



Traffic simulation software your city can plan on

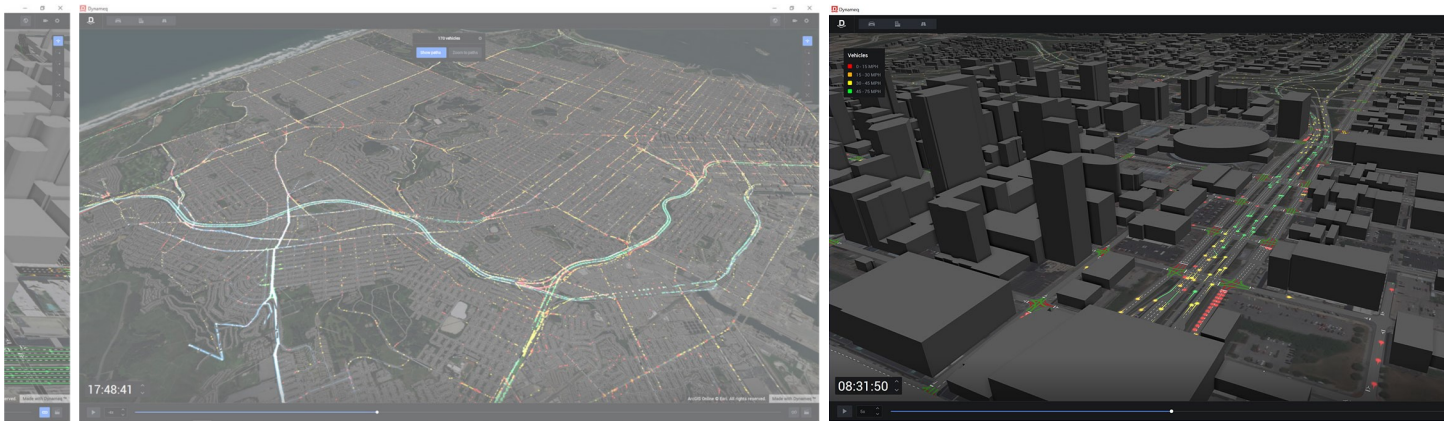
Simulate and visualize operational traffic studies with a single, consistently detailed simulation platform for your entire city.

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Vehicle-based Traffic Simulation and DTA

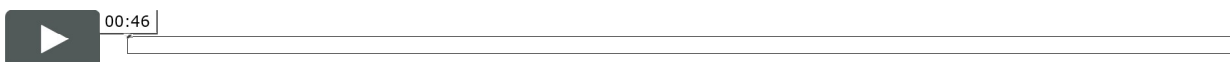
Dynameq is a vehicle-based traffic simulation and dynamic traffic assignment (DTA) that combines mesoscopic and microscopic properties to create traffic simulation fit for planning your city. Dynameq provides scalability from a single congested corridor to an entire city, all without losing detail. Vehicle trajectories over the entire network provide the transparency needed to understand exactly what is happening in the network, wherever and whenever it matters.





3D, 360° Simulation Playback

Seeing is believing. Immersive, interactive simulation playback brings stunning clarity to traffic simulations, from individual vehicles to bottlenecks to route diversion on parallel corridors. Illuminate vehicle route choice in a few clicks and understand how traffic patterns change across the city. Storyboard and share animations with production-quality video recording.



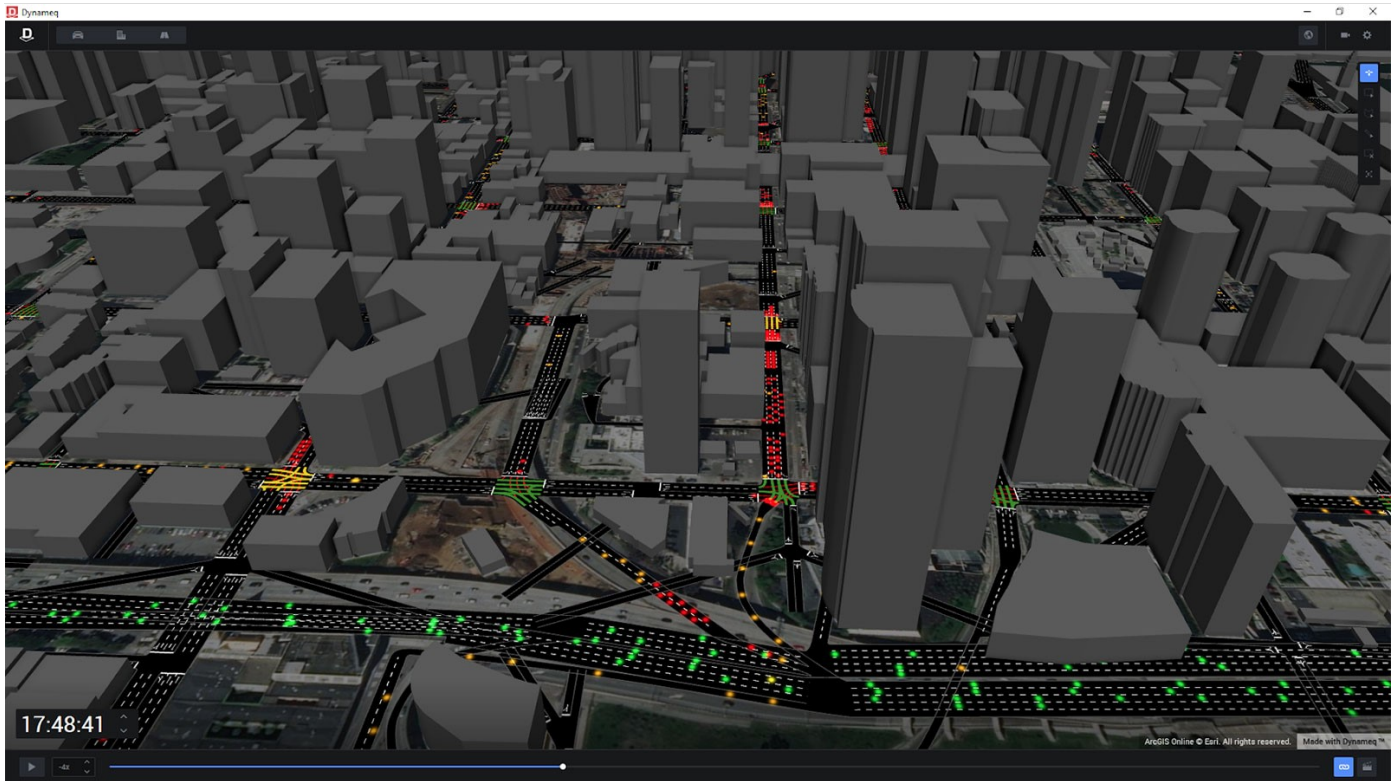


ONE MODEL, MANY APPLICATIONS

Detail at Scale. One platform for consistent city-wide traffic planning, from site impact and signal operations to off-corridor diversion and large-scale impacts.

Detail

Scale



Dynameq simulates individual vehicles with car-following, lane changing and gap acceptance behavior to produce realistic traffic behavior.

Signal operations

Transit signal priority

Roundabouts

Ramp metering

Interchange configuration

Active traffic management

The right tools, from a single corridor to an entire city





Performance

Spend more time designing solutions and evaluating alternatives. Dynameq is optimized for 64-bit computing, high-performance CPUs and discrete graphics (GPU) allowing you to work with larger simulations and more heavily congested networks.

Future-year demand? No problem

When you want to run demand scenarios reaching out ten, twenty, or thirty years, Dynameq's assignment methodology provides converged and stable solutions. Rather than seeing gridlocked conditions, you'll see outputs indicating critical bottlenecks, showing where to direct your attention for fast and efficient model development and calibration.

Signal timings

Use Dynameq's signal plan generator to produce signals for future scenarios or to fill in missing information from existing signal plans. The signal plan generator can design phases, compute timing parameters and define and synchronize corridors.

Toll modelling toolkit

Dynameq's generalized-cost assignment makes it easy to create fixed or time-of-day tolls by vehicle class. APIs provide a flexible approach for implementing dynamic, congestion-dependent tolling strategies.

Reliable route choice

Dynameq dynamic user equilibrium (DUE) routing reflects how drivers make decisions based on day-to-day learning and experienced travel times by anticipating congestion on alternative routes.

Transit signal priority and preemption


Dynameq explicitly models transit-actuated signal priority and preemption using early/late green and phase insertion logic.

Streamlined network development

Dynameq streamlines the process of preparing your network in a multitude of ways with robust import/export modules, advanced defaults, intelligent editing functions for intersections and ramps, and much more.





What can you do with Dynameq? 

Tolling

Dynameq's generalized-cost assignment makes it easy to implement fixed or time-of-day tolling like HOT lanes with customizable APIs for real-time simulation access. Dynameq models have been used in many real-world studies.

Industry Leading Support





Technical Support

Unlimited, personalized and attentive support via telephone
hotline and email contact

Contact support

Training

Learn software features and modelling concepts in our highly-
regarded training courses

Find training near you

Community Forums

Connect with the global user community in
the INRO Forums

Visit the forums





Ready to get started?

Take the first step towards a successful DTA project with Dynameq.

Talk to a specialist

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