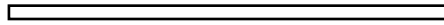# Data Visualisation of Bus Efficiency across the Transport for Greater Manchester (TfGM) Bus Network.

By Bea Chatel

Using the Bee Network open data portal I aim to visualise the efficiency before and "after" a ticketless transport system is implemented.

Creating a more efficient payment and ticketing system would increase efficiency network wide in terms of speed, cost and daily use.

The current ticketed system wastes x amount of paper per year on majority single use tickets. This translates to x amount of money spent a year on paper as well as x weight being disposed of around Greater Manchester, creating more pressure on waste collection services to then recycle x paper.

This x money spent could be saved with a small investment to the bus network. Not only would it save money it would also reduce the unneccsary waste being put into the Greater Manchester eco system.