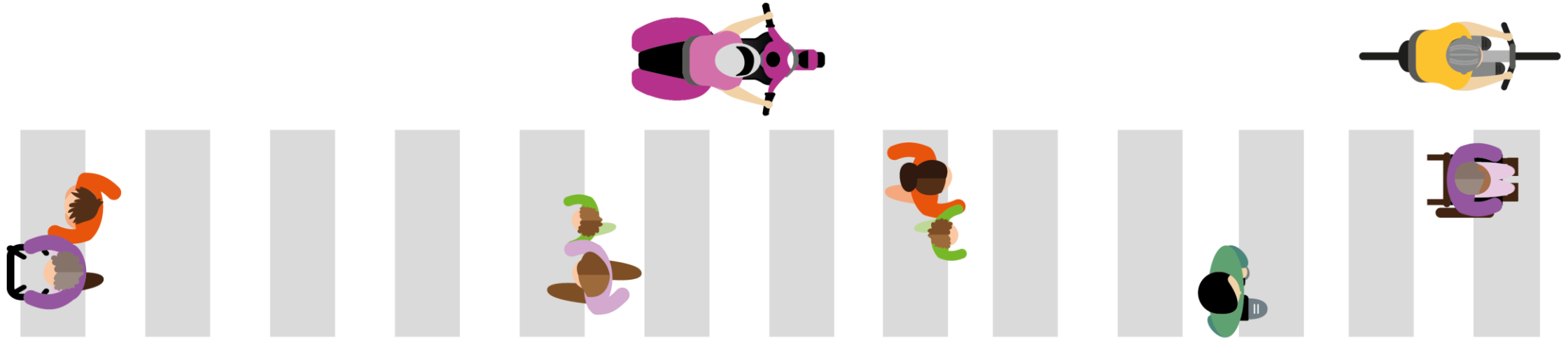


VISIONZERO





TORONTO VISION ZERO ROAD SAFETY PLAN

Emphasizing Safety for Seniors

Roger Browne, M.A.Sc. P. Eng.
Manager, Traffic Safety Unit
December 12, 2017

PRESENTATION AGENDA

1. Overview of the Road Safety Plan
2. Data Analysis and Prioritization
3. Vision Zero Engineering
4. Vision Zero Education and Public Outreach
5. Vision Zero Enforcement
6. Vision Zero Technology
7. Questions

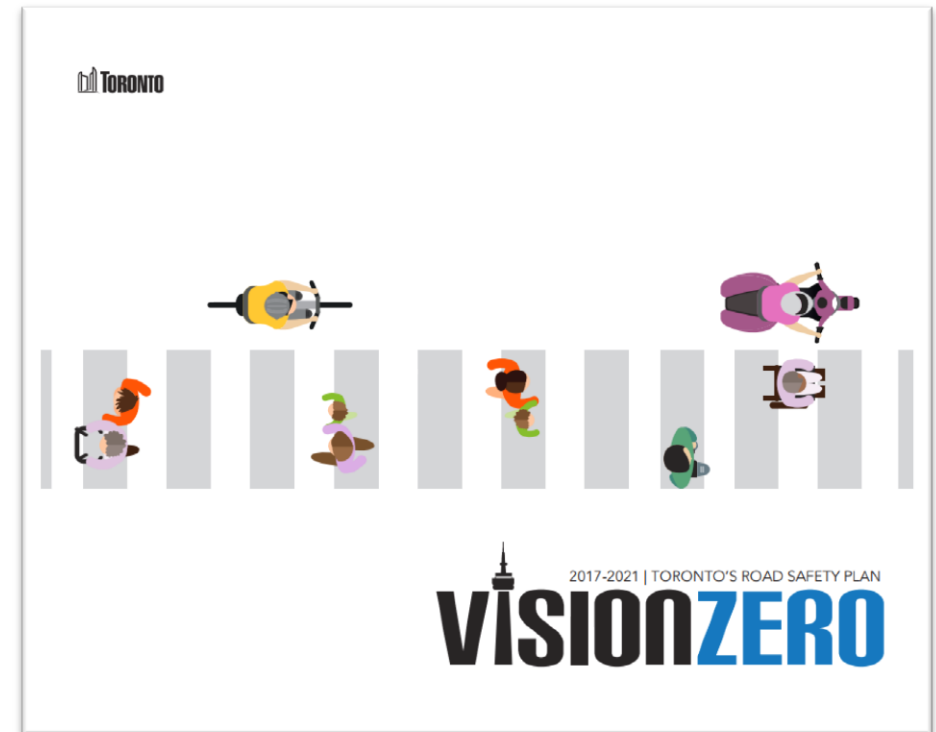
1

OVERVIEW OF THE VISION ZERO ROAD SAFETY PLAN



VISION ZERO ROAD SAFETY PLAN

- A five year \$80M plan to eliminate traffic-related deaths and serious injuries on Toronto's roads
- There are **45 countermeasures** associated with each Emphasis Area to be implemented over the 5 year plan
- Unanimously approved by Toronto City Council, July 2016



[VISION ZERO WEBSITE](#)



COLLABORATIVE EFFORT

Road Safety Plan was developed as a collaborative effort involving a working group comprised of:



TORONTO OFFICIALLY ADOPTS VISION ZERO

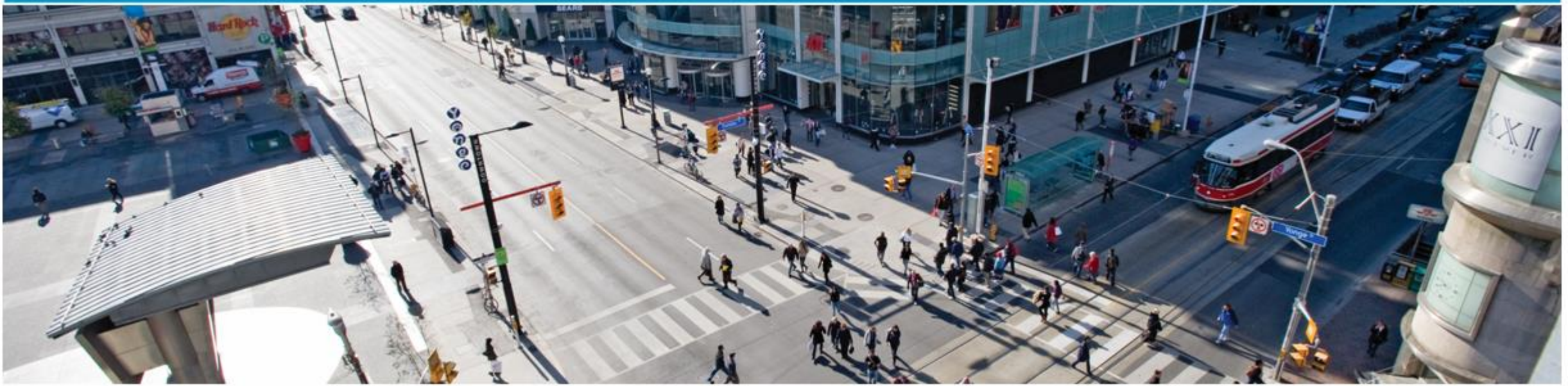


January 10, 2017

Mayor John Tory, Police Chief Mark Saunders, Public Works Chair and City Councillor Jaye Robinson, Transportation Services General Manager Barbara Gray and city staff stand united in official launch of Toronto Vision Zero Road Safety Plan.

**“No loss of life is acceptable....
Vision Zero is the key to ensuring a sustainable City.”**





OUR VISION

ELIMINATING TRAFFIC-RELATED DEATHS AND
SERIOUS INJURIES ON TORONTO'S ROADS



HOW WILL WE ACHIEVE VISION ZERO?



Engineering
Safety Measures



Education
Safety Measures



Technological
Safety Measures



Enforcement
Activities



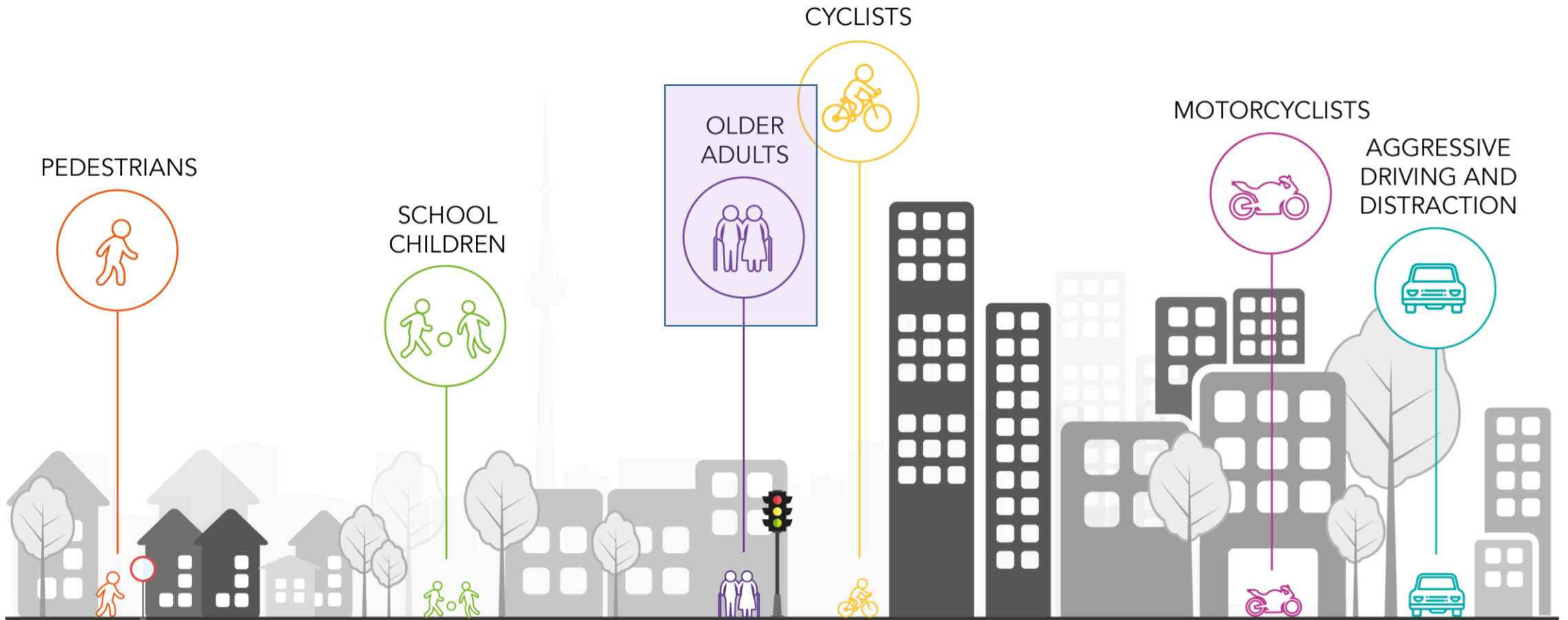
Evaluation
Safety Measures



Engagement
Activities



WHAT ARE OUR EMPHASIS AREAS?

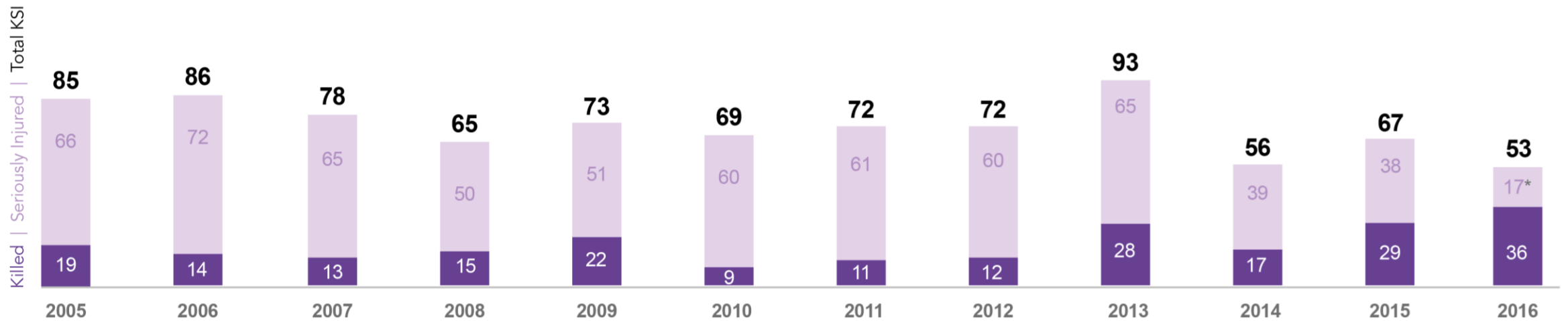


2

DATA ANALYSIS AND PRIORITIZATION



EMPHASIS AREA 3: OLDER ADULTS – TREND LINE

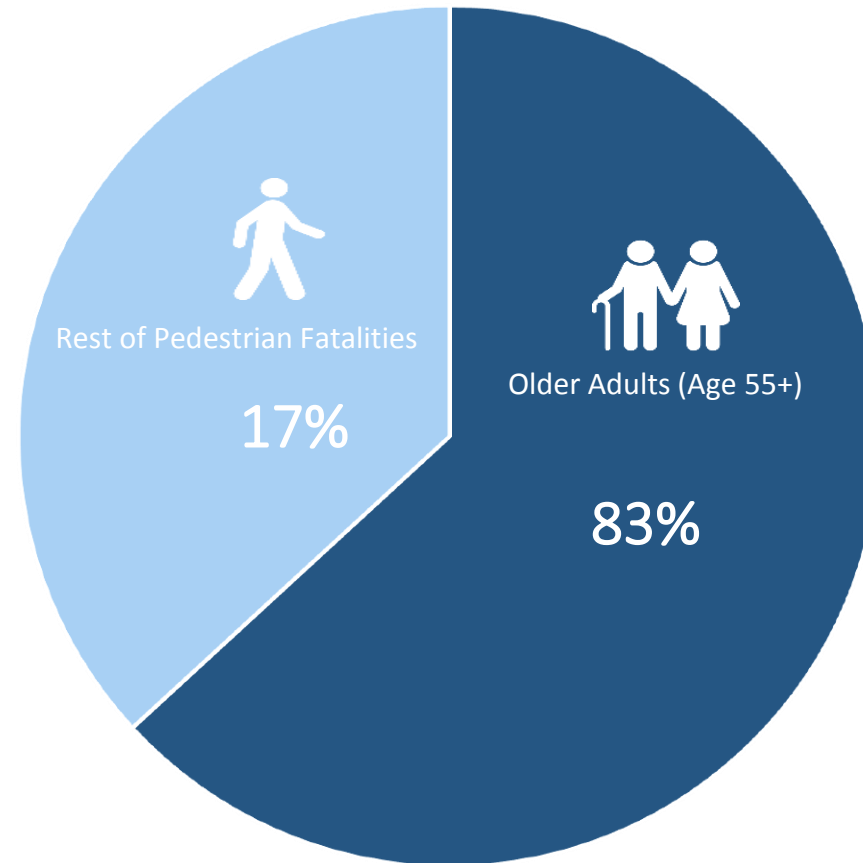


Older Adults Killed in Toronto, January 1, 2005 - December 23, 2016

*Older Adults Seriously Injured in Toronto, January 1, 2005 - June 1, 2016



PERCENTAGE OF OLDER ADULT TRAFFIC RELATED FATALITIES COMPARING TO OVERALL PEDESTRIAN FATALITIES



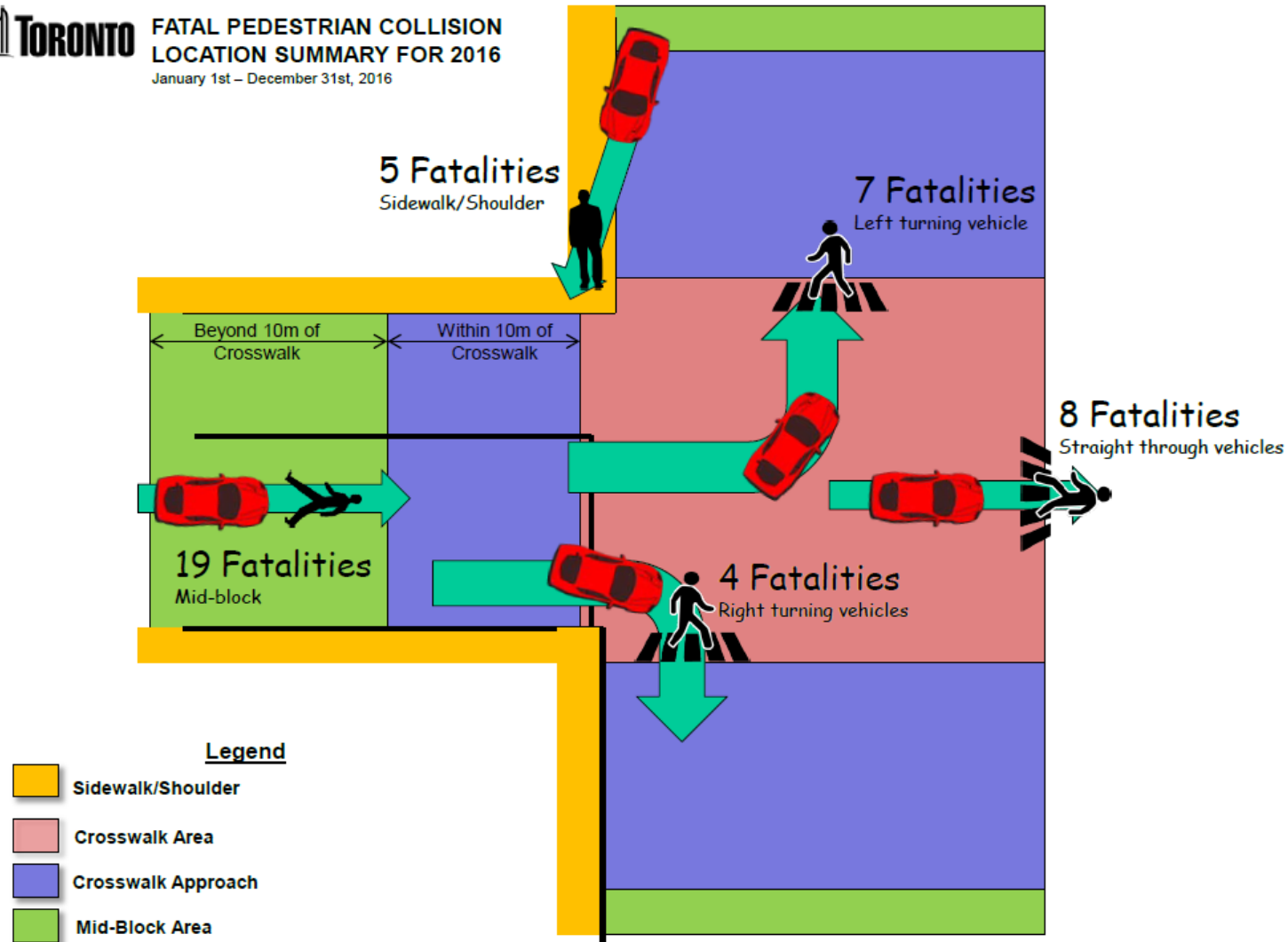
2016



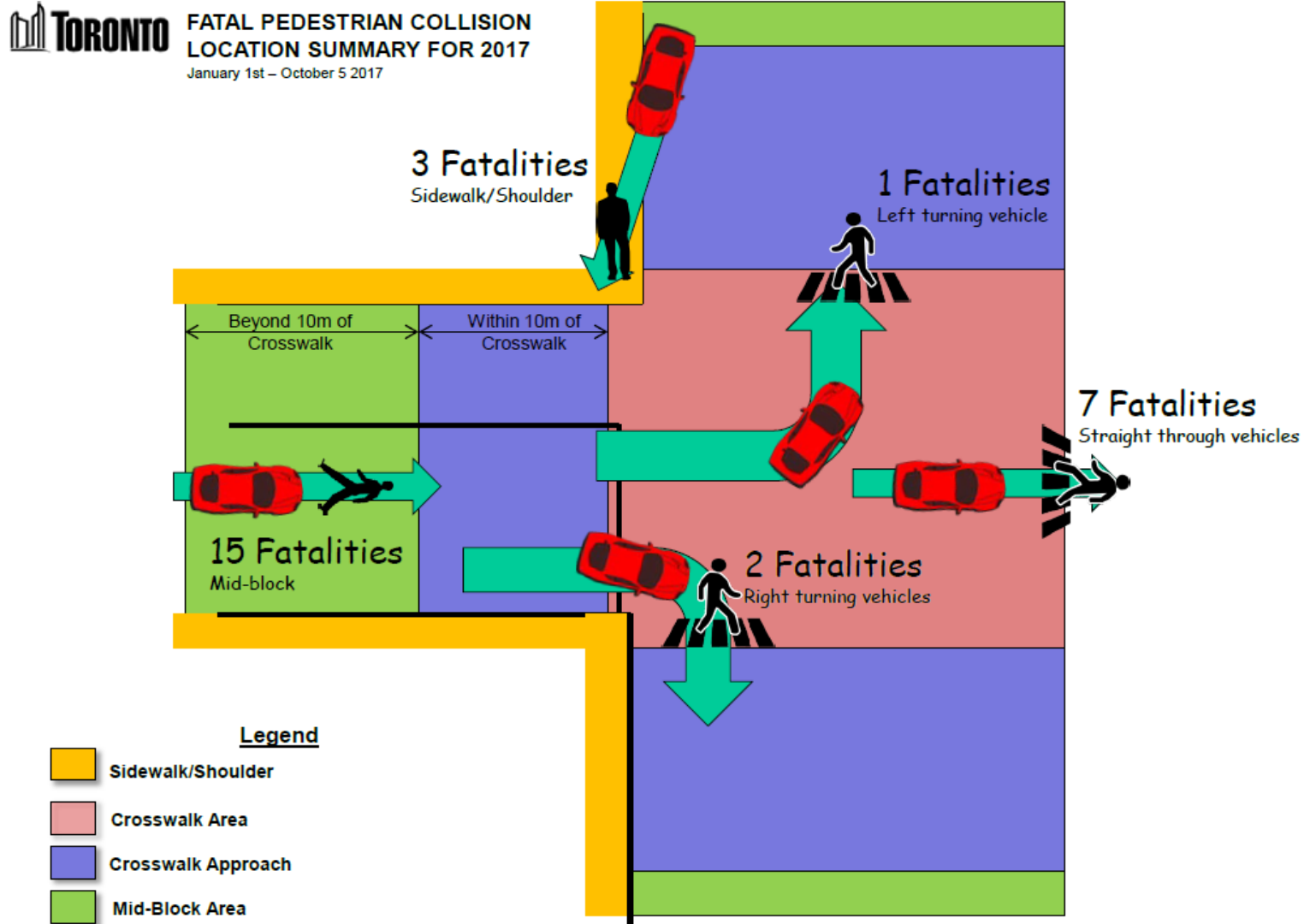
WHERE AND HOW PEDESTRIANS ARE BEING HIT - 2016



FATAL PEDESTRIAN COLLISION LOCATION SUMMARY FOR 2016
January 1st – December 31st, 2016



WHERE AND HOW PEDESTRIANS ARE BEING HIT - 2017



WHY THEY ARE CROSSING MID-BLOCK

- Following pedestrian desired lines:
 - Transit stops on either sides of the road
 - Medical facilities, pharmacies, community centres across the street from seniors homes or residences
 - Shopping facilities, restaurants across from neighbourhoods with high numbers of seniors



PREDOMINANT ISSUE

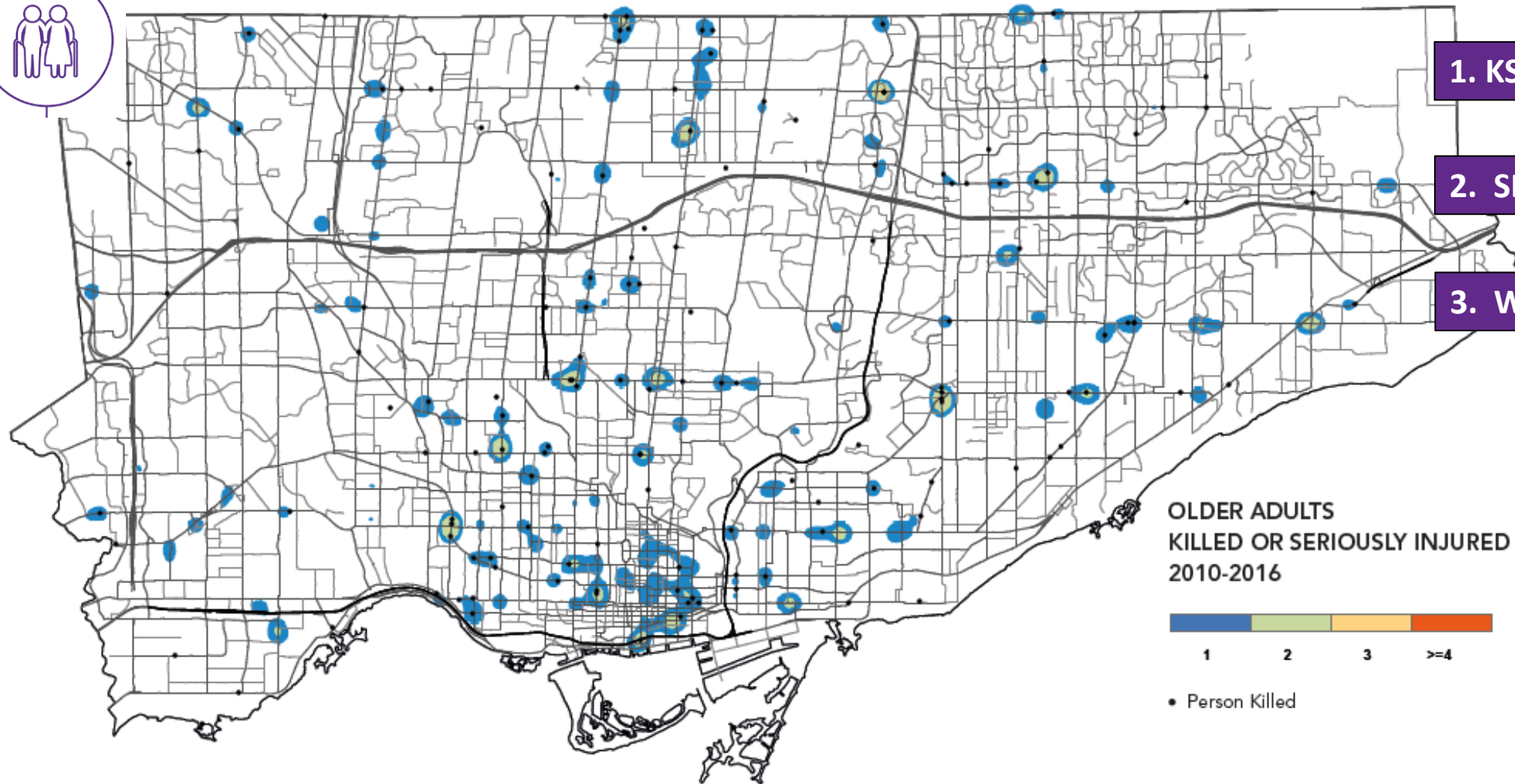
- In many of the cases observed, traffic signals with pedestrian crossings were 500m or more apart
- Need to investigate feasibility of the addition of pedestrian signals and or pedestrian cross-overs

Important Note:

- Many locations had been reviewed in past but, don't meet existing Traffic Warrants



PRIORITIZATION SCHEME

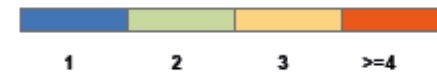


1. KSI COLLISIONS

2. SENIOR FACILITIES

3. WALKING DISTANCE

OLDER ADULTS
KILLED OR SERIOUSLY INJURED
2010-2016



• Person Killed



3

VISION ZERO ENGINEERING



OLDER ADULTS: SENIOR SAFETY ZONE : ENGINEERING FEATURES



New Seniors Safety Zone
"Drive Slowly" Signs at Entry Points



Midblock Pedestrian
Crossings



Designation as Community
Safety Zones



Speed Reductions



Enhanced Pedestrian
Crosswalk Markings



Consideration for
No Right Turn on Red



Increased Pedestrian Walk
Times and Advanced Green for
Pedestrians



Watch Your Speed
Driver Feedback Signs



OLDER ADULTS: SENIOR SAFETY ZONE : **ENGINEERING FEATURES**



Accessible Pedestrians Signals



Sidewalk Repair – Prevention Against Slips, Trips and Falls



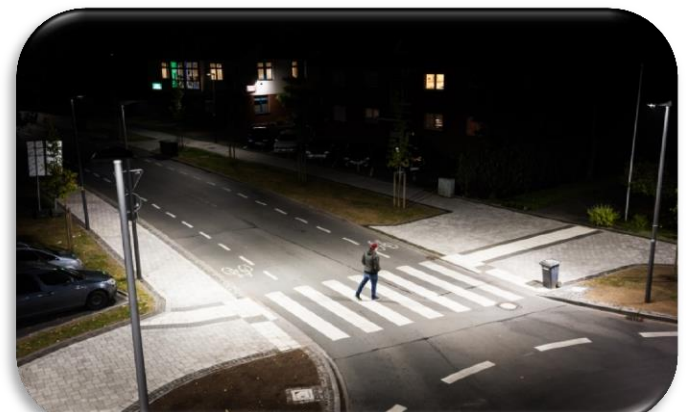
Curb Radius Reductions



Reduced Crossing Distances (Painted Bulb-Outs)



Missing Links Sidewalks



Street Lighting Reviews



4

VISION ZERO
EDUCATION & PUBLIC OUTREACH



EDUCATION AND PUBLIC OUTREACH

Media Outreach



Ensure the public understands why Engineering measures being taken

- Speed reductions
- Increased walk times
- Mid-block signals

Local Outreach



Reach out to seniors living in or near Senior Safety Zones to inform them of the improvements

- Promote increased safety
- Improve community sense of safety



5

VISION ZERO ENFORCEMENT



DATA DRIVEN ENFORCEMENT



Targeted Enforcement Near Senior Facilities

Use a data-driven approach to identify locations near facilities for older adults for police enforcement of aggressive driving behaviour and road user distraction.

Enforcement of Dangerous Driving Behaviours in Senior Safety Zones

- Speeding and Distraction
- Prohibited Turn Movements
- Stop Sign Running
- Blocking Intersections



6

VISION ZERO TECHNOLOGY



AUTOMATED ENFORCEMENT



Red Light Cameras



Automated Speed Enforcement
(FUTURE)

- Red Light Cameras already in some Senior Safety Zones
- Senior Safety Zones to be made Community Safety Zones so they can be eligible for Automated Speed Enforcement

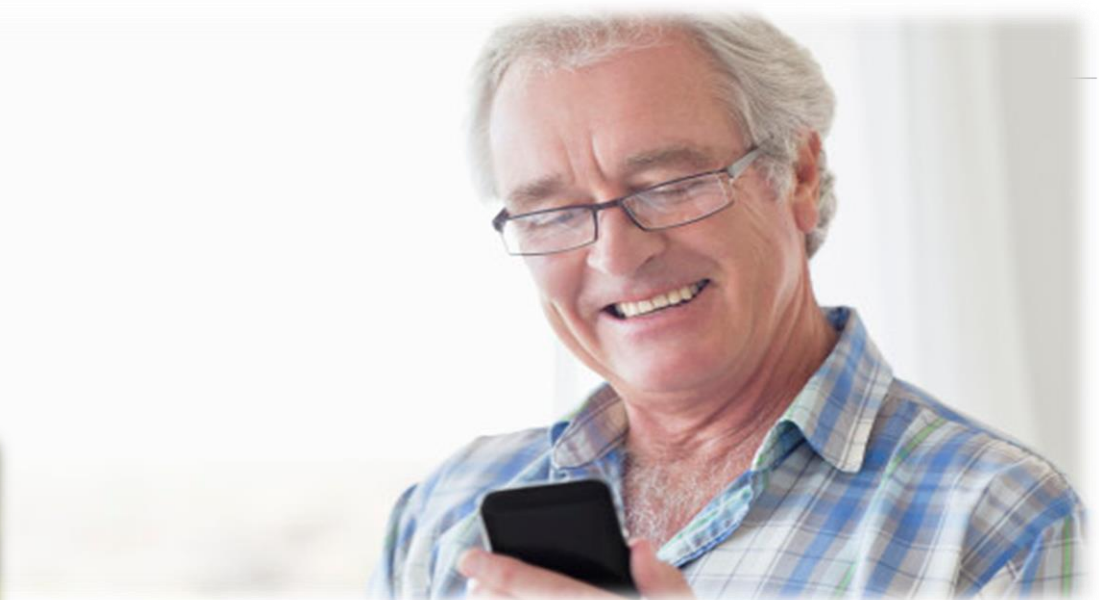


PASSIVE PEDESTRIAN DETECTION

- Pilot project to investigate possible options for passive pedestrian detection



Extended Walk-Time



Pedestrian Cell Phone APP



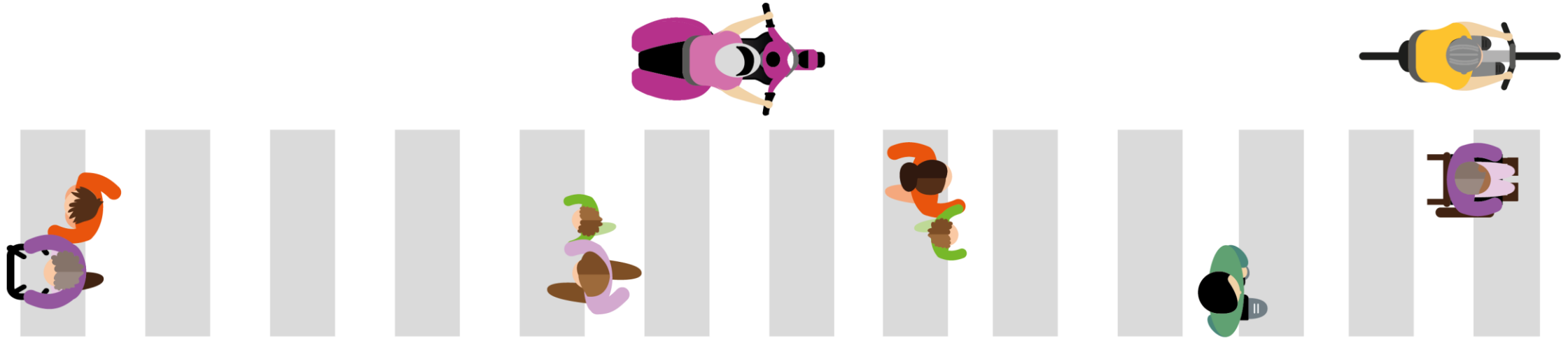
Pedestrian FOB



7

QUESTIONS





VISIONZERO

