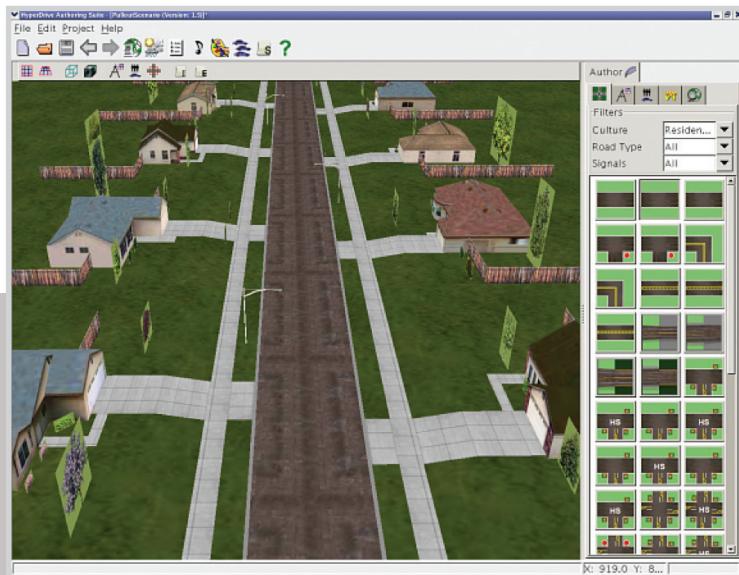
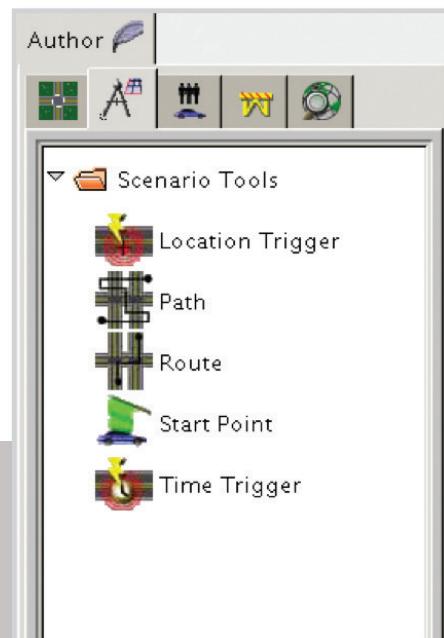




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Scenario builder



Simulation tools

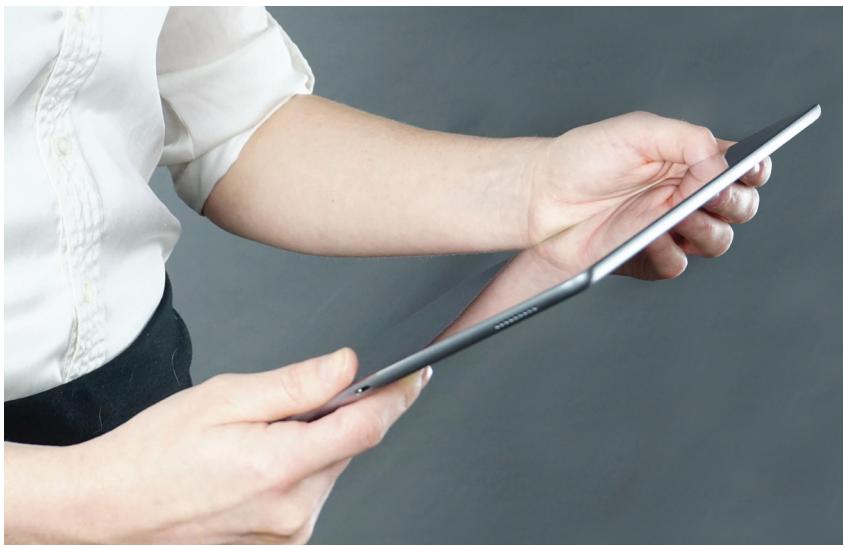
“Using HyperDrive software with our research simulators allows us to create precise scenarios and use them repeatedly with a wide variety of patients. This repeatability across a broad sample helps in our research and limits the uncontrollable variables that exist on the open road or even in a parking lot.”

—MARC SAMUELS  
Former OTR, SCDCM, CDRS, Adaptive Mobility Services

# HYPERDRIVE™ AUTHORING SUITE™ THE KEY TO INNOVATIVE AUTOMOTIVE RESEARCH

DriveSafety makes high-fidelity driving simulators for research applications such as traffic safety, vehicle and roadway design, driver distraction, human interface design, driver assistance and information systems. A significant part of the expense associated with using driving simulation is the recurring cost of content development. Traditional content development requires programming resources and drives up the cost of using a simulation system. The power to develop specific content applications has not traditionally been in the hands of the domain experts, until now.

The DriveSafety HyperDrive Authoring Suite is an integrated, PC-based software development platform that puts the power to create driving simulation content into the hands of domain experts. HyperDrive has a point-and-click, drag-and-drop software interface so that even non-technical users can design, build, execute, and analyze driving scenarios without needing technical training or hiring programming resources. HyperDrive tools make a significant impact in both the usability and affordability of driving simulation systems.



"With our DriveSafety simulator and HyperDrive Authoring Suite, we have virtually limitless options for testing behaviors in just about any kind of scenario. The complexities of driving are well known. The simulator has helped us uncover and then document those complexities with a high degree of accuracy."

-DEB MACAVOY  
Associate Professor, Ohio Research Institute for Transportation and the Environment (ORITE)

Designed to help foster new and innovative research, the HyperDrive Suite contains research-inspired activities that replicate real driving and deliver the following benefits:

#### Tile-Based Scene Authoring

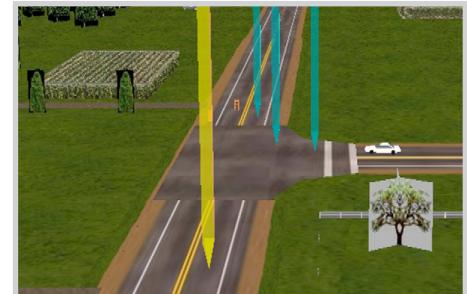
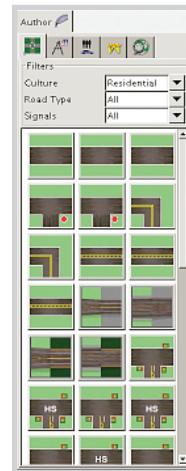
- Over 400 road/environment tiles
- Drag and drop
- Rural, Urban, Industrial, Residential, Freeway
- Over 40 vehicles
- Moving pedestrians, bicyclists, animals
- Various types of intersections and intersection controls
- Curbs, pot-holes, off-road terrain surfaces
- Import custom tiles, entities, images and sounds

#### Event & Behavior Triggers

- Time based triggers
- Location based triggers
- Conditional triggers
- Control:
  - Traffic signage including customizable signs
  - Autonomous interactive ambient traffic
  - Extensive, interactive scripted vehicle activity
  - Internal, external and manual triggers
  - Variable roadway friction, lighting and weather effects

#### Data Collection

- 60 Hz real-time data collection
- Over 80 standard performance measures
- 25 user-definable data collection variables
- Output ideal for spreadsheets, graphing & statistical analysis packages
- Definable collection rate
- Location specific collection
- Entity specific collection
- Scripting
- Utilize Tcl/Tk to extend possibilities
- Over 140 predefined scripting commands
- GUI-based scripting tool
- Easy external device/application integration



Scenario builder

Simulation tools