

DATA SHEET

Quadstone Paramics

EMPOWER URBAN PLANNERS AND TRAFFIC ENGINEERS TO DESIGN SAFER, SMARTER, GREENER AND MORE EFFICIENT CITIES WITH LOCATION INTELLIGENCE FOR TRANSPORTATION INFRASTRUCTURE.



OVERVIEW

Summary

Quadstone Paramics is a leading microscopic traffic simulation software used by planning professionals over 80 countries to design efficient, economical, driver and pedestrian friendly transportation infrastructure allowing operational assessment for current and future year traffic conditions, detailed reporting of key MOE's and high definition presentations to non-technical stake holders.

Benefits

- Understand future year traffic patterns, drive times and traffic flows.
- Consider modes of travel including private vehicle, HOV, public transport, pedestrians.
- Report industry standard MOE's and LOS.
- Compare current and future year scenarios to determine the effect of proposed infrastructure changes.
- Communicate with non-technical audiences using high definition 3D

Quadstone Paramics is an award winning suite of microscopic simulation tools providing a powerful, integrated platform for modeling a complete range of real world traffic and transportation problems. Quadstone Paramics offers users the ability to simulate and analyze traffic and transportation engineering projects before committing to a design, enabling them to achieve project objectives within budget constraints.

The Paramics software is fully scalable and designed to handle scenarios as wide-ranging as a single intersection through to a congested freeway or the modeling of an entire city's traffic system. Used in over 80 countries world-wide by thousands of customers including commercial consultants, cutting edge transportation researchers and state-funded Government agencies, Paramics is the most consistently dependable traffic planning application available today.

Paramics combines simple network building and easy data import from existing models with class leading analysis tools and 3D presentation making it easy to get started, get results and convey your findings quickly. Backed by the best customer support in the industry including transport professionals who man our international helpdesk, Paramics is the transportation professional's tool of choice.

Freeways and Urban Design

Paramics has strong track record of application on some of the most congested freeways in the world utilizing a powerful yet

easy to use set of control parameters for freeway simulation. Supporting emerging trends in freeway management, Paramics provides dedicated tools that allow the user to easily model HOT, HOV and VSL (variable speed limit) scenarios.

Paramics provides a cost effective solution for traffic and transportation assessment using microsimulation. The Paramics software allows users to assess the effectiveness of road improvement schemes by highlighting changes in travel patterns and evaluating mitigation measures. This forms the basis for most economic appraisals, evaluation studies and travel demand management.

Public Transport

Paramics simulates a wide range of Public Transport (PT) facilities including bus, train, LRT and ferry services; any transportation system that follows a pre-determined path and stopping schedule can be accurately represented using Paramics. Paramics provides a comprehensive range of PT based reports providing insight into passenger wait times, oversaturation of services, occupancy values and actual journey times vs. scheduled service expected travel times.

ITS

Paramics offers a number of features to integrate emerging ITS technologies into current models. With an increased requirement to add information and communications technology to transport infrastructures and vehicles, Paramics has implemented features such as car parking

Quadstone Paramics

signage, Variable Speed Limits (VSL), High Occupancy Tolling (HOT), Vehicle Actuated (VA) signals and Incident Management to provide a more intelligent and dynamic network simulation.

Toll Plazas

Toll Plazas are easy to model in Paramics using combinations of vehicle restrictions and user defined driver populations. Electronic Toll Collection (ETC) and “stop and pay” options can be intermixed in the same Toll Plaza to evaluate a combination of strategies. To ensure realism and accuracy of results the user has complete control of stop time distributions and drive through speed for ETC facilities.

Pedestrians

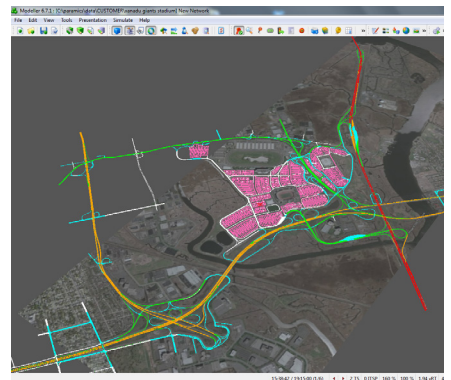
Quadstone Paramics provides a realistic representation of the “friction” to traffic flow caused by pedestrians. Our simple to use pedestrian modeling system allows users to obtain meaningful results quickly, ensuring a realistic model is developed within the minimum amount of time and resource. The Urban Analytics Framework (UAF) adds powerful spatial and agent analytics tools to provide an analytical evaluation of the quality of shared spaces for both road traffic and pedestrian users.

Environmental Impact

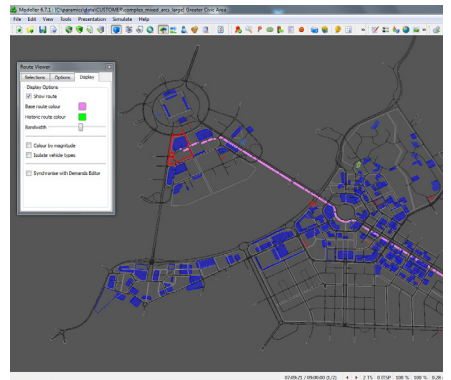
Paramics can be used to accurately model tailpipe emissions for various types of vehicle classification. Engine cycle data can be used to correctly replicate the different rates of pollutants generated under loads and driving styles. This allows managed lane strategies to be evaluated not only in terms of operational effectiveness but also in terms of their green credentials.



Paramics high definition 3D graphics



Paramics powerful attribute mapping



Complex route choice in urban areas

FOR MORE INFORMATION ON QUADSTONE
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SPECIFICATIONS

Supported Operating Systems: Windows XP 32bit / 64bit, Windows Vista 32bit / 64bit, Windows 7 32bit / 64bit

Every connection is a new opportunity™