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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