

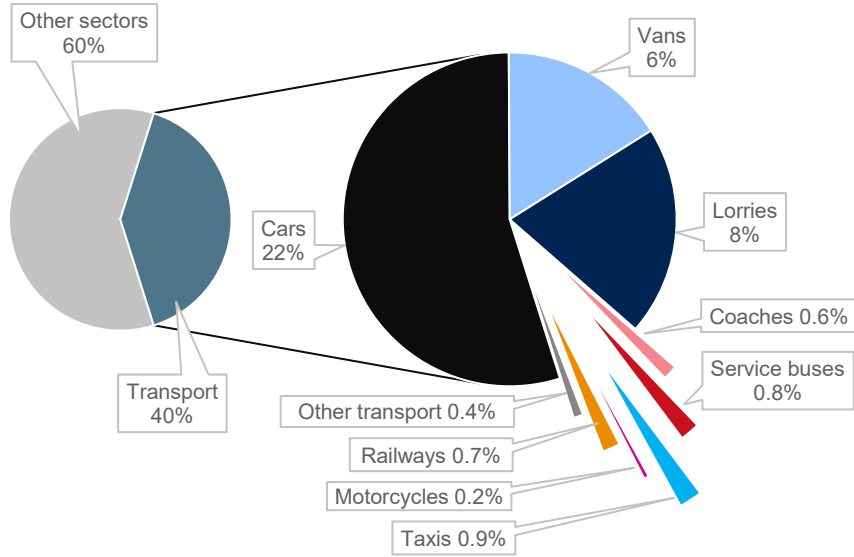
# Transport CO<sub>2</sub> emissions in Rotherham

# Context

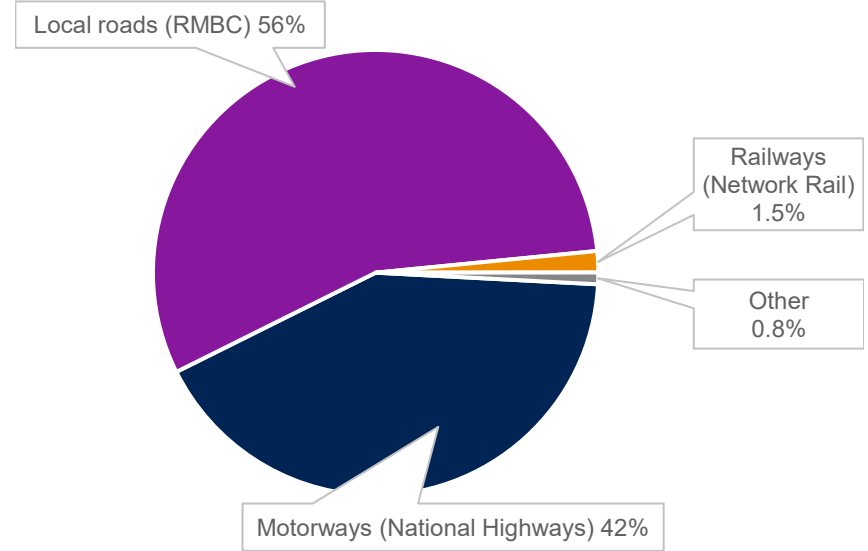
- Information derived from regional transport model and emissions modelling
- Adjustments have been made to account for unmodelled emissions –
  - Short trips
  - Unmodelled modes e.g. motorcycles
  - Emissions associated with production of motor fuel
- Estimates of car emissions beyond the geographical scope of the model are based on CREDS Place Based Carbon Calculator
- Figures are for 2019

# Transport emissions in Rotherham

## Emissions in Rotherham ...by mode



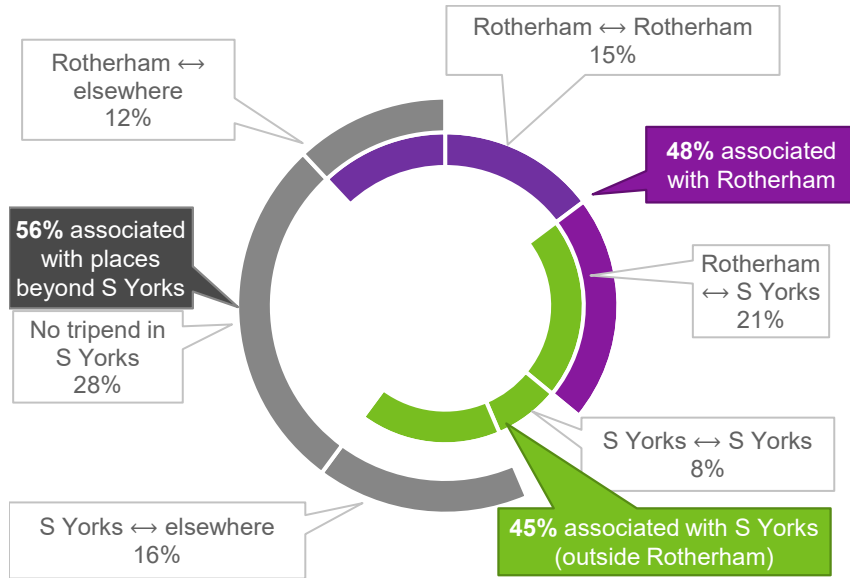
## ...by infrastructure



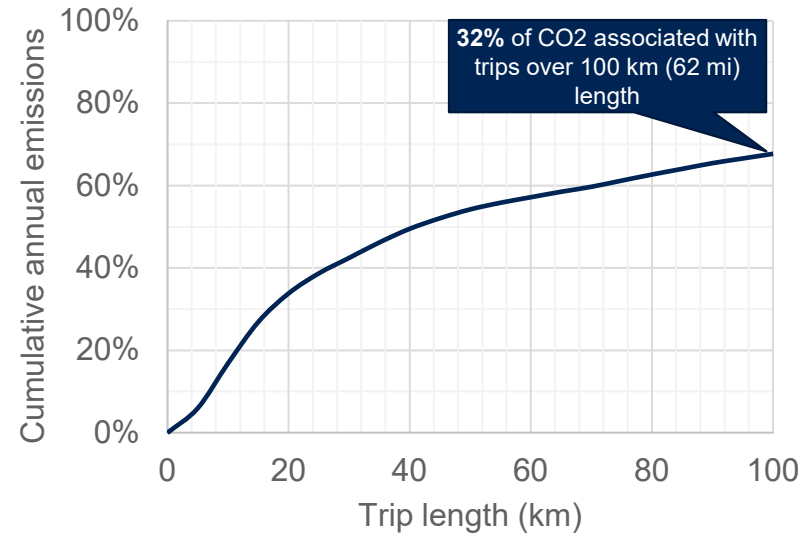
*Electrified modes not included in these figures*

# Transport emissions in Rotherham

## Emissions by trip scale



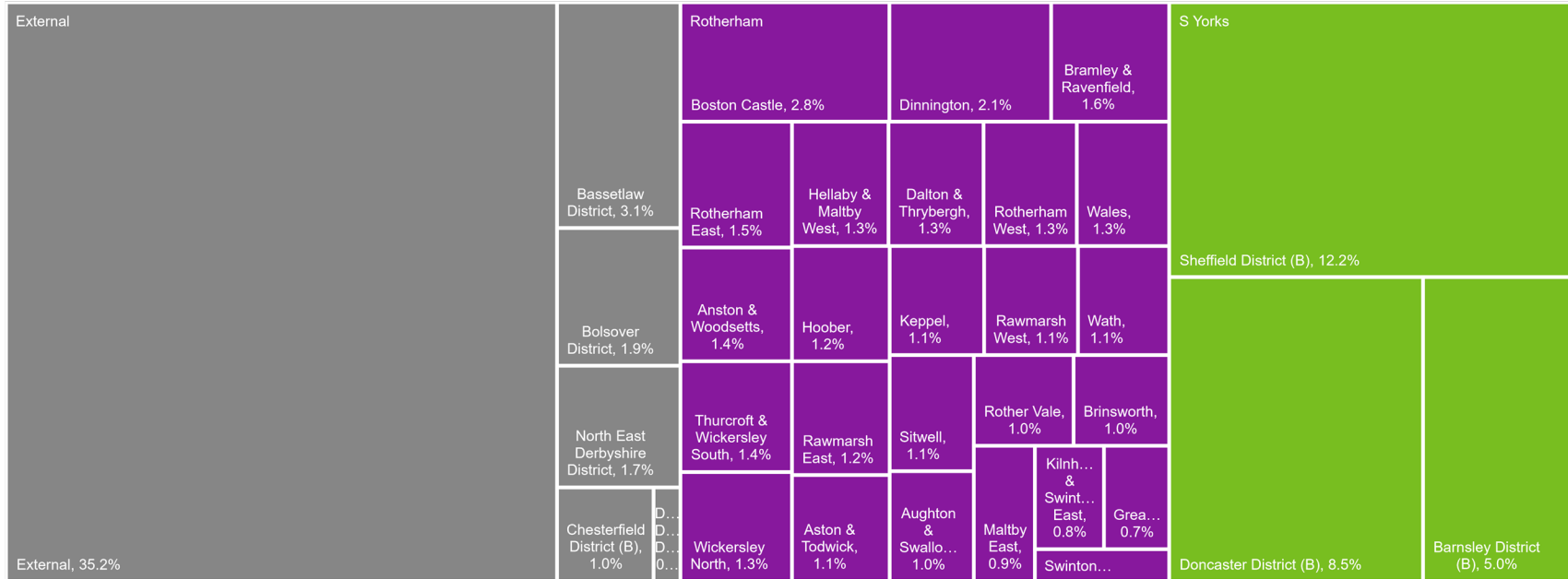
## Emissions by trip length



*These charts illustrate road transport emissions only*

# Road transport emissions in Rotherham by trip producer

Chart Title



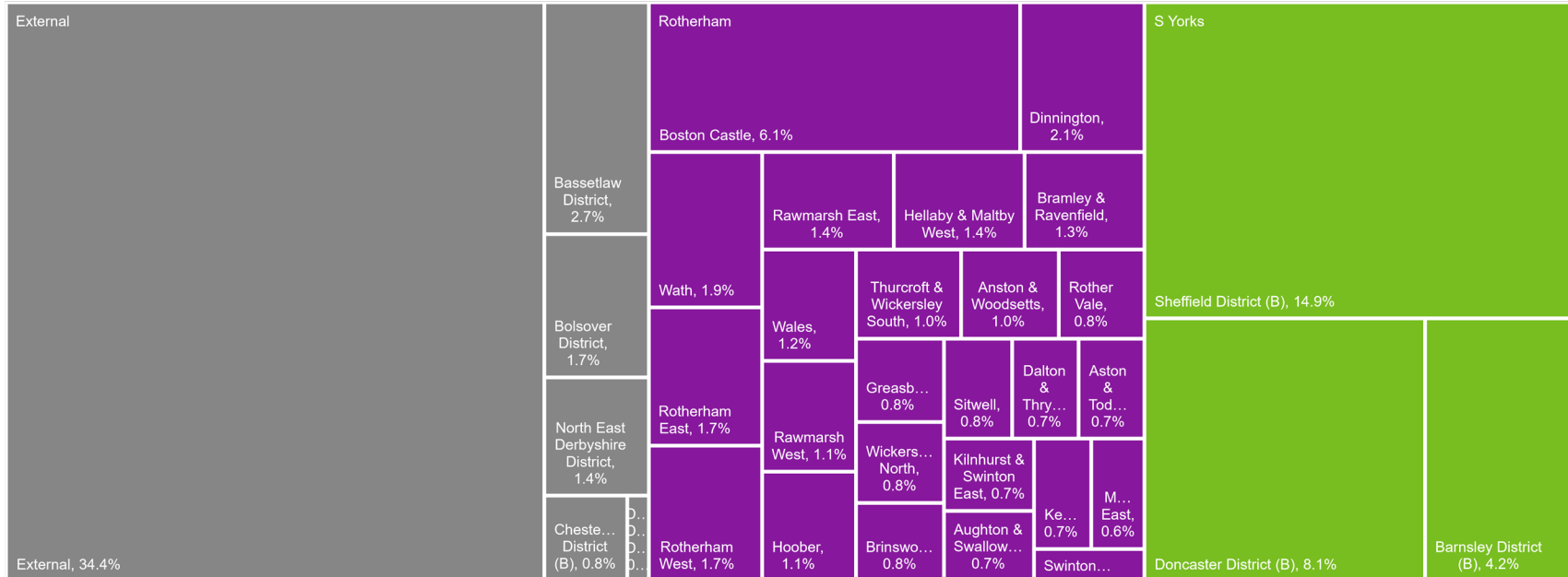
43% produced outside South Yorkshire

31% produced from Rotherham

26% produced from South Yorkshire

# Road transport emissions in Rotherham by trip attractor

Chart Title



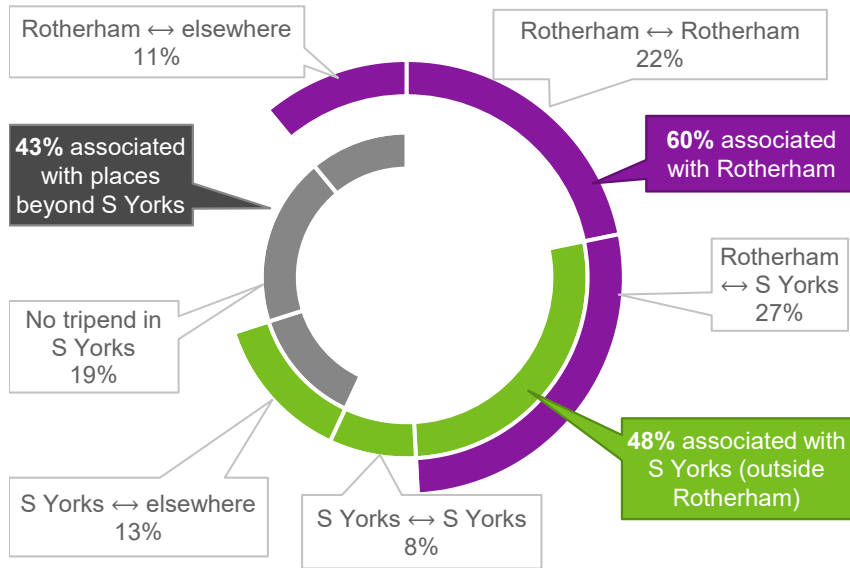
41% attracted to outside South Yorkshire

31% attracted to Rotherham

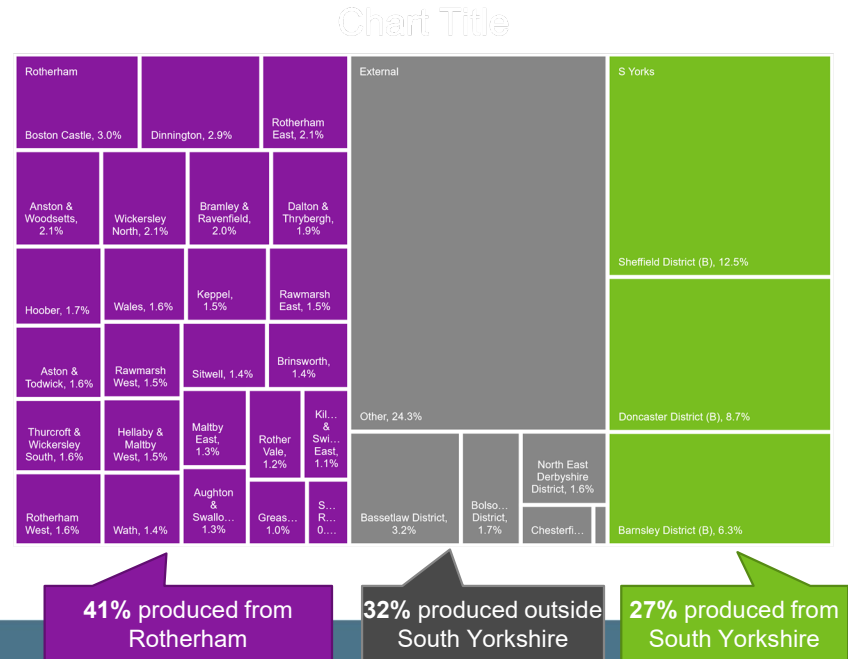
27% attracted to South Yorkshire

# Car emissions in Rotherham

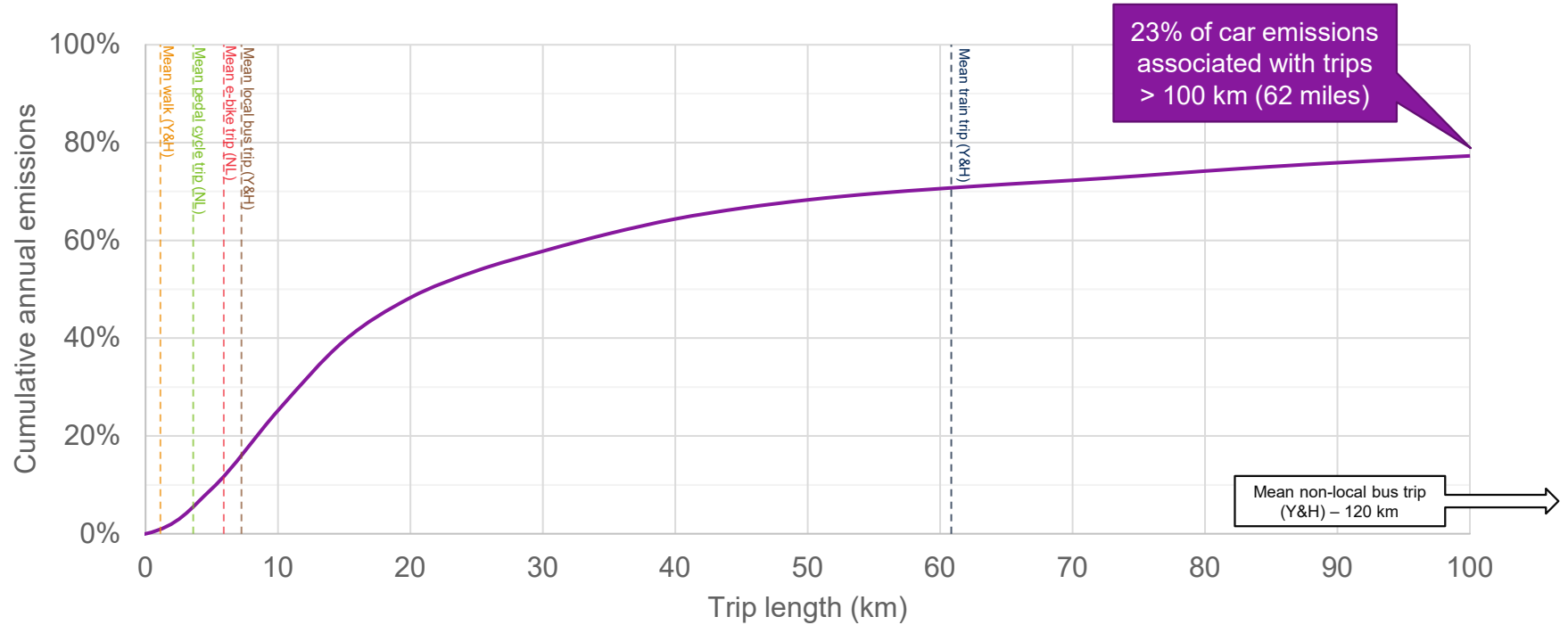
## Emissions by trip scale



## Emissions by trip producer



# Car emissions in Rotherham





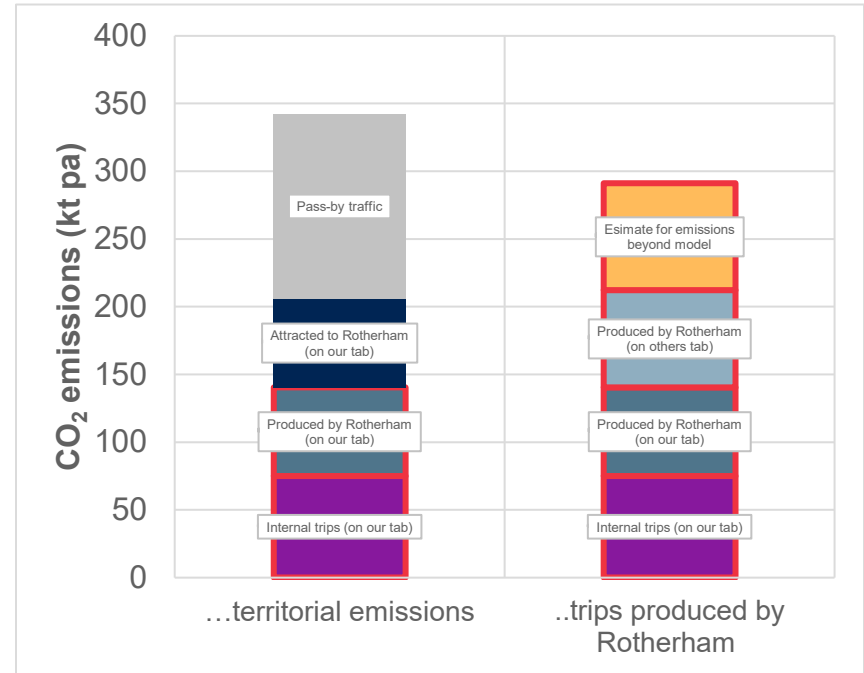
# On- and off- balance sheet emissions (cars)

Of car emissions in Rotherham

- 78% implicated partly with other districts
- 40% implicated wholly with other districts

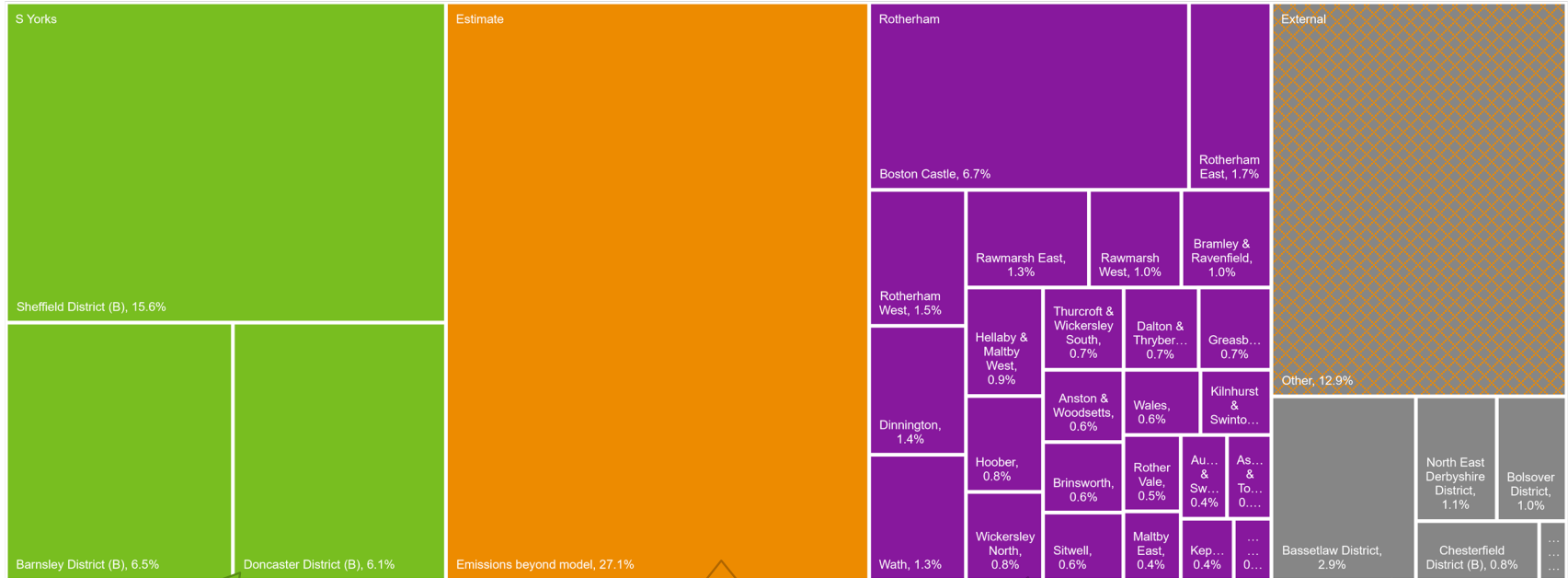
**BUT**

- ~48% of emissions associated with Rotherham appear on others' tabs



# Car emissions from trips produced by Rotherham

Chart Title



**28%** attracted to South Yorkshire

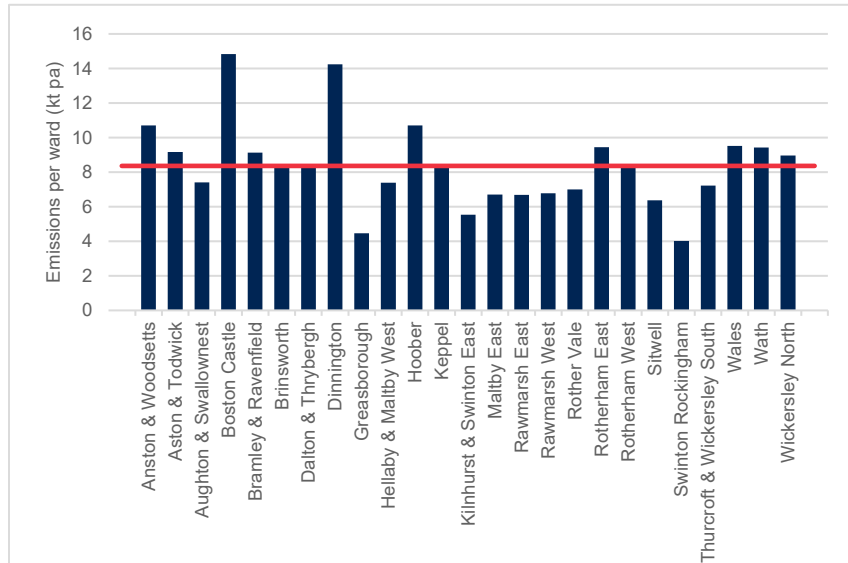
**27%** estimate for emissions beyond model scope

**26%** attracted to Rotherham

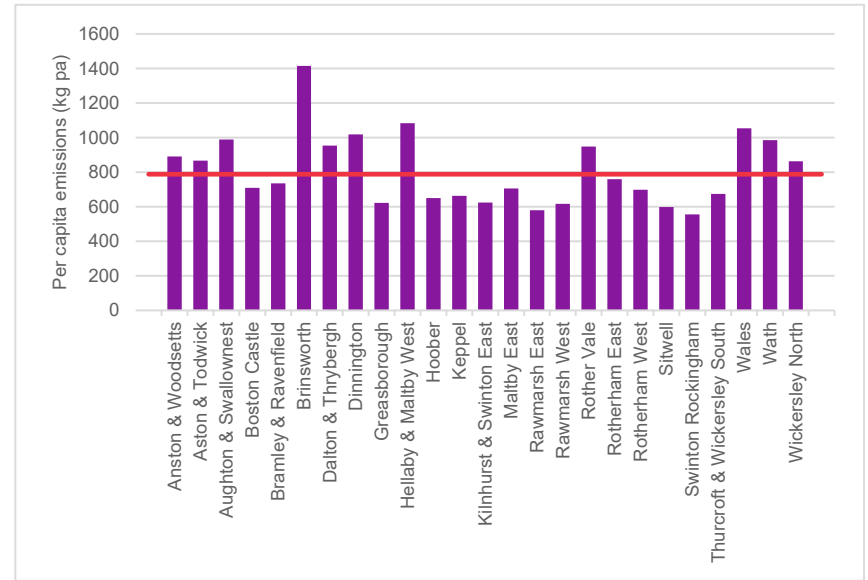
**19%** attracted beyond South Yorkshire

# Car emissions from trips produced by Rotherham

## Emissions produced by ward

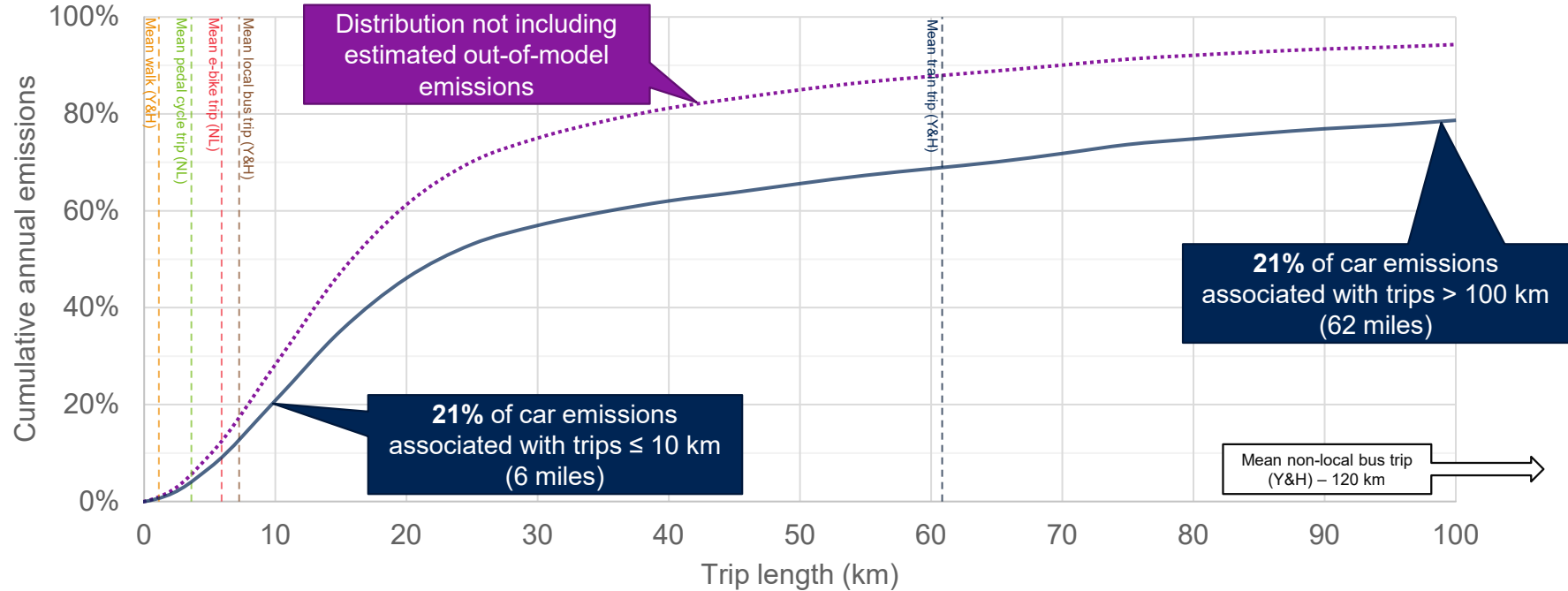


## Per capita emissions by ward

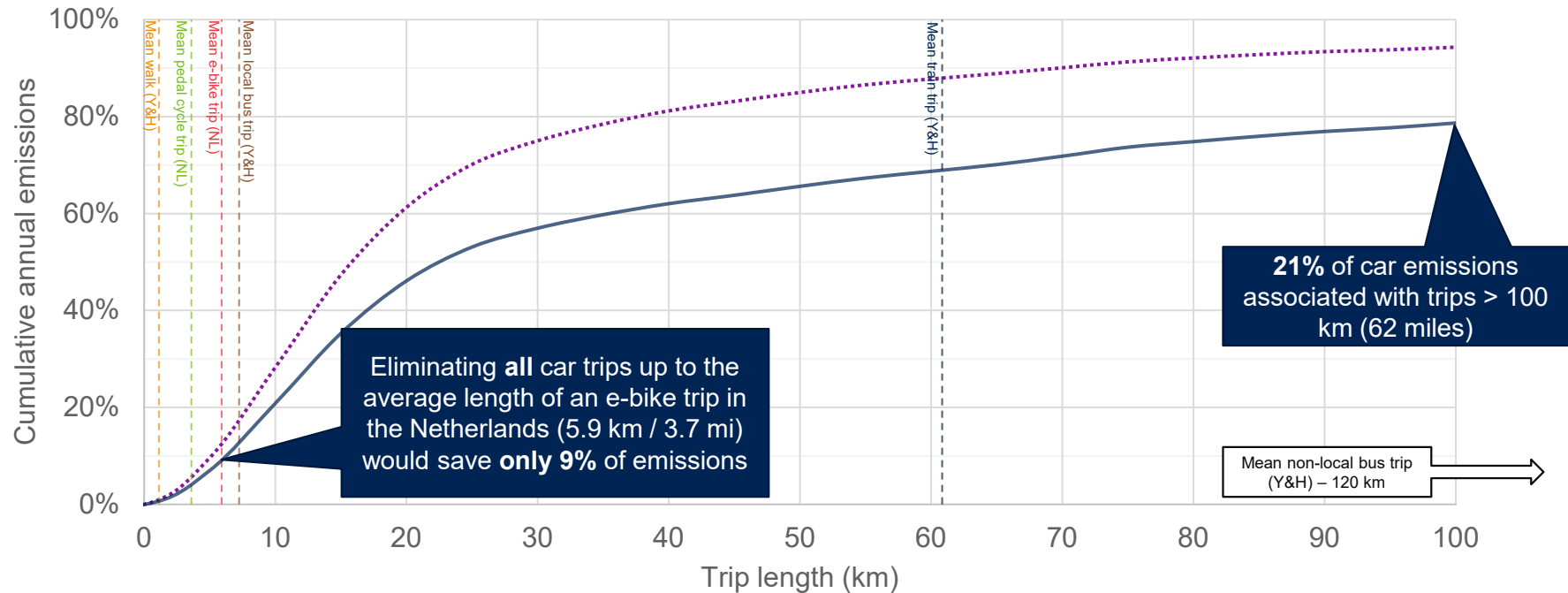


Note these charts do NOT include estimate of off-model emissions.  
Red lines indicate averages.

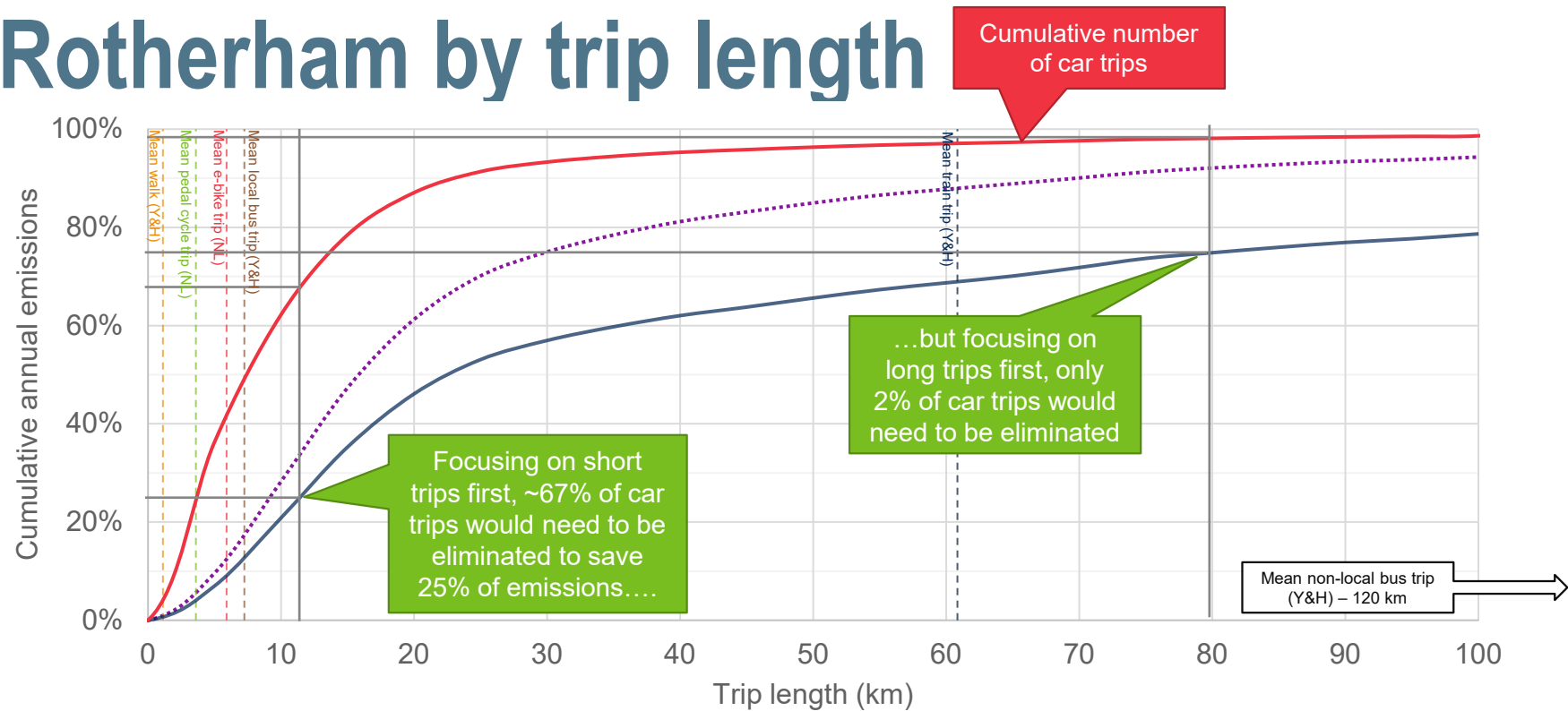
# Car emissions from trips produced by Rotherham by trip length



# Car emissions from trips produced by Rotherham by trip length

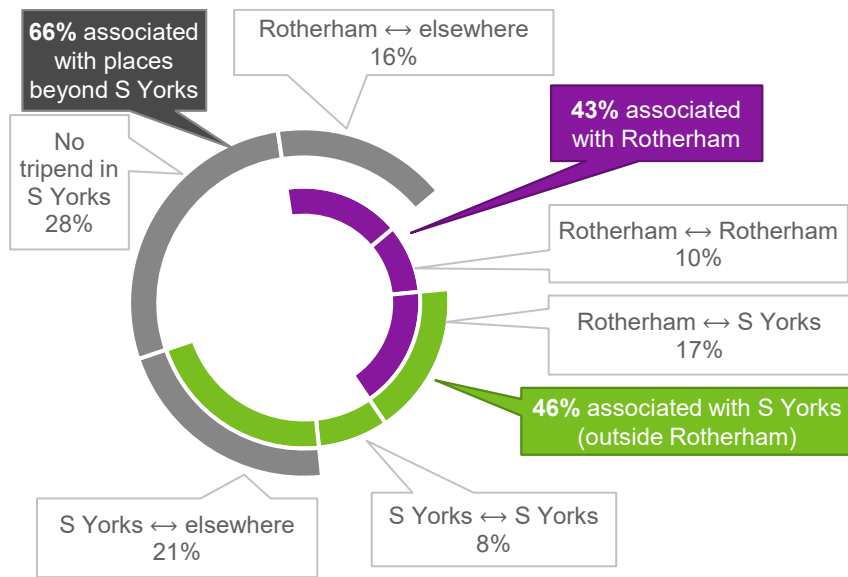


# Car emissions from trips produced by Rotherham by trip length

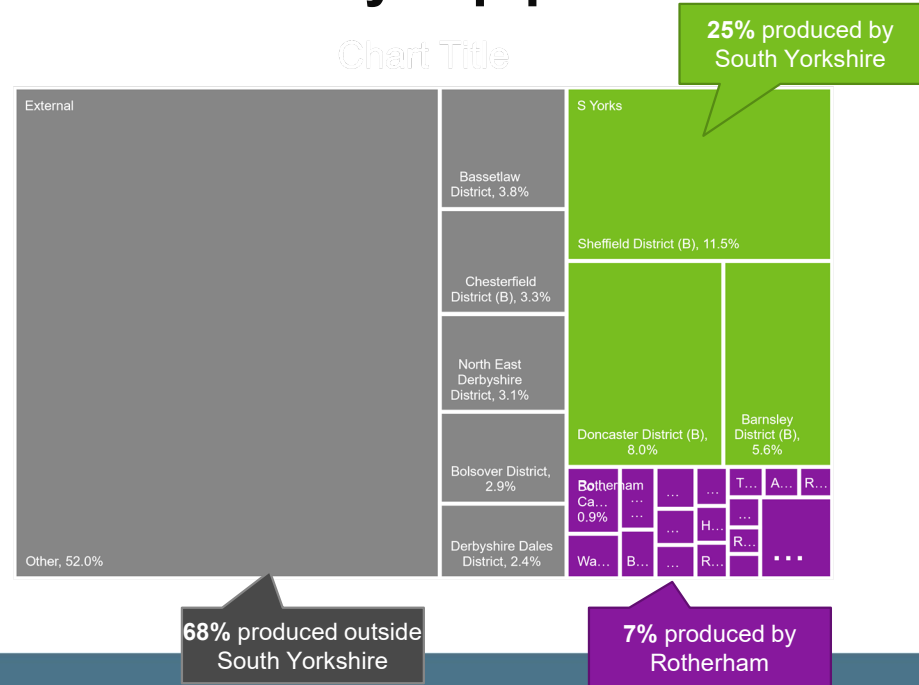


# Van emissions in Rotherham

## Emissions by trip scale

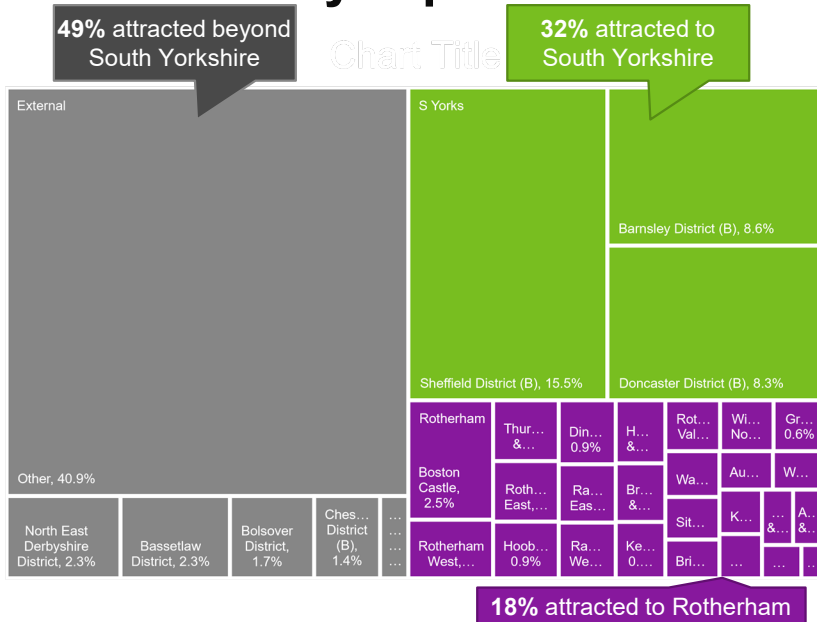


## Emissions by trip producer

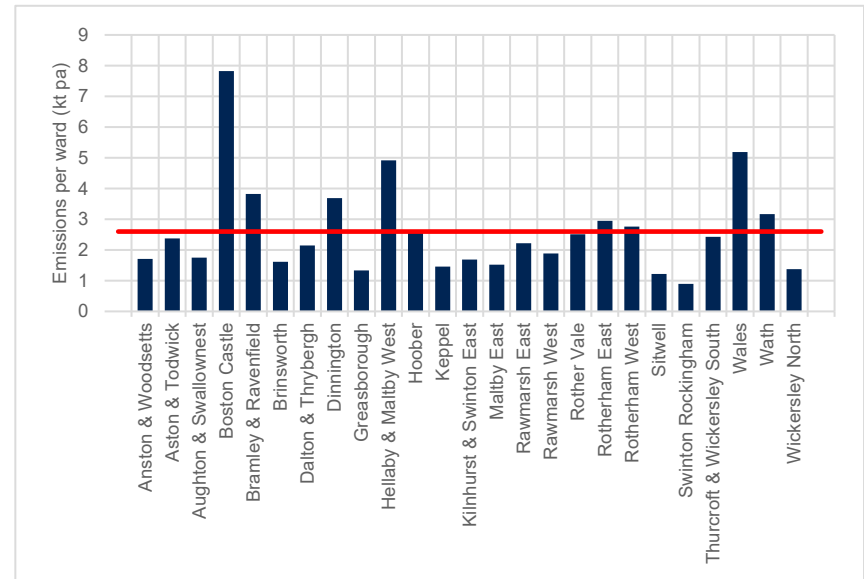


# Van emissions from trips produced by Rotherham

## Emissions by trip attractor



## Emissions by ward producing

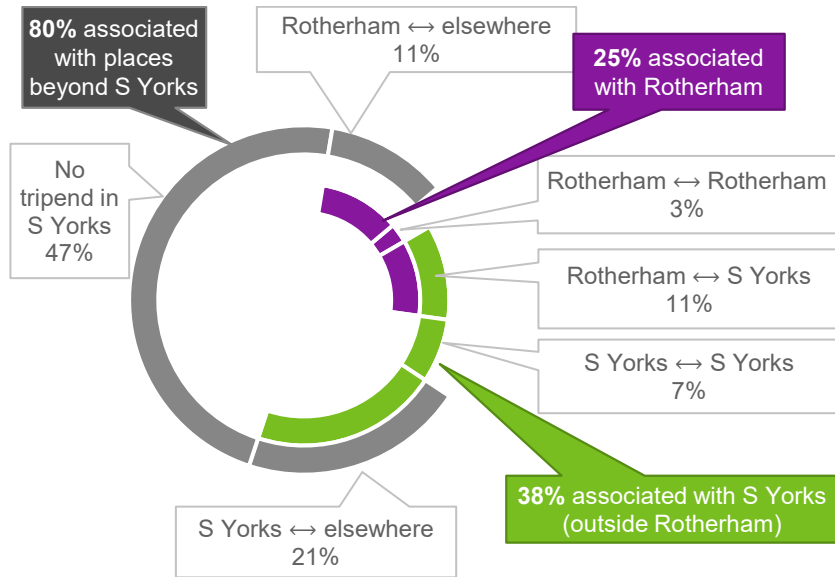


Note these charts do NOT include estimate of off-model emissions

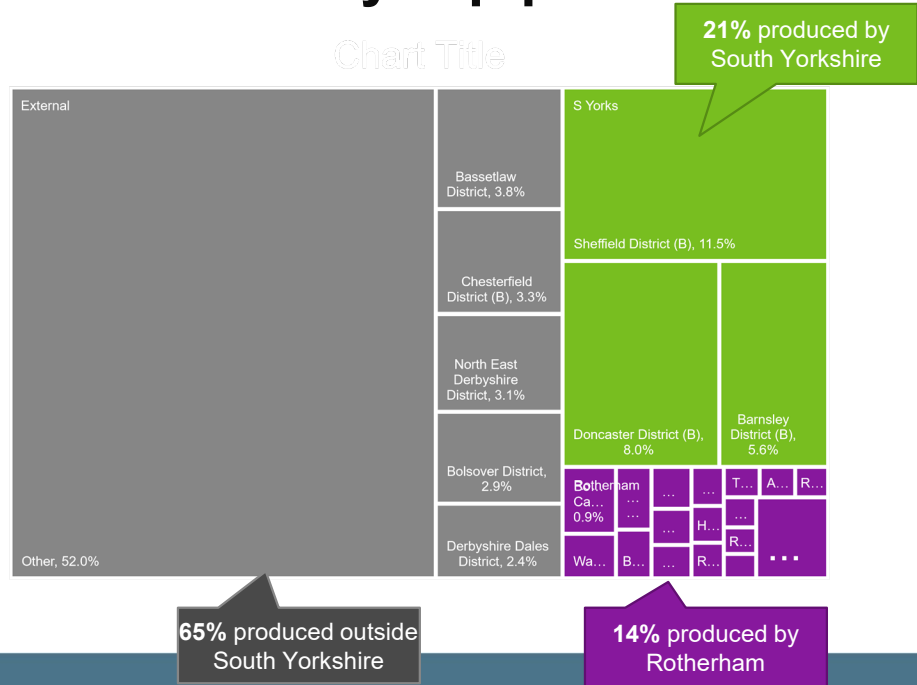


# HGV emissions in Rotherham

## Emissions by trip scale

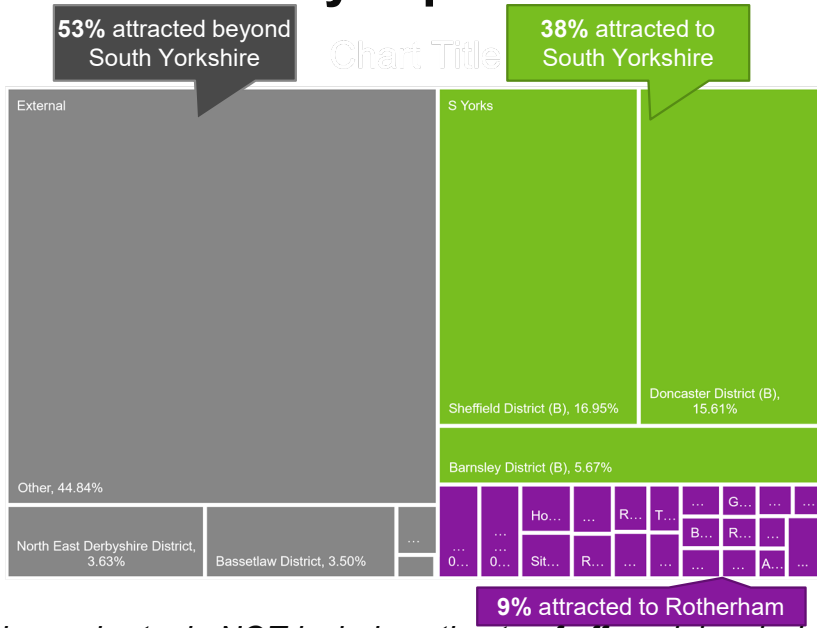


## Emissions by trip producer

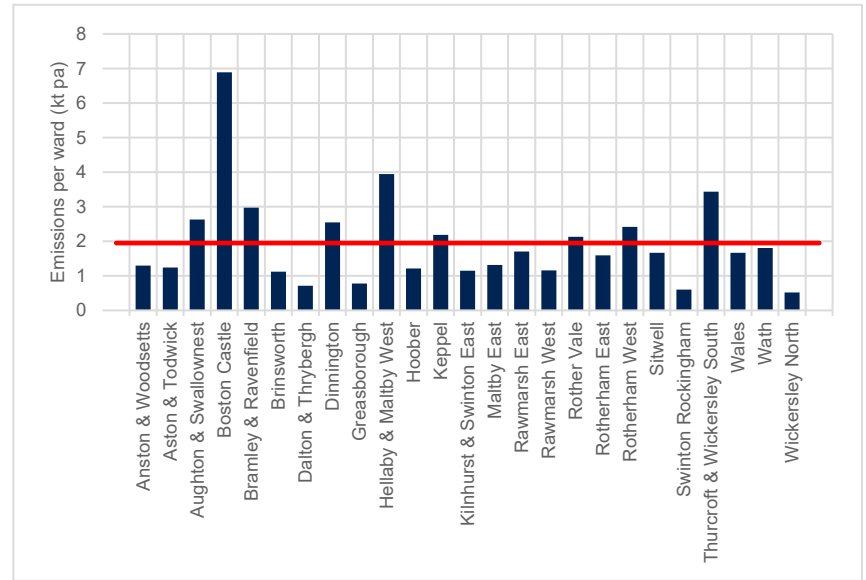


# HGV emissions on trips produced by Rotherham

## Emissions by trip attractor



## Emissions by ward producing



Note these charts do NOT include estimate of off-model emissions