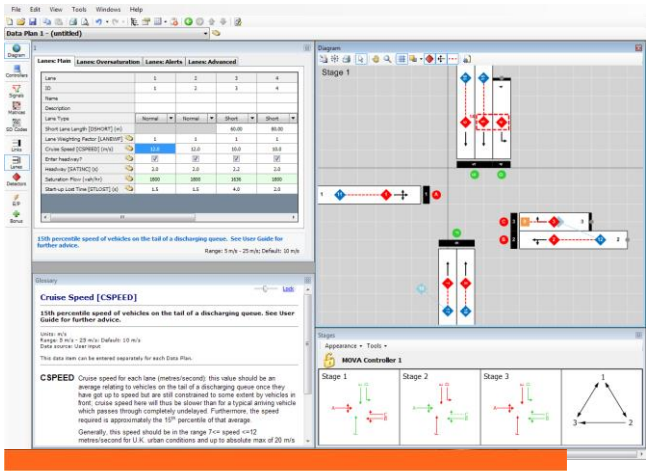
TRL Software

MOVA

Effective & Reliable Traffic Control

MOVA is the UK's successful and widely-used signal control strategy originally developed by TRL. It is used at a substantial proportion of the country's isolated junctions and signalised roundabouts, having been established in the late 1990's.

TRL continue to develop the product to meet the needs of today's road-users, engineers and traffic managers.



Effective Traffic Management

MOVA was originally developed to work effectively at a wide range of sites and conditions. MOVA has configuration data which needs to be specified by the engineer. Much of the data is straightforward and easy to understand, but the quality of operation of MOVA does depend on the correct setting of certain key information, requiring expert knowledge and experience.

As the design authority for the product, TRL have a wealth of knowledge and experience on how MOVA works and the requirements to make it work to its optimum capability.

To ensure the correct setup and commissioning of MOVA sites, TRL offer a range of consultancy services and IHE approved training courses to help design, commission and validate MOVA controlled junctions.

TRL Software, Crowthorne House, Nine Mile Ride, Wokingham, Berkshire, RG40 3GA United Kingdom
t +44 [0] 1344 779 777 **e** software@trl.co.uk **w** www.trlsoftware.com

MOVA Consultancy Services

The range of consultancy and services provided by TRL include:

- Complete design, commission and validation of MOVA sites including new and refurbished junctions and resolving issues with under-performing junctions
- Turn-key modelling services with VISSIM or S-Paramics with PCMOVA including development of the microsimulation model and any requirements to assess the impact of new developments and the mitigation MOVA would provide.
- Guidance for traffic managers in usage of information provided by MOVA to keep informed of network performance
- Local policy delivery to assist with provision of public transport prioritisation or improve pedestrian amenities

MOVA Training

TRL offer high-quality IHE approved training courses tailored to meet the requirements of individuals with various levels of experience, from beginner to the more advanced MOVA engineer.

The 1-Day MOVA Upgrade Course covers the basics on how to design and commission a MOVA junction and includes various topics such as key elements of MOVA operation.

The 2-Day MOVA Engineers Course is a mixture of practical and theory and covers, in detail, how to design, commission and validate a MOVA controlled junction.

MOVA at Crossings

MOVA is highly suitable as a control strategy for all types of signal-controlled crossings for pedestrians, cyclists or horses. MOVA can be extremely effective at urban crossings being particularly responsive to pedestrian demands, but not penalising traffic in comparison with Vehicle Actuated Control systems.

MOVA Tools Simulation

A major new feature (introduced in MOVA Tools 2.0) allows simple simulation of a MOVA site which allows the operator to visually analyse the traffic flow and the impact of site configuration data on MOVA behavior.

The simulator is very simple and can be used to effectively “exercise” MOVA In a reasonably realistic environment. Up to 10 junctions can be simulated in a single file and facilities are available for phase confirms to be passed between junctions to allow linking.

Why Choose MOVA:

- MOVA is able to operate at a wide-range of junctions. Originally designed for isolated junctions, linked schemes such as signalised roundabouts are becoming more commonplace
- Not only is MOVA more efficient than VA, it has also been shown to improve safety through reduction of “red-light running” and shunt accidents
- The benefits of MOVA over VA control vary from site-to-site. Delay savings are typically between 10-20% but even greater improvements have been recorded
- There are in excess of 4000 sites in the UK with MOVA control, with the number increasing each year.

TRL Software, Crowthorne House, Nine Mile Ride, Wokingham, Berkshire, RG40 3GA United Kingdom
t +44 [0] 1344 779 777 **e** software@trl.co.uk **w** www.trlsoftware.com