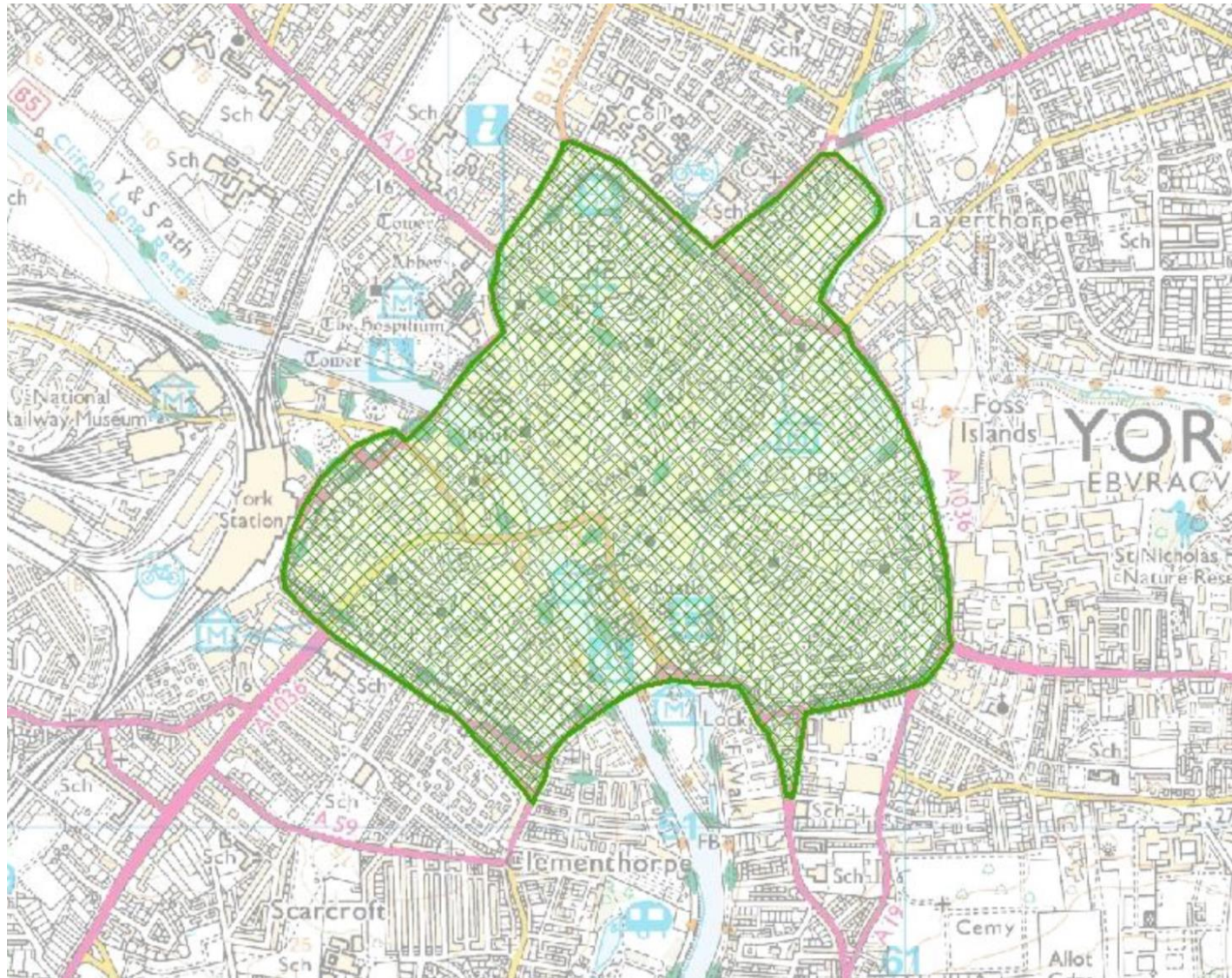
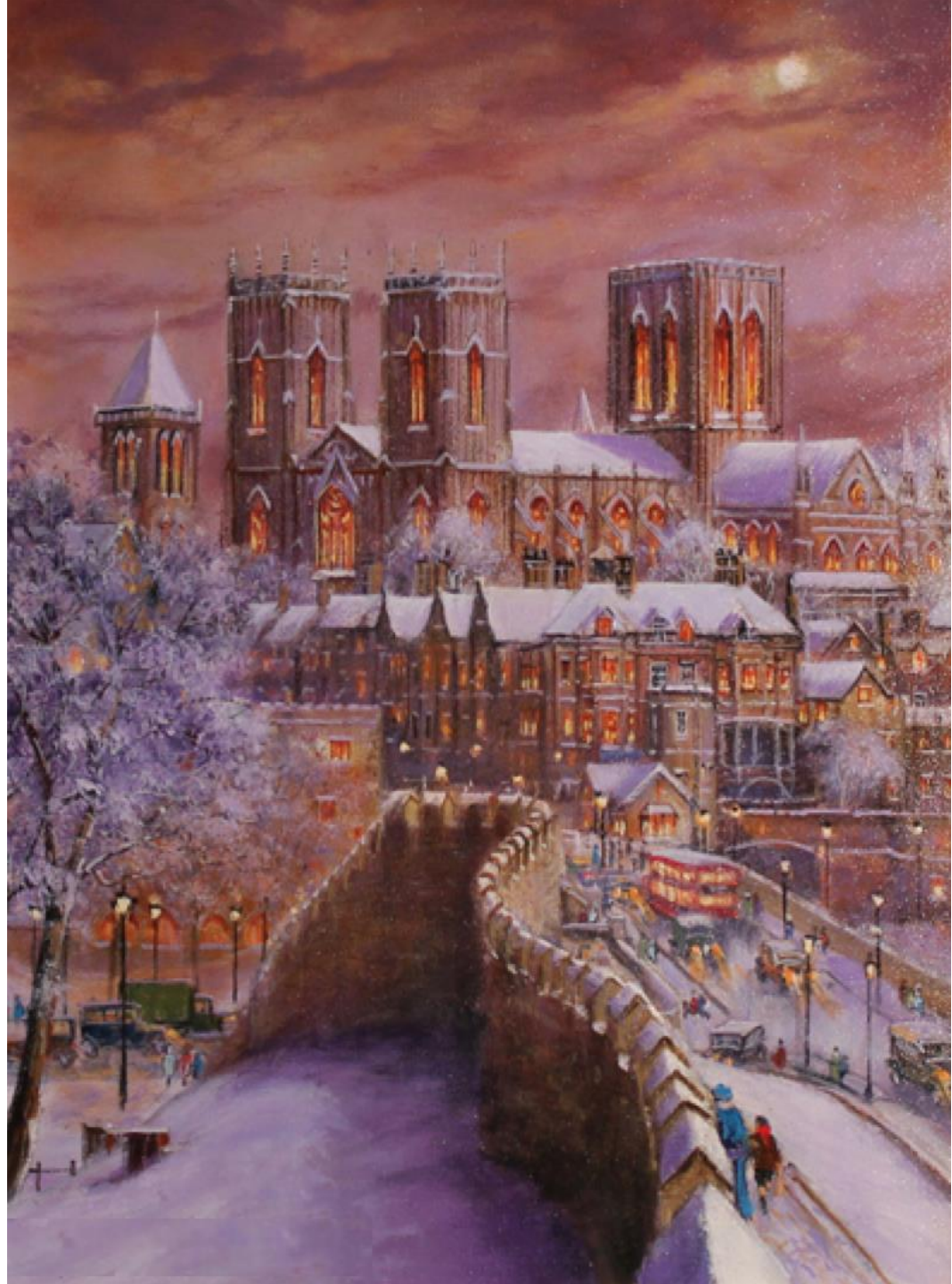


# York - Clean Air Zone







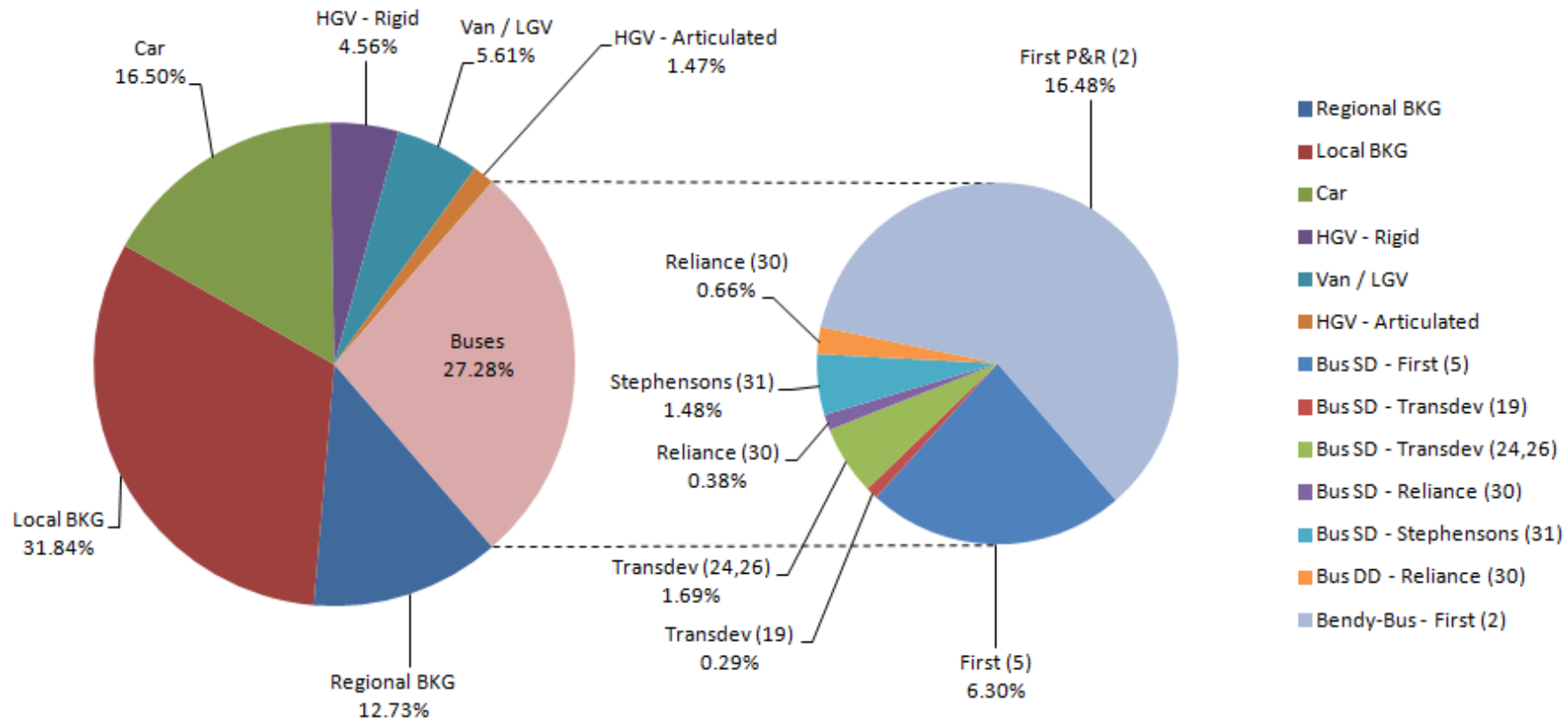
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# Air pollution source apportionment



# Air pollution factors – March 2012

- Type of Fuel – Diesel worst
- Weight of vehicle
- Route through city
- Frequency of journeys

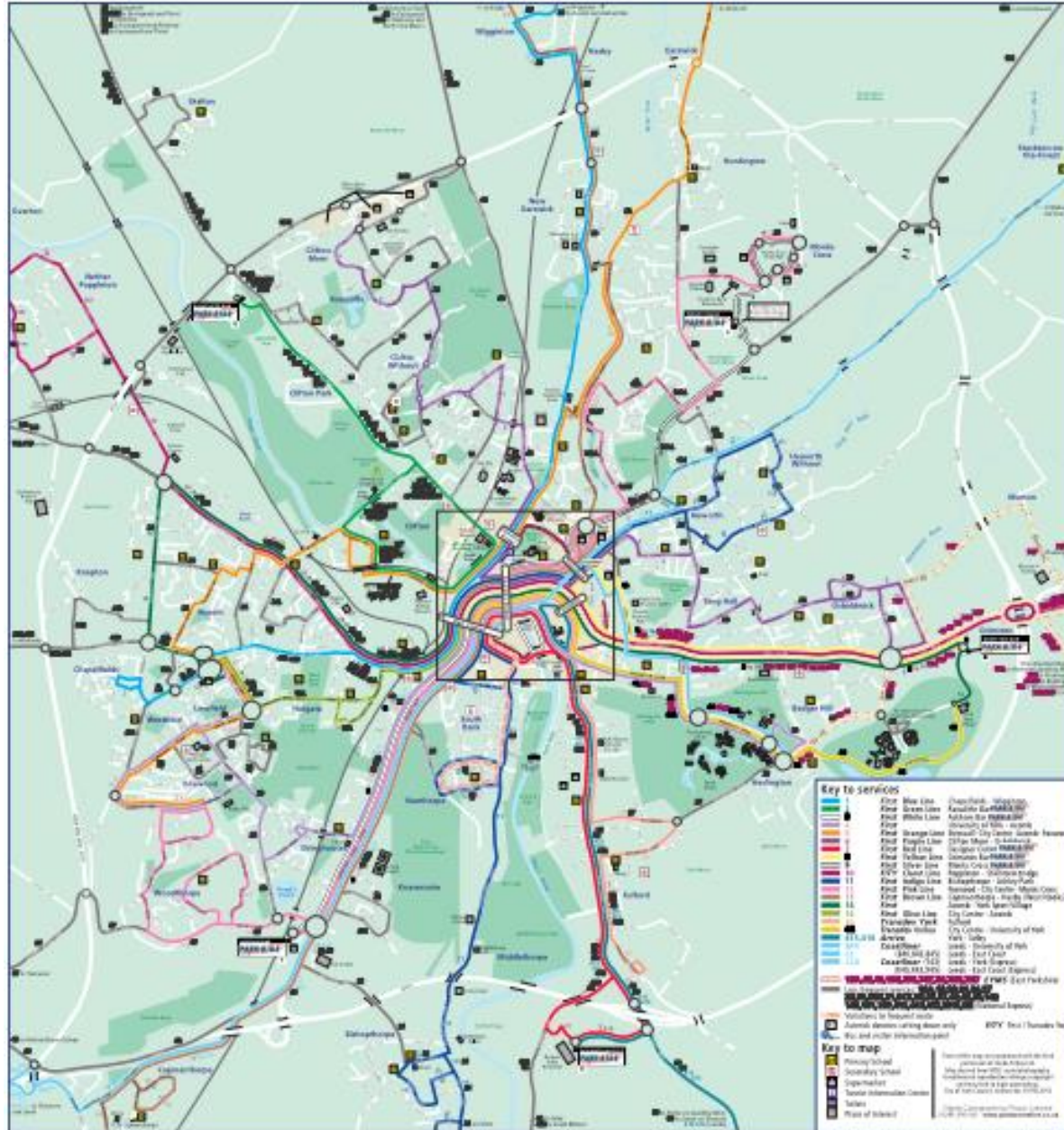
0.3% of vehicles create 20%-30% NO<sub>x</sub>

# Electric bus feasibility November 2012



# York bus routes

80% of bus traffic can run zero emission





**March 2013**



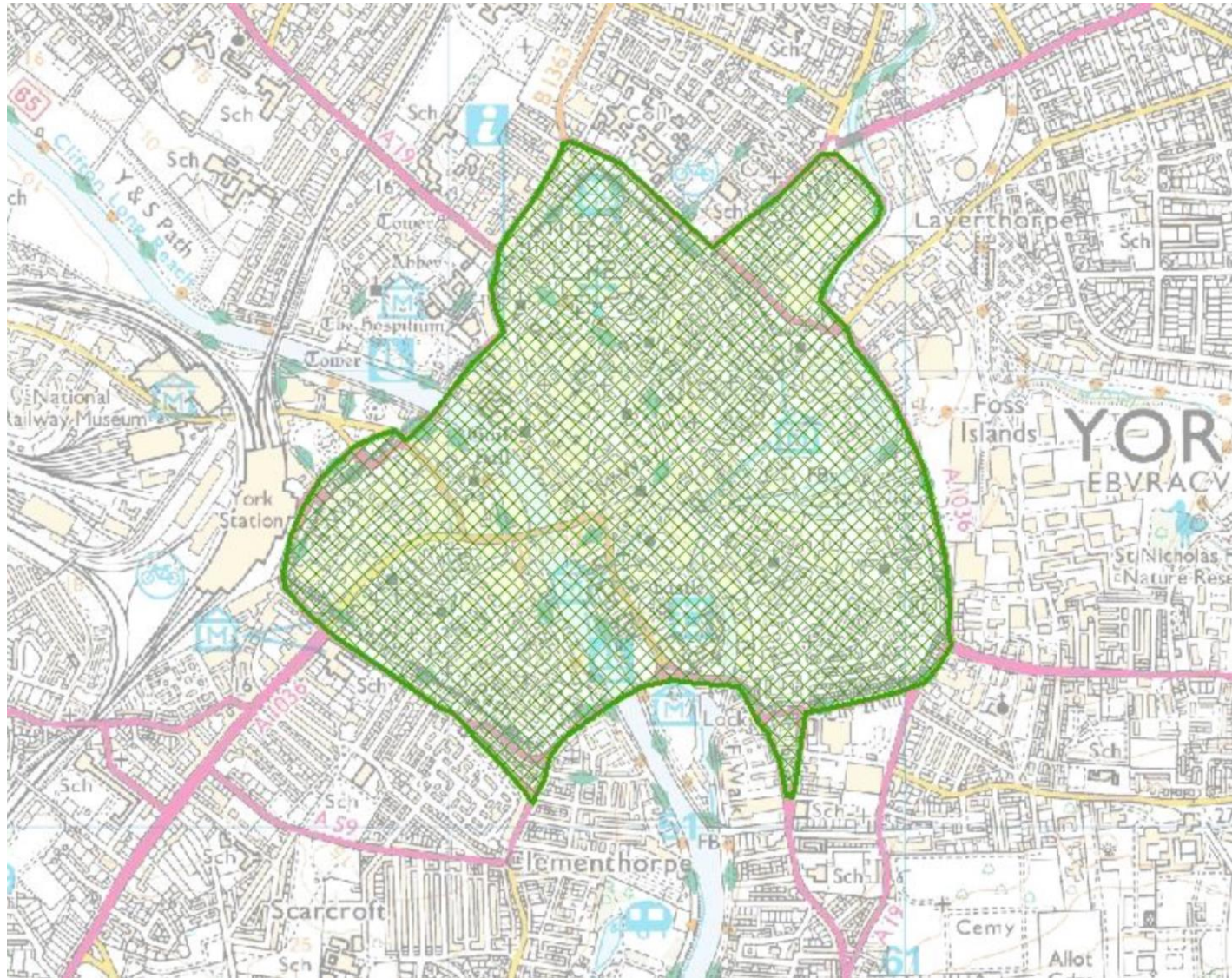


**March 2013**



**May 2013**

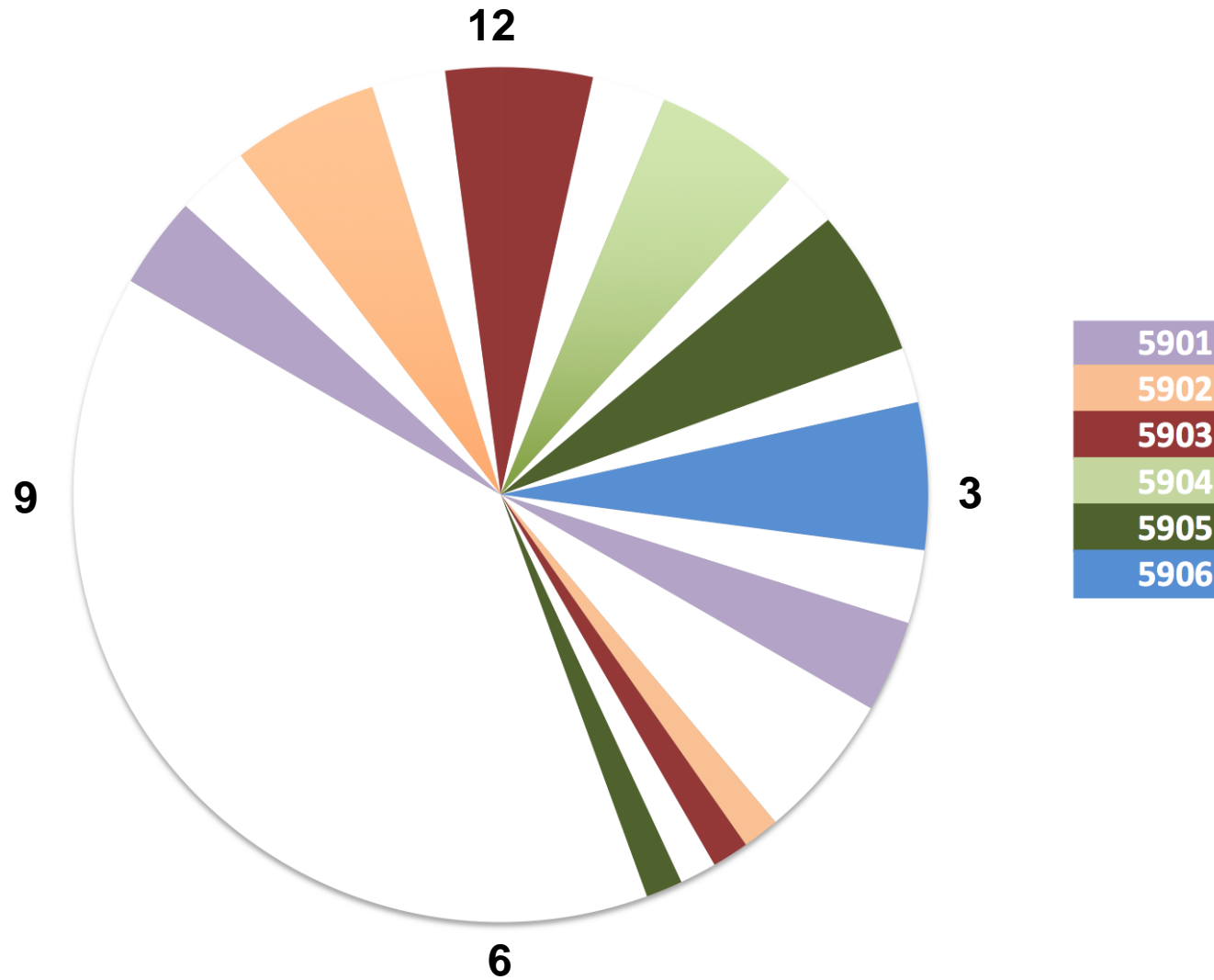
# York - Clean Air Zone proposal July 2013



# June 2014 – first fully electric P&R

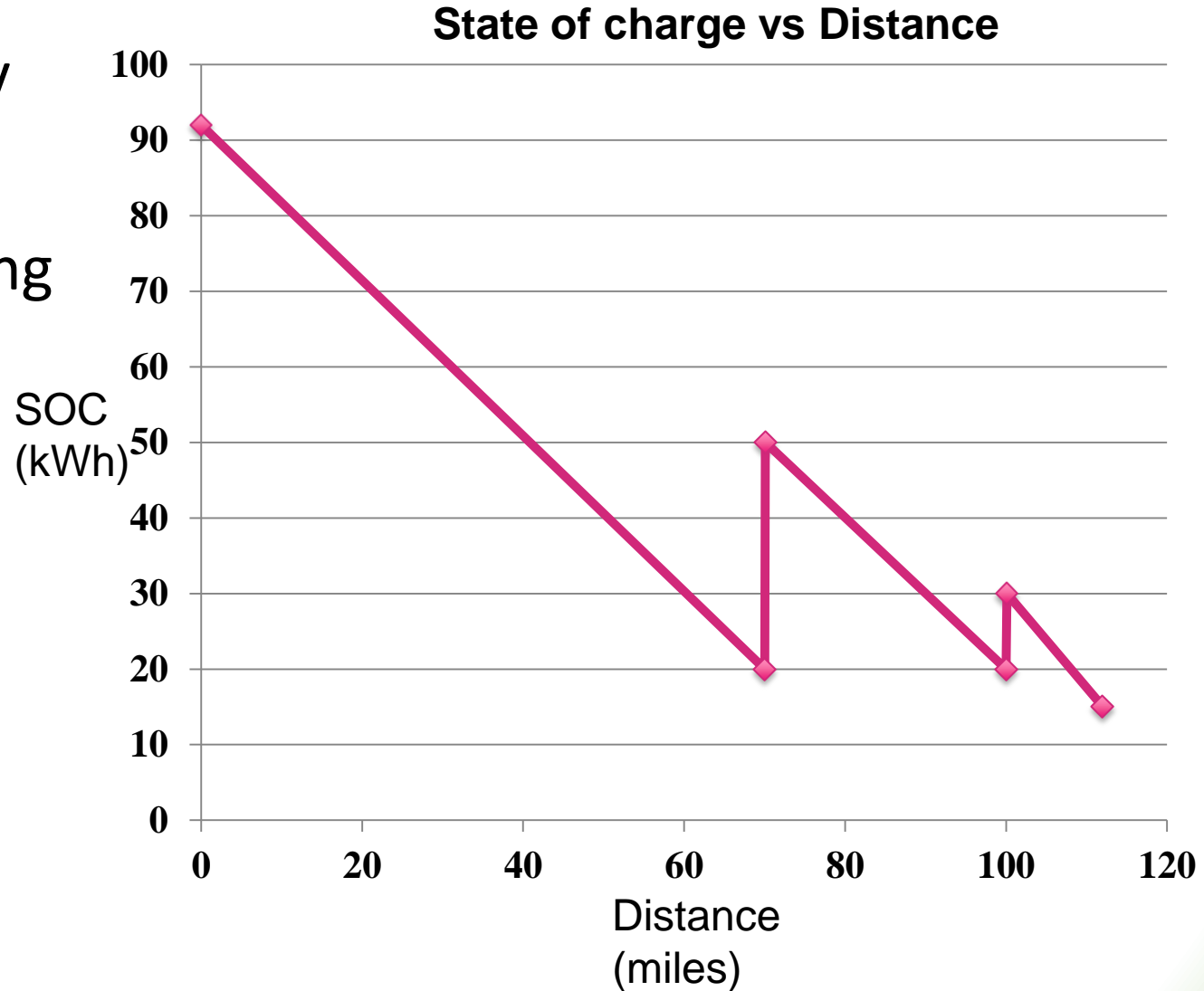


# Charging schedule



# Range – how far will an electric bus go ?

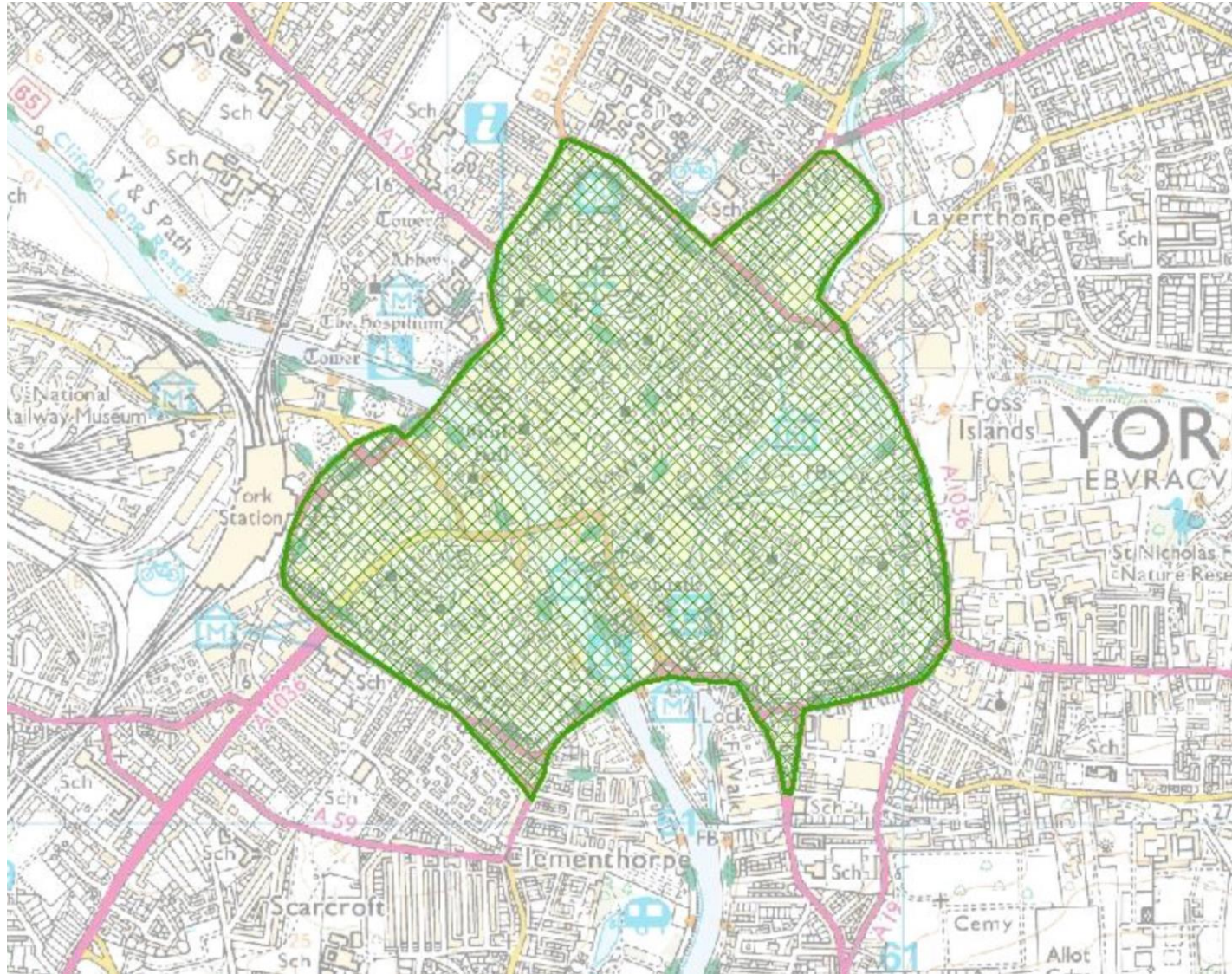
- Driver variability
- Speed of route
- Passenger loading
- Stop/start
- Topography
- Ancillary load
- Temperature
- Weather





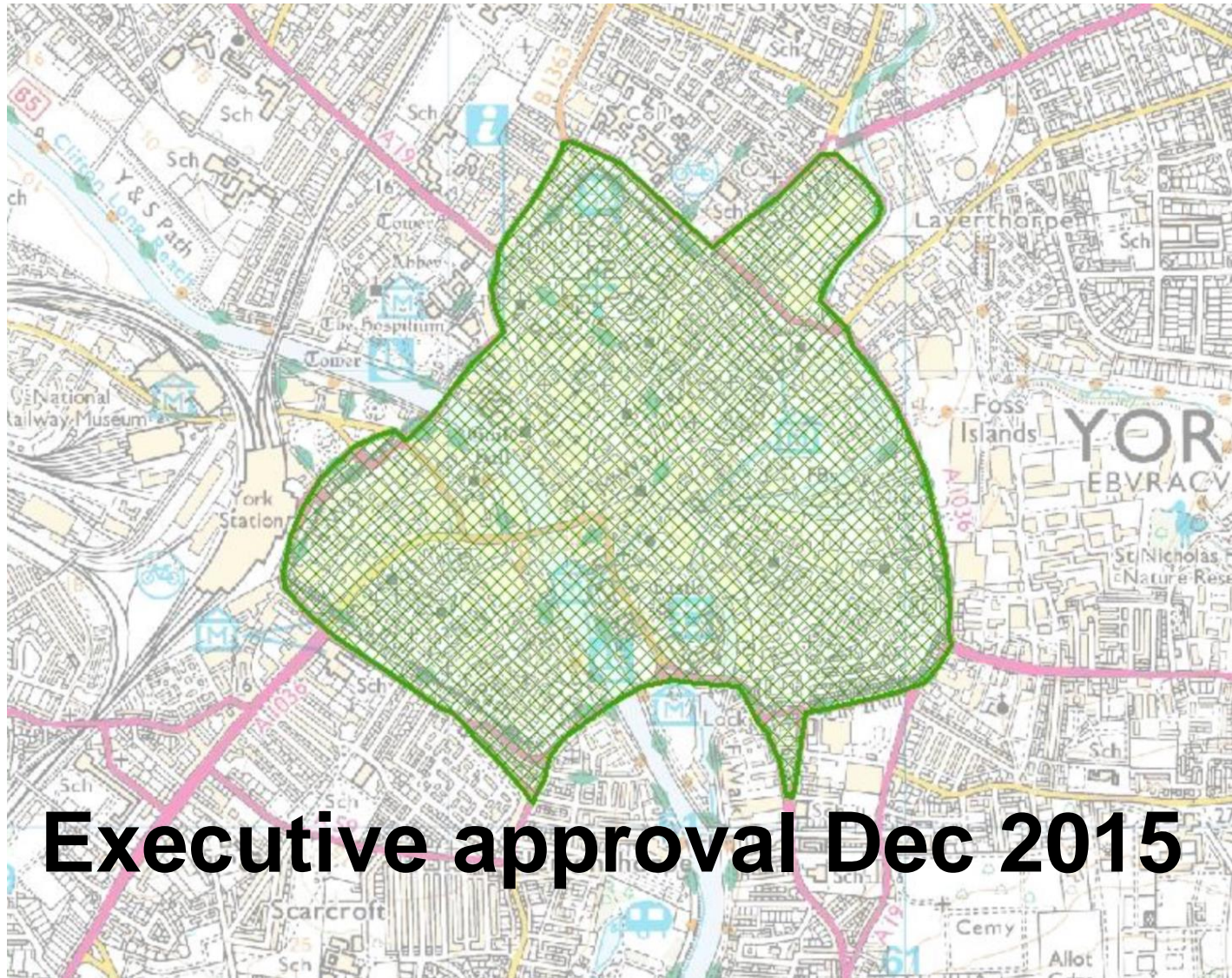


# York - Clean Air Zone consultation Dec 2014





# York - Clean Air Zone consultation Dec 2014



**Executive approval Dec 2015**

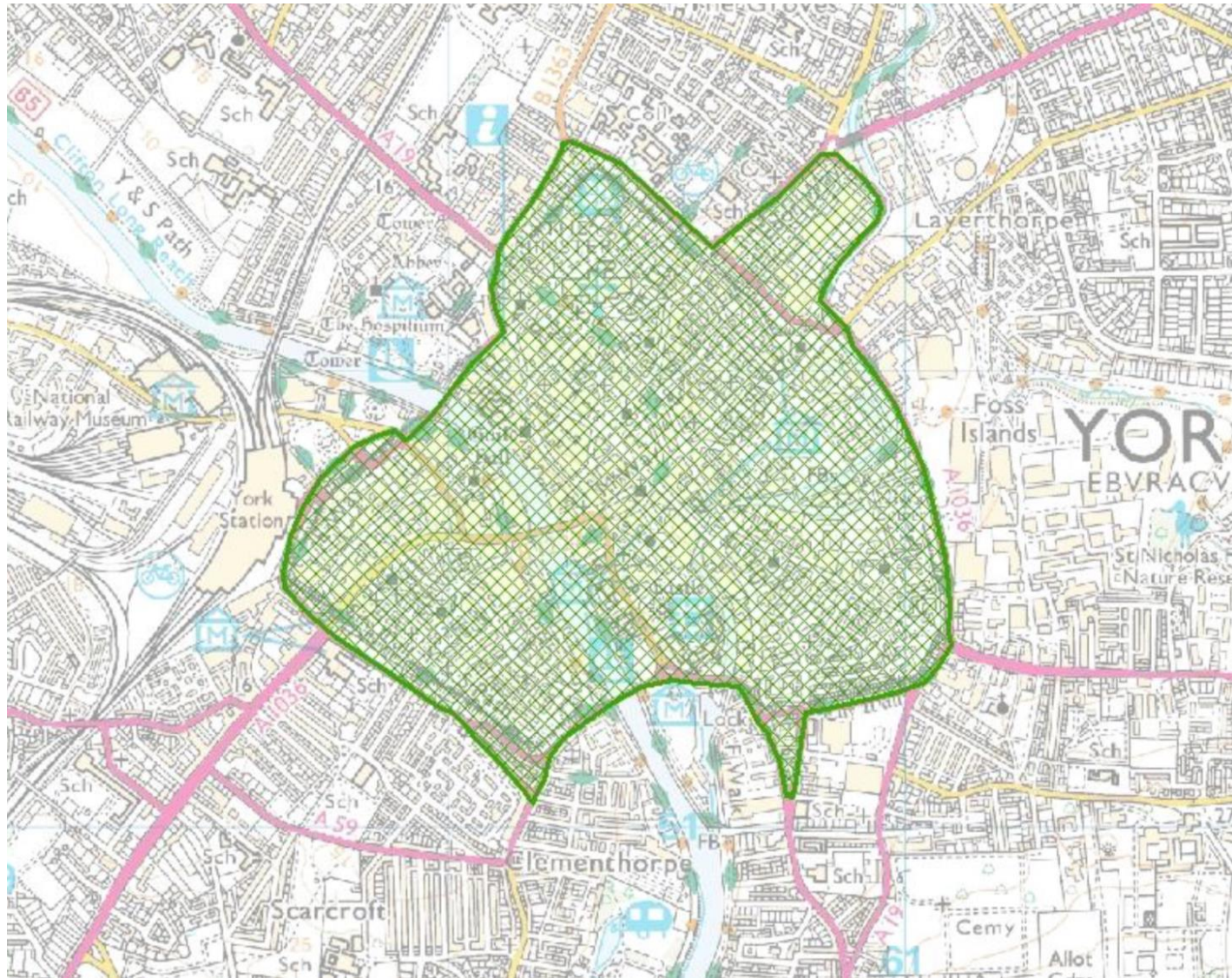
# ...other Clean Air Zones



# Technology advances



# York - Clean Air Zone - future



# 1,300,000 km and counting...



# 1,300,000 km and counting...



Thank you for listening  
Any questions...?

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