

**Title:** Development of an Integrated Transportation Planning and Operations Model for Memphis, TN

**Description:**

An integrated transportation model is proposed to be developed for the Memphis, Tennessee metropolitan area that will incorporate the existing transportation planning model developed based on TRANSCAD, a Dynamic traffic Assignment (DTA) model using the Visual Interactive System for Transport Algorithms (VISTA), a microscopic traffic simulator using the PARAMICS software and a traffic operations software using SYNCHRO. The integrated model will provide a comprehensive tool for planners and traffic operators to model various infrastructure and operations alternatives and select the best ones for implementation. Its implementation in Memphis Tennessee will provide a comprehensive research tool for both training, classroom use, research and provide the basis for the development of an implementation tool – with further calibration - that could be adopted by the MPOs, DOT, emergency operators and the City.

**Start Date:** 2011/1/1

**End Date:** 2012/6/30

**Funding Source:** The Center for Advanced Intermodal Technologies (CAIT)

**Sponsor Organization:** University of Memphis, Center for Advanced Intermodal Technologies, 3815 Central Avenue, Memphis, TN 38152-3370

**Matching Funds:** CUNY Institute for Transportation Systems Universal Transportation Model Simulation Center and VISTA Transport Group (VTG) Inc.

**Performing Organization:** University of Memphis, Center for Advanced Intermodal Technologies, 3815 Central Avenue, Memphis, TN 38152-3370

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