

# SIDRA TRIP 1.1



## Vehicle Trip Assessment Software for GPS Data and Quick Scenario Analysis

*SIDRA TRIP 1.0 is a unique software for vehicle trip assessment using GPS Data and for quick scenario analysis. For transport managers to compare travel conditions on alternative routes, for traffic engineers and planners to assess network traffic performance, and for educators, to teach about vehicle movements and traffic performance. Assess intelligent transport system applications, driver training programs and vehicle characteristics.*

SIDRA TRIP 1.0 helps you model the environmental and cost impacts with ease - developed using our time-proven traffic modelling techniques common to all SIDRA SOLUTIONS products.

SIDRA TRIP is useful for educational purposes as one of its objectives is to improve understanding of relationship between vehicle movements and traffic performance, emission, fuel consumption, operating cost, user cost and vehicle noise parameters at a microscopic level.

### // SIDRA TRIP offers easy analysis

- When you have travel data collected using GPS units – you can import your data into SIDRA TRIP with ease using a variety of data formats and get your results faster.
- When you need quick scenario analysis – you can define trip scenarios effortlessly by simply specifying initial and final speeds to represent vehicle movements.

### // Using data generated by SIDRA TRIP

- You can compare traffic and travel conditions before and after introduction of traffic management schemes, intersection and road improvements, residential street traffic calming schemes, and similar applications.
- You can calibrate network microsimulation models, e.g. heavy vehicle acceleration-deceleration profiles, or macroscopic models, e.g. excess fuel consumption and emission factors.

### // SIDRA TRIP offers many powerful features like no other software

- determine vehicle operating and user costs including values of time, vehicle costs and toll costs;
- produce comprehensive travel level of service and performance statistics;
- estimate fuel consumption and emissions of Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), Hydrocarbons (HC) and Nitrogen Oxides (NO<sub>x</sub>);
- estimate noise levels (dBA) using 3 alternative models;
- analyse light and heavy vehicle acceleration and deceleration characteristics;
- analyse standard drive cycles used in vehicle fuel consumption and emission testing;
- animate vehicle movement using dynamic graphs;
- use Metric or US Customary units;
- create your own vehicle and driver types using parameters describing vehicle and driver characteristics for simulating passenger car, light vehicle and heavy vehicle movements;
- calibrate the parameters of the operating and user cost models for your local conditions.

### SYSTEM REQUIREMENTS

- **Processor:** 500 megahertz (MHz) processor or higher
- **Memory:** 512 MB RAM or higher
- **Display:** 1024x768 or higher resolution monitor
- **OS:** Windows 7, Windows Vista, Windows XP with Service Pack 2 (minimum), Windows 2000 with Service Pack 4 (minimum)
- **Other:** SIDRA TRIP will install .NET Framework 2.0 if not already present. This is a prerequisite for installation of the software. SIDRA TRIP will install Adobe Reader if not already present. This is a prerequisite for reading the User Guide.

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