Chapter 13

Mn/DOT’s Modeling Website

Office of Traffic, Security and Operations
TRAFFIC ENGINEERING
CORRIDOR SIMULATION

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Introduction

Why Was the Modeling Website Created?

• To Educate Traffic Professionals
• To Clarify Modeling Requirement
• To Provide Resource Materials
• To Establish a System Modeling Process
• To Provide Real World Example
• To Facilitate Data Extraction Process
Modeling Website
What is Available?

• Federal & Mn/DOT Modeling Requirements
• Advanced CORSIM Manual
• Sample Modeling Project
• Data Extraction Cookbook
• Modeling Resource Materials
• Hotlinks to Other Modeling Websites
Glossary of Terms

- IJR – Interstate Justification Request
- IAR – Interstate Access Request
- TSIS – Traffic Software Integrated System
- CORSIM – CORridor SIMulation
- IRIS – Intelligent Roadway Information System
- MIST – Metro Incident Selection Tool
- MOE – Measures of Effectiveness
Federal & State Modeling Requirements

- Federal IAR Requirements
  - HPDP Handbook 8 Requirements
- FHWA/MN Division IJR Guide
- Mn/DOT Modeling Guidelines
- CORSIM Calibration Parameters
Advanced CORSIM Manual

- Manual Was Jointly Funded by FHWA, Mn/DOT & Hennepin County
- Developed by SEH
- Operational Analysis Requiring Mn/DOT & Federal Approval
- Lays Out the Modeling Development Process
### Advanced CORSIM Manual

- **View Manual On-line by Entire Document or Chapter**
- **Ability to Download the Entire Manual**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>PDF</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORSIM Manual V.11 (Complete 4 Mb pdf)</td>
<td>pdf</td>
</tr>
<tr>
<td>Cover</td>
<td>pdf</td>
</tr>
<tr>
<td>Table of Contents Pages</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 1 - Modeling Process</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 2 - Project Scoping</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 3 - Data Collection</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 4 - Base Model Process</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 5 - Organization &amp; Review</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 6 - Calibration</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 7 - M.O.E's &amp; Reports</td>
<td>pdf</td>
</tr>
<tr>
<td>Chapter 8 - Alternatives</td>
<td>pdf</td>
</tr>
<tr>
<td>Appendix</td>
<td>pdf</td>
</tr>
</tbody>
</table>
Sample Modeling Project

- Physical Input
- Traffic Demand Data
- Synchro & TSIS Files
- MOE Results
Data Extraction Cookbook

- Developed For External Customers
- Facilitate the Extraction of System Data & Information
- Access to In-house Programs & Database
- View On-line or Download Document
Modeling Resource Materials

- FHWA Materials
  - Traffic Analysis Tools Primer
  - Decision Support Methodology For Selecting Traffic Analysis Tools
  - Guidelines for Applying Microsimulation Modeling Software
- Research Papers
Modeling Website Hotlinks

- FHWA Traffic Analysis Tools
- TSIS User Support Website
- Purchasing Information McTrans Center
  PC TRANS