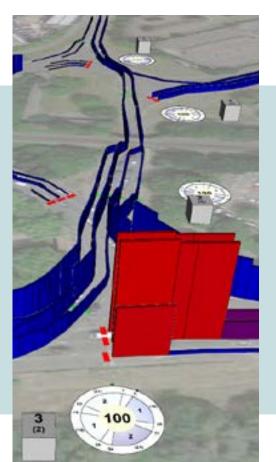


About TRANSYT

TRANSYT is a macroscopic and simulation software package for designing, evaluating and modelling everything from single isolated road junctions to large mixed signal-controlled and priority control traffic networks.



Who uses TRANSYT?

Used across the globe by traffic engineers, traffic modellers, junction designers, students and tutors, working for local authorities; municipal, state and regional authorities; consultancies of all sizes from multi-nationals to the smallest businesses; universities; other educational establishments.



Why use TRANSYT?

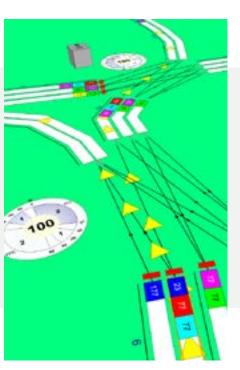
Signal timings at road junctions have an important effect on levels of traffic congestion, both at the junction itself and at surrounding junctions which may be signalised or priority-controlled. Ensuring traffic signals are timed effectively is one of the most cost-effective methods for reducing congestion.

TRANSYT is a comprehensive global product used for optimising traffic signals at single junctions and large traffic networks of mixed control. It is designed specifically to give quick solutions with minimal user input, and also more considered solutions when needed.

TRANSYT modelling can feed into many processes – signal plans for fixed time signals; cableless linking facilities; SCOOT base timings; vehicle actuation maximum timings and for predicting the performance of the aforesaid.









TRANSYT makes construction of the network faster and easier

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About TRANSYT

What can TRANSYT Model?

TRANSYT can model mixed networks of signalised and unsignalised junctions. Furthermore, when used in conjunction with a Junctions licence, it has the capability to predict the performance of priority junctions using standard ARCADY PICADY geometric data.

How TRANSYT works:

A detailed traffic model calculates a Performance Index (an economic cost, based on stops and delays) using traffic flows, turning proportions, and network structure information TRANSYT runs an optimisation process that adjusts the signal timings with the objective of minimising the Performance Index. Evaluations runs using proposed or existing timings can also be carried out.

Adaptive Control Integration:

TRANSYT can import SCATS traffic-flow data for the purpose of optimising offsets and signal timings. Likewise, SCOOT traffic flow messages can be imported to utilise live and up-to-date traffic flows.

International Use:

TRANSYT is suitable for drive-on-the-left and drive-on-the-right conditions. TRANSYT also has a number of features to extend its appropriateness in different countries, such as TRANSYT's alternative Chilean traffic model, SCATS® split times, turn-on-red flow and alternative user-interface terminology.

Key Modelling Features



Evaluate Performance

 Evaluate performance of existing layouts and signal timings and investigate future scenarios



Multiple Modelling Scenarios

- Model multiple scenarios of peak traffic flows and associated signal strategies within one file
- Simulation modelling of intermittent stages, i.e. non-cyclical demand—dependant timings
- Models Repeated greens and multi-cycled streams
- Modelling of short bays
- Models Repeated greens and multi-cycled streams



Model Roundabouts

 Model signalised, partially signalised and priority roundabouts within one file



Flow Allocation

- Extensive control of flow allocation process
- · User Equilibrium Assignment of flows



Optimised Traffic Flow

- Stage-based and phase-based optimisation
- Choice of optimisers to establish multidirectional 'green waves'
- Optimise to maximise performance of corridors
- · Cycle time optimisation

Key User Interface Features:

- Interactive diagram / synced data entry screens
- Fast data-entry, including various auto-calculated data items derived from scaled diagram
- Graphical lane–flow overlays for ensuring optimum junction layout and lane designation
- Combined flow/queue animation of vehicular traffic and signalised pedestrian crossings.
- Library files ensure a quick junction setup and illustrate modelling methods/opportunities
- · Auto-calculation of conflicts and intergreens
- · Auto-calculation of RR67 saturation flows
- · Import flow data dynamically from Excel
- Customisable performance analysis graphs
- Automated audit-trail facility
- One-click production of publication-ready reports
- Report export to PDF or Word format



World class traffic & transportation solutions

Today, TRL supports more than 1,000 clients across 145 countries, driving positive societal and economic benefits.

Our core areas of expertise include: road safety, vehicle safety, crash investigation, human factors & behavioral research, asset management & technologies; intelligent transport systems & traffic operations; sustainability & healthy mobility; major incident investigations.

Our innovative and evidence lead software solutions support the design, management and implementation of safe and reliable transport networks, with products being used worldwide by hundreds of Local Authorities, consultants and engineers.

UTC, POWERED BY SCOOT® 7

to coordinate signalled junctions in a network

Junctions 10

PICADY: for assessment of roundabouts

ARCADY: for junction design

OSCADY: for evaluation and optimisation of

isolated junctions

MOVA

to regulate traffic flow at isolated signalled junctions



iROADS

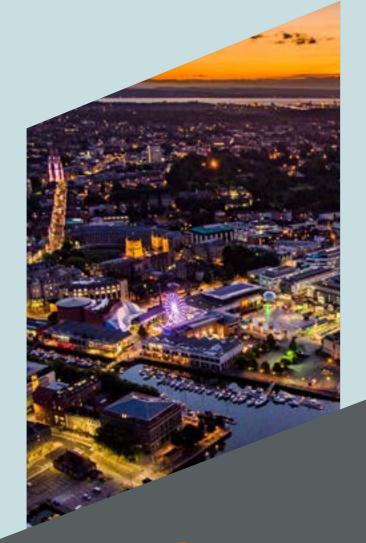
for digital road asset management of your strategic network

SCOOT

for optimising traffic signal timings

iMAAP

for detailed crash data recording and analysis



- **01344 379 777**
- 🔀 software@trl.co.uk
- Crowthorne House, Nine Mile Ride, Wokingham, Berkshire, RG40 3GA
- trlsoftware.com