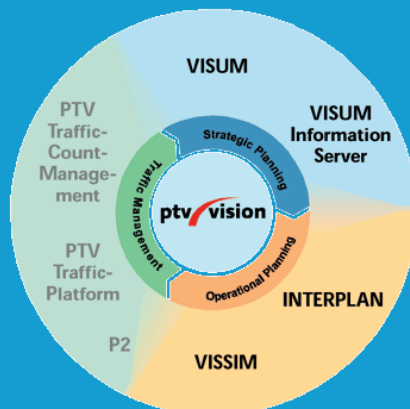


# WHAT

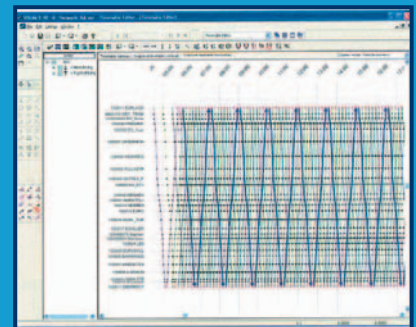
## PTV Vision

This software has been in continual development by PTV in Germany since 1979. The software consists of a suite of packages that include a microscopic simulation package - VISSIM and a transport planning package - VISUM. The philosophy behind the PTV Vision software suite is integration and transparency between the various levels of transport analysis strategic planning - traffic management - operational planning.

The transparency of PTV Vision enables model errors to be easily identified and rectified while model results can be easily interpreted by clients and assumption s tested quickly. High quality presentation means there is more engagement of the decision makers and stakeholders in understanding the issues and improves participation.

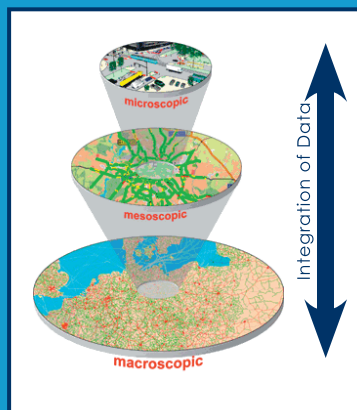
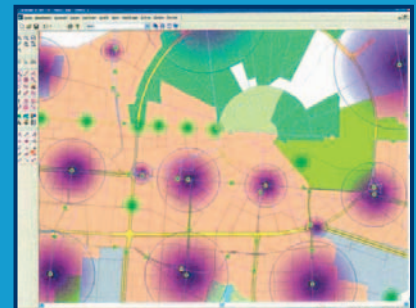


**VISUM Bus Timetable Editor**



Within PTV Vision integration between macro-meso-micro analyses tends to be seamless with common datasets being used at each level of detail of modelling. This enables model building to be undertaken quicker and also assists in error detection as mismatches between levels of detail become apparent.

**VISUM Bus Stop Catchment Areas**



**VISSIM 3D models**





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### **Brisbane Office**

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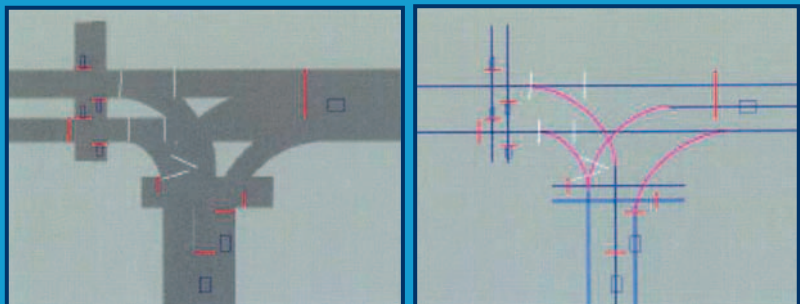
### **MWT Website**

[www.mwttraffic.com.au](http://www.mwttraffic.com.au)

Both VISSIM and VISUM offer scripting possibilities using various programming languages through the COM interface allowing for clients requests to be easily incorporated into modelling process or specific reporting requirements to be met.

VISSIM is a detailed microscopic simulation package that offers full functionality to the user enabling them to model detailed behaviour of various road vehicles, trams, trains, cyclists and pedestrians. Vehicle actuated signals, priority systems, parking searches and variable message signs. Detailed statistics can be collected for individual vehicles across entire networks lending itself to collection of economic, measures of effectiveness, emissions... The detailed structure of VISSIM means that road elements can be coded exactly as they exist on the network without the need to interpret the situation to

#### **Detailed swept path coding at intersections (not constrained by node-link structure)**



VISUM is the larger package that covers all aspects of strategic modelling and mesoscopic modelling and its flexible approach means it can be used for transportation planning, travel demand modelling and network data management. It has been designed for multimodal analysis and integrates all relevant modes of transportation (i.e., car, car passenger, truck, bus, train, pedestrians and bicyclists) into one consistent network model. VISUM provides a variety of assignment procedures and 4-stage modelling components which include trip-end based as well as activity based approaches.

VISUM is used to build conventional 4 stage models for regional and state-wide planning while also serving as a powerful analysis and data management tool for traffic engineers and transportation planners. A unique strength is detailed public transportation service planning, with a data model for routes and schedules that goes far beyond traditional demand models.

VISUM can read standard GIS outputs so that high quality presentations and data filtering can be utilised in conjunction with database programs such as MS ACCESS.

### **PTV Vision Training**

MWT has a certified trainer for VISUM, VISSIM, V3DM and VISVAP and offer the following standard courses:

- VISSIM Introduction – 2 days
- VISSIM Advanced (includes VISVAP) – 2 days
- VISUM Introduction – 2 days
- Introduction to Travel Demand Modelling – 1 day
- VISSIM – professional presentation – 0.5 day
- VISVAP – 0.5 day

Specifically tailored training courses can be provided as necessary with clients specific examples considered.