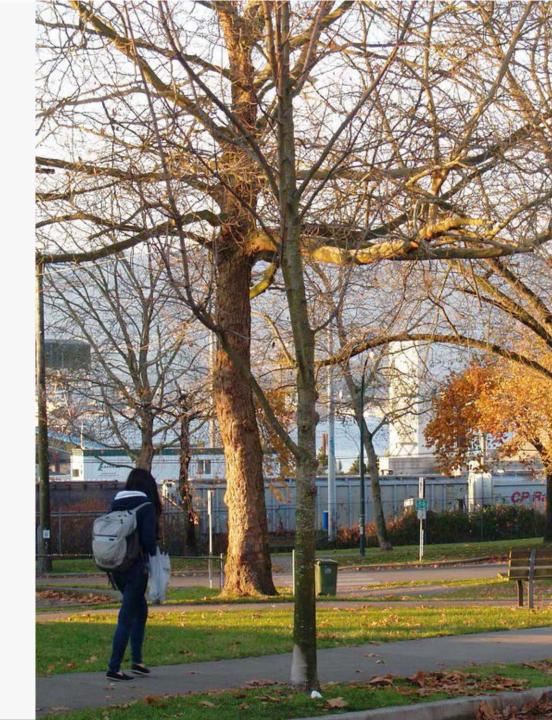
Grandview-Woodland Neighbourhood Transportation & Parking

Stakeholder Advisory Group

> Meeting # 3 May 11, 2017









Introductions



Introductions & Welcome



- Grandview Woodland Area Council
- East Village / Hastings North BIA
- Commercial Drive Business
 Society
- Italian Day Festival
- ISS of BC
- The Kettle Society
- Kiwassa Neighbourhood House
- Vancouver Coastal Health

- REACH Community Health Centre
- TransLink
- Streets for Everyone
- BEST
- HUB
- Advisory Committees
 - Persons with Disabilities
 - Seniors'
 - Active Transportation
 - Urban Aboriginal Peoples
- City of Vancouver
 - Dale Bracewell, Hailey Steiger-Tang, Carol Kong, Liliana Quintero
 ³

Agenda



- 6:30 pm Intros & Welcome
- 6:40 pm Project Updates
- 7:10 pm False Creek Flats & East West Arterial Update
- 7:20 pm Break
- 7:30 pm Moving Towards Zero
- 8:00 pm Closing & Next Steps



Project Updates

Complete Streets

Why Complete Streets?

- Help achieve Transportation 2040 targets on mode share and safety
- Renewable City Strategy
 - *T.1.2 Enhance and accelerate the development of complete streets and green infrastructure*
- Deliver better streets for all users and promote sustainable transportation

Also Supported by

- Other Citywide policies:
 - Greenest City Action Plan
 - Healthy City Strategy
 - Citywide Integrated Rainwater Management Plan (IRMP)
- ATPC Motion





What are Complete Streets?

Transportation Perspective

- Consider needs of people of all ages & abilities
- Integrate planning for all modes of travel
- Ensure critical mobility and access functions are met
- Respond to local context, and connectivity and reliability of the broader transportation network



















City of Vancouver

What are Complete Streets?

Broader Perspective

- Bring a holistic lens to street design
- Integrate seamlessly land use, transportation, urban design, green infrastructure and public space
- Promote public life and deliver context sensitive public realm
- Help create Complete Communities

















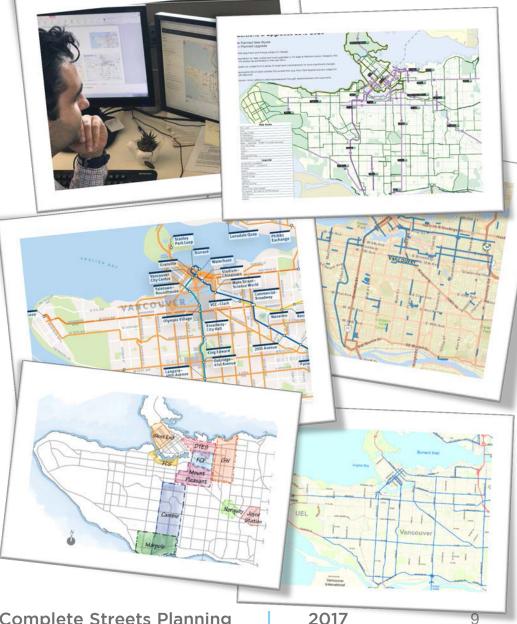


Street Typology and Network Considerations

Not a one-size-fits all approach

Typologies informed by:

- **Transportation function** within a broader network
- Available **right-of-way**
- **Type of street** driven by land use intensity and activity
- Other factors that make a street **unique**

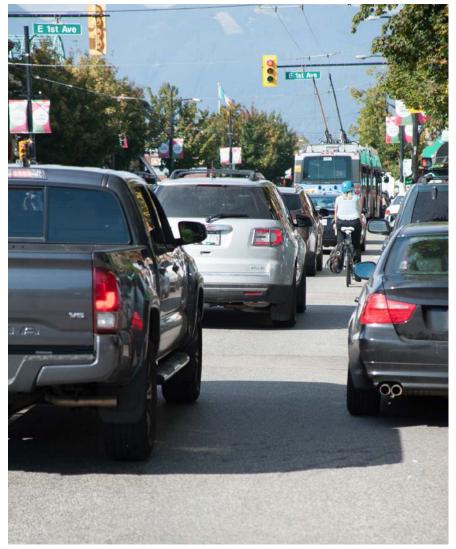


Complete Streets Planning

Opportunity to Improve Delivery

Existing City Engineer Authority:

- First enacted in 1944
- Allows for motor vehicle infrastructure:
 - Mark and modify traffic lanes for moving vehicles
 - Designate and regulate parking on streets
 - Locating and establishing vehicle traffic controls on streets
- But doesn't allow for:
 - Modification to improve walking,
 biking and transit infrastructure (per T2040)



Recommended amendments to modernize the Street and Traffic By-law

Update City Engineer's delegated authority to

- Reallocate public right-ofway for different modes and uses
- Divert general motor vehicle traffic from streets
- **Reroute transit** access onto different streets

Allows for more efficient delivery of improvements to achieve T2O40 targets



Complete Streets

Recommendations:

- Council receive for information the Citywide Complete Streets policy framework
- Council approve amendments to the Street & Traffic Bylaw to facilitate street modifications to support Transportation 2040 safety and mode share targets, and delivery of more Complete Streets

Council instruct the Director of Legal services to bring forward for enactment amendments to the Street and Traffic By-law

Congestion Management Strategy



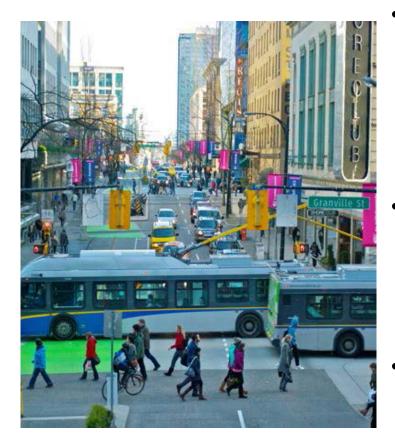


Road network policies

- Optimize network operations to manage congestion impacts
- Consider impacts to transit, commercial vehicles, and general traffic flow prior to reallocating road space
- Manage traffic to improve safety, business activity and neighbourhood livability

Congestion Management Strategy





- Slower moving vehicles can be helpful to improve neighbourhood livability, business activity and reduces risk of traffic-related injuries or fatalities
- Congestion is **harmful** as it impacts travel times of transit and goods movement, and increases emissions
- Sustainable transportation is prioritized in Vancouver, however vehicle congestion that is not **managed** can negatively affect urban areas and the economy



Goals

- 1. Improve monitoring of traffic conditions and trends
- 2. Improve road safety
- 3. Ensure a smart and efficient transportation system
- 4. Coordinate street use
- 5. Prioritize people & goods movement

Transit - Millennium Line Broadway Extension







Consultation on Key Project parameters targeted for June

- Managing construction impacts
 - Traffic
 - Business Access
 - Walking/Biking
 - Transit

- Design considerations
 - Stations
 - Public Realm
 - Intermodal connections



- Business & Goods Movement Survey results are online
 Business engagement
 - Ongoing analysis: Parking, loading, volumes, transit data, etc.
 - June 2017: Loading and parking newsletter update
 - Fall 2017: Information session on loading and parking

Summer 2017

 Pop-up events on the Drive regarding walking, public spaces, placemaking (with VIVA Vancouver)



10th Avenue & Union-Adanac Corridors

Union-Adanac Corridor

- Spot improvements proposed at Jan 2017 open houses
- Design adjustments made based on feedback e.g. reduced impacts to parking
- Updates to Victoria Drive & Nanaimo Street residents underway. Updates soon on <u>vancouver.ca/adanac</u>

10th Avenue Corridor: Commercial-Victoria

- Minor refinements based on Nov 2016 feedback
- Construction of interim improvements anticipated in late 2017 or 2018





Broadway Triangle Transportation Study



- "Listen and learn" session with residents - May 18th, Trout Lake Community Centre 6:30-8:30pm
- Discuss transportation related concerns and opportunities for improvement, in the context of proposed land use changes
- Study to assess existing vs. future traffic conditions (as per changing land use) and to identify range of potential solutions



First Avenue - FortisBC Work (2018)



Fortis BC Pipeline Replacement Project

- Replacing deteriorating 20" pipeline on 2nd Avenue with a 30" pipeline on 1st Avenue
- Improve safety and reliability of City's gas supply
- East 1st avenue from Boundary to Woodland Drive, including segment on Graveley St.
- January September 2018



First Avenue - FortisBC Work (2018)

Traffic Management

- Boundary to Nanaimo St
 - Closure of eastbound lanes on E 1st Avenue,
 - One-lane two-way traffic within the westbound lanes
- Nanaimo to Clark
 - Full closure
 - 2 month window (July/August)
 - Trenchless crossings of Nanaimo and Commercial



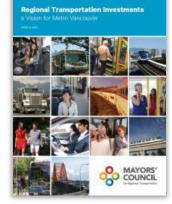
10-Year Vision Update

Grandview-Woodland Transportation Advisory Group May 11, 2017 Andrew Tester, TransLink



The 10-year Vision is our Regional Blueprint for Multimodal Transportation Investments

Welcome 1 million more people and 500,000 LIONS BAY more jobs in the next 30 years Maintain gateway competitiveness and • Canada's strongest economy Advance environmental policy objectives . BOWEN ISLAND NORTH VANCOUVER WEST DISTRICT VANCOUVER NORTH ANCOUVE COQUITLAN POR COQUITLA PITT MEADOW MAPLE RIDGE SURRE RICHMOND DELTA LEGEND - Upprades to Existing Rapid Tran - New Rapid Transit New or Upgraried 8-Line Joorades to SeaBu noracles to West Coast LANGLEY New Pattulio Bridge TSAWWASSEN O TOWNSHIP New Bin Service & FIRST NATION WHITE ROCH

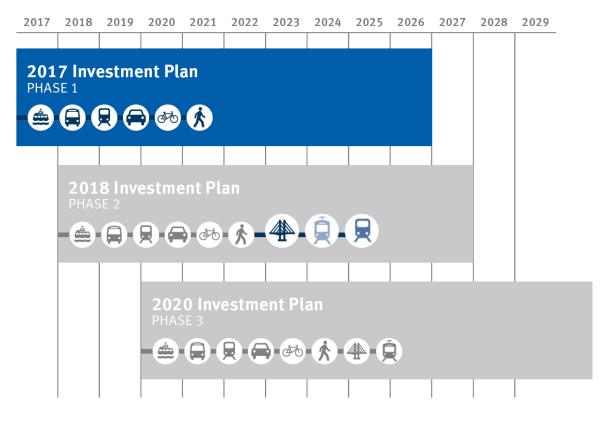


- New buses to expand bus service by 25%.
- New SkyTrain cars.
- Station and bus
 exchange upgrades.
- New **rapid transit** in Vancouver, Surrey & Langley.
- New SeaBus, with service every 10 mins.
- 80% more NightBus
- \$200M for walking & cycling, w/ 2,700km of new bike lanes
- \$330M for upgrades and seismic investments of roads



2017 Investment Plan to be Phase One of Implementing the 10-Year Vision







LIONS BAY



The Phase One Plan will improve transportation across the region

BELCARRA?

NORTH VANCOUVER

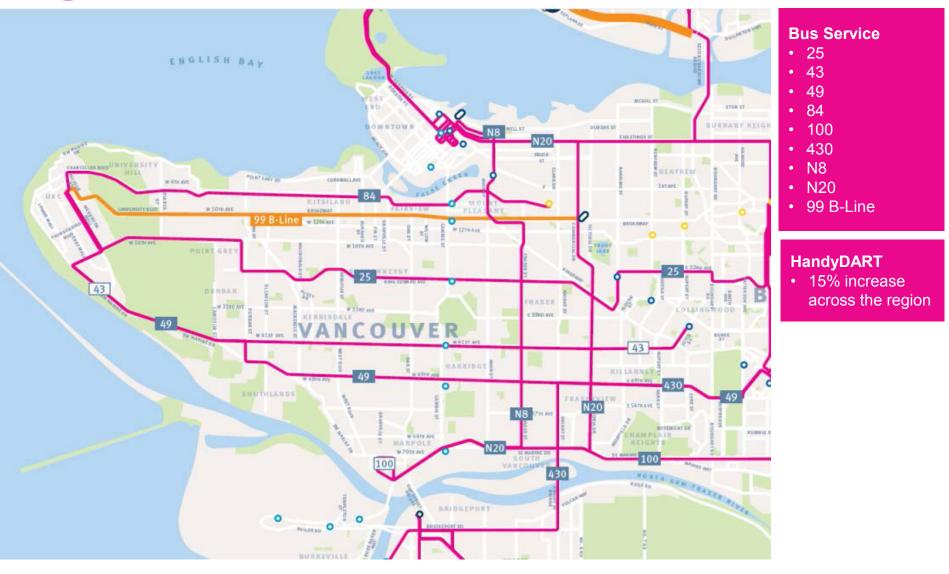
Service design, including routing, for new transit services, will be confirmed through collaboration with municipalities and project-level public consultation.



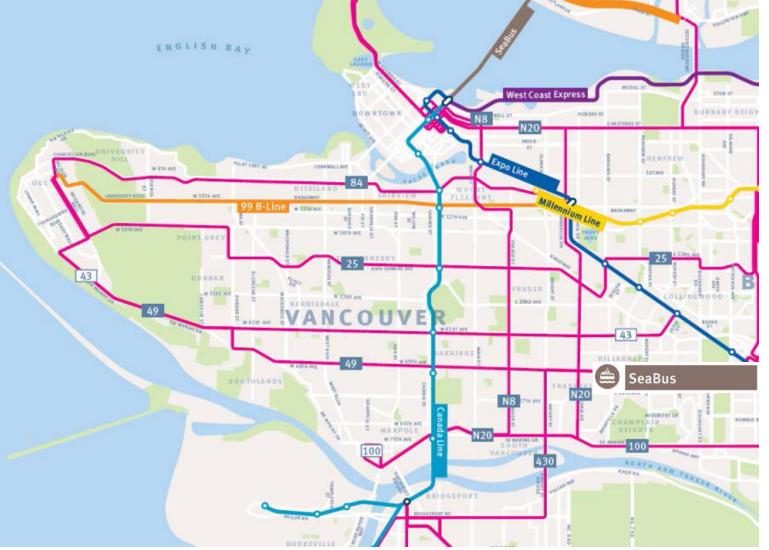




Bus Service Improvements



Other Transit Improvements





28 new rail cars

戻 Canada Line

- 22 new rail cars
- Station upgrades

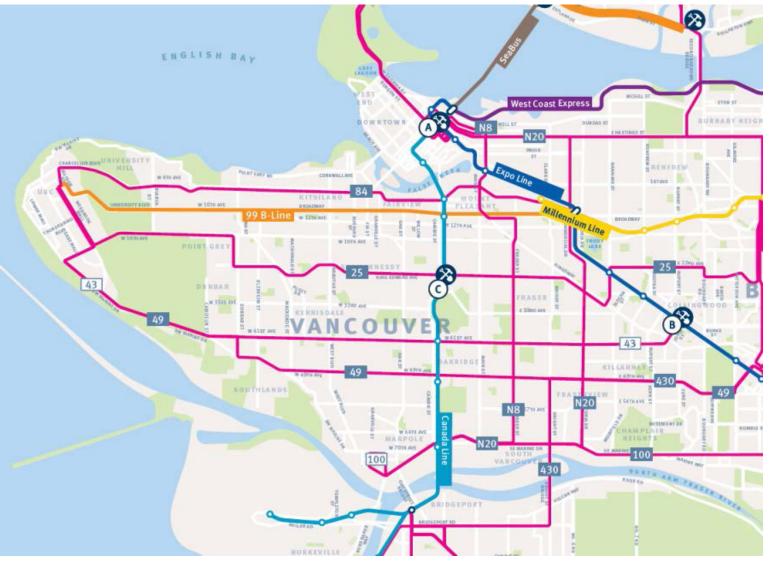
SeaBus

- Increase frequency to **15 minute service** all day, 7 days a week.
- New SeaBus, with frequency increased to every 10 minutes during the AM and PM peak.



5 new cars

Infrastructure Improvements



Infrastructure Improvements A. Burrard Station B. Joyce-Collingwood Station (Phase 2) C. King Edward Station





Completing the 10-Year Vision for Metro Vancouver Transit & Transportation 30

	Entire 10-Year Vision	Phase One Approved / Underway	Phase Two Working Assumptions	Phase Three Remaining Investments
Bus Service	25% increase 11 new B-Lines	10% increase 5 new B-Lines	6% increase 2 new B-Lines	9% increase 4 new B-Lines
SeaBus Service	 1 new SeaBus 10 min peak frequency; all-day FTN service (every 15 mins or better) 	 1 new SeaBus 10 min peak frequency; all-day FTN service (every 15 mins or better) 		
HandyDART	30% increase	15% increase	7% increase	8% increase
SkyTrain & West Coast Express (WCE)	 114 Expo/Millennium Lines cars 22 Canada Line cars 10 WCE cars + locomotive 	 28 Expo/Millennium Lines cars 22 Canada Line cars 5 WCE cars + 1 new locomotive Upgrades to Expo/Millennium & Canada Line stations 	 86 Expo/Millennium Line cars (including Broadway Extension) Upgrades to Expo/Millennium & Canada Line stations 	 5 WCE cars Upgrades to Expo/Millennium & Canada Line stations
Major Projects	 Millennium Line Broadway Extension Surrey-Langley Rapid Transit Pattullo Bridge Replacement 	 Pre-construction on Broadway Extension Pre-construction on Surrey-Newton- Guildford LRT Design for Pattullo Bridge Replacement 	 Construction of Broadway Extension Construction of Surrey-Newton- Guildford LRT Construction of Pattullo Bridge Replacement Pre-construction on Surrey-Langley LRT 	Construction of Surrey-Langley LRT
Major Roads Network (MRN)	• MRN expansion: 1% annual increase + one-time 10% increase MRN upgrades: \$200M MRN seismic: \$130M	 MRN expansion: 1% annual increase + one-time 10% increase \$50M (25% of Vision) \$32.5M (25% of Vision) 	\$40M (20% of Vision) \$26M (20% of Vision)	\$110M (55%) \$71.5M (55%)
Walking &	Regional Cycling \$131M Walking Access to Transit: \$35M	\$41.3M (32% of Vision) \$12.5M (36% of Vision)	\$23.8M (18% of Vision) \$10M (29% of Vision)	\$65.9M (50% of Vision) \$12.5M (36% of Vision)
Transit Exchanges	13 new or expanded transit exchanges	3 updated transit exchanges, in addition to 2 exchanges as part of Surrey pre-construction work	2 upgraded transit exchanges	6 upgraded transit exchanges
		Phase One investments dependent on enabling legislation for new regional development fee	Working assumptions as of Feb 2017	Subject to refinement after Phase Two development



False Creek Flats + E-W Arterial

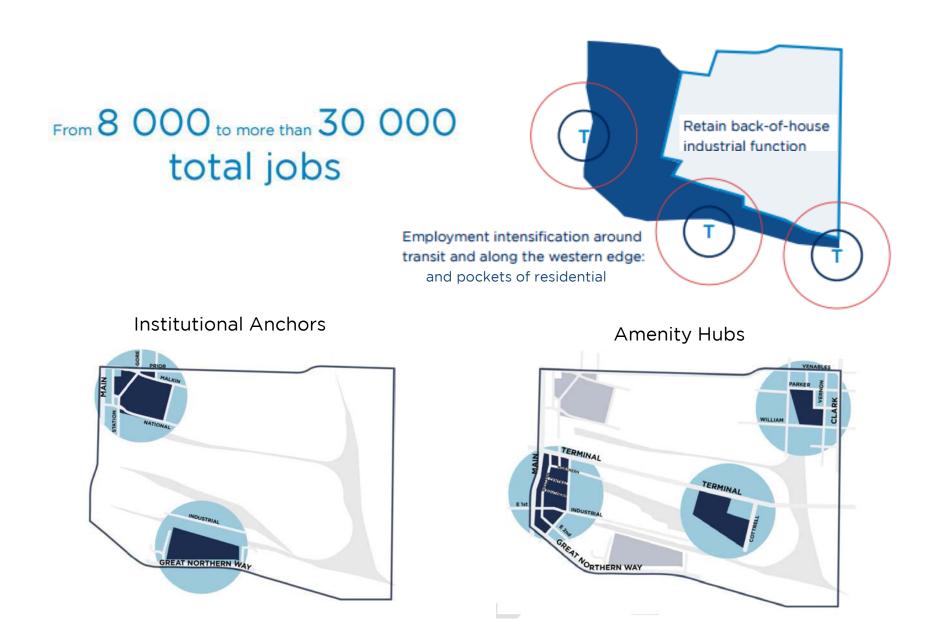
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The plan seeks to unlock the economic potential of the area by creating a more productive, sustainable and integrated False Creek Flats.

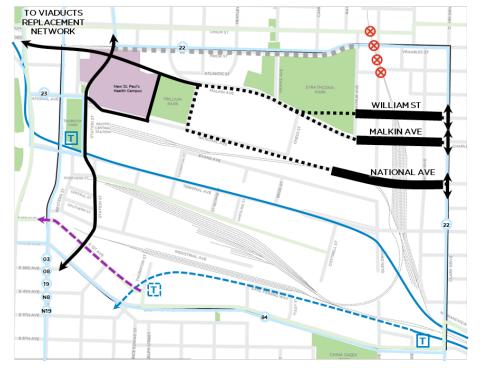






New Streets and Transit





Big Moves

- Gore/Station Street
- Prior/Venables
 Replacement Arterial
- Millennium Line Broadway Extension

Existing Network

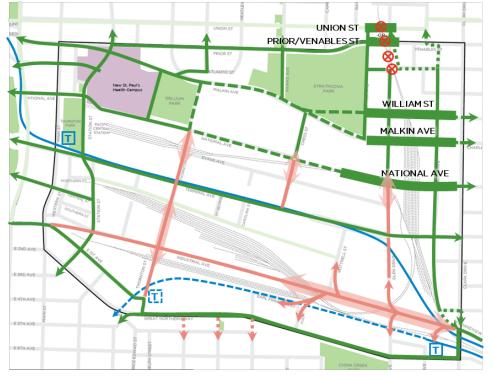
- = Existing street network
- Existing cycling route
- Existing bus routes
- Existing SkyTrain Line
- T Existing SkyTrain Station

Potential Opportunities

- New complete street (all modes, all ages and abilities)
- ■ East-west arterial overpass option *
- 😣 Street closure at rail tracks
- Downgraded arterial to local street
- ••• Millennium Line Broadway Extension
- 🚺 New SkyTrain Station
- ••• Long-term streetcar route

Walking and Cycling





Big Moves

- Expanding the network
- Adanac Bikeway gradeseparation
- Connections across rail

Existing Network

- Existing street network
- Existing cycling route
- Existing bus routes
- Existing SkyTrain Line
- T Existing SkyTrain Station

Potential Opportunities

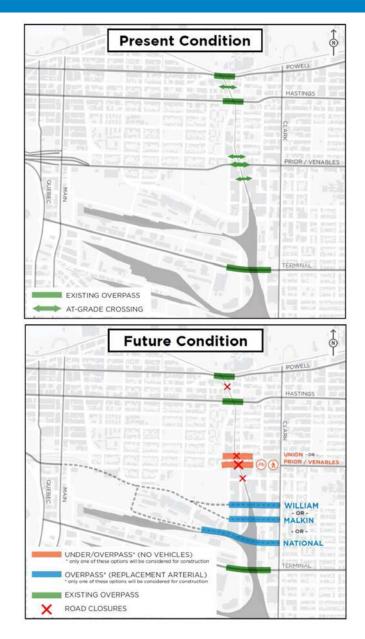
- New/improved walking/cycling route
- New/improved walking/cycling route option*
- New walking/cycling overpass or underpass option*
- Millennium Line Broadway Extension
- 🚺 New SkyTrain Station
- 8 Street closure at rail tracks
- Long-term walking/cycling route
- Long-term walking/cycling route option*
 - Long-term connection over rail

Rail



- Grade-separating the Burrard-Inlet Rail Line
 - Prior/Venables replacement arterial
 - Adanac Bikeway
 - Local street closures





East-West Arterial - Background





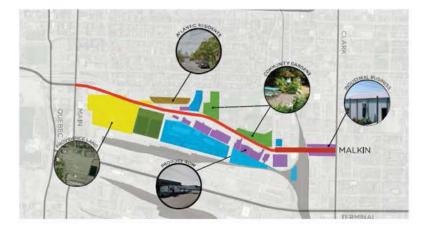
- October 2015 Council directed staff to identify a new alignment to replace Prior/Venables Street
- March 2016 Staff presented two leading alternatives: Malkin Avenue and National Avenue

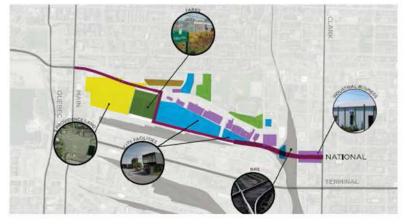
Malkin Avenue Option

- Significant impacts to Cottonwood Gardens
- Significant impacts to Produce Row businesses
- Requires significant investment for impact mitigation

National Avenue Option

- Approx. \$100 M more than Malkin
- Poor transportation performance (goods movement and transit)

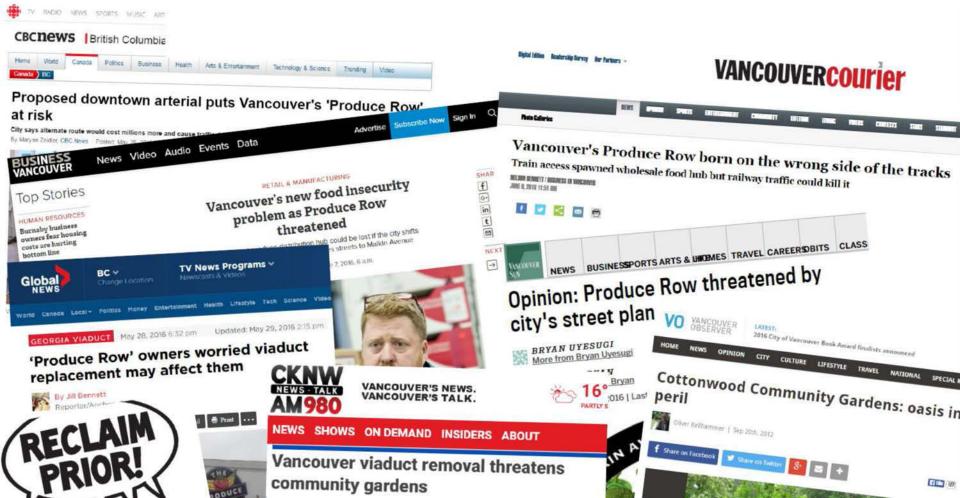




What We Heard



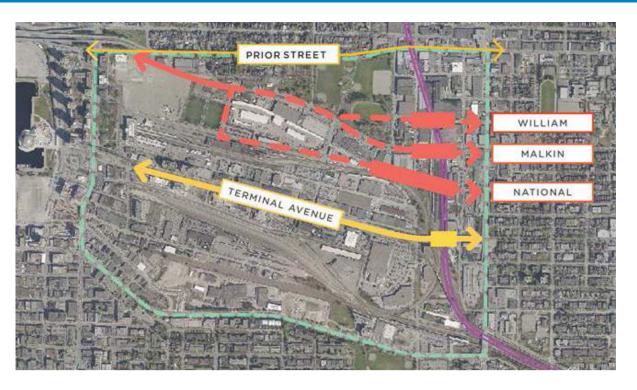
- Following stakeholder workshops, open houses, and an online survey, public feedback was split among the options.
- Numerous stakeholders asked the City to reconsider the William Street option.



Exploring William Street as a potential option



- Further study & engagement to select 1 of 3 alignment options:
 - William Street
 - Malkin Avenue
 - National Avenue



- Engineering developing concepts for William St
- Park Board assessing impacts and mitigation for Strathcona Park
- Two rounds of open houses led by Park Board (TBC June & Sept)
- Report to Park Board & City Council in late 2017







Moving Towards Zero Safety Action Plan

Liliana Quintero, P. Eng Traffic and Data Management



Vancouver Safety Progress

- Transportation 2040: Zero Traffic Related Fatality goal
- Pedestrian Safety Study and Action Plan
- Cycling Safety Study and Action plan
- Creation of Traffic Safety Advisory group





Moving Towards Zero: Action Plan

- 1. Enhanced Data
- 2. Evaluate and Prioritize Locations
- **3. Engineering Action Plan**
- 4. Education & Public Outreach
- 5. Enforcement
- 6. Next Steps



1. Enhanced Data: Current Data Sources

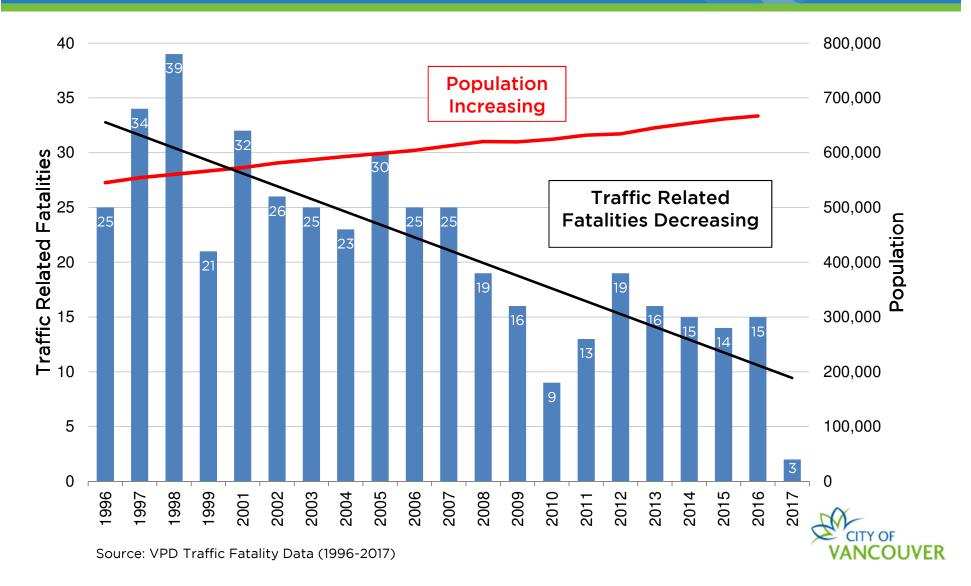
- Transportation Related Fatalities VPD

 Summary reports as they occur
 Annual review
- Collisions involving ICBC
 - Summary reports each year
 - Annual review
 - Serious injury data included since 2014
- Health Injury Data NEW

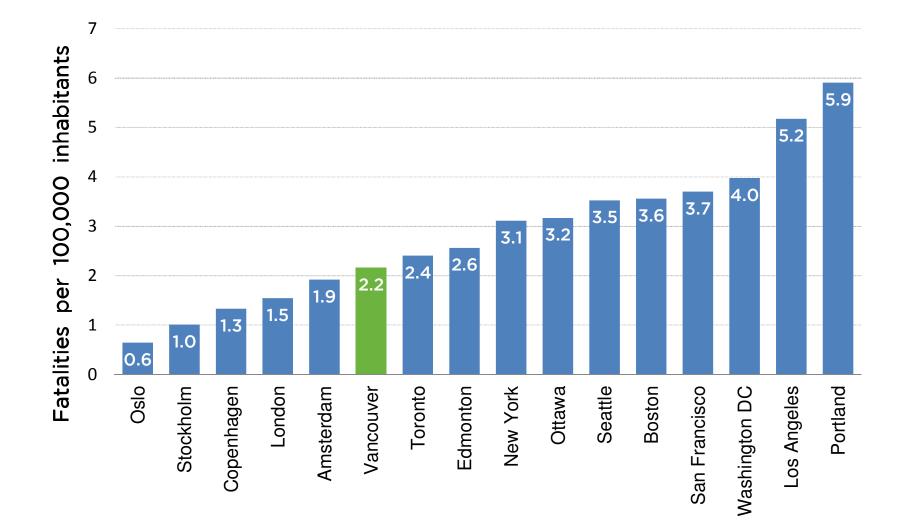
 Hospital data Vancouver Coastal Health
 Ambulance data BC Ambulance



1. Enhanced Data: Transportation-Related Fatalities



Vancouver Compared to Other Cities

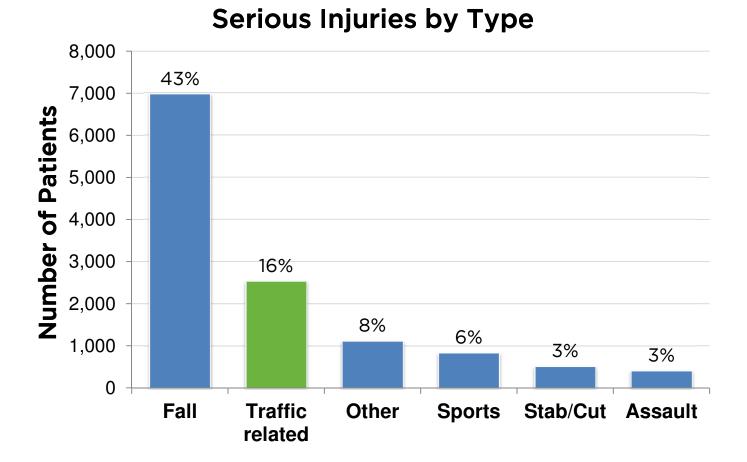




OBJECTIVES:

- Quantify serious injuries
- Understand injury demographics
- Insight on nonmotor vehicle collisions

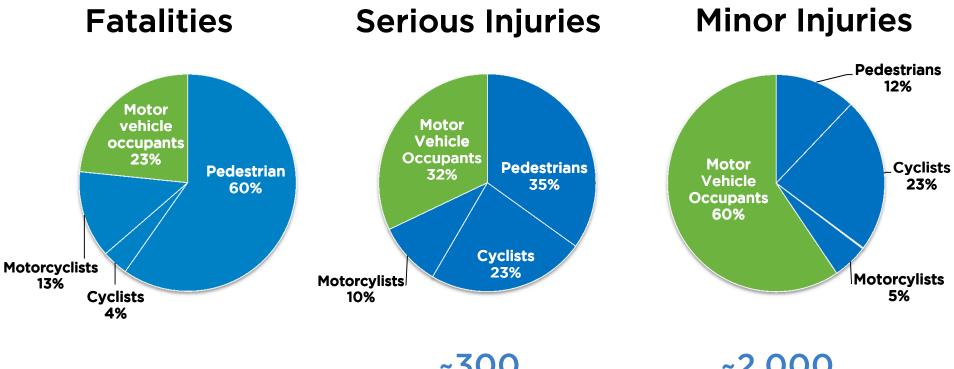




Trafficrelated injuries are the 2nd highest cause of serious injuries arriving at VGH



Source: VGH Injury Data (2011- 2016)

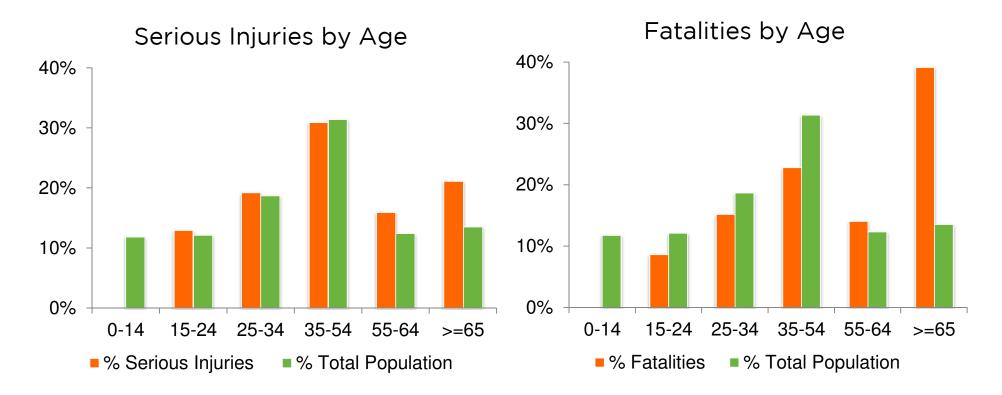


~15 fatalities per year ~300 serious injuries per year ~2,000 minor injuries per year



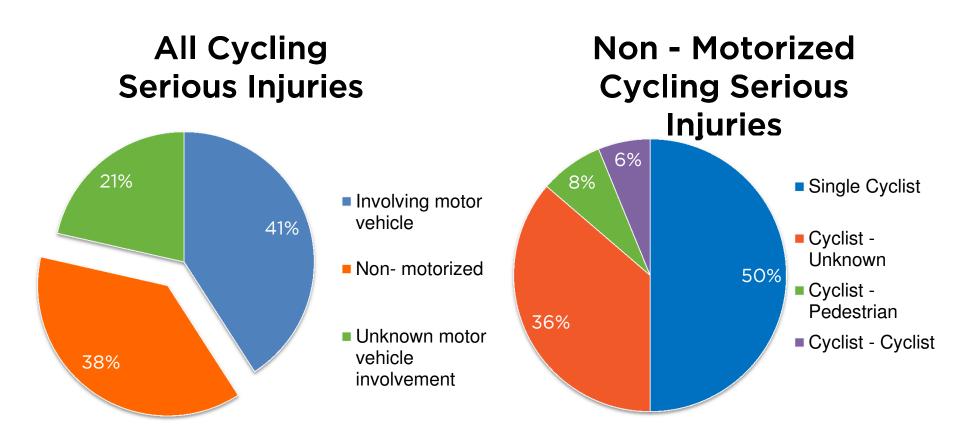
Source: VPD Traffic Fatality Data (2011-16) VGH Hospital Injury Data (2011-16)

Seniors: Higher risk of fatality & serious injuries



Source: VPD Traffic Fatality Data (2011-15), VGH Traffic Injury Data (2011-2015) & Census 2011 Population Data

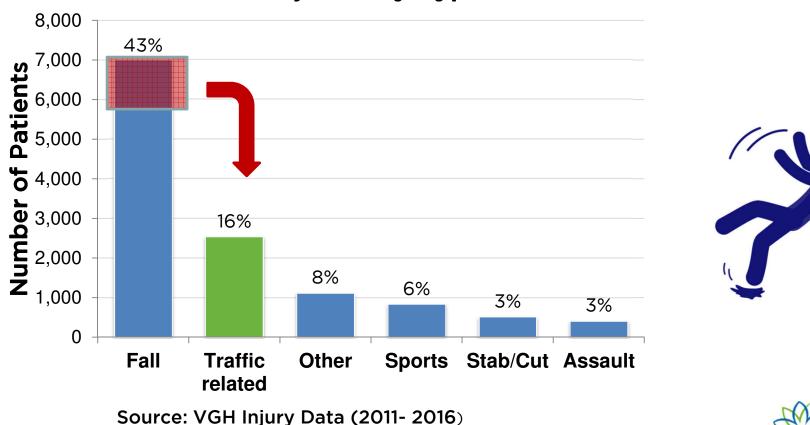




Source: VGH Traffic Injury Data (2011-2015)



1. Enhanced Data: Falls Data



Serious Injuries by Type



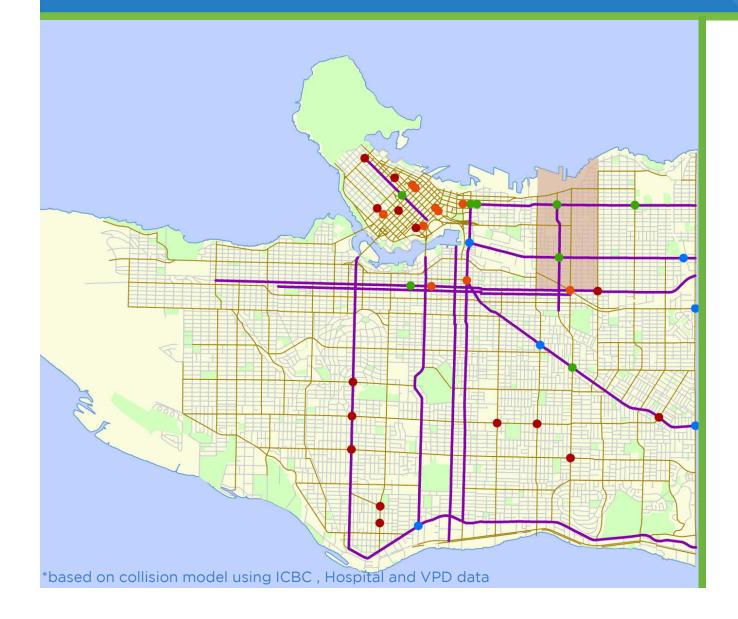
1. Enhanced Data: Ambulance Data



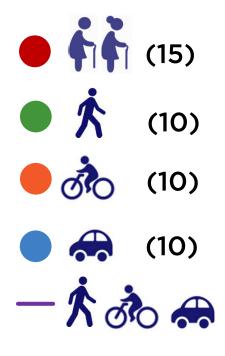
BC Ambulance collects GPS coordinates with patient pick-up and hospital drop-off locations



2. Evaluate & Prioritize Locations



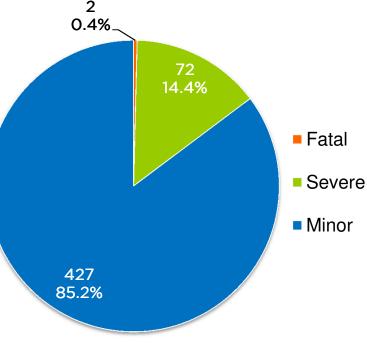
Top Corridors & Intersections for Deep Dive



CITY OF VANCOUVER

2. Evaluate & Prioritize Locations

- Hospital data
 - Most children treated at BCCH
 - No location info
- ICBC data
 - Collisions adjacent to schools & during school days

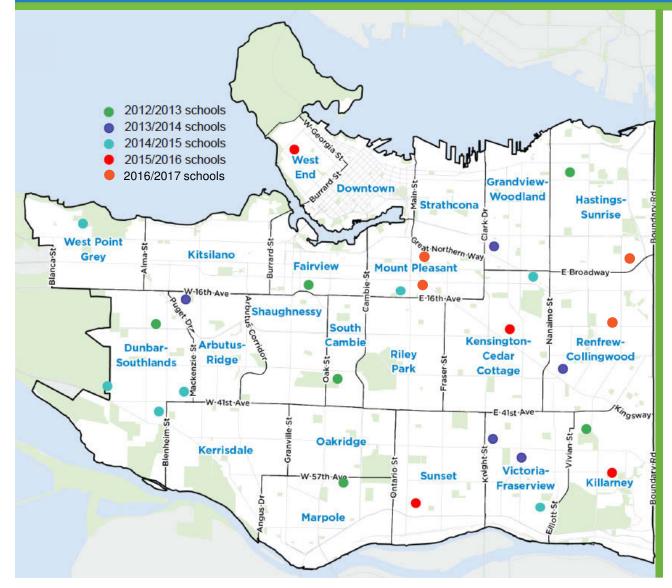


Source: BCCH Traffic Injury Data 2011-13

o ~2% of all City collisions



2. Evaluate & Prioritize Locations: Improved School Safety Programs



- More data focused
- Work with VSB
- Delivery of program in-house
- Accelerate countermeasures to more schools



3. Engineering Action Plan

Develop best safety practices toolkit & select the most effective solutions to address priority locations

- Validate toolkit
- New Pilot Programs
- Develop countermeasure based strategy
- Action plan for high priority areas



Toolkit Validation: Pedestrian Safety Improvements

Validated through Vancouver Implementation

Upgrades	Locations Completed	Collision Reduction	
		Pedestrian	All (Fatal & Injury)
New Pedestrian Signals	2	-96%	-20%
LT Arrows	5	-38%	-26%
LED Lighting	18	-27%*	-46%*
Countdown Timers	33	-28%	-10%
Slower Walking Speeds	4	-12%	

*After dark collisions only



Toolkit Validation: Cycling Spot Improvements

Validated through Vancouver Implementation

Upgrades	Locations Completed	Collision Reduction	
		Cycling	All (Fatal & Injury)
Removal of traffic circles	2	-100%	-60%
Median extension - RT more difficult	1	-42%**	-33%**
Adding lighting	1	-25% *	0%*
Green Paint at Conflict Areas	6	Data not sufficient to assess	

*After dark collisions only ** RT collisions only



Engineering Action Plan: New Pilot Programs



Rectangular Rapid Flashing Beacons **3 locations in pilot**

Accessible Pedestrian Signals 4 locations in pilot

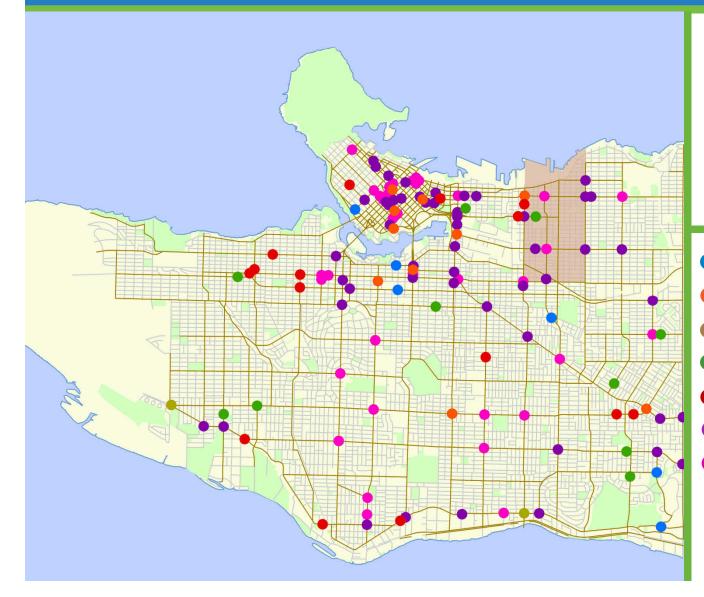




Leading Pedestrian Intervals 1 location in pilot



2. Engineering Action Plan: Countermeasures



By countermeasure

Treat overrepresented types of collisions:

- Left turn
- Right turn
- Driver failure to yield
- Jaywalking
- Collisions after dark
- LPI (6)
- Turning Mov. Changes (12)
- Geom./Signal Changes (2)
- Flashing Beacons (10)
- Signals (15)
- LED Lighting (50)
- Slower Walking Speeds

(60+)



4. Enforcement

- Work with VPD to develop targeted enforcement programs to tackle dangerous behaviors at priority locations
- VPD Commercial Vehicle Team inspections with other municipalities and provincial Commercial Vehicle Safety & Enforcement (CVSE)
- VPD Established Targeted enforcement team to target unsafe and reckless pedestrian and cycling behaviors in high incident areas







5. Education and Public Outreach

- Develop a Zero Traffic-Related Fatalities website
- Report to Council annually on progress
- Conduct Pedestrian Safety Campaign
- Continue to work with Traffic Safety Working Group
- Disability Awareness training for staff



Next Steps

Serious injury data analysis

- Hospital Data
- Ambulance Data

Priority Intersections & Corridors

- Undertake detailed assessments at priority intersections, corridors and focus areas (i.e. seniors)
- Revamp School Program

Engineering Action Plan

Implement quick start action plan

Education & Public Outreach

- Conduct Pedestrian Safety Campaign
- Create Moving Towards Zero website

Report Back to Council Spring 2017



Upcoming Events



- Grandview-Woodland Plan Implementation Two family (Duplex) Zones
 - May 13 (Saturday) 12-3pm @ Wise Hall
 - May 17 (Wednesday) 5-8pm @ Wise Hall

Britannia Renewal Events

- May 23 (Tuesday) Designing Safe Places, 6:30-8:00pm
- June 4 (Sunday) Physical Wellbeing & Community Wellbeing 12-2pm

• New St. Pauls \ Health Campus - Draft Policy Open Houses

- May 13 (Saturday) 3 6pm @ Creekside Community Centre
- May 15 (Monday) 5-8pm @ Strathcona Community Centre

Closing



Next Steps

- Meeting minutes to be circulated next week; materials online mid-May
- Next Meeting: September 2017 (date TBD)

- **Reminder** please report back to your respective organizations and share information broadly within networks
- SAG Coordinator: <u>hailey.steiger-tang@vancouver.ca</u> 604-873-7742

Questions? Comments?



