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# General Information

## about the Car Check-Statistics 2018

<b>Timescale of data capture:</b>	Q1 2016 until Q4 2017
<b>Geographical segmentation:</b>	Global with focus on the United Kingdom
<b>Brands:</b>	Volkswagen, Audi, Seat, Skoda, BMW, MINI, Mercedes
<b>Amount of checked vehicles:</b>	1 million vehicles globally
<b>Evaluated data:</b>	Fuel consumption, mileage fraud, average speed, trip distance, annual mileage, preview of Carly's vehicle fault statistics 2018

All data that underlie this evaluation refer to Carly users and have been compiled anonymously.



## Most important insight

**Actual fuel consumption and data stated by manufacturers differ by almost 75%**

**15% of all UK vehicles have been manipulated**

**Almost every other trip in the UK is less than three miles**

## **Conflict of interest:**

Over the years, the government regulations require less and less CO<sub>2</sub> emissions, but drivers want more powerful and more comfortable vehicles, but drivers want more powerful and more comfortable vehicles.

These two goals collide.



**With each new, legal CO<sub>2</sub> reduction, manufacturers have to reduce fuel consumption.**

**The real fuel consumption differ more and more, because these consumption results only have to be proven on the dynamometer.**

# Conclusions about fuel consumption

The actual amount of fuel used, and fuel consumption data given by the manufacturer differ by as much as 75%

Small diesel cars consume up to 55% more than specified by the manufacturer

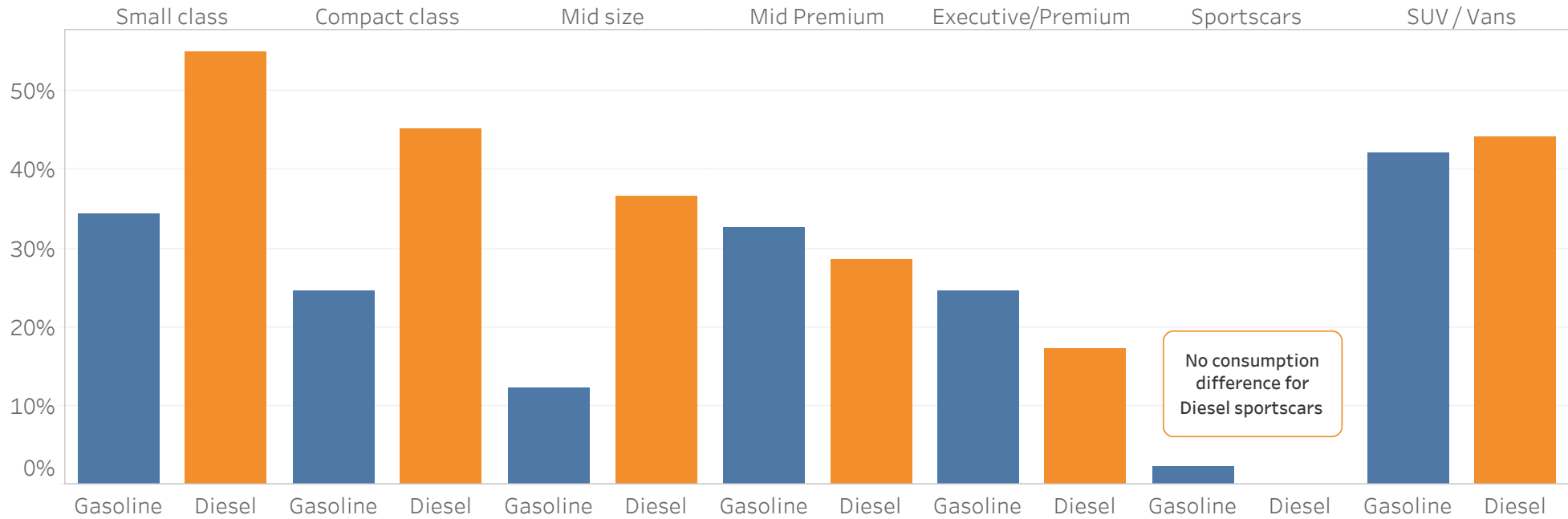
The biggest difference in actual consumption and specified consumption by the manufacturer are found in small and compact class cars and SUVs



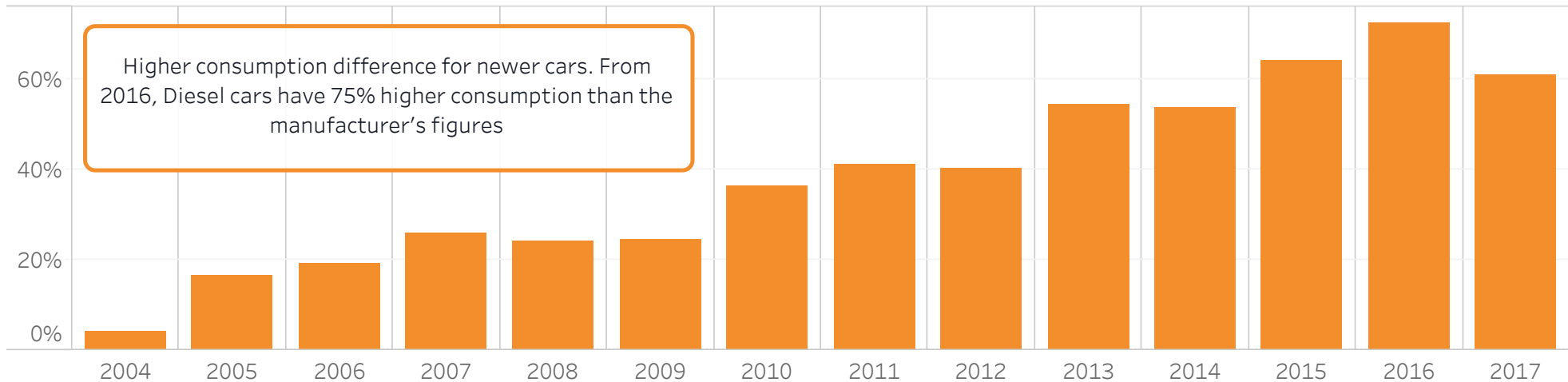
# Fuel Consumption

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## Real Fuel-Consumption compared to manufacturer information

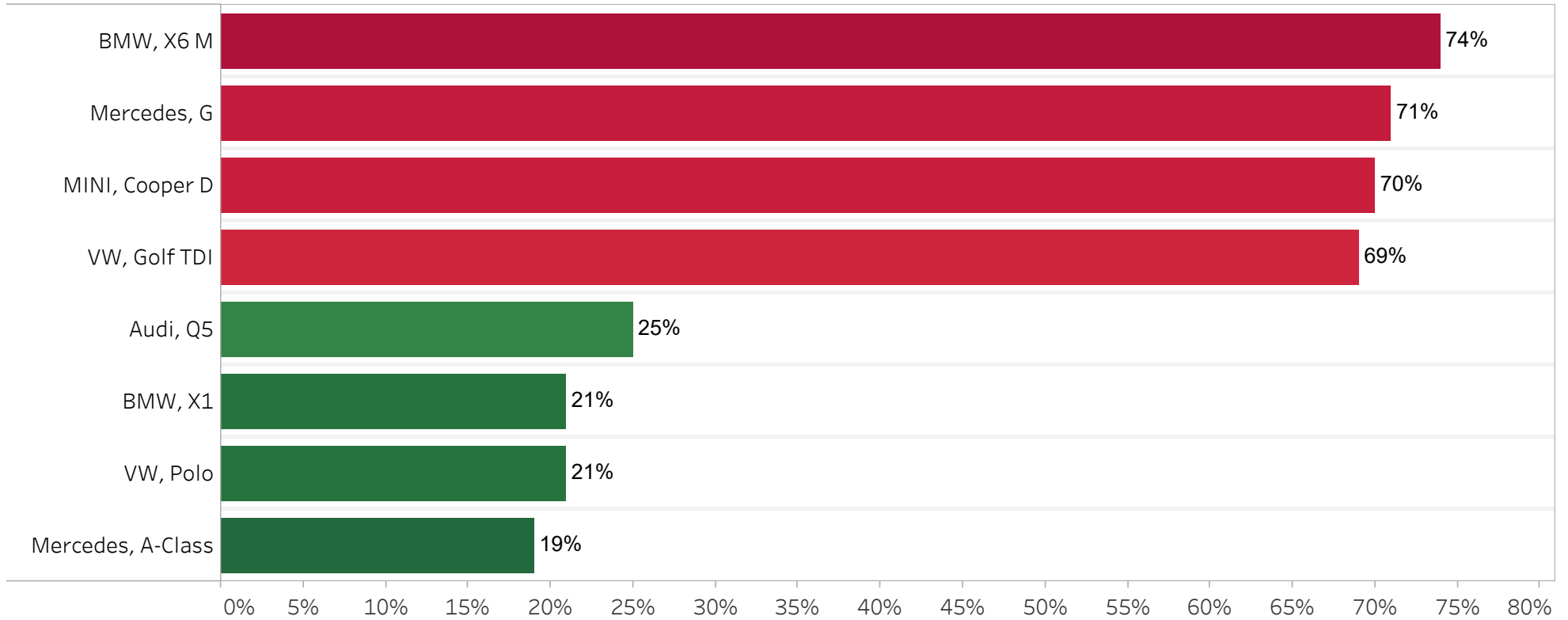


## Real Diesel Fuel-Consumption compared to manufacturer information



## Top and Flop for Additional Fuel Consumption

Additional fuel consumption of selected vehicles in UK compared to manufacturer data





# Conclusions about average speed

The average UK speed has risen continuously in recent years

UK drivers are slightly slower than European counterparts,  
with an average speed of 23mph

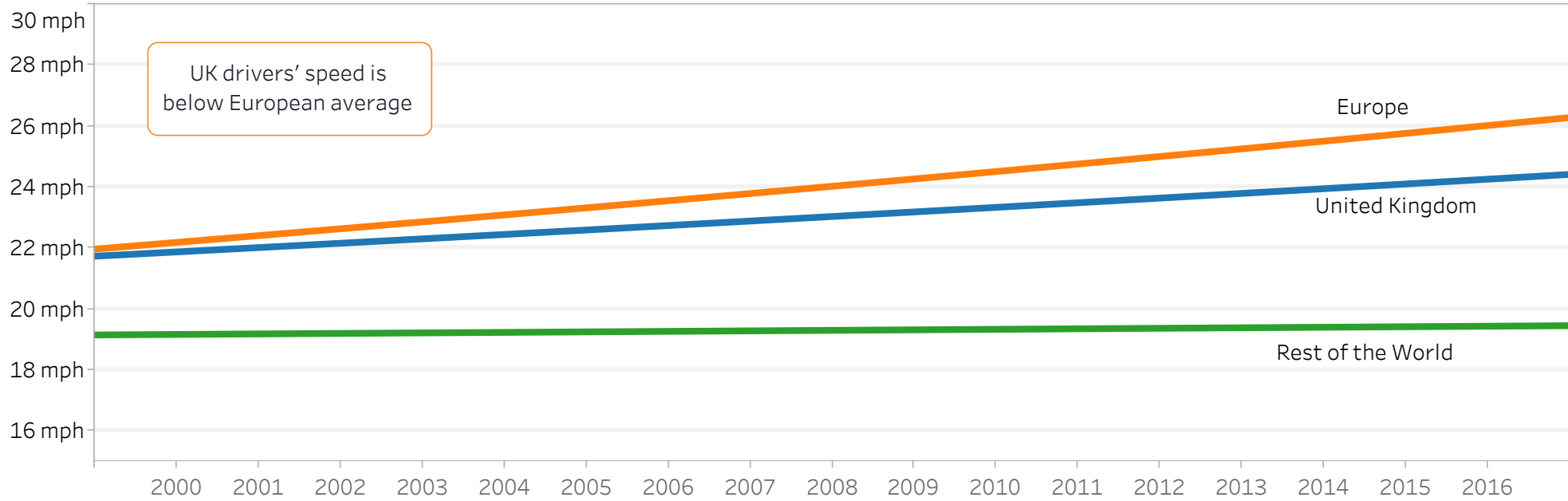
Diesel vehicles are driven 15% faster than petrol



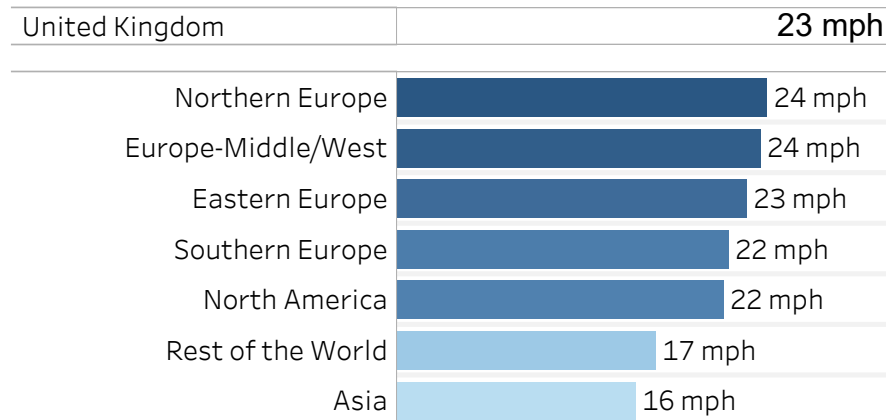


# Average Speed

Average Speed per build year and region



Average Speed per region in comparison to UK



Average Speed per fuel type in UK





# Conclusions about average trip distance

Average trips in the UK have decreased by 36% over the last 20 years

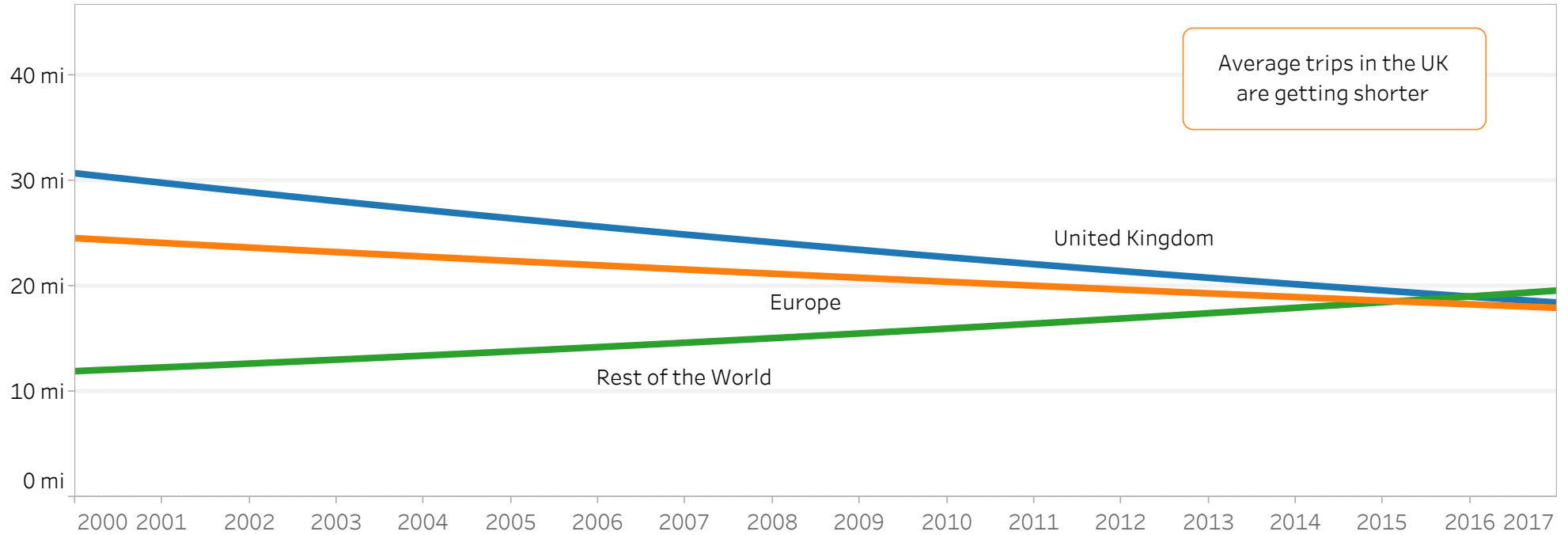
The distance travelled during the average journey has declined in Europe, whereas the opposite is true throughout the rest of the world, where long haul trips have increased year-on-year

Almost every other trip in the UK is less than three miles



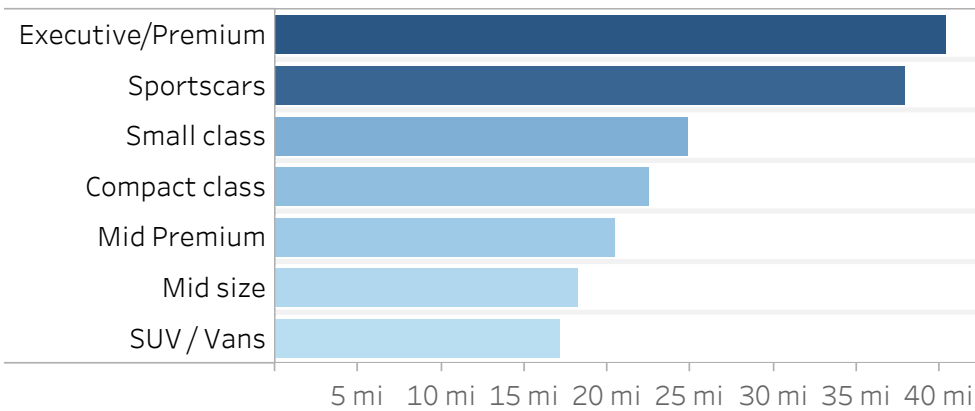
# Trip Distance

Average trip per build year and region

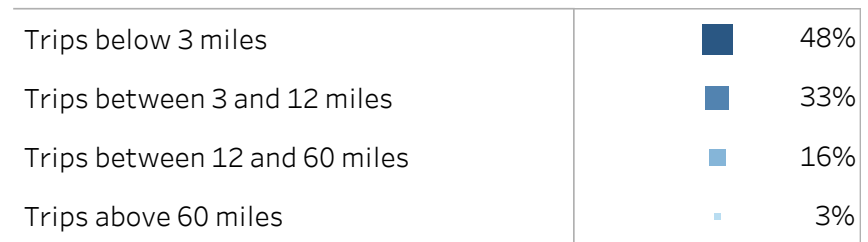


Average trips in the UK are getting shorter

Average trip per vehicle class in UK



Driving Profile in UK





# Conclusions about annual mileage

Despite the trend towards short trips,  
annual mileage has more than doubled in the UK since 1999

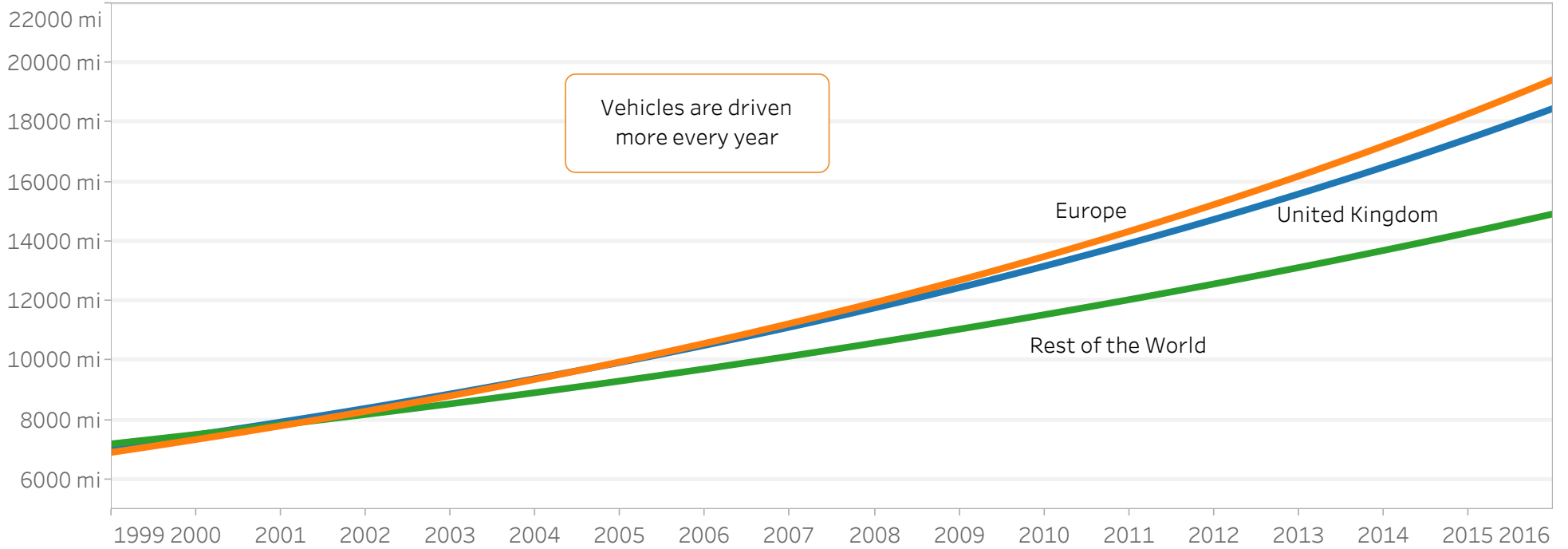
Executive vehicles cover the most miles per year in the UK,  
averaging over 15,000

Diesel vehicles travel almost 30% more miles than petrol cars in the UK per year

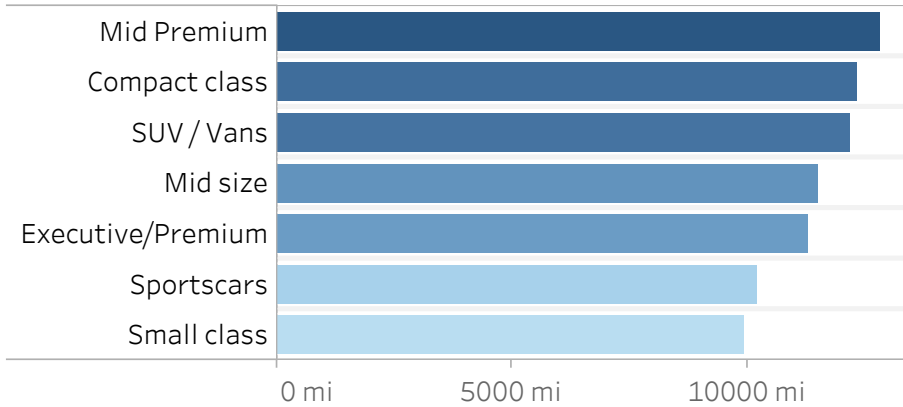


# Annual Mileage

Annual Mileage per build year and region



Annual Mileage per vehicle class in UK



Annual Mileage per fuel type in UK





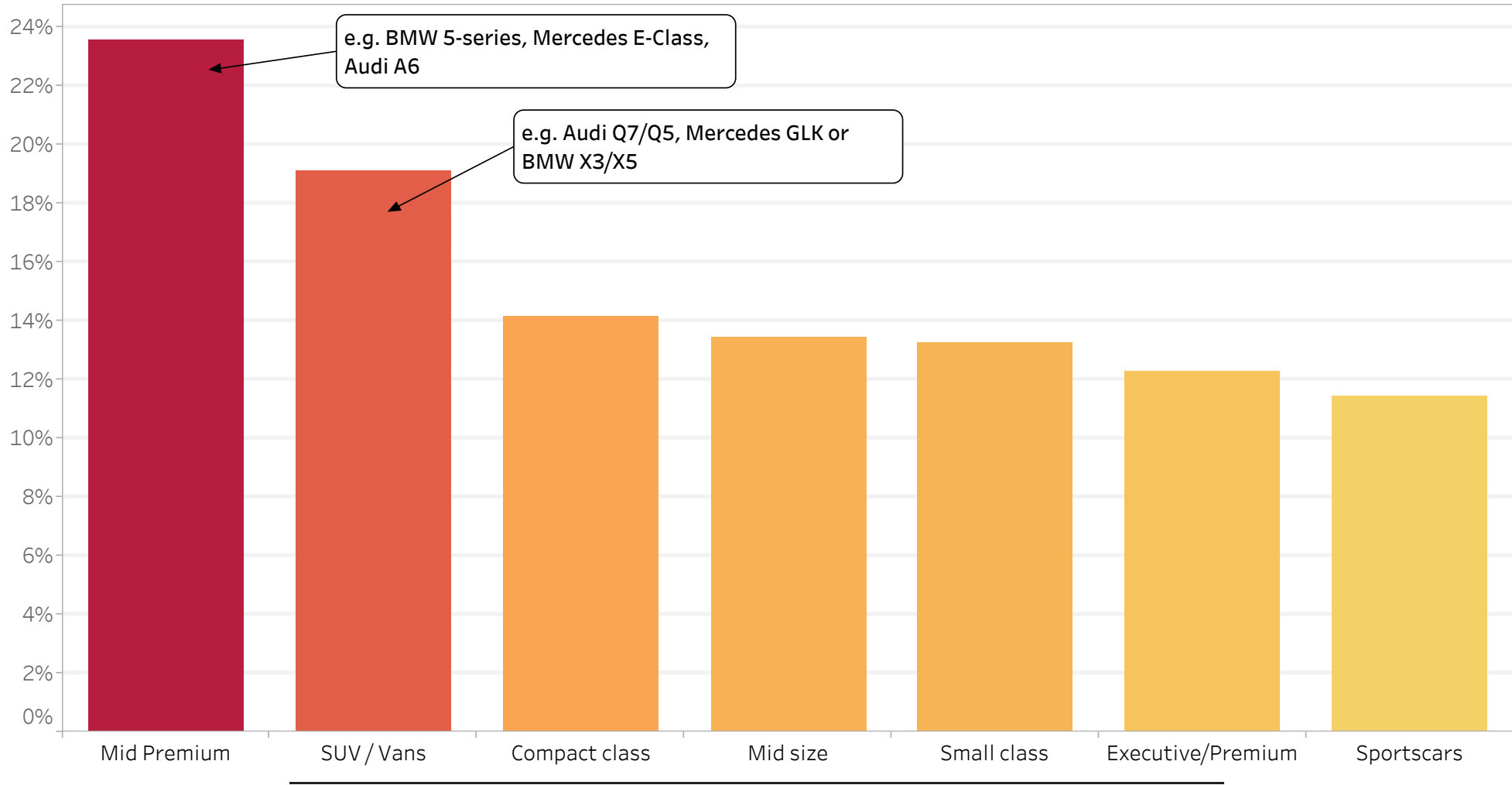
# Conclusions about mileage fraud

15% of all vehicles in the UK have had their mileage digitally altered, for executive vehicles it's 23%

Petrol vehicles are more likely to display incorrect mileage than diesel

Mileage fraud in the UK is highly dependent on region –  
up to 18% in some local areas

## Mileage Fraud per vehicle class in UK

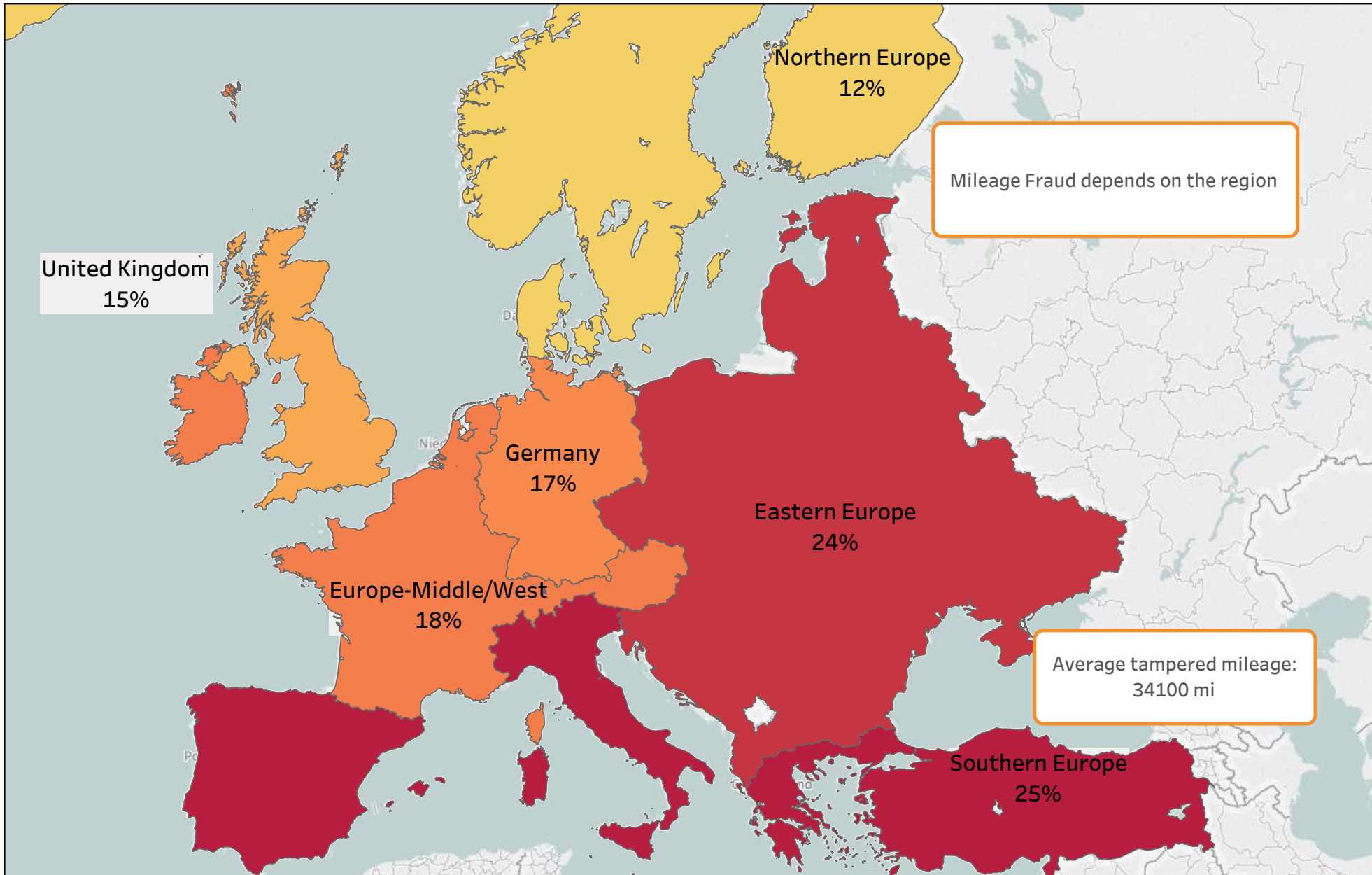


## Mileage-Fraud per fuel type in UK



# Mileage Fraud

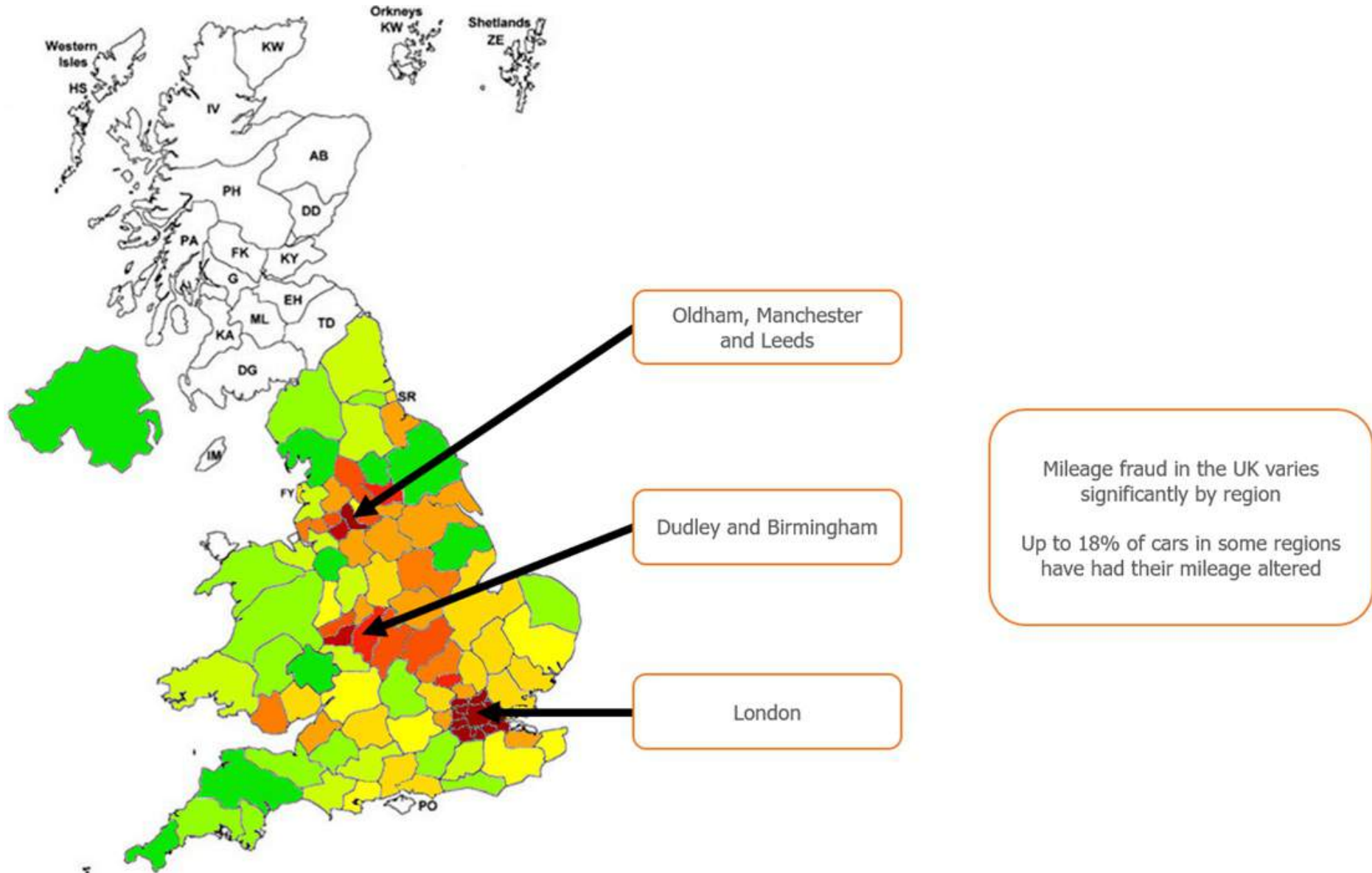
## Mileage Fraud per region





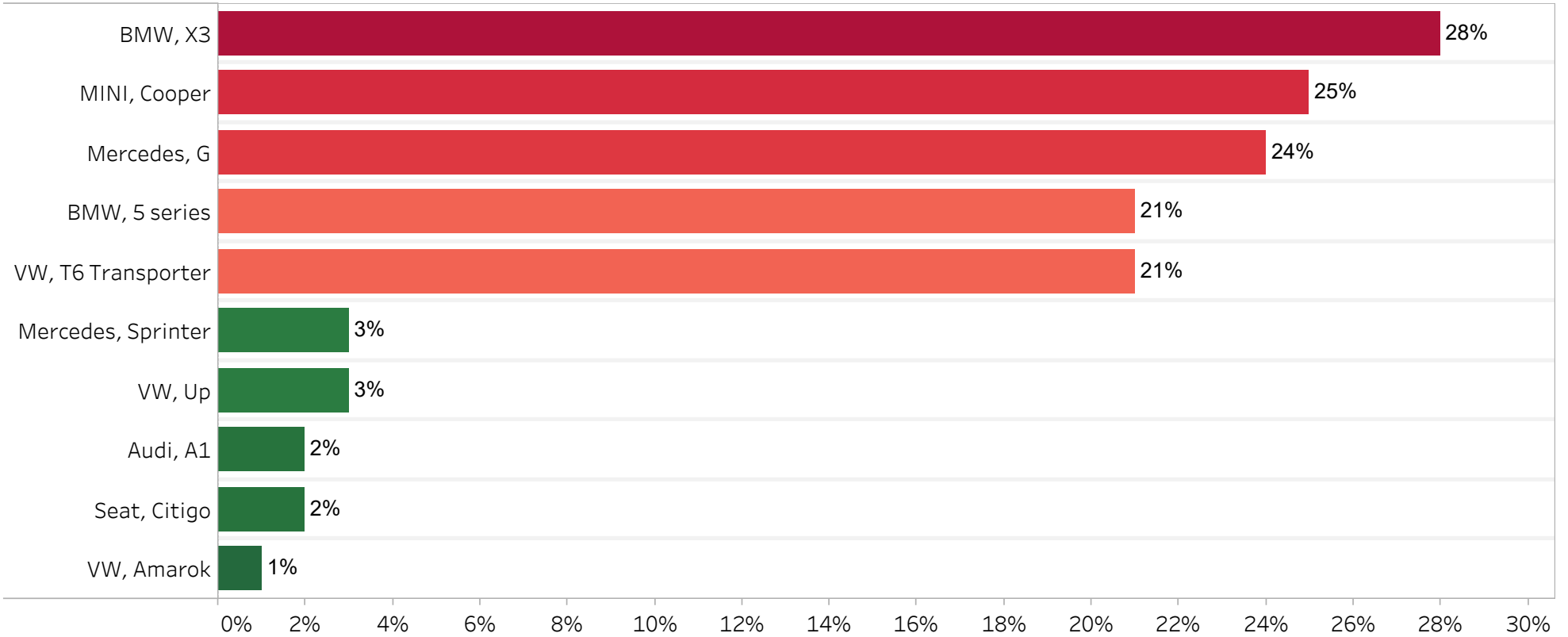
# Mileage Fraud

## Mileage Fraud per region (UK-specific)



## Top and Flop for Mileage Tampering

Tampering-Rate of selected vehicles in UK





# Carly's vehicle fault statistics 2018

Carly will publish statistics about breakdowns in 2018.

This will include data about fault codes and ECU data – for example:

- What are typical mistakes for small cars in winter?
- What are the 10 most common electronics problems depending on the vehicle class?
- How do error rates differ by brand?

Below is a little teaser:



# Teaser for Carly Vehicle Fault Statistics 2018

## Top 10 Reasons for Vehicle Warnings

