

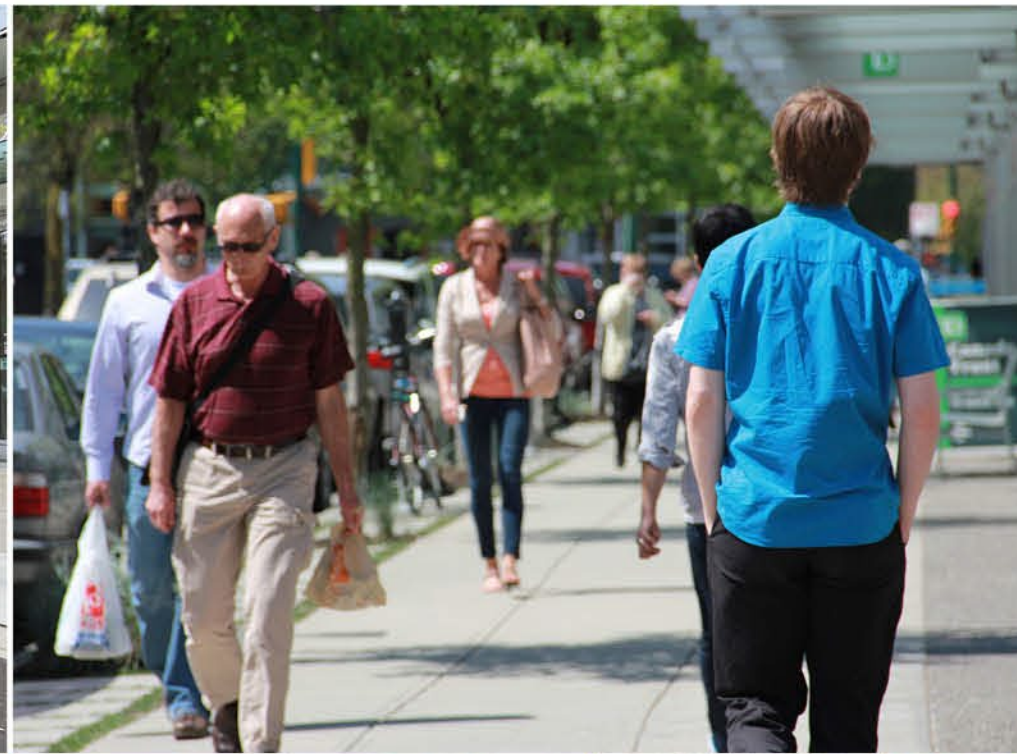


Transportation, Public Space & Street Use Update

May 31, 2023 | Paul Storer & Lisa Parker

Introduction

Streets are for transportation



Streets are places for public life

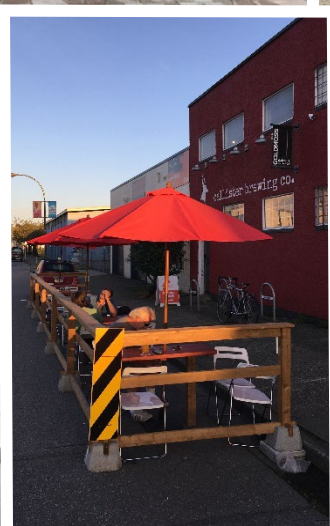
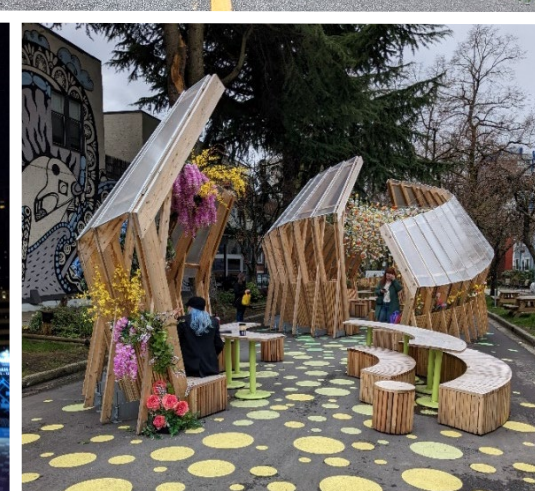
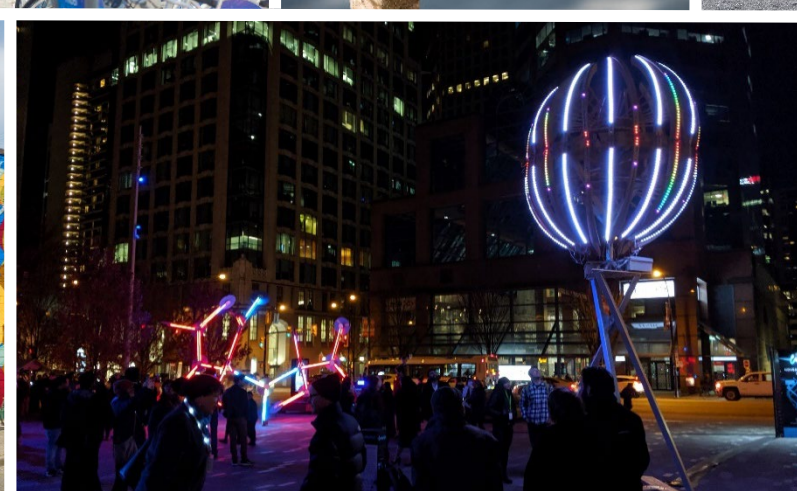
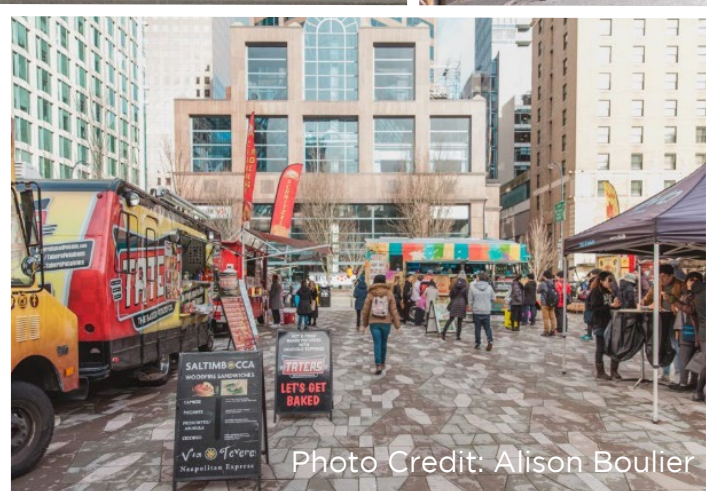
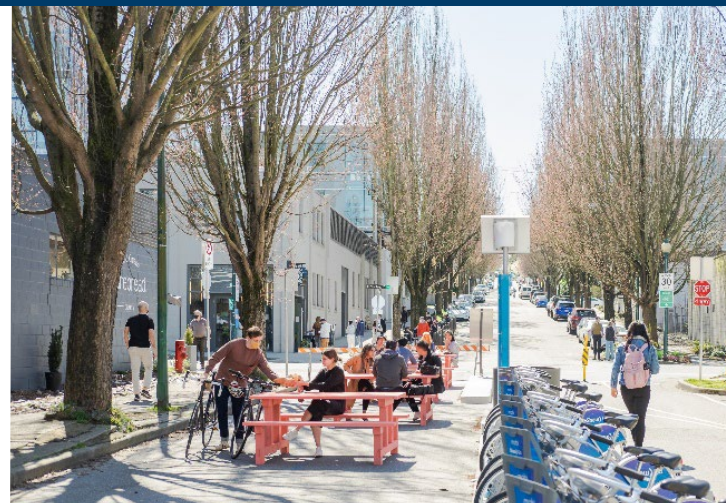
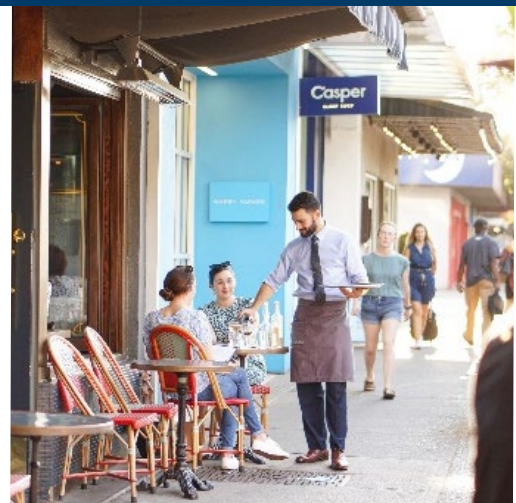


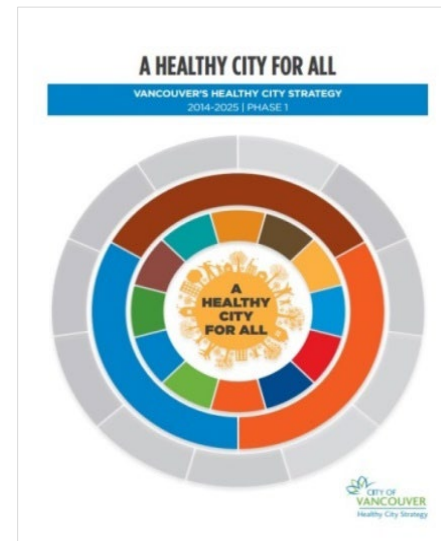
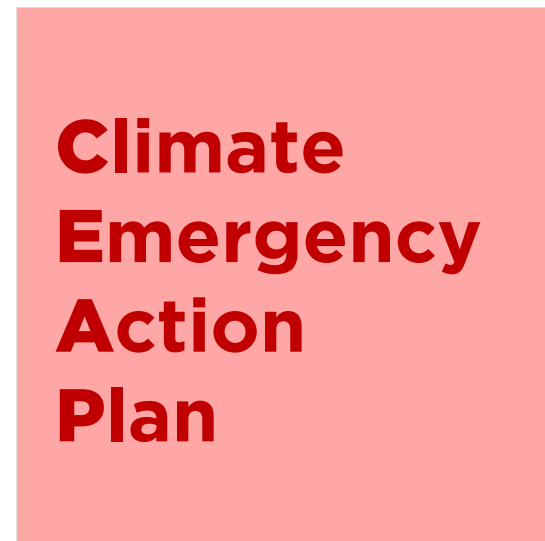
Photo Credit: DTES Women's Centre

Streets can support nature and manage rainwater



Key policies

Transportation 2040, Vancouver Plan, and a suite of city and regional plans lay the foundation for transportation and public space planning in Vancouver



Transportation Policy, Targets & Trends

Transportation 2040



- **Clear vision and priorities**
- **Goals and targets**
- **Policies and actions**

- **Address challenges** including:
 - Growing city with limited road space
 - Health and safety
 - Climate change
 - Affordability and accessibility
 - Economy and public life

People-moving capacity

PEOPLE-MOVING CAPACITY: Vancouver Urban Transportation Modes (in persons per hour per direction - 3 metre lane width)



PRIVATE MOTOR VEHICLE
700—1,100

Typical private motor vehicle capacity on Vancouver arterial streets and potential capacities for walk, bike and transit



REGULAR BUS
1,000—2,000



2-WAY PROTECTED BIKE LANE
2,000—3,000



B-LINE BUS + RAPID BUS
2,000—4,000



WEST COAST EXPRESS
3,000—5,000

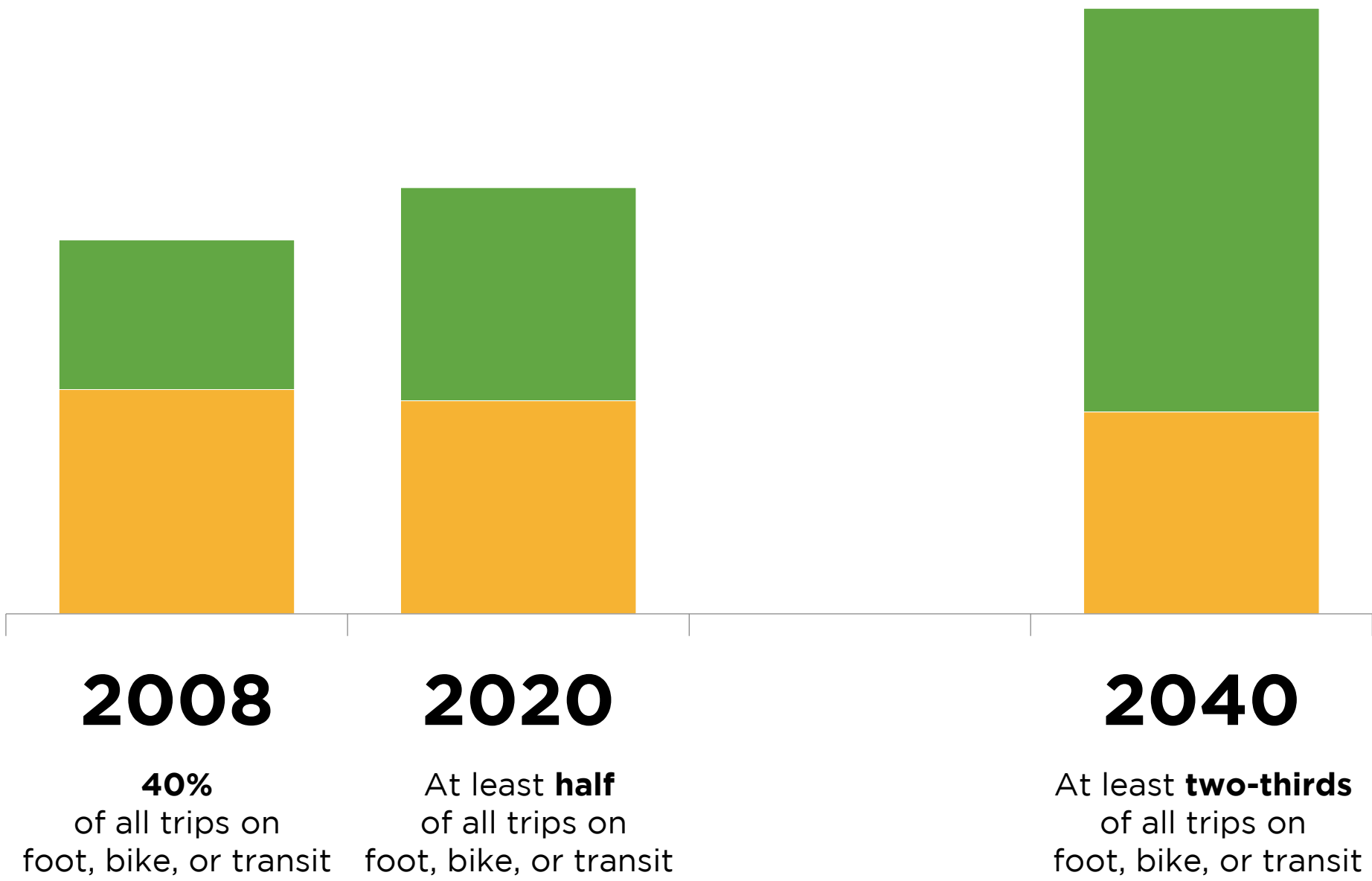


SIDEWALK
5,000—6,500



SKYTRAIN
16,000—26,000

T2040 mode share and safety targets



Sustainable Mode Share

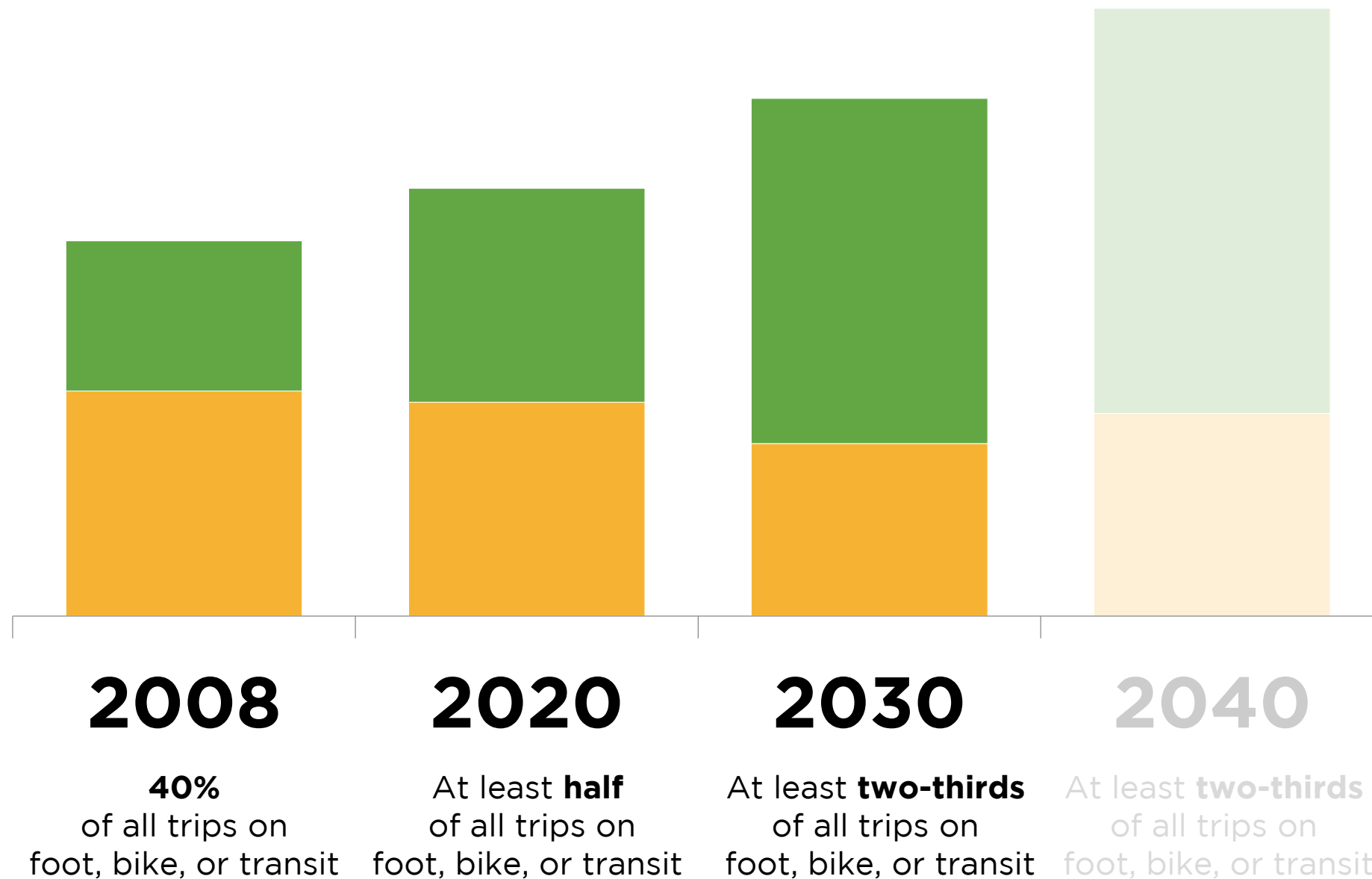
- 50% by 2020
- Two-thirds by 2040

Safety

- Eliminate traffic-related fatalities and serious injuries

■ Walk + Bike + Transit ■ Motor Vehicle

Updated mode share target



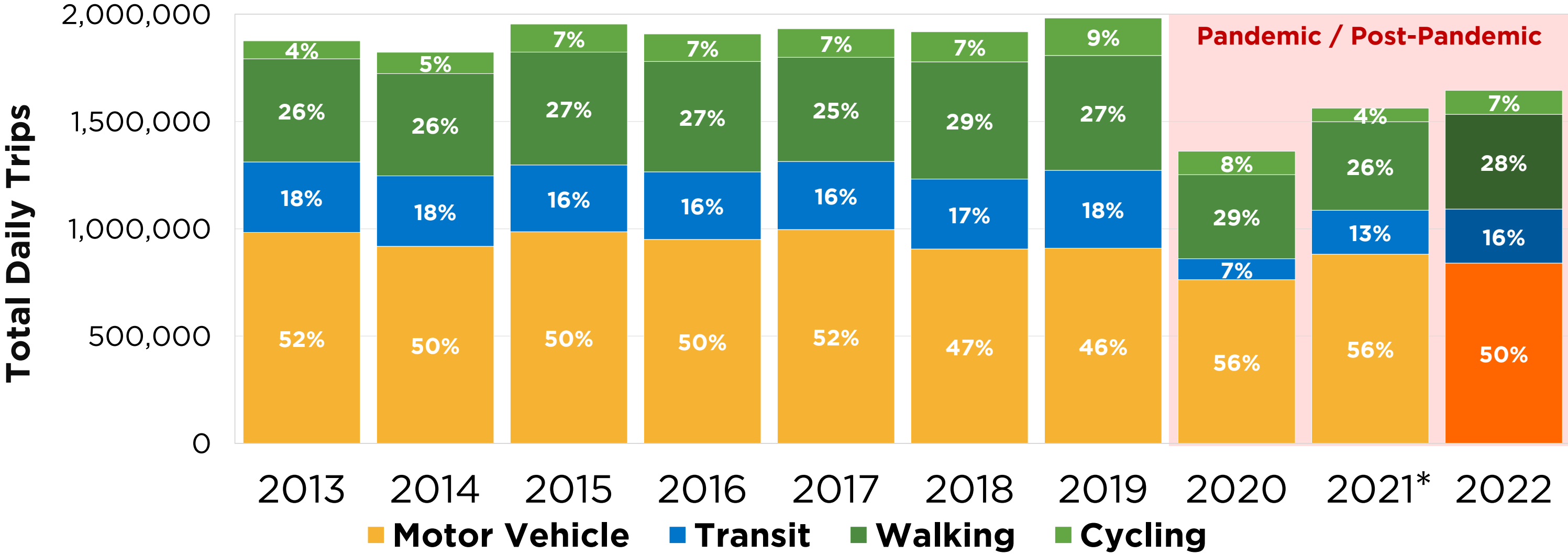
Climate Emergency accelerates target

- Two-thirds of all trips on foot, bike, or transit by ~~2040~~ **2030**

■ **Walk + Bike + Transit** ■ **Motor Vehicle**

Sustainable mode share rebounding

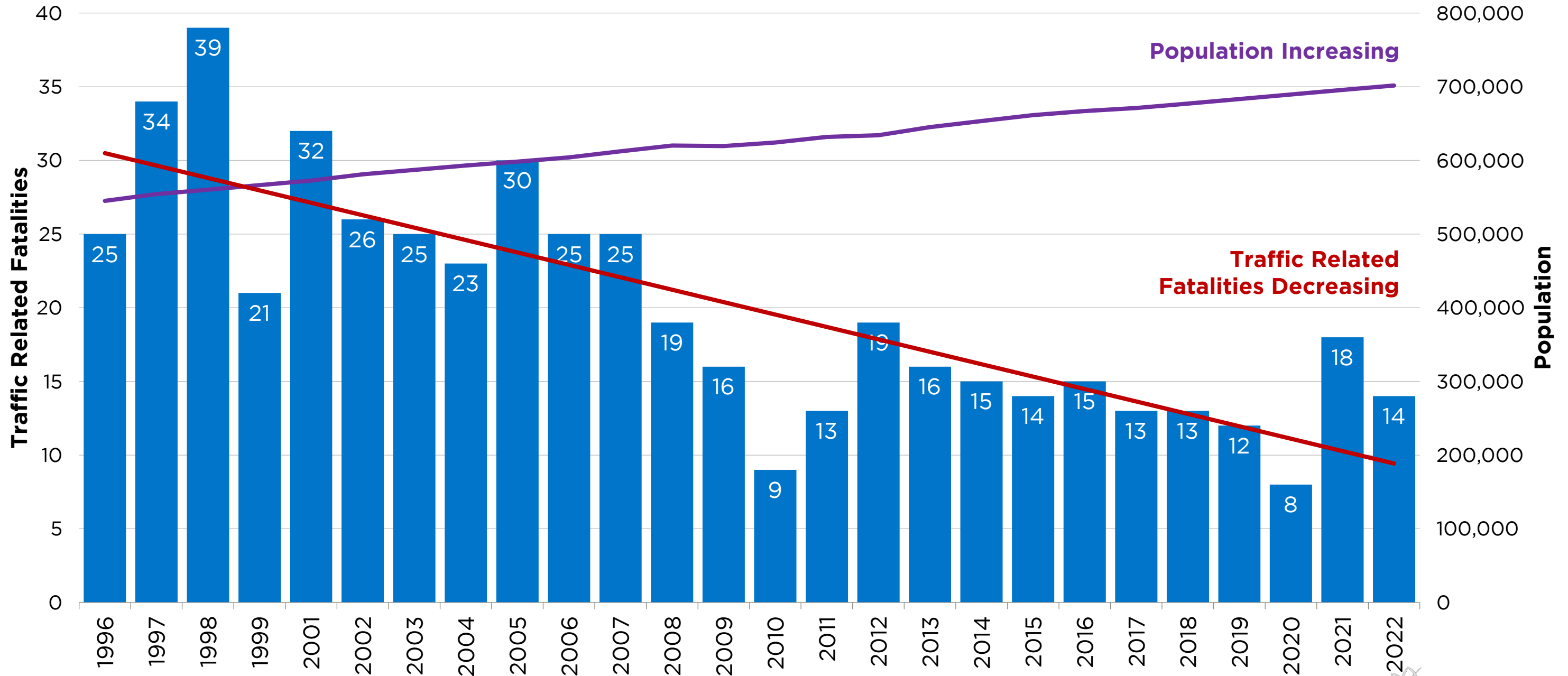
Daily trip volumes growing, still 17% below pre-pandemic numbers.



Source: City of Vancouver panel surveys. Note: Significant changes beginning in 2020 due to global pandemic.

*Lower active travel counts in 2021 due to extreme weather conditions / atmospheric river at time of survey.

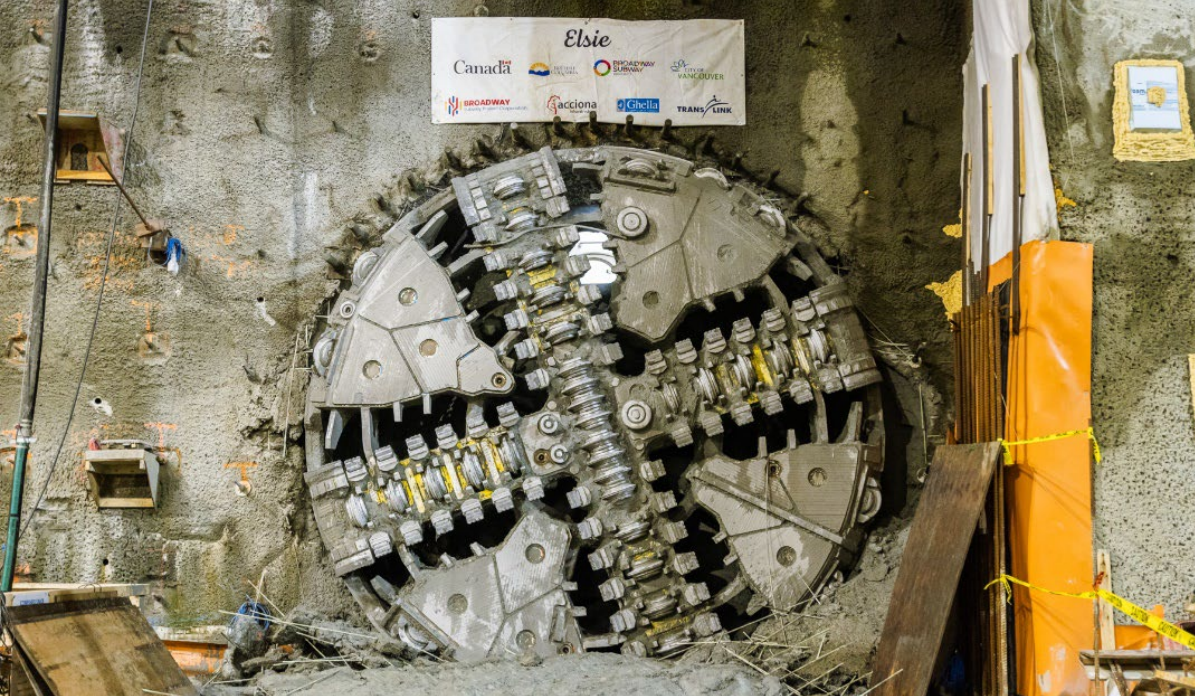
Traffic-related fatalities decreasing



Source: VPD traffic fatality data

Focus: Transit

Broadway Subway update



On track to open in 2026

Construction updates

- Traffic decking at station areas will be complete by summer
- Tunnel boring machines launched and continuing progress
- Ongoing construction of elevated guideway portion of track and six underground stations

Connection with Broadway Plan

- Staff working on a Broadway Plan public realm plan, plus detailed Broadway streetscape plan
- Engagement expected to begin this fall with completion in mid-2024



Ongoing work to support UBC extension



**Coordination and integration
with Jericho Lands Planning**
(station locations endorsed by Council)



**Working with Province to develop
reference case design
and business case inputs**

Faster implementation of bus priority

From 2019 to 2022, we've expanded our toolkit to deliver projects faster with interim materials and trials.



- 11** interim bus bulbs
- 22** km of new bus lanes
- 127** expanded hours of bus lane-km
- 8** red bus zones
- 24** right-turn pockets
- 1** route upgraded to longer buses



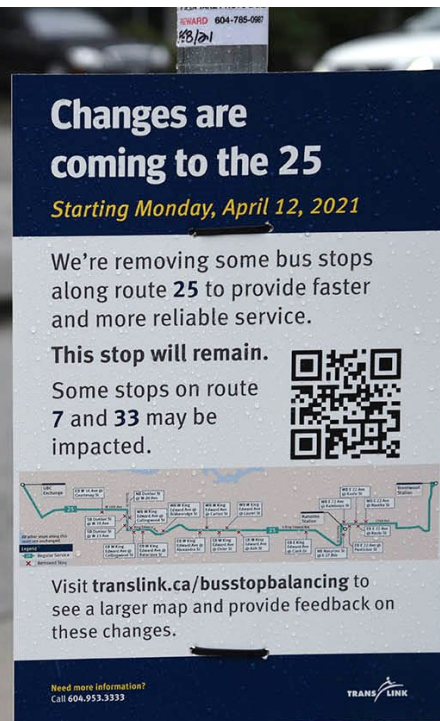
Improving bus travel times

TransLink's Bus Stop Balancing program is one of the **most effective ways to reduce bus travel times**

Bus stop balancing on 5 routes since 2020:

Up to 10 minutes roundtrip travel time savings

Over 90% of riders continue using their regular stop

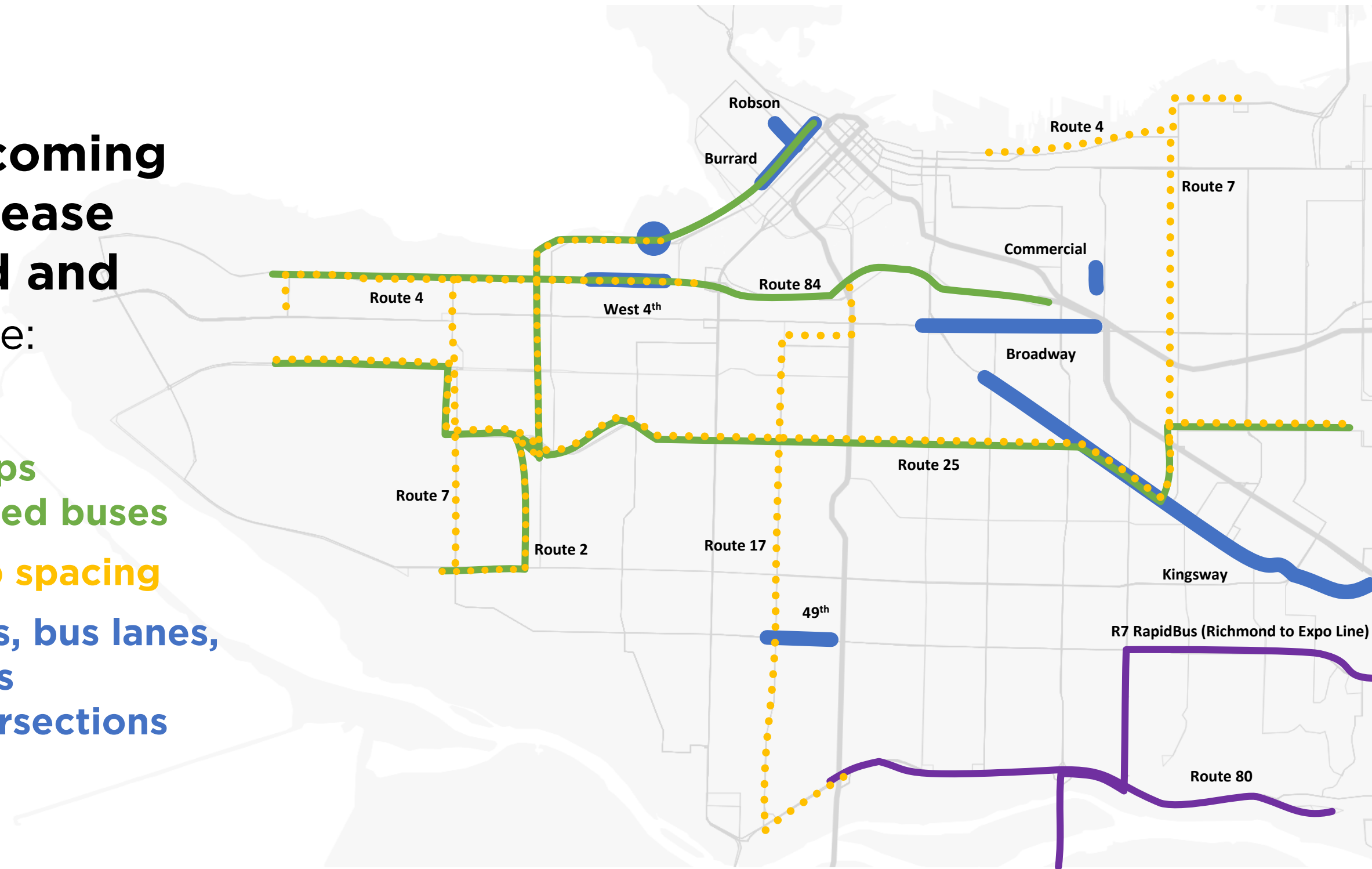


| Bus Route | Roundtrip Travel Time Savings |
|---|---|
| 002 Macdonald/Downtown | 6-9% (up to 4-6 min) during weekday peaks and weekends |
| 017 Oak / Downtown | 4-6 % (up to 3-5 min) during weekdays 9% (up to 8 min) on weekends |
| 25 Brentwood Station / UBC | 3-7% (up to 4-10 min) on weekdays and weekends |
| 004 Powell / Downtown / UBC 007 Nanaimo Station / Dunbar | 7% (up to 5 min) during peaks |

Bus projects underway

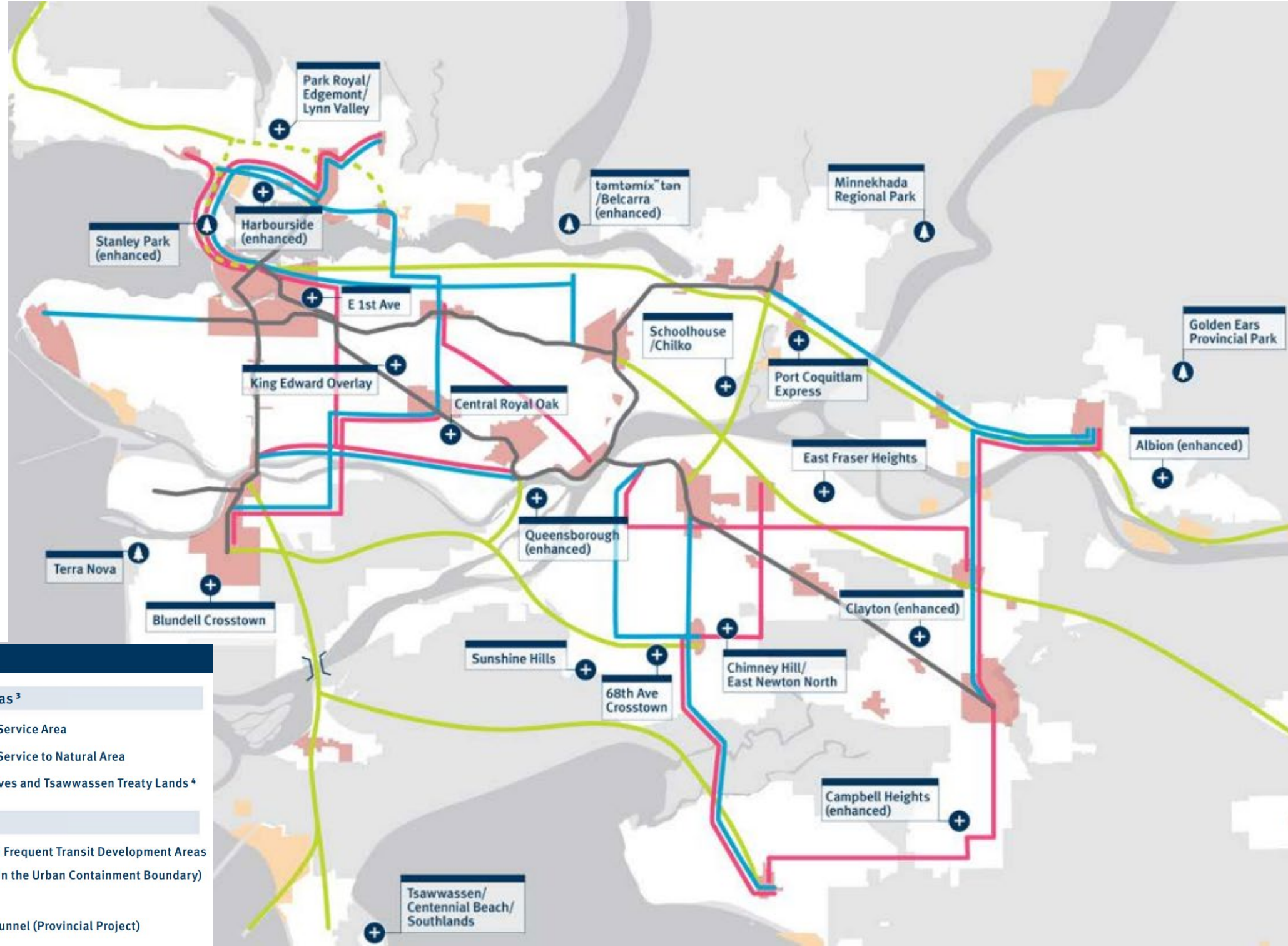
Recent and upcoming projects to increase capacity, speed and reliability include:

- **New bus routes**
- **Upgrading bus stops for longer articulated buses**
- **Balancing bus stop spacing**
- **Installing bus bulbs, bus lanes, and prioritizing bus movements at intersections**



Regional transit planning

TransLink's
10 year regional
priorities
identifies
major investments in
faster, more reliable,
expanded service



Legend

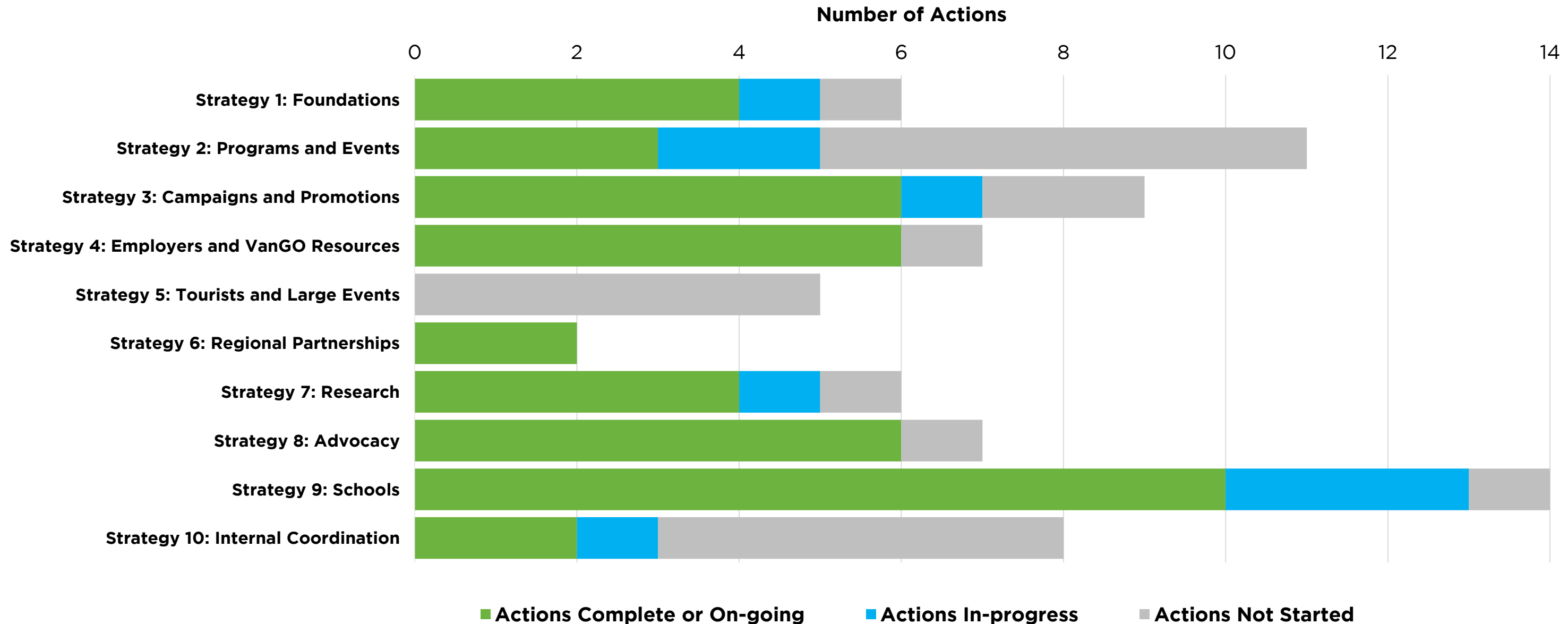
| | |
|---|--|
| Major Transit Network | |
| | Existing / Committed ¹ |
| | 10-Year Priority |
| Express: Regional and Interregional | |
| | Existing / 10-Year Priority ² |
| RapidBus | |
| | 10-Year Priority |
| New or Enhanced Service Areas ³ | |
| | New or Enhanced Service Area |
| | New or Enhanced Service to Natural Area |
| | First Nation Reserves and Tsawwassen Treaty Lands ⁴ |
| Other | |
| | Urban Centres and Frequent Transit Development Areas |
| | Urban Areas (within the Urban Containment Boundary) |
| | Non-Urban Land |
| | New Highway 99 Tunnel (Provincial Project) |

Focus:
Neighbourhoods, Schools, Safety & Accessibility

TDM Action Plan progress update

52 actions (out of 75) are **on-going/complete** or **in progress**

Upcoming initiative: Vancouver City Centre Bike Valet Pilot



School Active Travel Program update

- School Travel Planning & Infrastructure Improvements
- School Streets
- Active Travel Education
- Walking School Buses
- Mobi Community Pass Pilot

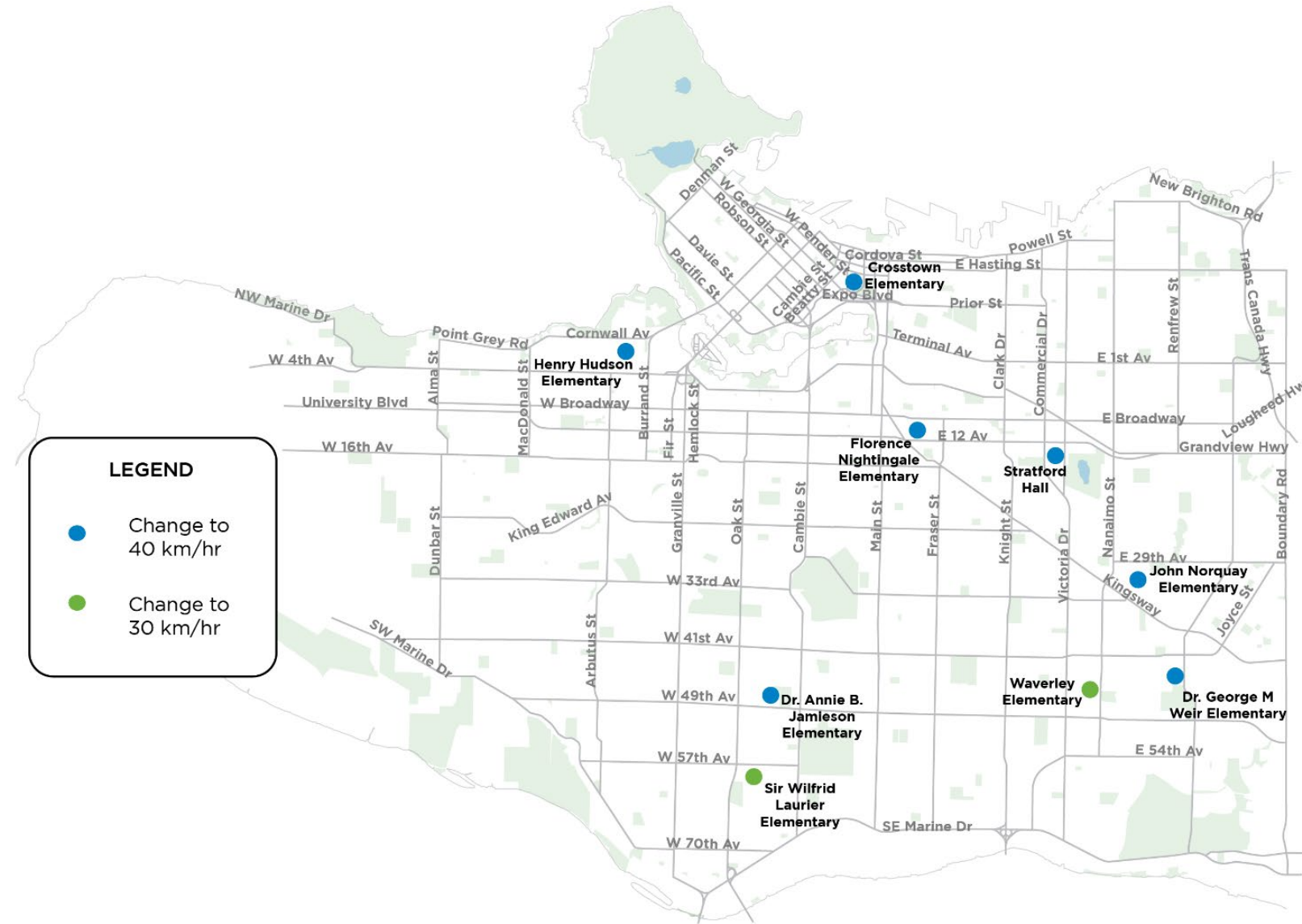


School speed reduction

- **Reduced speed limits at nine elementary schools**
 - Arterial roads (50 to **40 km/hr**)
 - Collector roads (50 to **30 km/hr**)
- Report back to Council spring 2024



Crosstown Elementary School



- Launched: March 27

- In effect: school days 8am-5pm

Neighbourhood Traffic Management

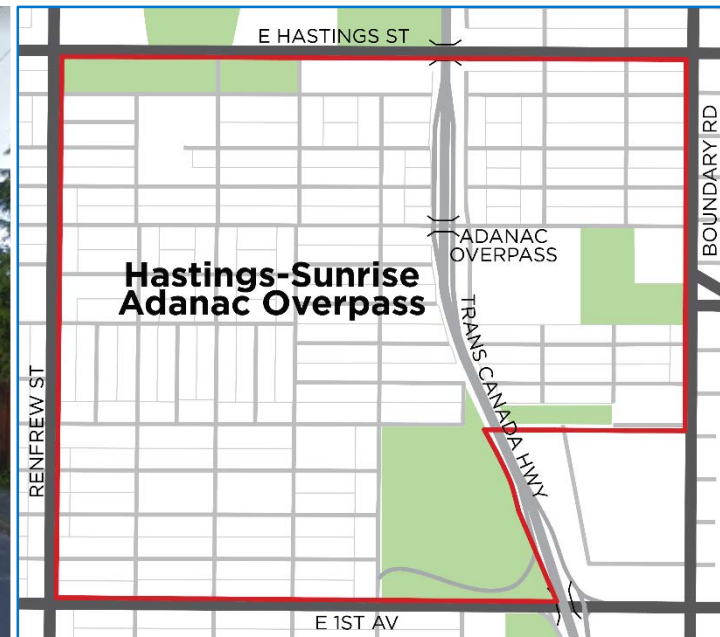
Implement
traffic calming measures
with **safety issues** like
speeding and **high vehicle volumes**
on **local streets**

PILOT NEIGHBOURHOODS



Strathcona

- Engagement completed spring 2022
- Implementation imminent



Hastings-Sunrise Adanac Overpass

- Phase 1 engagement completed this April
- Phase 2 engagement in Q3/Q4 2023

Other walking and rolling improvements

| New Infrastructure or Intervention | 2021 | 2022 |
|------------------------------------|------|------|
| Full signals | 2 | 0 |
| Walking and/or cycling signals | 3 | 2 |
| Left /right turn phases | 6 | 15 |
| Rectangular rapid flashing beacons | 9 | 10 |
| 1m/s walk rates applied | 29 | 31 |
| Accessible pedestrian signals | 12 | 8 |
| Audible signals | 2 | 5 |
| Leading pedestrian intervals | 12 | 16 |
| Curb ramps | 277 | 278 |

Continuing to deliver on safe and accessible infrastructure



Focus: Active Mobility & Greenways

Active transportation network today

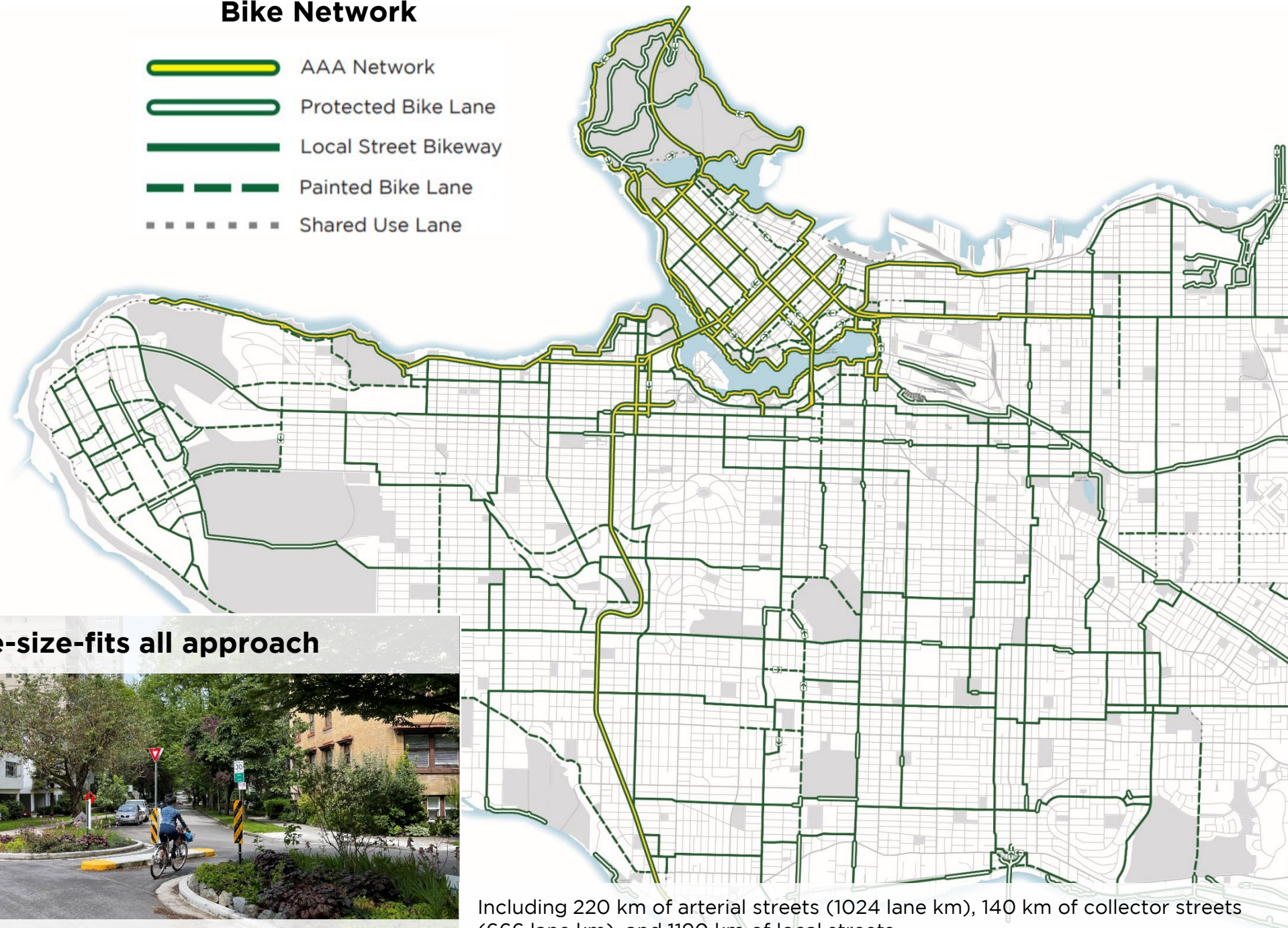
1,500+ km of city streets*
(over 2,800 lane km)

2,200+ km of city sidewalks
(~80% complete)

300+ km total bike network
(~30% all ages and abilities)

Bike Network

- AAA Network
- Protected Bike Lane
- Local Street Bikeway
- Painted Bike Lane
- Shared Use Lane



Designing for all ages and abilities: no one-size-fits all approach



Physical protection on busy streets

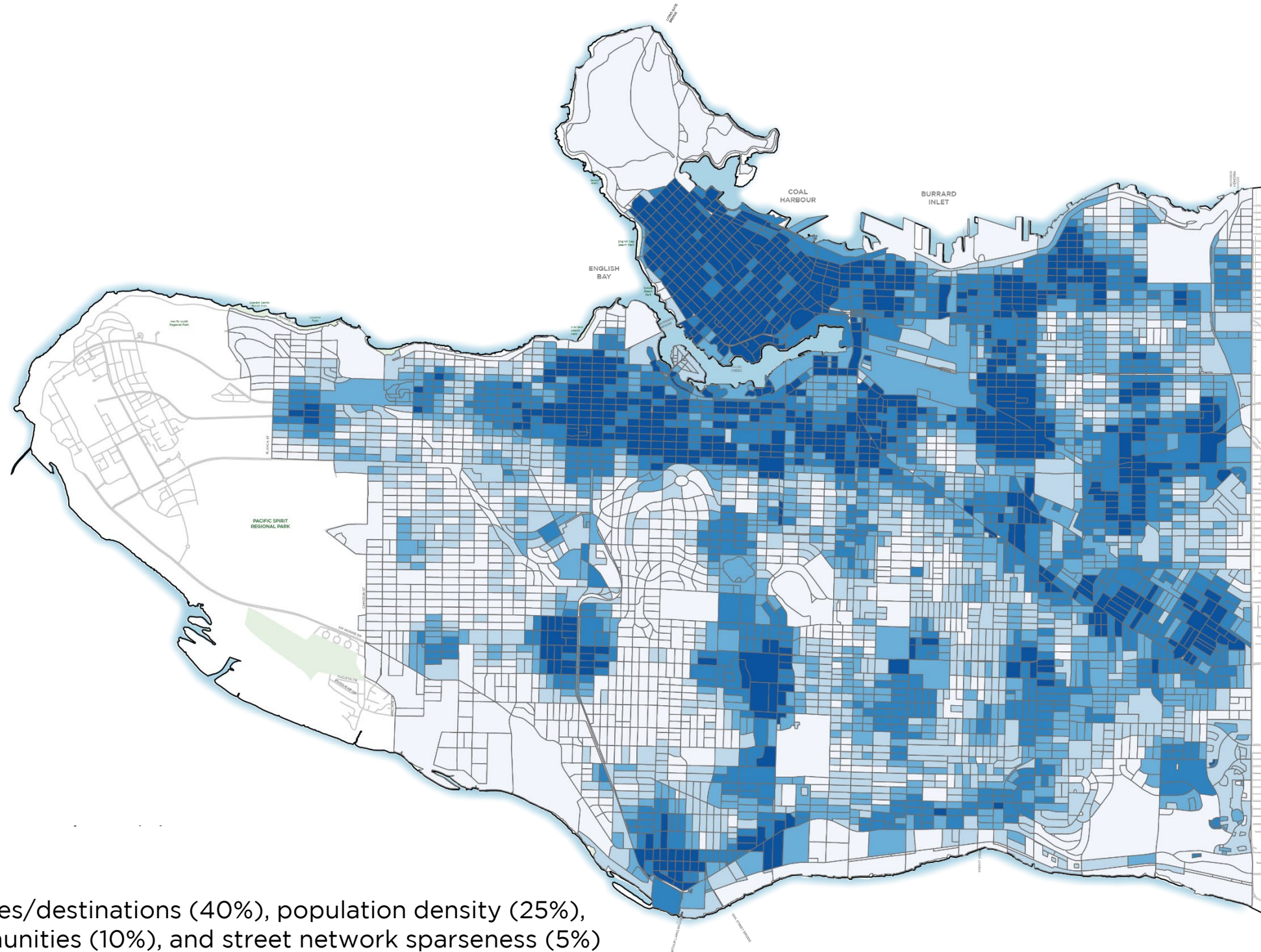
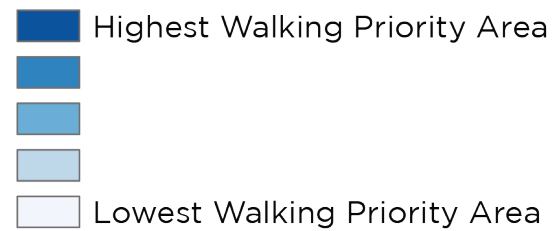


Traffic calming on quiet shared streets

Including 220 km of arterial streets (1024 lane km), 140 km of collector streets (666 lane km), and 1190 km of local streets.
Not including 770 km of laneways or 150 km of Parks/non-City streets)

Active Mobility Plan – Walking Priority Areas

Active Mobility Plan - Walking Priority Areas 2023-2027



Criteria used to identify priority areas: complete communities/destinations (40%), population density (25%), transit proximity (20%), disproportionately impacted communities (10%), and street network sparseness (5%)

Active Mobility Plan – Major Corridors

Major Pedestrian / Public Realm Improvements

- 1. West End Commercial Streets
- 2. Granville – Downtown
- 3. Water
- 4. 4th Ave
- 5. Granville – South
- 6. Broadway
- 7. Main – Mt Pleasant
- 8. Main – Punjabi Market
- 9. Commercial
- 10. East Fraser Lands

Complete Streets

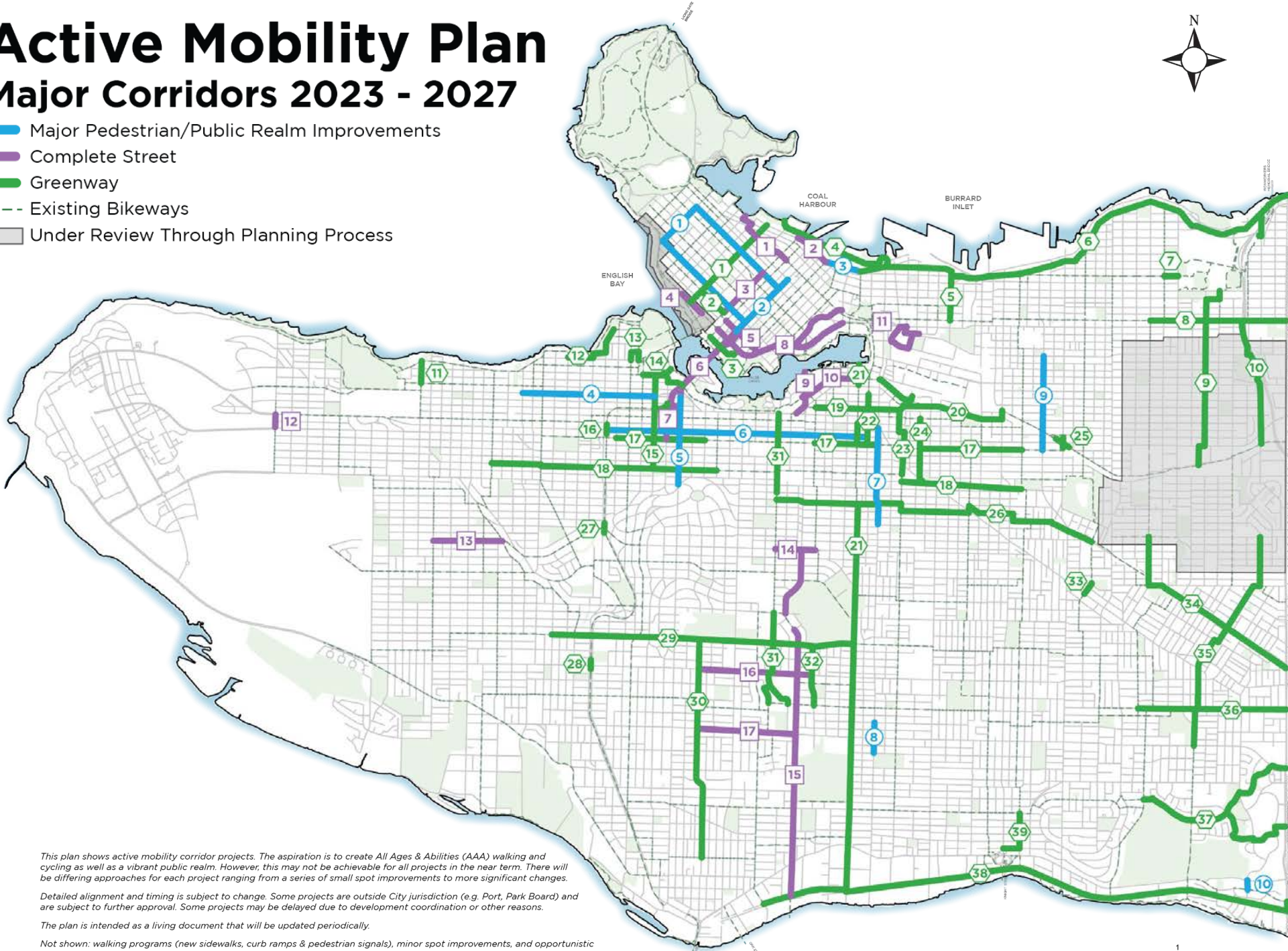
- 1. Melville
- 2. Cordova
- 3. Burrard
- 4. Pacific
- 5. Drake
- 6. Granville Connector
- 7. Fir Ramp
- 8. Pacific - Expo
- 9. Cambie Ramp
- 10. 1st Ave
- 11. New St. Paul's Hospital Streets
- 12. Blanca
- 13. King Edward – Dunbar
- 14. King Edward – Cambie
- 15. Cambie
- 16. 41st Ave
- 17. 49th Ave

Greenways

- 1. Bute
- 2. Burnaby
- 3. Beach
- 4. Waterfront Road
- 5. Hawks
- 6. Portside
- 7. Pandora
- 8. Adanac
- 9. Eastside Crosscut
- 10. Skeena
- 11. Highbury
- 12. Seaside – Kitsilano Beach
- 13. Greer – Cypress – Chestnut
- 14. Seaside Bypass – 1st Ave
- 15. Pine
- 16. Arbutus Greenway at Broadway
- 17. 10th Ave
- 18. 14th Ave – 15th Ave
- 19. 5th Ave
- 20. Central Valley Greenway
- 21. Ontario
- 22. Quebec
- 23. Prince Edward
- 24. St. George
- 25. Central Valley Greenway at Victoria
- 26. 18th Ave – 19th Ave – Stainsbury
- 27. Arbutus Greenway at King Edward
- 28. Arbutus Greenway at 41st Ave
- 29. 37th Ave
- 30. Hudson
- 31. Heather
- 32. Alberta
- 33. Gladstone
- 34. BC Parkway
- 35. Ker – McHardy
- 36. 45th Ave
- 37. Masumi Mitsui
- 38. Kent
- 39. Borden

Active Mobility Plan Major Corridors 2023 - 2027

- Major Pedestrian/Public Realm Improvements
- Complete Street
- Greenway
- - - Existing Bikeways
- ▭ Under Review Through Planning Process



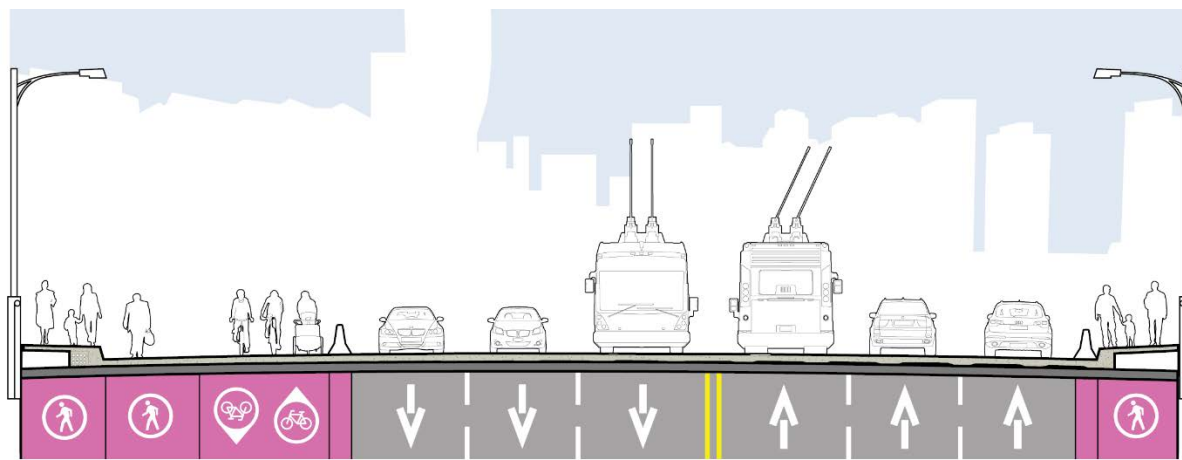
This plan shows active mobility corridor projects. The aspiration is to create All Ages & Abilities (AAA) walking and cycling as well as a vibrant public realm. However, this may not be achievable for all projects in the near term. There will be differing approaches for each project ranging from a series of small spot improvements to more significant changes. Detailed alignment and timing is subject to change. Some projects are outside City jurisdiction (e.g. Port, Park Board) and are subject to further approval. Some projects may be delayed due to development coordination or other reasons. The plan is intended as a living document that will be updated periodically. Not shown: walking programs (new sidewalks, curb ramps & pedestrian signals), minor spot improvements, and opportunistic improvements through redevelopment and capital coordination.

Project Highlights

Granville Connector

Construction under way
Complete by Q4 2024

- All ages & abilities walking, rolling & cycling connection across bridge
- Safe & accessible connections at bridge ends
- North loops replaced with urban street grid



Portside Greenway

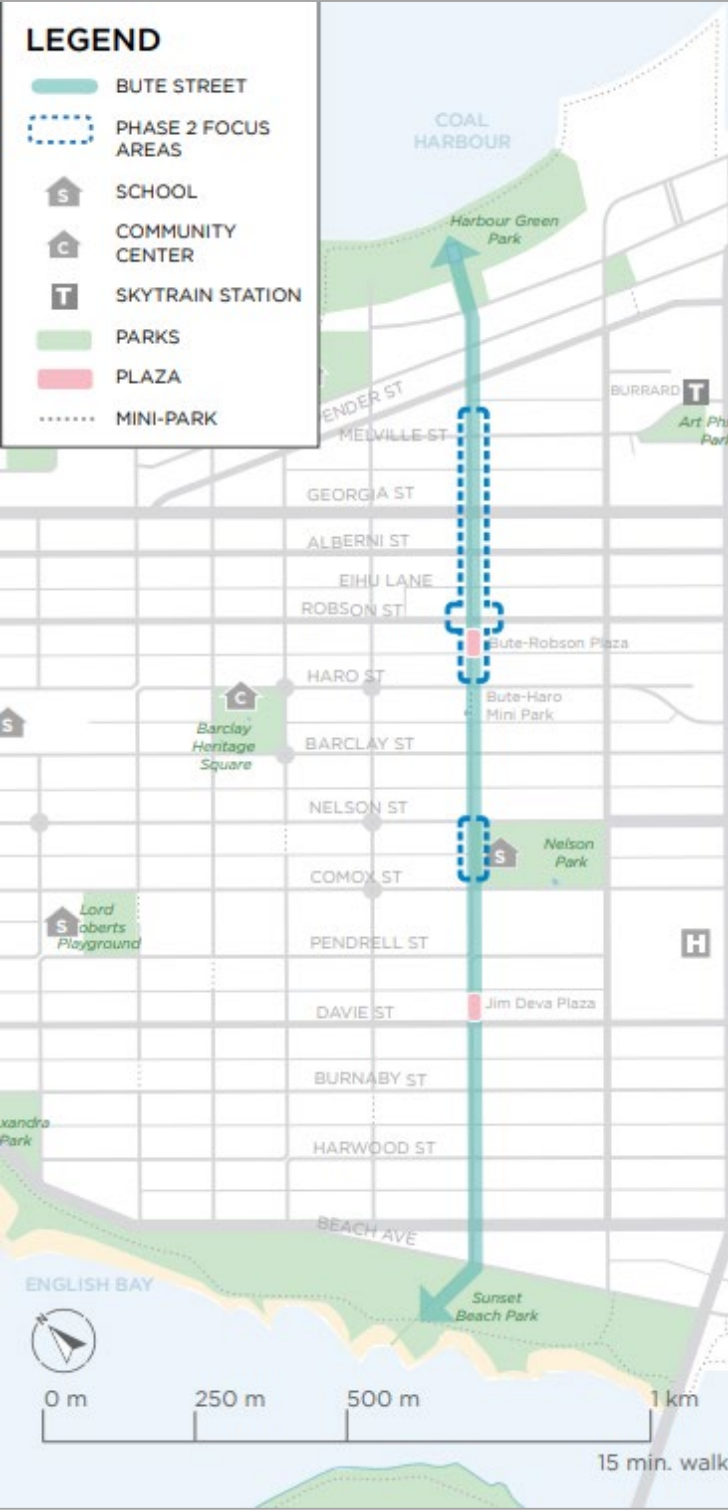
Upgrade the greenway to create a high-quality, continuous experience

- First identified in **1995 Greenways Plan**
- **Supports climate action and equity** in an under-served part of the city
- **Phase 1 engagement completed this May;** Phase 2 in Q4 2023



Bute Greenway

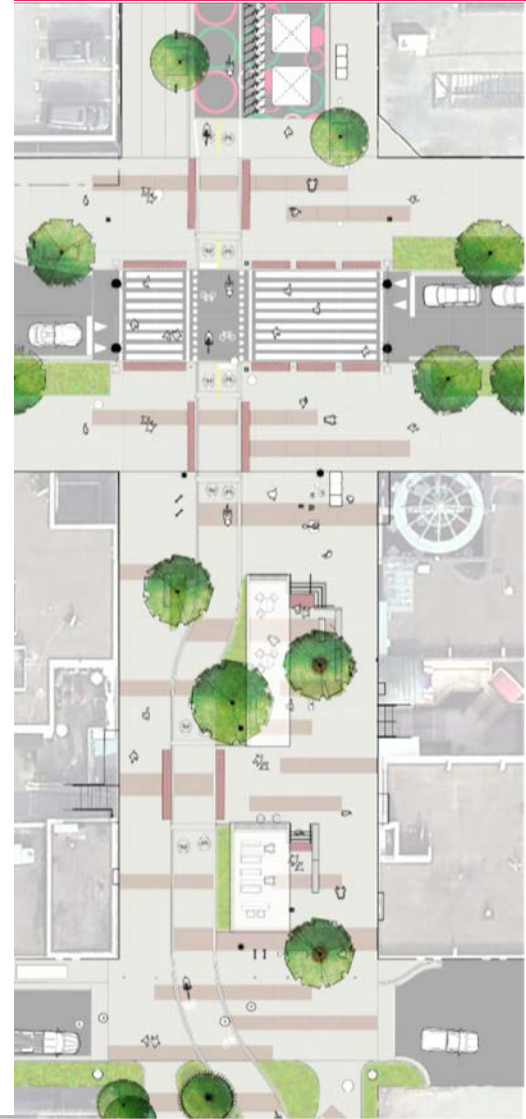
A shore-to-shore greenway prioritizing walking, biking & rolling with vibrant public spaces



Phased approach
beginning with
permanent Bute-Robson Plaza
and **enhanced adjacent blocks**

2023 engagement focus:

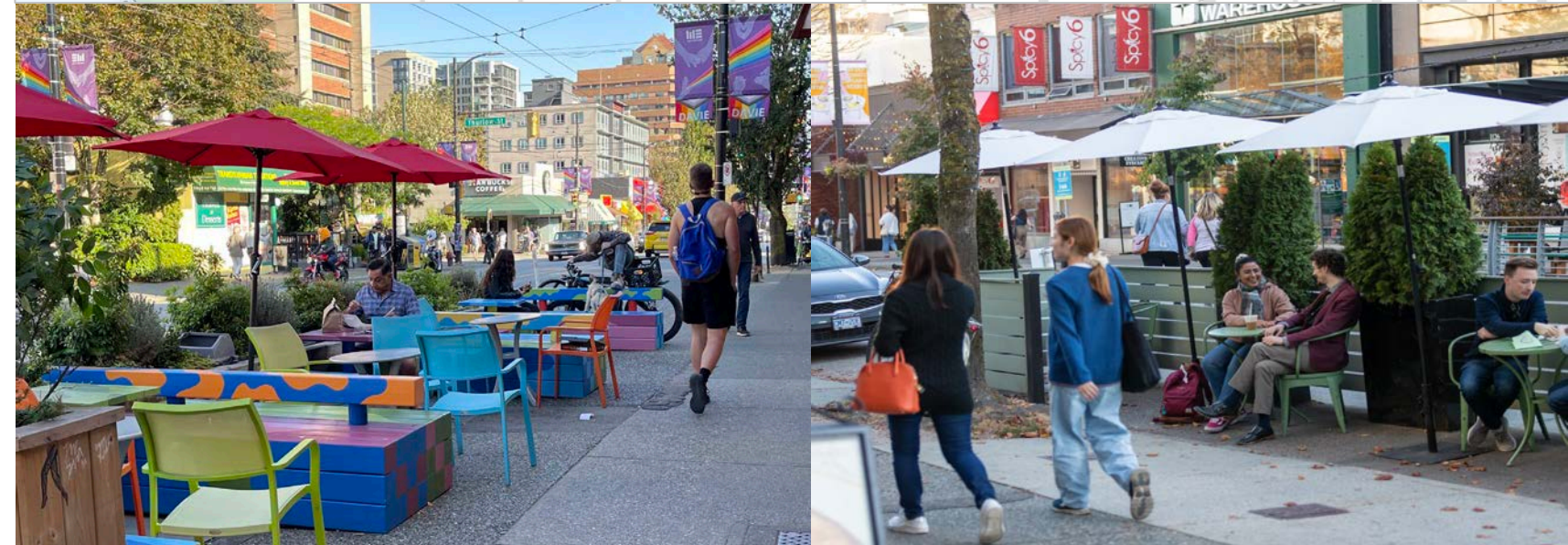
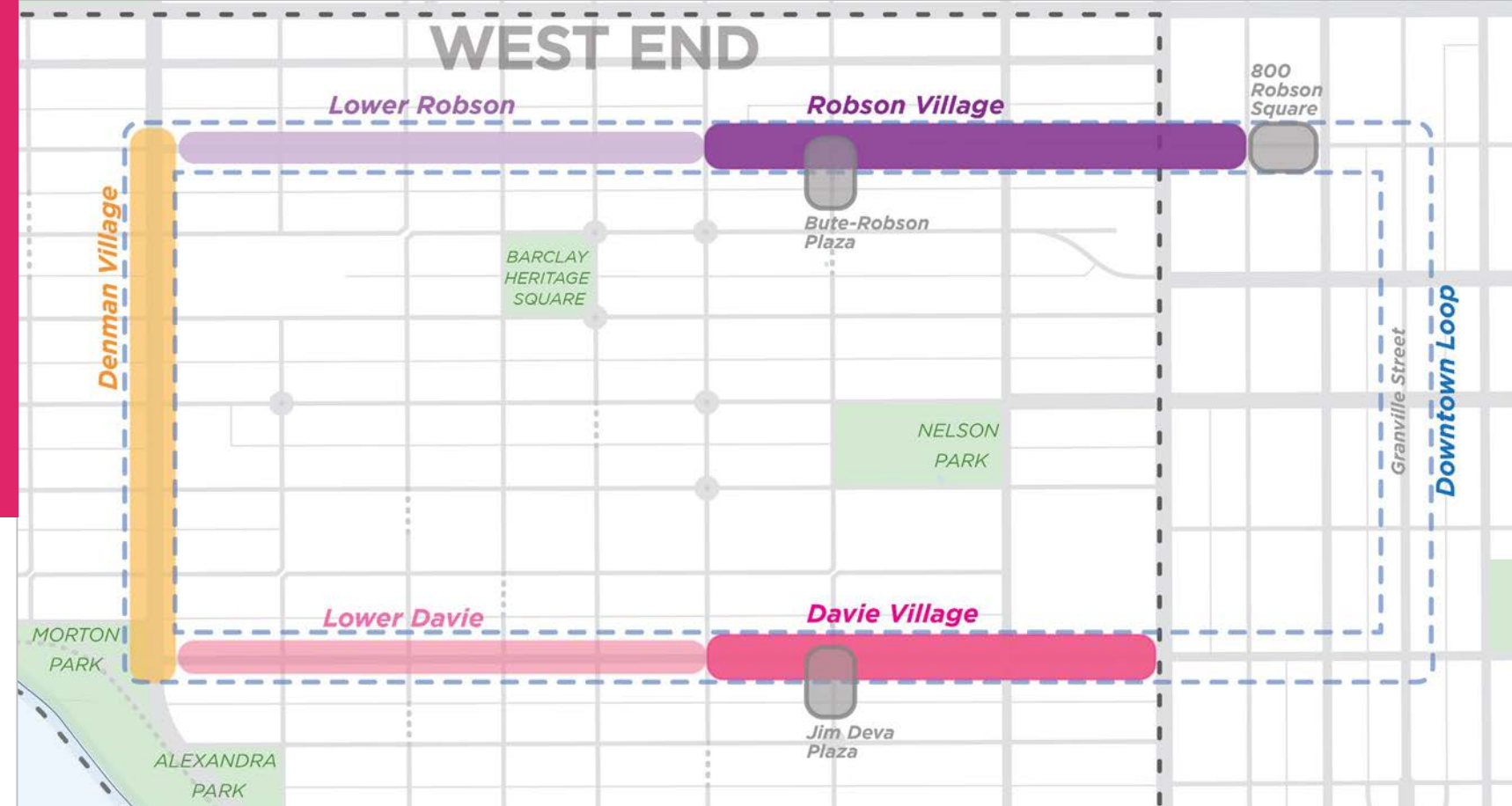
- Share final plaza design
- Extend greenway feel north of Robson to Pender
- Explore interim greenway block at Nelson Park



West End Commercial Streets

Invest in
transportation & public space
improvements in
Davie and Robson Villages

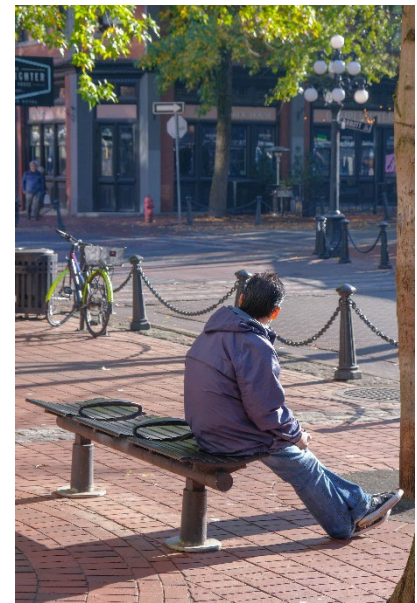
- Stronger **place identity** and **destination appeal**
- Enriched **public life** and **thriving businesses**
- Safer and more comfortable **active travel and transit**
- **Public engagement is in process**



Gastown Public Space Plan

A plan to guide the public realm including the role of streets, laneways and special places

- Increase **visibility** of Host Nations and other urban indigenous communities
- Centre **public life**
- Improve **accessibility** and **resiliency**
- Retain and elevate **unique heritage feel**
- Test car-free Water St through **pilots**



Granville Street

Explore a bold vision for a new destination public space as part of the Granville Street Planning Program

- Support a **24/7 entertainment district**
- Prioritize gender-based and overall **safety**
- **Flexibility** for programming and special events
- Explore the potential to **eliminate private vehicles** on Granville downtown and **consider shifting transit** to adjacent streets while still providing high-quality transit service
- Explore **short term actions** or pilots to test transformation of Granville St



Public Space & Street Uses Policy & Goals

Public Space & Street Use Trends



Focus: Serving Our Communities

Working with community partners

Partners

- All 22 BIAs + other business partners
- Social services
- Cultural communities



Our partners help us to deliver, maintain and activate local public spaces:



Amenities & placemaking projects

Public space upgrades
(parklets, plazas)



Serving communities

2023 Communities of Focus

- Urban Indigenous Community
- Punjabi Market
- Chinatown



Creating new public spaces

Current Spaces



24

Plazas



13

Parklets



12

**Social Service
Parklets**

Areas of Focus for 2023-24

2

New plazas

3

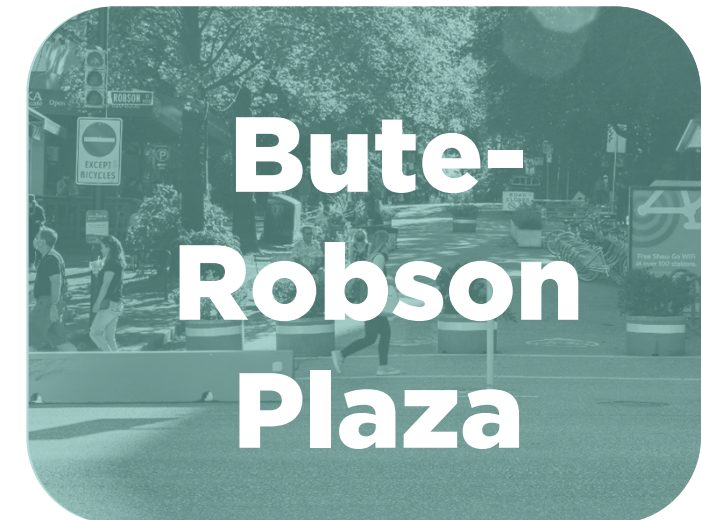
Plaza upgrades

3

Plaza redesigns



**Blood
Alley**



**Bute-
Robson
Plaza**

Public events

There were 3520 Event Days in 2022

- 30 High Complexity Events
- 78 Medium Complexity Events
- 89 Low Complexity Events
- 99 Block Parties
- 8 Event Support Permits
- 8 Experiential Marketing and Private Events



Event Permits



Focus: Managing the Public Realm

Plaza stewardship



What's New?

In 2023, focus on:

- **Management plans** for new plazas
- **Increasing service levels** for microcleaning and seasonal cleaning

Stewardship Includes

- **Management plans** and agreements with community partners
- Regular **microcleaning & seasonal cleaning**
- Building **community capacity**
- Supporting **community-led programming** and **improvements**

Street horticulture

- **2,000+ assets** in medians, traffic circles, curb bulges, bridge ends and closed streets
- **~700 volunteers** in Green Streets program
- **14 Neighbourhood Greenways**
- **22 Community Gardens**
- Service providers include **Park Board, contractors, and volunteers**

What's New?

2023 budget increase will support:

- Increasing maintenance service levels
- Transitioning assets to 'natural management' approach
- Renovating and replanting deteriorating assets



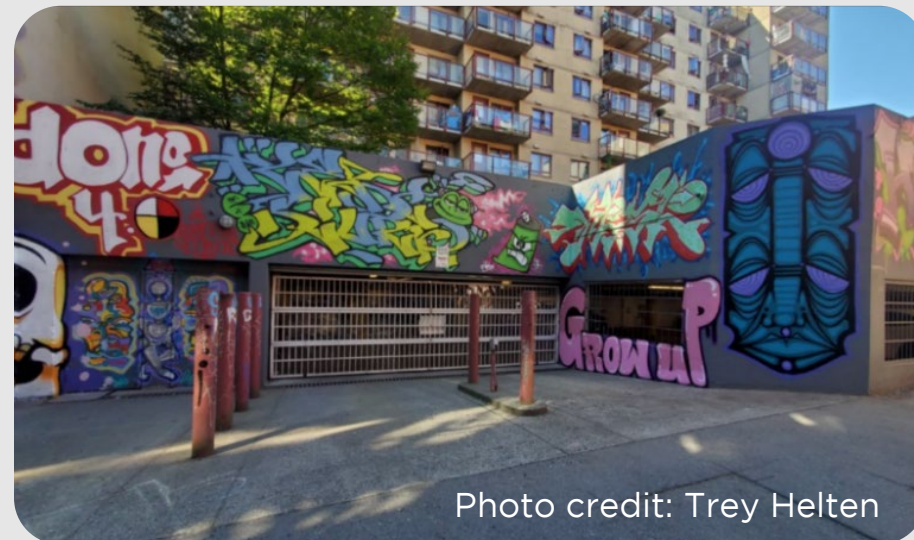
Graffiti management program

Includes:

- **Multi-year contract** with graffiti removal contractor Goodbye Graffiti to service city and parks property
- **Free Paint Program** supports the removal of graffiti on private property for property owners and BIAs
- Community Paint-Out Program, a **volunteer-driven effort to clean up City property** with City providing supplies

What's New?

Graffiti Art Wall Pilot partnering with community street artists to explore sanctioned graffiti zones

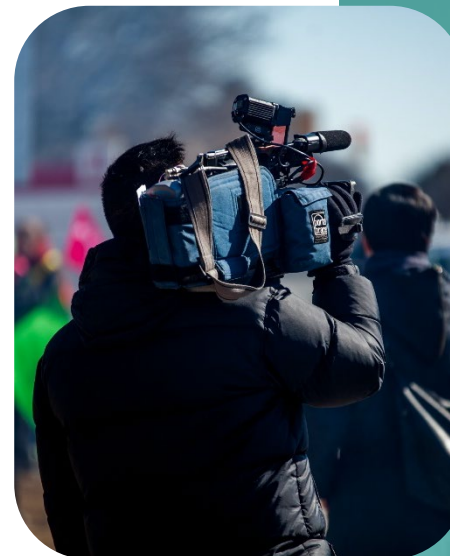


Focus: Business Use and Curbside Management

Filming

There were 1009 Film Days in 2022

- **1342** Film Locations
- **1235** Street Use Permits
- **281** Clean Energy Discounts
- **245** Productions
- **111** Ultra Low Impact Permits



Top Film Locations

Downtown - 481 Days
Mt Pleasant - 100 days
Marpole - 81 days

Patio program highlights

323

Year-round patios

177

Summer patio renewal permits

21

New summer patio applications



What's New?

- **Speed up approval times** by improving review process and adding option to renew
- **Improved traffic management** approach for high streets
- **Patio program review** to look at design guidelines, permit fees and accessibility. Engagement in Summer-Fall **2023**

Public bike share highlights



4.5M trips to date

9% of weekday cycling trips are via bike share



\$1M in Provincial grants supporting expansion



700+ equity members



34% of bike share trips made to local businesses

\$12M+ contributed to the local economy on bike share trips



What's New?

Since 2022, Mobi by Shaw Go has:

- Added 500 e-bikes and expanded station area
- Expanded equity program for people with disabilities and youth
- Worked on first regional expansion to integrate UBC's new public bike share system

Shared e-scooter pilot

- Council direction to **deliver shared e-scooter** pilot incorporating:
 - **Technology to reduce conflicts** between riders and other street users
 - **Best practices for locking and storing**
 - **Equity** program and measures
- **Consultation ongoing** with Advisory Councils and other stakeholders

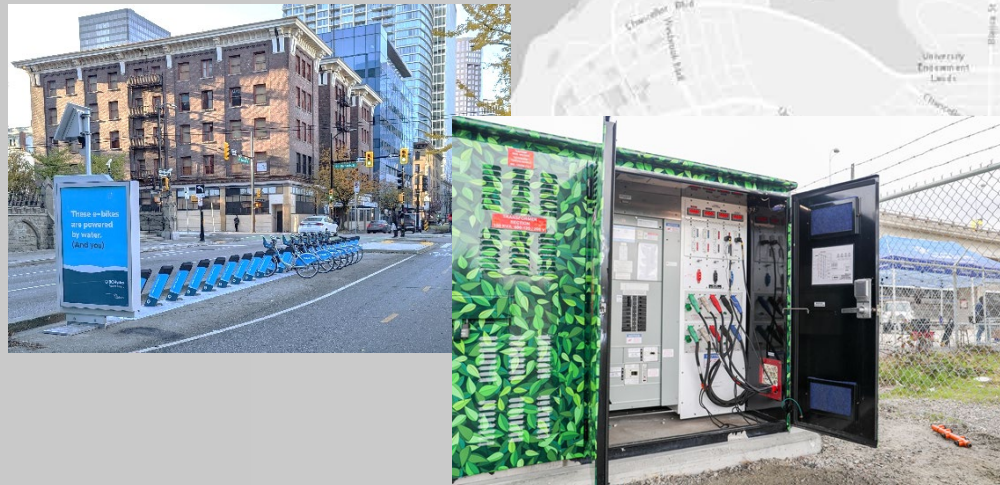
What's Next?

- RFP expected in late 2023
- Incorporating feedback from Provincial Electric Kick Scooter Pilot
- Touchpoint with Council

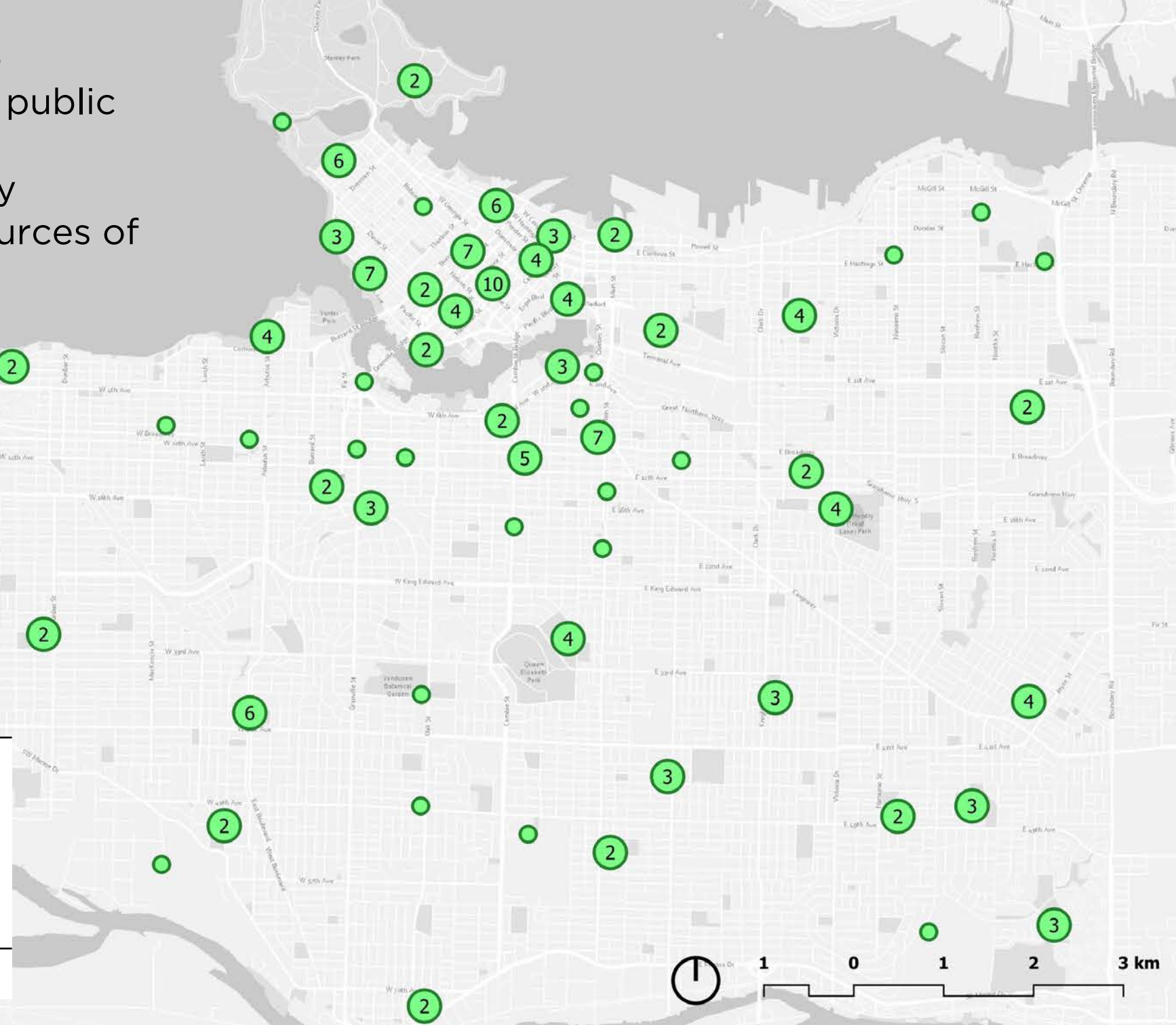


Public Realm Electrification Program

- Building a **network of power connections** to support business and people-first use of the public realm
- Advances Climate Emergency Action Plan by **supporting transition** to renewable clean sources of energy



| Site Type | Completed | 2023 | 2024 |
|------------------------------|-----------|-----------|-----------|
| Film clean power kiosks | 3 | 5 | 3 |
| Food truck receptacles | 4 | | 7 |
| Public e-bike share stations | | 8 | 31 |
| EV charging stations | 53 | 21 | 13 |
| | 60 | 34 | 54 |



Meter replacement and pay station rollout

- **~7000 aging parking meters replaced** by pay stations and bike parking by 2025
- New stations will accept **coins, credit, debit and e-wallets**
- First **new stations installed along sections** of:
 - Main Street
 - Gastown
 - Hastings Crossing

\$52M Total Parking Revenue (2022)

What's New?

- **400+** meters replaced to date with secure bike racks
- **800+** pay stations will be installed as a replacement or in a new area



