



City of
Kelowna

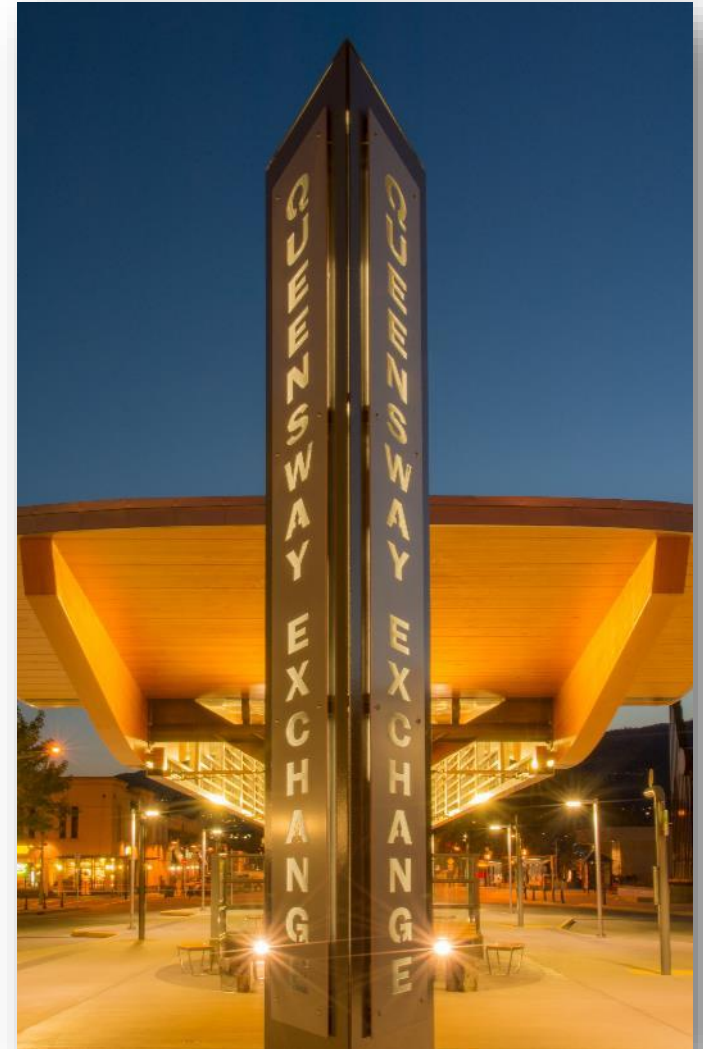
Council Workshop on Transportation

February 6, 2023



Overview

- ▶ Today: Background / Context
- ▶ Upcoming Transportation Reports (Q1):
 - Transportation Citizen Survey
 - Central Okanagan Integrated Transportation Strategy (CO-ITS)
 - Regional Goods Movement Study
 - OCP/TMP First Annual Report

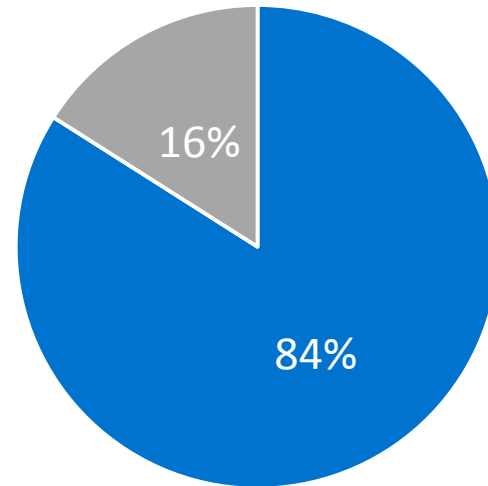


Kelowna is Growing

- ▶ Nearly 50,000 new residents by 2040

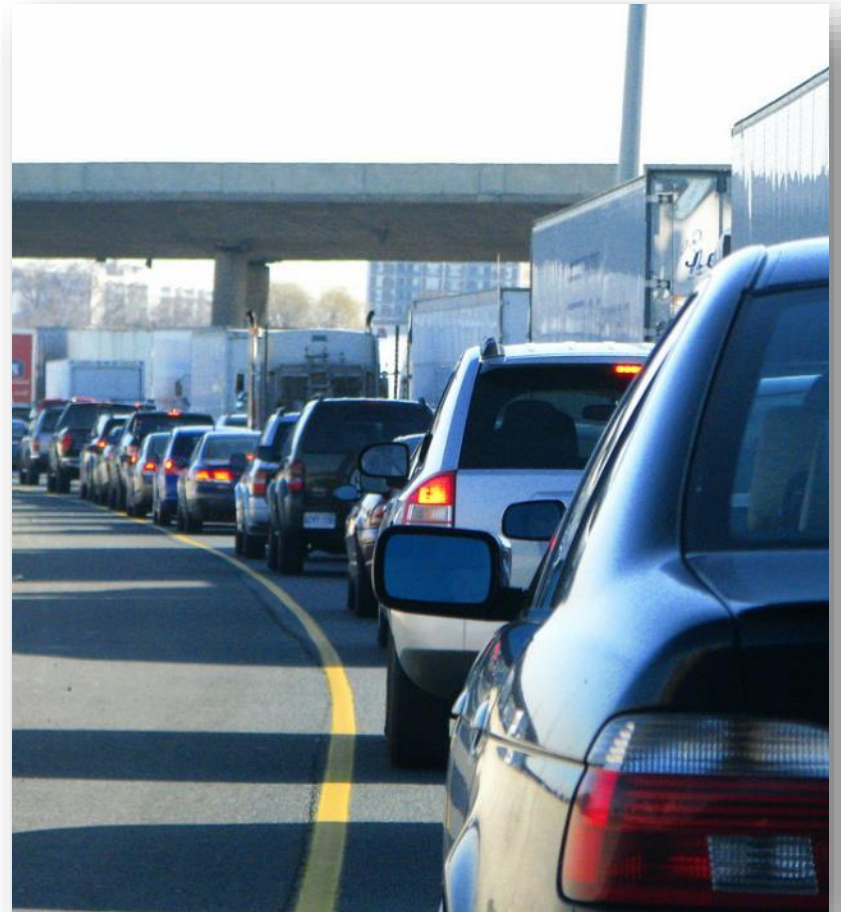


- ▶ Today, residents drive for 84% of trips



The Challenge: Supply and Demand

- ▶ More demand for road space than available
- ▶ By-product of a successful economy
- ▶ Impacts travel time, reliability, and air quality



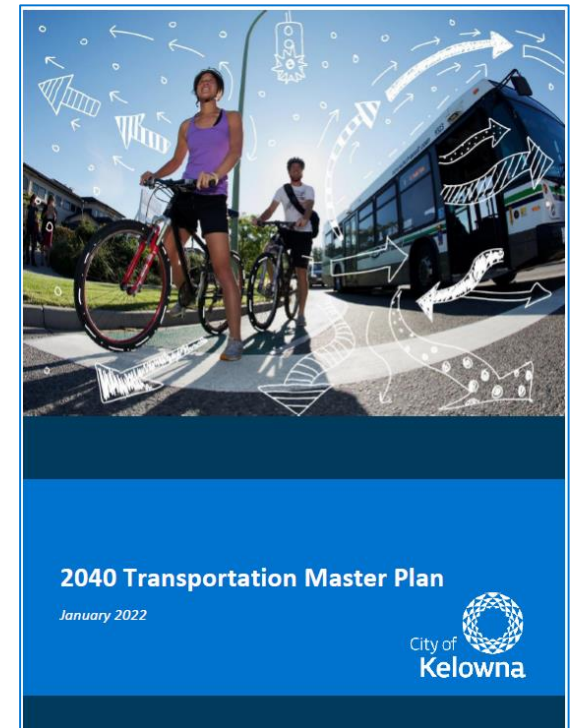
Managing Traffic Congestion

- ▶ How do we grow without gridlock?
- ▶ Strategies include:
 - Improve system operations
 - Reduce car dependency
 - Leverage emerging transportation technology innovations
 - Manage travel demand
 - Enhance vehicle capacity



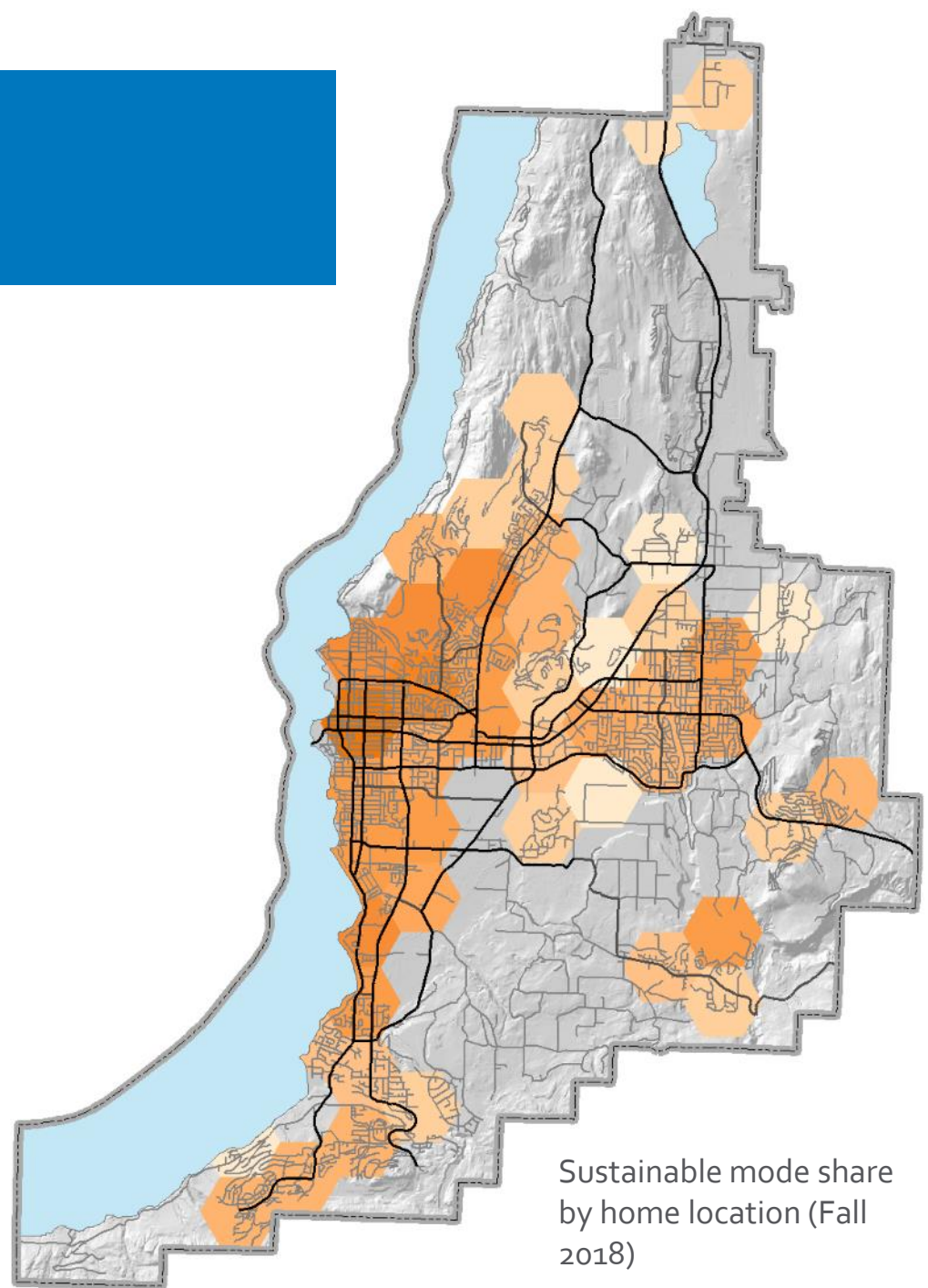
Policy Direction

- ▶ 2040 Official Community Plan (OCP)
- ▶ 2040 Transportation Master Plan (TMP)



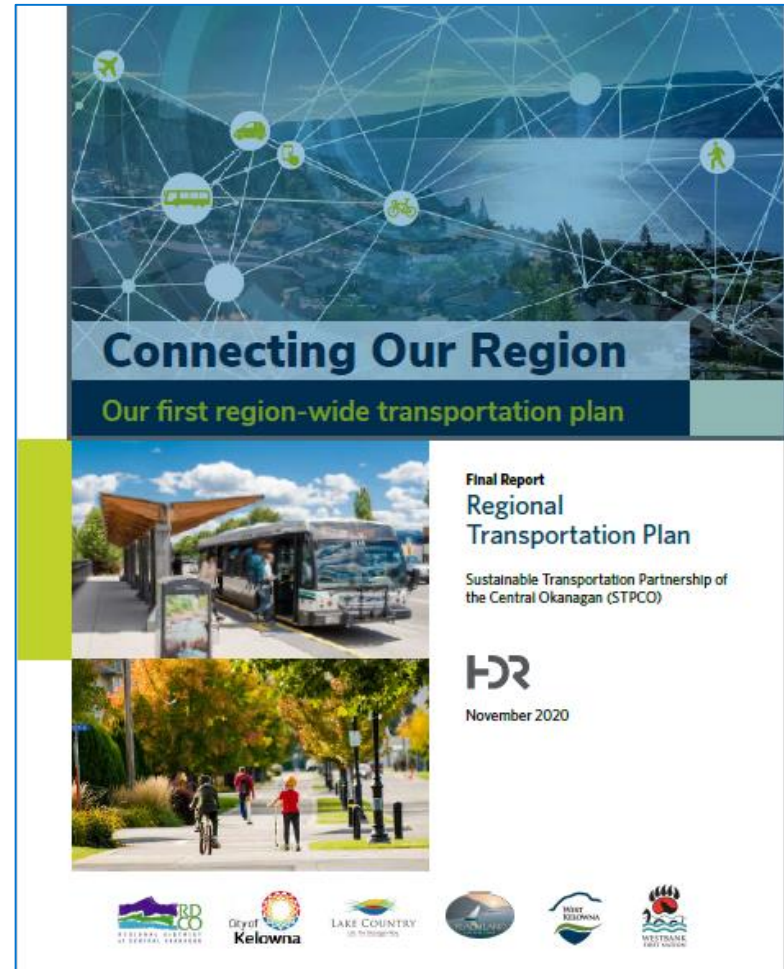
Land Use Integration

- ▶ People living in central areas make more of their trips by bike, walk and transit (and drive shorter distances)
- ▶ Speaks to importance of coordinating land use and transportation planning



Policy Direction

► 2040 Regional Transportation Plan (RTP)



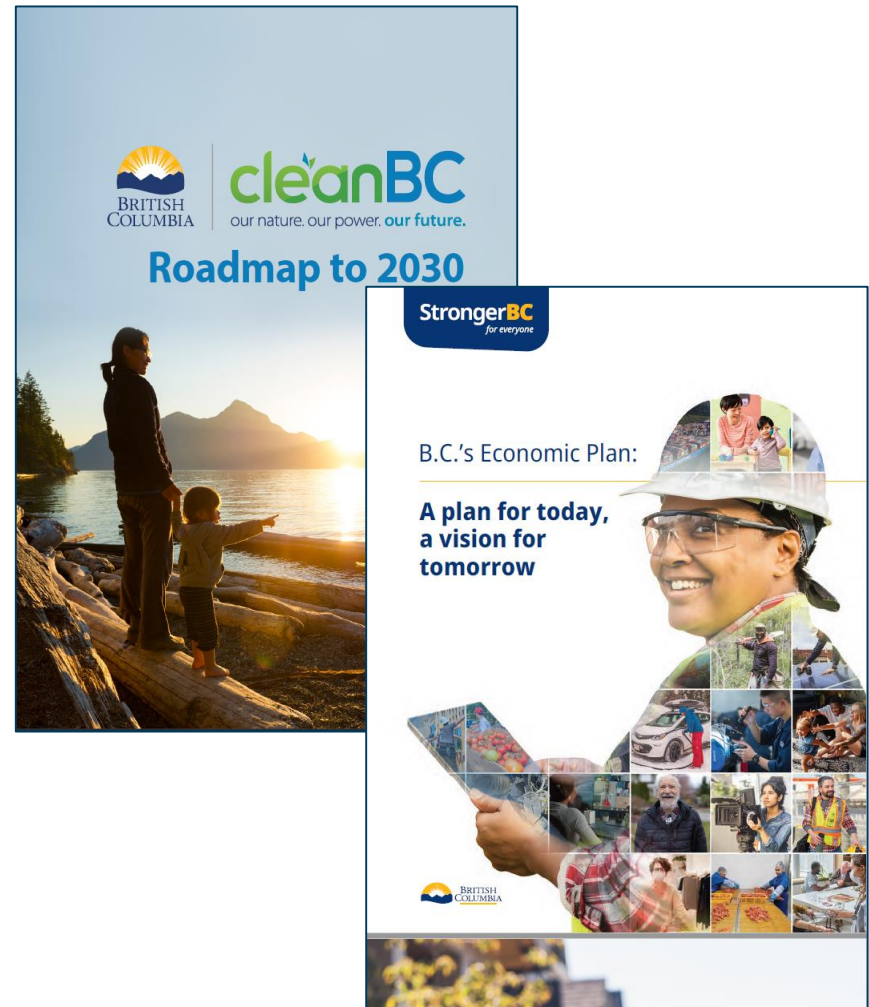
Provincial Policy Framework

► cleanBC – Roadmap to 2030

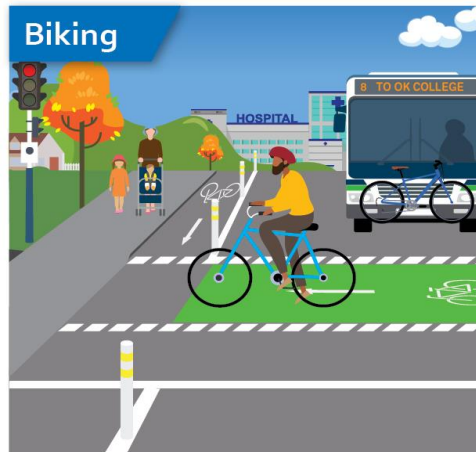
- Reduce vehicle kms traveled (25% by 2030)
- Increase sustainable mode share (40% by 2040)
- Reduce energy intensity of goods movement (30% by 2040)

► StrongerBC - BC's Economic Plan

- Building resilient infrastructure



So, what's the plan? (and where do we stand?)



(Note: headings from the 2040 Transportation Master Plan)

Pedestrian Network

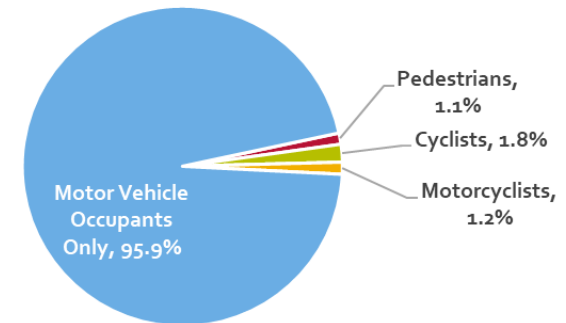


2017 to 2021 all collisions involving user type

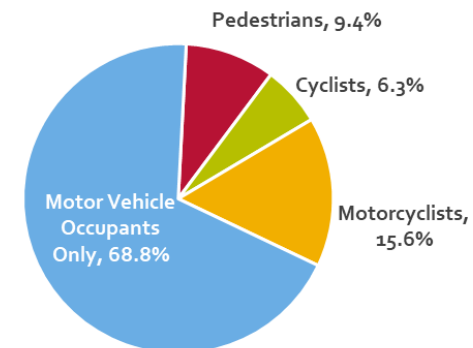
- ▶ 8% of trips (Nov 2018)
- ▶ More vulnerable in collisions

▶ Key challenges

- Missing sidewalks
- Crossing busy roads (e.g. Hwy 97)
- Trip distances / steep grades
- Year-round maintenance

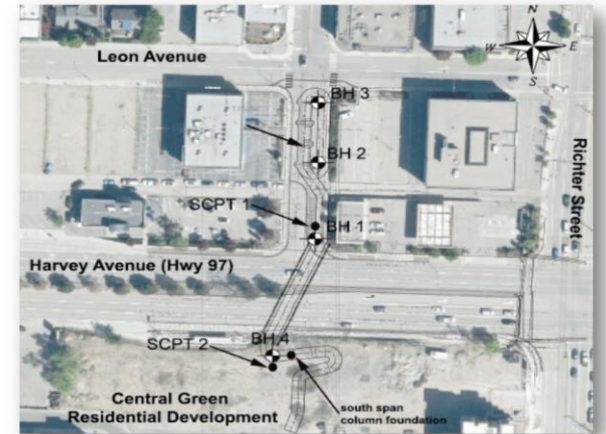


2017 to 2021 fatal collisions involving user type



Pedestrian Network Improvements

- ▶ Improved Maintenance
- ▶ Bertram St Hwy 97 Overpass
- ▶ Crossing Improvements
- ▶ Sidewalk network expansion



Biking



- ▶ 2% of trips (Nov 2018)
- ▶ More vulnerable in collisions
- ▶ Connected, network, safe for people of all ages and abilities is key
- ▶ Influencing Trends:
 - Electrification (e-bikes and scooters)
 - New users / broader audience
 - Congestion and climate benefits
 - Service requests down 90%

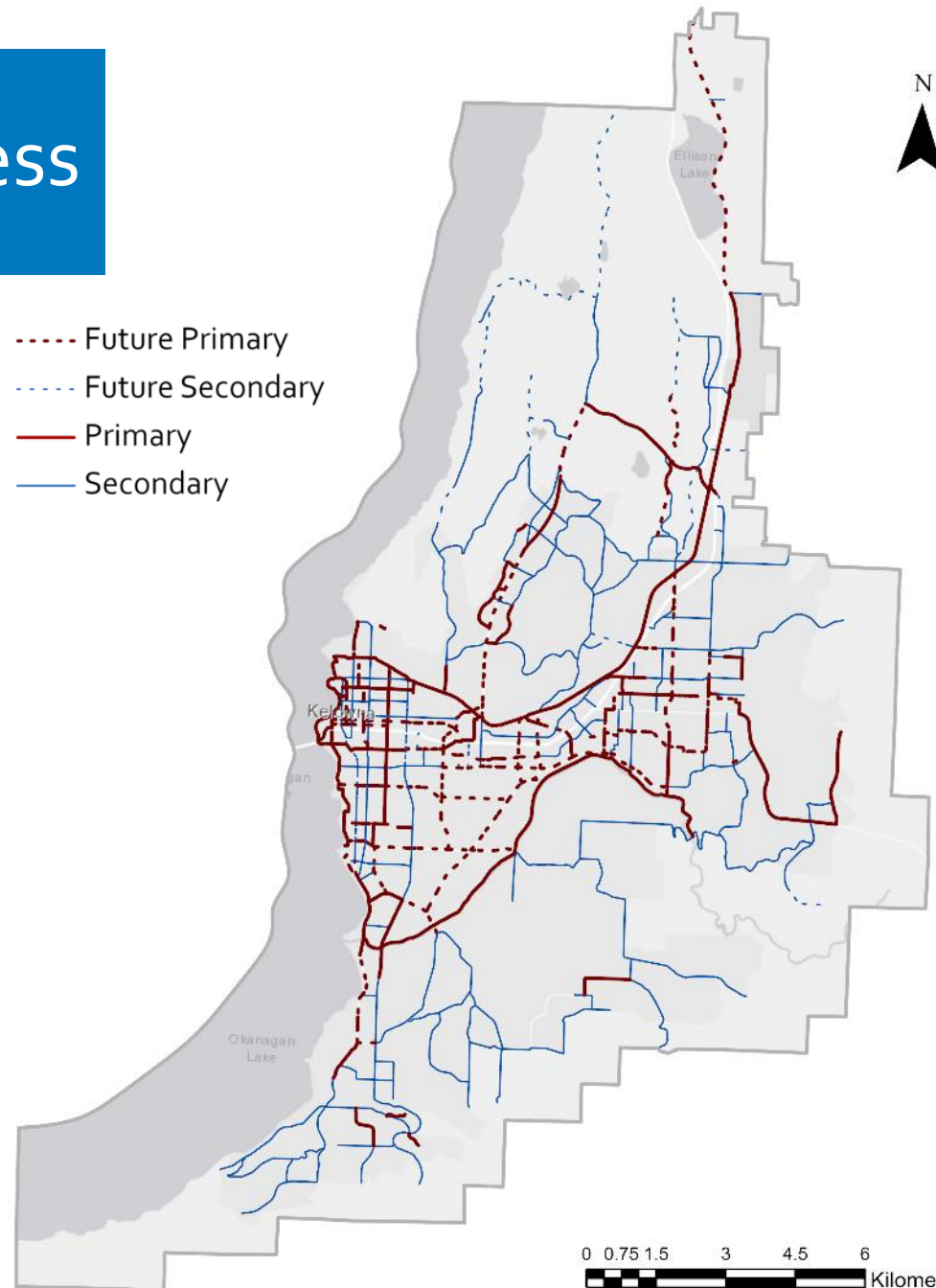


Bike Network - Progress

Building safe, connected active transportation corridors (ATCs):

- ▶ Connecting the 5 urban centres
- ▶ Connect Okanagan Rail Trail and Greenway
- ▶ Lighting - Rail Trail
- ▶ Winter Maintenance
- ▶ Neighbourhood bikeways

- Future Primary
- Future Secondary
- Primary
- Secondary



Bike Network - Progress

- ▶ Ethel ATC
- ▶ Abbott ATC
- ▶ Casorso ATC
- ▶ Houghton ATC
- ▶ Sutherland ATC



Abbott ATC



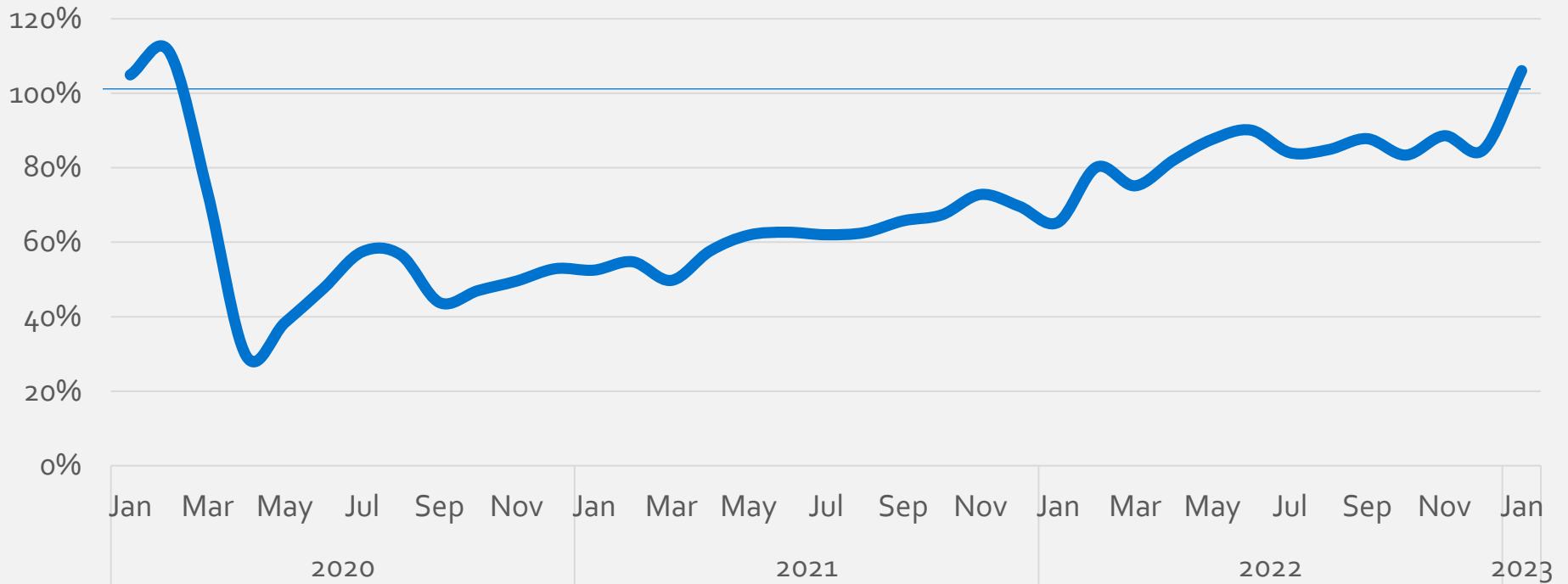
Houghton ATC (Lester Rd)

Transit



Transit ridership has recovered to pre-pandemic levels

Monthly ridership compared to 2019



Transit Governance

- ▶ Transit delivered as partnership between BC Transit and regional governments
- ▶ Roles, responsibilities and funding defined by BC Transit Act
- ▶ Local/provincial operating cost share:
 - BC Transit: 47%
 - Regional governments: 53% (offset by fare revenue)
- ▶ City of Kelowna's net share of costs is about 25%

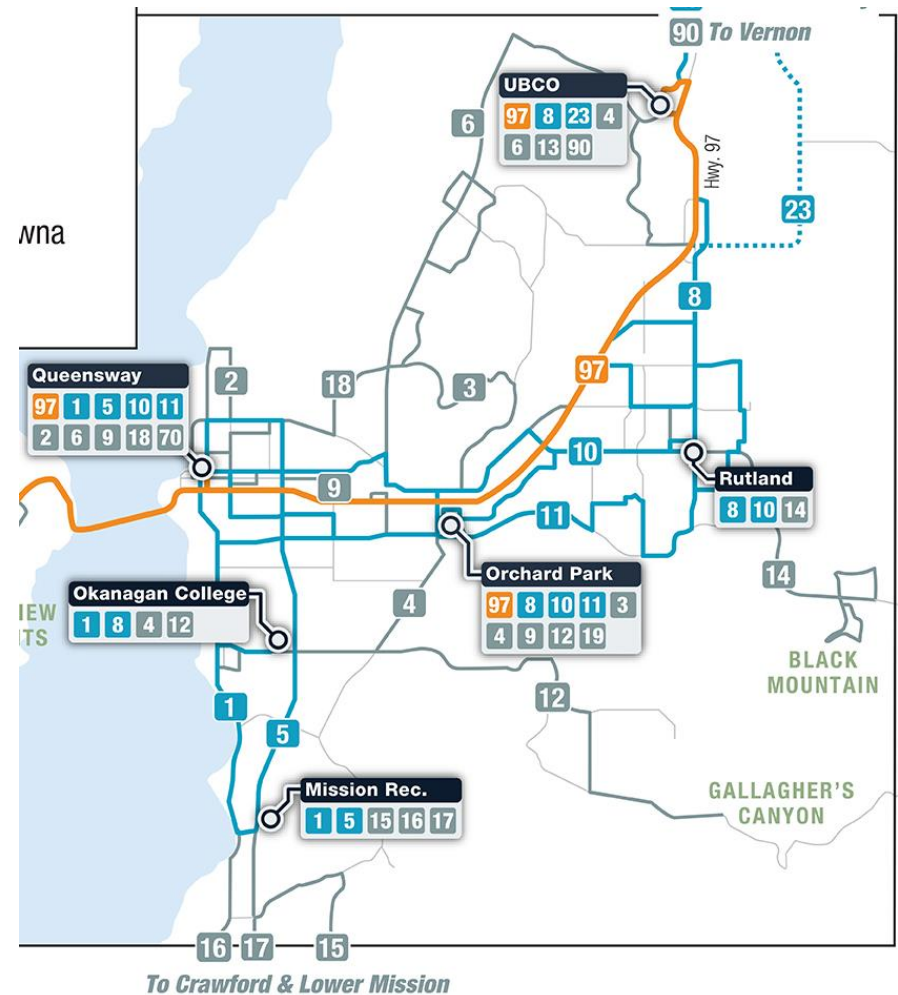


Kelowna Regional Transit System

- ▶ 31 routes
- ▶ 208,000 service hours / year
- ▶ 6 million transit riders / year (2019)

- ▶ Primary network (Core):
 - Rapid Transit Network – 97 RapidBus
 - Frequent Transit Network – major commuter routes

- ▶ Secondary Network (Coverage):
 - Local Transit Network – fixed route, suburban
 - Targeted Services (e.g. handyDART)



Transit: Current Efforts

- ▶ Refurbish Hardy Street transit operations facility
- ▶ Expand bus exchanges
- ▶ Transit stop improvements
- ▶ New electronic fare payment system



Transit: Big Picture

▶ Fast and Reliable Transit

- Less waiting – buses coming every 10 – 15 mins

▶ New Transit Operations Facility - needed to deliver this vision

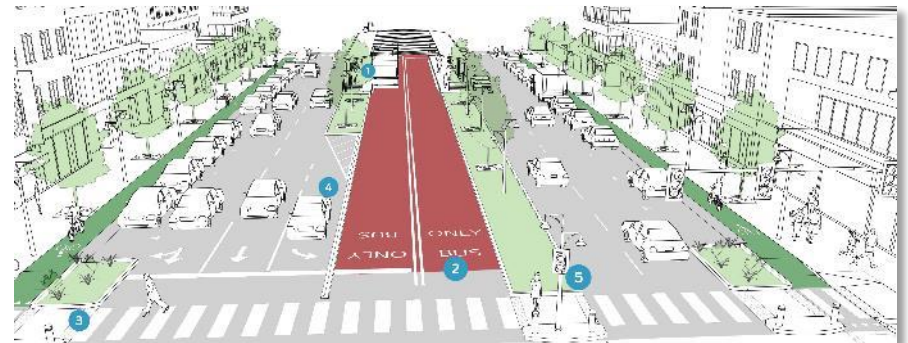
- Battery electric buses

▶ Mass Transit

- RTP & TMP & OCP: Plan for and protect a rapid transit corridor along the highway – bridge to UBCO



New transit facility conceptual drawing



Example sketch: dedicated transit lanes

Road connections



- ▶ 84% of trips (Nov 2018)
- ▶ 800 km of streets
- ▶ 300,000 trips / day
- ▶ 3,500 service requests / year

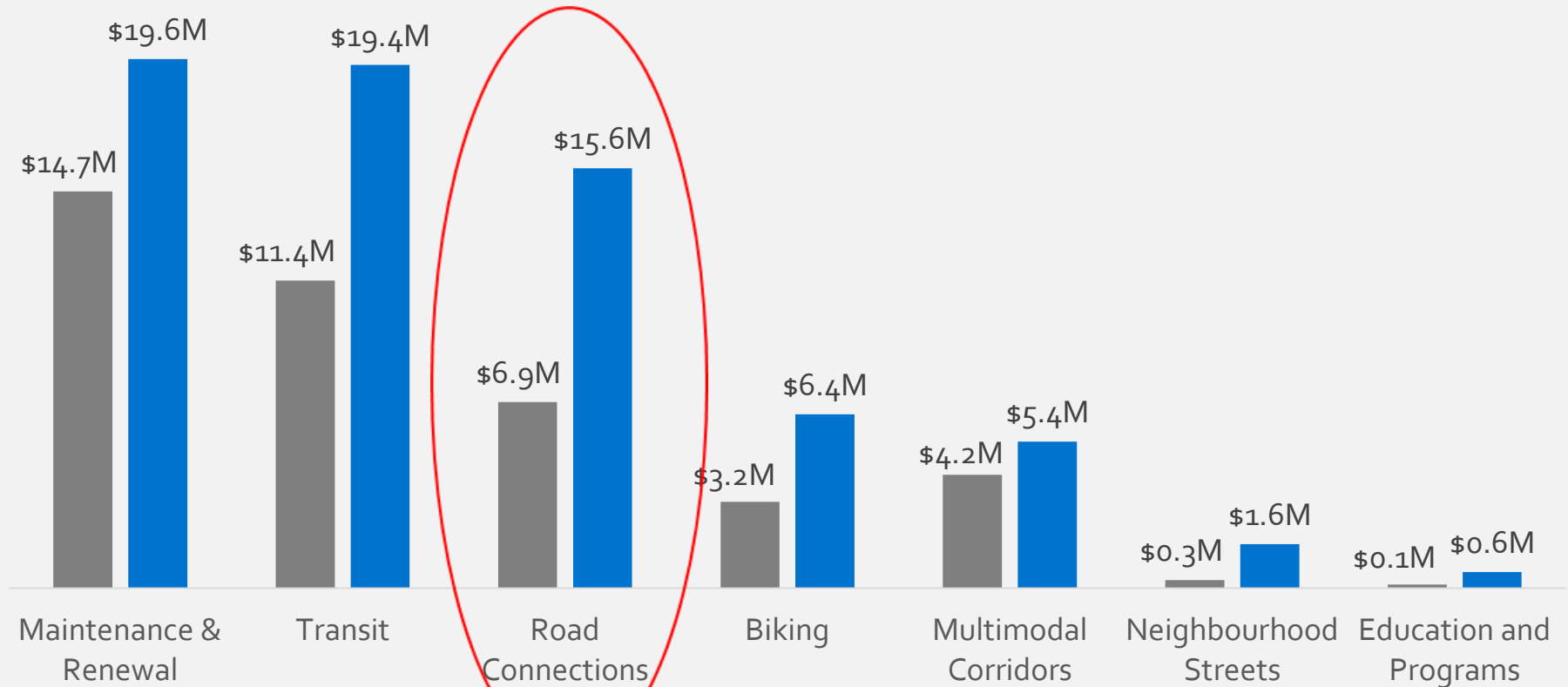
- ▶ Key challenges:
 - Congestion
 - Collisions
 - Emissions
 - Cost



Road Connections

Investment by category

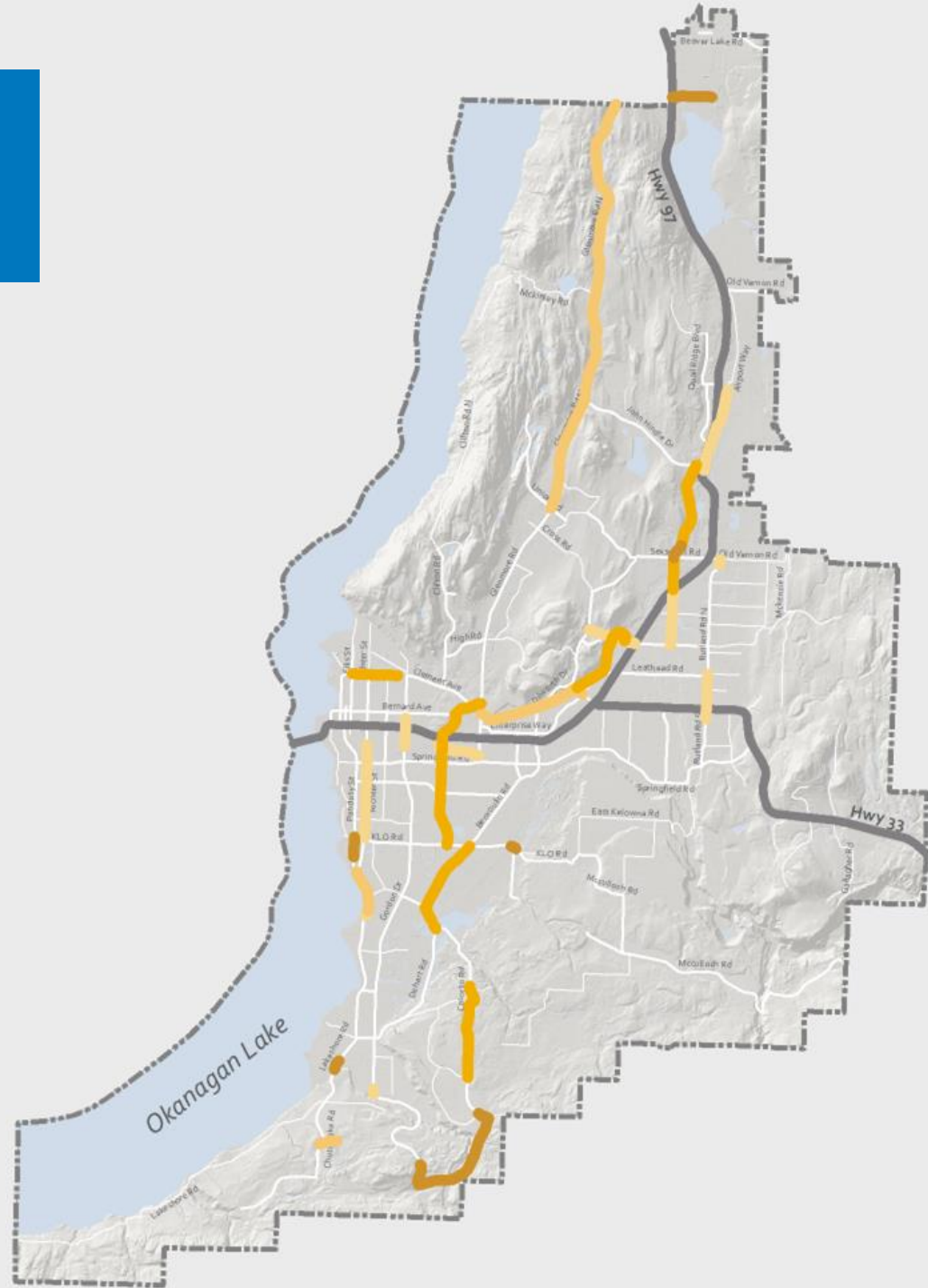
Annual average, 2020 - 2040 ■ Current ■ Proposed



Road Connections

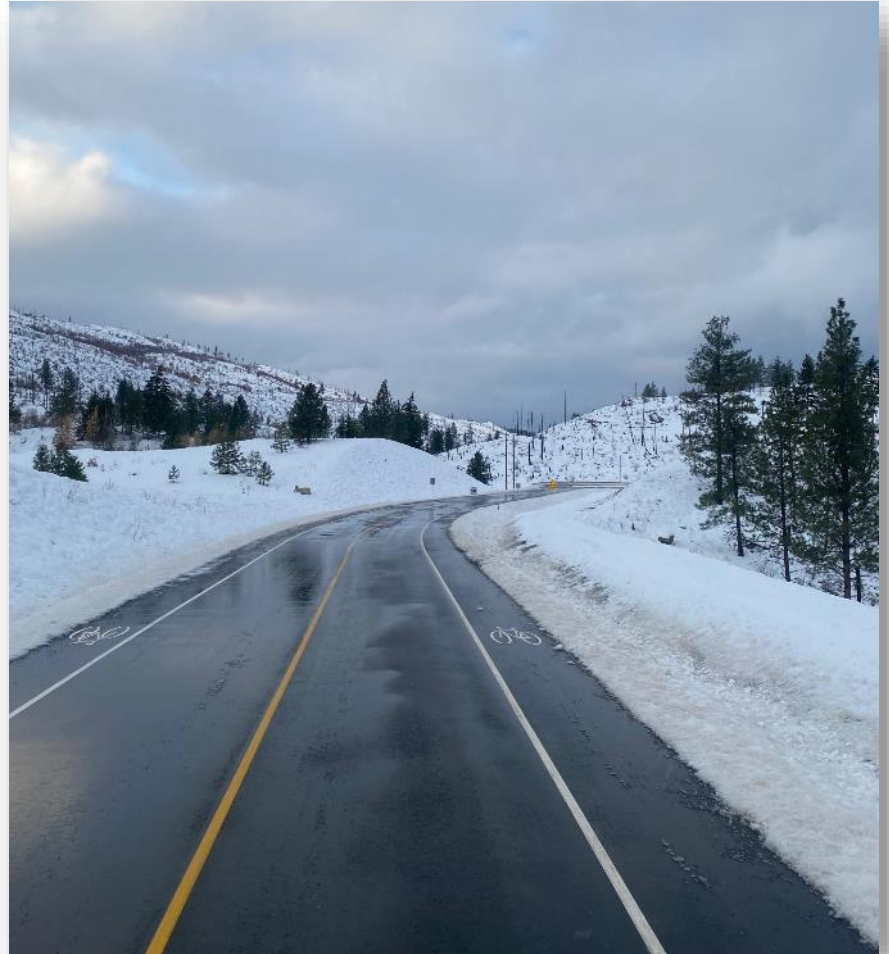
Estimated Project Timing

- 2021 - 2025
- 2026 - 2030
- 2031 - 2035
- 2036 - 2040
- City Boundary
- Highway



Road Connections - Upcoming

- ▶ Improving traffic flow in the Upper Mission
 - Over \$35M investment to create a third north/south corridor
 - ▶ South Perimeter Way
 - ▶ Stewart Rd upgrades
 - ▶ Burtch Rd extension
 - ▶ Frost Rd connection
- ▶ Clement Ave extension
 - Take pressure off highway, in conjunction with dedicated transit lanes
- ▶ Commonwealth Road
 - Connect to industrial lands



South Perimeter Way

Goods Movement

▶ Regional Goods Movement Strategy

- Industrial land supply and access
- Supply chains
- Deliveries and e-commerce
- Energy and emissions



▶ Driverless / autonomous vehicles

- Deliveries / ride-hailing



Maintenance and renewal



- ▶ Residents told us maintaining existing infrastructure is a high priority
- ▶ The TMP recommends increasing investment in maintenance by 30%
- ▶ Examples: fixing potholes, repairing sidewalks, repaving, line painting, signs and lighting, street sweeping and snow clearing



Education, programs and emerging technologies

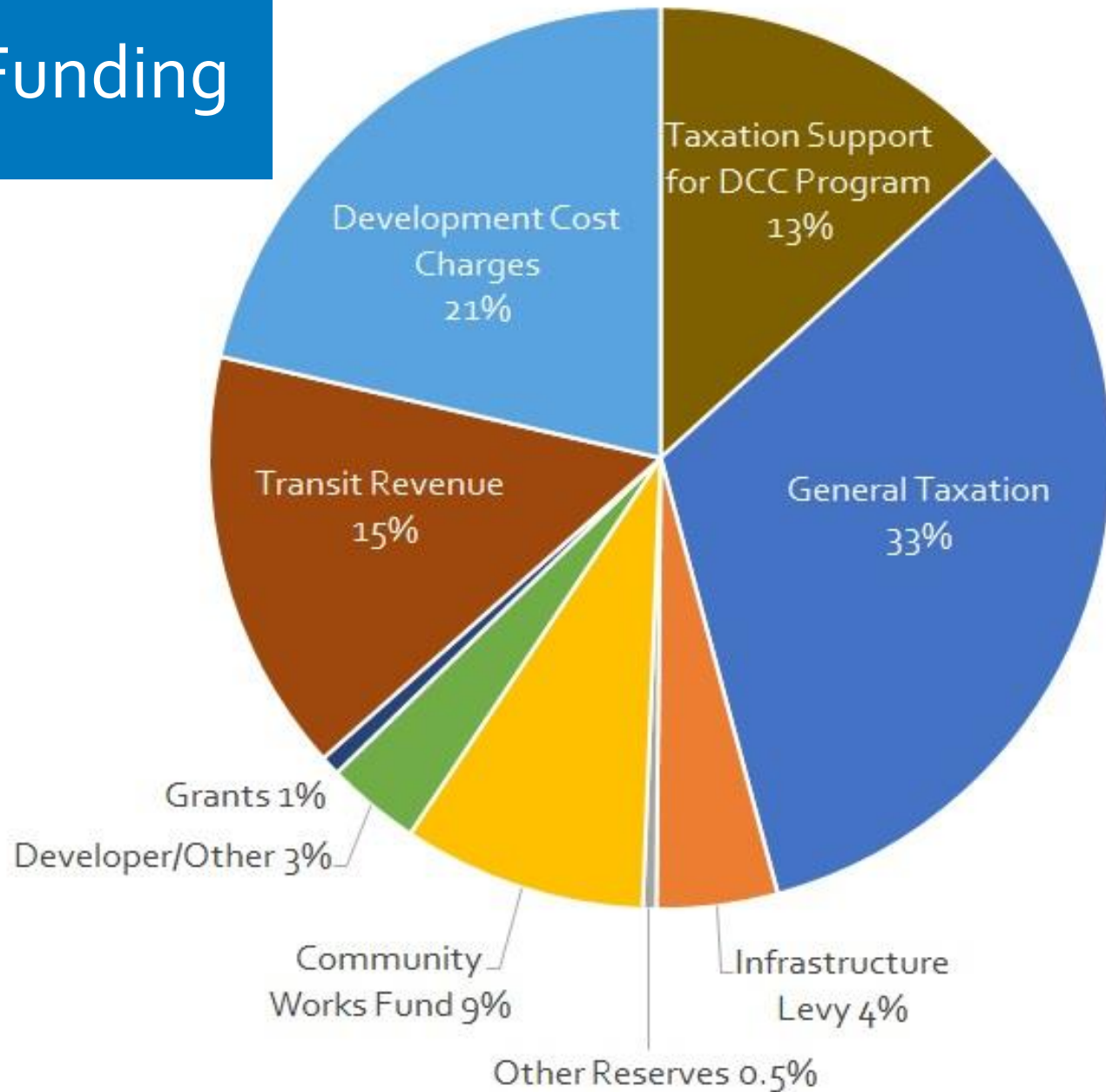


Not all investments in transportation involve building new infrastructure. Education and incentive programs can help people learn how to use and enjoy new ways of getting around. Highlights include:

- ▶ Employer Commute Trip Reduction Program
- ▶ Transit Pass Program
- ▶ Safe routes 4 school expansion
- ▶ Bicycle skills training
- ▶ Transit travel training
- ▶ Transportation Safety Strategy
- ▶ Accessibility Transition Plan
- ▶ Connected, autonomous, shared, electric (CASE)

Transportation Funding

- ▶ Projected funding sources (2021 – 2040)
- ▶ Transportation funding and delivery is complex



10-Yr Capital Plan

- ▶ Programs all capital investments (transportation, parks, buildings, utilities, etc)
- ▶ Updated annually
- ▶ Provides budget guidance



Tracking our Progress

12 Goals /
Performance
Measures:

3 Targets:

- ▶ Double transit ridership
- ▶ Quadruple bike trips
- ▶ Reduce distance driven



Improve
travel choices



Optimize
travel times



Enhance
travel affordability



Foster a
growing economy



Enhance
urban centres



Be innovative
and flexible



Improve
safety



Protect the
environment



Ensure value
for public investment



Improve
health



Promote inclusive
transportation



Support livable
communities



Questions?

The integrated transportation, Operations and Infrastructure Delivery team is available to respond to your questions.