

# CARSP Conference

## Risky Driving Behaviour and Road Safety

Monday May 27<sup>th</sup> 2019 09:00 am

### *Using Technology to Combat Risky Driving*

Trevor Hall

Road Safety Support

Saving lives delivering justice



Trevor Hall

Managing Director Road Safety Support



- Road Safety Former UK police officer 32 years road policing experience
- Manages the UK Government Home Office approval testing process for Enforcement Technology
- National safety camera co-ordinator
- Managing Director Road Safety Support
- Member of the US International Association of Chiefs of Police Highway Safety Committee



# Global Overview

## Why we need to use Enforcement Technology



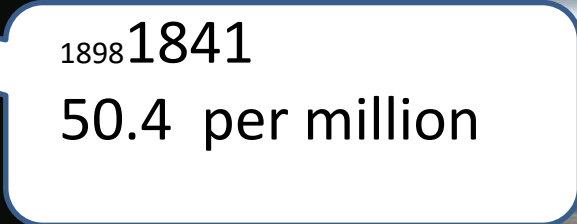


# USA

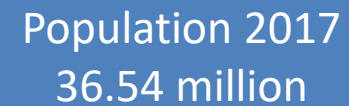
37461 **37133**  
114.0 per million

Population 2017  
325.7 million

# Canada




1898 1841  
50.4 per million



Population 2017  
36.54 million

# Alberta



299 **301** (prelim)  
70.9 per million

Population 2017  
4.244 million



# UK

<sup>1780</sup>1793  
27.2 per million


Population 2017  
66.04 million

# What can be considered risky driving behaviour

- Speeding
- Distraction (mobile phone use)
- Impairment through (drink or drugs)
- Aggressive or inconsiderate driving
- Red light running



# Enforcement technologies that effect change in driver behaviour



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# SAFETY CAMERA USE FOR SPEED ENFORCEMENT



**Mobile**

## Safety Camera Vans



Long Range and a visible physical deterrent.

# SAFETY CAMERA USE FOR SPEED ENFORCEMENT



Highly visible deterrent

## SAFETY CAMERA USE FOR SPEED ENFORCEMENT

The use of ANPR has proved to be important in the detection of many offences, including:

- locating stolen vehicles
- tackling uninsured vehicle use
- solving cases of terrorism, major and organised crime

Speed camera vans in the UK can have a **dual purpose**, enforcing using both systems



# SAFETY CAMERA USE FOR SPEED ENFORCEMENT

## Mobile camera view



# SAFETY CAMERA USE FOR SPEED ENFORCEMENT

## Night time capability



82mph town centre  
biker is disqualified  
from riding

A motorcyclist on a high  
powered machine has  
been banned from the  
roads after riding  
through a town centre  
82mph (132kph)





# Average Speed Enforcement Technology



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# SAFETY CAMERA USE FOR SPEED ENFORCEMENT

## Distributed Average Speed Cameras

➤ Known as Distributed Average Speed Cameras - capable of providing a total traffic calming solution and having a major effect on driver behaviour over a wide area.





## A9 Scotland, Europe's largest enforcement project by Jenoptik

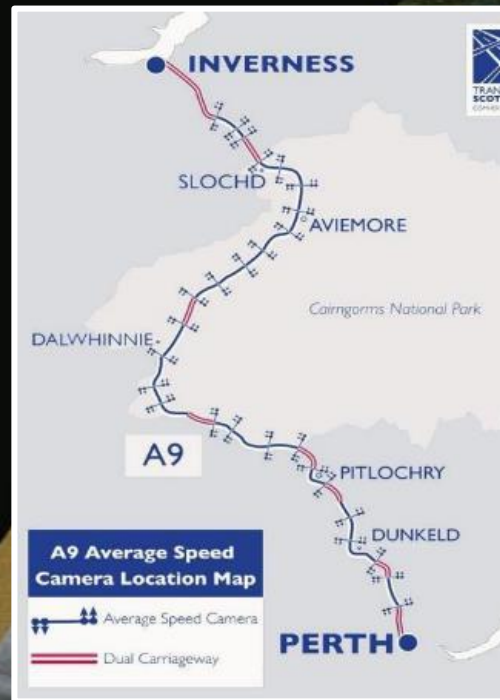
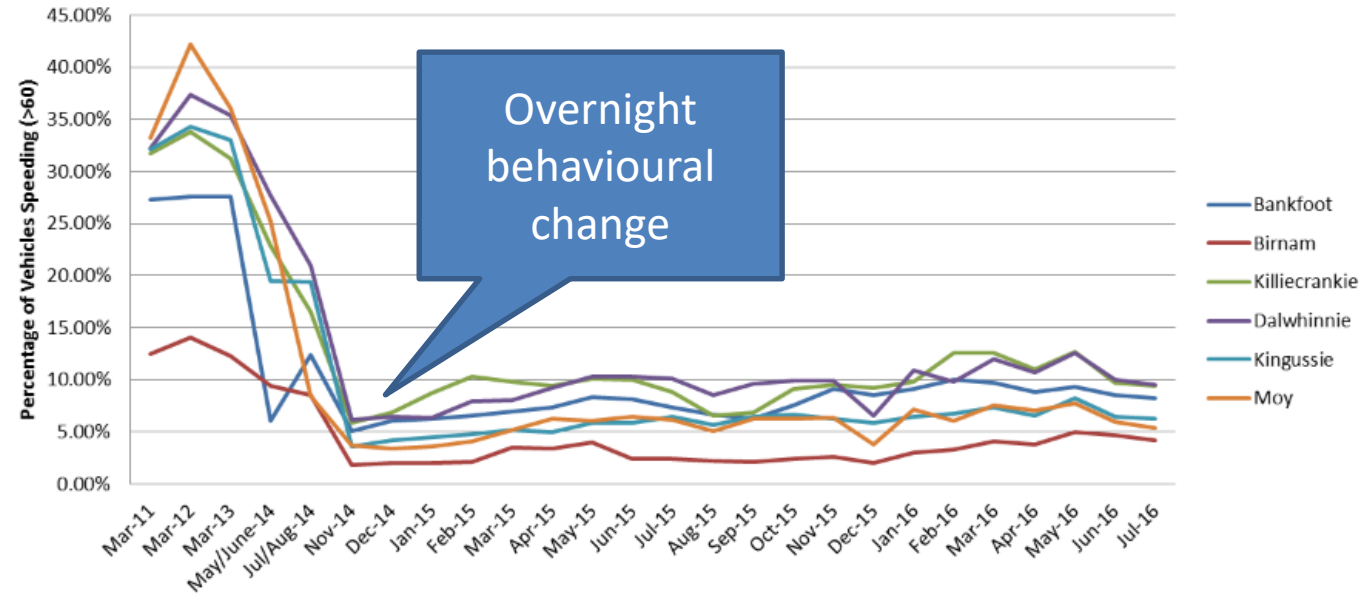
- 220km of average speed enforcement
- Delivered using SPECS3 & Infra Red lighting
- Operational from October 2014
- Transport Scotland scheme
- Hugely political!
- Broken into 'chunks' of 5km
- HGV limit raised to 50mph.



Case Study – Changing Behaviour

## A9 Scotland, Europe's largest enforcement project

Percentage of Vehicles Speeding (>60)



## Case Study – Changing Behaviour

# In Car Mobile Speed Enforcement used in France





# SAFETY CAMERA USE FOR SPEED ENFORCEMENT

## In car mobile enforcement (Video)



# Mobile or Cell Phone Enforcement Camera



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# Mobile Phone Camera

Mobile phone camera  
The world's first roadside camera that catches drivers using their mobile phone has arrived in Australia. The New technology is being trialled in NSW and Victoria.

Road safety campaigners want the UK to adopt the system for UK roads.



<http://www.onetask.com.au/>



# Mobile phone enforcement camera



**HAPPENING NOW**

## SYDNEY POLICE HUNT KILLER

67-year-old grandmother found dead at Penrith

TENNIS: SERENA WILLIAMS RATED "VERY LIKELY" TO PLAY AUSTRALIAN OPEN



7.33

# Mobile phone enforcement camera testing





EN16 UBK

quattro



9944



# Operation Tramline



## National HGV road safety project 'Operation Tramline'

Three plain white HGV tractor units have been loaned out to police forces by Highways England to help improve safety for drivers on the strategic road network in England. The contract for the unmarked HGV cab national project aims to change driver behaviour and discourage non-compliance.



# Operation Tramline



# Operation Snap



Operation SNAP is a response to increasing submissions of video and photographic evidence relating to driving offences that members of the public have witnessed.

The initiative introduced in Wales by the road safety partnership Go safe wales it is now being rolled out throughout many UK force areas.

It provides a streamlined process that allows members of the public to upload Dashcam or smart phone video evidence. been developed to deal with them. This will hopefully make it easier for all involved.

<https://gosafe.org/>

# Operation Snap



# SAFETY CAMERA USE FOR SPEED ENFORCEMENT

News

## David Beckham banned from driving for six months after using mobile phone whilst driving Bentley through West End



David Beckham leaving Premier Magistrates Court

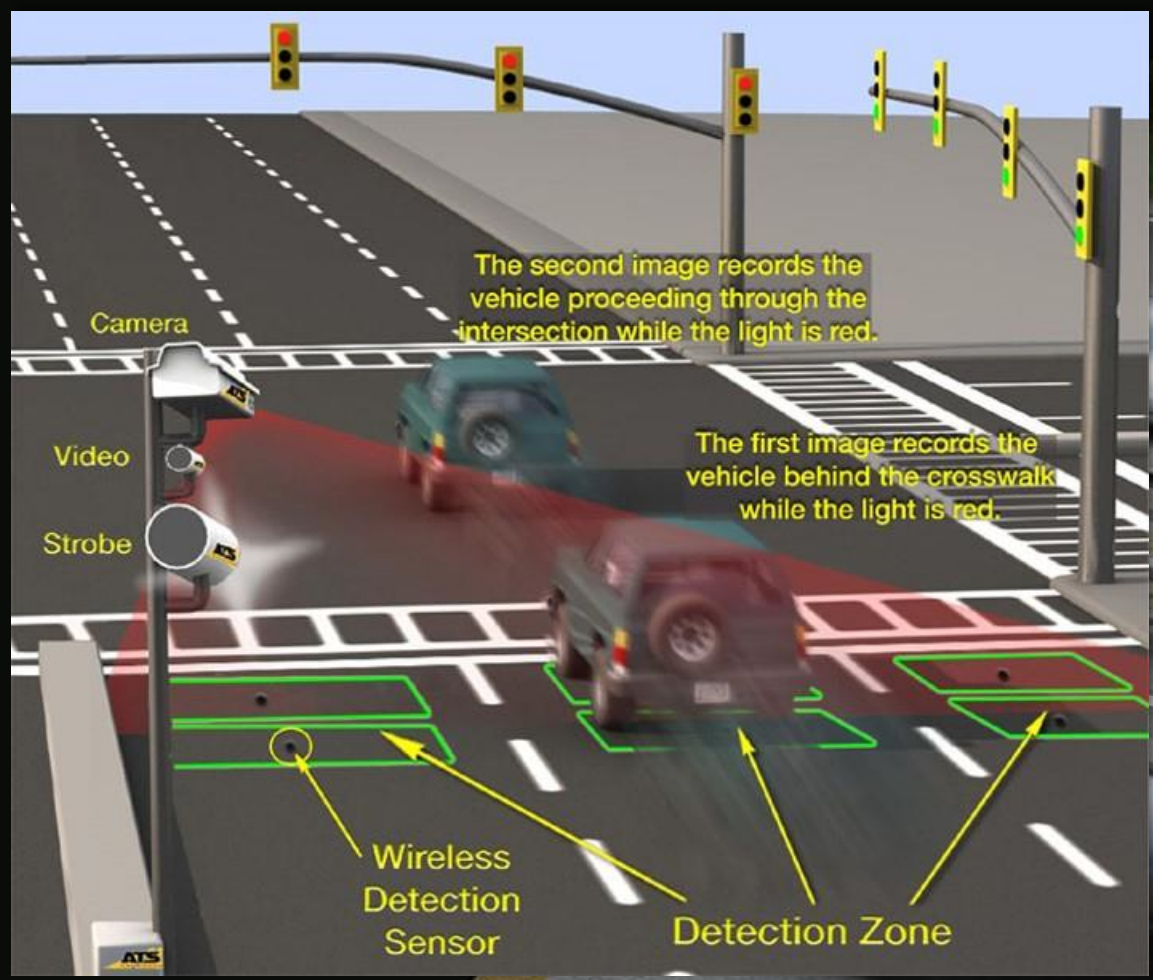


# Red-light



# SAFETY CAMERA USE FOR SPEED ENFORCEMENT

**Red-light camera's**  
Road crashes are a leading cause of death and injury. One common place for these to happen is at junctions controlled by traffic signals. 'Red-light cameras' are now widely used to identify and prosecute drivers that jump ('run') red lights,



# Red-light captures (Florida example)



# Alcohol and Drug Testing

Increasing road safety by reducing drug driving is a major problem facing police forces across the globe. New testing technologies allow police forces to screen suspected drug drivers so they can be detected.



# Sweden 'Alco Gate'

Sweden has long been a forerunner in the fight against drink driving. In 1999 the country was one of the first EU member states to introduce alcohol.



In 2013, Sweden went a step further and ran a pilot project to introduce a fast-moving automated 'Alco Gate' at the Port of Gothenburg.



# Other Enforcement Vehicles



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## CCTV mobile vehicles

Driver distractions have been identified as a major cause of road traffic collisions.


- Enforcement cars are fitted with a high quality camera on an extendable mast. The objective of increasing enforcement through use of these high profile vehicles is to increase driver awareness, act as a deterrent and improve public safety.



# Police vehicle used to detect mobile phone use whilst driving



# And finally Speed Enforcement “The American Way”



# **Concerned Constituent Report**

*Speaking out about  
County Government's  
recent decisions to install  
street signs in lieu of  
ongoing traffic concerns*

*January 2011*

# Thank You

