

Task 1.9 Network Inventory Data

Inputs

Various existing data sources can usually be drawn on for network inventory data which may obviate the need for specific network data collection. Examples are: GIS databases providing road centrelines, aerial or satellite photographs, road agency data, street maps and existing inventory surveys.

Processing

Basic task is to develop a robust link-type classification, identifying:

- road environment (service road, local road, arterial, rural, expressway etc)
- posted speed-limit

This classification will form the basis for the initial allocation of free speed, capacity and speed/flow curve. Free-speeds by link-type should be based on free-speed surveys.

Network data that varies by time period should be collated (eg clearways, bus lanes, tidal-flow facilities).

A library of the layout details for all key junctions should be developed. This should include a sketch of the layout, including lanes, lane markings, basic lane dimensions (widths, short lanes etc), phase diagrams etc.

Outputs

Link-type classification of all links

Hierarchy classification of all links

Generic allocations of free-speeds and capacities by link type

Junction layout library

(Edited from a task description by Andrew Murray of Beca)