



Project of the Year 2007-08: Nominated Project

Chicago TMC - Phase 2

Chicago is leading major cities by combining traffic and emergency management, and public safety under unified command. To implement this strategy Phase 2 Chicago TMC development focuses on requirements and specifications to integrate an Advanced Traffic Management System with existing 911, Operations, and Incident Centers and systems. TMC Phase 2 is structured as 13 major subsystems to perform functions required for traffic operations and to interface with CAD, Permit, video, and other systems, and the Gateway in accord with the regional ITS architecture.

Major ATMS subsystems include: CCTV, VMS, HAR, Map, External I/O, Data Warehouse, and Signals. The "brains" are the Alarm and Event Management subsystem and the Incident Management subsystem. These function to identify events requiring response and to direct actions to the appropriate subsystem to develop and implement a response plan.

A particularly unique function will be performed by the Arterial Performance Monitoring and Management subsystem. The APMS addresses a major gap in ITS operational data - the current lack of real-time information on arterial traffic conditions. APMS uses signal, video, detector, and probe data to monitor arterials. This data enables actions to address recurrent and non-recurrent congestion, incidents, special events, and emergencies. In some cases the actions require changes in plans. In many cases the actions will be operational. All are integrated actions.



Project
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