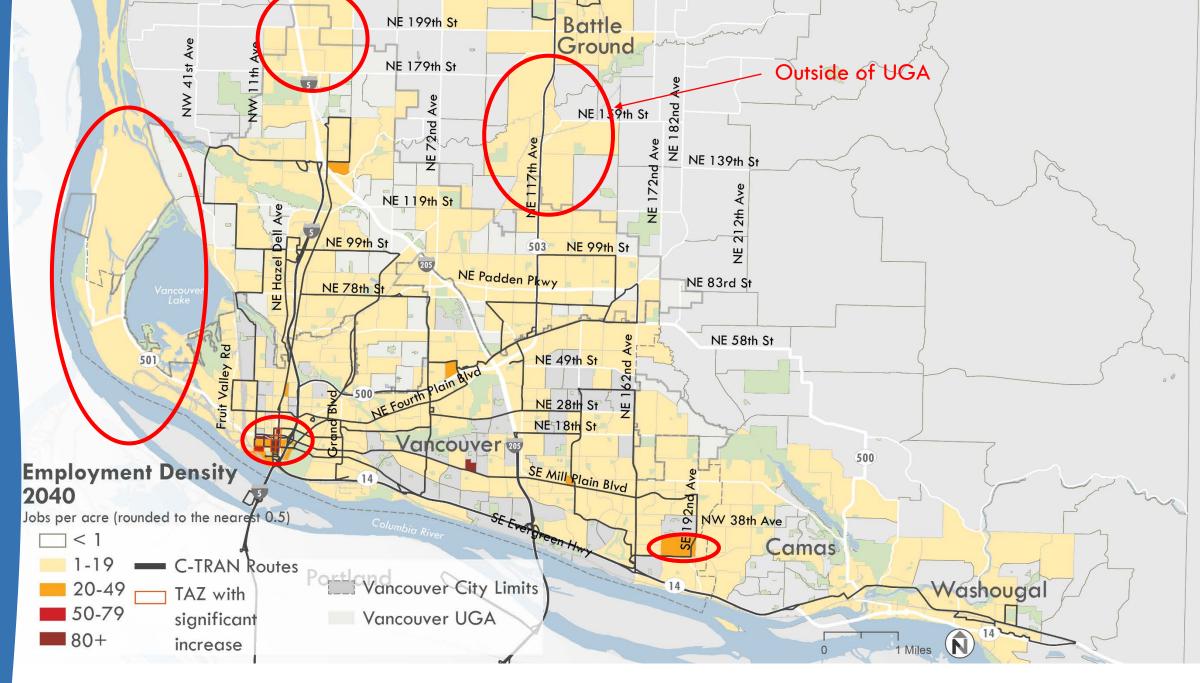
On other routes, overall ridership was down but the stops that serve equity focus areas continued to see relatively steady boardings





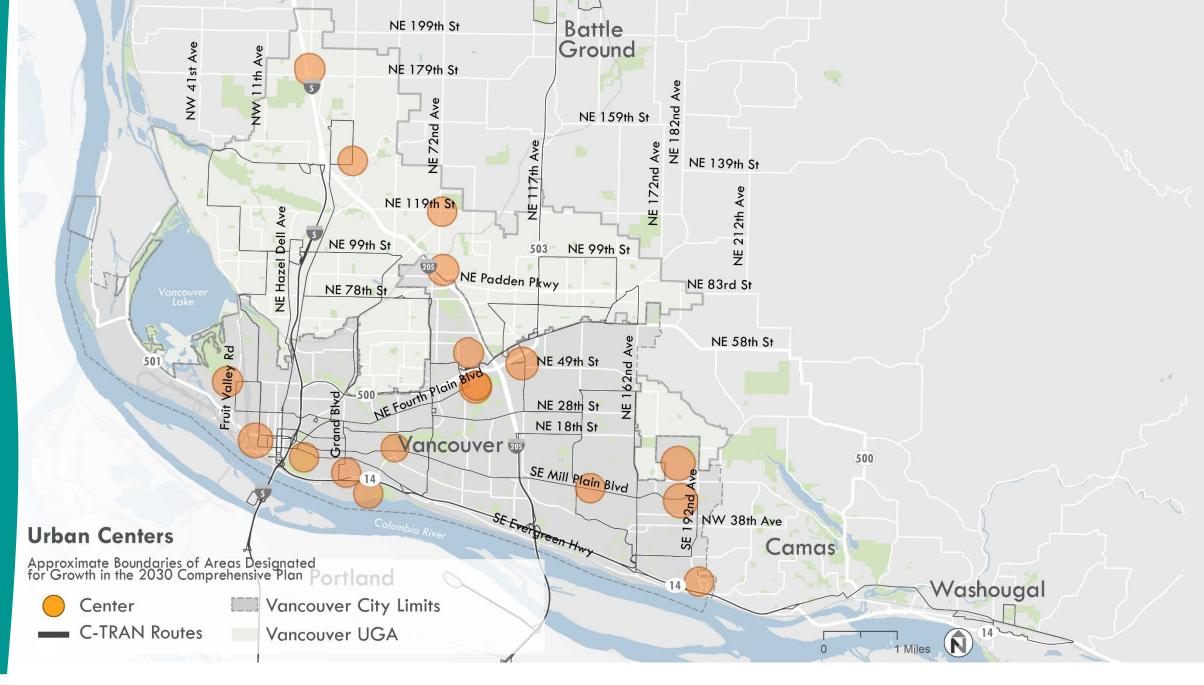






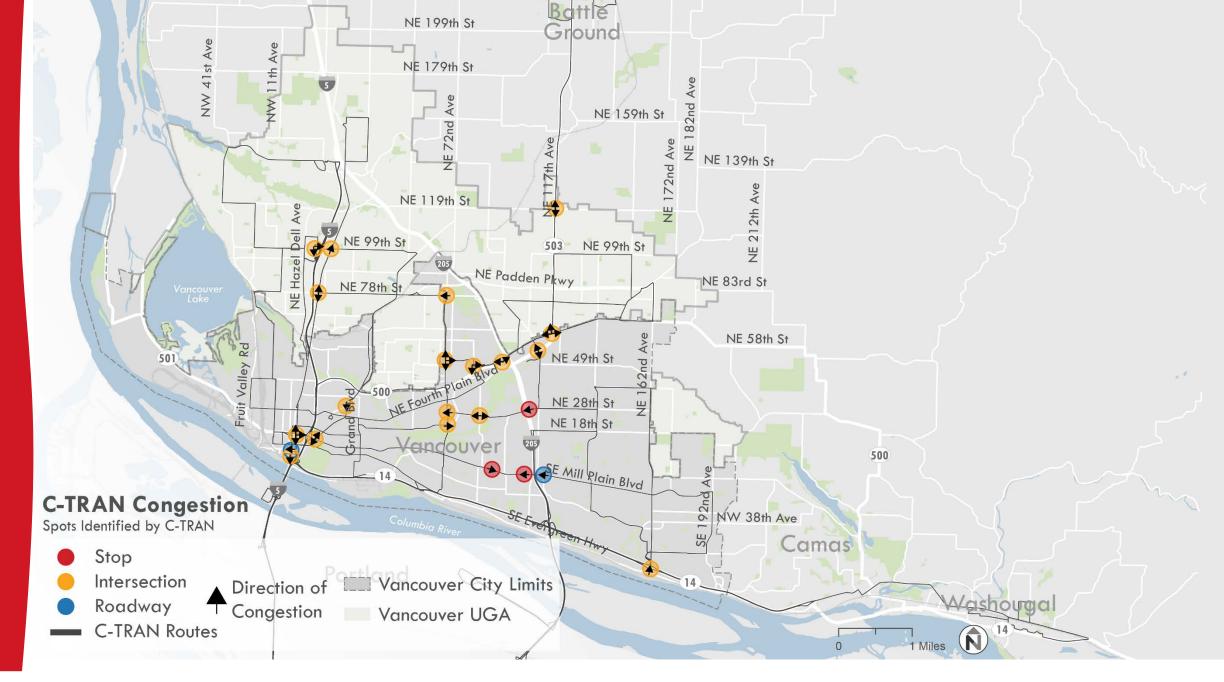
Local Growth Priorities

- To meet Vancouver's climate goals, many trips will need to use non-driving modes
 - Moving travel from driving to transit is key
- Denser development supports more frequent transit service, which in turn leads to higher ridership
- The Comprehensive Plan designates centers with the intent of:
 - Promoting livability and transit-supportive development patterns
 - Making efficient use of available land before greenfield development
 - Directing how future development should occur over the next 20 years
 - Focusing projected growth
- Each urban growth center will undergo, or has already undergone, sub area planning

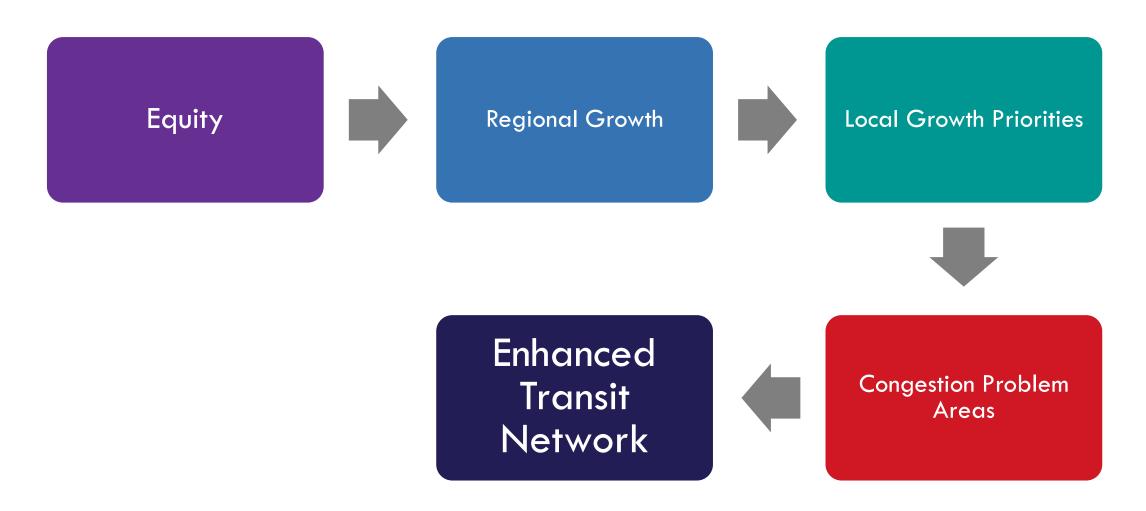


Congestion

- C-TRAN surveyed bus drivers to find out where they regularly encounter congestion that causes bus delay
- Highlighted Issues
 - Signal cycle time and priority vehicle movement
 - Bus pull-out causes delay in PM peak period
 - Intersection congestion
 - Delay caused by congestion on I-5
 - Fishers Landing Transit Center and Vancouver Mall cited as areas of delay

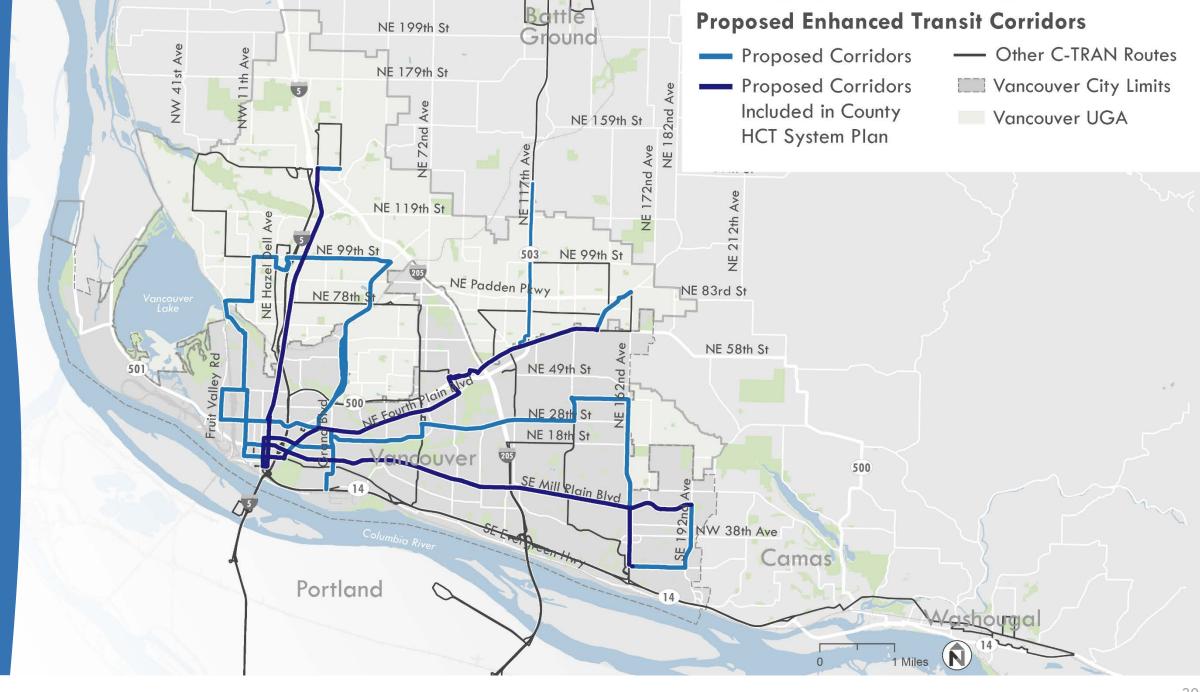


The Enhanced Transit Network



Proposed Enhanced Transit Network

- Enhanced transit corridors serve:
 - One or more existing frequent bus routes
 - Equity focus areas and essential routes
 - Areas where projected growth would require more service
 - Comprehensive plan centers
 - Congestion points
- The network is restricted to streets within the urban growth boundary



Discussion

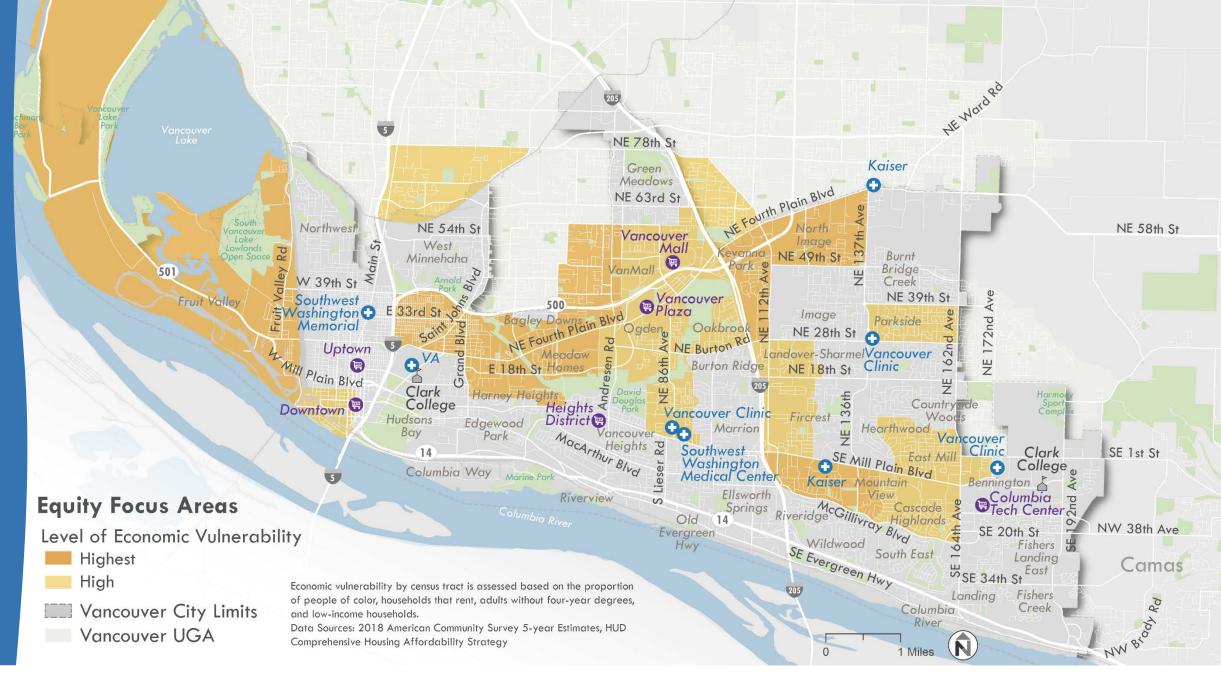
• What is our desired outcome for how the city can support high-quality transit?

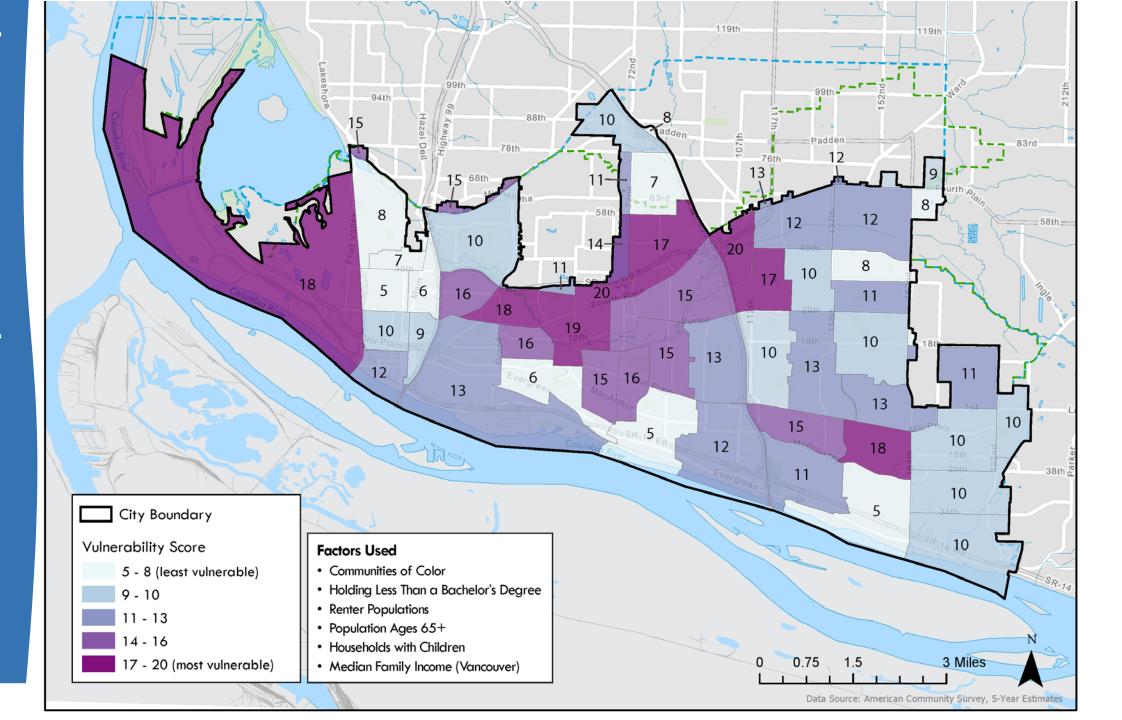
• What steps can we take to get there?

Equity Analysis Update

Background

- First Draft Equity Focus Areas: Census tracts in Vancouver where key demographic groups represent a greater share of the population
 - Black, Indigenous, and people of color
 - Households with low incomes (under 80% of the HUD-adjusted median family income, which accounts for the cost of housing)
 - Renters
 - Adults without a four-year degree
- Final analysis adds:
 - Population 65 and older
 - Households with children





Opportunities: Travel Patterns

About StreetLight

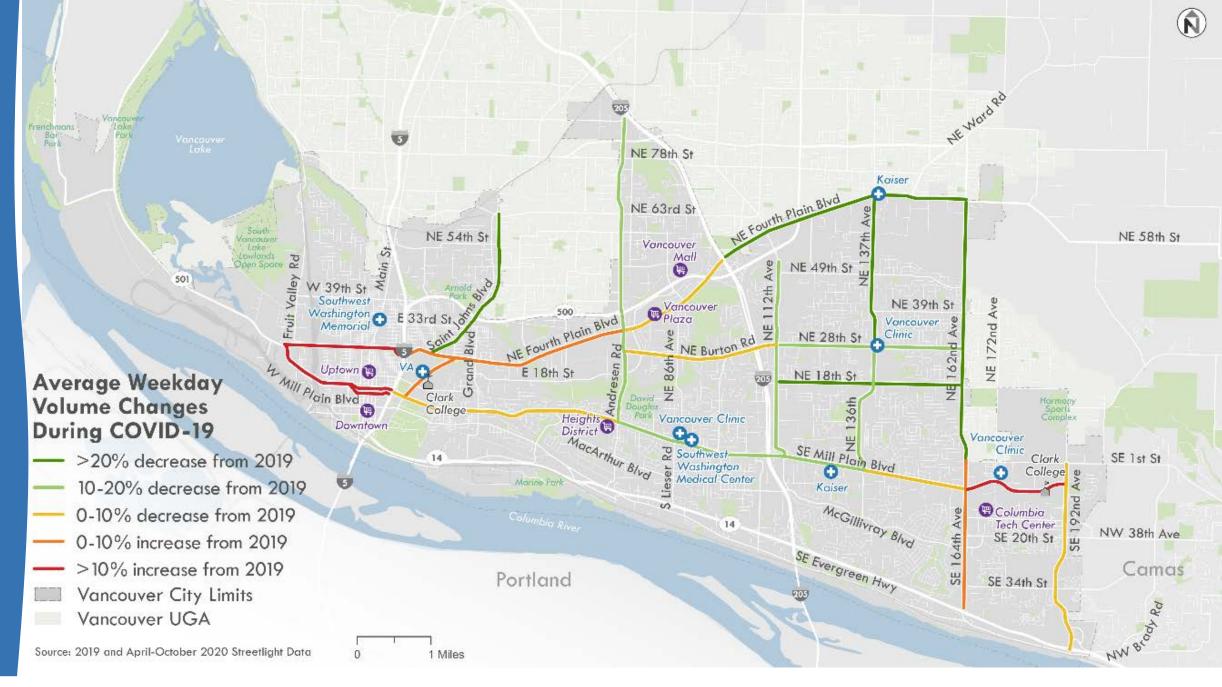
- StreetLight is a vendor that processes Big Data on transportation and travel patterns
- Their data products derive from two types of anonymous locational data: navigation-GPS data (from connected cars and trucks) and Location-Based Services data (from apps on from mobile devices)
- This data represents only a sample of the total people and vehicles that travel in any given area
 - StreetLight normalizes the data by population and traffic volumes
- Typically, the data is represented in a relative way (percent change or percent of total)
 to avoid giving the impression that it is a full count of all trips

Travel Patterns in the Pandemic - Auto

 We used data from Streetlight to compare traffic volumes from April-October of 2020 to volumes in 2019

- Weekday overall: 10% decrease
- Weekday AM peak: 30% decrease
- Weekday overall in downtown core (Mill Plain, Fourth Plain): 20% increase

The greatest relative decrease in volumes were on the northeast side of the city, including NE 18th Street, NE 162nd Avenue, and NE 137th Avenue

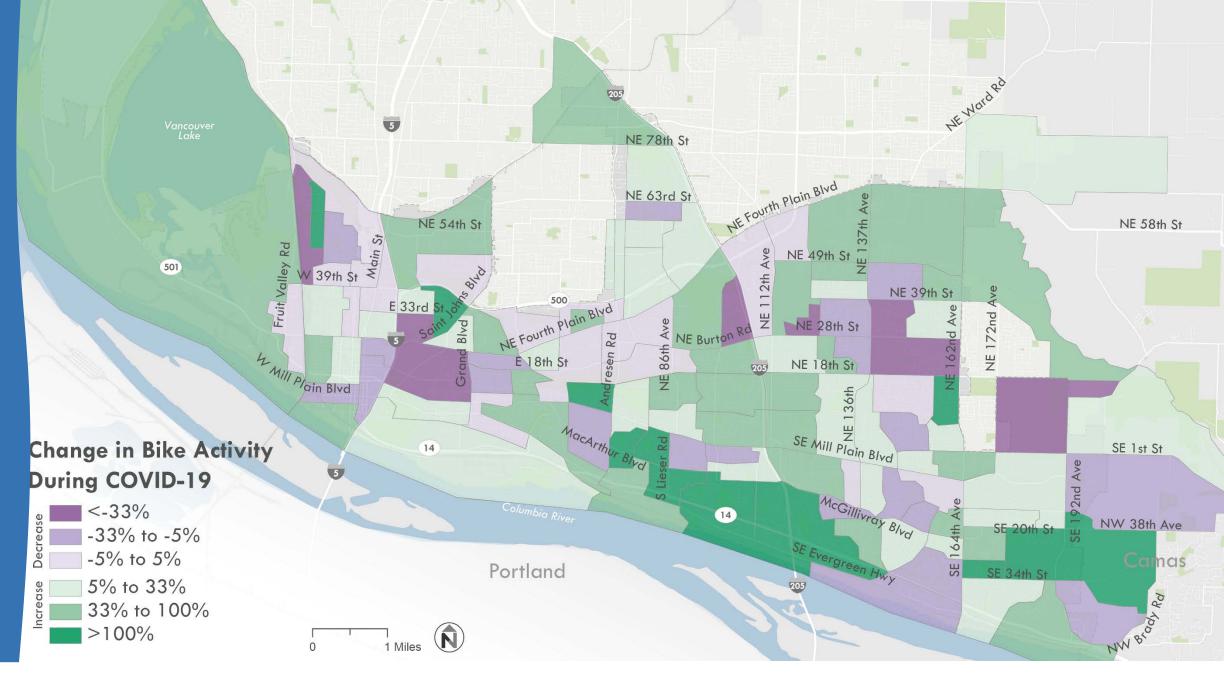


Travel Patterns in the Pandemic - Bike

 We used Streetlight to look at the change in bicycle activity between 2019 and April-October 2020

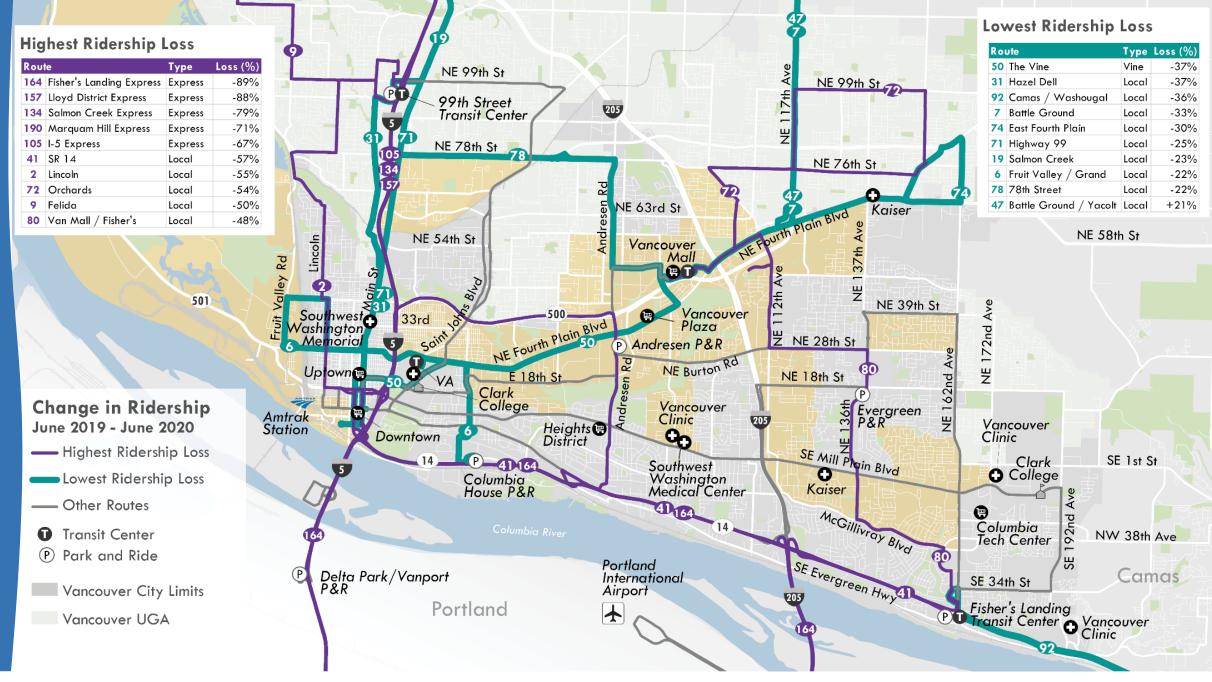
- On an average day bicycle trips were up 14% compared to 2019
 - Consistent with experience in other cities more neighborhood bike trips during stay at home

Midday (10 a.m. -3 p.m.) trips had the highest increase at 18%



Travel Patterns in the Pandemic - Transit

- C-TRAN's monthly ridership numbers were 43% lower in June 2020 than June 2019
- Riders during the pandemic likely included people that could not work from home,
 people traveling for medical appointments, and people traveling for errands
- Route 47 (Battle Ground/Yacolt) is the only route to experience an increase in ridership (+21%)
- The routes with the highest ridership loss were the express routes providing service to
 Portland, which likely served primarily people who could work from home
- The Vine, C-TRAN's BRT route, was in the group with the lowest ridership loss, meaning the Vine remained an essential service to many

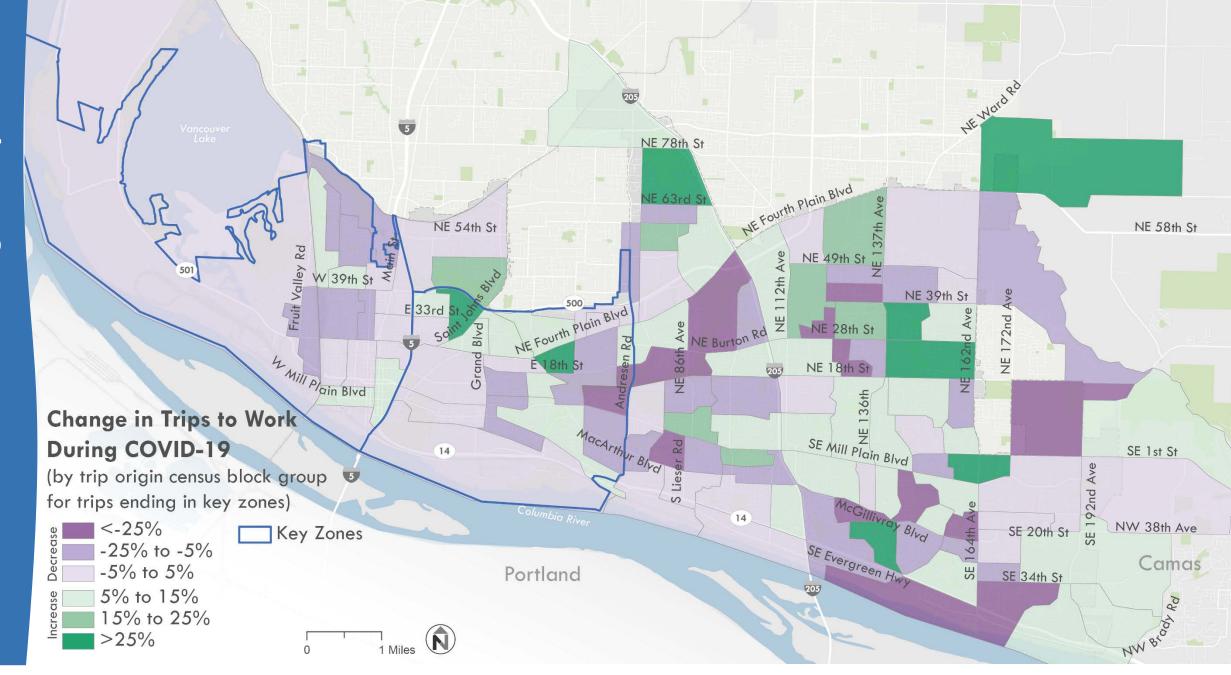


Travel Patterns in the Pandemic – Work Trips

 We used Streetlight to understand the change in home-based work trips to the downtown area (people traveling from home to work) from April-October 2020 compared to 2019

In central and west Vancouver, these trips declined significantly

 Areas that saw an increase in work trips are concentrated east of I-205 and further north



Discussion

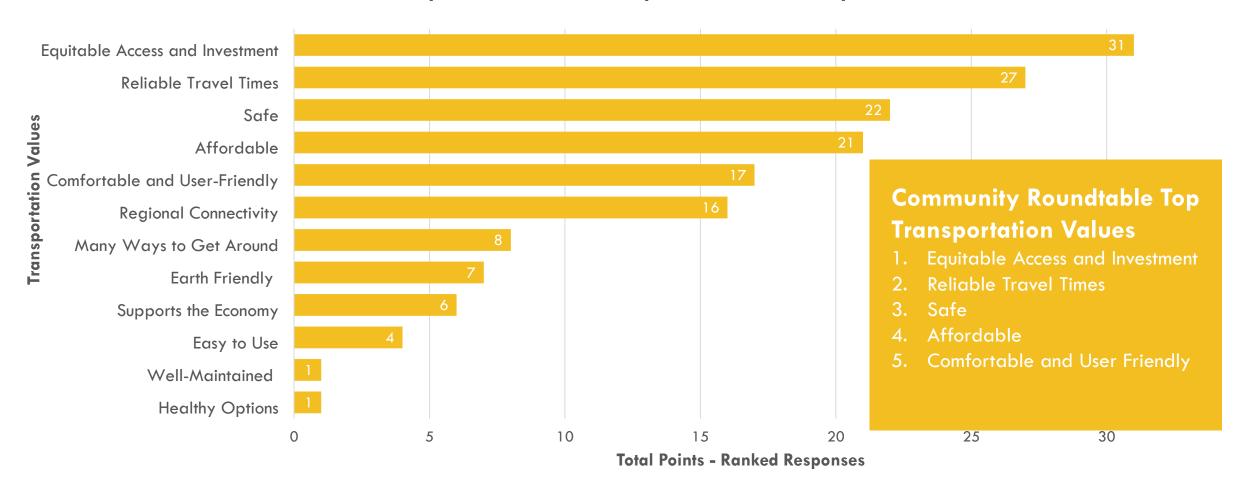
- Which of these trends have you seen continue through 2021?
- Which were short-lived?
- What kind of opportunities or consideration for the TSP does this information suggest to you?

4

Community Values Outreach

Community Roundtables – Response Summary

Community Roundtables - Transportation Value Responses





In-Person Outreach Events

Event	Date
East Vancouver Farmers Market	Aug 5, 2021
Movies in the Park	Aug 6, 2021
Downtown Farmers Market	Aug 14, 2021
Party in the Park	Aug 26, 2021
Downtown Farmers Market	Sept 25, 2021

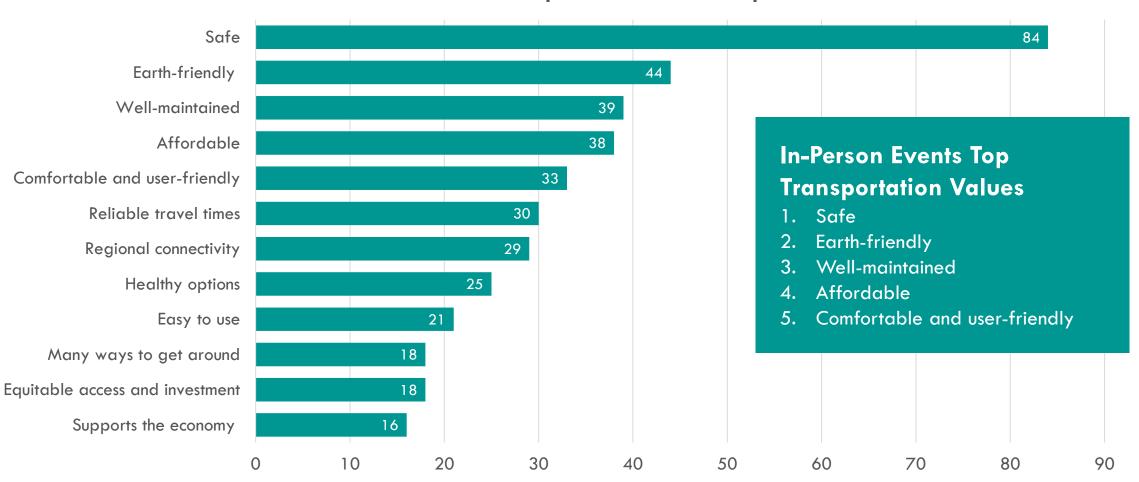






In-Person Outreach Events – Response Summary

In-Person Events – Transportation Values Responses





Transportation Values Survey

Aug – Oct 2021 on <u>BeHeard.org/VancouverMoves</u>

Share your feedback on values



1.	Please select your top three (3) transportation values from the wheel shown above.			
	☐ Earth-friendly	☐ Equitable access and investment		
	☐ Healthy options	☐ Comfortable and user-friendly		
	☐ Well-maintained	□ Safe		
	☐ Easy to use	☐ Many ways to get around		
	☐ Regional connectivity	☐ Reliable travel times		
	☐ Affordable	$\ \square$ Supports the economy		
		ise note: Your top three values does not imply that the other values on the wheel are not important not be considered in the Transportation System Plan. The plan will address all of the values show		
2.	Please explain your answers in the s	ase explain your answers in the space below.		
	Please add your comment here			

Translations







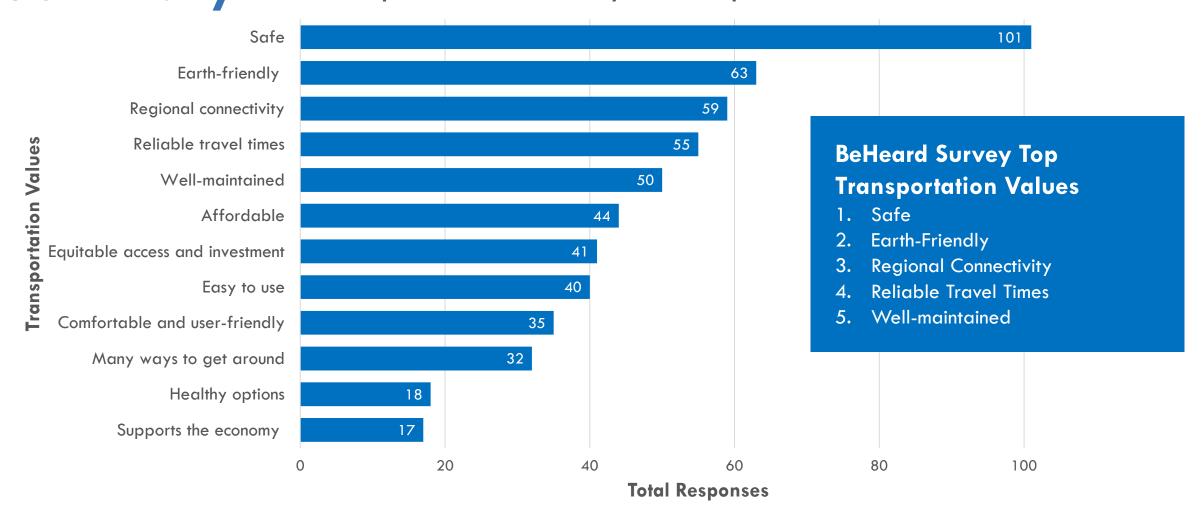






Transportation Values Survey – Response

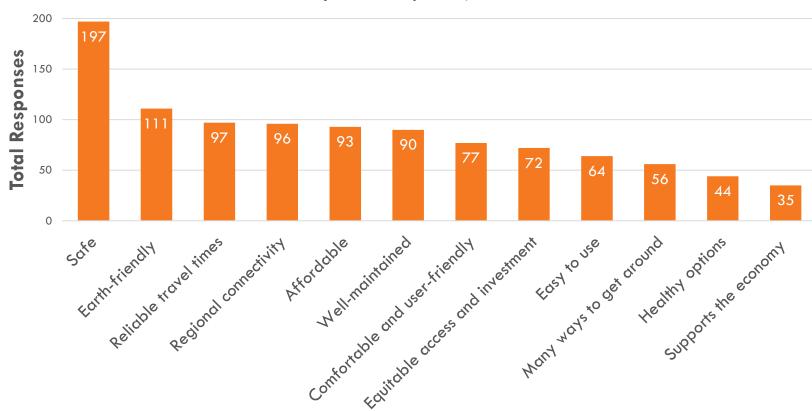




Transportation Values — Total Combined Feedback*

Transportation Values - Response Totals

May 28 - Sept 30, 2021



Transportation Values

Top Transportation Values

- 1. Safe
- 2. Earth Friendly
- 3. Reliable Travel Times
- 4. Regional Connectivity
- 5. Affordable

^{*} Accounts for feedback from Community Roundtables, In-Person Outreach, and Transportation Values Survey

Questions and Discussion Thank You!

