



Micro-consolidation of parcel deliveries using public assets



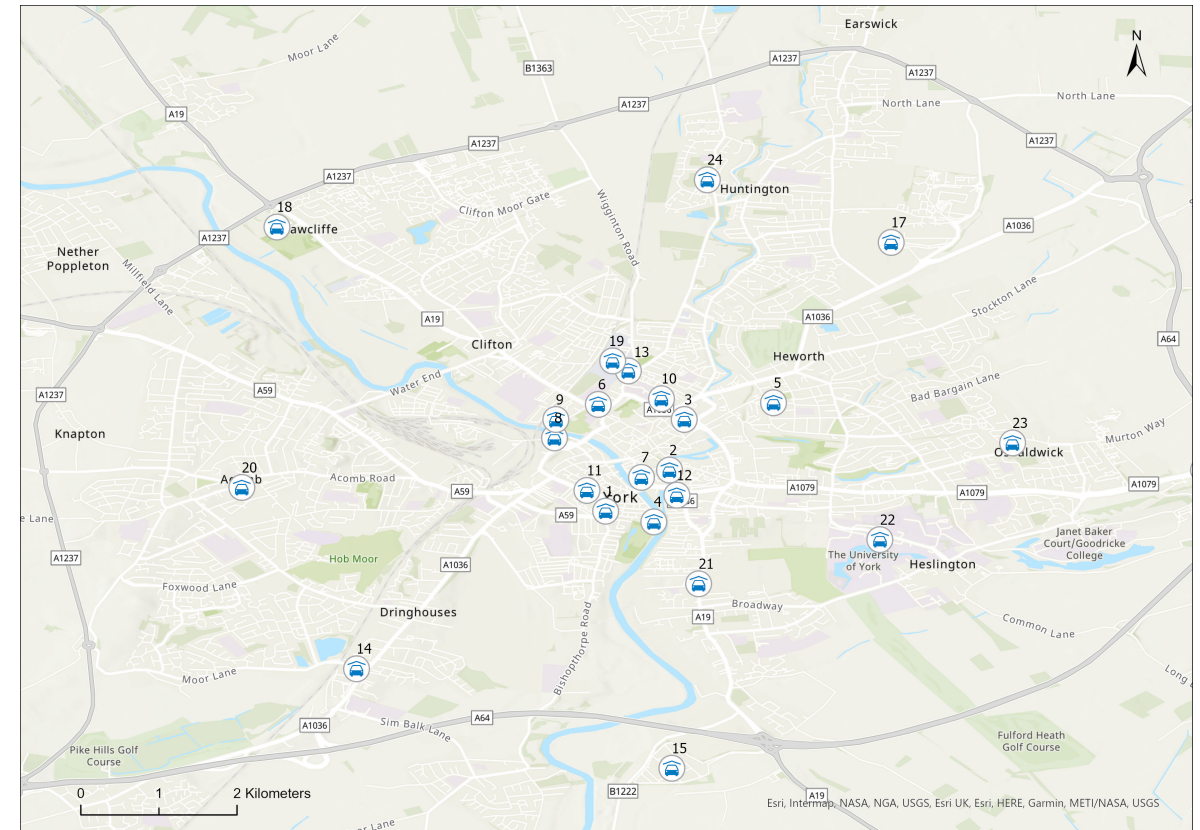


Concept, aim and supporting policy

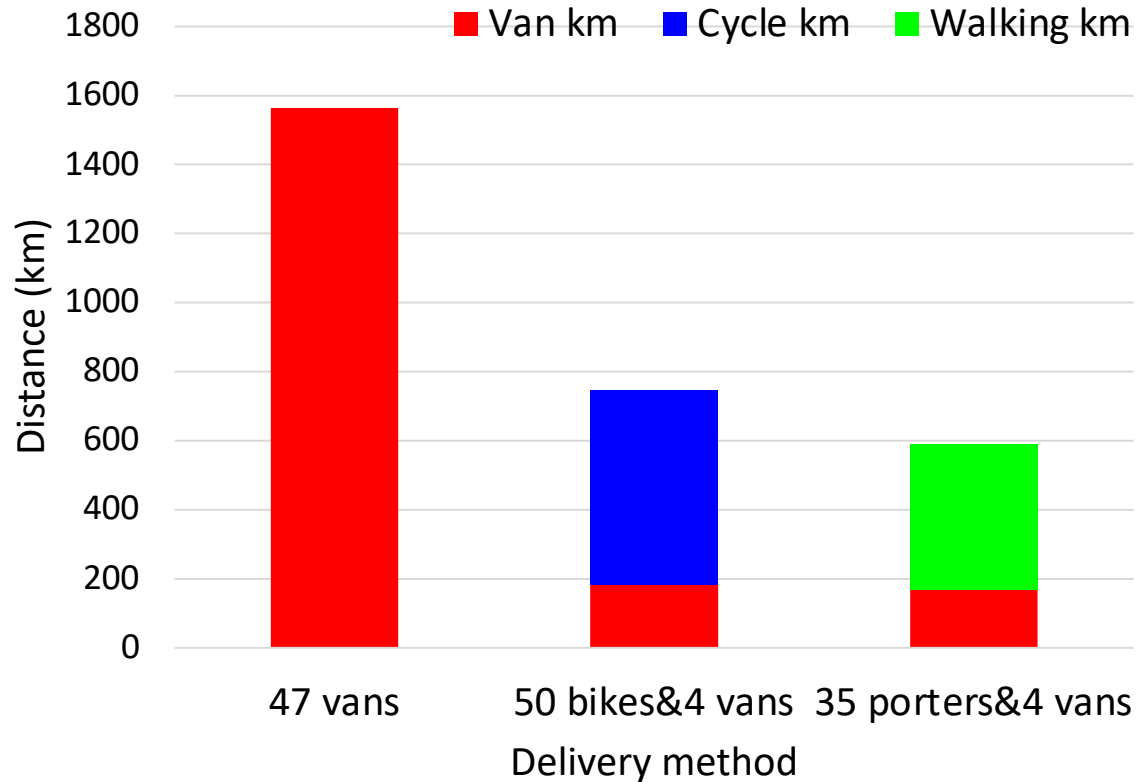
- To use available public authority assets such as community centres, libraries or car parks as micro-consolidation hubs, for transfer of parcels to cycle couriers or porters for last-mile delivery.
- Greener transport, by reducing reliance on diesel-fuelled delivery vans.
- Decarbonisation and air quality targets incentivise local authorities to actively support such initiatives.

Case study example

- Parcel delivery data within York's ring road were obtained from a major parcel carrier for a single day of operation
 - 4000 parcels
 - weighing over 5 tonnes
 - volume over 50m³
 - delivered using 47 vans
 - depot 10km from city centre
- York's 24 public car parks were considered as micro-consolidation locations. Alternative delivery options modelled using 4 vans and either
 - 50 cycle couriers (620L capacity) OR
 - 35 porters with 1500L capacity trolley



Results



Van travel slashed by 88% with corresponding reduction in associated vehicle emissions

Daily emissions savings equate to 400kg CO₂ and 450g NO_x for this one carrier

Greater savings possible if more than one carrier participates in micro-consolidation

Note: bike (620L capacity); porter (1500L trolley)