

The Electric Vehicle Revolution: Managing Impacts on the Powergrid

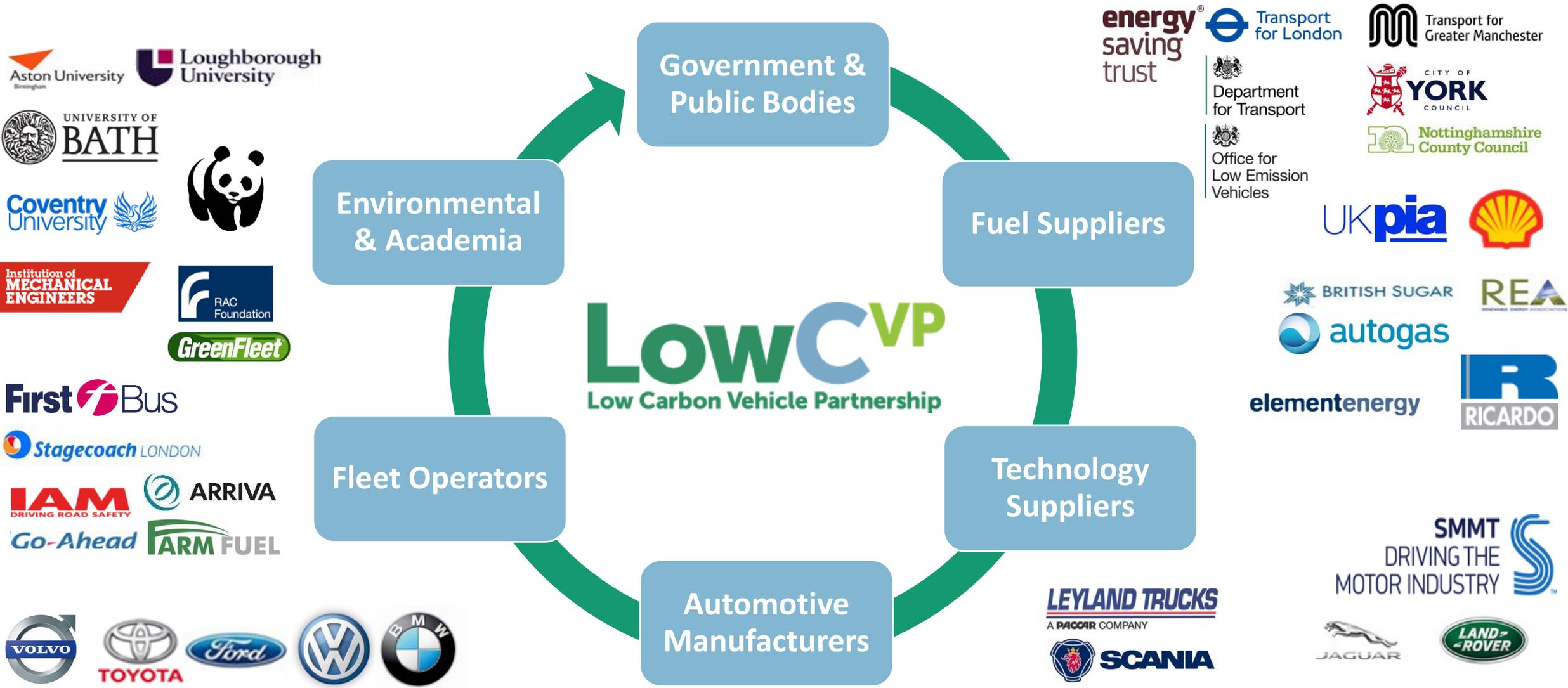
LowCVP seminars @Energy 2017
Wed, 11 October, 2017 – NEC



Chair: Andy Eastlake, Managing Director

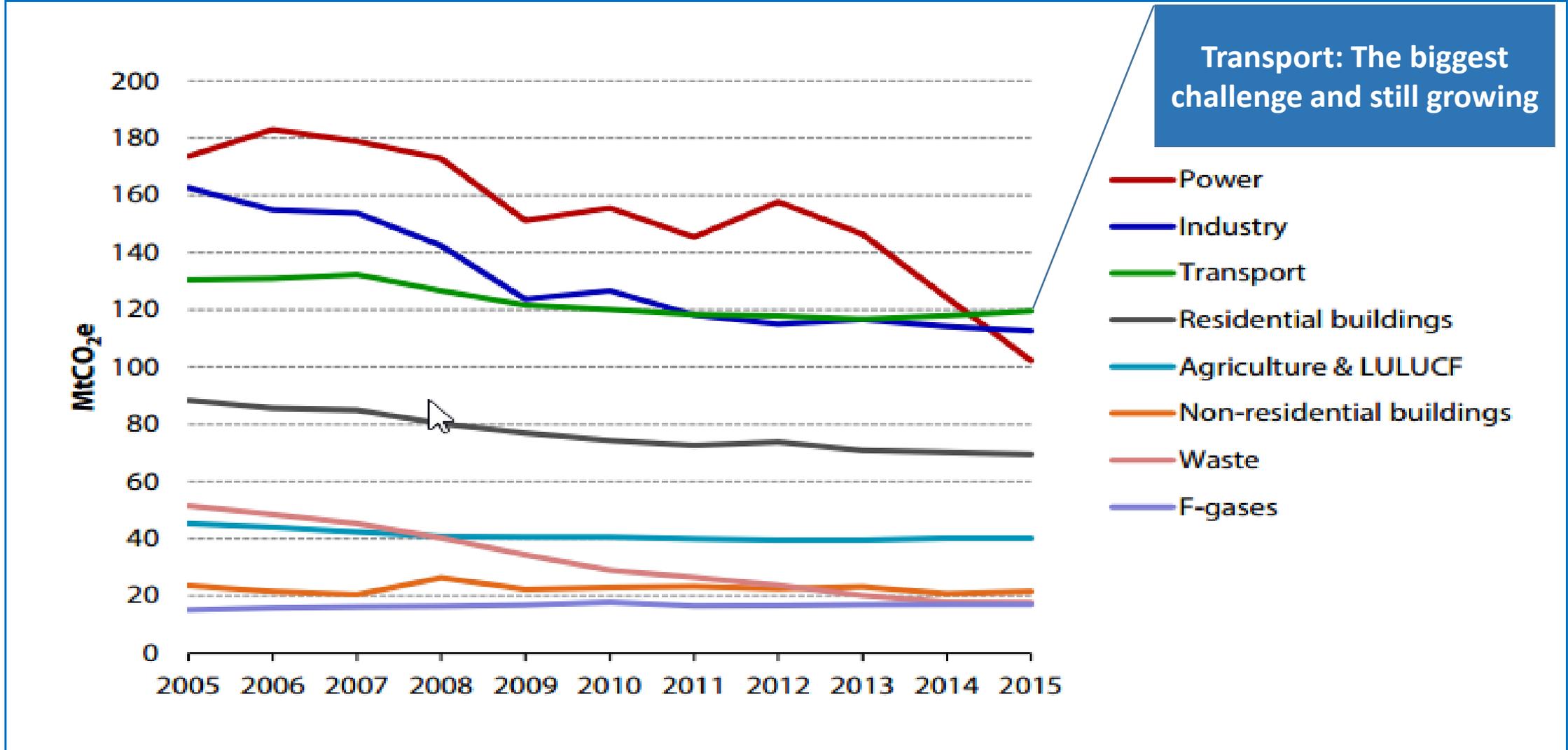
Low Carbon Vehicle Partnership

LowCVP: A unique public-private membership organisation, building evidence and creating robust policies and innovation in the UK

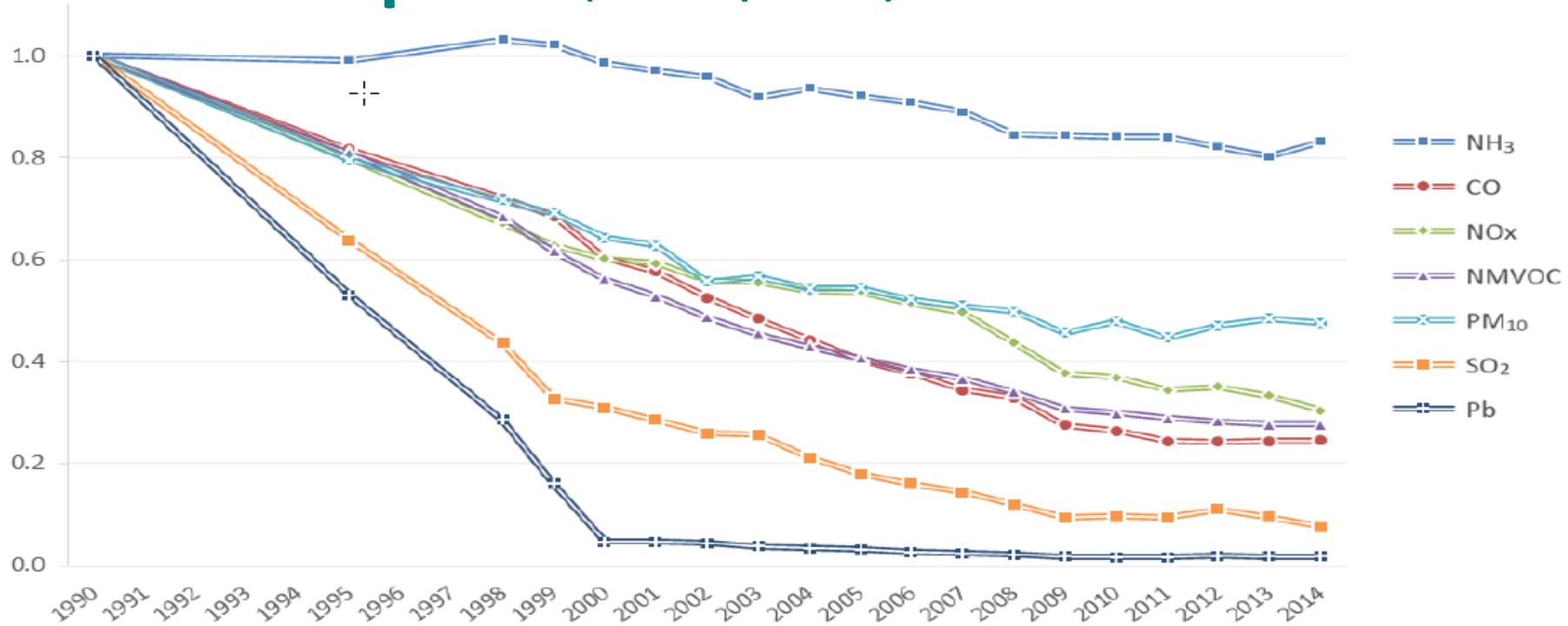


Decarbonising UK Transport? (CCC 2015)

Figure 1. Progress reducing emissions since 2012 has been almost entirely due to the power sector



Clean air and transport? *(NAEI sept 2016)*



Overall Rank	Sector	NH ₃	CO	NO _x	NMVOC	PM ₁₀	SO ₂	Pb
1	Transport Sources	2.5%	27.0%	45.1%	6.0%	18.7%	2.8%	3.7%
2	Residential & Other Combustion	1.1%	25.0%	9.1%	5.6%	30.8%	13.6%	8.2%
2	Industrial Combustion	0.0%	37.5%	17.6%	3.0%	10.8%	26.3%	23.2%
4	Industrial Processes	1.5%	4.7%	0.0%	7.0%	15.8%	3.0%	55.7%
5	Energy Industries	0.0%	4.0%	25.8%	0.0%	5.6%	50.2%	5.4%
6	Agriculture	81.7%	0.0%	0.0%	11.0%	10.4%	0.0%	0.0%
7	Other	7.9%	1.5%	2.3%	1.7%	4.7%	0.3%	3.5%
8	Fugitive	0.0%	0.3%	0.0%	13.1%	0.0%	3.9%	0.0%
9	Solvent Processes	0.0%	0.0%	0.0%	52.6%	3.4%	0.0%	0.0%
10	Waste	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%

The immediate challenge & potential solution

Environment

London exceeds annual air pollution target in just five days

One site in Brixton has already surpassed hourly limits for nitrogen dioxide concentrations 24 times so far this year, according to data from King's College London's Air Quality Network

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The UK has broken EU air quality regulations every year since 2010 Reuters

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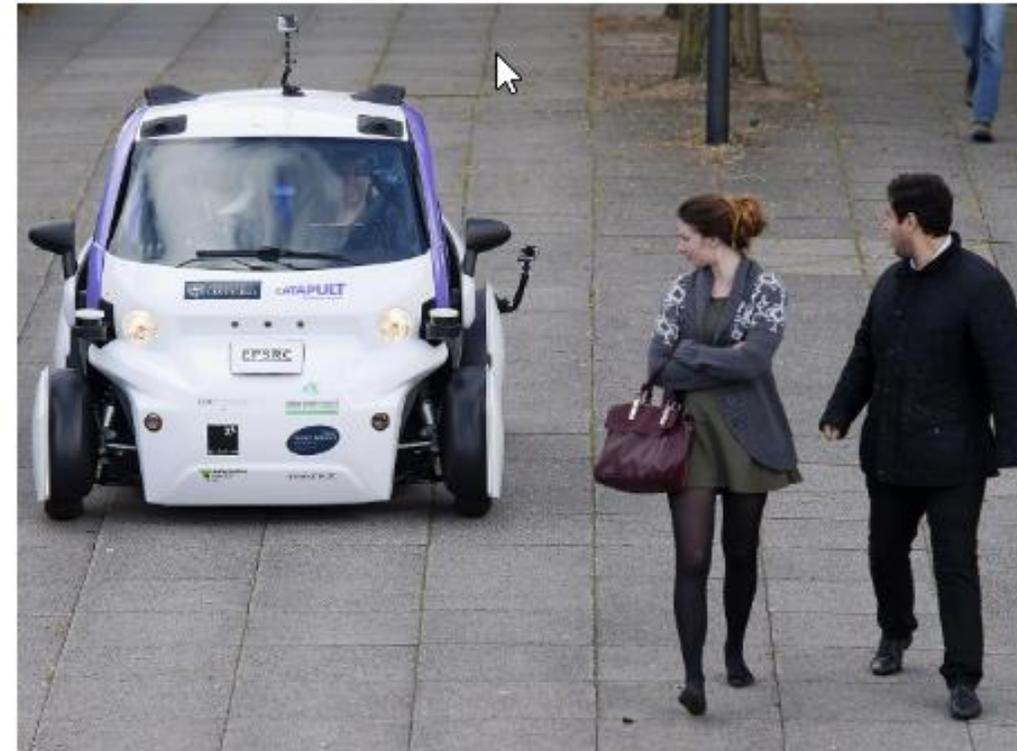
Driverless electric cars could 'cut air pollution to almost zero and make car parks obsolete within 10 years'

'We're likely to see a huge shift in how our cities look and how transport is managed'

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People look towards an autonomous self-driving vehicle, as it is tested in a pedestrianised zone, during a media event in Milton Keynes, UK Getty

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By BBC News Staff

🕒 26 July 2017

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pod-point.com

Factcheck: Misleading Headlines About Electric Car Charging While Boiling the Kettle