

# **Delivering the casualty reduction target on the Strategic Road Network**

## **The role of Safer Vehicles**

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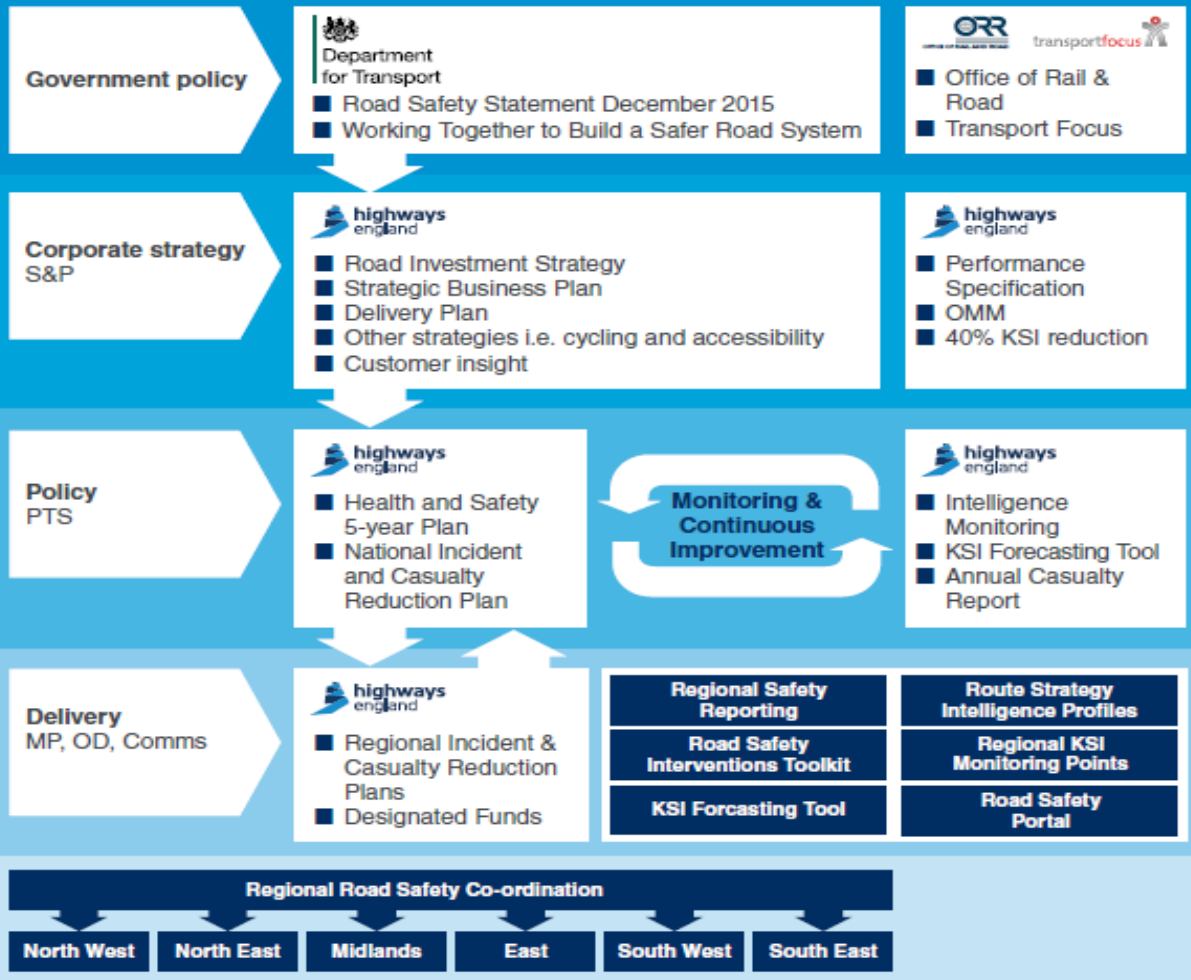
# Contents

- Our ambition for safety
- The safe system approach
- The role of safer vehicles

# Our ambition

- Provide a safer network for all road users and reduce number of casualties
- Target 40% reduction in number of killed or seriously injured
- No-one should be harmed while using or working on our network

## Road safety delivery model



Today

Future

## ROAD SAFETY MANAGEMENT SYSTEM

Strategy

Partnerships

Reporting

Research

Coordination

### SAFER ROADS

- Minimum 3\* rated roads
- Smart Motorways
- Expressways
- Average Speed Cameras
- Protected turns
- Safer verges
- Signing/lining

### SAFER VEHICLES

- Collision survivability
- Road-vehicle interaction
- Collision avoidance technology
- (Semi)-Autonomous vehicles
- Road Worthiness – tyres, fuel and maintenance

### SAFER PEOPLE

- Compliance
- Education
- Driver behaviour and attitudes

### POST COLLISION RESPONSE

CLEAR

Partnerships

Debriefs

## 2014 “Avoidable Incidents”



Over 185,000 breakdowns



Over 8,000 out of fuel breakdowns



Over 42,000 tyre related breakdowns



Over 46,000 debris incidents

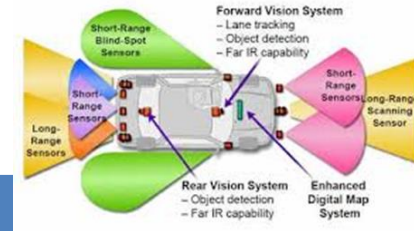


Over 500 oncoming vehicles

# Safer vehicles



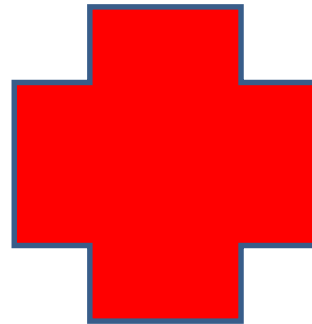
Collision survivability –  
Time Saved = Lives Saved



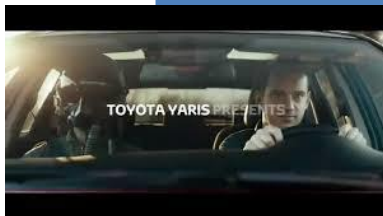
Road-vehicle interaction



Collision avoidance  
technology



Connected/autonomous  
vehicles



Road worthiness  
(tyres/fuel/maintenance)



# Highways England Policy – 5 year health and safety plan

<p><b>81</b></p>	<p>Commission a range of road safety research projects to improve understanding of incidents including:</p> <ul style="list-style-type: none"> <li>■ the causes of fatalities in collisions on the network;</li> <li>■ the current state of the roadworthiness of vehicles;</li> <li>■ the impact of road works on driver stress.</li> </ul>	
<p><b>Start Date:</b> April 2015</p>	<p><b>Target End Date:</b> March 2016</p>	<p><b>Owner:</b> Executive Director Professional and Technical Solutions</p>
<p><b>113</b></p>	<p>Work with car manufacturers and other organisations to develop technologies that improve safety, such as collision avoidance technology and autonomous vehicles which mitigate against key contributory factors in accidents.</p>	
<p><b>Start Date:</b> October 2017</p>	<p><b>Target End Date:</b> March 2020</p>	<p><b>Owner:</b> Executive Director Professional and Technical Solutions</p>
<p><b>114</b></p>	<p>Review and revise our hire car policy to ensure all hire vehicles meet a minimum 5* New Car Assessment Programme (NCAP) rating.</p>	
<p><b>Start Date:</b> January 2016</p>	<p><b>Target End Date:</b> September 2016</p>	<p><b>Owner:</b> Chief Finance Officer</p>



# Improving our understanding

- Understand how safer vehicles help us achieve our KSI targets
  - KPMG report: 2,500 lives saved 2014-2030
  - 25,000 serious accidents prevented 2014-2030
- Understand how we safely operate a network where our customers drive connected/autonomous vehicles
  - Impact of connected vehicles on safety/capacity
  - Future proofing the network – reducing/changing roadside infrastructure, road surface, road markings
  - Appropriate governance for trialling these vehicles on the strategic road network
  - Freight platoon management (like abnormal loads?)



**Any questions?**