



# WALK CNV



City of North Vancouver Pedestrian Plan

Lionsview Seniors Planning Society  
**18th April 2017**

# Agenda

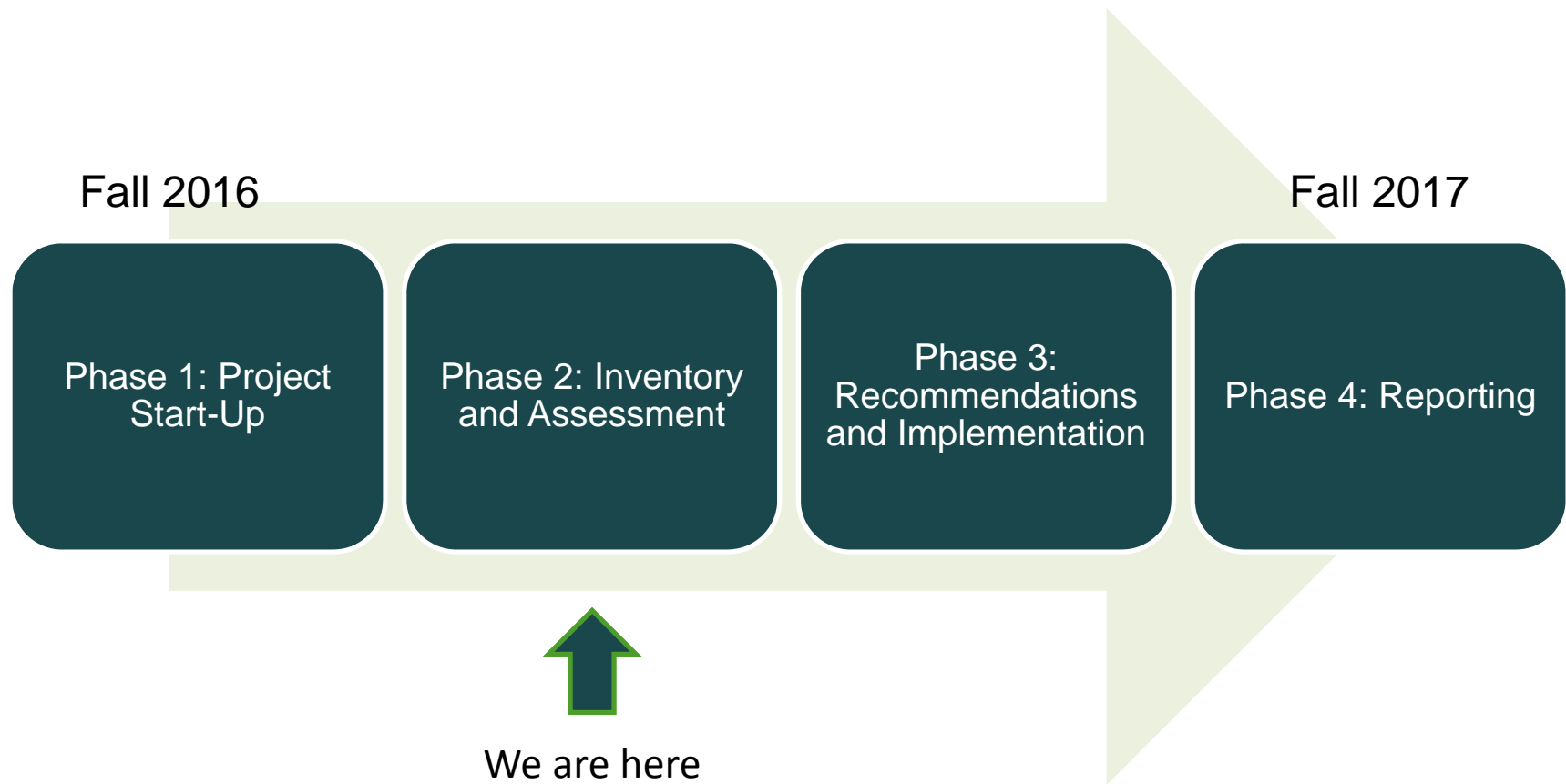
- Project Process
- Walking in North Vancouver Today – Background research
- What we've heard so far.
- Discussion
  - What would you like to see in the Plan?

# Introductions

- What do you like most about walking in the City of North Vancouver?



# Project Process



# What Will Be Included In The Plan

Updated Sidewalk Assessment

An Understanding of Walking  
Patterns and Behaviours in the  
City of North Vancouver

Goals, Objectives and  
Principles

Review of Pedestrian Areas

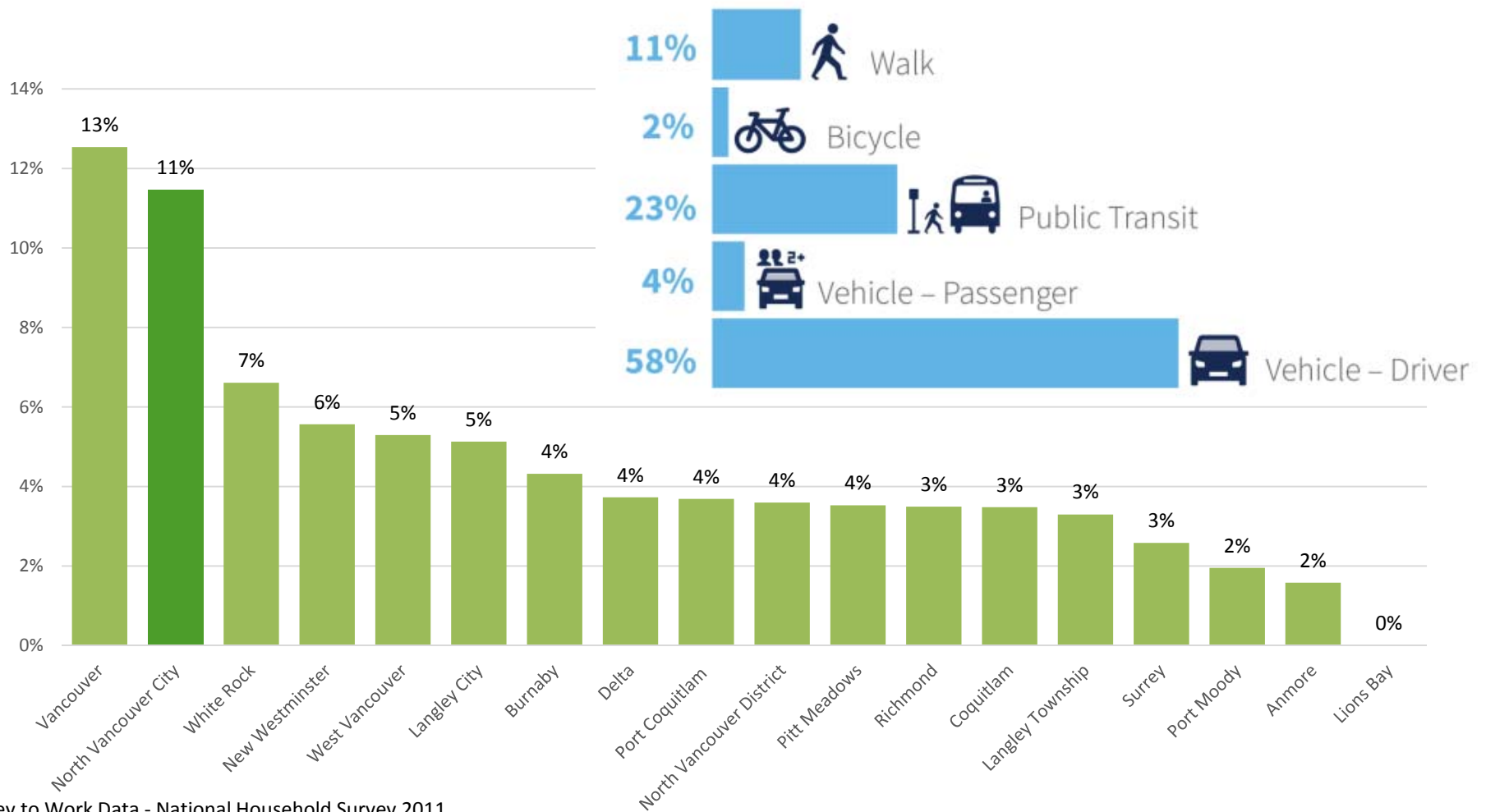


Pedestrian Plan

Pedestrian Network Map  
Infrastructure Implementation Strategy  
Walking Promotion Strategy

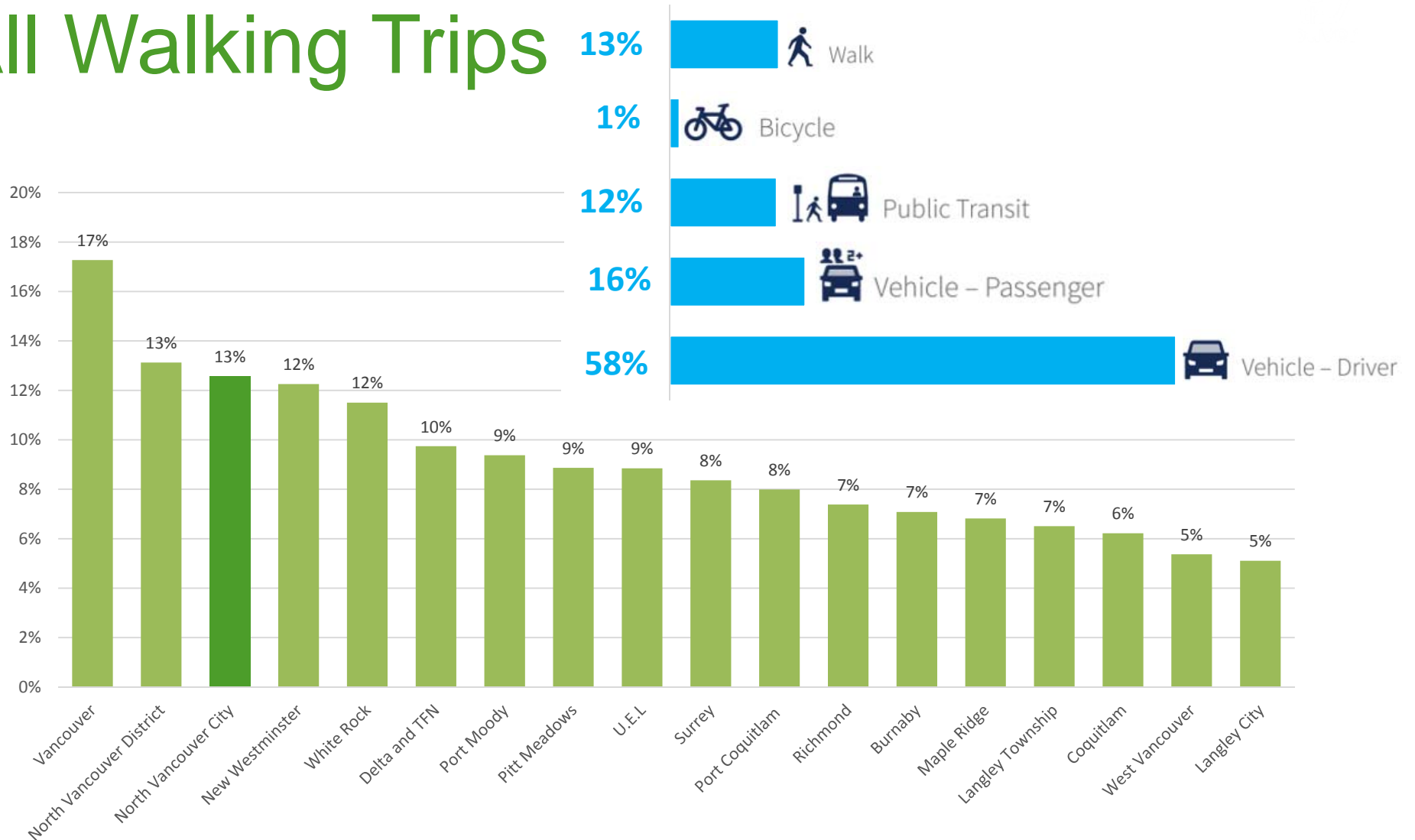


# Walking Trips to/from Work



Journey to Work Data - National Household Survey 2011

# All Walking Trips



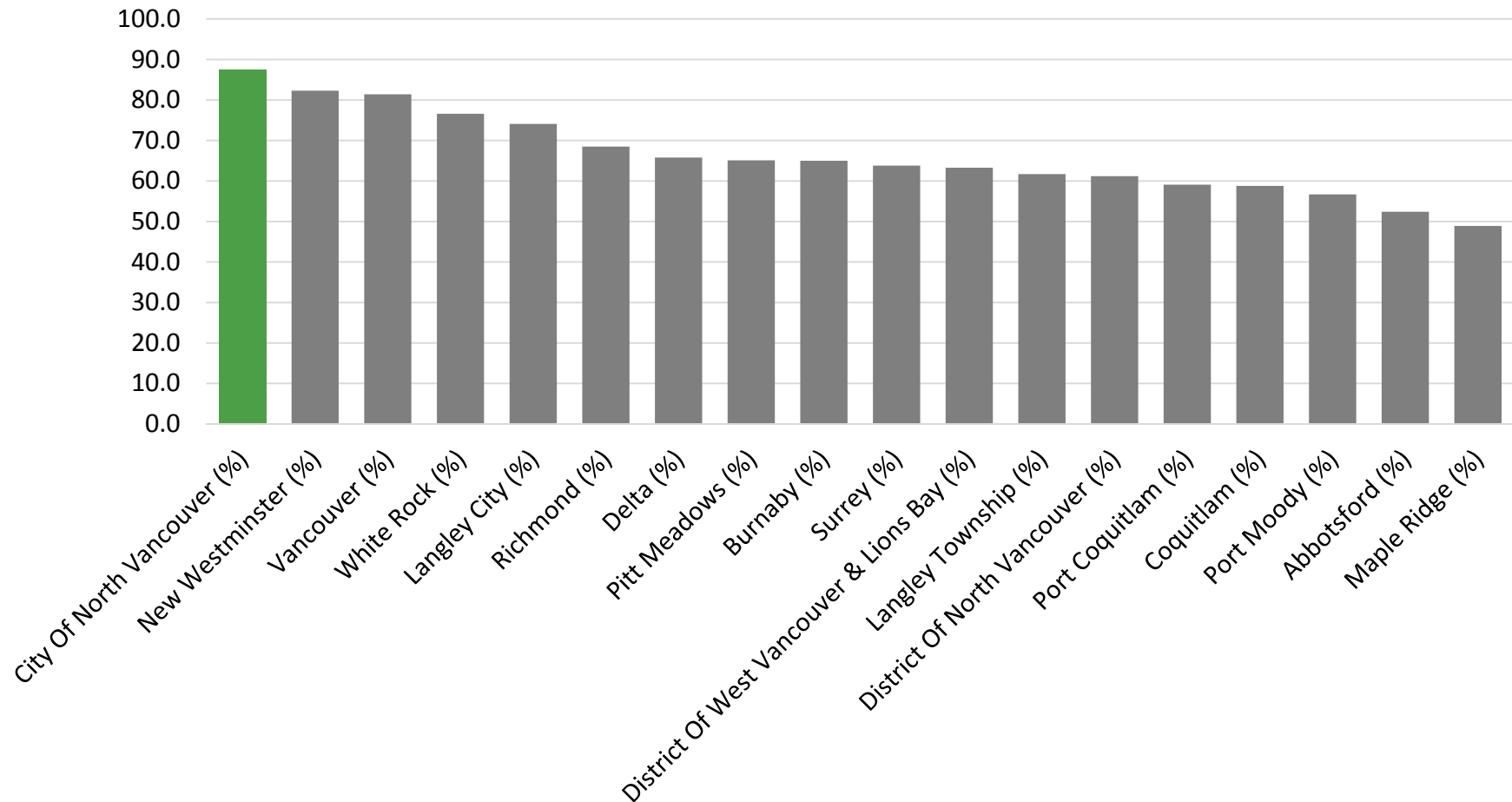
TransLink Regional Trip Diary 2011

# My Health My Community

- **87.4%** of respondents believe amenities are within walking/cycling distance
- **39.1%** of respondents walk for **recreation** 30+ minutes a day
- **39.1%** of respondents walk for **utilitarian** purposes 30+ minutes a day
- **72.2%** of respondents walk for more than **30+ minutes a day total**
- **23.7%** of North Vancouver Respondents say **traffic in the area makes walking difficult**

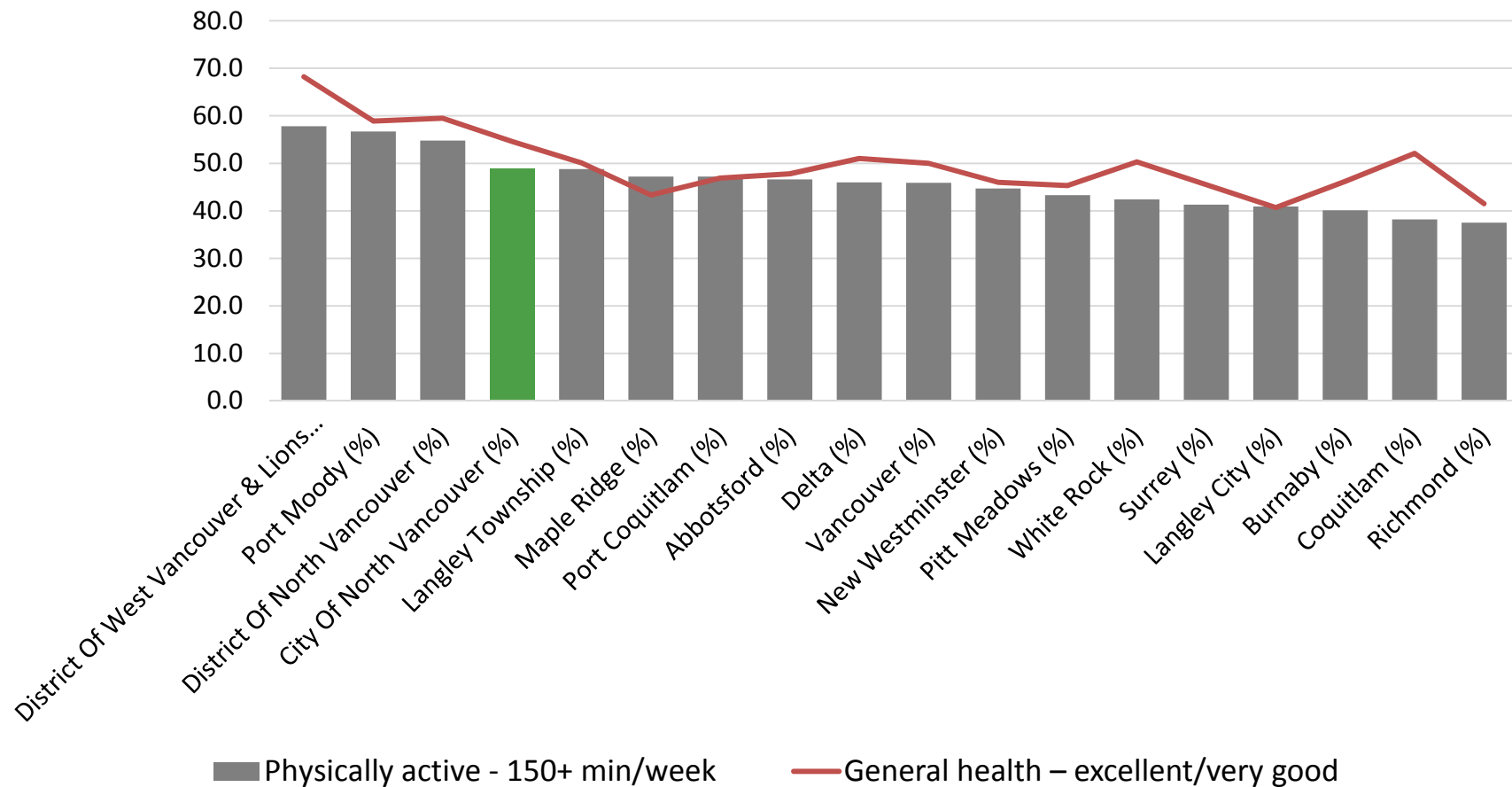


# Amenities within walking distance



My Health, My Community – Vancouver Coastal Health, Fraser Health, UBC Faculty of Medicine

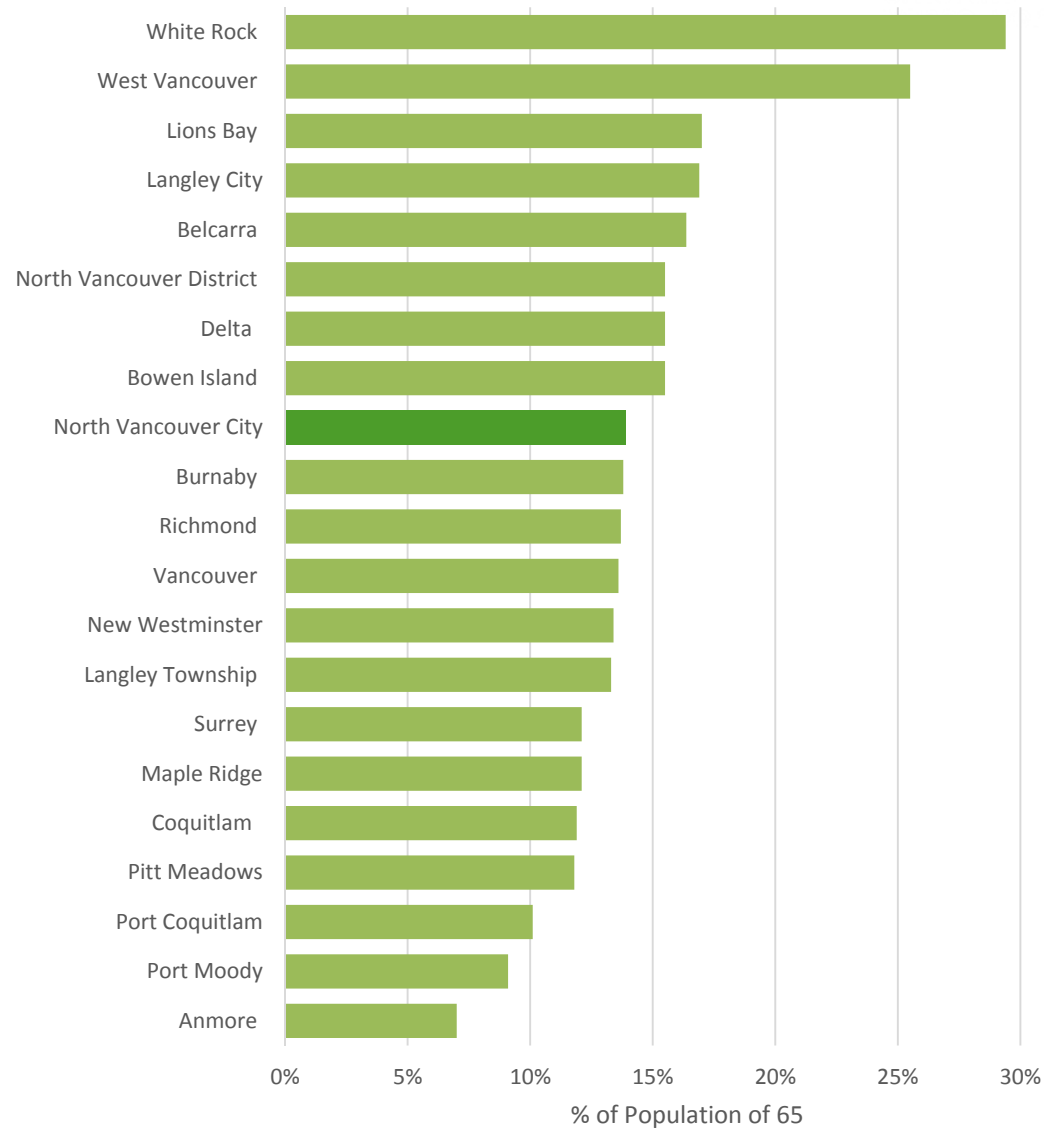
# My Health My Community



My Health, My Community – Vancouver Coastal Health, Fraser Health, UBC Faculty of Medicine

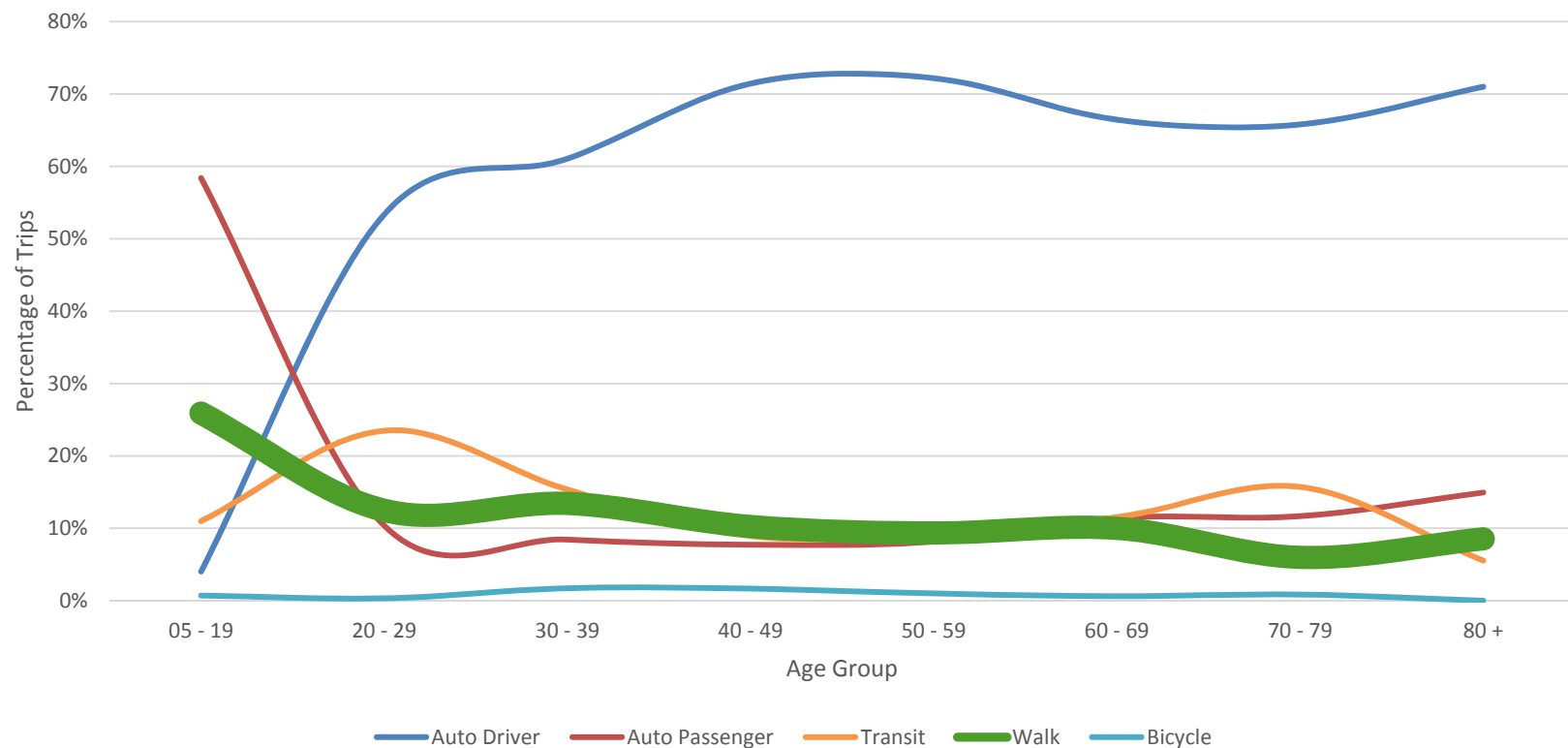
# Demographics

- Approximately 14% of the City of North Vancouver's population is **over 65 years of age**
- Approximately 18% of the City of North Vancouver's population is **under the age of 19**



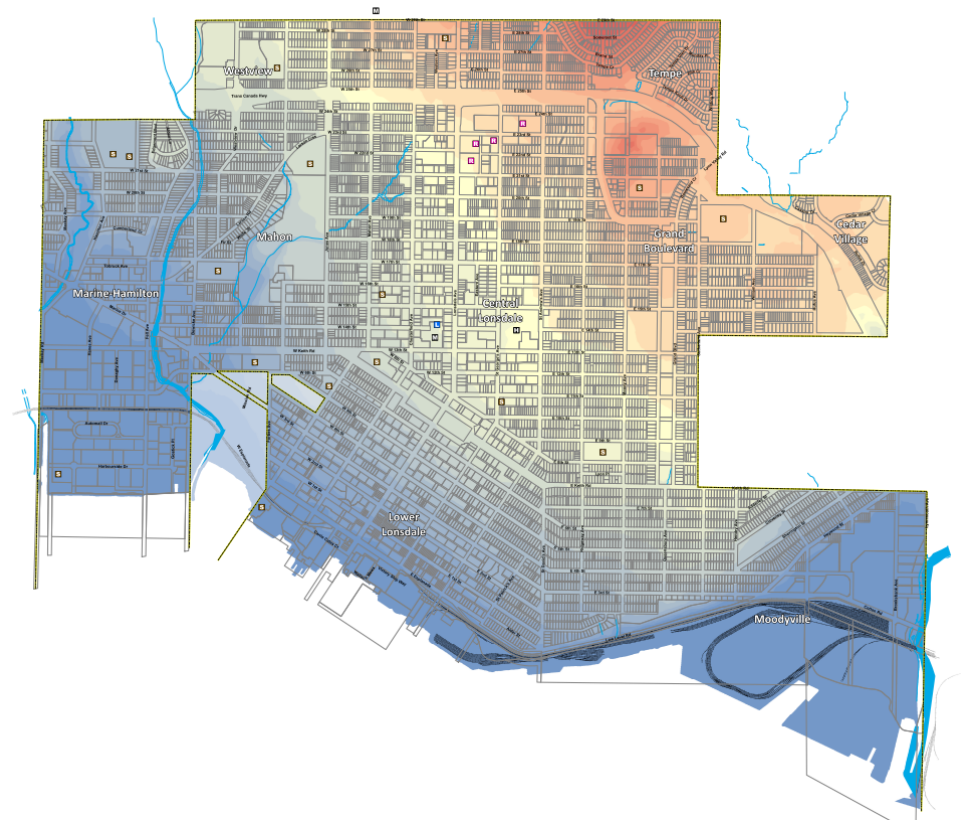
# Mode Share by Age Group

- Walking trips are highest among individuals between the age of 5 to 19 and between 30-39



# Barriers to Walking in North Vancouver

- What do you like least about walking in the City of North Vancouver?



# Public Consultation

**We have already heard directly from hundreds of CNV residents including:**

- ITC, ACDI, APC and CYSAT
- Meeting with **Sutherland High School** students
- Direct engagement with **residents and stakeholders** at **2 pop up booths**
  - Lonsdale Quay
  - Civic Plaza
- **365 on-line survey** responses
- **3 Saturday walkabouts**





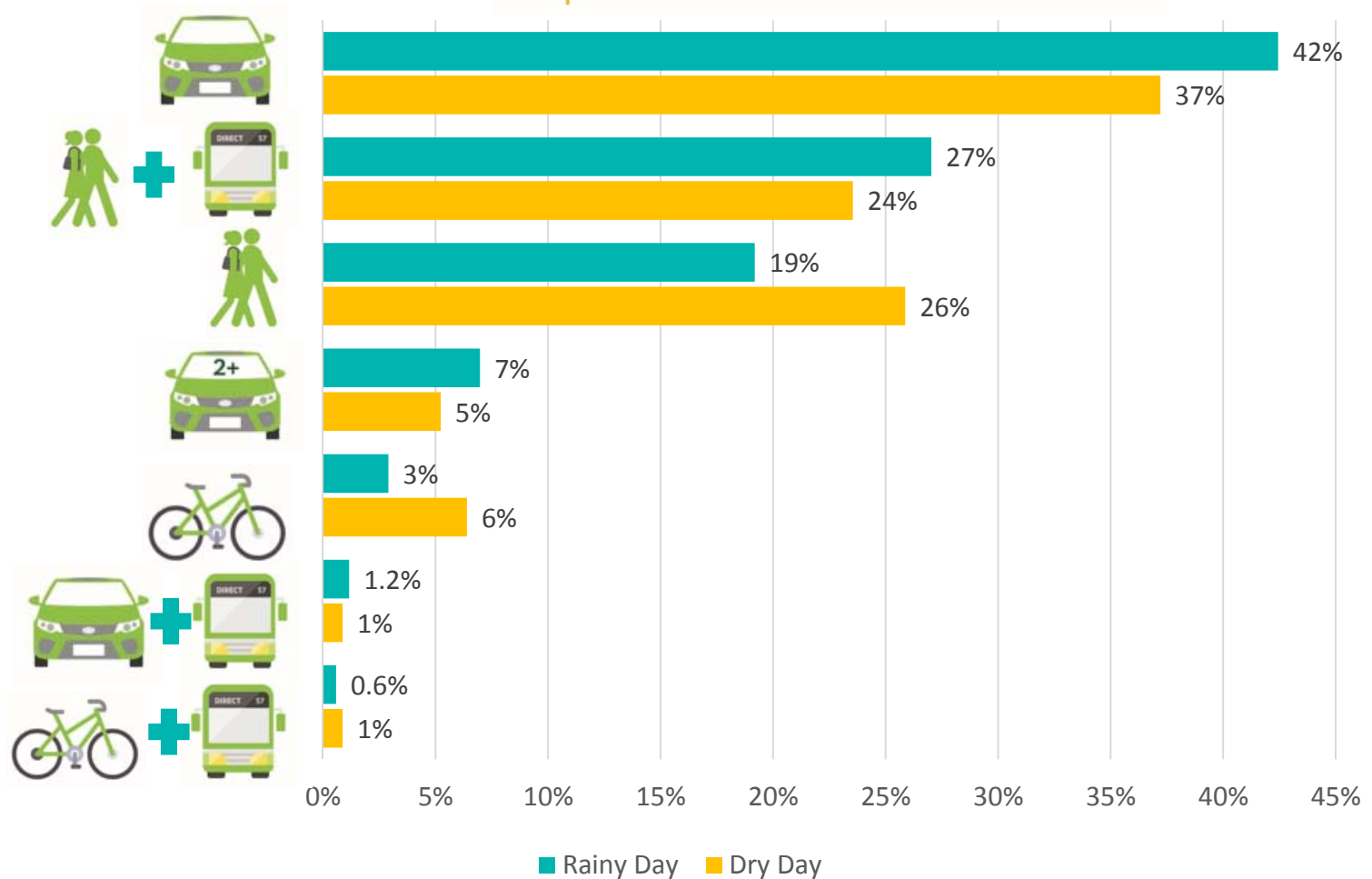




# Typical Mode



Sunny/Mild vs. Cold/Rainy



# Priorities For Walking



HEALTH



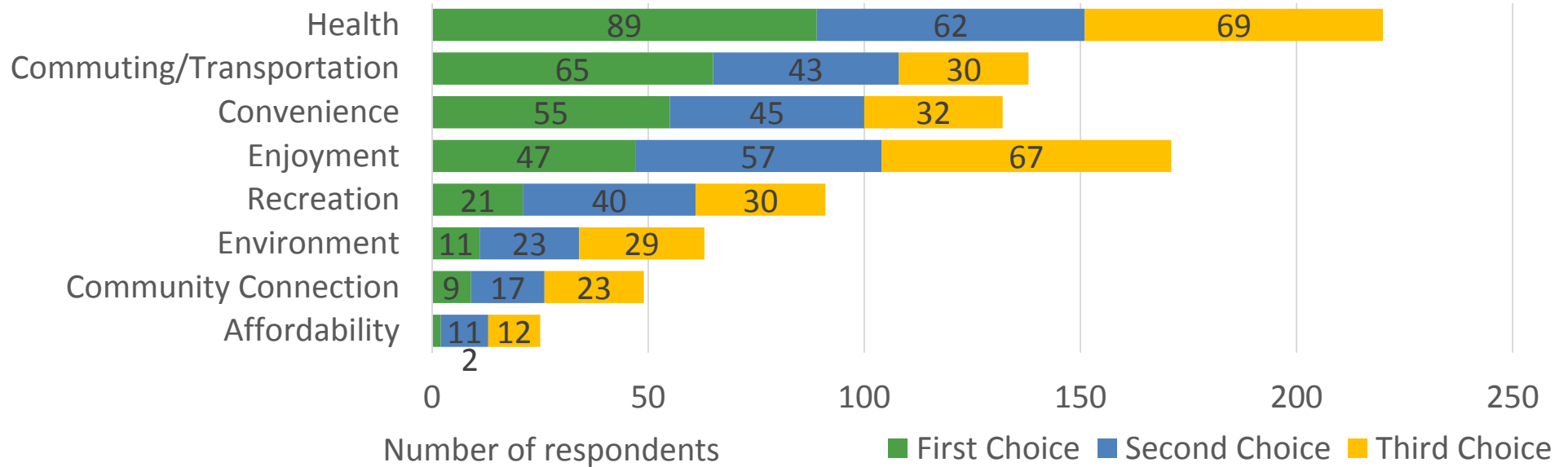
COMMUTING



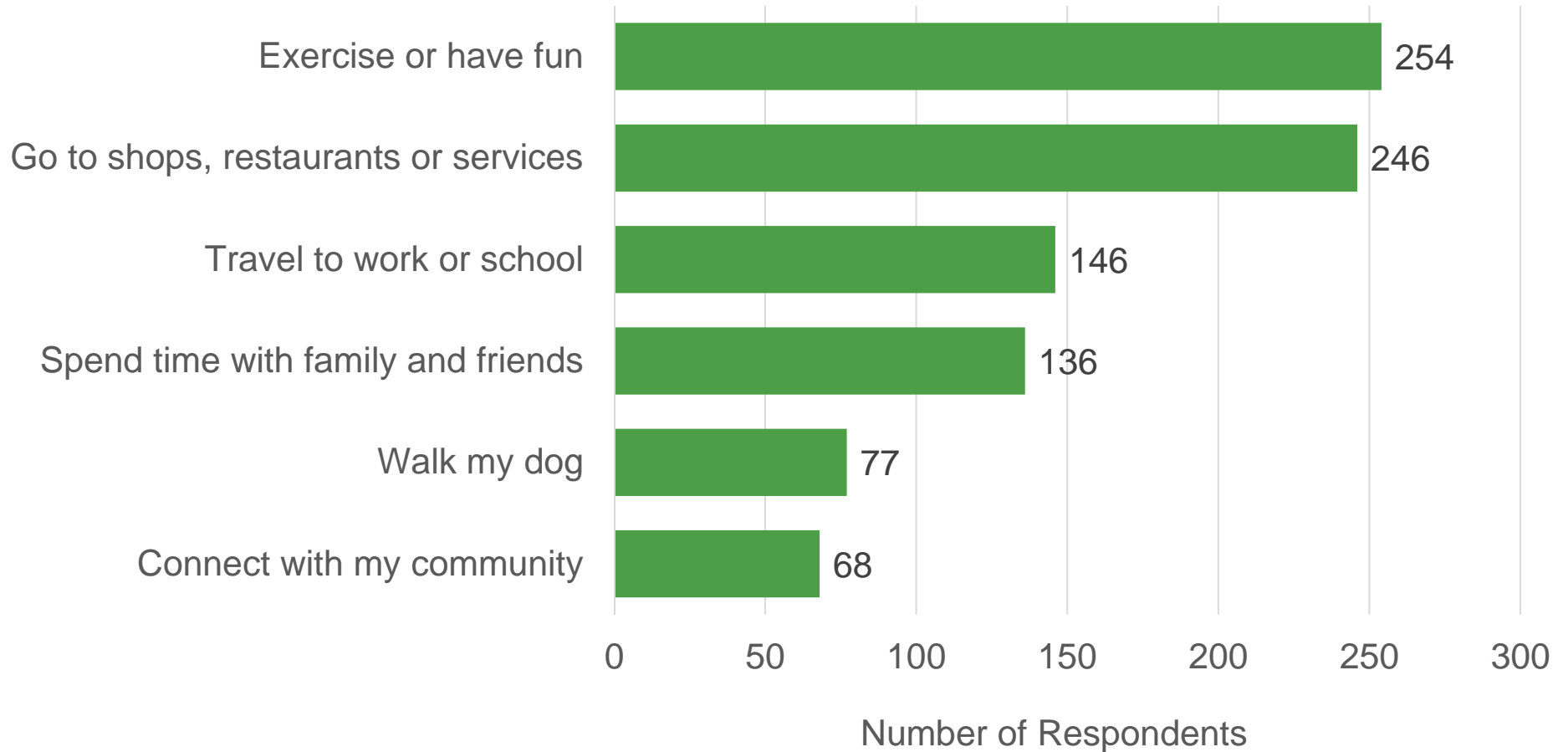
CONVENIENCE



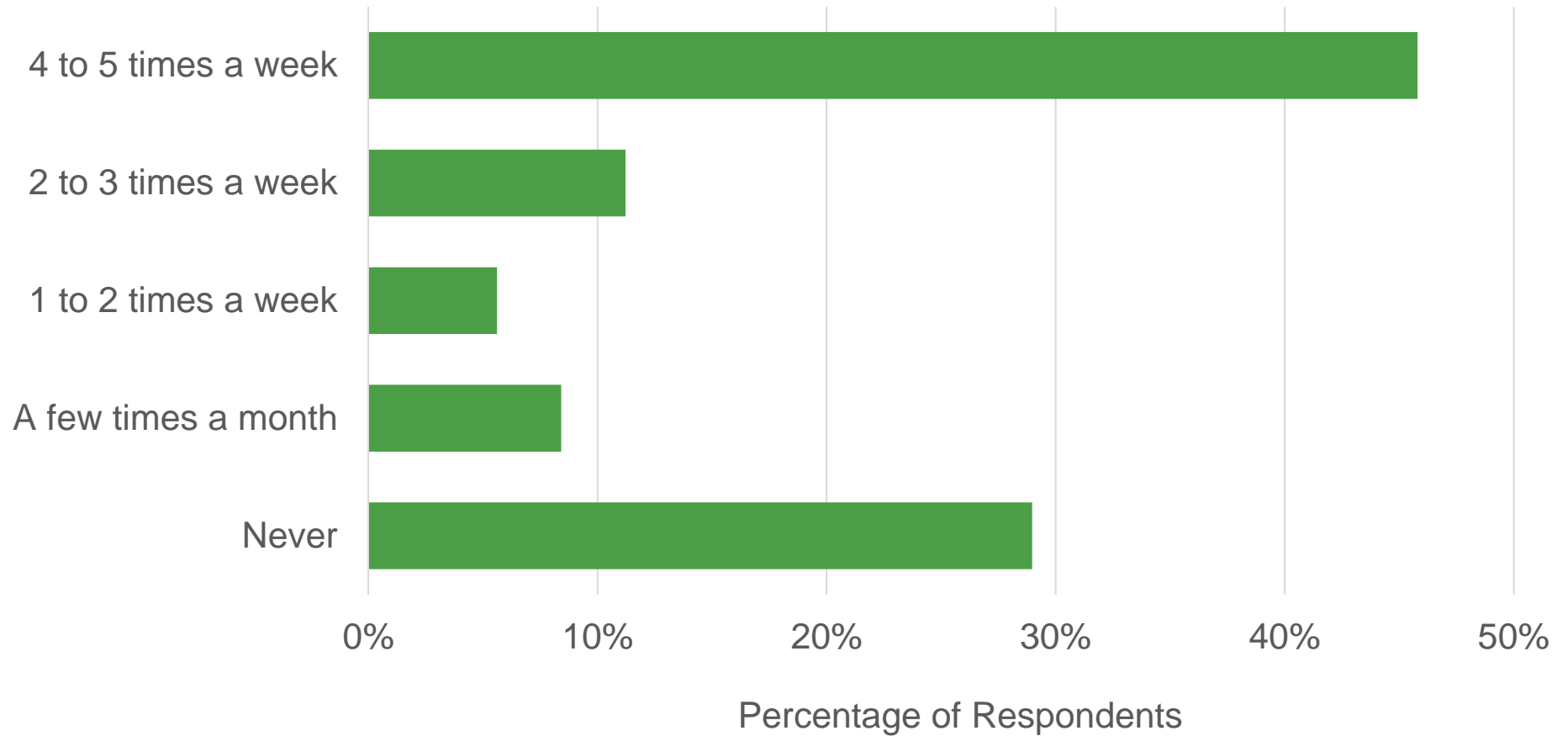
ENJOYMENT



# Reasons For Walking

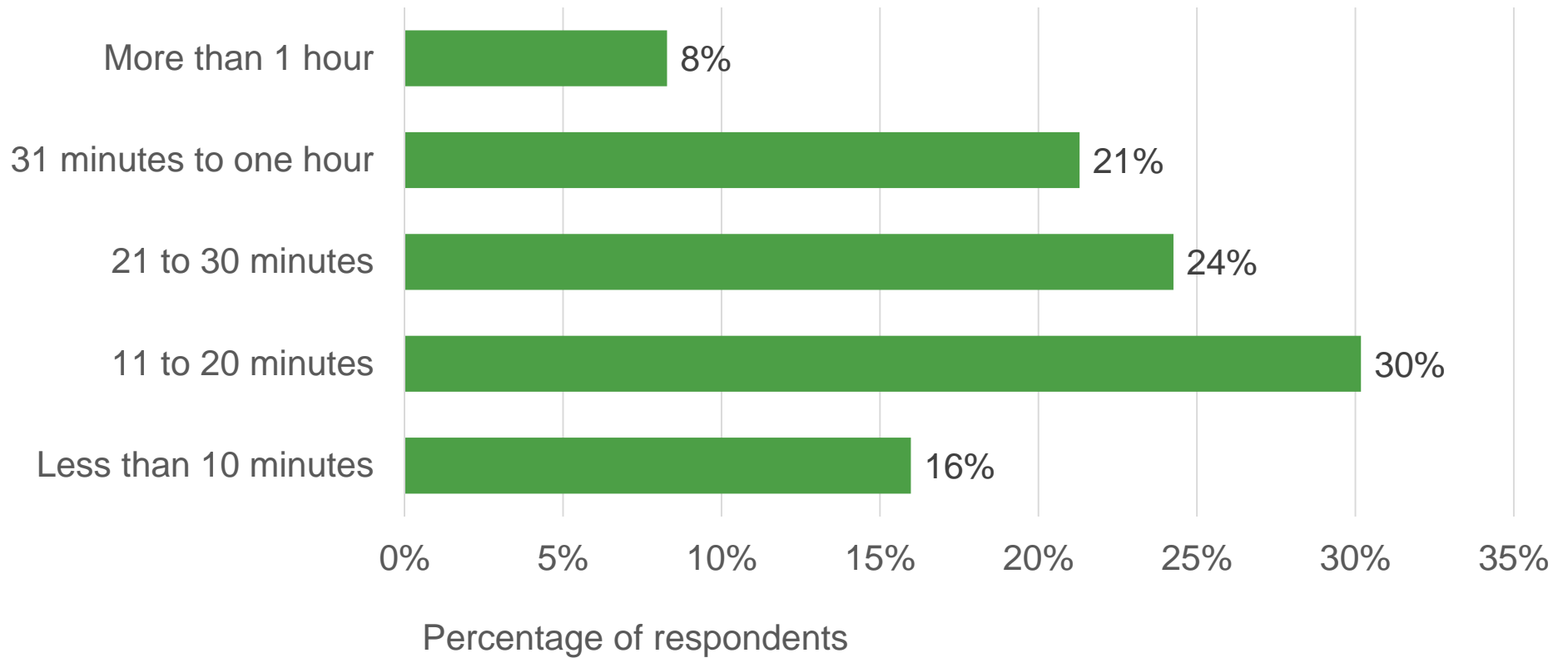


# Travel To School





# Walking Frequency



# Walking Challenges



INTERSECTION  
SAFETY



LACK OF SIDEWALKS  
+ PATHWAYS



SPEED + NOISE OF  
MOTOR TRAFFIC



LACK OF  
LIGHTING

A photograph of a city sidewalk scene. In the foreground, a woman in a grey long-sleeved shirt and dark pants walks away from the camera, holding a leash for a black dog. To her right, another woman in a light-colored top and dark pants walks towards the camera. On the far left, a man in a dark sweater and pants stands near a brick wall, looking towards the camera. The sidewalk is paved with concrete and has a brick border. In the background, there are trees, a street with traffic lights, and parked cars. A green circular text box is overlaid on the right side of the image.

Ensuring  
sidewalks  
are  
properly  
maintained  
37%



**Make it  
easier to  
cross the  
street  
36%**








**Complete  
the  
sidewalk  
network  
36%**



A photograph of a man and a woman walking away from the camera on a paved path. The woman is on the left, wearing a bright orange t-shirt and black leggings. The man is on the right, wearing a dark grey t-shirt with a circular logo that says 'BRUNWILER SURF SCHOOL' and 'TOFINO' below it, and khaki shorts. He is holding a black leash attached to a dark brown dog. The path is surrounded by lush green trees and foliage. In the upper right corner, there is a green circular graphic containing white text.

**More off  
street  
pathways  
31%**





**Lighting**  
31%



# Walking = Fun & Enjoyable

Street trees  
and  
landscaping



Public  
Plazas



Decorative  
crosswalks  
and  
sidewalks



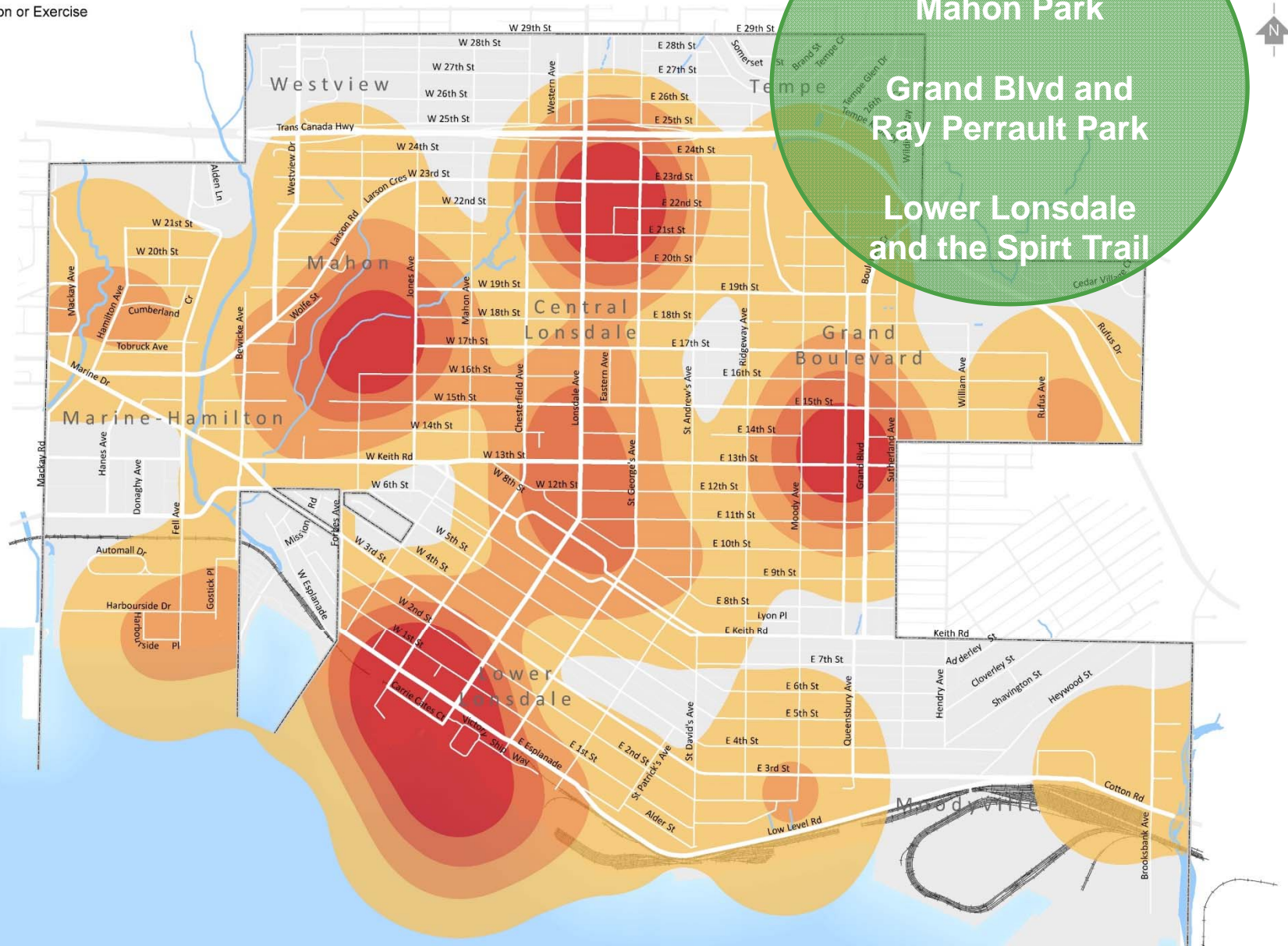
Public Art





# Recreation or Exercise

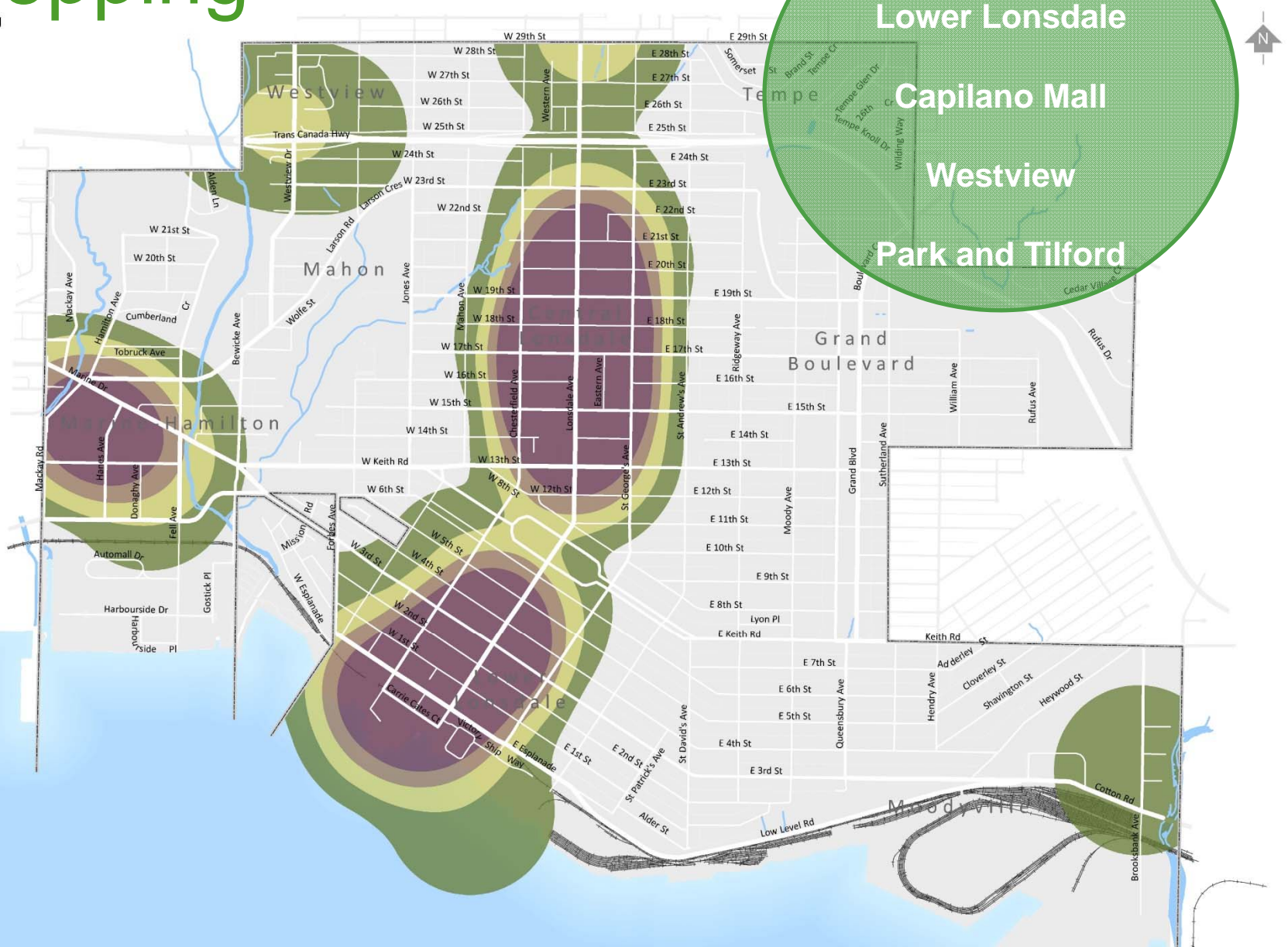
Frequent Places - Recreation or Exercise



# Shopping

Frequent Places - Shopping

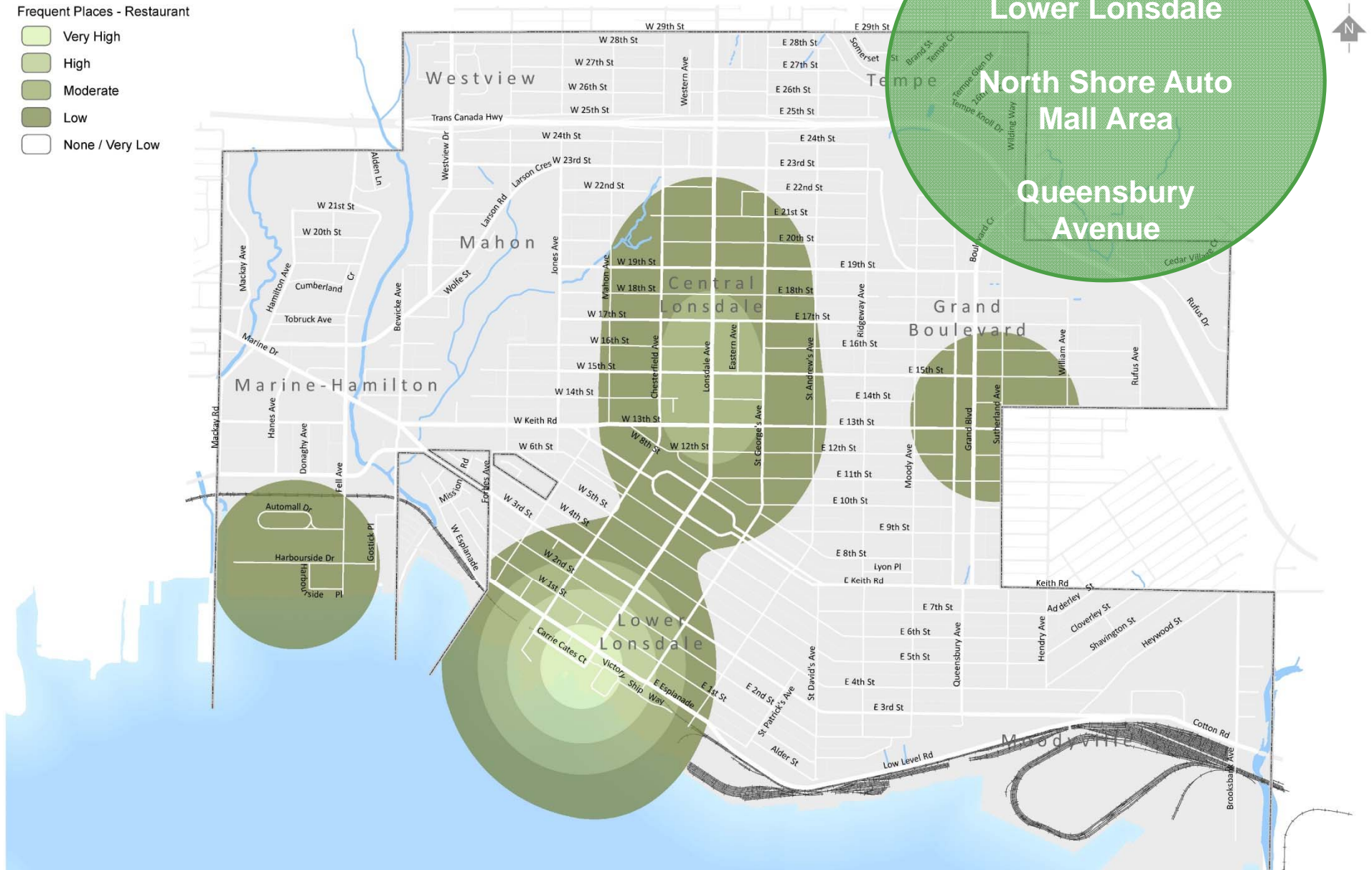
- Very High
- High
- Moderate
- Low
- None / Very Low





# Restaurants

Frequent Places - Restaurant



Frequent Places - Work

- 
- The map displays the City of Westview and its surrounding areas. Key neighborhoods include Westview, Central Lonsdale, Lower Lonsdale, and Park and Tilford. Major streets shown are Mackay Ave, Hamilton Ave, Trans Canada Hwy, and various local roads like W 28th St, W 27th St, W 26th St, W 25th St, W 24th St, W 23rd St, W 22nd St, W 21st St, W 20th St, W 19th St, W 18th St, W 17th St, W 16th St, W 15th St, W 14th St, W 13th St, W 12th St, W 11th St, W 10th St, W 9th St, W 8th St, W 7th St, W 6th St, W 5th St, W 4th St, W 3rd St, W 2nd St, W 1st St, E 28th St, E 27th St, E 26th St, E 25th St, E 24th St, E 23rd St, E 22nd St, E 21st St, E 20th St, E 19th St, E 18th St, E 17th St, E 16th St, E 15th St, E 14th St, E 13th St, E 12th St, E 11th St, E 10th St, E 9th St, E 8th St, E 7th St, E 6th St, E 5th St, E 4th St, E 3rd St. The map also shows the Fraser River and the city's boundary with other municipalities like Westview, Central Lonsdale, Lower Lonsdale, and Park and Tilford.

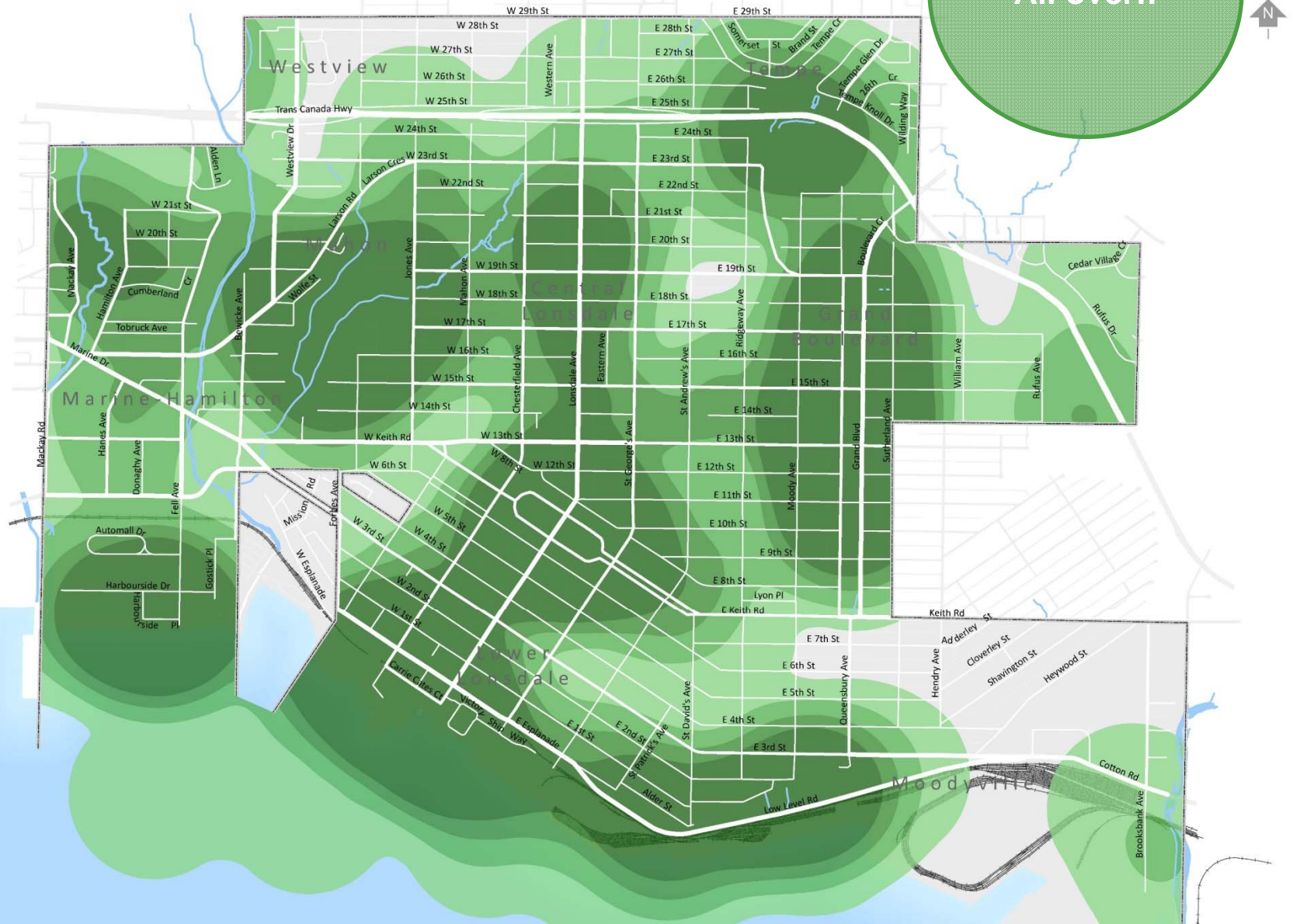
## Park and Tilford



# Great Places to Walk

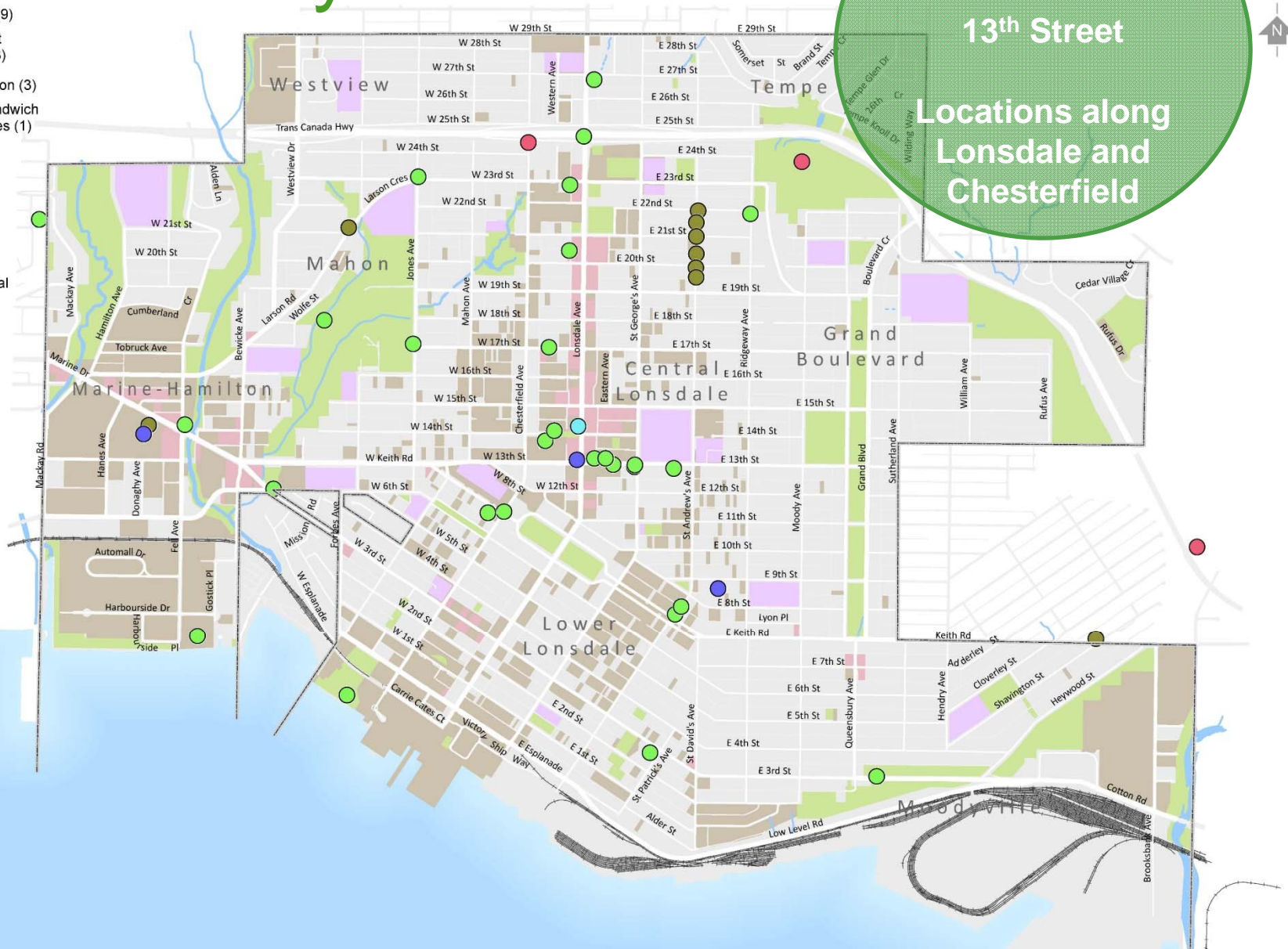
## Great Places to Walk

- Very High
- High
- Moderate
- Low
- None / Very Low



# Accessibility

- Missing curb ramp (9)
  - Curb ramp does not lead to crosswalk (3)
  - Overgrown vegetation (3)
  - Sidewalk clutter sandwich boards or utility poles (1)
  - Other (29)
- Commercial Zoning
- Comprehensive Development
- Parks
- School & Institutional



## St Andrews Avenue

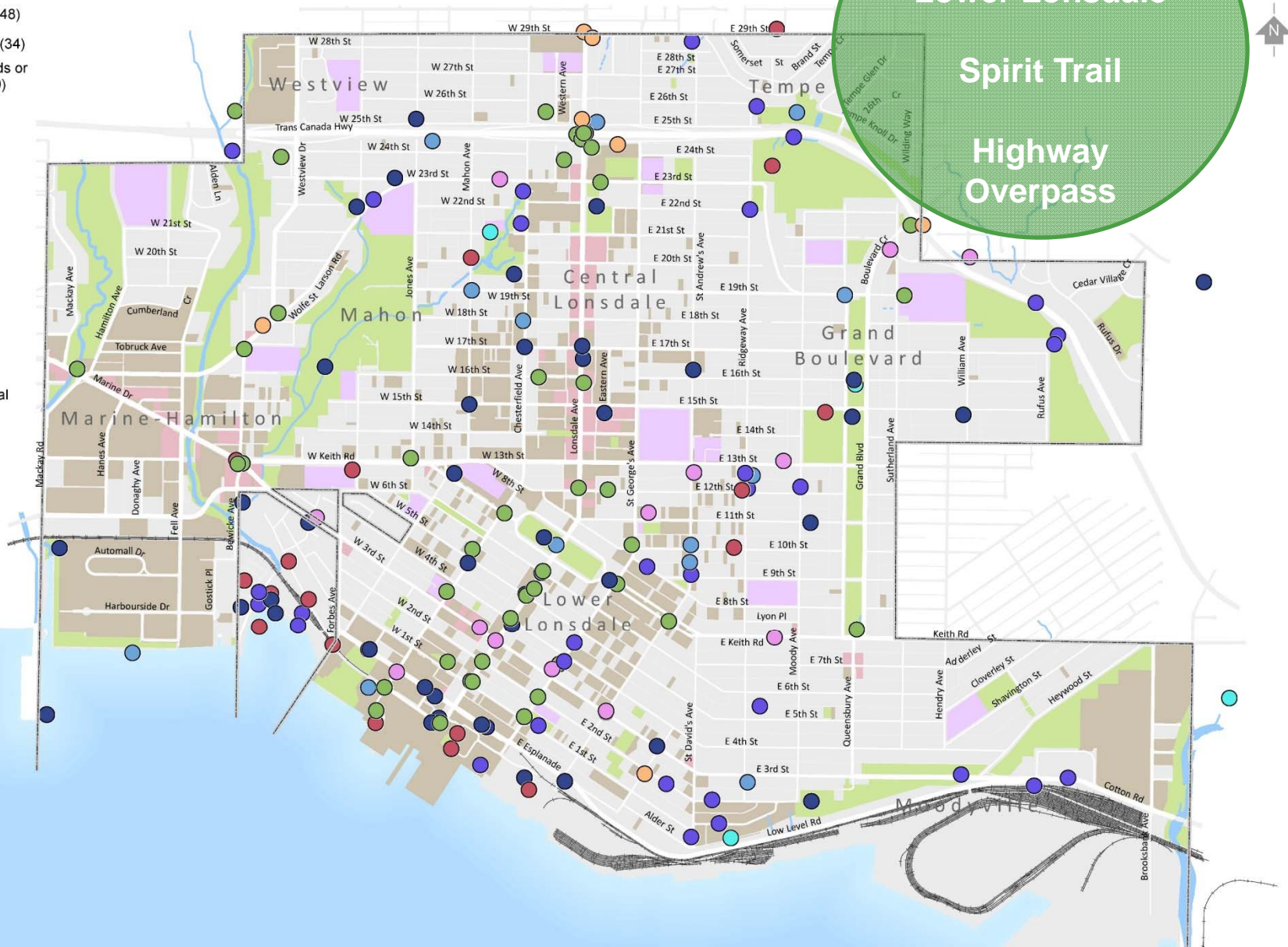
## 13<sup>th</sup> Street

# Locations along Lonsdale and Chesterfield



# Infrastructure

- Intersection safety (48)
- No sidewalk or trail (34)
- Sidewalk or trail ends or is discontinuous (19)
- Its too dark (13)
- Traffic volumes and speeds (13)
- Sidewalk or trail is too narrow (7)
- Sidewalk or trail condition (5)
- Other (46)
- Commercial Zoning
- Comprehensive Development
- Parks
- School & Institutional



# Incorporating The Survey Results

- Help to identify pedestrian areas
- Overlay the issue points with existing infrastructure
  - Sidewalks / curb letdowns
  - Identify future projects
  - Intersection improvements
- Demographics

# Pedestrian Facility Types

- Understanding the importance of providing pedestrian facilities that are comfortable to all users based on neighbourhood and street context





# Crossings



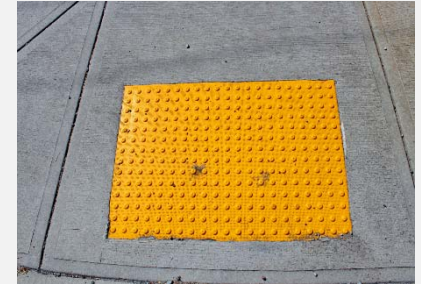
**Raised Crosswalk**



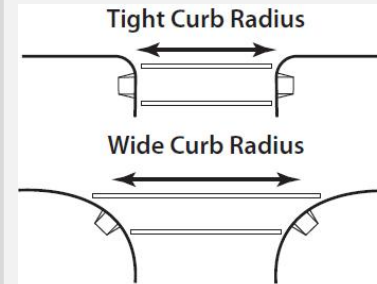
**Curb Ramps**



**Midblock Crossings**



**Tactile Surfaces**



**Corner Radii** can help to attribute to lower design speeds and shorter crossing distances.



**Crossing Distance** can be shortened by the use of curb extensions.  
**curb extensions**



**Decorative Crosswalk**



**Raised Intersections**

# Signals



**Pedestrian Activated Signals** are used to assist pedestrians in crossing major streets in areas where there is high pedestrian demand, but where a full traffic signal is not warranted.



**Leading Pedestrian Intervals** gives pedestrians the “Walk” symbol several seconds before motor vehicles traveling in the parallel direction are given a green light.



**Pedestrian Warning System** with flashing devices



**Accessible Signals** - Audible Signals and Countdown Timers



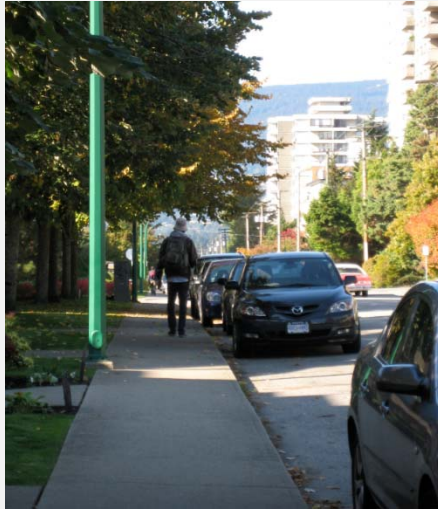
**Pedestrian Scramble**



# Corridors



**Wider Sidewalks**



**On Street Parking**  
Provides a Buffer  
Between Pedestrian  
and Parked Cars



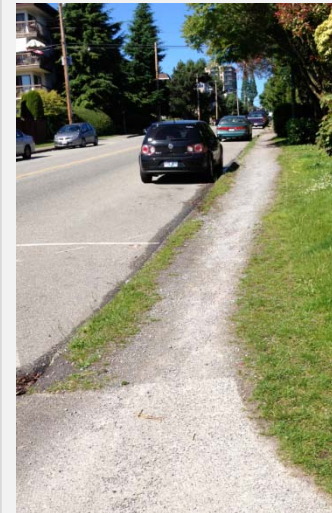
**Engaging  
Streetscape**



**Clear,  
Smooth, Even  
and  
Unobstructed  
Sidewalks**



**Buffered Sidewalks  
and Street Trees**



**Additional  
Sidewalks to  
Bridge Gaps  
in the  
Network**

# Traffic Calming



**Speed Humps**



**Traffic Circle**



**Chicanes**



**Shared Spaces** are roads where motor vehicles, pedestrians, and bicyclists travel without lane assignment.



**Raised Crosswalk**



**Narrow Lanes**



# Amenities and Place-Making



**Street Furniture**



**Street Lighting**



**Additional Green Spaces**



**Wayfinding**



**Bus Stop Amenities**



**Parklets, Plazas and Public Art**



**Weather Protection and Awnings**



# ITC, ACDI, APC And CYSAT Meetings

- Barriers to walking
  - Lighting
  - Safety at crossings
  - Driver behaviour
  - Accessibility
    - Missing curb ramps / curb ramp direction
    - Uneven sidewalks
    - Sidewalk clutter
    - Maintenance and snow removal
    - Obstructions



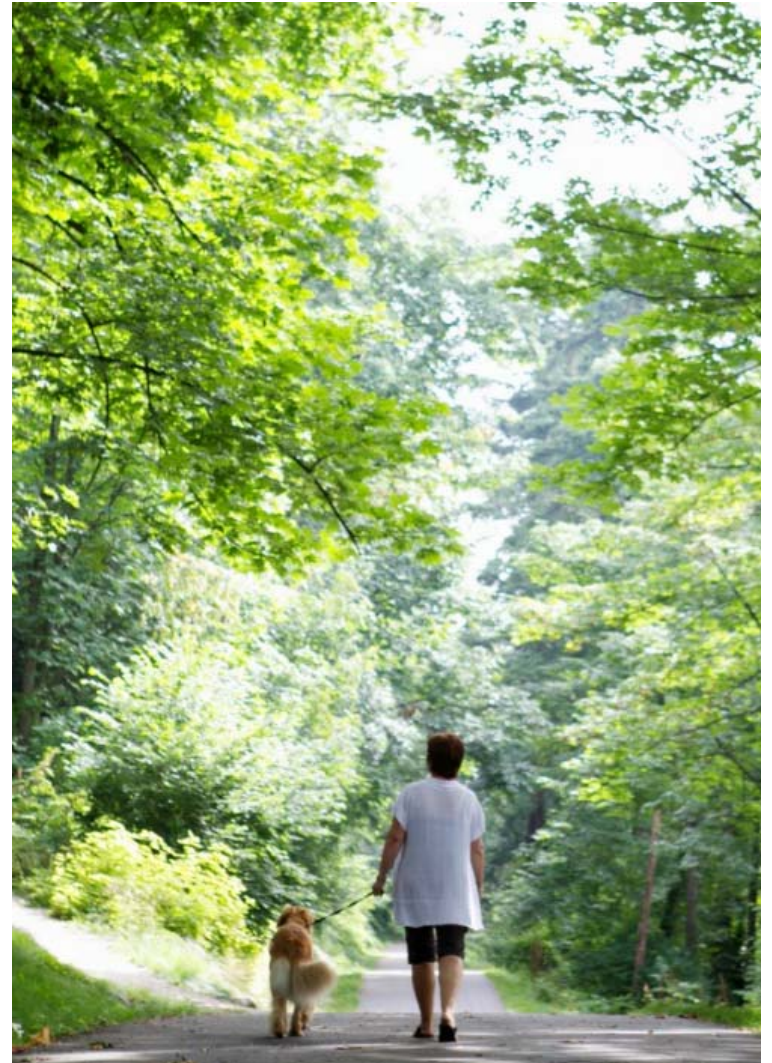
# ITC, ACDI, APC And CYSAT Meetings

- Opportunities for Walking
  - Trails and pathways
  - Alleyways
  - Public spaces and plazas
  - Make walking more fun
  - Prioritize people walking over motor vehicles
  - Walking in the CNV is already pretty good



# Next Steps

- Present the public engagement results
- Prepare a report on the current state of walking
- Phase 3 – recommendations and implementation
- Public event – Summer 2017







# Questions & Comments