

SUSTAINABILITY AND ENVIRONMENTAL ADVISORY COMMITTEE

DATE: Tuesday, July 25, 2023
TIME: 7:00 p.m. to 9:00 p.m.
PLACE: Council Committee Room, Coquitlam City Hall

CALL TO ORDER

ADOPTION OF MINUTES

1. **Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, May 23, 2023**
Recommendation:
That the Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, May 23, 2023 be approved.

NEW BUSINESS

2. **Strategic Transportation Plan & E-Mobility Demonstration (Presentation by Transportation Planning Manager and Transportation Planning Specialist)**
7:05 – 7:50 p.m. (45 minutes)
3. **Creek Hazard Assessment (Presentation by Utility Asset Manager)**
7:50 – 8:10 p.m. (20 minutes)
4. **Environmental Volunteer Celebration Public Event (Discussion led by Environmental Education & Enforcement Manager)**
8:10 – 8:25 p.m. (15 minutes)
5. **2024 – 2027 Strategic Plan Renewal: Opportunity for Input (Presentation and Engagement Exercise by Director Corporate Planning and Project Manager – Corporate Planning)**
8:25 – 8:45 p.m. (20 minutes)
6. **Committee Members' Roundtable / Emerging Issues (Standing Agenda Item)**
8:45 – 9:00 p.m. (15 minutes)

OTHER BUSINESS

NEXT MEETING DATE – Tuesday, September 26, 2023

ADJOURNMENT



SUSTAINABILITY AND ENVIRONMENTAL ADVISORY COMMITTEE**Tuesday, May 23, 2023**

A Regular Meeting of the Sustainability and Environmental Advisory Committee convened on Tuesday, May 23, 2023 at 7:03 p.m. in the Council Committee Room, 3000 Guildford Way, Coquitlam, BC, with the following persons present:

COMMITTEE MEMBERS: Councillor Brent Asmundson, Chair
Councillor Robert Mazzarolo, Vice Chair
Grayson Barke, Citizen Representative
Reza Berry, Citizen Representative
Linton Chokie, Citizen Representative (arrived at 7:31 p.m.)
Silvia Cojocar, Citizen Representative
Mohammad Darabi, Citizen Representative
Daryoush Mohammad Hassani, Citizen Representative
Kelly Koome, Citizen Representative
Edward Lau, Citizen Representative

REGRETS: Mark Ashton, Citizen Representative
Richard Kenny, Citizen Representative
Bonnie Razzaghi, Citizen Representative

STAFF: Caresse Selk, Manager Environment
Jenny Tough, Environmental Education & Enforcement Manager
Laura Sampliner, Environmental Sustainability Manager
Pádraig Harrington, Utility Planning Manager
Caley Amundsen, Committee Clerk

CALL TO ORDER**ADOPTION OF MINUTES**

1. Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, March 28, 2023

The Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, March 28, 2023 were approved.

NEW BUSINESS

2. City Creeks Water Quality Monitoring, Development Impacts and City Projects

The Utility Planning Manager provided the Committee with an on-screen presentation entitled “Monitoring Results and Impacts of Development – Creek Water Quality” that covered the following topics:

- Provincial and municipal legislation concerning creek and watershed management
- Community involvement in Coquitlam creek and watershed management
- City departments responsible for creek and watershed management
- Metro Vancouver's Liquid Waste Management Plan (LWMP) and its primary components
- Creek and watershed management challenges in urban environments
- The impact of climate change on creek and watershed management modelling data
- Details of Coquitlam's LWMP baseline and the Monitoring and Adaptive Management Framework (MAMF) Program
- Water quality results for North Coquitlam, South Coquitlam and the Coquitlam River
- The City's spill reporting, tracking and response systems and Bylaw Officers' role in reporting spills
- Measured factors included in real-time watershed monitoring
- Real-time monitoring at higher risk sites such as construction sites
- Details of the City's In-Stream Works Program
- Key design criteria for developments and drainage systems
- Key infrastructure and system enhancements including diversion sewers, water quality ponds, boulevard infiltration trenches, rain gardens and oil interceptors/filtration units

Linton Chokie arrived to the meeting at this time (7:31 p.m.).

Discussion ensued relative to the following:

- How often the City's watershed management plans are updated
- Construction dewatering including its use at Coquitlam construction sites and associated challenges
- Regulations around erosion and sedimentation controls for single family homes and larger buildings
- The City's on-site stormflow detention policies for developments in comparison to other municipalities
- Infiltration trenches in boulevards and data on their performance
- The possibility of eventually installing real-time watershed monitoring technology in every Coquitlam creek and river and associated costs
- The rationale for placing real-time monitoring technology at present locations in Coquitlam such as Stoney Creek
- The possibility of acquiring a mobile real-time monitoring unit that can be transferred to other sites
- Continued utilization of consultant staff for real-time monitoring technology and data interpretation
- New requirement for construction projects to have real-time monitoring technology for wastewater runoff and whether this regulation is retroactive
- Road runoff data and possible methods to combat this issue
- Adoption of electric vehicles and their positive impact on road runoff
- The desire to lobby higher levels of government to enact stricter regulations on tire companies to produce cleaner vehicle tires
- The Coquitlam River's recovery as a successful example of community and City efforts to preserve watersheds

3. **Climate Action Plan – Scope, Process and Timeline**

The Manager Environment and the Environmental Sustainability Manager provided the Committee with an on-screen presentation entitled “Climate Action Plan Scope and Process Update” that covered the following topics:

- Climate terminology, mitigation, low carbon resilience and climate adaptation
- Local climate change impacts and examples
- The necessity for Coquitlam to have a climate action plan
- Timeline of Coquitlam’s climate action journey in the last two decades
- BC Climate Action Charter (2007)
- The connection and synergies between existing City environmental plans
- Related City corporate plans and policies such as the Strategic Transportation Plan
- Scope of the City’s Climate Action Plan and its approach, phases, themes and key activities
- Data breakdown of Coquitlam’s greenhouse gas (GHG) emissions by sector and fuel type
- Opportunities for Coquitlam to reduce GHG emissions
- Ongoing engagement with kwikwəḷəm First Nation regarding climate policy
- The Committee’s engagement and input opportunities
- Survey data from the Environmental Sustainability Plan consultation phase in 2019

Discussion ensued relative to the following:

- The feasibility of solar energy use within Coquitlam
- Monitoring of clean energy technology developments
- Sustainable transportation options such as car and bike sharing
- The City’s E-mobility Strategy and E-Scooter Pilot Program
- The feasibility of implementing hydrogen fuel cell technology in Coquitlam
- Limited data access for other transportation options, such as SkyTrain, and their electricity consumption
- City bylaws concerning plastic bags and efforts to reduce their use
- Provincial legislation around single-use plastics
- The desire for heat-management solutions such as heat pumps/air conditioning units in older buildings and planting trees in residents’ yards
- The possibility of embarking on extreme heat studies for local parks
- The desire to reduce natural gas use in new buildings
- The BC Energy Step Code and its climate policy regulations for new buildings
- The necessity of a reasoned approach to climate policy targets and implementation timelines
- Appreciation for kwikwəḷəm First Nation being included in consultations for the City’s climate plans
- Passive House buildings

4. **Environmental Volunteer Celebration Public Event**

The Environmental Education & Enforcement Manager led a brief discussion that covered the following topics:

- The Environmental Volunteer Celebration alternating each year with the Environmental Achievement Awards
- Both events traditionally being invite-only
- The desire by past committee members to open the Environmental Volunteer Celebration to the public
- The possibility to open future Environmental Volunteer Celebrations to the public beginning in 2025
- The Committee unanimously agreed to delay voting on the motion that would open future Environmental Volunteer Celebrations to the public to a future meeting where all Sub-Committee members are present.

5. Committee Members' Roundtable / Emerging Issues

The Chair invited the Committee members to share information and emerging issues from the community.

The following issues and concerns were shared:

- Concern about rat and mice populations increasing due to ongoing construction projects
- Pest control management on private properties and developments
- Improper storage of garbage and waste as a contributing factor to the increase in mice and rat populations
- Desire to ascertain data on areas where rat and mice populations are increasing

OTHER BUSINESS

NEXT MEETING DATE – Tuesday, July 25, 2023

ADJOURNMENT

The meeting adjourned at 8:41 p.m.

MINUTES CERTIFIED CORRECT:

Brent Asmundson, Chair

Caley Amundsen, Committee Clerk



City of Coquitlam

Strategic Transportation Plan Proposed Vision, Goals & Themes

Facebook Instagram YouTube LinkedIn | Presentation to SEAC | Jul 25, 2023 | CEDMS #4942390

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What is the Strategic Transportation Plan (STP)?

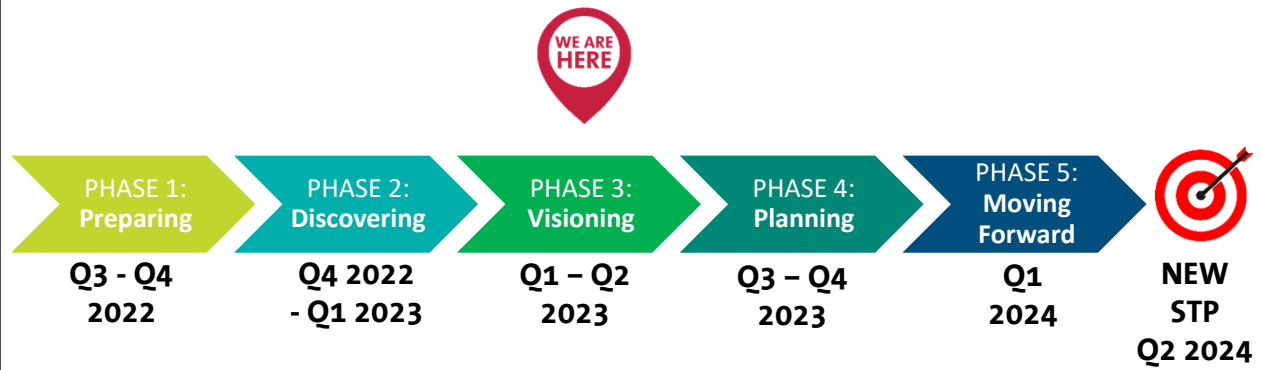
- Create a new **long-term strategic plan** that will guide transportation and infrastructure priorities over the next **25 years and beyond**
- Develop strategies and actions for improving **all modes of transportation**
- **Implementation and phasing plan** to identify short-term **actions and priorities over the next 10 years**



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Project Timeline



New STP will integrate E-Mobility Strategy & Road Safety Strategy

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Phases 1 & 2 Engagement – Key Insights



Many modes of transportation currently used to move in, around and through Coquitlam



Need for transportation to accommodate **diversity of demographic backgrounds and lived experiences**

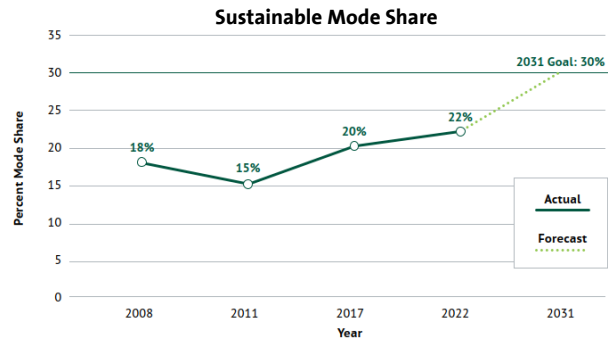
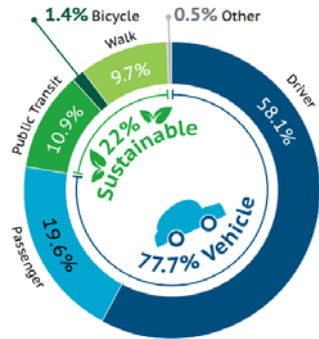


Concerns: safety, inconvenient public transit, high transportation costs

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Coquitlam Household Travel Survey (2022)

Some progress increasing sustainable (walk, bike & transit) mode share BUT the City is no longer on track to meet its current goal of 30% by 2031

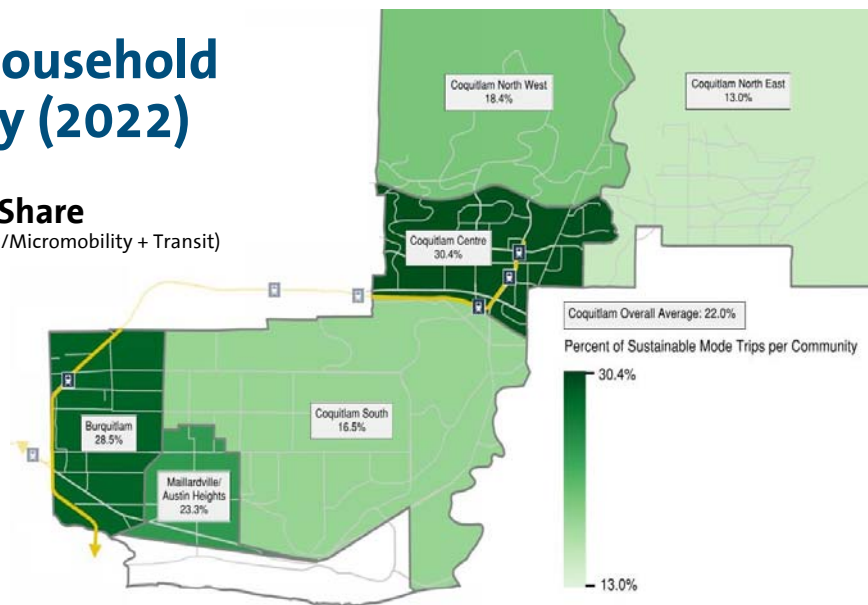


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Coquitlam Household Travel Survey (2022)

Sustainable Mode Share

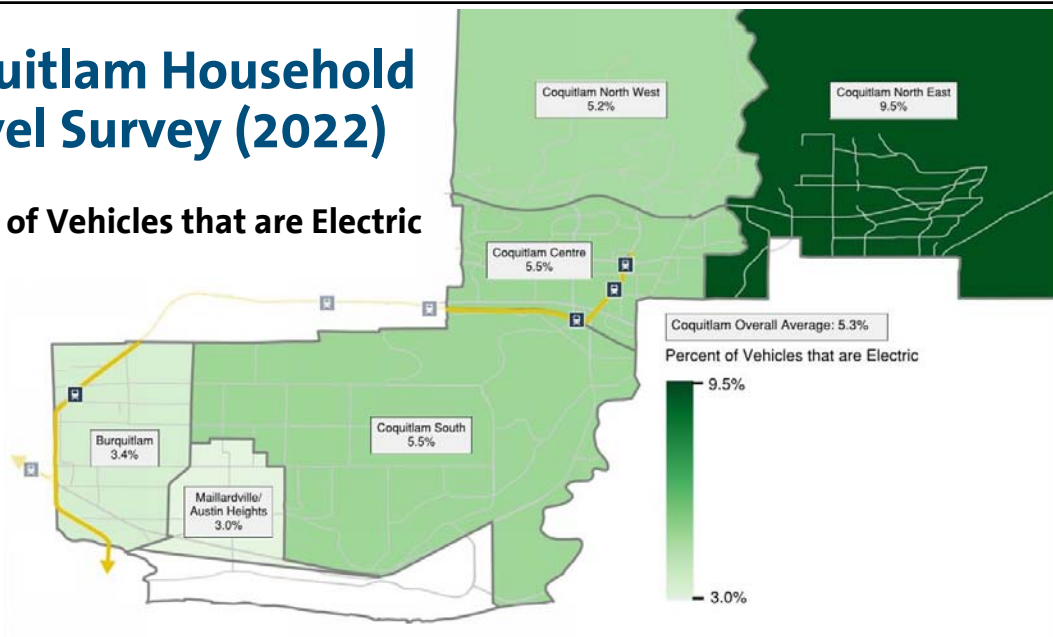
(Sustainable = Walking + Cycling/Micromobility + Transit)



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Coquitlam Household Travel Survey (2022)

Share of Vehicles that are Electric

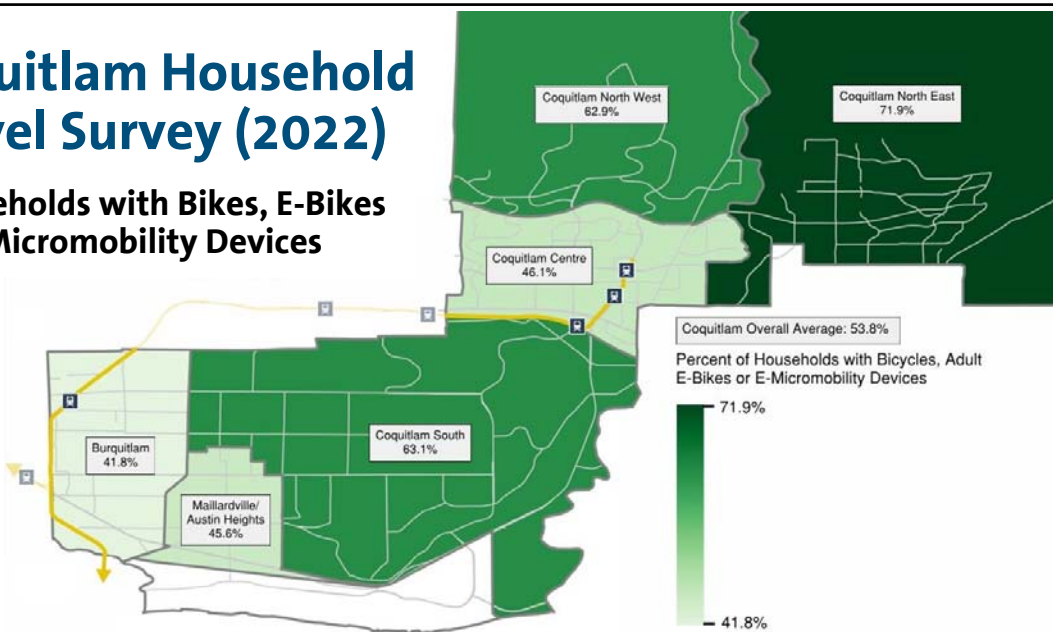


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Coquitlam Household Travel Survey (2022)

Households with Bikes, E-Bikes or E-Micromobility Devices

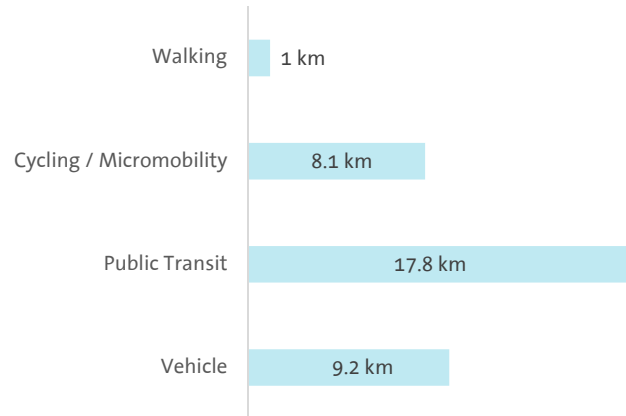


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Coquitlam Household Travel Survey (2022)

Average Trip Distance



Coquitlam Household Travel Survey (2022)

Vehicle trips...

<1.2 km

6%

<5 km

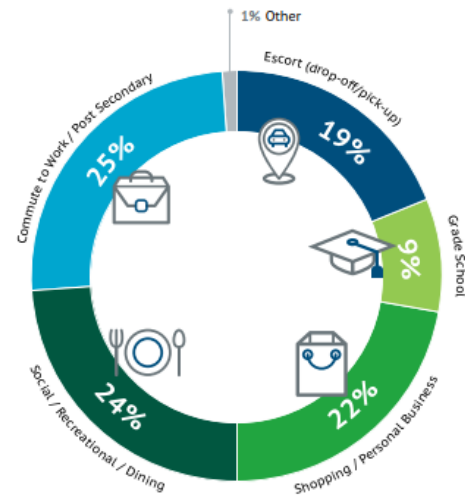
40%

<10 km

65%

Coquitlam Household Travel Survey (2022)

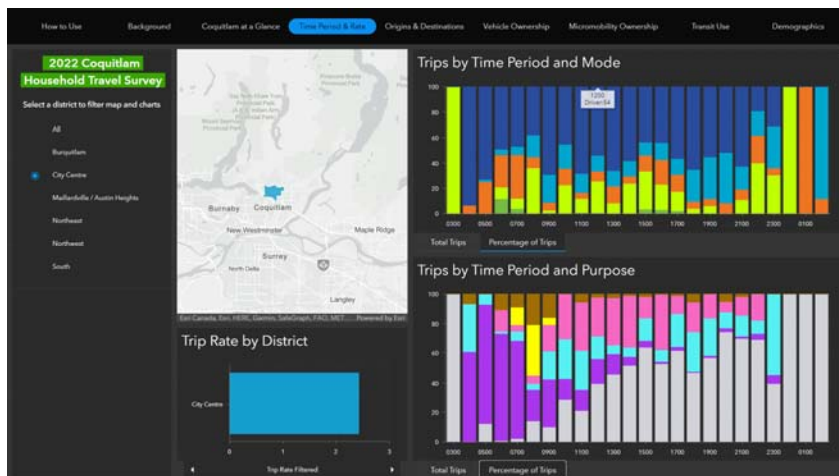
- People travel for a wide range of reasons, not just commuting



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Coquitlam Household Travel Survey (2022)



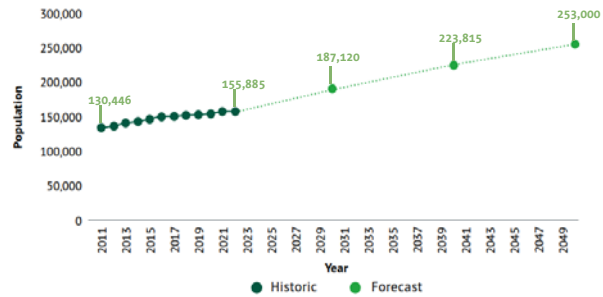
**Interactive survey data
visualization tool**

Visit project engagement
website at
www.letstalkcoquitlam.ca/TransportationPlan

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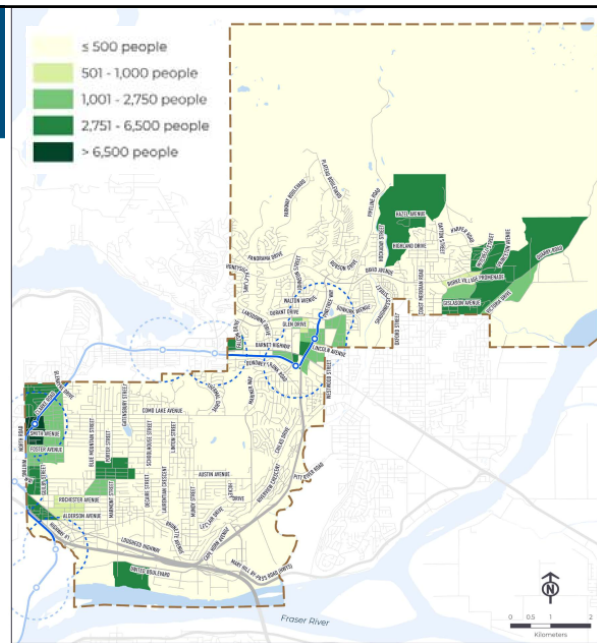
Setting the Stage for 2050 - Demographic Context

- Coquitlam grew by nearly 30,000 residents between 2011 and 2022 and will grow even more in the future, with **100,000 new residents by 2050**
- The number of **seniors** will more than **double** by 2050



Setting the Stage for 2050 - Demographic Context

- Most of this growth will be **near rapid transit** in Coquitlam City Centre, Lougheed, and Burquitlam



Proposed Vision

In 2050, Coquitlam is a **complete** and **connected** community
that
prioritizes the **sustainable movement** of people and goods
to
support a **thriving** economy, **healthy** environment and **equitable** society
with
accessible, safe and **reliable** transportation options for all.

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Proposed 2050 Goals

Sustainable Mode Share

50%

of trips by active
transportation &
public transit

GHG Emissions

Zero

transportation GHG
emissions

Safety

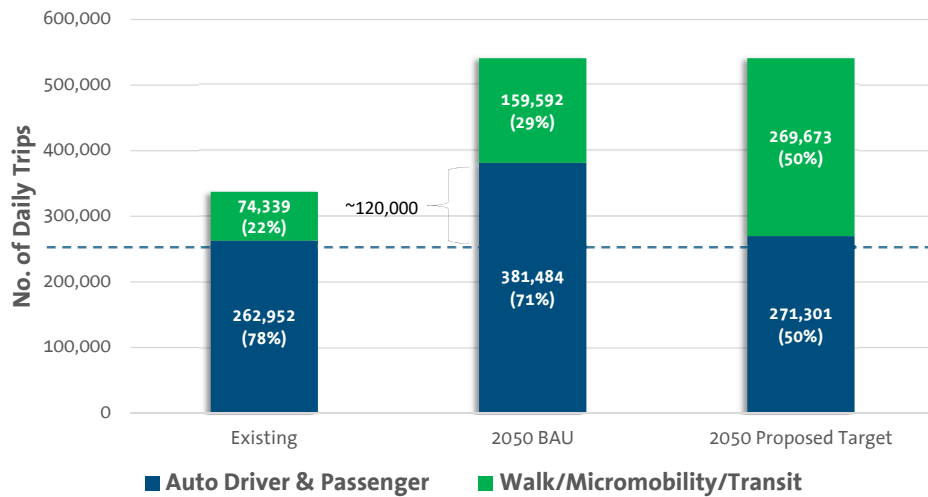
Zero

serious traffic
injuries & fatalities

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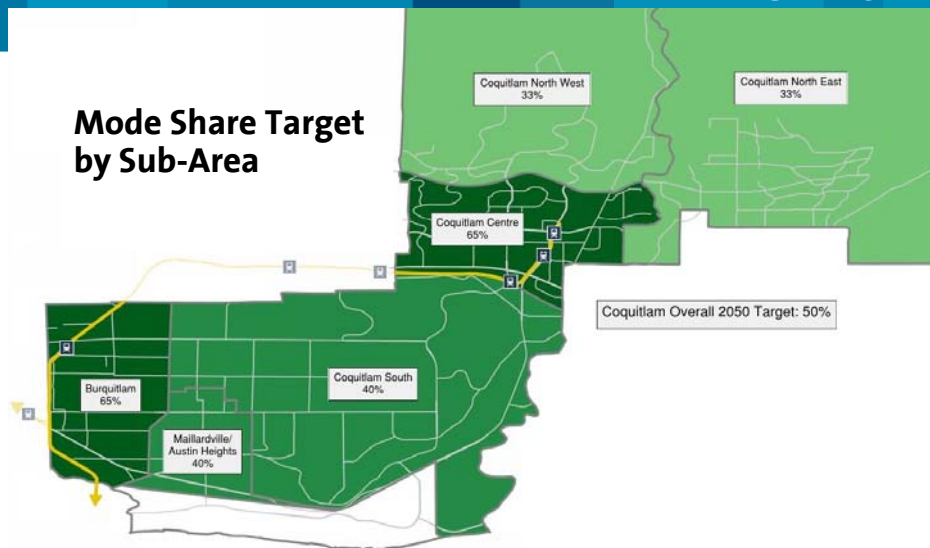
50% sustainable mode share by 2050



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To achieve 50% sustainable mode share target by 2050...

Mode Share Target by Sub-Area



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2050 Goal Alignment

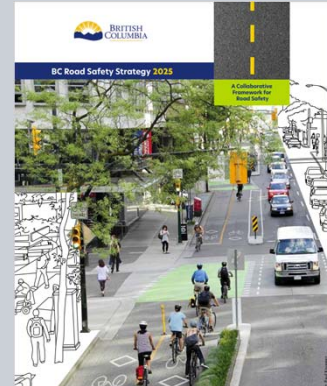
Mode Share



GHG Emissions



Safety



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Proposed Key Themes

1. Safety and Accessibility for All
2. Complete and Connected Communities
3. Sustainable and Innovative Mobility
4. Reliable Transportation Network
5. Fast and Frequent Transit



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1. Safety and Accessibility for All



2. Complete and Connected Communities



3. Sustainable and Innovative Mobility



Source: American Planning Association Courtesy Sandag

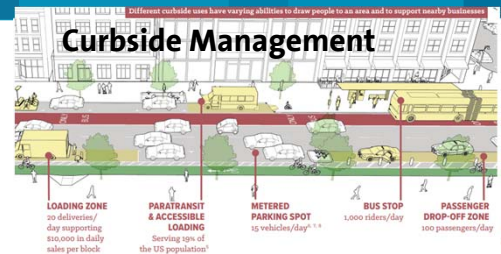


Source: Bloomberg - How e-bikes can reduce Urban Traffic



Source: BC Hydro - Industry Resources for EV fast Charging

4. Reliable Transportation Network



Source: NACTO - Curb Appeal Curbside Management



5. Fast and Frequent Transit



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E-Mobility Strategy

- Set priorities and give clarity on implementation throughout the City
- Advance electrification of multimodal transportation – more than an “EV Strategy”
- Identifies education opportunities and encouragement incentives
- Identifies where EV Stations should go, Development Standards, revise Zoning Bylaw to 100% residential EV Readiness, etc.



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E-Mobility: E-Scooter Pilot

City selected Lime and Neuron for shared e-scooter & e-bike pilot

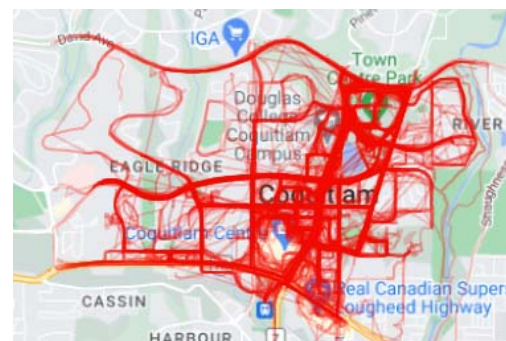
- RFP issued in March, awarded in May
- Operations launched June 29
- 15k trips (as of 7/23)
- 600 trips day
- Shared Micromobility Stations where people can start/end trips and to reduce accessibility impacts



E-Mobility: E-Scooter Pilot

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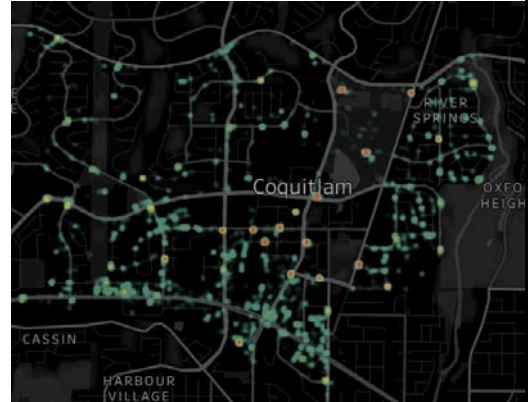
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E-Mobility: E-Scooter Pilot



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Demand for Safer Infrastructure

- **Over half** of households own a bicycle or e-micromobility device
- Most vehicle trips are **very short**
 - 40% of vehicle trips are under 5km
 - 65% of vehicle trips are under 10km
- STP engagement highlights
 - Strong desire to enhance **multimodal options**
 - Concerns with the **high cost** of transportation as a barrier especially by new/recent immigrants



Top barriers to cycling

40% Road safety, traffic speed and dangerous drivers

38% Lack of protected bike lanes or crossings

20% Topography

16% Lack of end trip facilities

16% Personal safety



Top barriers to walking

42% Distance / time

31% Road safety, traffic speed and dangerous drivers

25% Lack of continuous sidewalks and crosswalks

24% Physical capabilities / health concerns

24% Weather

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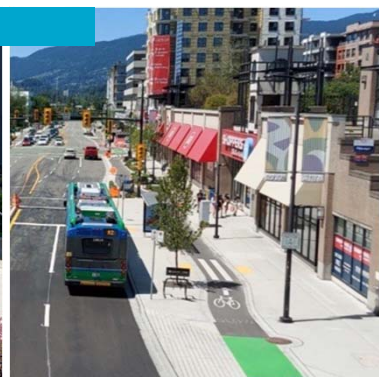
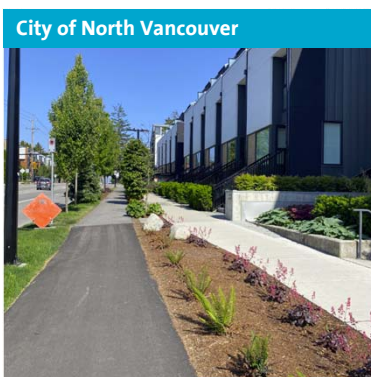
Demand for Safer Infrastructure

Travel Pattern of Survey Respondents

- 16% bicycle more now than they did before the COVID-19 pandemic
- 24% report using an e-bicycle in the last year
- Most Common Micromobility Trip Purpose
 - Commute or grade school (28%)
 - Social or recreational purposes (20%)
 - Commuting to work or post-secondary (18%)
 - shopping or personal business (17%)
- Only 1 out of 5 cyclists are women - strong indication that infrastructure is not comfortable



E-Mobility Strategy: Better Infrastructure



E-Mobility Strategy: Better Infrastructure

City of Coquitlam



City of Calgary



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E-Mobility Strategy: Better Infrastructure

City of Calgary



City of Vancouver



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Best Practice

What Micromobility Users Need

The National Association of City Transportation Officials recommends:

- ✓ **Wider protected lanes** for wider devices and passing
- ✓ **Safe and maneuverable** intersections and driveways
- ✓ **Smooth surface** for devices with small wheels
- ✓ An **easily identifiable network** that people would want to use

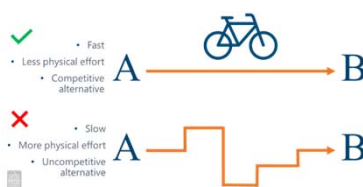


Best Practice

COHESION: Connecting origins and destinations
Cycling from anywhere to everywhere



DIRECTNESS: Creating short and fast routes
Minimising detours



SAFETY: Avoid differences in SPEED and MASS
Create homogenous traffic flows



COMFORT: minimal stops or nuisance



(UN)ATTRACTIVENESS



Micromobility Network: Proposed Vision

Micromobility Network

Vision

A safe, convenient and comfortable AAA network for micromobility users that support all trip purposes from Anywhere to Everywhere.

2050 Goal

That most residents/businesses are located no more than 400m from the Micromobility Network

Greenway Network

Vision

Part of the Micromobility Network that provides an enhanced experience for all users through the use of high quality continuous public spaces.

2050 Goal

That most residents/businesses are located no more than 1 -2 km or a 10 -20 minute walk from a greenway

Micromobility Network: Proposed Principles

Cycling/Micromobility Principles

- ✓ Direct routes to key destinations
- ✓ **Enable door to door trips**
- ✓ Includes landscaping and lighting
- ✓ Physical separation on busy streets
- ✓ All Ages and Abilities/Comfortable and attractive routes for Most
- ✓ **Within 400m from most residents/businesses**

Greenway Principles

- ✓ Direct routes to key destinations
- ✓ Includes landscaping, lighting, **pedestrian amenities, public art and more**
- ✓ Physical separation on busy streets
- ✓ All Ages and Abilities/Comfortable and attractive routes for Most
- ✓ **10-20 min walk or 1-2km from most residents/businesses**

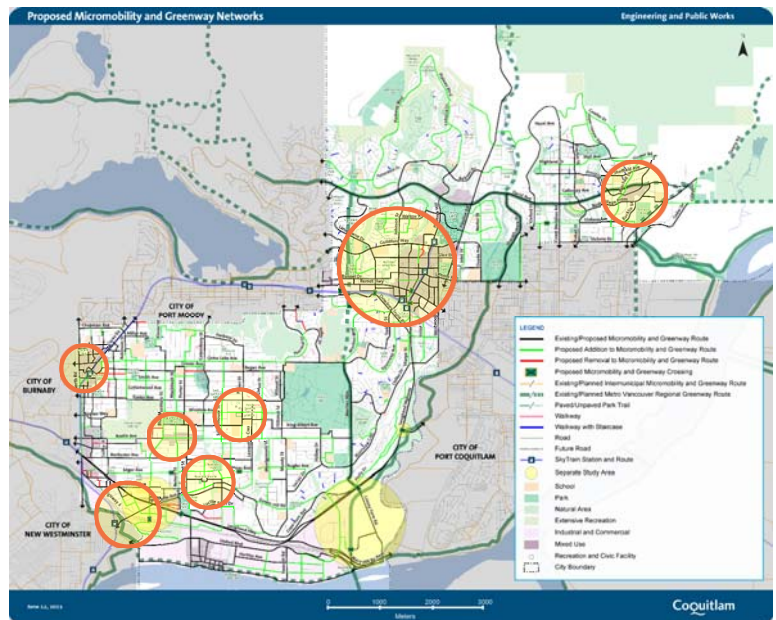
Proposed Network Highlights

✓ Connect Destinations

✓ Remove Barriers

✓ Direct Routing

✓ Regional Connectivity



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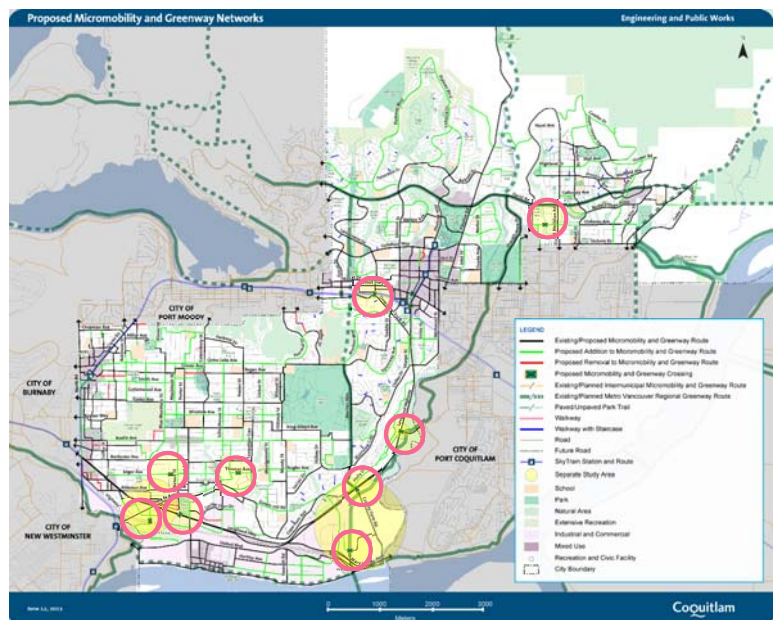
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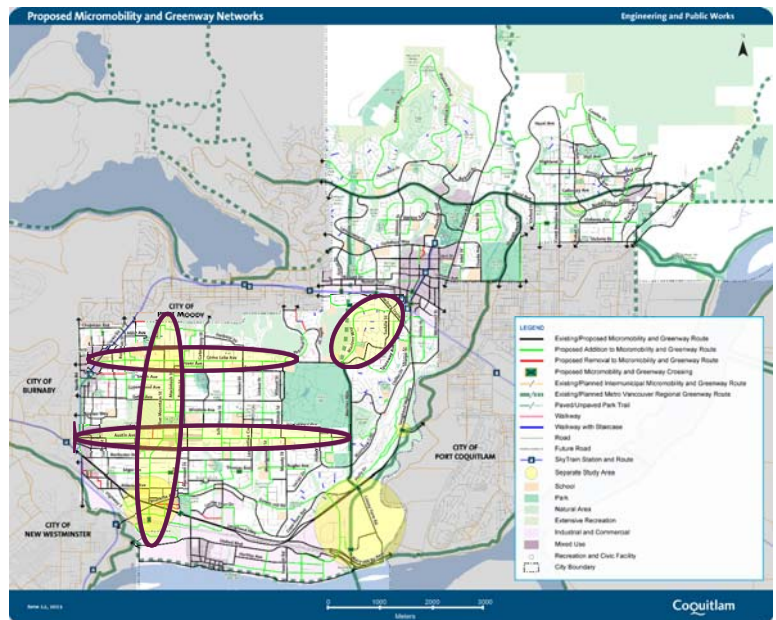


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Proposed Network Highlights

- ✓ Connect Destinations
- ✓ Remove Barriers
- ✓ Direct Routing
- ✓ Regional Connectivity

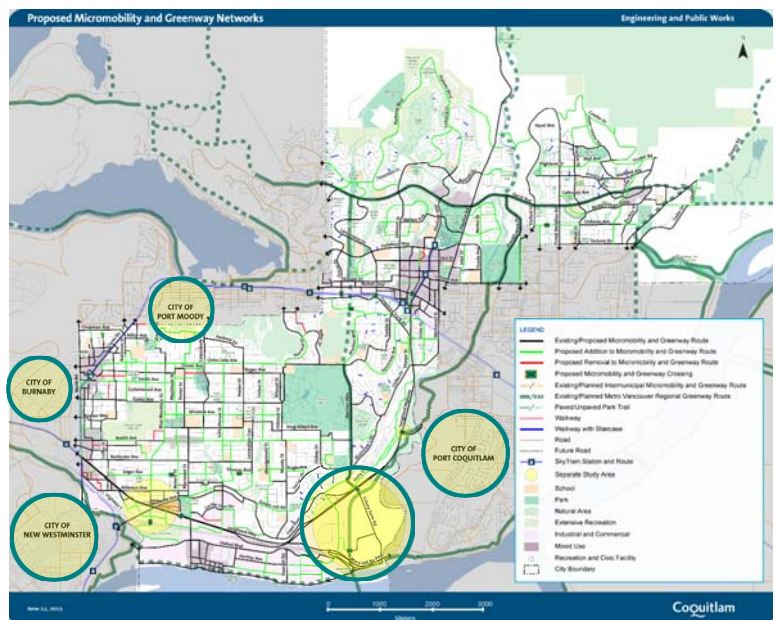


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Proposed Network Highlights

- ✓ Connect Destinations
- ✓ Remove Barriers
- ✓ Direct Routing
- ✓ Regional Connectivity

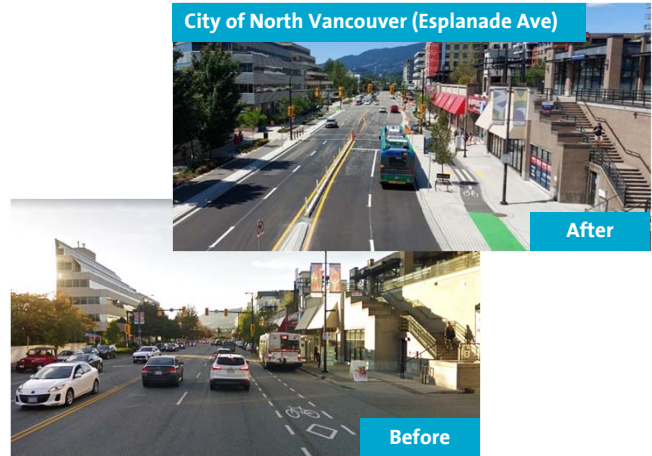


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Micromobility: Next Steps

- Develop draft 2050 Micromobility and Greenway Network
- Engage with stakeholders
- Refine 2050 Networks and develop 2030 priorities
- Seek Council Approval as part of STP process



Next Steps

- Analysis of Phase 3 community engagement results
- Develop interim 2030 goals
- Develop actions and policies to achieve 2030 & 2050 goals



**Questions
about the
project?**

**Strategic Transportation Plan
Project Team**

604-927-3500

transportationplan@coquitlam.ca

letstalkcoquitlam.ca/transportationplan

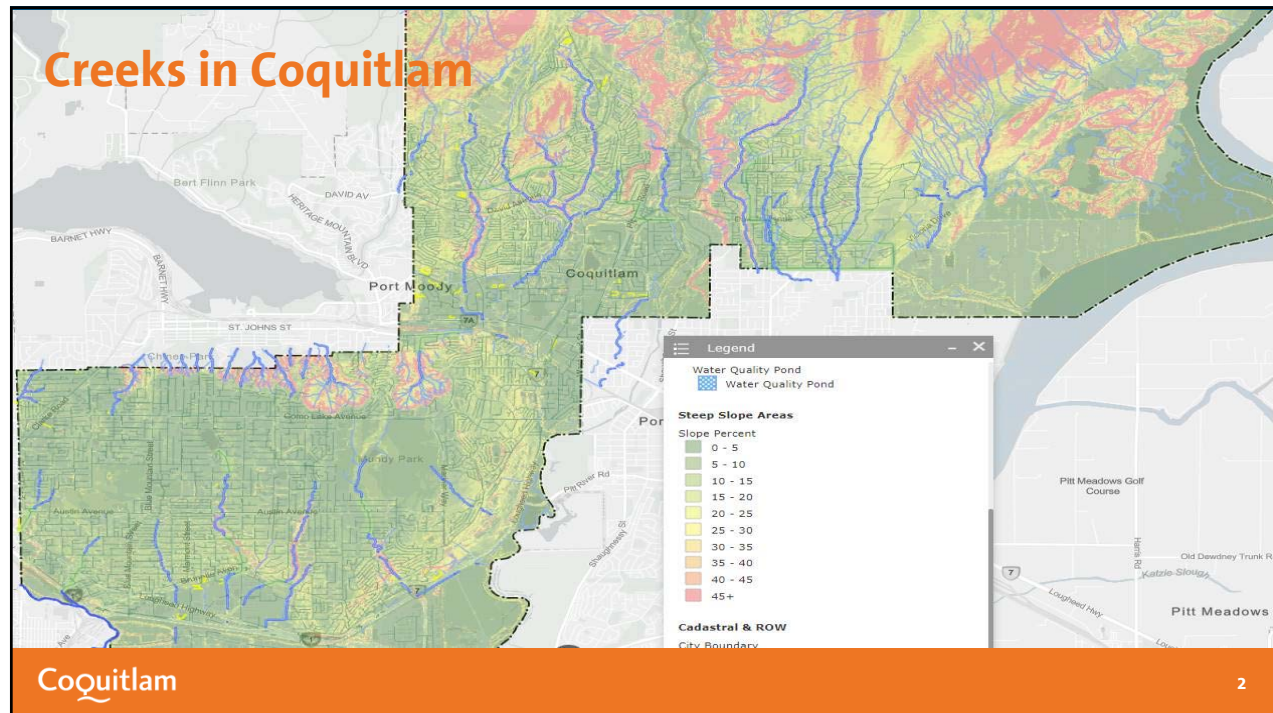
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Agenda

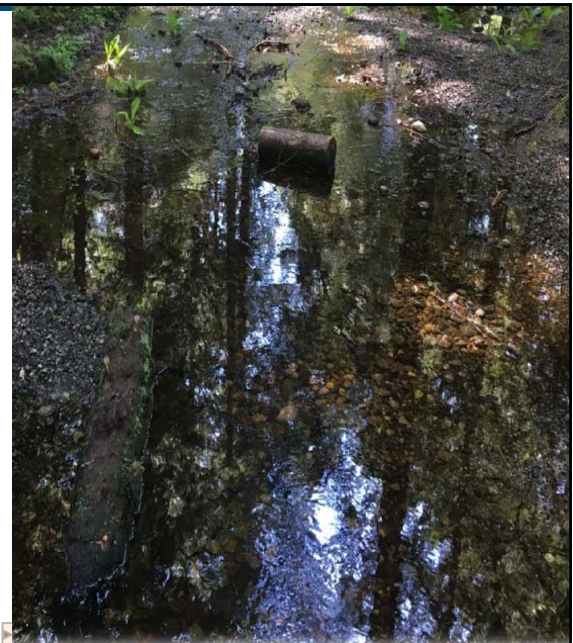
1. Why assess creek hazards?
2. What programs exist now?
3. Assessment methodology and timeline
4. Next steps





Why assess?

1. Creeks form part of natural assets
2. Creeks are live assets and thus changing
3. Climate change impacts on creeks
4. City's in-stream works program



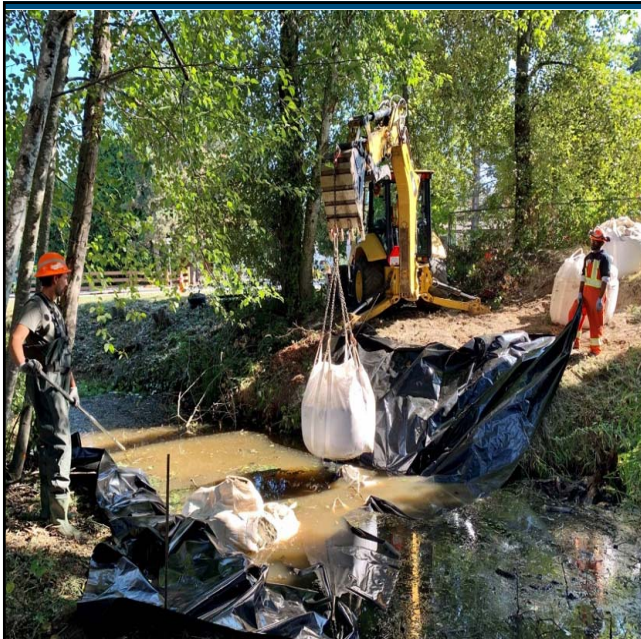
What programs exist now?

- Culvert inspection and replacement
- On-call geotechnical engineer
- Previous rehabilitation works
- 2022 zoning/building bylaw
- Construction of diversion sewers



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In-stream Works

- Delivered by Public Works over the past 2 decades
- About \$1M worth of works annually since 2019

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Creek Hazard Assessment & Mitigation

- Delivered by Engineering
- Long-term management perspective
- Major works to ensure conveyance capacity
- Continuous assessment and multi-year hazard mitigation plan

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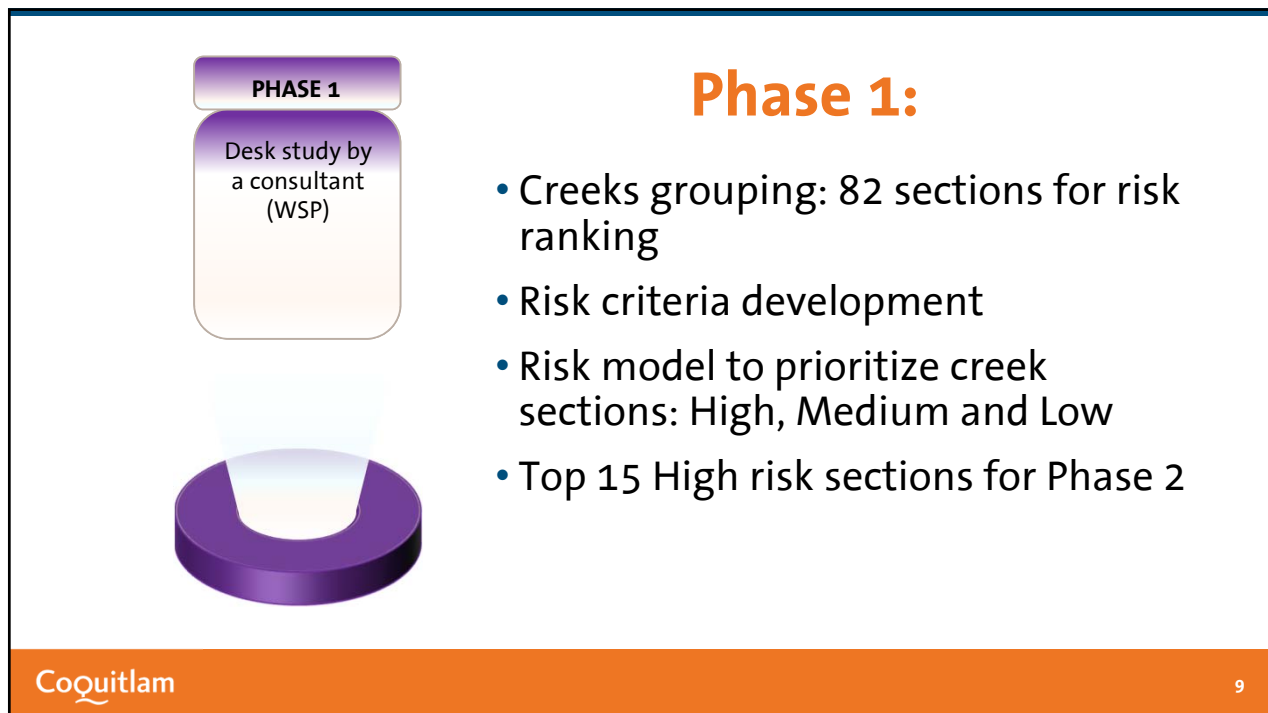
Creek Hazard Assessment and Mitigation

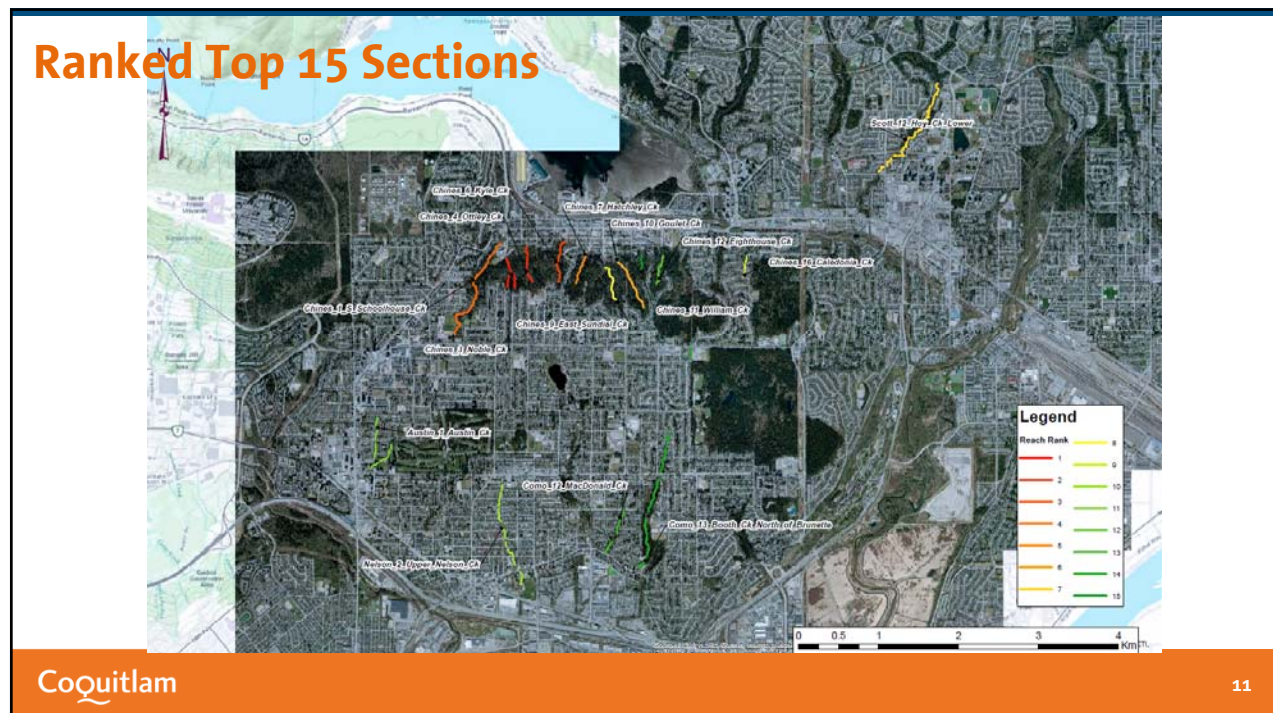
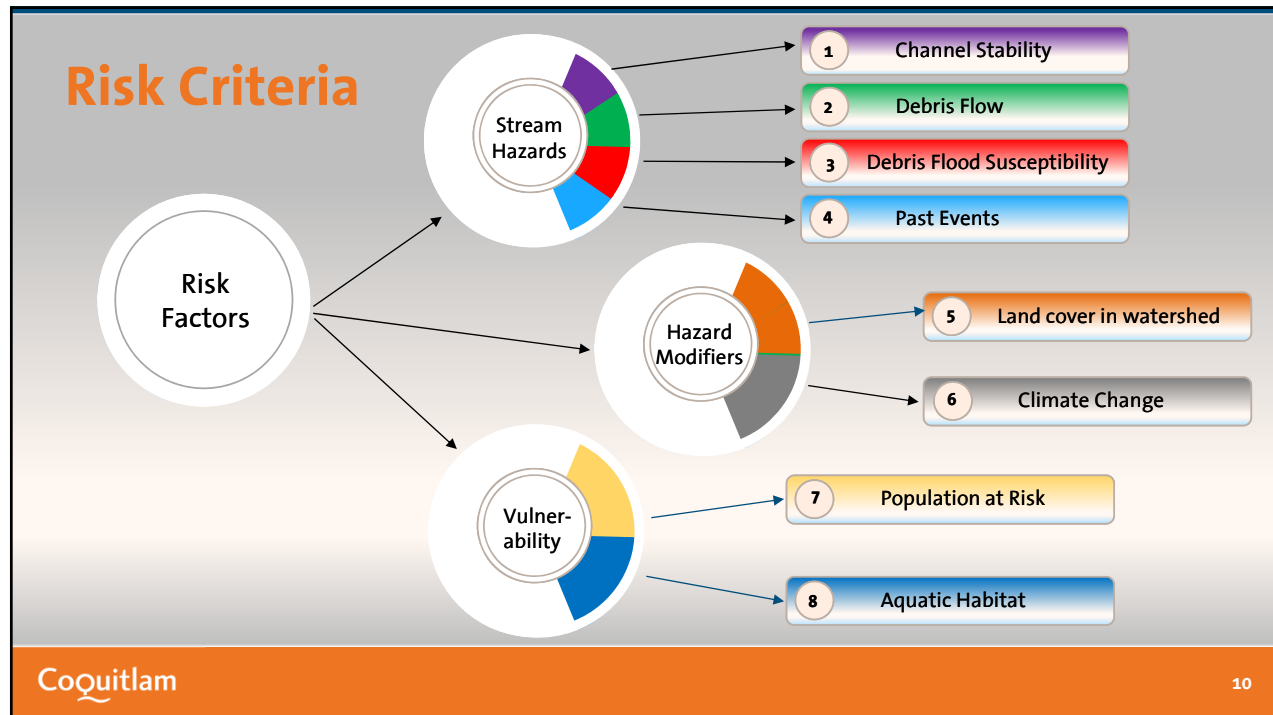
Scope:

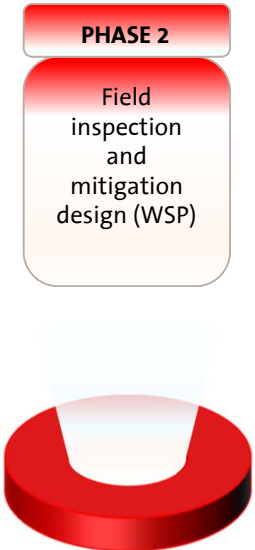
- Assess all creeks in the City, about 300km
- Ensure conveyance capacity, avoid impacts to people and properties
- Develop a Master Plan to assess, inspect, and mitigate hazards within jurisdictional boundaries
- Plan funding and construction works under a multi-year program
- Continue to monitor periodically to understand impact as Climate Change unfolds.

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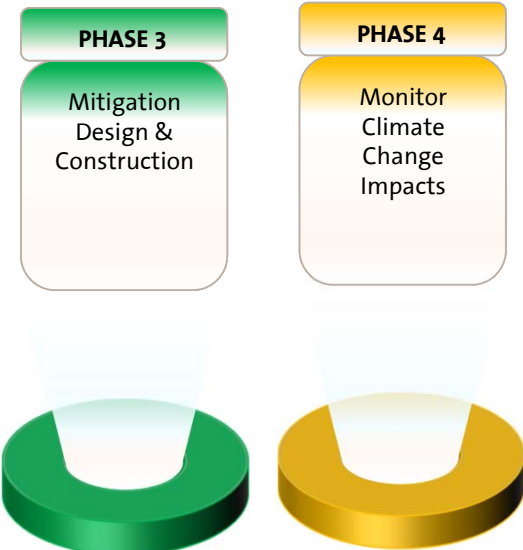




Phase 2:

- Confirm desktop assessment through field inspections
- Re-prioritize based on field data, if required
- Develop the Hazard Mitigation Master Plan
- For top 3 sites: hazard mitigation design, and cost estimate
- Budget for multi-year construction

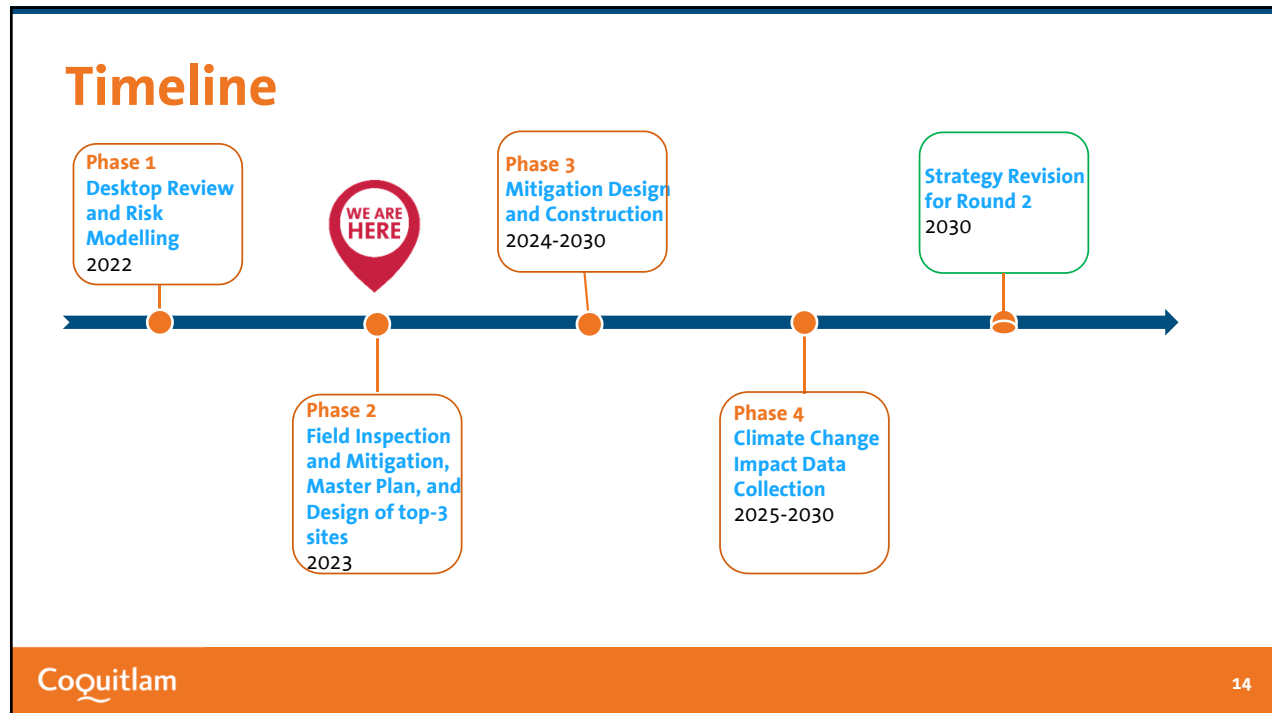
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Phase 3 & 4:

- Complete design and construction of all High-risk creek sections
- Climate change impacts monitoring, in 5-10 year timeline

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Next Steps:

- Update Council in 2024
- Consult stakeholders as needed
- Approvals and construction
- Review program effectiveness



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Thank you &
Questions?

    
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Purpose

- Review Coquitlam's planning framework and the purpose of a Strategic Plan
- Share how we're renewing the plan, and what components are expected to be updated
- Opportunity for input/engagement exercise



Coquitlam's Integrated Planning Process

Council approves all plans & projects

Community Engagement through:

- Public meetings
- Community stakeholders
- Government partners
- City employees
- Businesses
- Residents



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What is a Strategic Plan?

- Outlines a framework for decision-making and outcomes over a set period of time
- In municipal sector, focus on the core responsibilities of local government
- Contains organization's vision, missions, values, strategic goals and broad statements about how goals will be achieved and measured
- Strategic Plan was last updated for 2020-2023; this is the first opportunity to renew the plan against the 2032 vision



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What is in the Strategic Plan?

Core Components – Established in 2020

- Vision and Mission Statements
- Five Strategic Goals

Components to be updated in 2024 & 2028

- Strategic Direction statements
 - How the vision and goals are achieved
- Key Performance Indicators
- Organizational Values

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2024-2027 Renewal

Over the next few months, we will be conducting an engagement process to update the plan:

- Online engagement using a public open survey
- Pop-up in-person engagement at Canada Day
- Formal sessions with community groups (like this)



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Environmental Scan

Part of updating the Strategic Plan is looking at the macro-environmental factors to identify broad themes.

- Themes identified as part of the City's Annual Business Plan
 - Equity, Diversity and Inclusion; Reconciliation; Balanced Growth and Livability; Resiliency
- Themes identified as part of the Ipsos Survey
 - Post-pandemic realities; Housing Affordability; Transportation
- Other macro-environment themes
 - Economic uncertainty; Public Safety; Environmental Anxiety

Engagement Activity

How will your input be used and communicated to Council?

- Responses will be grouped thematically
 - Specific actions that we hear over and over could be included as deliverables
- No unique-identifiers will be used and feedback will be grouped by the type of engagement activity (public survey, pop-up, community group)
- All feedback will be shared with Council in a report in the fall
- Responses will be used by City staff and Council to develop specific deliverables and actionable items, using the Strategic Goals

[Activity Link](#)

Thank you!

- Please share the open survey link with your networks

[Letstalkcoquitlam.ca/strategicplan](https://letstalkcoquitlam.ca/strategicplan)



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2024-2027 Strategic Plan Renewal Process

Thank you!

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