

## 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)*