

RD&T Technology Facilitation Action Plan

New Microscopic Traffic Simulator Development

PRODUCT

Description of Product : The product from this work is a new microscopic traffic simulation model and its corresponding user manual and documentation. The objective of the New Microscopic Traffic Simulator is to develop a new microscopic traffic simulation model that meets FHWA research needs in terms of detailed traffic operational analyses. FHWA's current simulation model, CORSIM, is the simulation engine underlying the FHWA's Traffic Software Integrated System (TSIS) suite of tools. CORSIM is a descendant of 1970's computer software and hardware technology. The new simulation model will be developed using modern modular software engineering and will replace the CORSIM model as FHWA's primary tool for traffic operations research and analysis.

Intended User: Traffic researchers, traffic operators

Distribution methods: TBD, but will likely be distributed through the McTrans Software Center.

Alternative Formats:

Delivery Dates: TBD. The delivery date is dependent on the software development approach which is currently being formulated.

PROGRAM/PRODUCT SUPPORT

CBU Contact(s):

Operations: Ron Giguere
 Planning & Environment: Brian Gardner
 Safety: TBD.

Resource Center Contact(s):

Division Office Contact(s):

Mike Schauer, NY Division
 Chung Tran, FL Division

Other Contact(s):

Safety R&D: Carol Tan Esse
 Safety R&D: Joe Bared
 FTA: Sherry Riklin

OUTREACH

Conference Presentations: Likely conference presentations will include TRB, ITS America, and ITE Annual Meetings.

Publications: Likely publications include FHWA R&D Transporter, FHWA Public Roads, and ITE Journal. Final product publications will include the User's Manual and Technical manuals.

Other Outreach Activities: Current status of the development effort will be available on as yet to be determined FHWA website.

TRAINING

Materials Needed: The existing TSIS/CORSIM courses will need to be updated to include the new simulation model. Delivery of the new model is estimated for FY 03, and the updated course should be available at the same time.

Instructor Requirements: Knowledge of simulation and modeling and traffic operations.

Schedule of Training/Workshop/Briefing: TBD. Training course should be available upon release of software.

Intended Audience: Traffic researchers, traffic operations staff

Alternative Formats:

PROGRAM INTEGRATION

CBU Contact:

Operations:	Ron Giguere
Planning & Environment:	Brian Gardner
Safety:	TBD.

Research Contacts: Gene McHale, Operations R&D, 202-493-3275
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Follow-up Activities:

