

Introduction



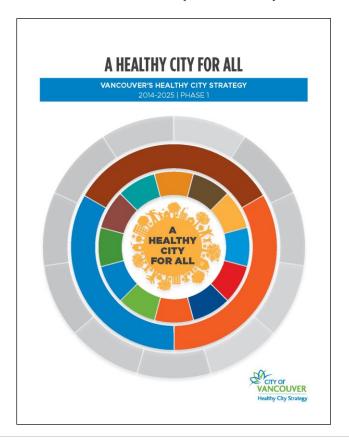
- Healthy policy context
- What does it mean?
- Opportunity: Panel survey & health
- Adaptations to the Panel Survey



Policy Context



Healthy City Strategy 2014-2025 - Phase 1 (HCS)



CHALLENGES:

- Growing and aging population number of seniors expected to double by 2036 BC Statistics, 2012
- 21% of households have low income and growing income disparities Statistics Canada, 2010
- 35% of kindergarten children are vulnerable in Vancouver UBC Human Early Learning Partnership Early Development Instrument, 2011-13
- Health inequities avoidable inequalities in health between groups of people Health Officers Council of BC, 2008





Policy Context



Healthy City Strategy 2014-2025 - Phase 1 (HCS)

- Health a big part of the Vancouver "brand"
- Hope HCS will enable longer-term healthrelated decision making and resource allocation
- Active transportation figures prominently



Sustainability = Environmental + Social + Economic

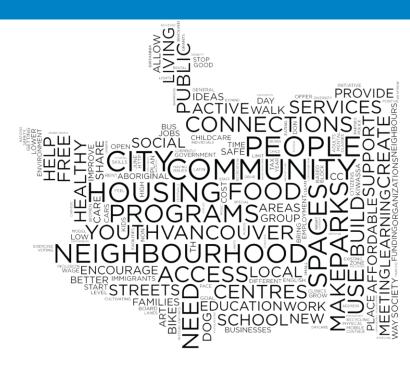


Policy Context



HCS Key Themes

- Integrated understanding of wellbeing
- "Upstream-oriented" i.e. preventative, **target root causes**
- A concrete set of targets
- Active transportation figures prominently
- The "well-being for all" lens a big support for the City's "AAA" cycling initiatives
- HCS is driving partnerships
 - Regular 30-member "leadership table" meeting in parallel with internal "tech team", involving education reps, health reps, non-profit, advocacy groups, etc.
- HCS Action Plan going before council in the spring
 - 20-25 actions that involve all major City departments



What Does it Mean?



Health-related initiatives led by the Active Transportation Branch:

- Hosting Pro Walk Pro Bike Pro Place 2016
 - Considerable involvement from health sector (1st time)
 - Vancouver Coastal Health and BC Ministry of Health on host committee and co-funding with City
- Corridor-scale before/after studies evaluating health impacts of AT projects
- City-wide safety review of collision data and hospital injury reports (on-going cycling and pedestrian safety studies)
- System for collecting "demographic-based" pedestrian and cyclist volumes to monitor impacts on different population segments
- Video-based automated conflict analysis tools
- On-going city-wide assessment of the well-being of our citizens



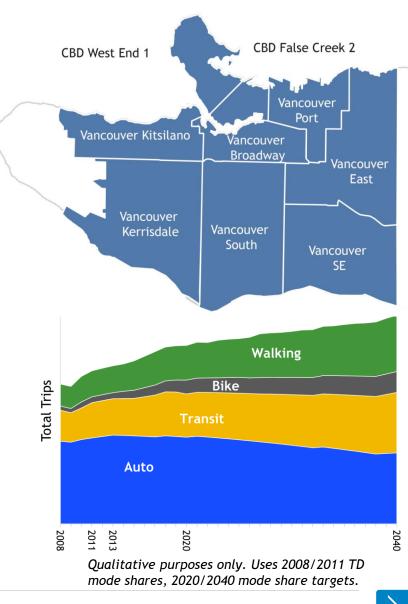




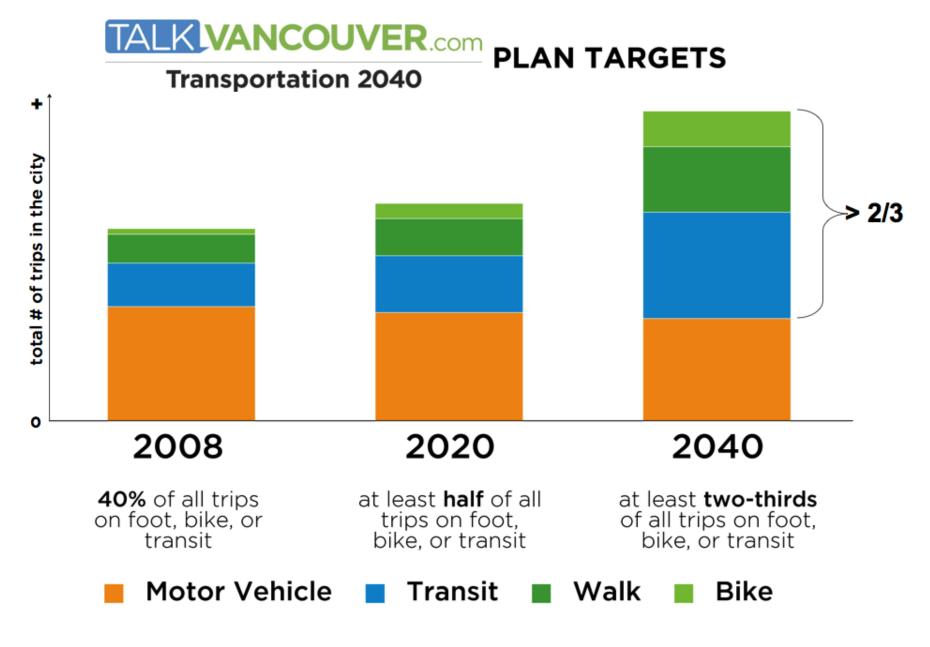


Opportunity: Annual Trip Diary Panel Survey

- Started in 2013
- 0.5% sample (15+ years)
- Primary goals:
 - Estimate mode share for each zone
 - 2. Estimate VKT for the city
 - 3. Track trends on a more frequent basis to inform investments (other sources every 5 years and delayed 2 years)



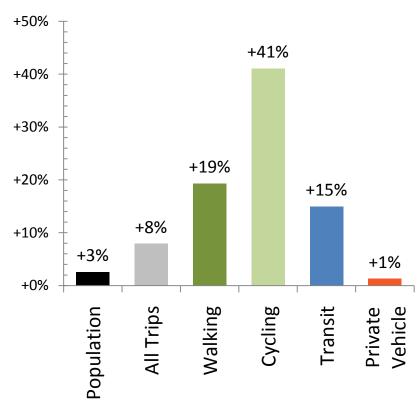






Growth Rate by Transportation Mode

Percentage Change in Estimated Daily Trips Originating in City of Vancouver, 2008-2011



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Opportunity: Annual Trip Diary Panel Survey

- Trip diary for a randomly assigned weekday (similar to trip diary)
- Statement of usual mode of travel to work (similar to census)
- Demographic questions to help expand the sample
- Questions related to travel behaviour and likelihood of using sustainable modes
- Vehicle odometer readings to inform VKT estimate





Opportunity: Annual Trip Diary Panel Survey

- 2014 iteration window to capture health impacts of travel behaviour.
- Few examples of trip diaries that include health impacts
- Given significant respondent burden changes constrained.
- Consulted Vancouver Coastal Health & local researchers
- Ensured language and demographic consistency with existing trip diary and health-related surveys

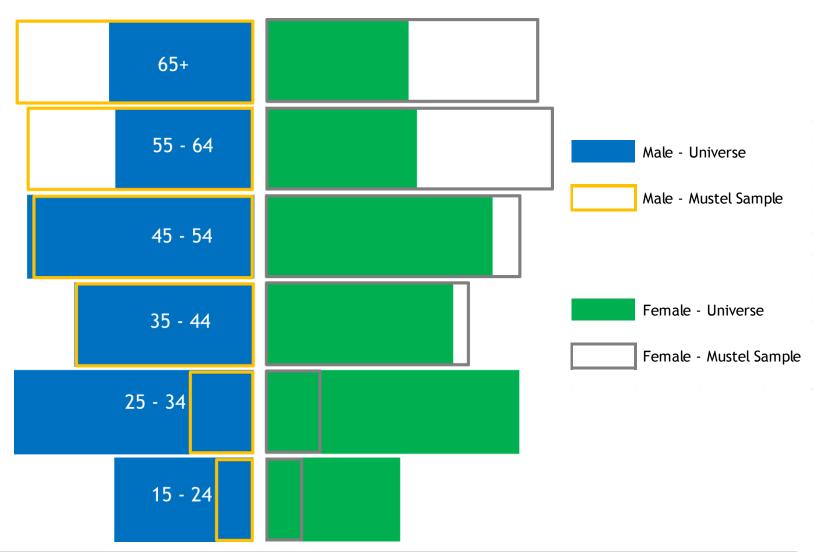








Age and Gender Comparison (Unweighted Sample vs. Universe)





HCS Targets

- By 2020, make the majority (over 50%) of trips on foot, bike, and transit
- By 2025, increase
 Vancouver residents' sense
 of belonging by 10%
- By 2025, increase the percentage of Vancouver residents aged 18 and older who meet the Canadian Physical Activity Guidelines by 25% over 2014 levels







4 health-related changes proposed for 2014 Trip Diary Panel Survey:

- Include recreational trips (those with the same origin and destination)
- 2. Self-reported general health assessment
- 3. Friendly interaction during travel
- 4. Cycling market research



1. Allow the survey to also record recreational trips (those with same O/D pair)

- Allows more complete picture of how travel contributes to recommended physical activity.
- Requires also reporting estimated trip travel time.
- Preliminary results suggest added 40% of trips

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 Temporal mismatch - daily travel vs. weekly guideline (still missing weekend travel)





2. General health assessment

In general, would you say that your health is...

- Excellent
- Very good
- Good
- Fair
- Poor
- "The little question that could."
- Simple but well-established correlation with overall mortality risk
- Enables comparison with other on-going surveys (one national)

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Friendly Interaction

Aside from any travelling companion(s) that may have been with you, did you engage in friendly interaction with anyone else while travelling to your destination? (e.g. with a neighbour, friend, transit rider, driver, or stranger)

- o Yes
- o No
- Insight on social inclusion (and quality of life)
- Add to trip-related questions
- Link responses to the characteristics of specific trips
- Based on pilot survey responses, we may see
 ~25% of trips with positive responses.

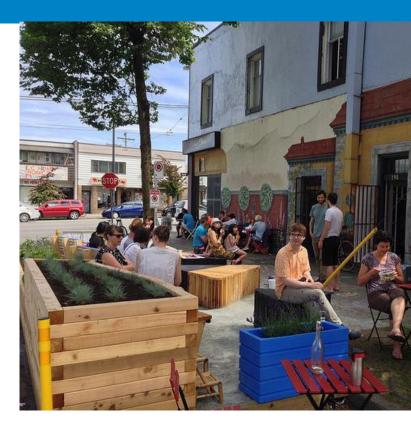




Also considered:

I think my community is a good place for me to live

- Strongly agree
- o Agree
- 0 ...
- Found to be reliable and valid across range of countries, demographics, & cultures



- Used with communities (place and interest) and significant at both individual and community scales
- Research has established a \$ measure of the benefit of moving up the scale



Also considered:

Which of the following factors discourage you from walking for more of your day-to-day needs in your home neighbourhood?

- □ Nothing, I walk as much as I like to
- ☐ I often need to transport kids / family / heavy loads
- ☐ Sidewalks are too narrow or missing
- **...**

For walk trips...

Did you generally feel comfortable and safe walking to this destination?

- ☐ Yes
- ☐ No, there was too much traffic
- No, I was uneasy about the threat of crime
- **...**

For short non-walk trips...

Why did you choose not to walk to this destination (check all that apply)?

- ☐ The route is missing some sidewalks
- ☐ The destination was too far
- ☐ I was unsure of how to get there by walking
- **...**























4. Market Research

- On-going AT Promotion and Enabling Plan
- Promotion potentially a key action of HCS.
- A significant effort underway to characterize the cycling and walking markets, through a variety of survey instruments:
- Talk Vancouver Walk
- Talk Vancouver Cycle
- Market Study by Sentis
 - Walk and Cycle Survey (Motivations and Barriers) − likely to be conducted in June
 - → Baseline data Likely the Fall now
 - ✓ Identify target audiences Fall

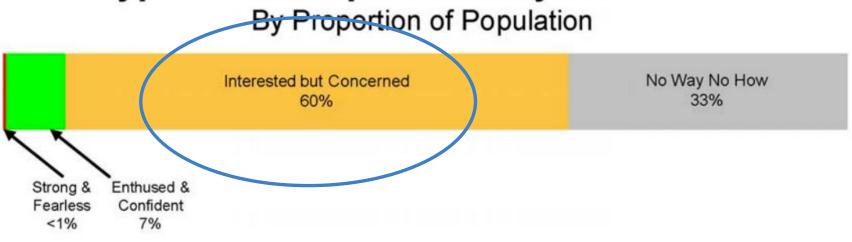








Four Types of Transportation Cyclists in Portland



A Regional Cycling Strategy for Metro Vancouver

June 2011



REGULAR CYCLIST

25%

INTERESTED BUT CONCERNED

41%

NOT INTERESTED

34%



1. Frequency

Which of the following best describes you?

- When I ride a bicycle, I most often chose to ride only in fair weather and avoid rain or cold
- When I ride a bicycle, I ride year round regardless of rainy or cold weather
- I am physically not able to ride a bicycle
- I never ride a bicycle

How often do you typically travel on bicycle?

- At least twice per week
- Once per week to once per month
- Less than once per month
- I never ride a bicycle





2. Interest

Regarding bicycling, would you say that...

- you want to travel by bike more than you do now
- o you are happy with how much you currently bike
- o you have no interest in bicycling







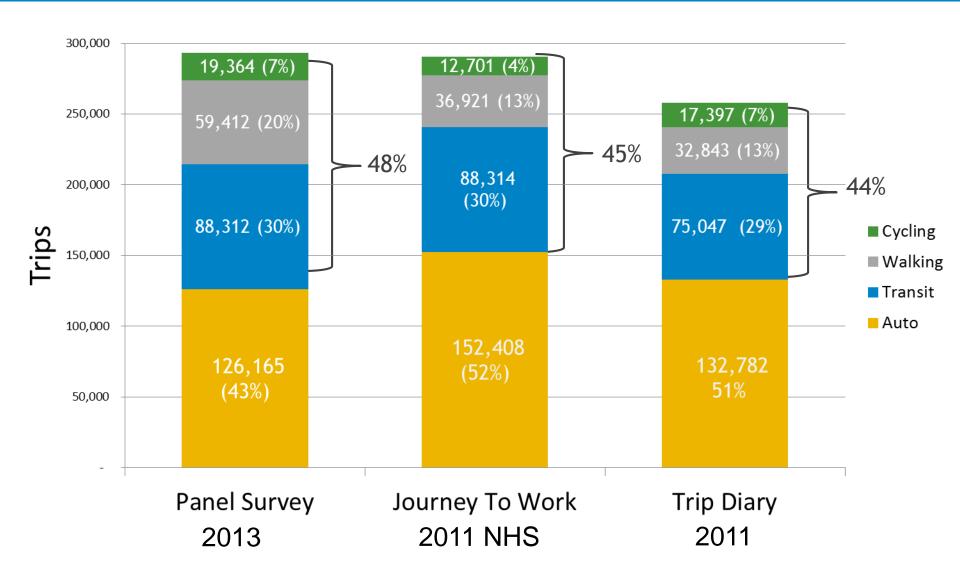
	Interest:				Agree			No			No interest in cycling					
							Frequency:	Regular	Occasional	l Never	Regular	Occasiona	l Never	Regular	Occasiona	l Never
Environment						V	Any street regardless of traffic	SF	SF	SF	SF	SF	SF	Х	х	NWNH
					Any street regardless of traffic	V	Major streets w painted bike lanes	EC	EC	EC	EC	EC	IC	Х	х	NWNH
			Any street regardless of traffic		Major streets w painted bike lanes	V	Major streets with SBL	EC	IC	IC	EC	IC	NWNH	X	х	NWNH
	Any street regardless of traffic		Major streets w painted bike lanes		Major streets with SBL	V	Local streets w little traffic and low speeds	EC	IC	IC	EC	IC	NWNH	X	х	NWNH
	Any street regardless of traffic		Major streets w painted bike lanes		Major streets with SBL	V	Off-street paths away from MVs	IC	IC	IC	IC	IC	NWNH	X	х	NWNH
						V	Not comfortable cycling anywhere.	Х	IC	IC	Х	NWNH	NWNH	Х	х	NWNH
						V	Physically not able to ride a bike.	Х	х	NWNH	Х	х	NWNH	X	х	NWNH

Thank you!

Questions?

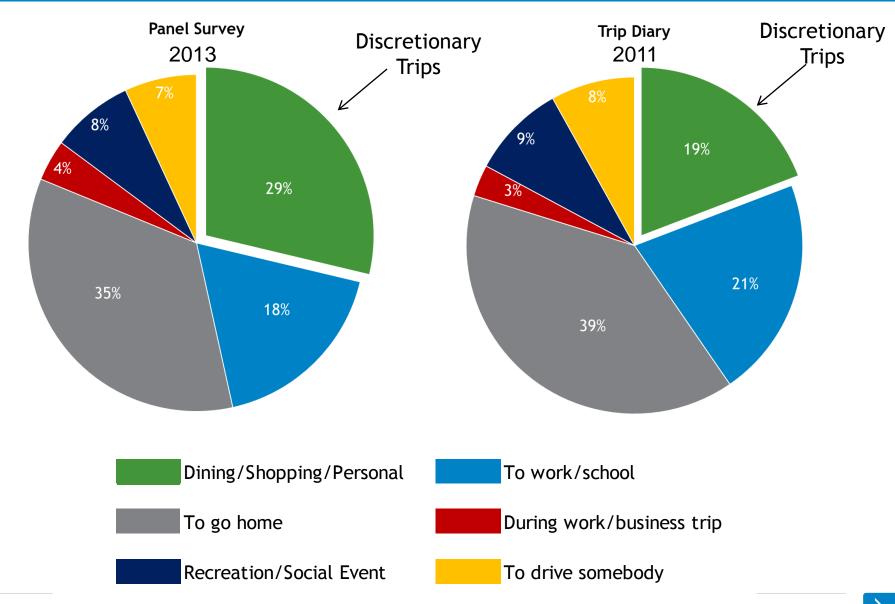
Validation - Comparison with Trip Diary and Journey to Work





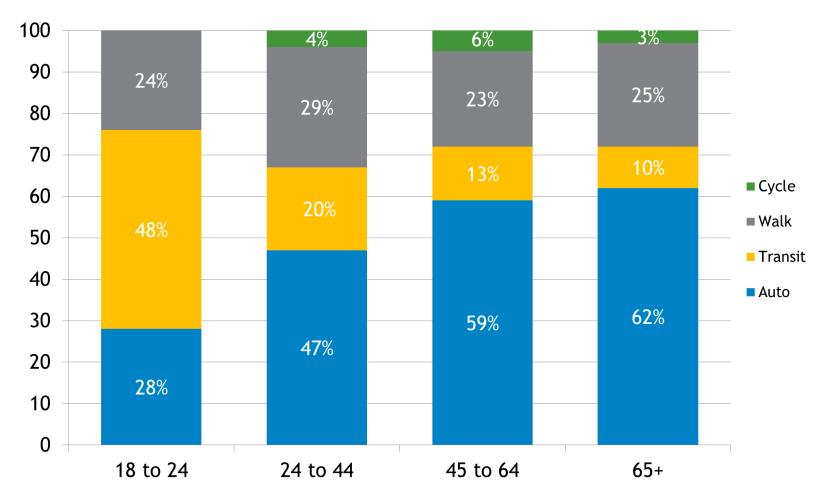
Results - Trip Purposes





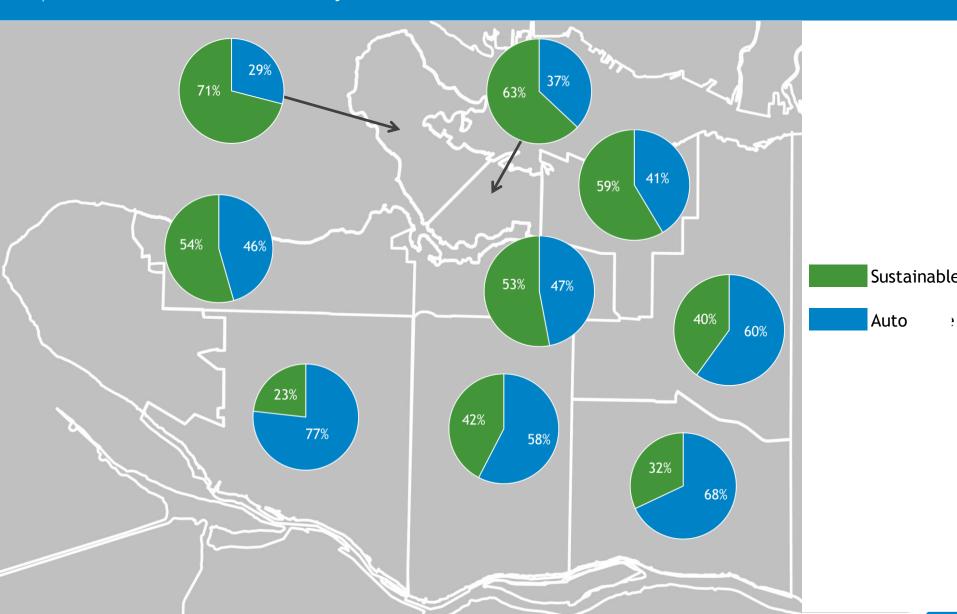


Mode Share by Age Distribution 2013 Panel Survey



Results - Mode Share by Zone





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Results - Trend in Sustainable Mode Share



Trends in Sustainable Mode Share from Trip Diary and Panel Survey - High and Low Ranges

