

A1303 Safer Roads Project

Stow-Cum-Quy to A11 Flyover

Parish Council Presentation

4th December 2017



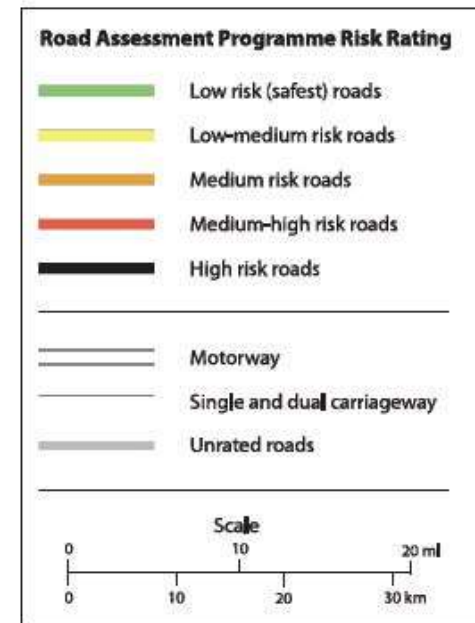
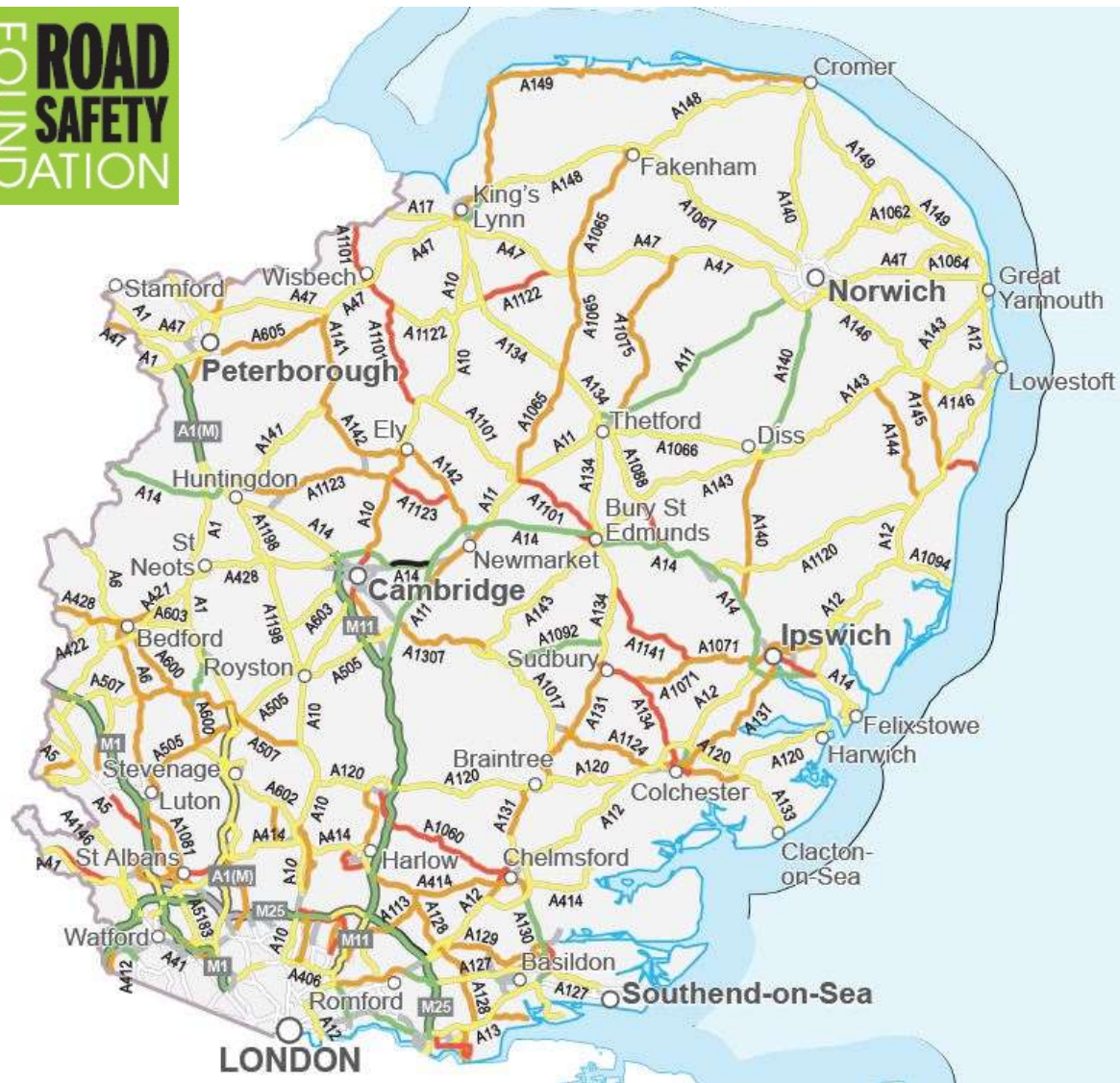
AGENDA

- The Department for Transport (DfT) Safer Roads Fund
- EuroRAP pathfinder project
- Funded countermeasures
- Way forward

The DfT Safer Roads Fund

- Road Safety Foundation produce risk ratings
- Based on accident statistics and volume of vehicles
- 50 highest risk 'A' roads 2012-14 selected by DfT
- A1303 highest risk road in East of England
- Volunteered to be part of Pathfinder Project funded by RAC Foundation

**ROAD
SAFETY
FOUNDATION**



SCHEME EXTENTS – 6.6 KM



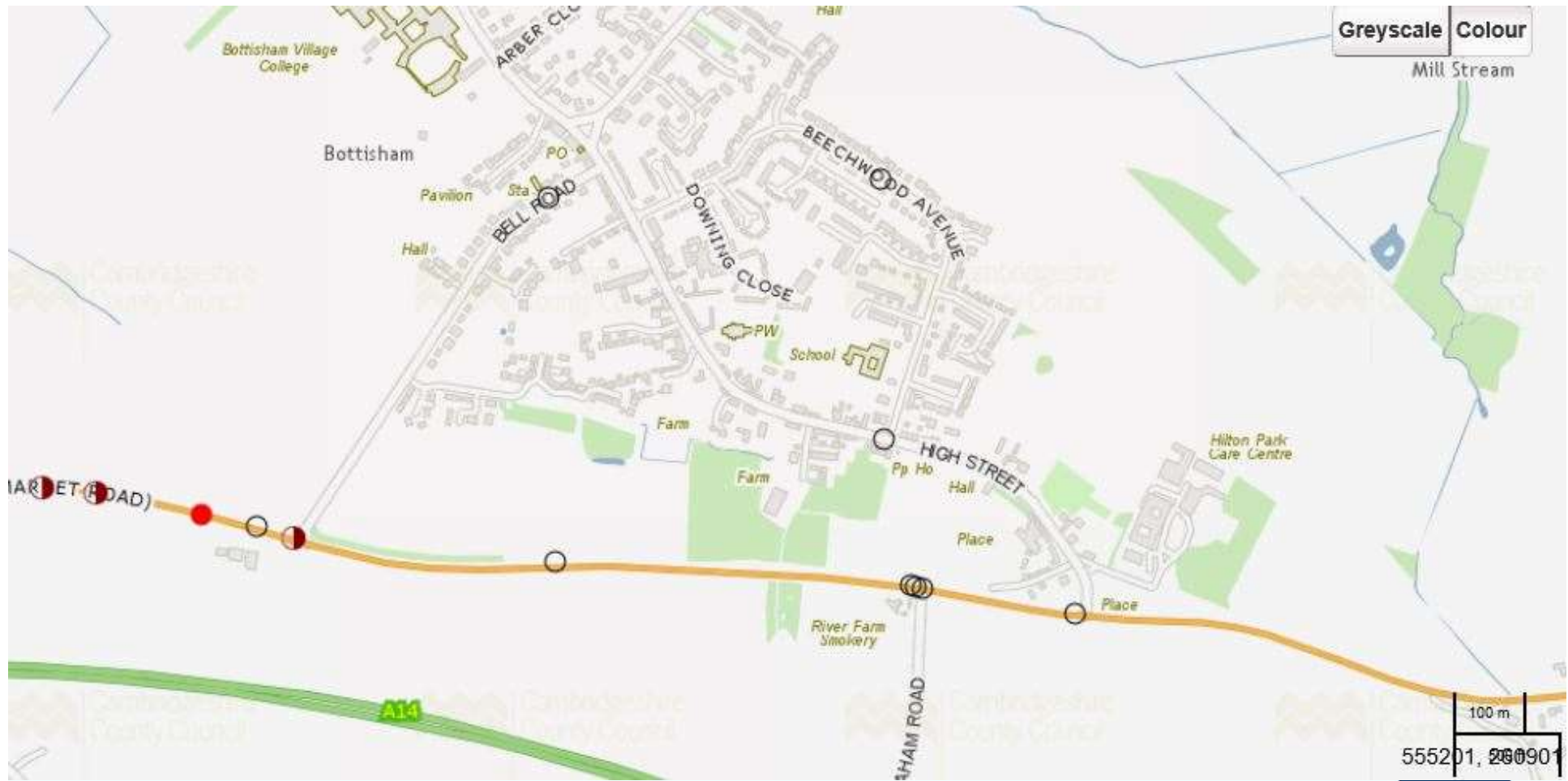
Statistics/Data Information

- Annual Average Daily Flow of 4,851 vehicles (2015)
- 22 injury accidents between 1st January 2012 and 31st December 2016.
- 15 slight, 6 serious, 1 fatal
- Themes; Rear end shunts, single vehicle loss of control, exiting junctions, failure to look properly

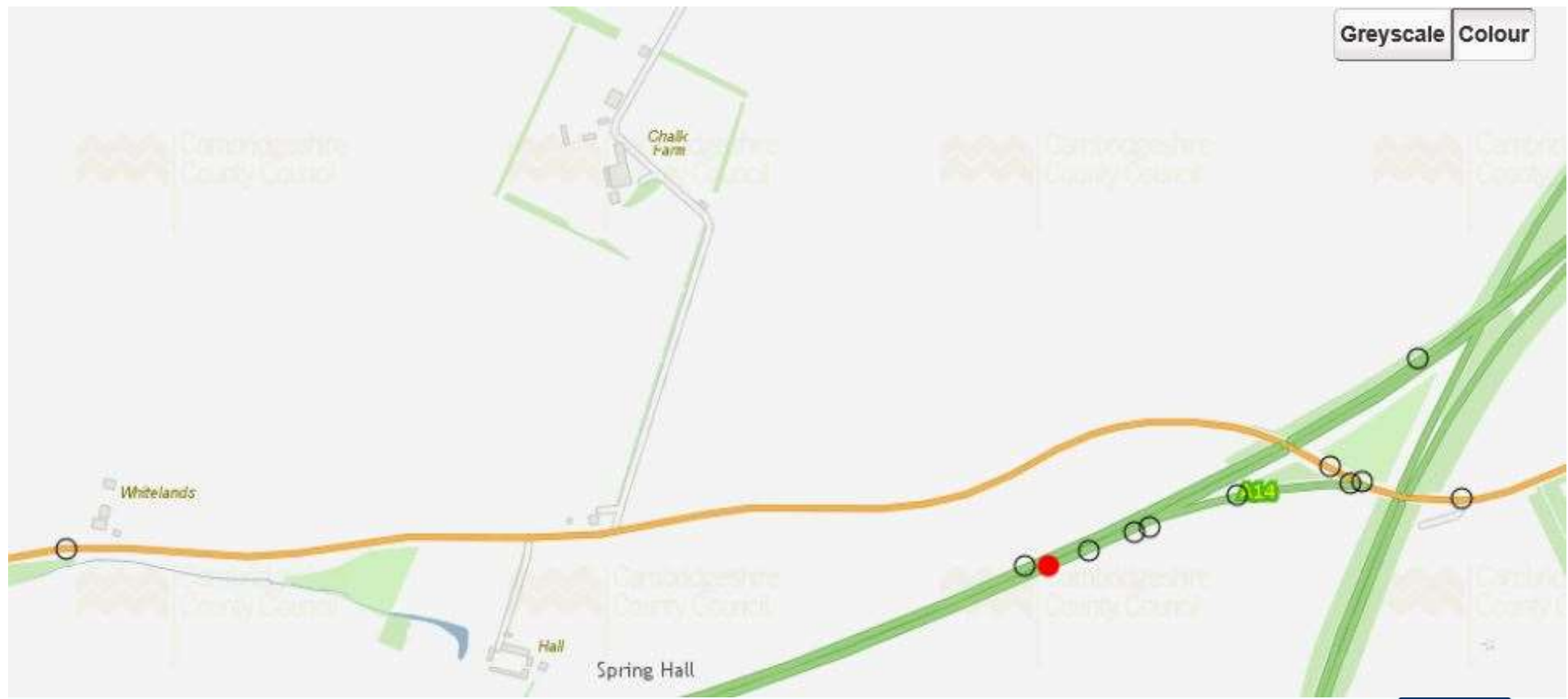
ACCIDENTS – WESTERN SECTION



ACCIDENTS – CENTRAL SECTION



ACCIDENTS – EASTERN SECTION

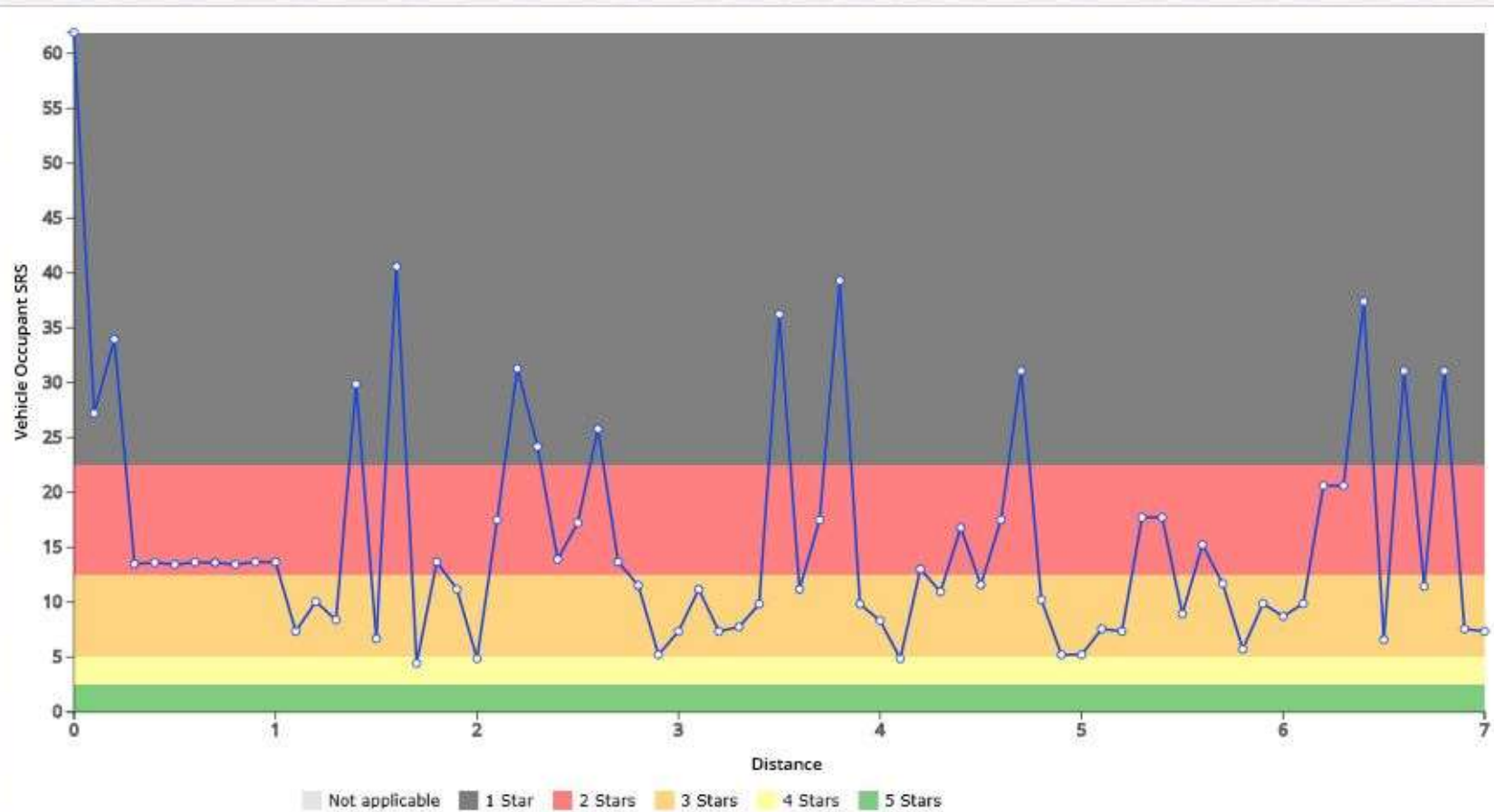


EuroRAP Pathfinder Project

- 8 Authorities supported by RSF funded by the RAC Foundation
- Utilise European Road Assessment Programme
- Road inspected and software used to provide objective measure of level of safety ‘built-in’ to the road
- Star Rating by road user type between 1 and 5
- A1303 achieved 2-star rating

Risk Worm

Vehicle Occupant SRS - Before countermeasure implementation



Funded Countermeasures

- Software suggests countermeasures to reduce risk to road users based on international research
- Investment Plan created – prioritises safety measures based on their cost vs potential FSI saving
- Benefit/cost ratio to be greater than 1, i.e. will save more than the cost to implement
- Safer Roadsides and Self Explaining Roads
- Carried out over a 2 month period earlier this year and Investment Plan submitted to DfT.

Funded Countermeasures

CounterMeasure	Length / Site	Unit	FSI Saved	PV of Benefits
Delineation and signing (intersection)	7	sites	2.8	805,416
Roadside barriers - passenger side	1.051	km	0.6	182,343
Roadside barriers - driver side	1.394	km	0.9	244,755
Shoulder rumble strips	6.6	km	2.3	653,881
Improve Delineation	1.1	km	0.7	187,126
Protected turn lane (unsignalised 3 leg)	2	sites	1.1	311,577
Shoulder sealing passenger side (>1m)	2.1	km	0.5	152,355
Street lighting (mid-block)	0.9	km	0.9	250,672
Improve curve delineation	0.75	km	0.3	90,630
Shoulder sealing driver side (>1m)	1.796	km	0.5	139,171
Wide centreline	5.64	km	0.3	87,585
			10.9	3,105,511

Funded Countermeasures

CounterMeasure	Program BCR	2017 Capital Cost per unit	Total Cost
Delineation and signing (intersection)	18.72	£ 7,289.47	£ 51,026.29
Roadside barriers - passenger side	1.63	£ 126,447.40	£ 132,896.22
Roadside barriers - driver side	2.23	£ 93,450.56	£ 130,270.08
Shoulder rumble strips	10.16	£ 11,561.28	£ 76,304.43
Improve Delineation	27.57	£ 7,316.45	£ 8,048.10
Protected turn lane (unsignalised 3 leg)	1.69	£ 109,080.59	£ 218,161.17
Shoulder sealing passenger side (>1m)	0.49	£ 175,586.37	£ 368,731.38
Street lighting (mid-block)	4.86	£ 67,922.24	£ 61,130.02
Improve curve delineation	8.94	£ 16,034.32	£ 12,025.74
Shoulder sealing driver side (>1m)	0.49	£ 189,377.60	£ 340,122.17
Wide centreline	2.13	£ 8,648.95	£ 48,780.08
	2.54		£ 1,447,495.68

Site Specific Measures

- Street lighting of Little Wilbraham, Albert Road and Wilbraham Rd Junctions
- Protection of right turn lanes at all junctions wherever possible.
- Construction of new right turn lane facilities at Wilbraham and Albert Rd junctions.
- Improvements to the layout of all existing junctions.
- £1.3M funded by DFT and £145k by County Council





Wooden Clad Safety Barrier



Traditional Steel Safety Barrier

Way Forward

- The successful DfT application can be found on the County Council's website under Transport Bids
- Detailed scheme plans will be made available in the new year on a dedicated scheme webpage
- Further detailed public consultation planned next year on the roadside hazard element of the scheme
- Construction on all other elements due to start at the end of January 2018.

Questions