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TransModeler SE Integration with HCS7

Now in Release 7.7, TransModeler SE replaces CORSIM as the animator in the HCS7 Streets module. Through the generosity of Caliper Corporation, TransModeler SE licenses are available at no cost to HCS users for one year. Animation for other analysis types will follow.

TransModeler SE is a low-cost but high-fidelity traffic microsimulation software that is designed to put powerful, easy-to-use microsimulation and 3D visualization at every traffic engineer’s disposal.

TransModeler SE integrates traffic simulation with HCM analysis, traffic impact analysis (TIA), and signal optimization and will therefore serve as a bridge from HCS analyses to a range of more advanced traffic analysis and microsimulation applications.

The full functionality and flexibility of TransModeler SE is now available to users who wish to extend their HCM analysis to more detailed and more accurate evaluation of a broader variety of geometric designs, from single-lane and multi-lane roundabouts to novel intersection and interchange designs, such as RCUT, MUT, CGT, CFI, DDI, and more. This integration has been completed for the Streets module, with adding simulation and animation support using TMSE for the TWSC, AWSC and Roundabouts modules coming soon.
Two-Lane Highways

McTrans has completed the initial implementation of the new Two-Lane draft HCM chapter. If you are interested in beta testing the new methodology, we can provide a beta copy with a beta test agreement – just let us know.

HCS7 Release 7.7

In Release 7.7, simulation and animation support for TransModeler SE traffic simulation software developed by Caliper Corporation was added and replaces the Quick Animation button on the toolbar to run TransModeler SE instead of TSIS-CORSIM. Several improvements to the Freeways module have been implemented, including the planning level analysis. The Highway Safety Software now displays both expected and predicted crashes with changing from intersection to and from segment sections now facilitated.
Highway Capacity Analysis Webinar Series

Including detailed information on HCM 6th Edition and HCS7

This webinar series presents lectures, software demonstrations and application examples on the Highway Capacity Manual (HCM) procedures – including updates in the 6th Edition. Step-by-step instructions of the HCM methodologies will be provided for each analytical chapter. The Highway Capacity Software (HCS) implements and automates the HCM procedures. Each lecture will be followed by working example problems and a software demonstration using the HCS7 prototype. A comprehensive workbook is provided to include all slides. Registration is provided in four sections (Streets, Unsignal, Freeways and Highways) with the Overview included with any registration and a discount for the entire series.

The series is organized over four days as follows with all presented from 1:00 PM to 4:00 PM ET. Detailed course descriptions and registration can be found at mctrans.ce.ufl.edu/training.

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HCM 6th Edition Webinar Video

The Highway Capacity Manual (HCM) 6th Edition is now available from the TRB. This ninety-minute video provides an overview of the changes as compared with the HCM 2010, including some methodological details and the implementation in the Highway Capacity Software (HCS7) – check our training page for availability at mctrans.ce.ufl.edu/training.

Overview of the new HCM 6th Edition and Comparisons with the HCM 2010

- Basic Freeway, Freeway Weaving and Freeway Merge & Diverge Segments (Speed-Flow Curves, Managed Lanes, Weather, Incidents, Calibration, Trucks)
- Freeway Facilities, Multilane Highways and Two-Lane Highways (Travel Time Reliability, ATDM, Managed Lanes, Weather, Incidents, Trucks)
- Unsignalized Intersections including TWSC, AWSC and Roundabouts
- Signalized Intersections (Unsignalized Movements, HV & Grade, Planning)
- Urban Streets Segments and Facilities including Reliability and ATDM (Roundabout Segments, Sustained Spillback, Lane Blockage, RTOR, LOS)
- Ramp Terminals and Alternative Intersections (DDI, DLT, RCUT, MUT) (Experienced Travel Time, Extra Distance Travel Time, U-Turn Crossovers)
- HCS7 Demonstration of HCM6 Implementation.

A MESSAGE FROM BILL SAMPSON

McTrans is very excited to move forward in our new partnership with Caliper Corporation and the integration of TransModeler SE with HCS7. We are convinced that this relationship will benefit HCS and TransModeler users by providing this interaction between the two tools to take advantage of the special capabilities of both packages. A special thanks to Howard Slavin, Dan Morgan, Michael Armstrong and Tom Creasey of Caliper and our own Vishal Khanapur for making this all possible.

Bill Sampson, Director