

## Task 5.4 Future Year Road Networks

### *Inputs*

- ❑ Regional Land Transport Strategy
- ❑ Committed projects

### *Processing*

The general approach is to include expected future upgrades in an agreed sequence as well as minor upgrades required to obtain feasible, stable assignments:

- ❑ identify assumed future road network upgrades in current model (and verify against documentation)
- ❑ obtain an agreed staging of future road projects; as well as general capacity upgrades, this should also cover projects such as possible HOV facilities, bus priority measures, toll/charging locations etc
- ❑ specify coding protocols
- ❑ develop coding for network upgrades – develop a network modification system so that individual projects can be ‘mixed & matched’ as required
- ❑ incrementally test each forecast year on the preceding year’s network (i.e. assign 2006 demand to 2001 network) – identify network deficiencies (large delays, low speeds, large increases in cells of skimmed time matrices)
- ❑ identify if any known projects are likely to solve identified the deficiencies
- ❑ if no known projects exist, develop feasible solutions (general rule of thumb is that such ‘unknown’ upgrades should be restricted to intersection upgrades with link upgrades only being used if previously identified as future projects)
- ❑ test upgrades and finalise networks for forecast years

### *Outputs*

- ❑ Library of future network improvements
- ❑ Agreed sequencing of major projects
- ❑ Documentation and coding of minor network improvements for each forecast year to obtain stable, feasible models
- ❑ Documentation