Your Personal Mobility Modeling Lab.

aimsun.next

Next software allows you to model transportation networks small and large: from a single intersection to an entire region.

Use Next software to build a digital twin of a city or highway, then simulate the trips that people want to make, whether available options include taxis, buses, car-shares, bikes or even just walking.
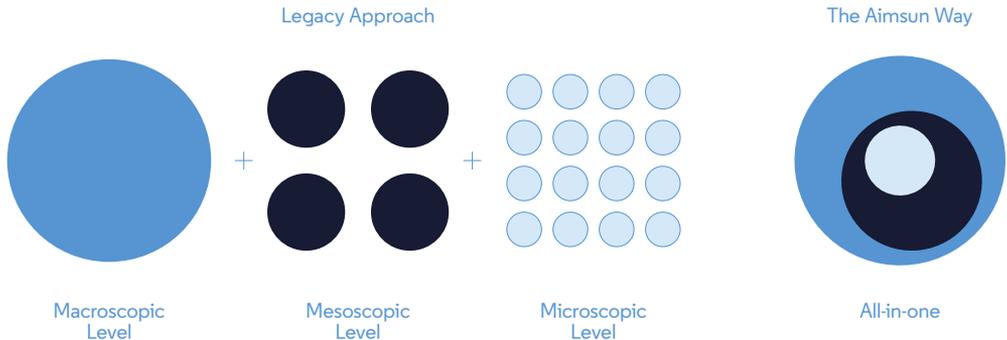
Digital modeling with Next software is a safe and cost-effective way to experiment with different designs or operations plans and to explore the impact of new technologies, like connected and autonomous vehicles.

Nearly 7000 professionals in 90 countries around the world use Next software to make important decisions about the future of our cities.

The Ultimate All-in-one.

Aimsun Next integrates microscopic, mesoscopic and macroscopic modeling within a single software application. The Advanced edition offers static and dynamic traffic assignment and simultaneous microscopic/mesoscopic simulation, blending superior computational efficiency with precise representation of traffic dynamics.

Taking fusion to an unprecedented level, the new Aimsun Next Expert edition includes all this plus travel demand modeling, giving you complete control over a traffic modeling project, of any size, from beginning to end, using a single software package.

Legacy Approach

The Aimsun Way

Macroscopic Level

Mesoscopic Level

Microscopic Level

All-in-one

Consolidate your traffic modeling in one multi-purpose, multi-layer simulation suite and see the benefits:

- Choose the right tool for the right project rather than creating projects to fit the tools
- Build extensible models on a larger and larger scale using a single all-in-one package

- Eliminate tedious and errorprone manual interfacing between different macroscopic, mesoscopic and microscopic software packages
- Reduce software costs and expertise turnover

Speed.

Multithreaded software architecture means that even on a laptop our microsimulator can run a model of the entire city of Singapore two to three times faster than real time. Our static assignment runs on multiple threads and our mesoscopic simulator can model dynamic aspects of very large networks and is being used to successfully build and calibrate some of the world's largest dynamic models in Montreal, Melbourne, Toronto and New York City.

High speed simulation frees you up to:

· Simulate larger areas without leaving out problem zones
· Test a greater number of scenarios in the time available allowing for broader analysis for a variety of traffic conditions
· Deal with time-critical situations

Dynamic Traffic Assignment.

Aimsun Next enables dynamic traffic assignment (DTA) based on user equilibrium and/or stochastic route choice. DTA can be combined with either mesoscopic or microscopic simulation. This framework gives you the unrivalled flexibility of modeling steady-state behavior as well as reactions to non-recurring scenarios. The result is the most realistic representation possible of driver behavior.

7:15

8:45

Editions.

Select the Aimsun Next edition that matches your modeling needs:

Pro
Three flavors of single-level modeling: Pro Micro, Pro Meso and Pro TDM. Enjoy access to the full Aimsun Next platform with no network size limitations in whichever flavor best fits your requirements.

Advanced
Microscopic, mesoscopic and hybrid simulator coupled with the richest traffic assignment toolkit on the market for super-sized applications of any kind.

Expert
Add travel demand modeling to all the benefits included in the Advanced edition: now you can use a single software package for an entire transportation modeling project of any scale, from entering raw geographical and socio-economic data all the way through to micro-simulation and anything in between.

Visit our website for a complete list of features available with each edition.

Interoperable

Aimsun Next fits right in with your existing software and can exchange data with the most popular CAD, GIS, traffic modeling, signal optimization and adaptive control software tools.

Multithreaded

For unbeatable speed, completely redefining what you can include in a dynamic model, from a major city to a complex highway network.

Multiplatform

Mac OS X
Linux Ubuntu
Windows

Unrestricted

For handling very large models that can be expanded with no network size limitations.

User Friendly

Aimsun Next's user interface is intuitive, mouse-oriented and easy to use right from the start.

Customizable & Extensible

Make Aimsun Next your own using familiar industry standards such as Python and C++.

aimsun.
A Siemens Business

Move Brilliantly.

Barcelona • Edinburgh • London
Melbourne • New York City
Paris • Singapore • Sydney

Aimsun has offices and official distributors
providing software and services around the
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