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Visualisation of London's Transport Networks

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WATERLOO BRIDGE

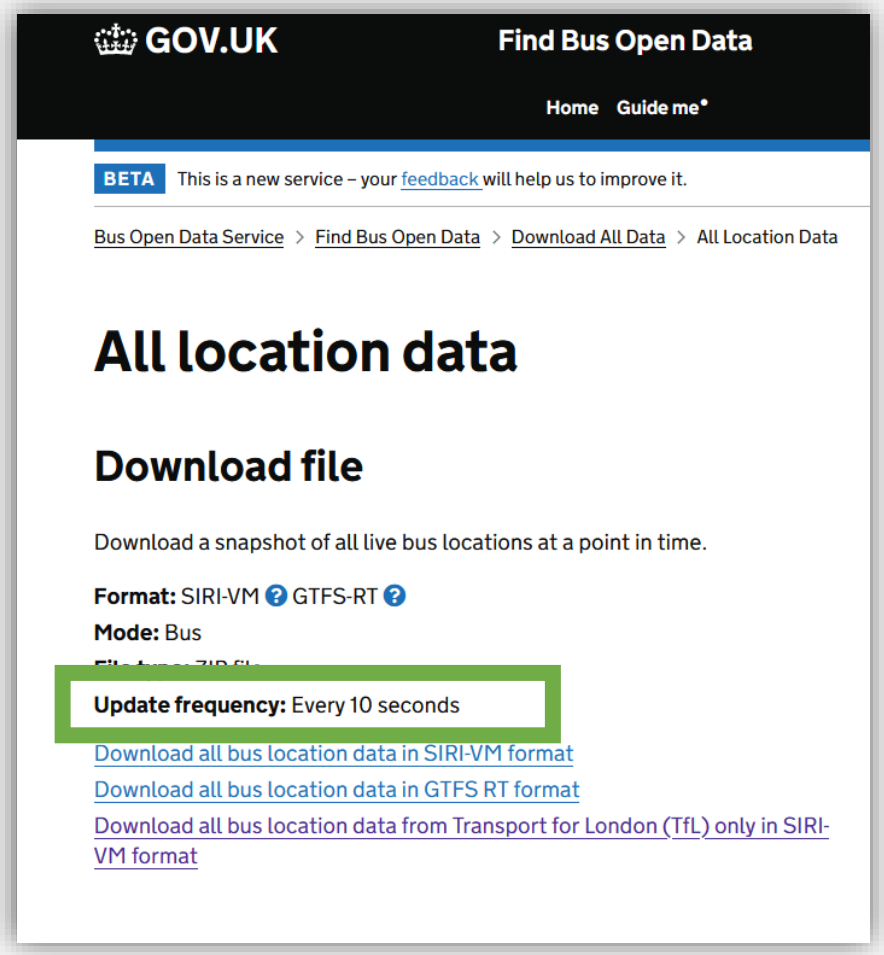
Visualisation data source

The Bus Open Data Service from the UK DfT releases data of every bus location in the UK every 10 seconds.

Collection of one-minute snapshots in Inner London since October and for a bounding box in the North East region since December.

Bus journeys are linked via:

- Vehicle identifiers
- Bus route identifiers
- Direction identifiers
- Within 1 hour of the previous observation



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Open bus raster data

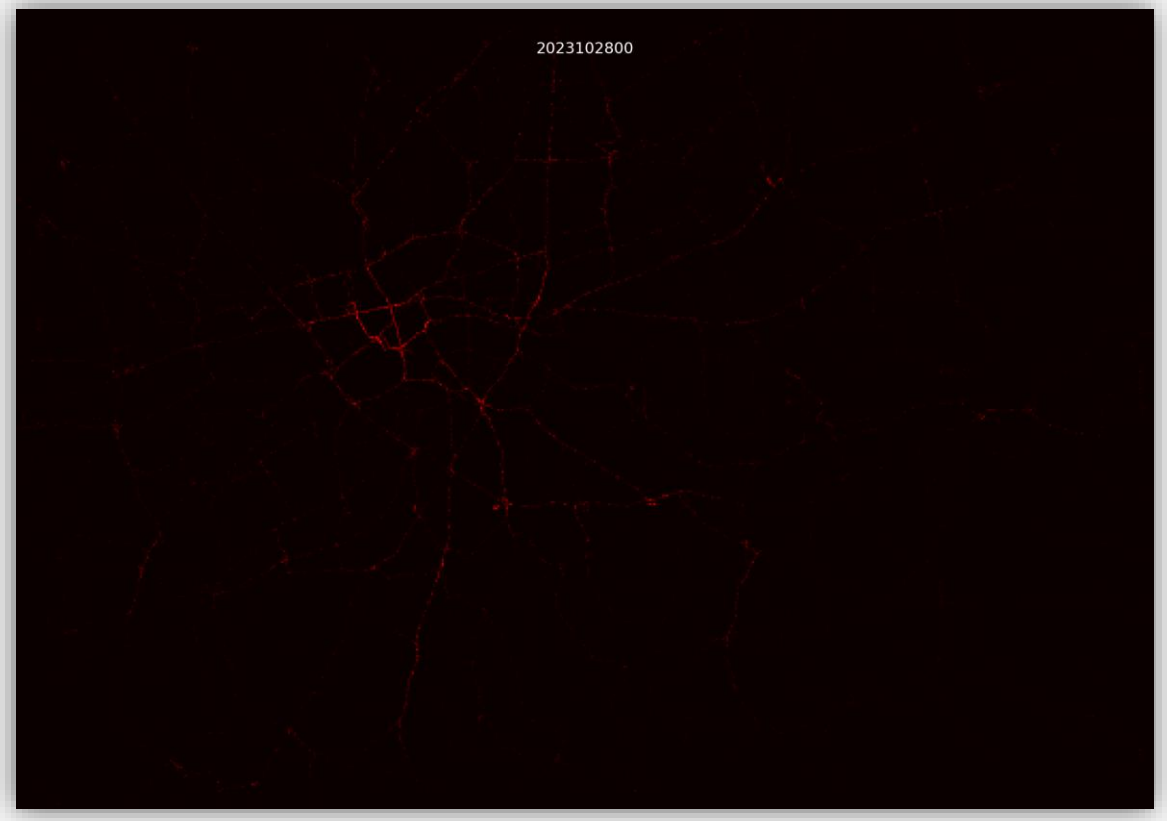
How do bus density/bus speeds vary with air quality, road safety, or health and wellbeing?

Can this data be used as a proxy for traffic density?

Data provided in GeoTIFF format for bus journey counts and average bus speeds within 50m grid squares every hour.

Data can be read/analysed with:

- QGIS
- Rasterio Python package
- Terra package in R.



Data available for download at: https://github.com/cusp-London/bus-open-data-rasters

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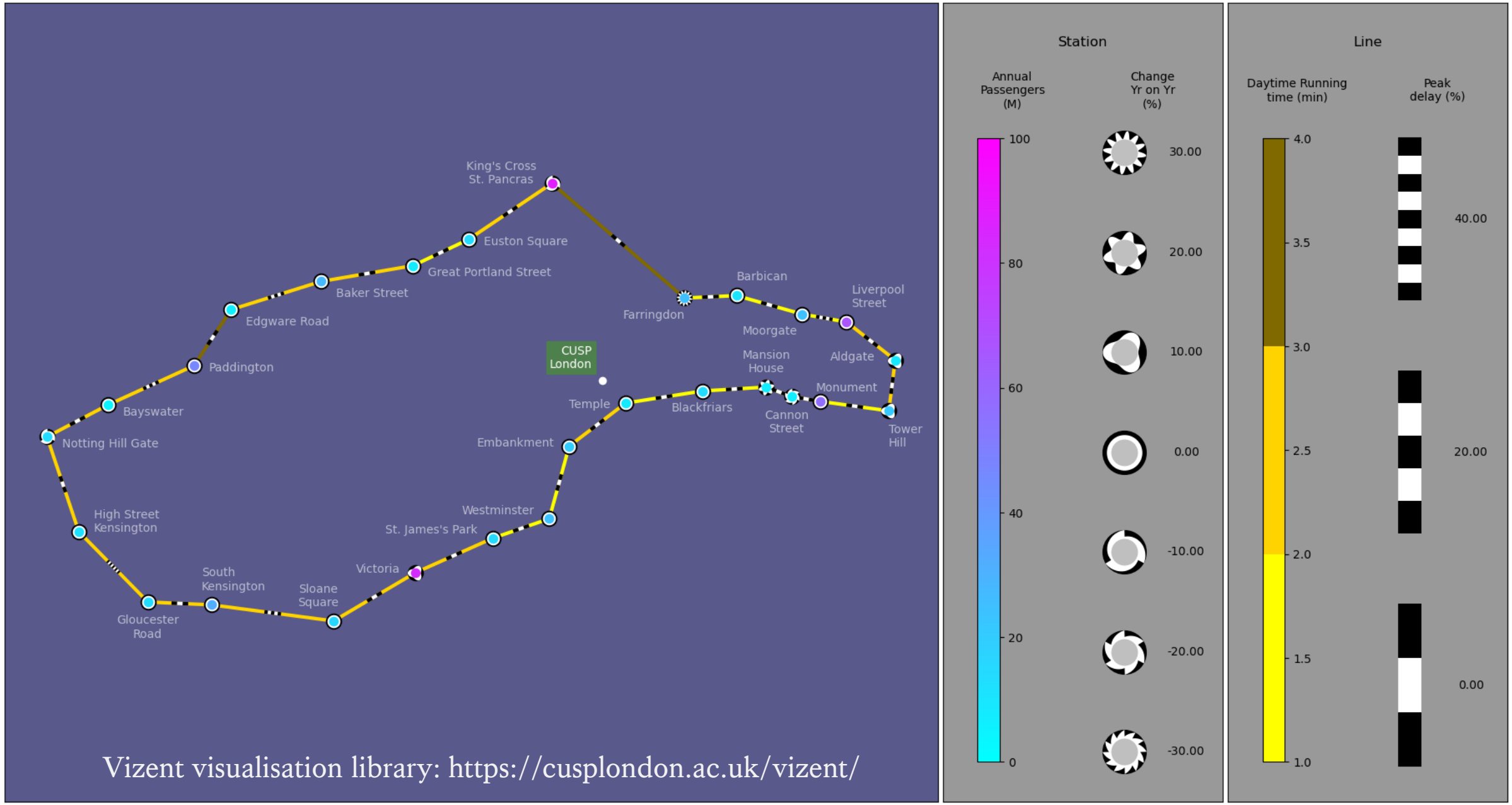
London Tube, Circle Line, Annual Performance.
Total passenger numbers 2018, and % change from 2017, normal line running time (min) and % peak delay, 2011



Useful links

1. Video: https://vimeo.com/901318157

2. Bus Open Data Service: https://www.bus-data.dft.gov.uk/

3. Open bus data rasters: https://github.com/cusp-london/bus-open-data-rasters

4. Example Data Sources: https://github.com/cusp-london/data-dive-2024

5. Vizent visualisation library: https://cusplondon.ac.uk/vizent/

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