



Edmonton's Journey to Vision Zero



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Executive Director

Edmonton Police Commission
22 June 2017

City Operations
Parks & Roads Services
Traffic Safety

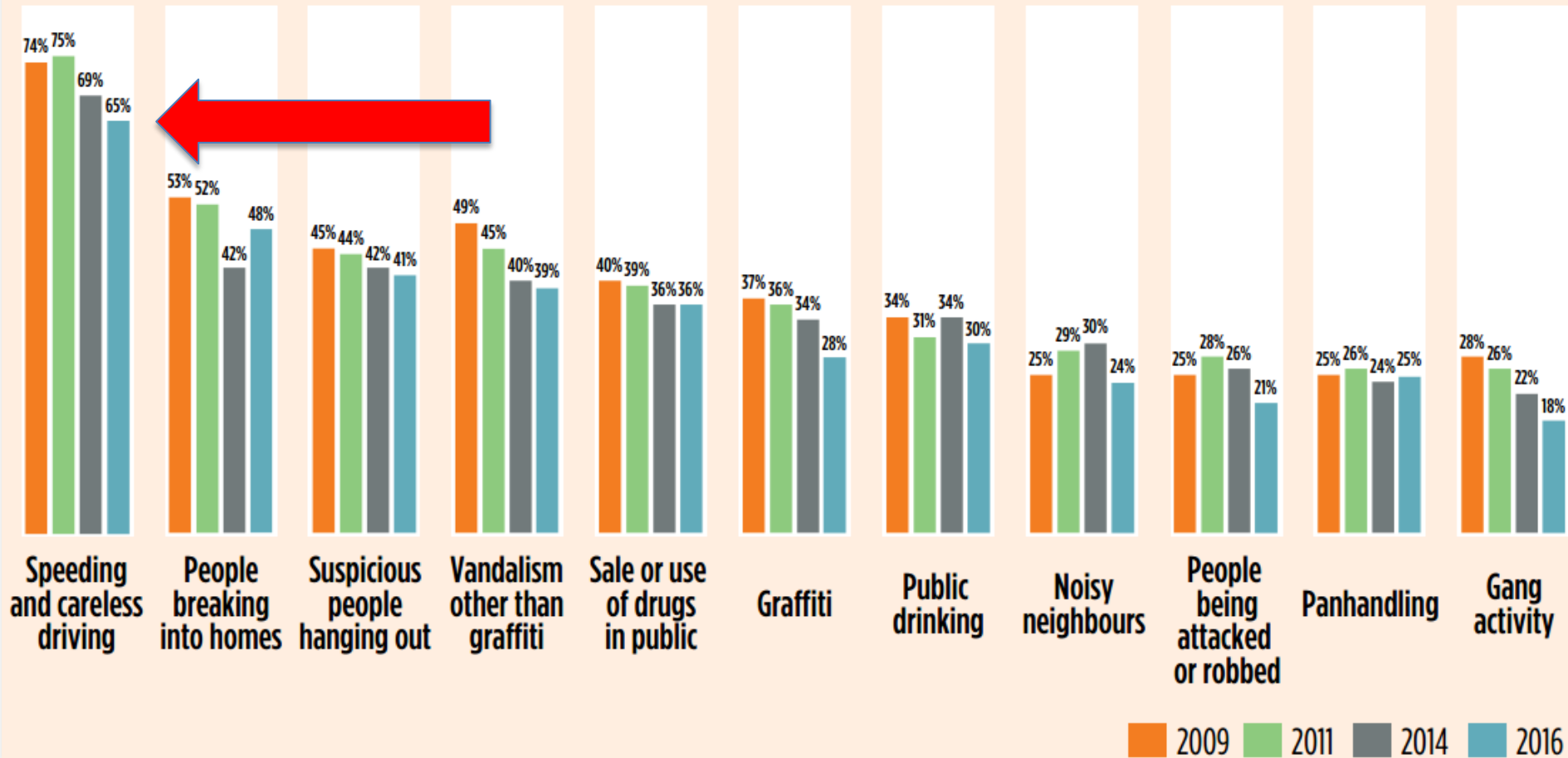
Edmonton

OUTLINE

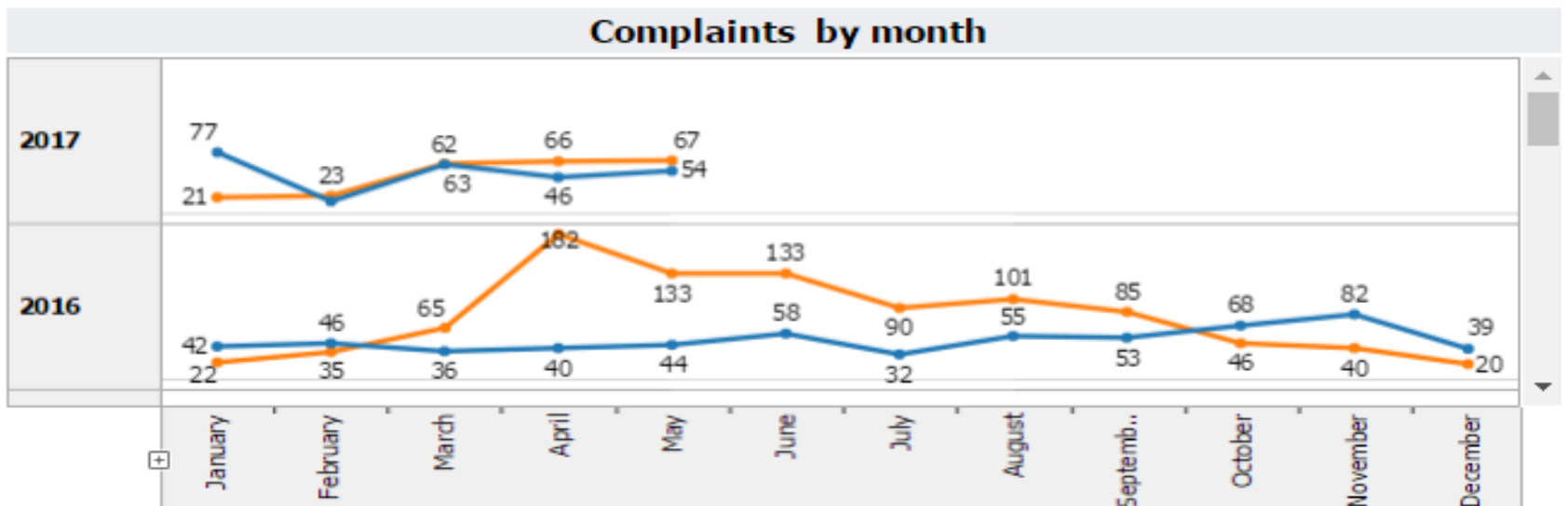
- ☐ **Citizen Survey and Traffic Safety Complaints**
- ☐ **Vision Zero**
- ☐ **Traffic Safety Engineering**
- ☐ **Enforcement/Speed Management**
- ☐ **Education**
- ☐ **Engagement**
- ☐ **Progress Outcomes**
- ☐ **Upcoming Events**

CITIZEN SURVEY

Neighbourhood Crime and Disorder Perceptions – Some or Big Problem (2009-2016)



PUBLIC COMPLAINTS



■ Non-speed related
■ Speed related

To report a concern about speeding,

Call: **780-495-0371** or email: **speeding@edmonton.ca**

Website: **https://www.edmonton.ca/transportation/on_your_streets/speeding.aspx**

VISION ZERO

- **Road collisions are largely preventable and predictable**, and therefore suitable countermeasures and actions can be developed to reduce collisions, injuries and fatalities.
- **It can never be ethically acceptable that people are killed or seriously injured** when moving within the road transport system*
- **Safety cannot be traded for mobility.** Mobility therefore should follow from safety (i.e., mobility becomes a function of safety) and cannot be obtained at the expense of safety*



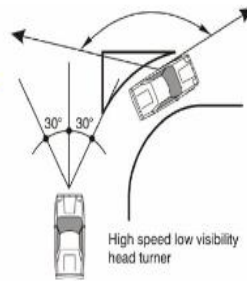
Zero Fatalities & Serious Injuries



* Tingvall, C. and Haworth, N. Vision Zero - An ethical approach to safety and mobility. 6th ITE International Conference Road Safety & Traffic Enforcement: Beyond 2000, Melbourne, 6-7 September 1999. https://www.researchgate.net/publication/264873849_Vision_Zero_-_An_ethical_approach_to_safety_and_mobility

TURNING INNOVATION INTO POLICY: MOVING FROM REACTIVE TO PROACTIVE

Geometric modifications to existing right-turn cut-offs at major intersections

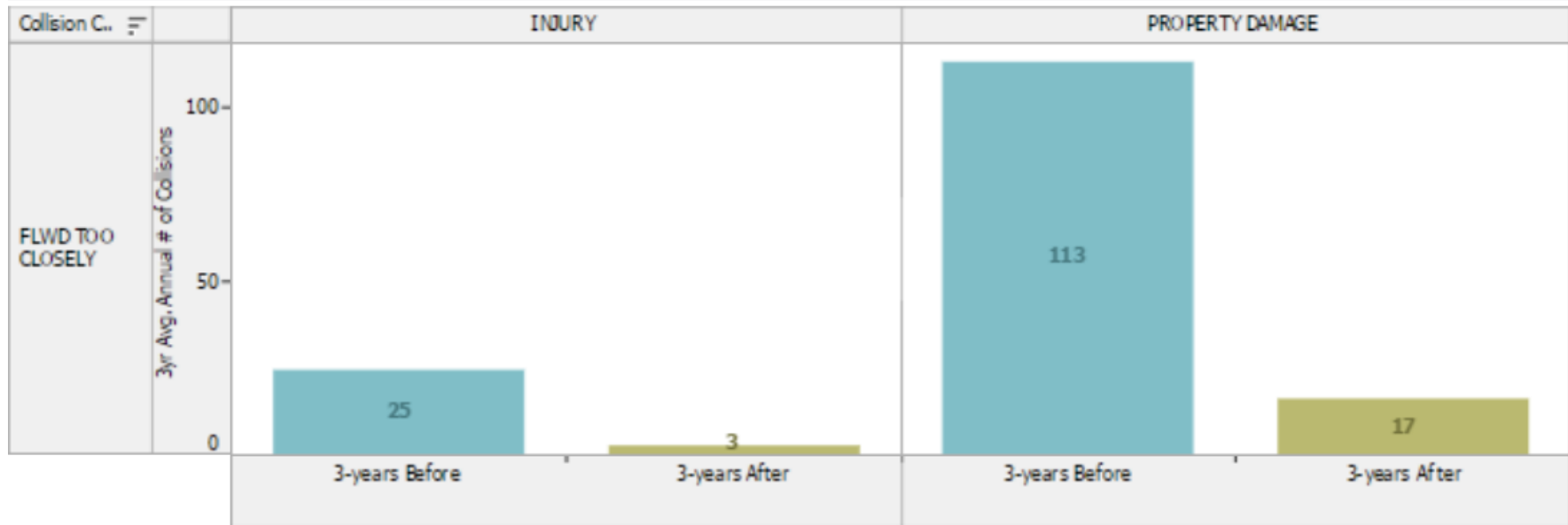


30%

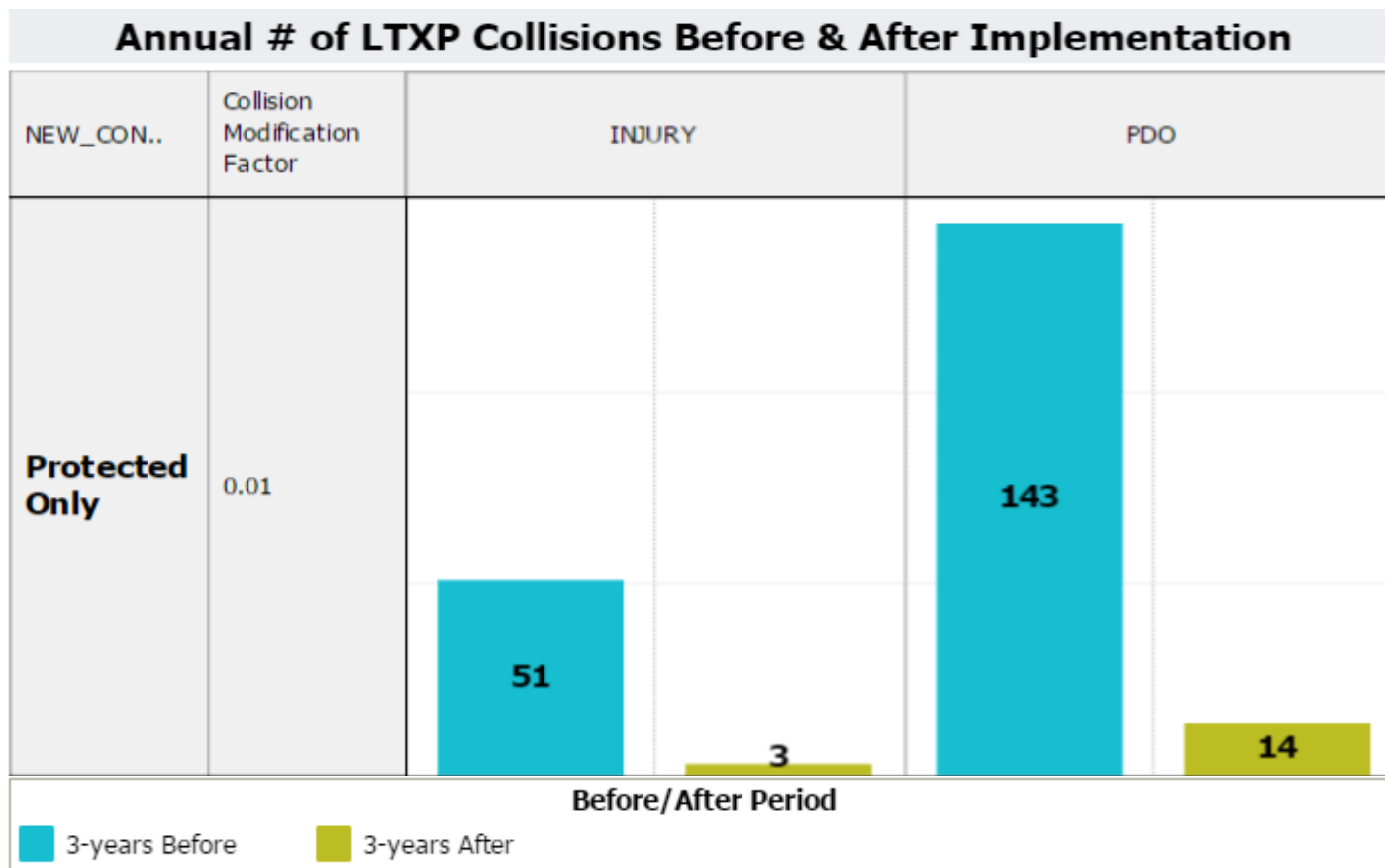


- Implemented in 26 locations since 2009
- Collision Reduction: 84%
- Injury Collision Reduction (minor only; no serious injury collision): 88%
- Created Right-Turn Design Matrix and policy
- # of collisions reduced: 605

Annual # of Right Turn Bay FTC Collisions Before & After Implementation



ENGINEERING IMPROVEMENTS: PROTECTED/PROHIBITED LEFT TURN SIGNAL PHASE



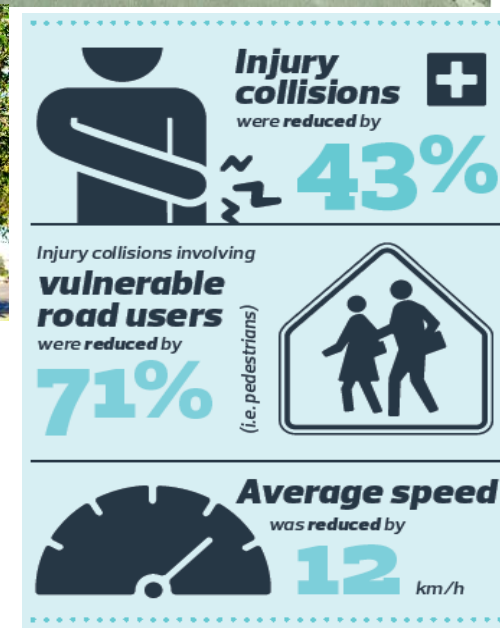
- Protected/Prohibited left turn signal phases
 - Implemented in 74 locations since 2009
 - Collision Reduction: 91%
 - Serious Injury Collision Reduction: 89%
 - Minor Injury Collision Reduction: 94%
 - # of collisions reduced: 846

SCHOOL ZONES SAFETY ANALYSIS

School Safety Upgrades:

- 2016: 13
- 2017: 24
- NHR: 6
- New Schools: 16
- Junior High School Zones: 24 (new)

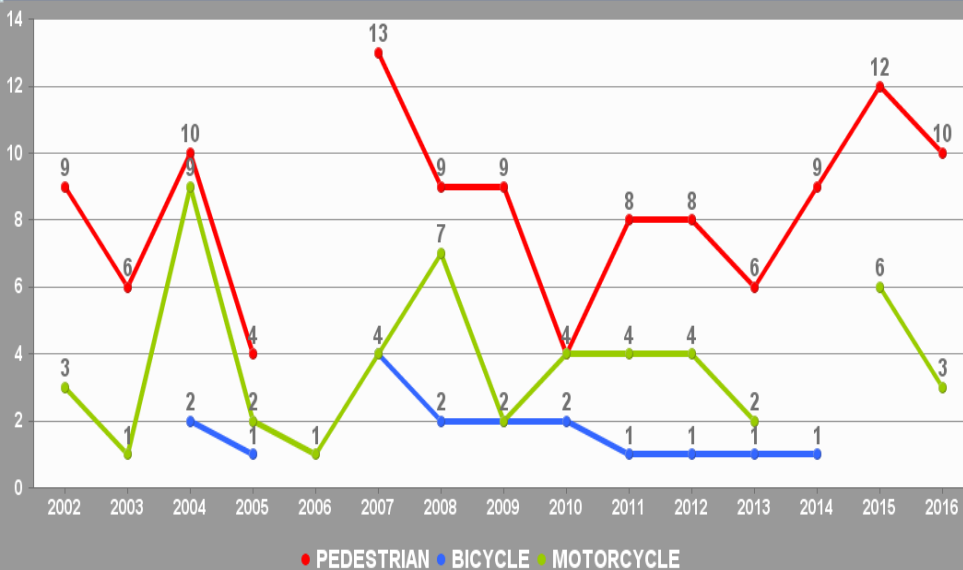
24 schools are scheduled to be upgraded in 2018



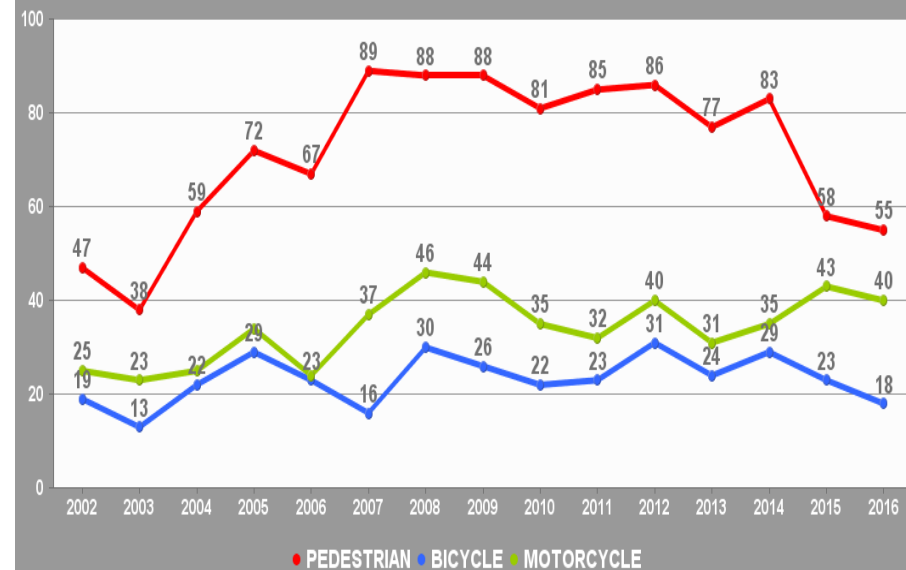
- One school pickup / drop-off zone has been implemented every year starting 2016

VISION ZERO KPI: VULNERABLE ROAD USERS

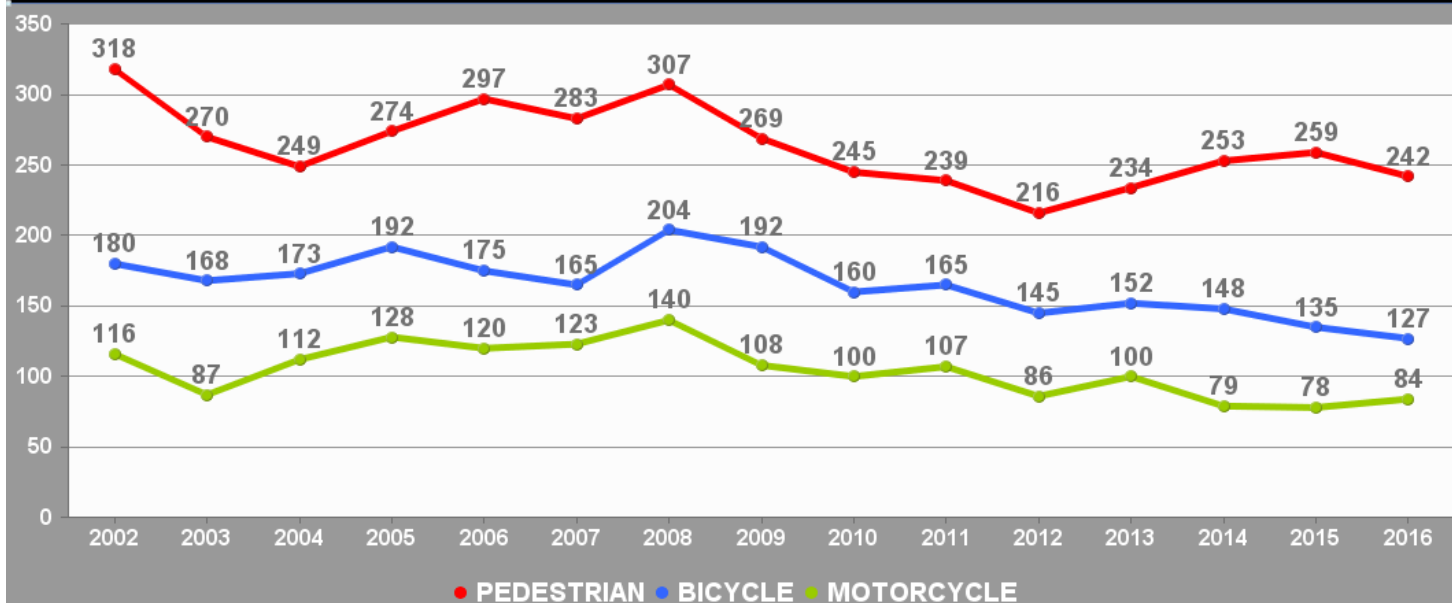
NUMBER OF FATALITIES



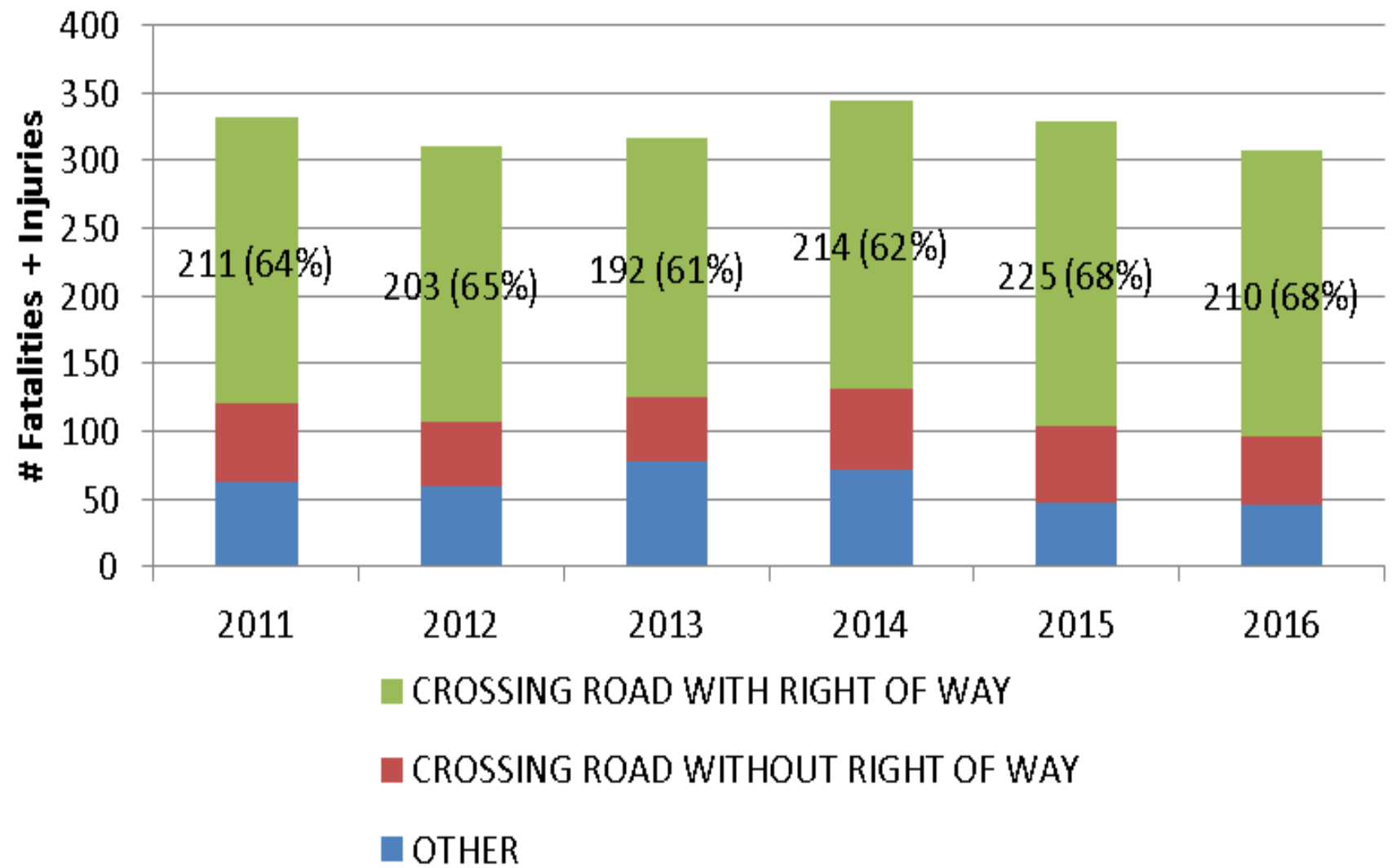
NUMBER OF SERIOUS INJURIES



NUMBER OF MINOR INJURIES



PEDESTRIAN COLLISIONS



PEDESTRIAN COLLISIONS

Total Pedestrian Collisions (2012-2016): 1, 521

Intersection: 1020 (67%)

Signal Light: 479 (47%)

Marked X-walk: 179 (18%)

No-Control : 140 (14%)

Stop Sign: 95 (9%)

Yield Sign: 45 (4%)

Ped Amb. Flashers: 42 (4%)

Ped Act. Signal: 33 (3%)

Others: 7 (1%)



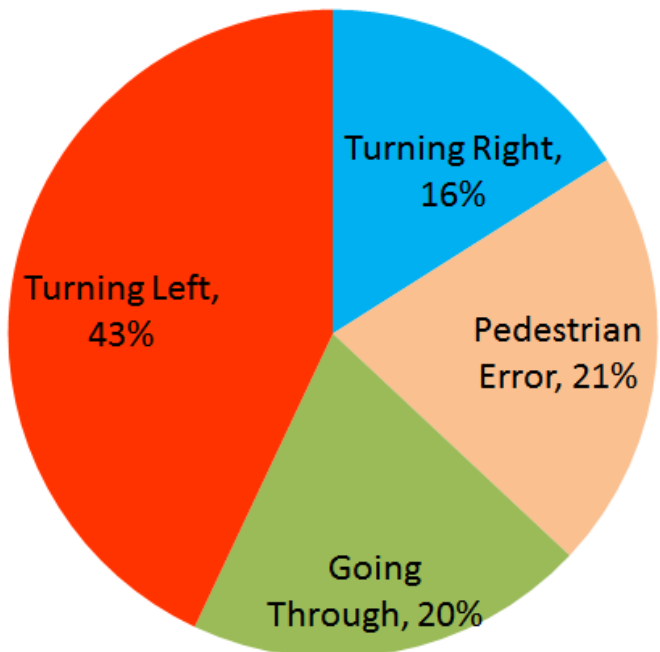
Midblock: 455 (30%)

No Control: 380 (84%)

Marked X-walk: 38 (8%)

Others: 37 (8%)

Unknown: 46 (3%)



PEDESTRIAN COLLISIONS: EDUCATION



Dynamic Message Sign (DMS) impacts during display period:

- 56% Collision reduction
- 2.8% Average speed reduction

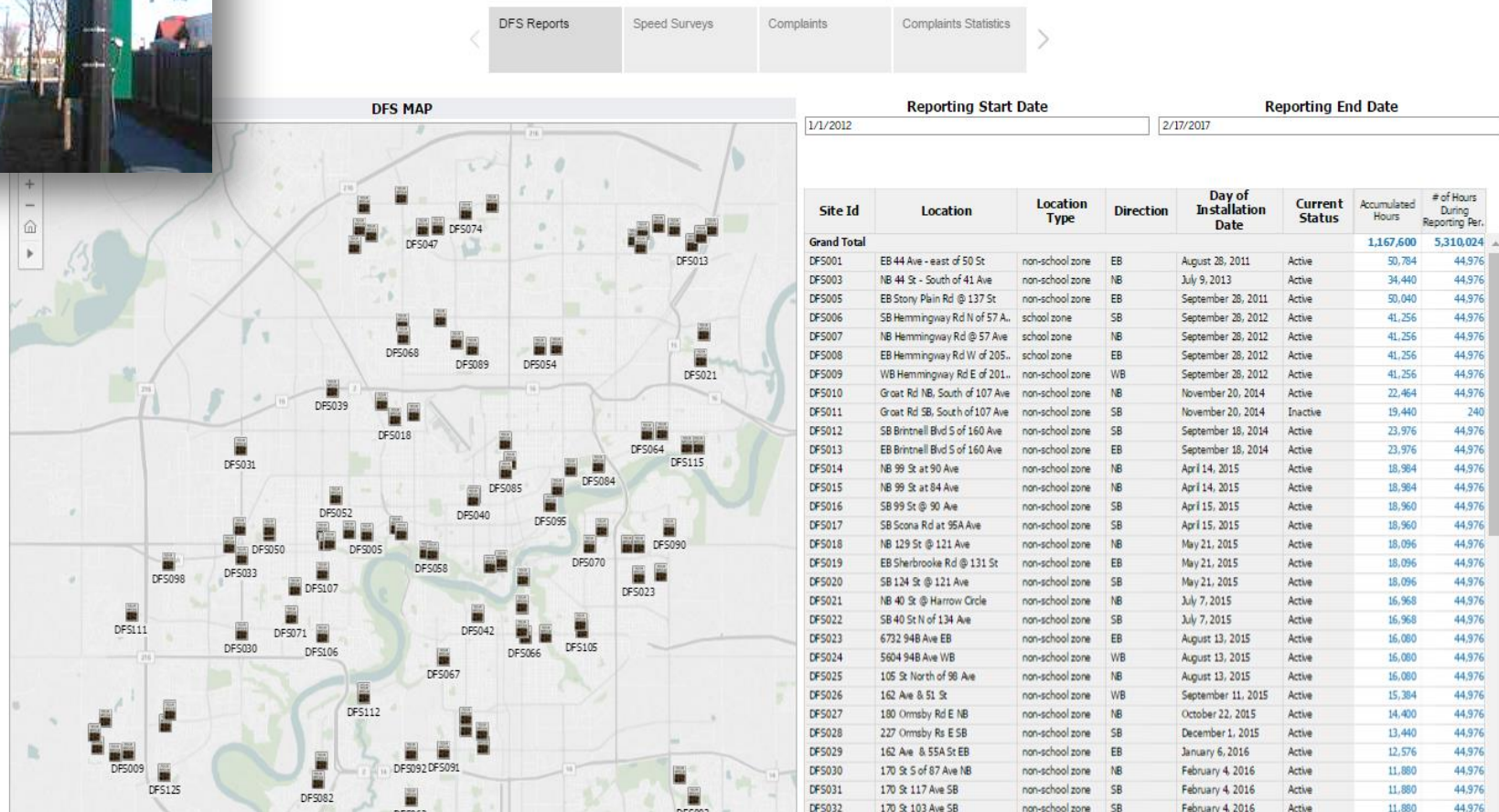


DRIVER FEEDBACK SIGNS (DFS)



- Average speed reduction: 6.34 km/h - 10.91 km/h
- Over 140 DFS currently

Office of Traffic Safety Speed Management Dashboard



INTERSECTION SAFETY CAMERA

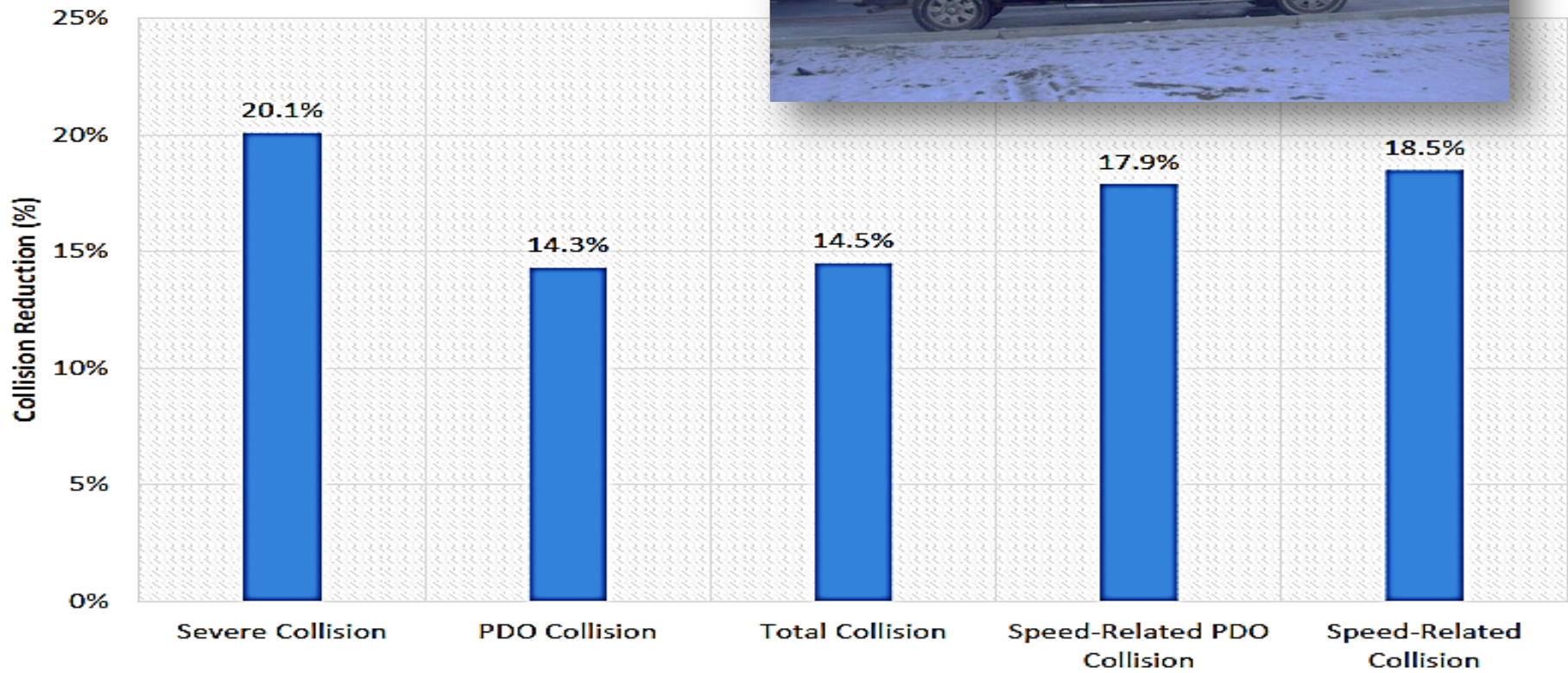


- **Installed at 50 intersection approaches**
- **Collision reduction:**
 - Total collisions: 10%
 - Fatal and injury collisions: 12%
 - Red-light running collisions: 21%

MOBILE PHOTO ENFORCEMENT

Enforcement Locations:

- High Collision Locations
- High Speed Locations
- School Zones
- Construction Zones
- High Risk Pedestrian Crossing
- High Complaint Locations



EDUCATION

Voices of Traffic Safety



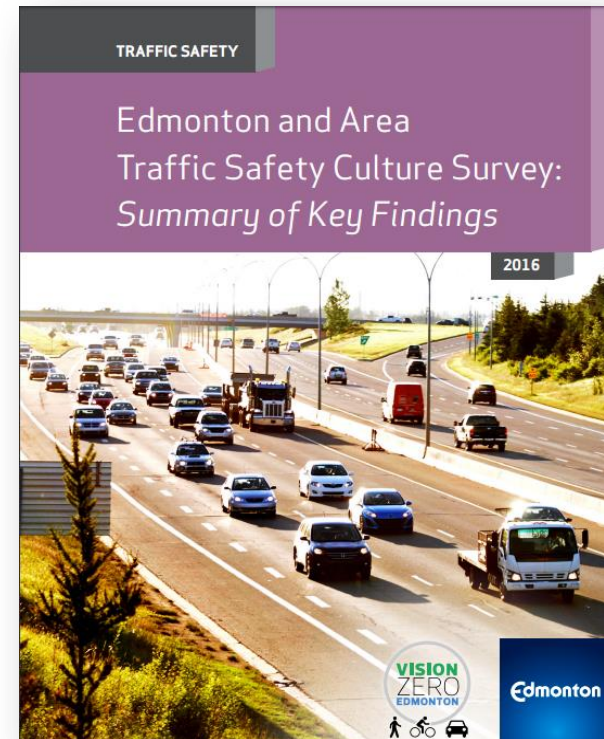
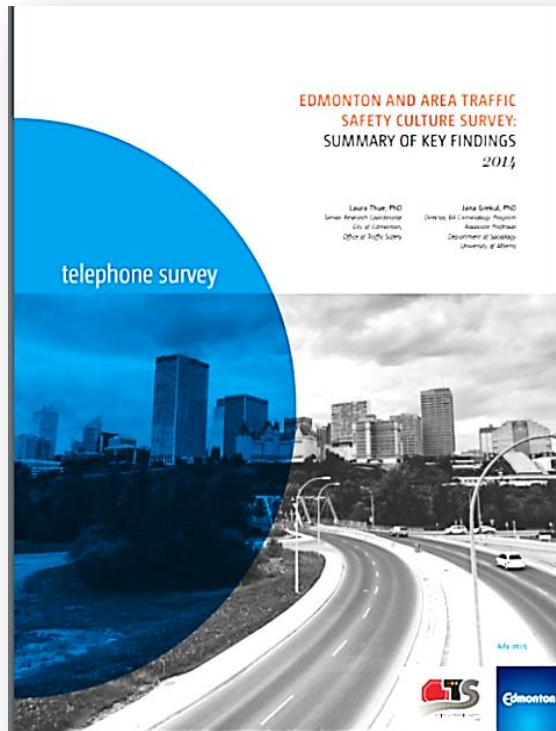
Blog

YouTube



ENGAGEMENT

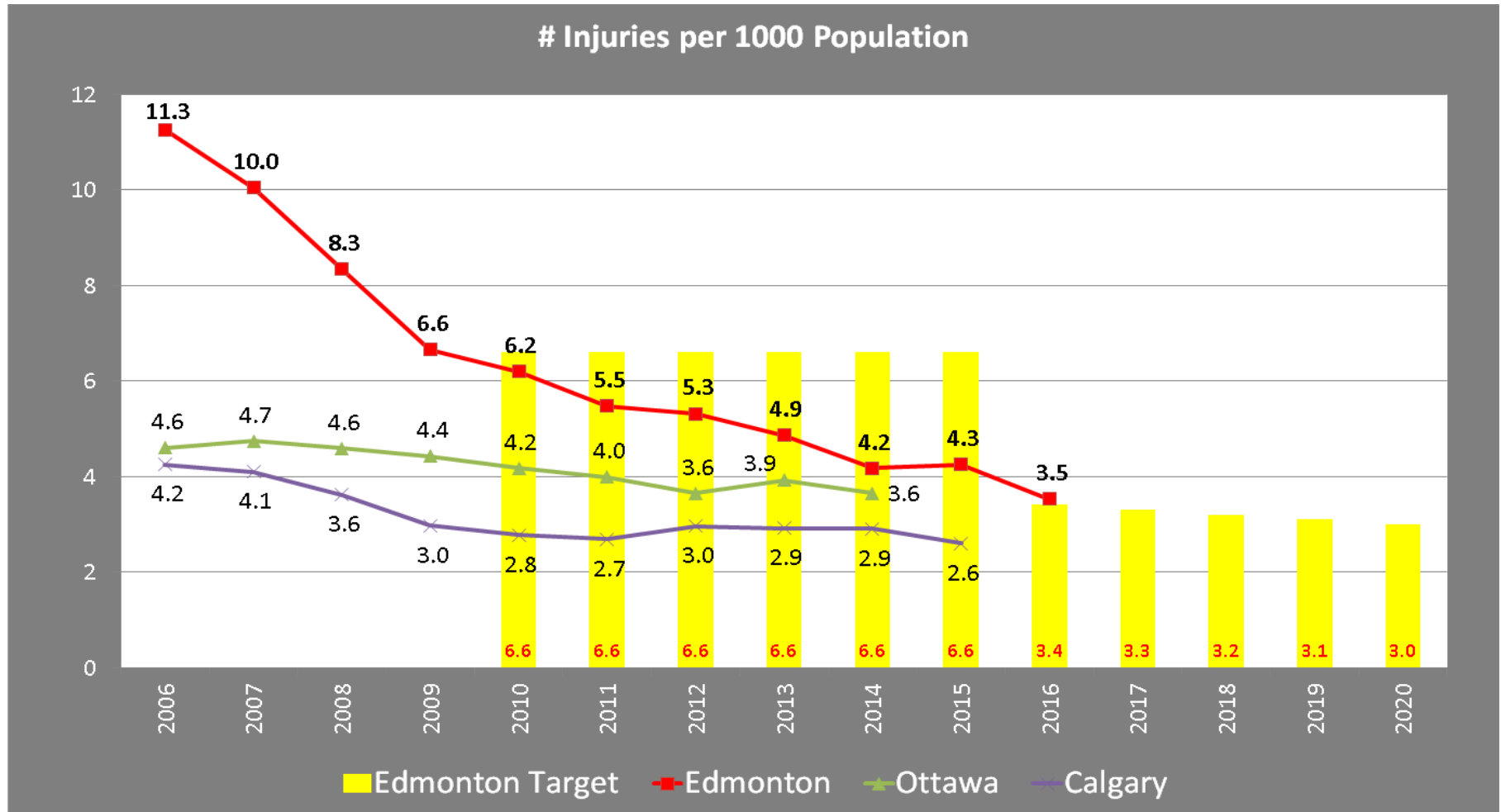
Traffic Safety Culture Survey



- 2016 results:
- ❖ 65.0% believe they are better drivers than most
 - ❖ 81.8% consider drivers driving after drinking alcohol to be a very serious threat
 - ❖ 61.9% consider drivers driving after using marijuana to be a very serious threat

PROGRESS OUTCOMES

- The number of collision injuries has decreased 60% from 8,221 in 2006 to 3,305 in 2016
- The injury rate has decreased 62% from 11.3 in 2006 to 3.5 in 2016

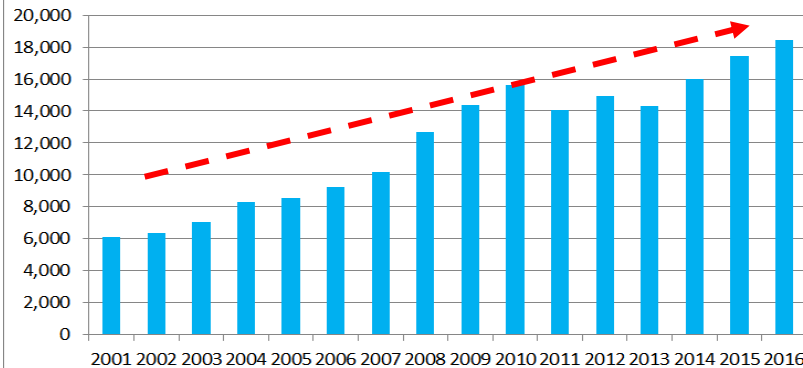


CAN WE ACHIEVE SAFER ROADS?

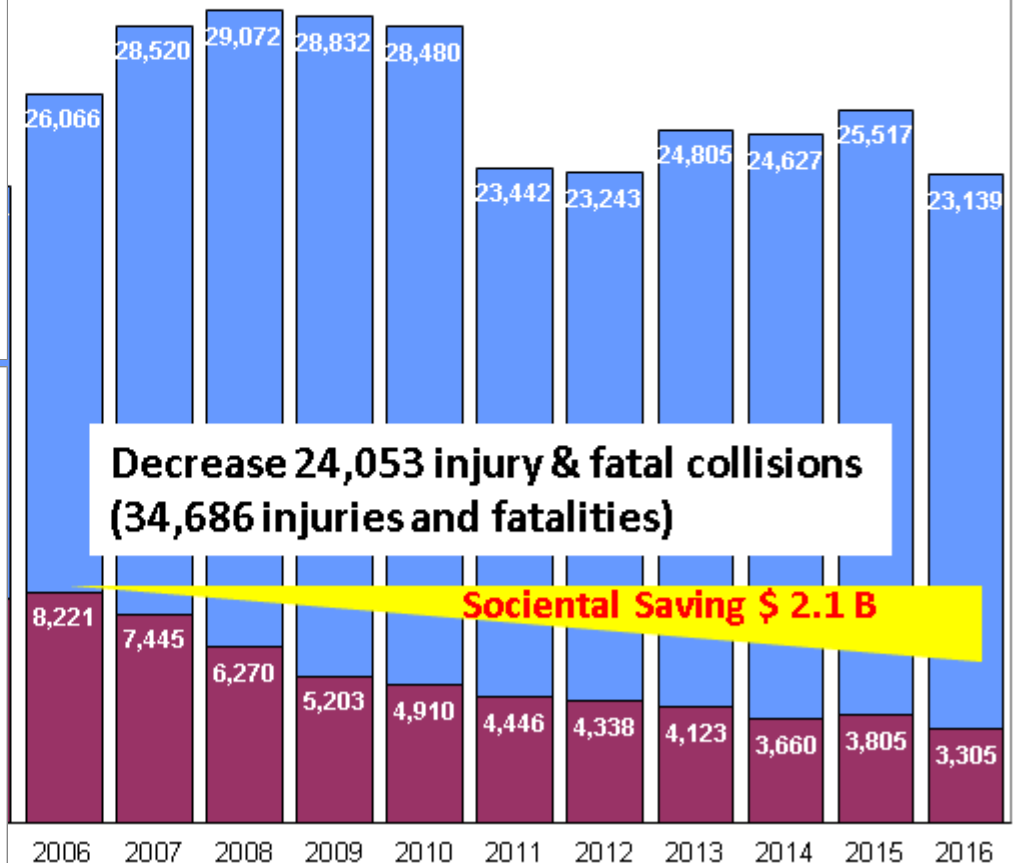
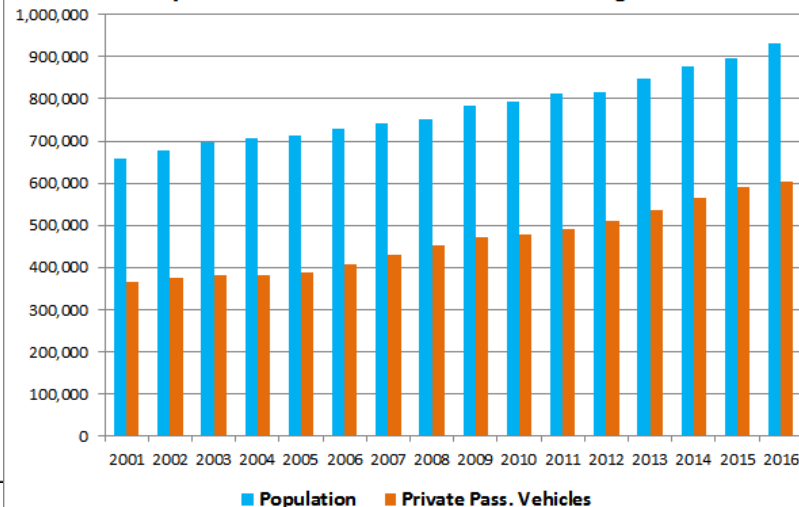
Collisions in Edmonton 1997-2016

■ Total Collisions ■ # Injuries

Number of Private Motorcycles



Population & Number of Private Passenger Vehicles



Upcoming Council Initiatives

- Playground Zone Speed Limits
- Public Engagement on Residential Speed Limits

UPCOMING EVENTS



9th International Conference
on Urban Traffic Safety

trafficsafetyconference@edmonton.ca



SEE YOU IN BANFF



4th International Conference
on Transportation Information & Safety

<http://ictis.whut.edu.cn/>

ictis@whut.edu.cn



**Joint Conference on Transportation
Safety, Banff, Alberta, Canada,
August 8-10, 2017**

Registration/exhibit/sponsorship:

<http://www.urbantrafficsafetyconference.com/>

City of Edmonton



Wuhan City



22nd ICADTS CONFERENCE



22nd International Council of Alcohol, Drugs and Traffic Safety (ICADTS) Conference

August 18th to 21st, 2019

Edmonton, Alberta Canada

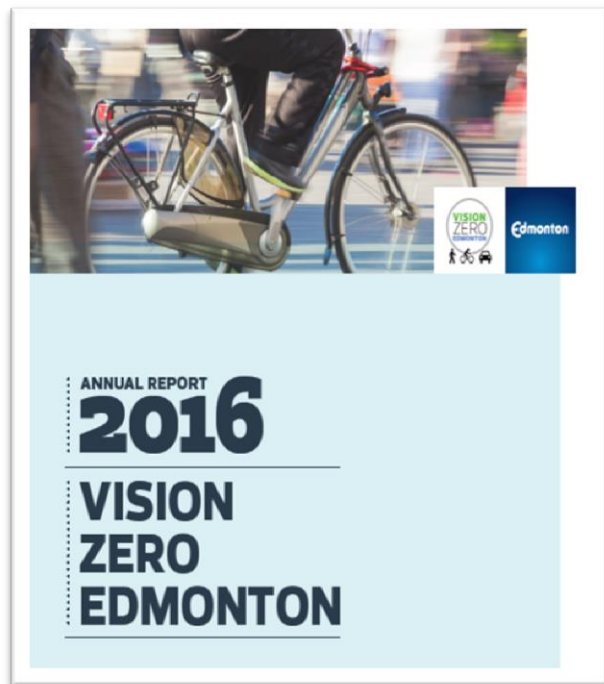


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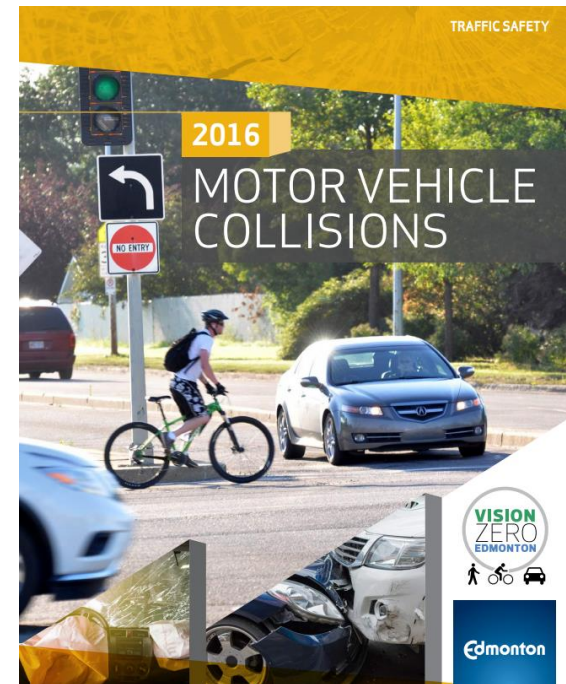


Edmonton's Journey to Vision Zero

Need more information?



www.edmonton.ca/transportation/RoadsTraffic/VisionZero_2016-Annual-Report.pdf



<https://www.edmonton.ca/transportation/RoadsTraffic/2016MVCAnnualReportsm.pdf>

Thank You

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