

Keeping the Nation Moving

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Keeping the
Nation Moving
Time to face the facts

November 2011



Department for
Transport

Road Transport Forecasts 2011

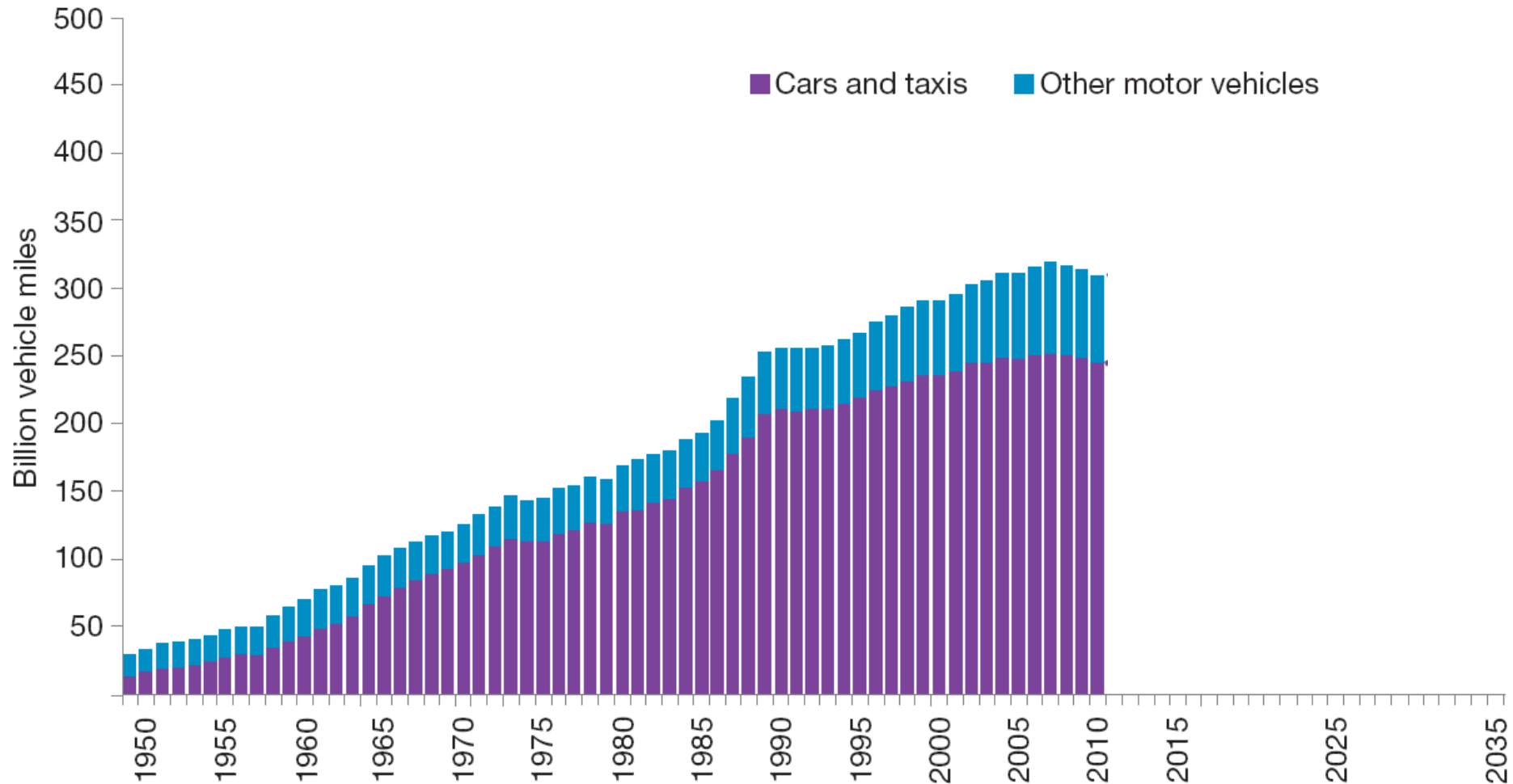
Results from the Department for
Transport's National Transport Model

January 2012

www.racfoundation.org

The history of traffic

Figure 1: All vehicle traffic Great Britain, 1950–2010⁹



Why we are where we are

- More people

In 1950 UK population was 50 million

In 2010 UK population was 62 million

- More cars

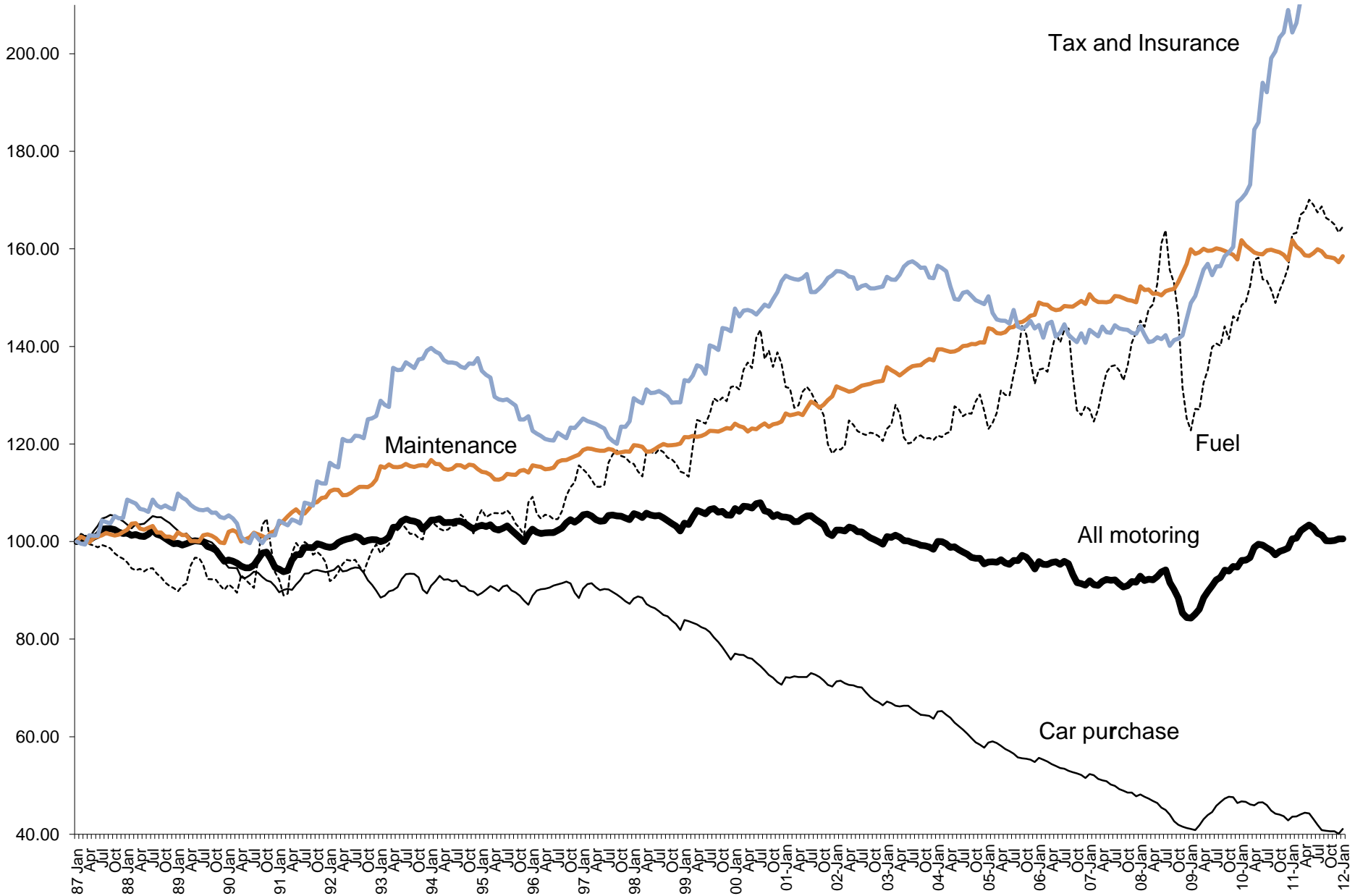
In 1950 there were 4 million vehicles in GB

In 2012 there are 34 million vehicles in GB

Cars are more affordable than ever to buy (not run)

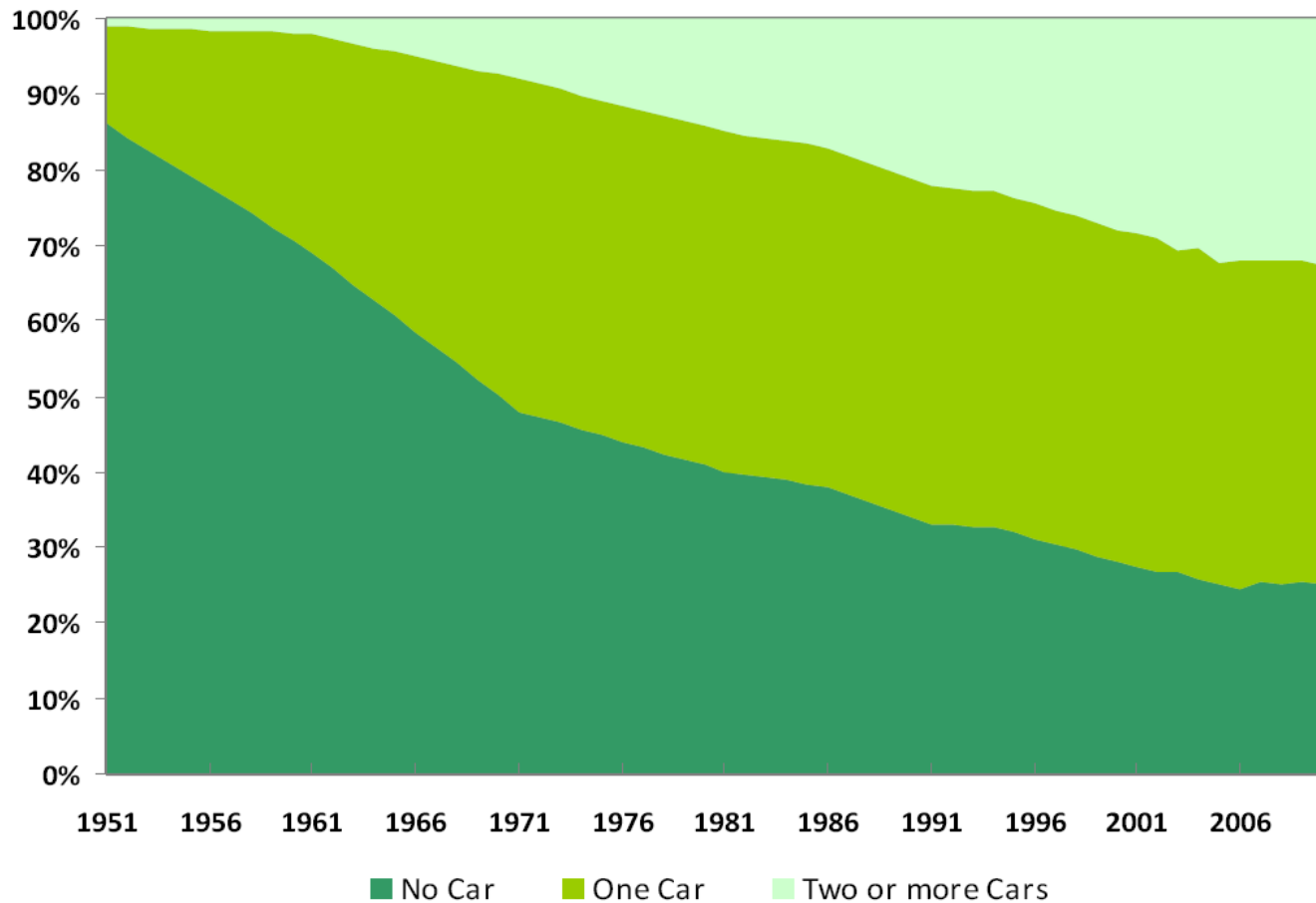
Motoring Price indices relative to Prices of all Items

January 1987 = 100 to January 2012



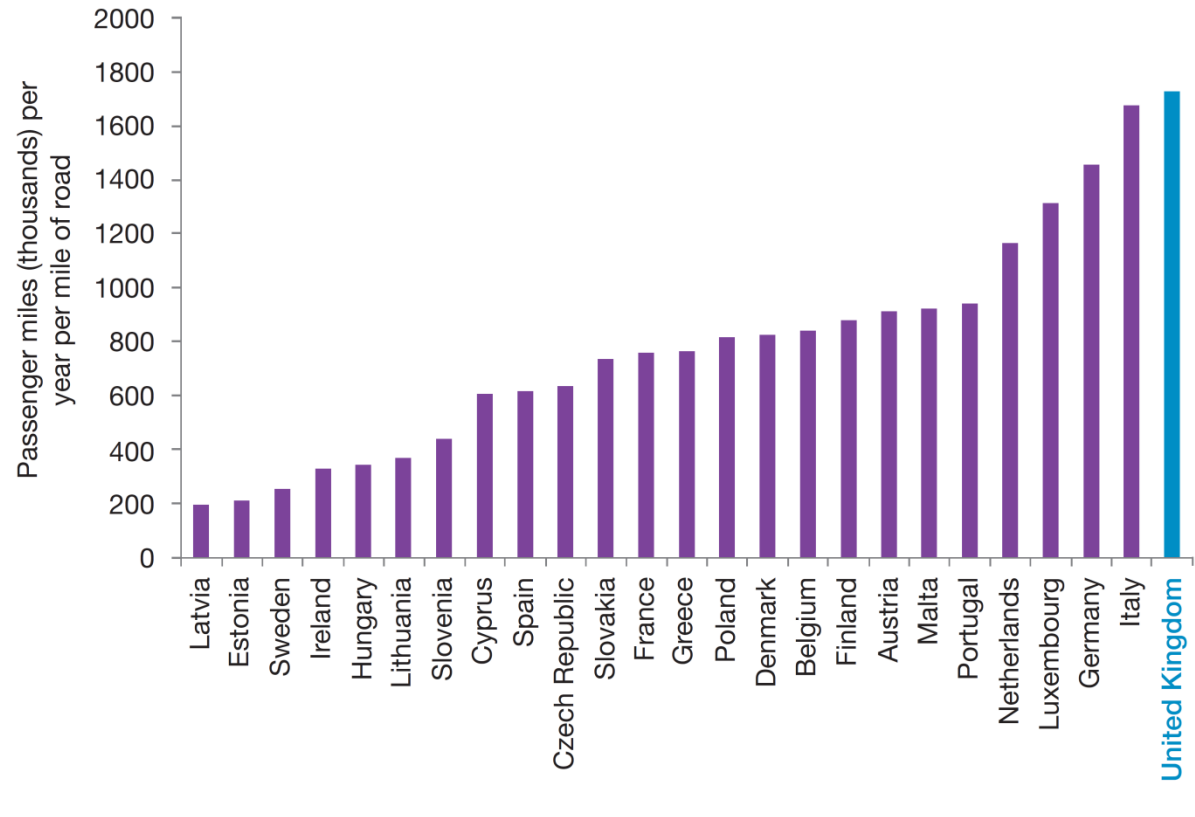
Car owning society

Figure 3.3: Household car availability: Great Britain, 1951 to 2010



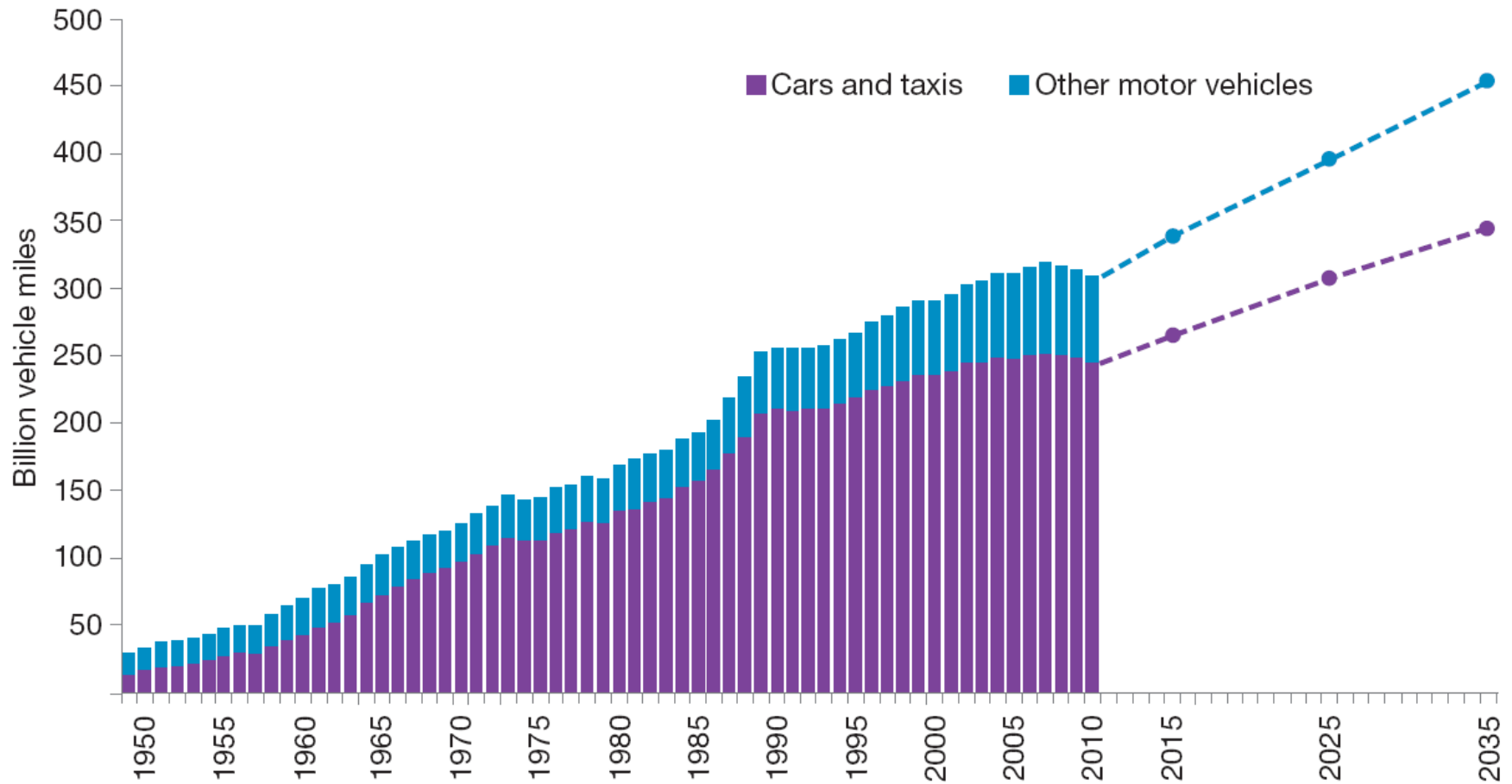
Person Traffic Density

Figure 4: EU road passenger density¹⁶



The future

Figure 1: All vehicle traffic Great Britain, 1950–2010⁹



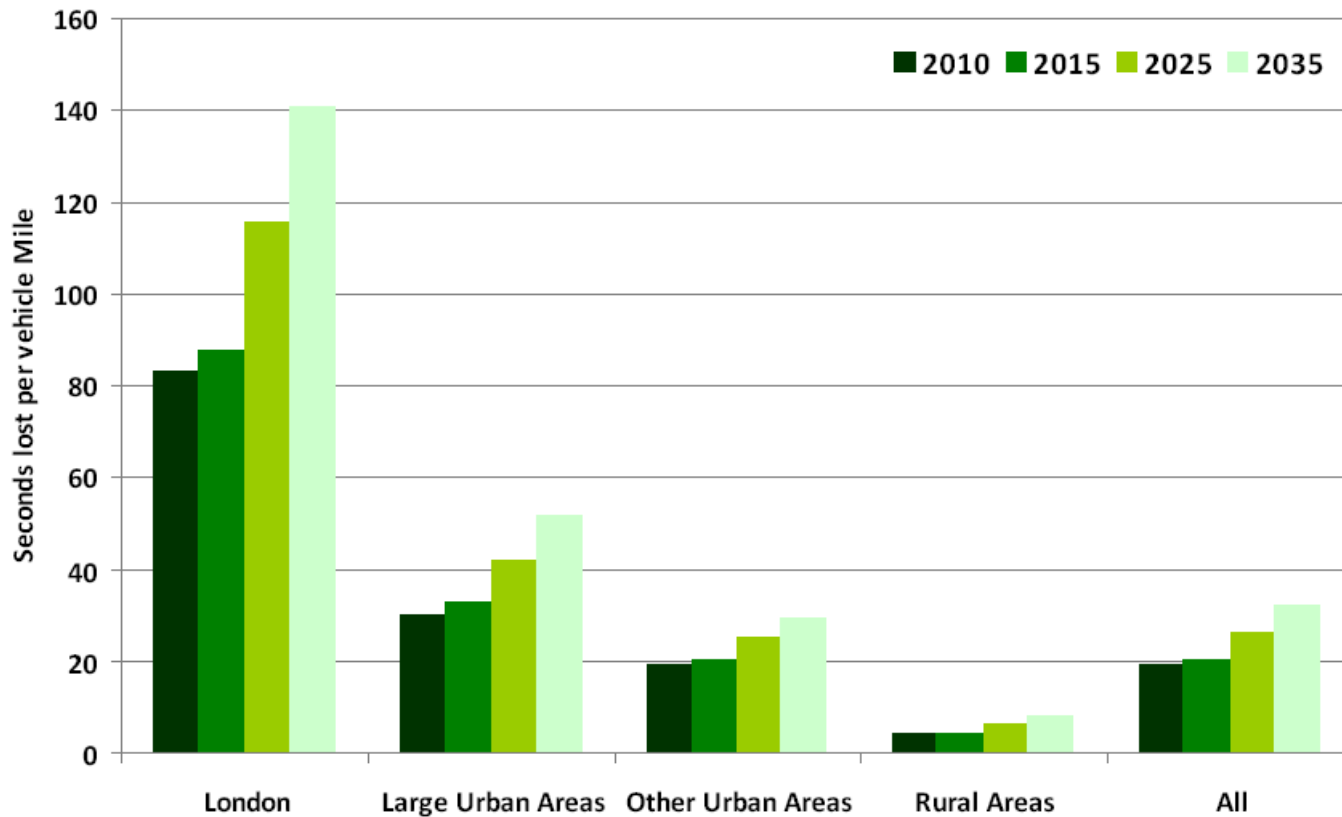
The future... in numbers

Table 4.4: Traffic and Measures of Delay, England

England (2010 modelled)	Year	London	Large Urban Areas	Other Urban Areas	Rural Areas	All
Traffic (Bn Vehicle miles)	2010	18.8	64.6	50.9	126.9	261.2
	2035	26.8	91.4	72.0	185.4	375.6
Congestion (Lost Sec's/Mile)	2010	83.5	30.3	19.4	4.0	19.2
	2035	140.9	51.6	29.5	8.1	32.3
Vehicle Speed (Miles/hour)	2010	16.0	25.0	26.3	49.2	31.6
	2035	12.8	21.8	24.5	46.8	28.5
Proportion of all traffic travelling in very congested conditions ²⁹	2010	24%	14%	9%	2%	8%
	2035	42%	24%	17%	9%	17%

Source: NTM 2011 - 2010 numbers in table are modelled.

Figure 4.7: Congestion by Area Type, England



Source: NTM 2011 - 2010 numbers in figure are modelled.



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Money, money, money - roads

- 91% of passenger miles on the roads
- UK drivers pay £27 billion in fuel duty and £6 billion in VED alone.
Total: £33 billion before you add in VAT, company car tax etc.
- Only £9 billion spent on roads



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Money, money, money - rail

- 8% of passenger miles takes place on the railways
- £7.6 billion spent on rail

Where should scarce resources be allocated?

- Benefit cost ratios aren't everything, but they're a damn good start.
- HS2 to Birmingham has BCR of 1.2 and is officially rated 'poor'
- Top ten unfunded road schemes listed by RACF & Arup in Nov '11 had BCRs above 6

The schemes are out there

Table 4: Top ten unfunded projects as ordered by published benefit: cost ratios⁴⁶

Project	Cost (£ million, 2010 values)	BCR
A21 Tonbridge to Pembury Dualling	117	11.0
Leeds Inner Ring Road	43	10.0
A18-A180 Link	8	9.7
Kingskerswell Bypass	110	8.0
A453 Widening (M1 Junction 24 to A52 Nottingham)	153	7.8
A47 Blofield to North Burlingham	26	7.1
A45 Westbound Bridge	13	7.0
A5-M1 Link (Dunstable Northern Bypass)	146	6.5
Evesham Bridge Maintenance	14	6.4
A38(M) Tame Viaduct	31	6.3

PM weighs in

- “... there is nothing green about a traffic jam and gridlock holds our economy back. [We should] widen pinch points, add lanes to motorways by using the hard shoulder to increase capacity and dual overcrowded A-roads.”

David Cameron, ICE 19 March 2012

Priorities

Preserve the infrastructure we already have

Prioritise work on the basis of need & value

Consider how to deal with the impending
funding gap

THANK YOU

WWW.RACFOUNDATION.ORG