

# The Connected Nation

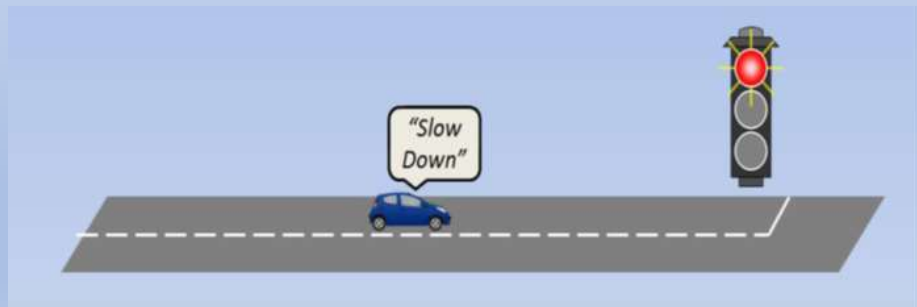
Andy Graham





# Real world problems ...but solutions now coming

- Previous traffic signal investment now not effective due to lack of tuning
  - 20-30% journey time savings using data from vehicles in York and Warrington
  - Benefits 35 times costs
- Emissions of engine, tyres, brakes and asphalt
  - 14% reduction in stops on the A45
- Roadworks and asset management
  - 5% reduction in scheme costs in Westminster -> £150M across UK
  - Survey costs reduced in Buckinghamshire, West Midlands, North Yorks...
- Smarter parking for cars and freight deliveries
  - Navigate to space in Harrogate, Coventry, Cardiff, Oxford, Milton Keynes
  - New policies for pricing to protect high street
- Data from eCall equipped vehicles on airbag deployment
  - 3000 a month in UK and rising





Detected: 2018-07-05 10:49:36 +01:00 8 months ago

Condition: 5 4 3 2 1

Action: OK Fix Replace Missing

Text:
 

- Category: warning
- Name: Roundabout ahead
- Country code: gb: 510
- Additional info: -
- Time: 05/07/2018 10:49:36
- Address: Not available
- Location: 54.33441, -1.43847 (WGS:84)
- Heading: 59
- Detection confidence: 1



# Main messages

- New forms of data need Roads Authorities to adopt them
  - New processes and New contracts to drive behaviour and save money
  - Data on its own – so what? Needs new skills
  - Roads are connected ready – people, organisations and downstream processes not
- Roads data is often thrown away
  - As its capturers don't know value, and users don't know it exists
  - LIDAR / cameras/ for white lines, yellow lines, potholes and signage, accidents, .....
- Fix what we have invested in first (for a mixed connected fleet)
  - Signals and VMS are often broken
- Visible benefits from connectivity
  - Better journeys, parking and roads in months not years
- **Data isn't just from or to new cars**
  - Average UK vehicle age 7.9 years
  - Connected trucks, slow tractors, motorbikes, cycles, combine harvesters and older cars too

