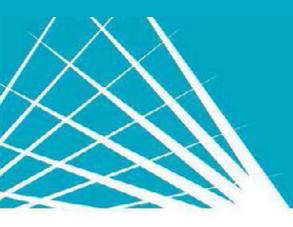
THE WAY WE MOVE



Transportation Committee Meeting

Traffic Safety Strategies & Councillor Inquiries November 13, 2014

TRANSFORMING EDMONTON

BRINGING OUR CITY VISION TO LIFE





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The Problem

2006								
# Injuries per 1000 Population	# Injuries	Population	# Injuries per 1000 Population					
Edmonton	8,221	741,028	11.1					
Toronto	16,400	2,607,637	6.3					
Hamilton	2,427	504,559	4.8					
Calgary	4,445	991,759	4.5					
Ottawa	3,620	870,700	4.2					
Montreal	6,326	1,854,442	3.4					
Vancouver	1,374	578,041	2.4					

2012								
# Injuries per 1000 Population	# Injuries	Population	# Injuries per 1000 Population					
Torento	14,812	2,/91,140	5.3					
Edmonton	4,338	817,498	5.3					
Ottawa	3,403	935,050	3.6					
Calgary	3,255	1,120,225	2.9					
Hamilton	1,440	535,234	2.7					
Montreal	5,321	1,991,200	2.7					
Vancouver	1,452	666,517	2.2					

344

THE AVERAGE NUMBER OF PERSONS INJURED ON OUR ROADS EVERY MONTH – THE EQUIVALENT OF ~ 10 FULL ETS BUSLOADS OF PASSENGERS





















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The Difference 5 km/h Makes



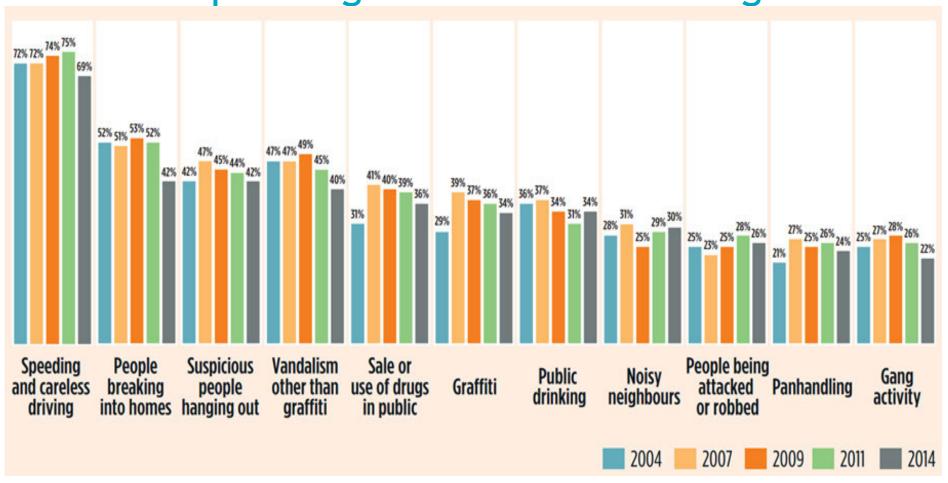
https://www.youtube.com/watch?v=yAnNXcaBnrl

Road Safety Strategy - 5 E's of Traffic Safety



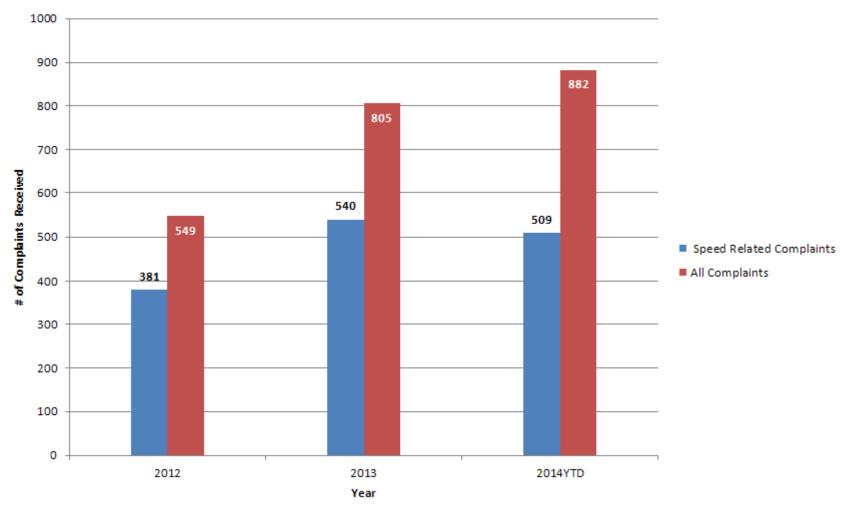
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Speeding and Careless Driving

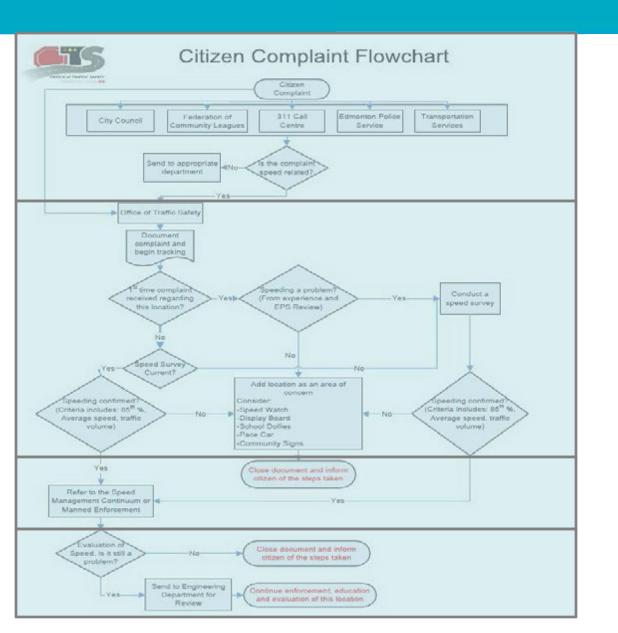


Office of Traffic Safety Complaints

of Speed Related Complaints vs All Complaints



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Speed Related Complaint Is Received



Speeding Concern is Validated & Assessed

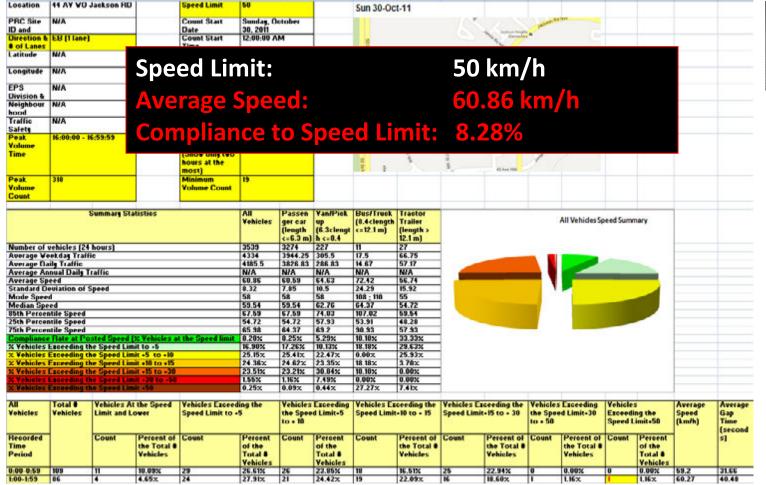


Speed Management Continuum is Consulted

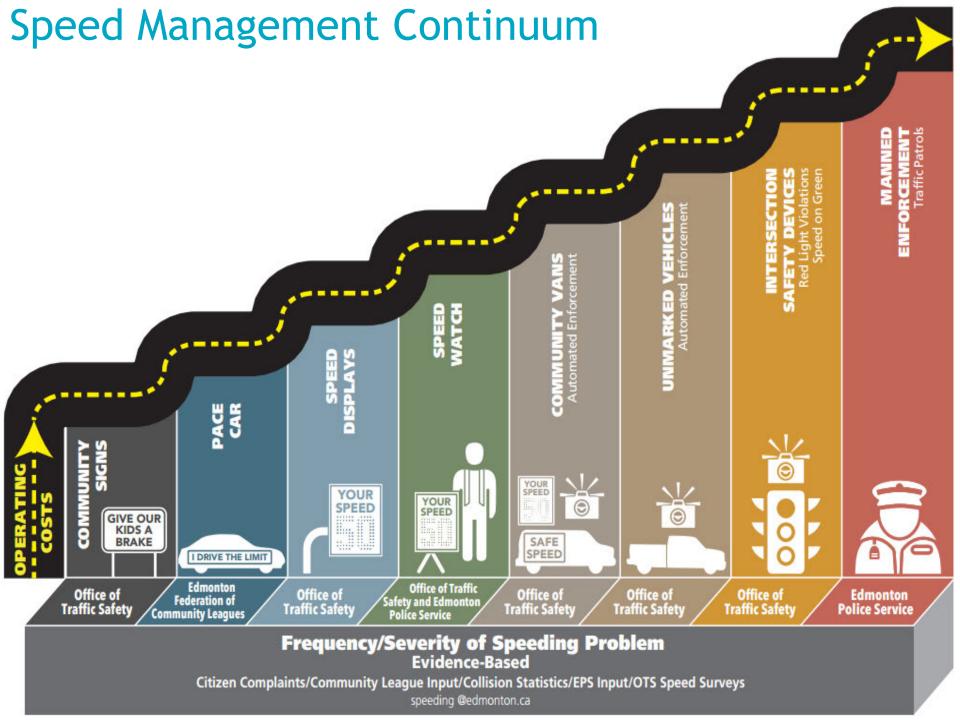
Countermeasure Is Implemented & Evaluated

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Speed Survey Report







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Speed Management Continuum











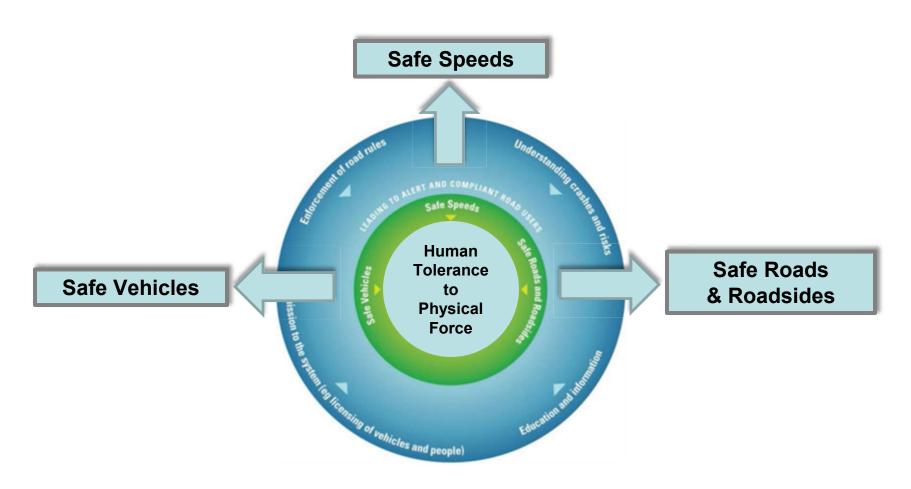




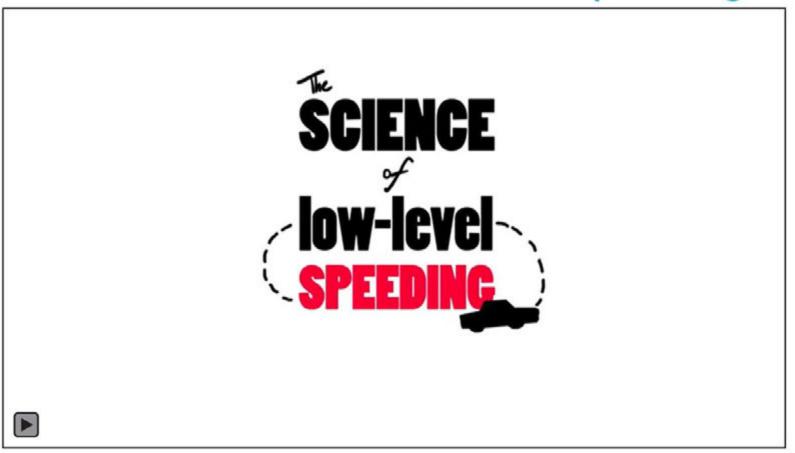


The Evidence on Speed and Speeding

Speed is at the core of the Safe System



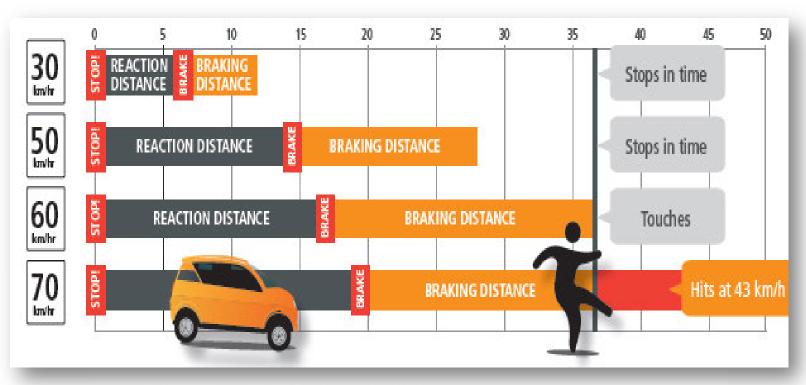
The Science of Low Level Speeding



Speed Management - Why Focus on Speed?

Stopping Distance at different speeds (including reaction time of approximately 1 second)

Speed Increases Stopping Distance Stopping Distance (metres) — Dry Pavement Conditions



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Mistakes



https://www.youtube.com/watch?v=bvLaTupw-hk



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Education



Jackson Heights



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MAXIMUM

30

08:00 - 16:30 SCHOOL DAYS



http://www.edmonton.ca/transportation/traffic_safety/why-30.asp.





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Speed Management - Performance Indicators

Community speed awareness sign locations*



182 locations

Traffic safety inserts mailed to violators*



439,577 inserts

Speed trailer deployment hours*



36,816 hours

Driver feedback sign hours*



60,384 hours



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Enforcement

Community Vans



Unmarked Vehicles



Intersection Safety Devices



Digital Photo Laser



Manned Enforcement





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Automated Enforcement - Key Organizations

Organization	Roles & Responsibilities						
PROVINCIAL GOVERNMENT	Responsible for auditing the Automated Enforcement Program through Provincial Legislation						
EDMONTON POLICE SERVICE	 As the local police authority, EPS is the enforcement agency They retain legislative oversight for the program They approve all fixed and mobile locations for automated enforcement 						
CITY OF EDMONTON TRAFFIC OPERATIONS	 Responsible for recommending speed limits which are approved by Council 						
TRAINED PEACE OFFICERS	 Carry out all automated enforcement as approved by the Solicitor General 						
OFFICE OF TRAFFIC SAFETY	 Apply an evidence-based approach to identify locations that would benefit the most from enforcement Enforces locations approved by EPS Manage the review process for the Automated Enforcement Program 						



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Just Slow Down



https://www.youtube.com/watch?v=H5EyOnccJLg



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Engineering

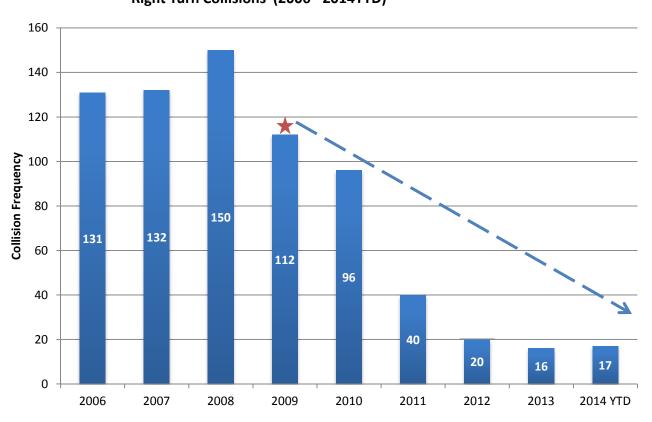




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Right Turn Countermeasure

Right Turn Collisions (2006 - 2014YTD)



Overall average collision reduction: **75%**

Right turn was redesigned at 18 approaches
In the City of Edmonton

 \star

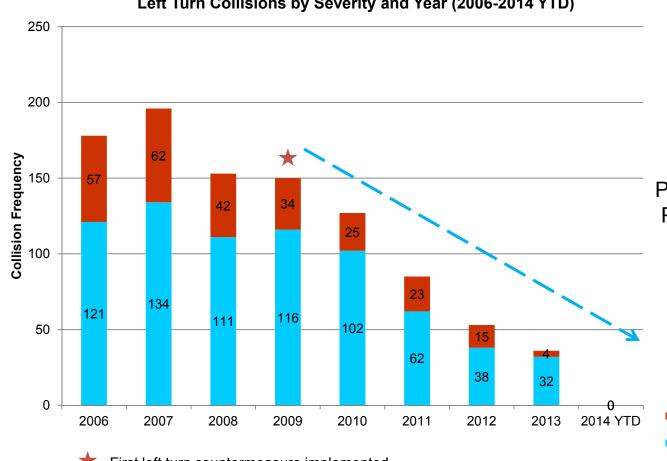
First right turn redesign countermeasure implemented



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Left Turn Countermeasure

Left Turn Collisions by Severity and Year (2006-2014 YTD)



Overall average collision reduction: 99%

Protected/Prohibited Left Turn Phasing was implemented at 52 approaches In the City of Edmonton

Injury

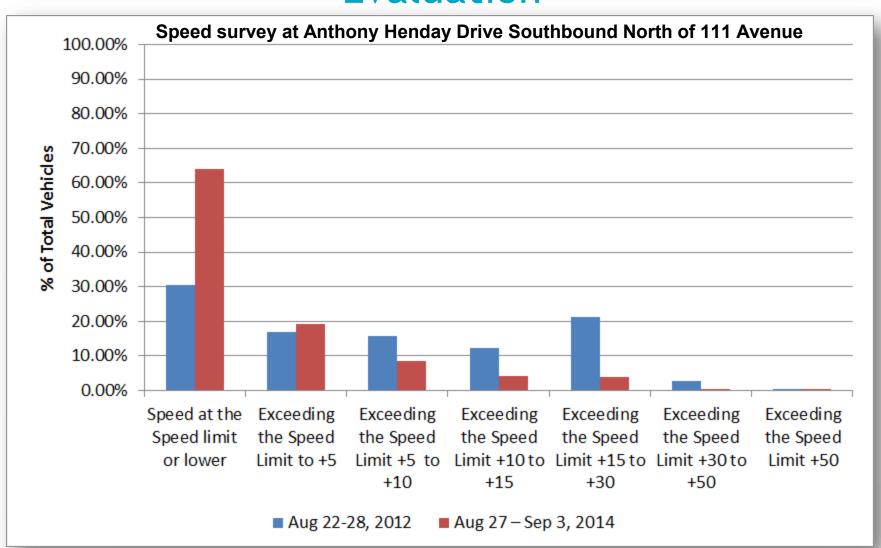
PDO

First left turn countermeasure implemented



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Evaluation





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Impact of Driver Feedback Sign

BEFORE

Speed Limit: 50 km/h

Average Speed: 60.86 km/h

Compliance to Speed Limit: 8.28%

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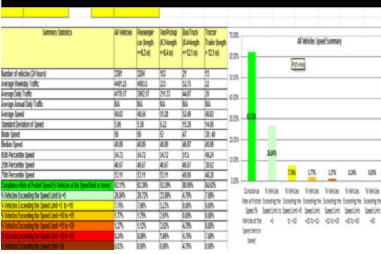


AFTER

Speed Limit: 50 km/h

Average Speed: 49.63 km/h

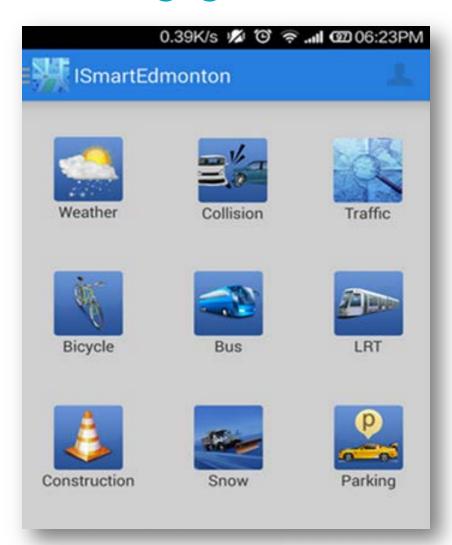
Compliance to Speed Limit: 62.11%





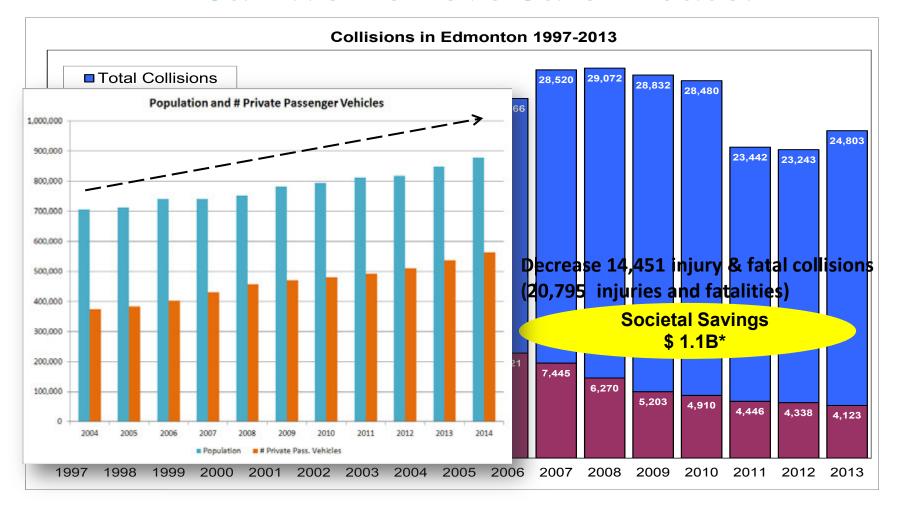
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Engagement



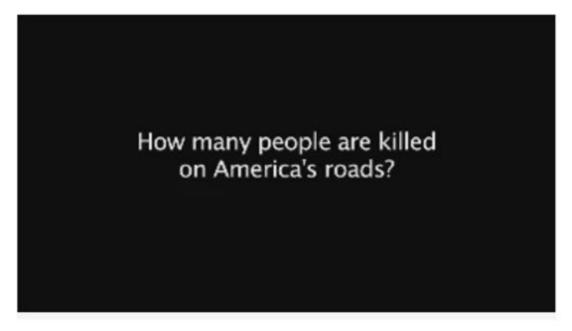
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Can We Achieve Safer Roads?





Man on the Street



http://vimeo.com/41360163

SAFE ROADS BEGIN WITH YOU US

Looking Ahead

Towards Zero Fatalities

- **☑** An integrated approach that includes proactive road safety engineering
- ✓ Increased educational initiatives
- **Efficient and effective preventive enforcement**
- ▼ Two way public engagement
- **☑** Rigorous evidence based evaluation