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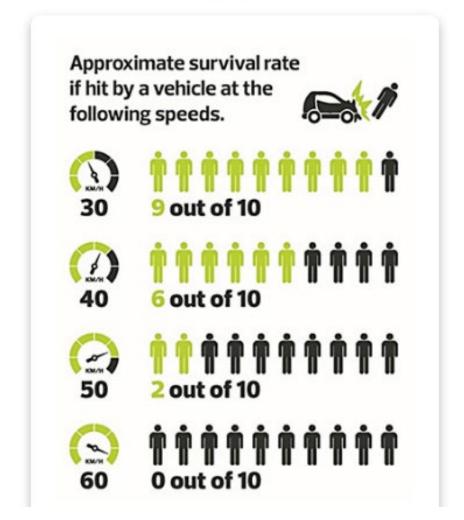
**Speeding Kills** 



# Pedestrian Survival Rate by Vehicle Speed

A reduction in vehicle speed from 50 km/hr to 30 km/hr reduces the average probability of a pedestrian fatality from approximately 80 percent to approximately 10 percent.

CANADIAN ASSOCIATION
OF ROAD SAFETY PROFESSIONALS



Online from:

https://www.edmonton.ca/transportation/traffic\_safety/residential-speed-limits-fag



#### **Speeding Kills**

Ministry of Transportation

# Preliminary 2022 Ontario Road Safety Annual Report Selected Statistics

**At a Glance:** Situations with the Highest Road Fatalities, 2022

Category	Number of Fatalities	Percentage of Total Fatalities*
Pedestrian fatalities	92	15.5%
Large truck collisions	110	18.6%
Drinking and driving collisions	68**	11.0%
Inattentive driving collisions	97	16.4%
Speed-related collisions	105	17.7%
Motorcyclist fatalities	83	14.0%
Unbelted occupant fatalities	79	13.4%

<sup>\*</sup>Some fatal crashes involve more than one of the factors listed. These percentages do not add to 100.

<sup>&</sup>quot;This figure has not been verified against fatality files from the Office of the Chief Coroner (OCC) of Ontario. The final figure will change depending on OCC findings

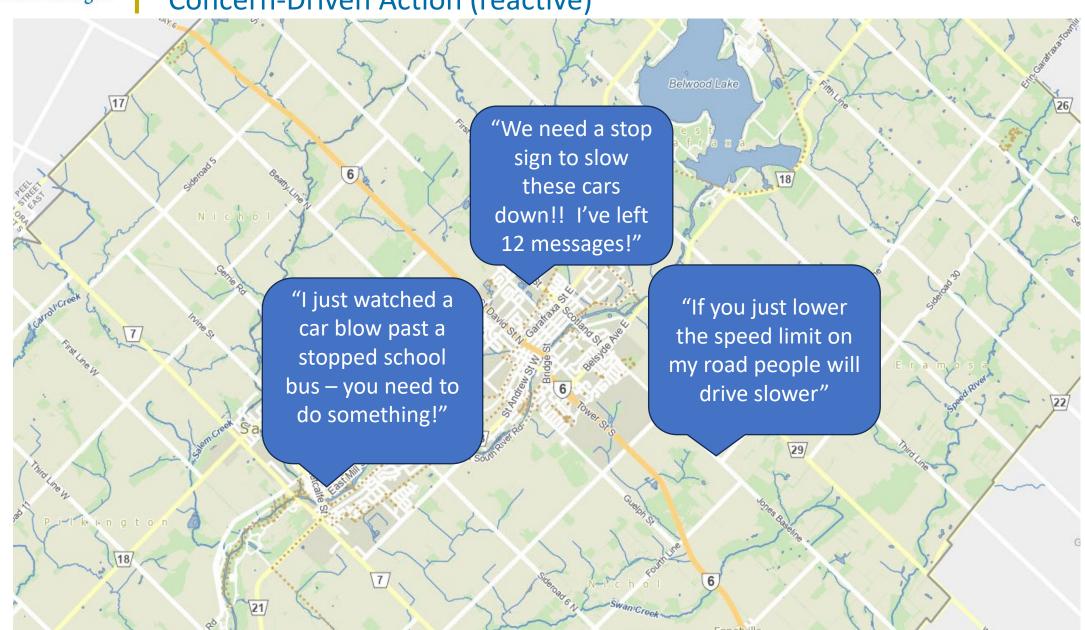
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Reactive vs. Proactive Solutions



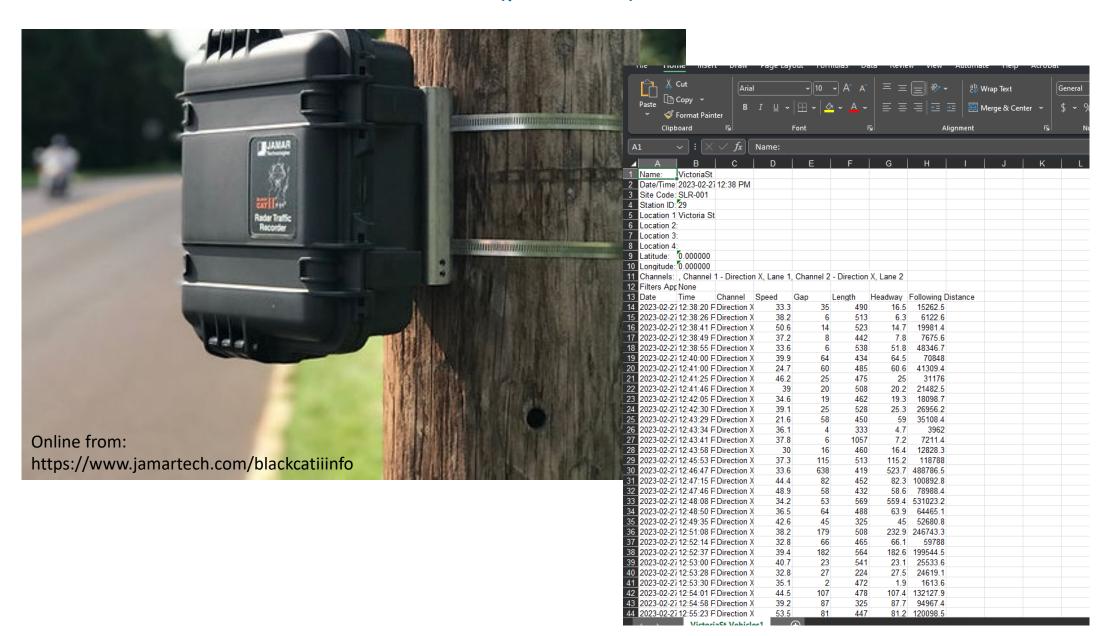


# Concern-Driven Action (reactive)





#### Data-Driven Action (proactive)



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CW's Speed Limit Policy and Technical Approach



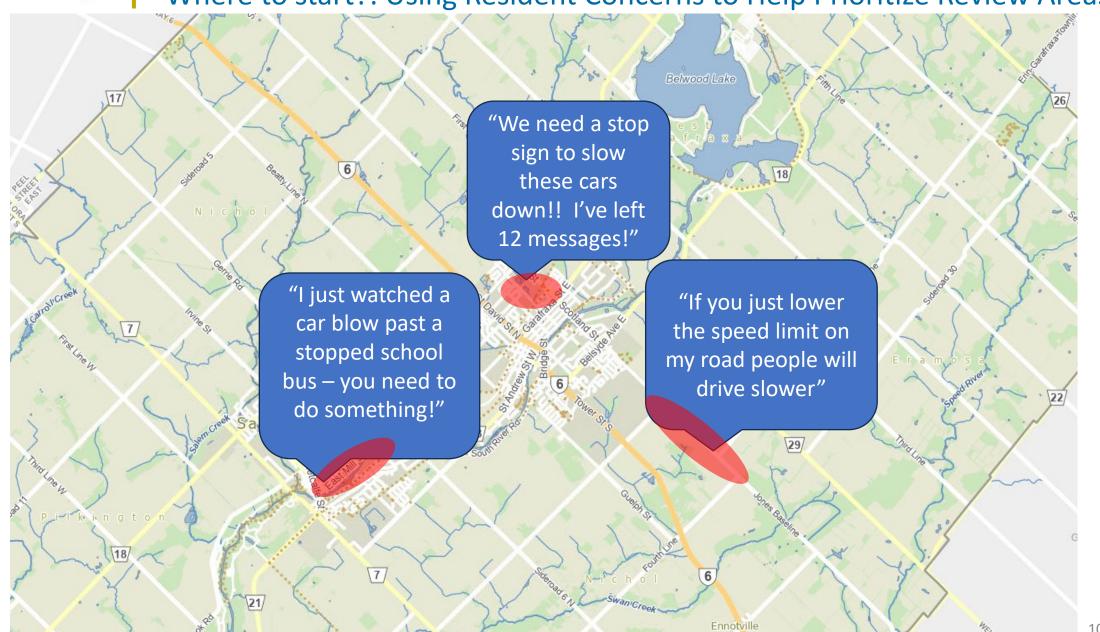


A process and workplan for reviewing speed limits, assessing speeding concerns, and implementing effective speed reduction measures in urban and rural areas

- ✓ Data-driven, proactive
- ✓ Consistent methodology
- ✓ Considers a range of potential speed reduction measures
- ✓ Continuous process with annual reporting
- ✓ Endorsed by Council

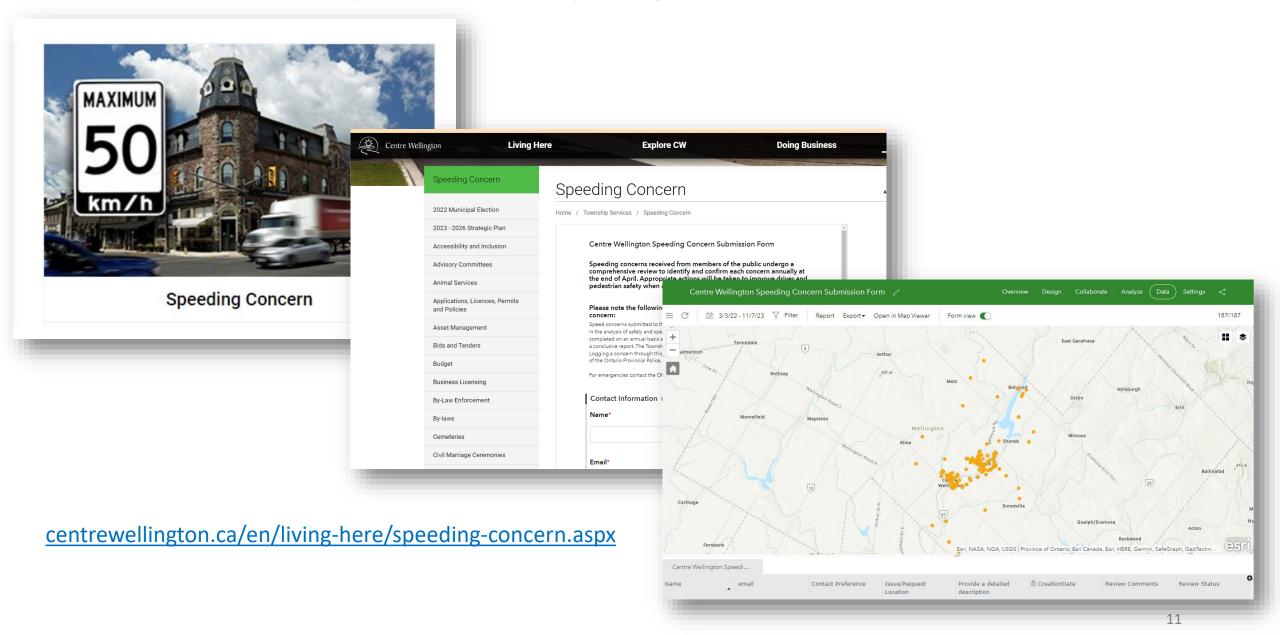


#### Where to start?: Using Resident Concerns to Help Prioritize Review Areas





# Online Speed Concern Reporting Tool for Residents





# Three (easy!) steps:

- 1. Review Current Speed Limit
- 2. Identify and Confirm Speed Concern

3. Apply Effective Speed Reduction Measures



#### **Step 1: Reviewing Current Speed Limits**

# Review current posted speed limit by considering:

Transportation Association of Canada (TAC) guidelines



(Road Design Factors - Horizontal Alignment, Vertical Alignment, Average Lane Width, Average Lane Width, Pedestrian Exposure, Cyclist Exposure, Road Surface, Number of Intersections with Public Roads & Private Driveways, On-Street Parking)

85th percentile of observed traffic speed and drive test

What is speed most drivers feel comfortable driving?

Collision history

Is there a pattern of traffic related incidents?

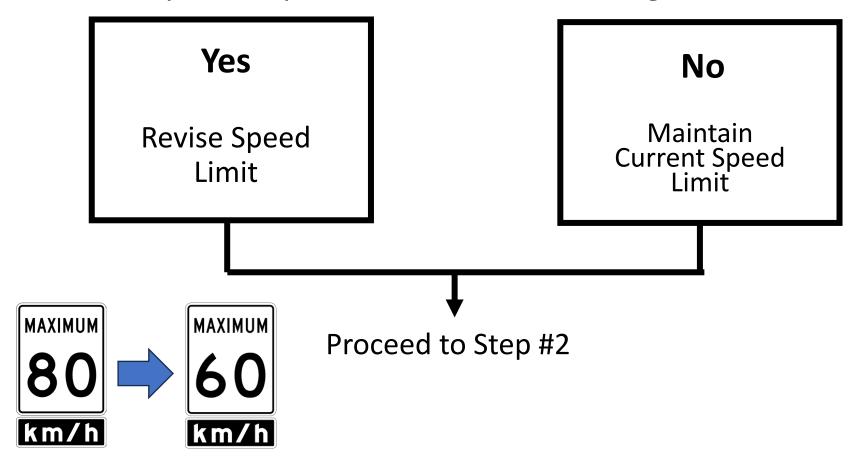
Neighbouring land use

(School, Hospital, Trail System, Daycare – etc.)



### **Step 1: Reviewing Current Speed Limits**

Does the initial speed review suggest the current posted speed limit should be changed?





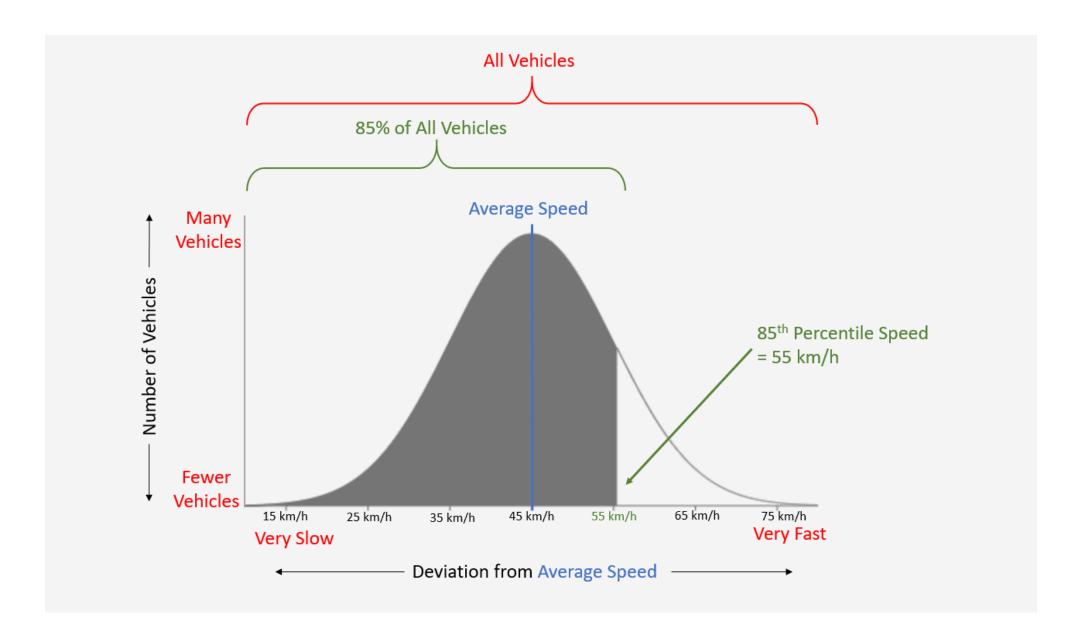
#### Step 2: Confirming Speeding

Identify and confirm speeding presence by considering:

- Public concern and observations
- Staff experience
- Traffic & Speed data
- 85th Percentile is 10 km/h over speed limit (Urban roads)
- 85th Percentile is 15 km/h over speed limit (Rural roads)

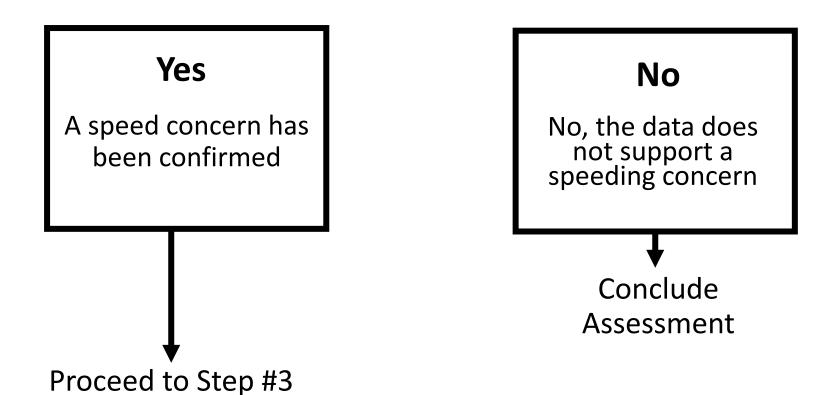


# 85<sup>th</sup> Percentile Speed



### Step 2: Confirming Speeding

Has a speed concern been identified and confirmed?





# How do we change driver behaviour?

# **Changing Physical Environments**

# **Changing Attitudes**and Behaviours

# **Enforcement**









# Step 3: Speed Reduction Measures

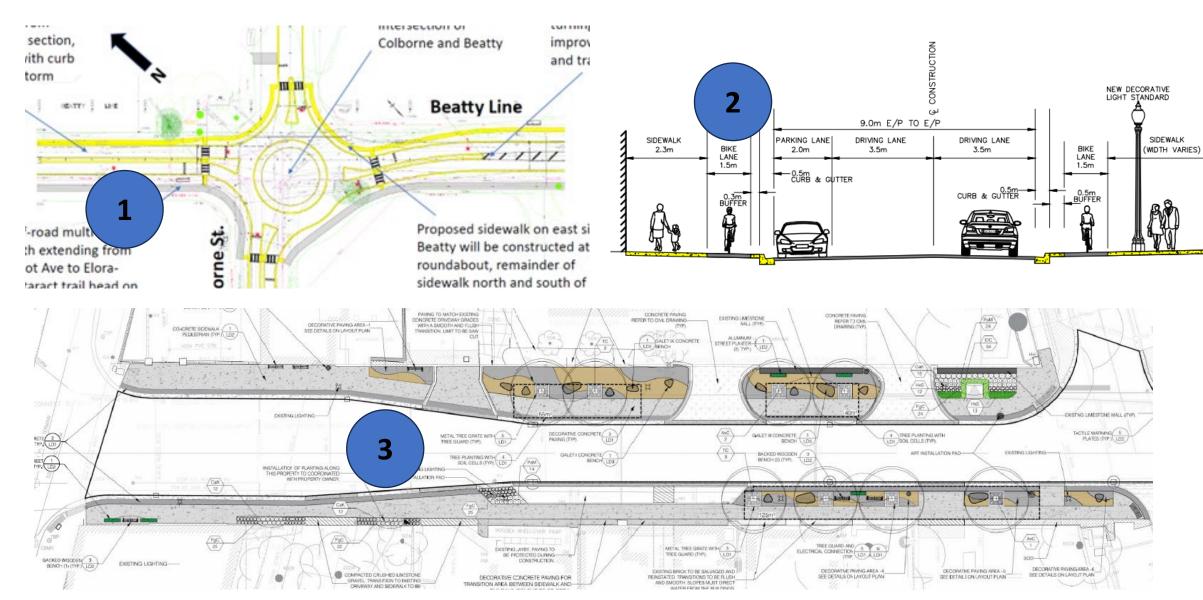
<b>Short Term Measures</b>	Long Term Measures
Bollard – Speed Advisory	Capital Projects – Geometric mods
Speed Display Signs	Photo Radar
Speed Humps	Community Safety Zone
Enforcement	Education & Outreach





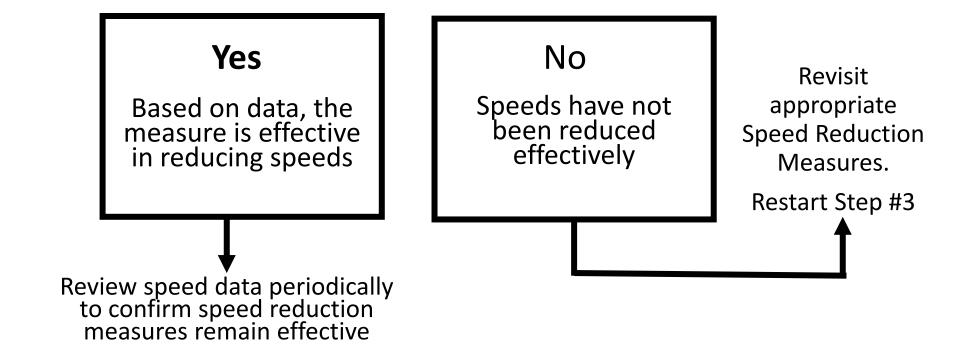


# **Design Examples**



# Step 3: Speed Reduction Measures

Has an effective method of reducing traffic speed been selected?





# **Lessons Learned**





- Online reporting tool is a hit!
  - Saves staff time receiving and responding to concerns
  - Effective way to track concerns and identify problem areas
- Making it a continuous process with annual reporting allows us to monitor effectiveness over time
  - Speed reduction recommendations are considered as part of the annual budget process
- Good data is key to identifying problem areas and recommending effective speed reduction measures
  - Annual traffic counts
  - Speed radar dataloggers
  - Obtaining and sharing information with law enforcement

Early data and feedback from the community suggests that the policy is having a positive impact on road safety in the Township

