

Transport Accessibility Analysis

Measuring the integration of walking with other transport modes

Intelligent Space has developed a computer modelling tool for the analysis of transport accessibility.

What is a Transport Accessibility Model?

This model identifies the accessibility and integration of transport facilities from the perspective of pedestrian users. A program calculates how accessible every transport facility is from each part of the street network (for example, every tube station or bus stop in a town). The calculations can be weighted for the relative importance of each facility, both in terms of their role on the transport network or actual patronage figures for each station. In this way, the model provides an objective measure of the relationships between walking and other modes.

Benefits

- The model quantifies transport improvements at the design stage.
- The results can be used to develop integrated transport strategies.
- The model can incorporate the influence of all modes (for example, car parking, buses, trains and trams).

The value of the analysis has been demonstrated in a wide variety of practical applications, such as:

- Providing Cross River Partnership with a model of the accessibility of the new Cross River Tram at design stage.
- Incorporating transport modes into the design assessment for major masterplanning developments such as the Leeds Eastgate Masterplan and the Greenwich Peninsula Masterplan.
- Advising the Greater London Authority on the dispersal of crowds at Notting Hill Carnival.
- Supporting Transport for London with modelling data for the tracking of progress against policy objectives.



Tube accessibility analysis of south London, showing areas with poor transport access