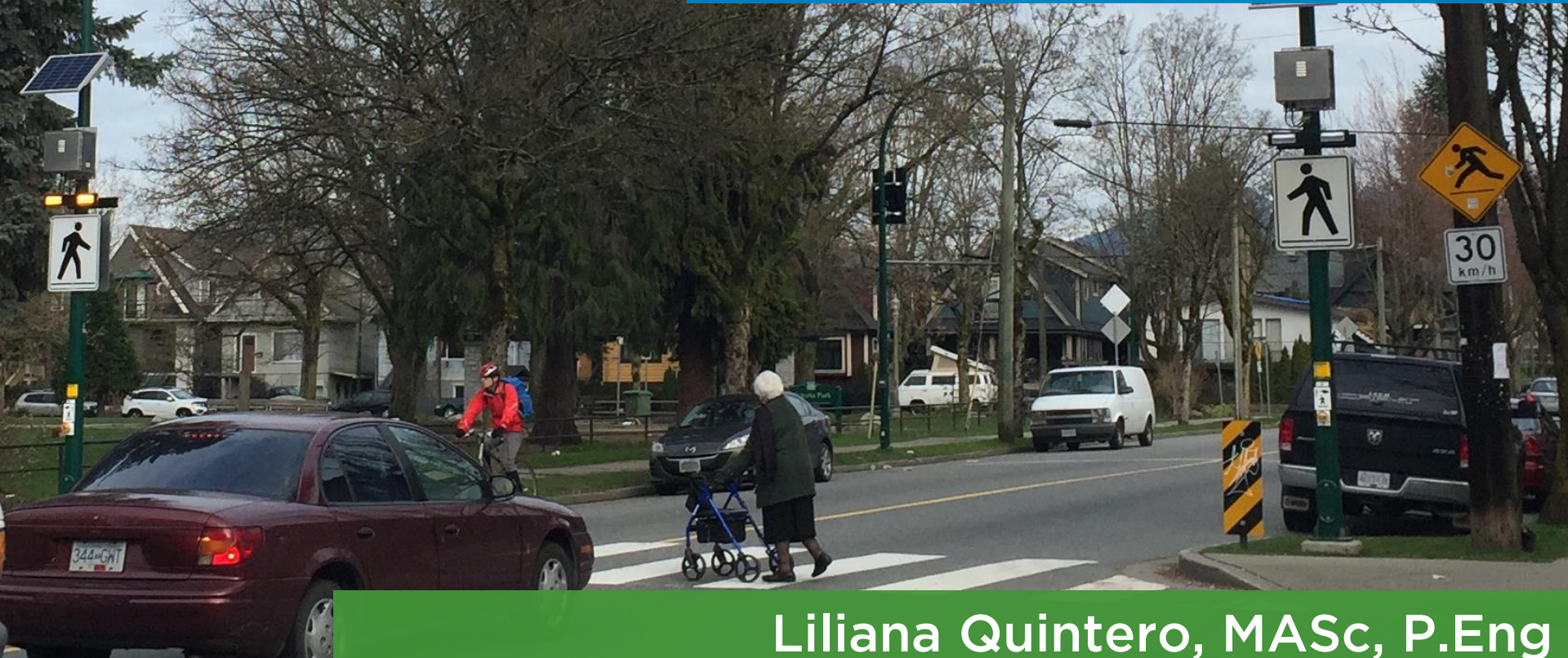


# Pedestrian Safety Initiatives

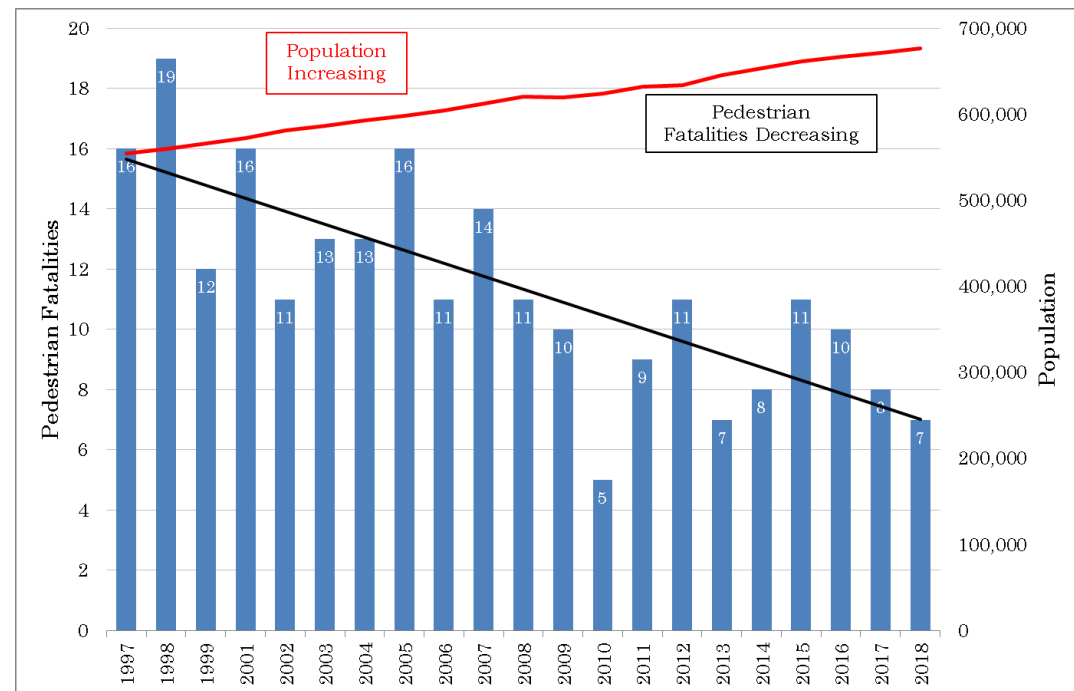
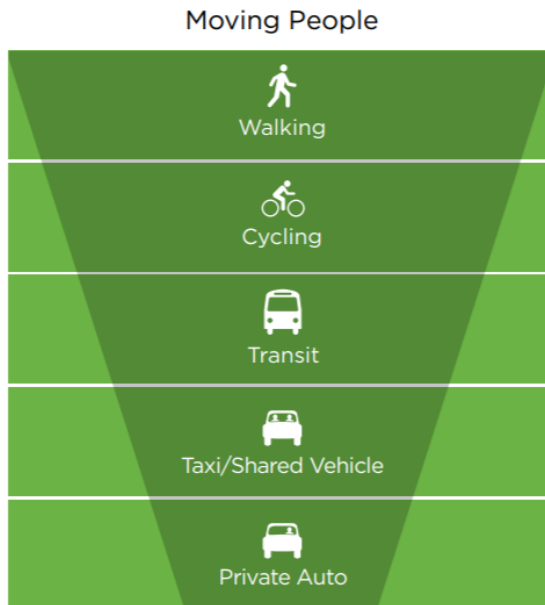


Liliana Quintero, MAsc, P.Eng  
2019 CARSP Conference  
Calgary, AB

# Vancouver Safety Progress

## Transportation 2040:

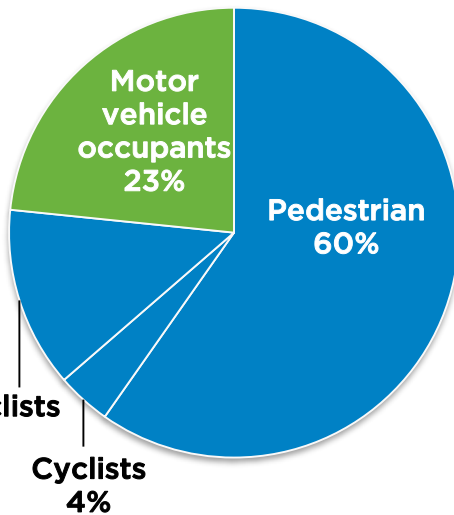
- Hierarchy of modes: walking # 1
- Zero traffic related fatalities
- 2/3 trips by walking, cycling & transit



Source: Vancouver Police Dept. Traffic Fatality Data (1997-2018)

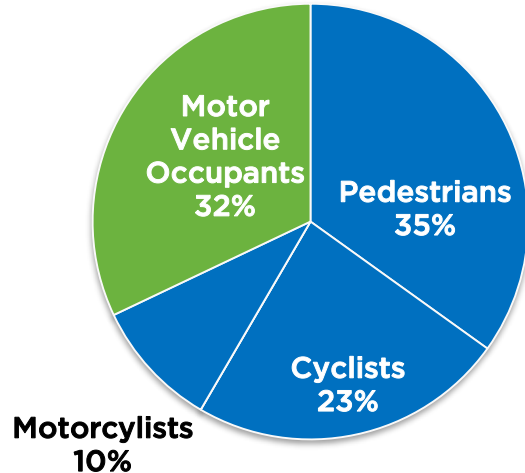
# Vancouver Safety Progress

## Fatalities



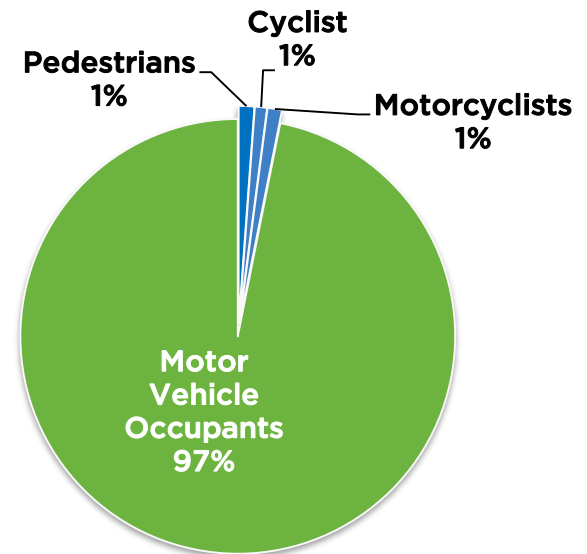
~15 fatalities per year

## Serious Injuries



~300 serious injuries per year

## All collisions



~50,000 collisions per year

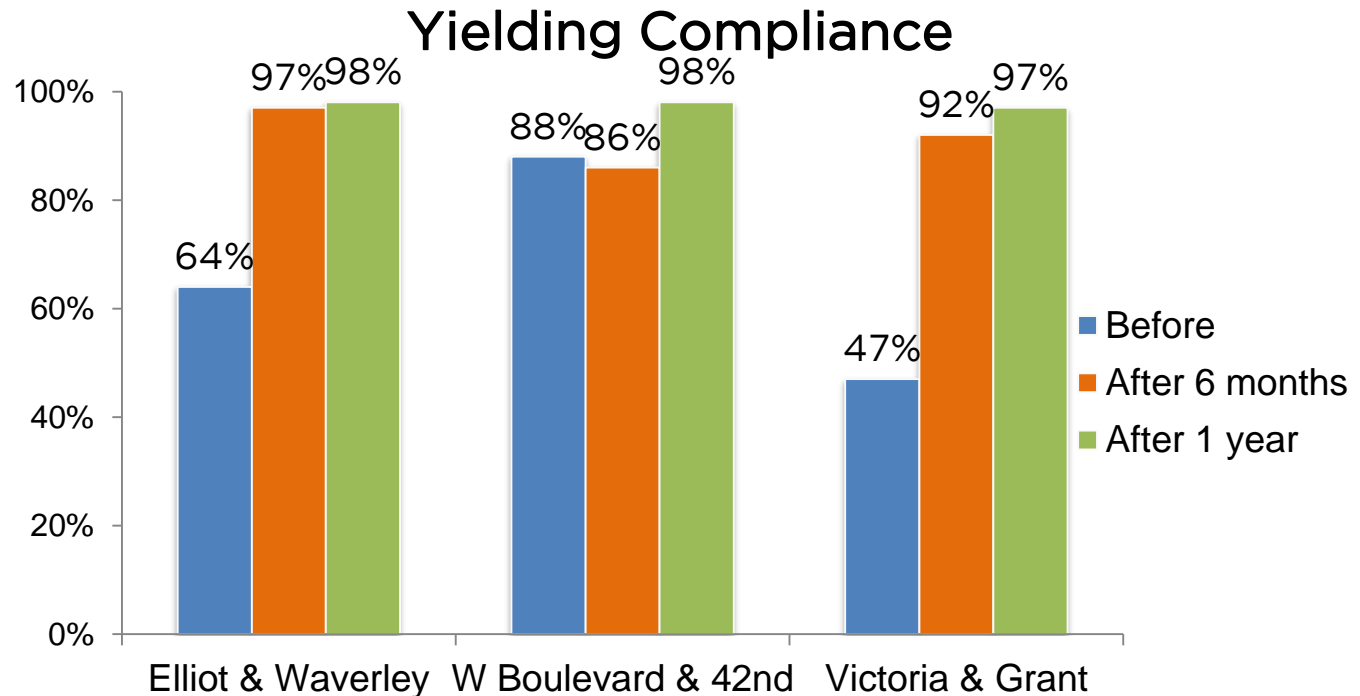
Source:  
Vancouver Police Department, Traffic Fatality Data (2011-18)  
Vancouver General Hospital, Traffic Injury Data (2011-18)  
Insurance Corporation of British Columbia, Collision Data (2011-17)

# Pilot Programs: Rectangular Rapid Flashing Beacons (RRFB)



13 locations

- Increased driver yielding compliance
- Increased distance of yielding
- Positive feedback from the public
- Concerns from Disabilities committee - audibles
- Evaluating reliability of solar power, technical issues at one location

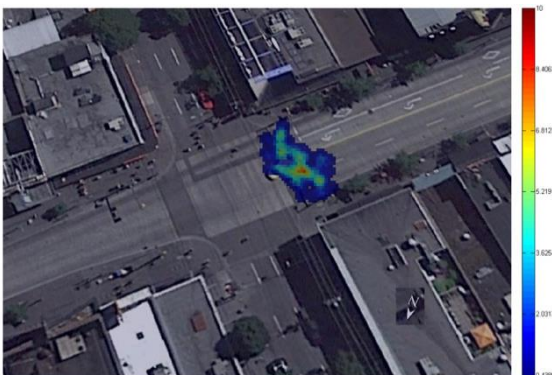


# Pilot Programs: Leading Pedestrian Intervals (LPI)

Pedestrian-vehicle  
conflict frequency  
heat map  
(conflicts/m<sup>2</sup>)



Before



After

4 locations

Lessons learned:

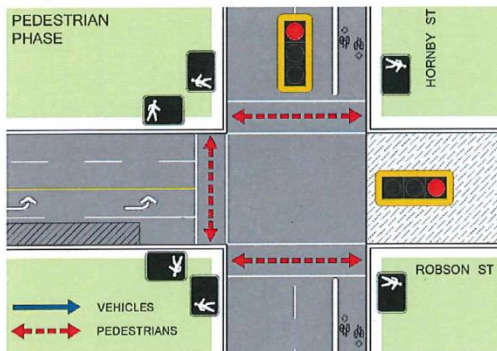
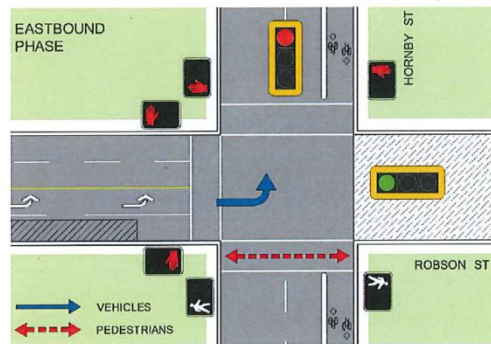
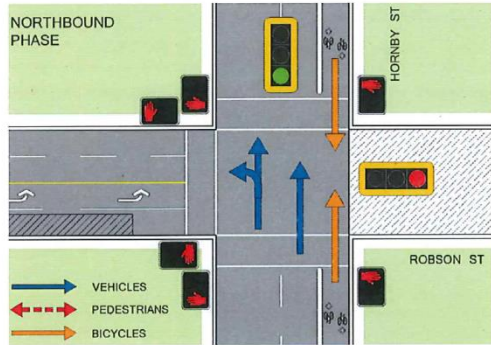
- Reduction of conflicts between pedestrians and turning vehicles: 12-20%
- Reduction in severe conflicts: 50%
- Low cost & quick to implement

Other considerations

- Cyclists crossing with the LPI
- Implications to blind users
  - Implement at signals with APS/audibles



# Pilot Programs: All Walk Phase (Summer 2019)



## Advantages:

- Reduces conflicts between pedestrians and turning vehicles

## Impacts:

- Pedestrians need to wait longer to cross
- Increased delay for other modes
  - Avoid busy transit routes
- Implications to blind users
  - Curb ramps with score lines to guide users
  - Audible message: “ All walk is on”

# Pilot Programs: 30 km/hr in Residential Roads

URBANIZED VAN DAILYHIVE dished GROW Mapped VENTURE

City Hall, Transportation, Urbanized, News

## Vancouver passes motion on 30km/h limit pilot project for side streets and residential areas

DH Vancouver Staff  
May 14, 2019 1:44 pm 5,354



@PFry/Twitter

A Vancouver City councillor's motion for a pilot project on reducing the speed limit on the city's side streets and residential areas to 30 km/h passed unanimously on Tuesday.



Pete Fry  
@PFry

Word that @CityofVancouver Staff are excited about our safer streets motion passed unanimously at council today. They've brought out last year's Halloween costumes!

Next stop #UBCM #30kph #VisionZero #RoadSafety @UNGRSW

2:43 PM - May 14, 2019

59 23 people are talking about this

# VANquish collisions HACKATHON

September 7-9, 2018

Wayne & William White Engineering  
Design Centre, UBC  
[vancouver.ca/vanquish-collisions](http://vancouver.ca/vanquish-collisions)



## What is a hackathon?

- Marathon like competition over ~24-48 hours
- Teams “hack” or computer program to create digital solutions to solve a problem

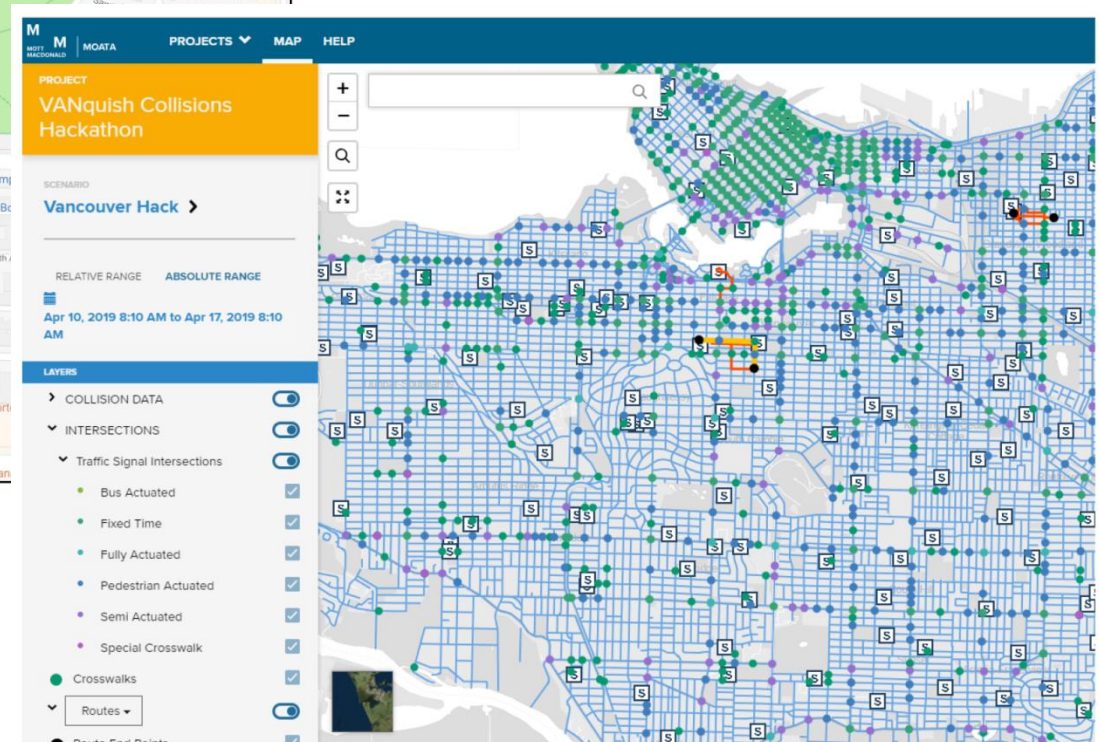
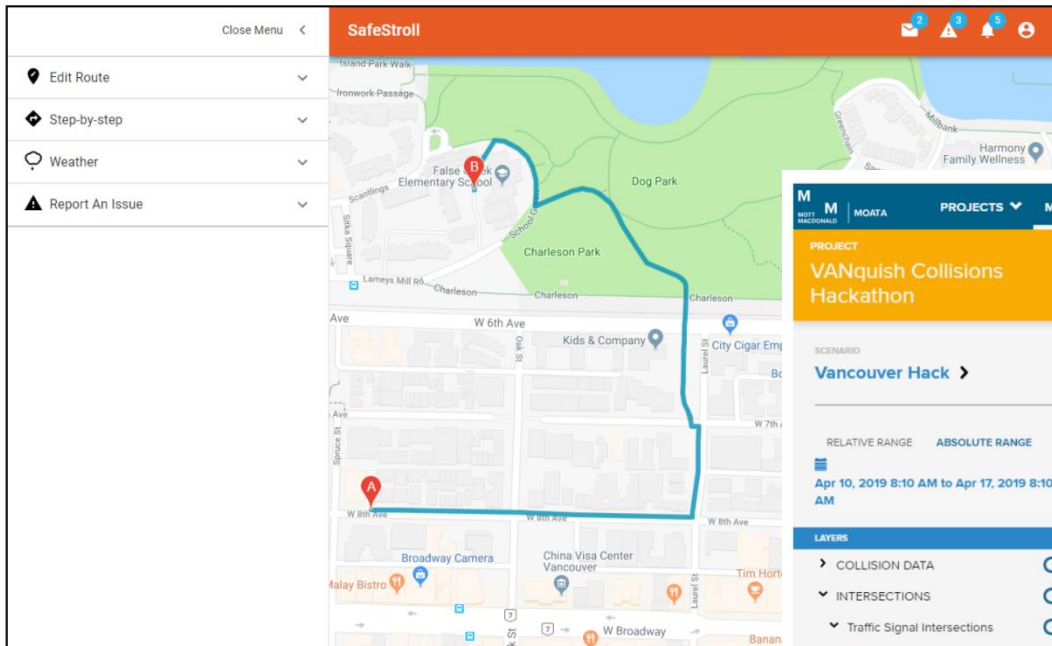
## VANquish Collisions Stats:

- 2.5 days
- 120 participants
- 28 teams
- 24 solutions



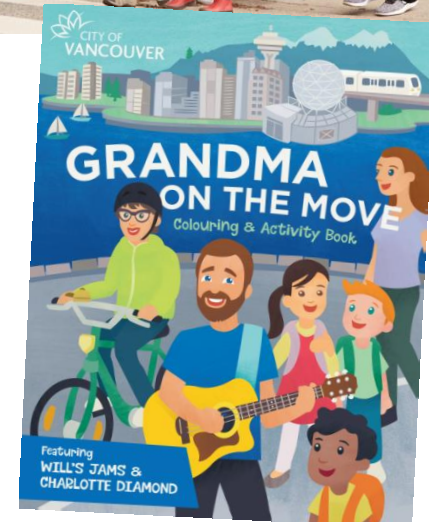
# VANquish Collisions Hackathon: Solutions in Development

## SafeStroll: Safe Walking Routes to School



# Education & Encouragement: Grandma on the Move

- Traffic safety songs by Will Stroet & Charlotte Diamond:
  - **Grandma on the move\***
  - Walk 'n' roll
  - Bike safety boogie
  - Boost me up
  - Walking school bus
  - I have shoes and I can walk
- Concerts at schools
- Traffic safety coloring book

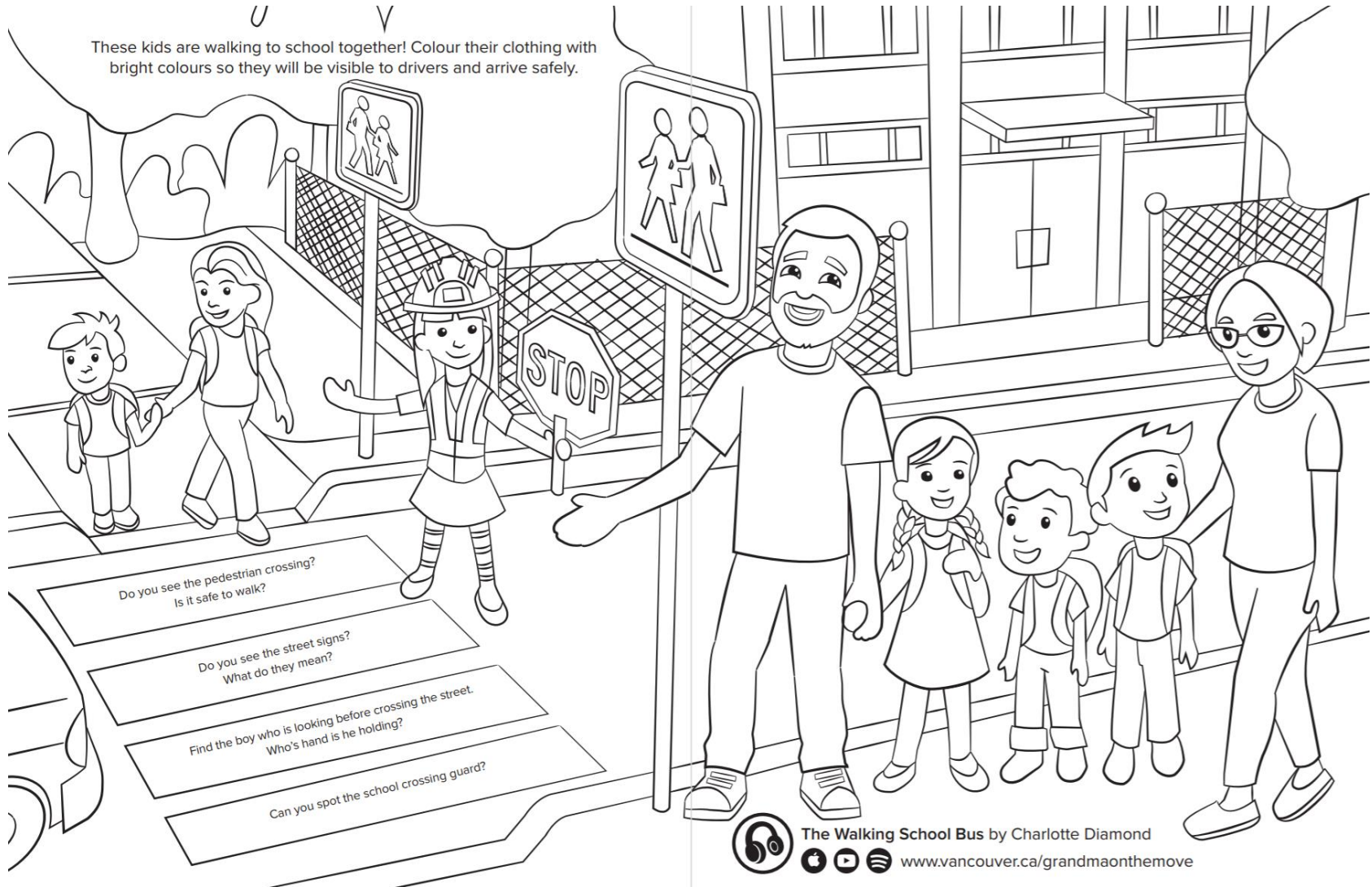


Launching on May 29th, 2019:  
[vancouver.ca/grandmaonthemove](http://vancouver.ca/grandmaonthemove)

# Education & Encouragement: Grandma on the Move



# Education & Encouragement: Grandma on the Move



# Questions?

