

Implementation of the Models

Modules

The set of sub-models and data is:

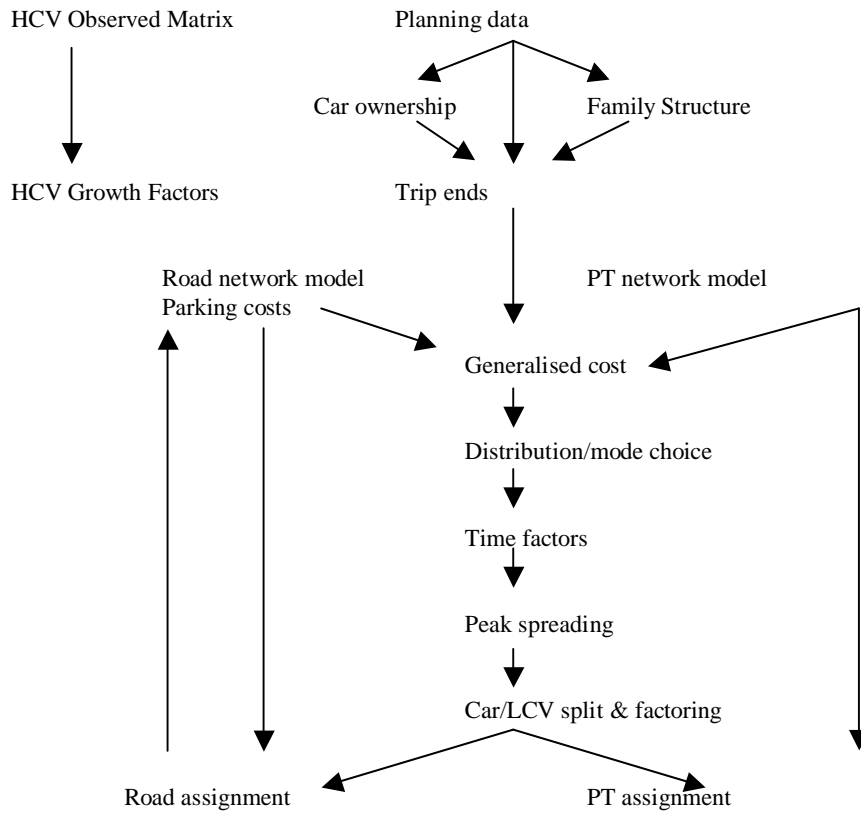
- Data:
 - Observed matrices
 - Planning data
 - Road network model
 - PT network model
- Inputs:
 - Generalised cost
 - Parking costs
- Sub-Models:
 - Car ownership
 - Trip ends
 - Distribution/mode choice
 - CV model
 - Time factors
 - Peak spreading
 - Road assignment
 - PT assignment

Mechanics of Implementation

The connections are illustrated in the figure. Possible loose ends to be tidied up are:

- links between time series and cross-sectional car ownership models, setting the adjustment,
- trip end balancing, airport trips,
- externals (trip ends and DMS),
- parking cost,
- walk & cycle trips,
- vehicle occupancy,
- generalised cost time period averaging,
- DMS doubly & singly constrained applications,
- HCV growth & generally the HCV/LCV processes,
- trip under-reporting factors to be applied to the estimated matrices (?)
- peak-spreading.

■ **Figure: Key Links**



A major area to be set up is the feedback iteration process. Options are (i) damping matrices and/or (ii) damping the costs and (iii) the convergence statistics need to be specified and output. Perhaps also important is running the model with time periods and highway assignment convergence.