

# When it goes wrong

Eric Hill – Principal Engineer – Operational Road Safety



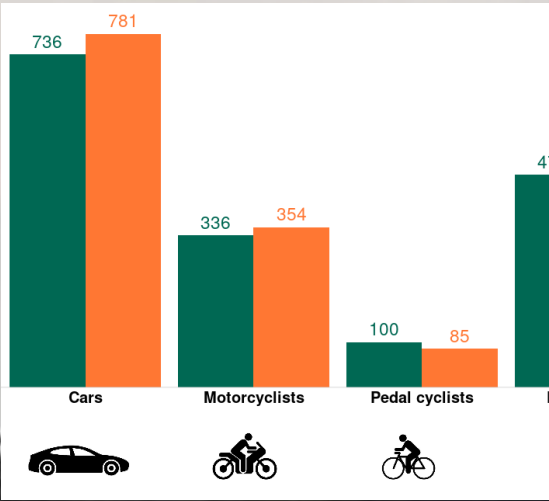
# Introduction

- Problem?

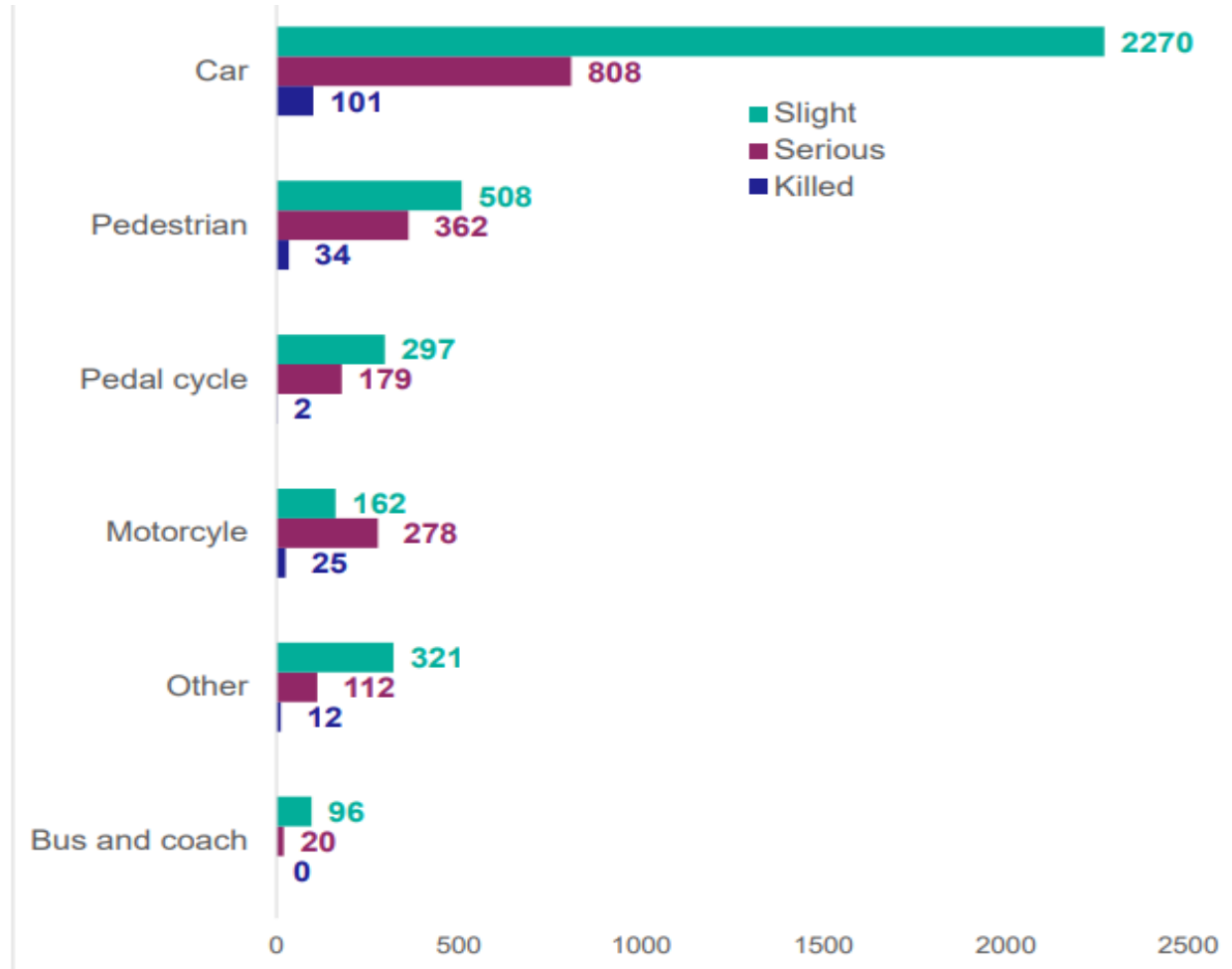




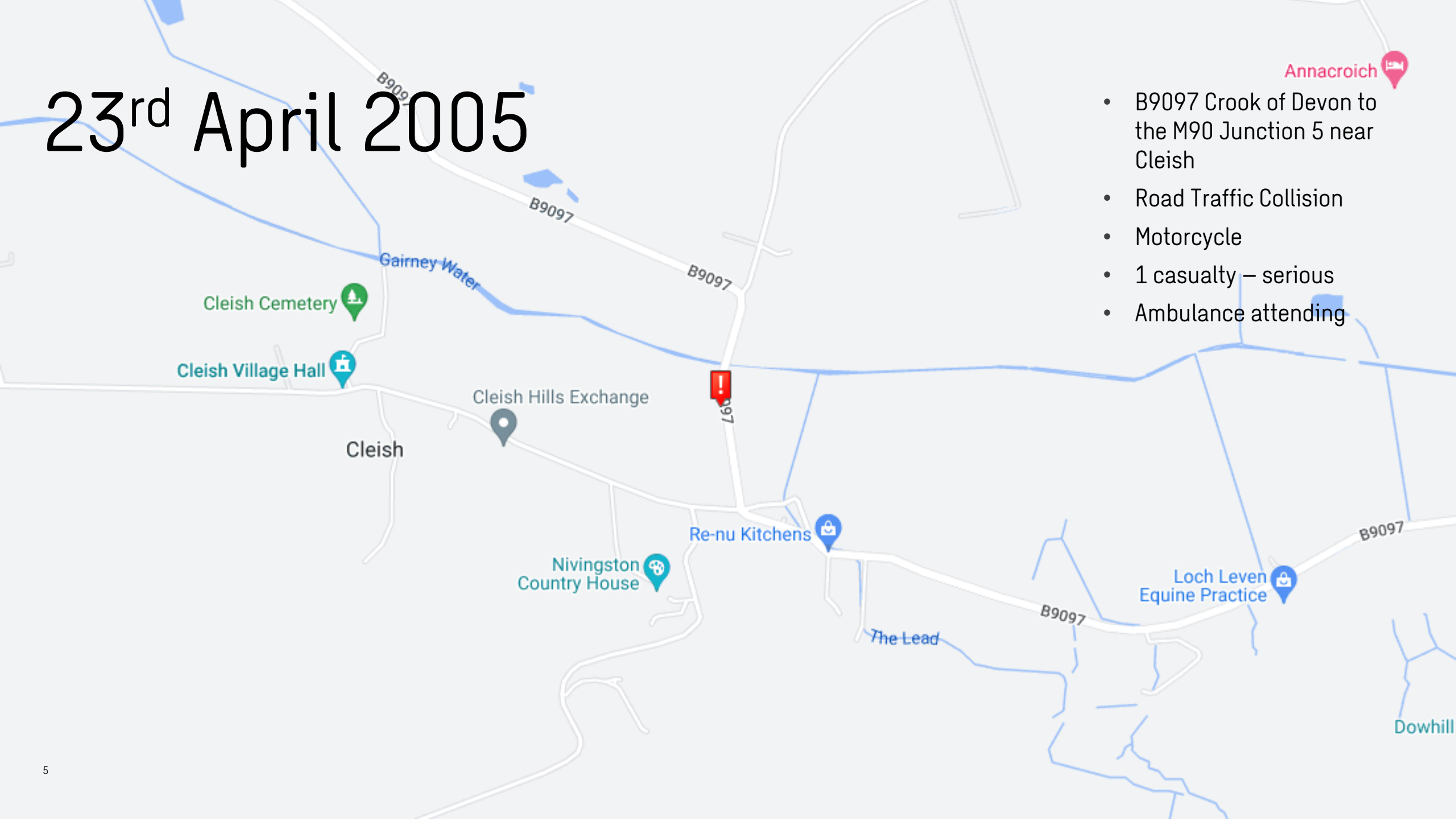
# GB figures - fatalities



# Scotland



# 23<sup>rd</sup> April 2005



- B9097 Crook of Devon to the M90 Junction 5 near Cleish
- Road Traffic Collision
- Motorcycle
- 1 casualty – serious
- Ambulance attending



# Circumstances



# Geometry



- Crest curve
- Left bend



# Visibility



- Hedges
- Wall



# Roadsides



- Kerb
- Verge
- Wall
- Fence

# Riders

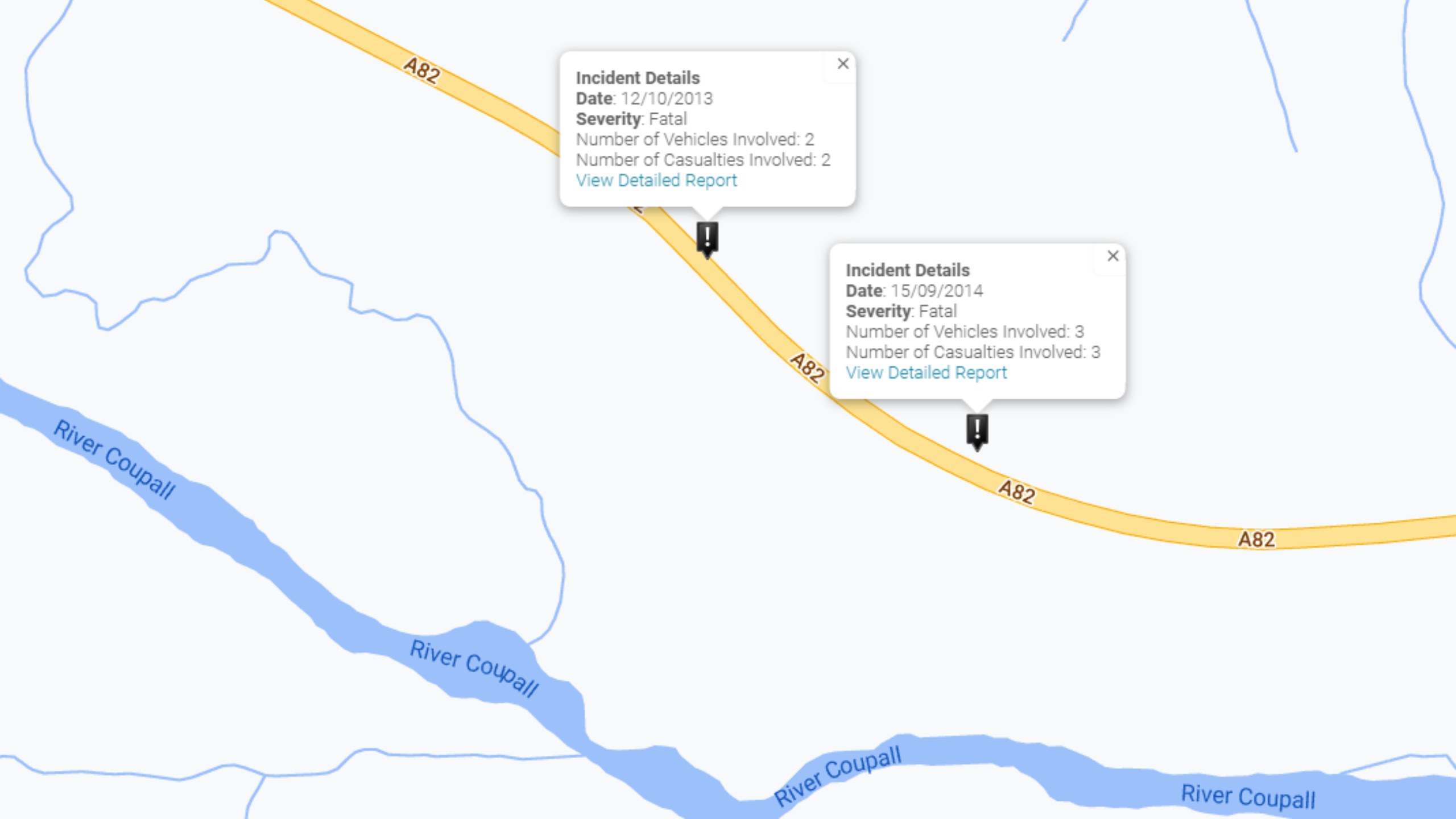


- Basic skills
- Appreciation of road geometry



# Kingshouse Glencoe





**Incident Details** ✕  
**Date:** 12/10/2013  
**Severity:** Fatal  
Number of Vehicles Involved: 2  
Number of Casualties Involved: 2  
[View Detailed Report](#)

**Incident Details** ✕  
**Date:** 15/09/2014  
**Severity:** Fatal  
Number of Vehicles Involved: 3  
Number of Casualties Involved: 3  
[View Detailed Report](#)



# Location





# Carriageway patch





# Survey



2014/11/02  
12:40:58

# Problem



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# Options 1: Earthworks

- High cost
- Medium/high environmental impact
- Relatively challenging works
- Construction time
- Small maintenance costs



# Options 2 - Screening



- Medium cost
- Medium environmental impact
- Relatively challenging works
- Time
- Medium maintenance costs



# Option 3 - Signing

- Low cost
- Low environmental impact
- Relatively easy and quick response
- Small maintenance cost



# Solution





# Suicides?

- How many road traffic collisions are suicide?
- How do we know if they are?

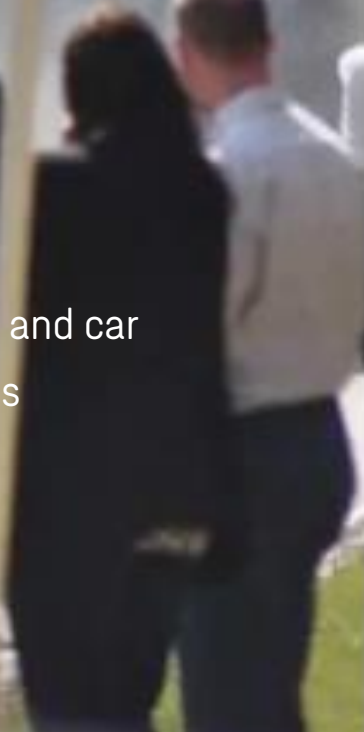
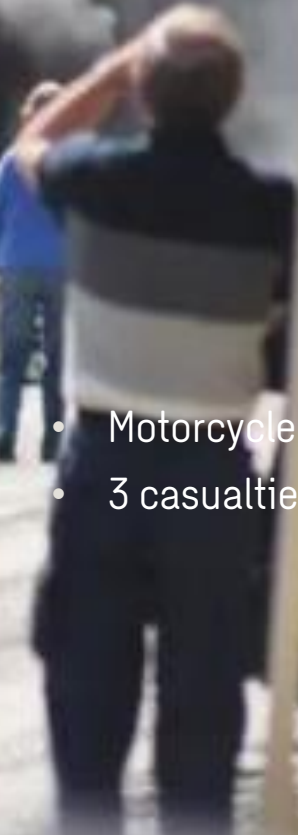
22<sup>nd</sup> April 2015



- Motorcycle and 2 vehicles
- 2 casualties



9<sup>th</sup> May 2015



- Motorcycle and car
- 3 casualties

# Ripple effect



- The casualties
- Families
- Friends
- Colleagues
- First responders
- Carers
- Witnesses.



# Interventions - Bikeguard





# Interventions – Barrier reflectors

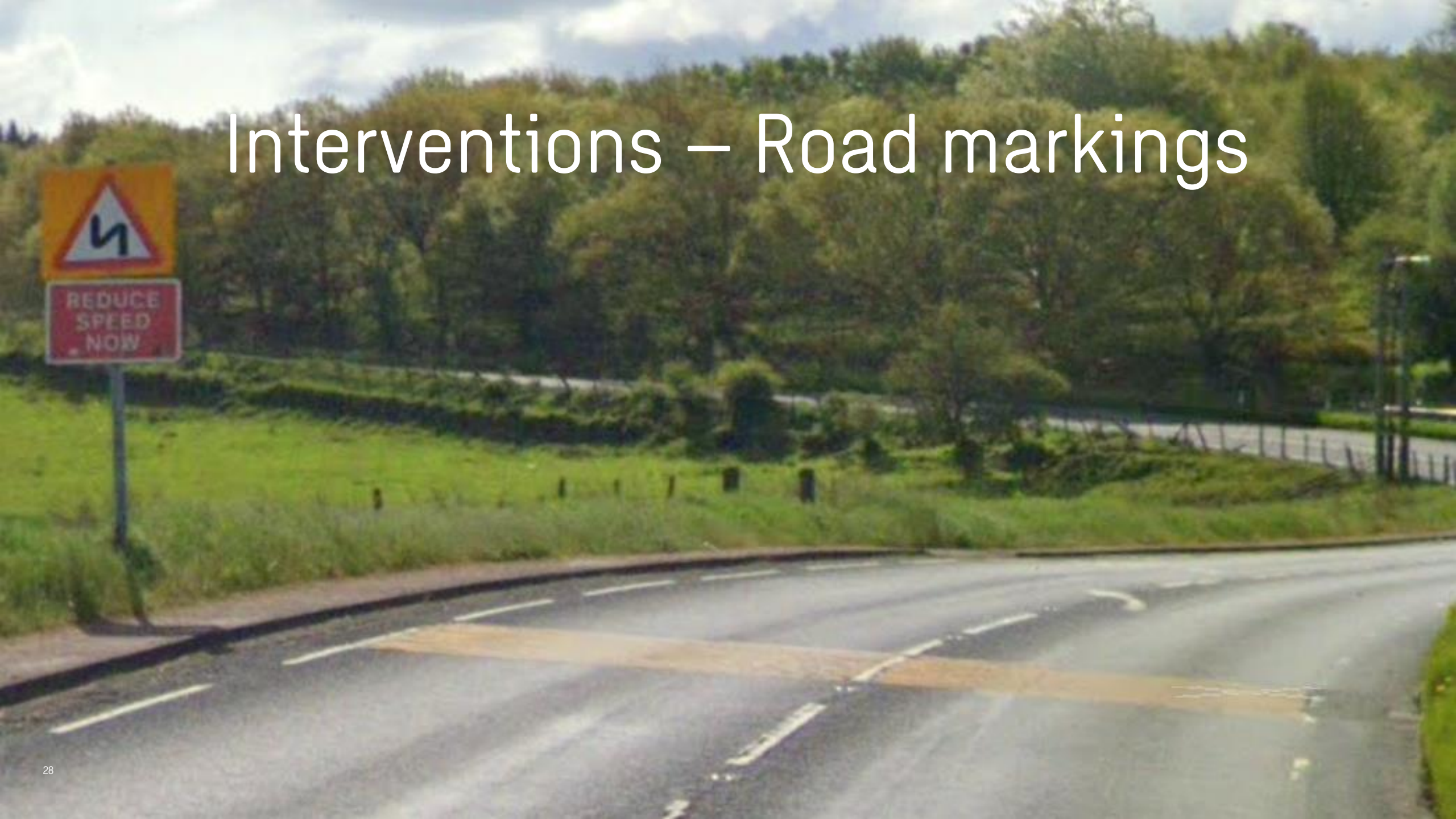




# Interventions – Chamber covers



# Interventions – Road markings





# Interventions – nudge approach





# Questions

