ATKINS

Level of Service Analysis

Measuring capacity of footways and crowding of pedestrians

Both for existing street networks and in masterplans, it is important that the streets are built with pavements that are of a sufficient size to manage the flows.

- Important for events – ensure adequate room for queuing and evacuation.
- Important for streets – are pavements wide enough to support flows - or will people be forced to walk on the road or take alternative routes due to the crowding experienced.

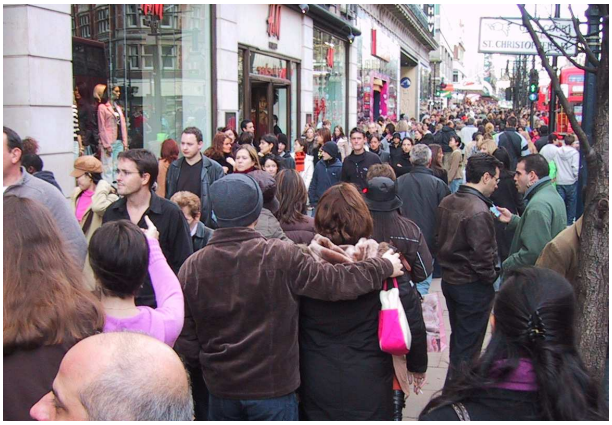
Level of Service (LOS) analysis is an internationally recognised standard for benchmarking the capacity of pedestrian spaces and the level of comfort (or 'service') that particular designs will provide for pedestrians.

How do we do it?

Intelligent Space Partnership has developed automated tools for calculating Level Of Service.

Both the total street width and the useable width are evaluated. The useable width accounts for the presence of street furniture.

Comparing streets against examples from other locations is used to inform our clients about the impact of changes to the street furniture or landscaping on the pedestrian environment.



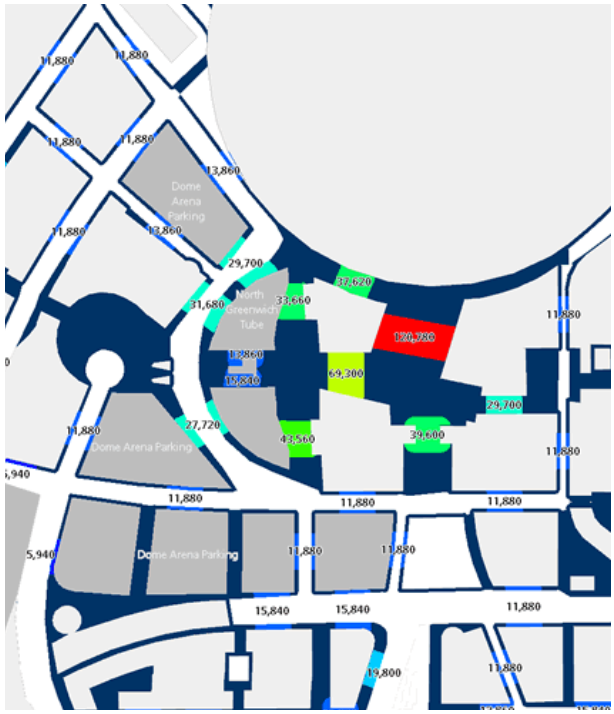
Pedestrians in Oxford Street

What is the value?

It makes the most out of the streets and provides an environment that is suitable for the expected use.

Intelligent Space Partnership's automated tools to model Level of Service have been used to help clients in a wide range of projects:

- Meridian Delta (developers of the Greenwich Peninsula) used ISP Pedestrian Level Of Service Analysis to evaluate pedestrian capacity of routes leading to the Millenium Dome.
- Transport for London used ISP capacity analysis for central London for their research on tracking progress against pedestrian movement travel objectives for London.



Capacity analysis of the Greenwich peninsula

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