TUESDAY, SEPTEMBER 22, 2009

8:00 AM  Welcome and Keynote

Welcome: Sara Chesebro, Emcee, California Department of Transportation, Travel Forecasting & Analysis
Keynote: Coco Briseno, California Department of Transportation, Division of Transportation System Information

8:30 AM  Highway Data Overview – Panel Session

What are the biggest challenges and/or the top priorities of your state’s DOT for collecting and managing data and how are you pursuing these?

Presenting remotely:
Rodney Floyd, Chief, Transportation Statistics Office, Florida Department of Transportation
Ron Vibbert, Mgr, Asset Mgmt Section, Bureau of Transp Ping, Michigan Dept of Transportation
Rob Robinson, Data Management Unit Chief, Illinois Department of Transportation
Bill Cloud, Chief, Data and Statistics Bureau, Montana Department of Transportation

Presenting on site:
Michael Fay, Supervisor, Highway Data Section, New York State Department of Transportation

11:00 AM  HPMS Reassessment, Implementing Change

HPMS since it’s inception in the early 80’s, has been a vital program for FHWA. Much of the data reported in the system has a direct impact on funding, planning, performance measurement, and public accessibility to a vast amount of highway related data. This session will review the basic purpose and functionality of the HPMS with a focus on the upcoming HPMS 2010+ Reassessment.

Robert Rozycki, FHWA, Office of Highway Policy Information

1:00 PM  HERS-ST using HPMS Data

A detailed breakout of a major use of HPMS data, the (Highway Economic Requirements System (HERS) model, will be presented within this session.

Chris Chang, FHWA, Office of Asset Management
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8:00 AM  **Use of the Web as a Tool to Display GIS Maps**

What has been occurring in the last few years is the further use of the web as a tool to display GIS maps, for instance, the use of Google maps that allow for displaying third party maps when they are geo-referenced. One in-house example is the street view feature Google maps provides and that is linked up with our GIS maps created for the Advanced Planning Department to quickly view locations in light of ADA requirements. Meanwhile, another example is the right-of-way information displayed via map-linking on Google Earth.

Chris Urkofsky, Caltrans District 4 - Right-of-Way Engineering & Surveys
Dick Fahey, Caltrans District 4 - Office of System and Regional Planning

9:00 AM  **Pavement Management Program at the City/County Level**

This presentation focuses on how MTC uses StreetSaver in the region to track jurisdictions’ performance in the area of preventive maintenance / pavement preservation, and how we use performance measures in the allocation of regional funding for local street and road maintenance. The presentation will give an overview of the software and how it is used as an asset management tool in our region.

Sui G. Tan, Regional Streets & Roads Program, Metropolitan Transportation Commission (MTC)
Theresa Romell, Regional Streets & Roads Program, Metropolitan Transportation Commission (MTC)

11:00 AM  **Measuring the Quality of Traffic Information**

While there are numerous data collection and estimation methods in use today, there are no broadly-accepted metrics to measure the quality of traffic information. The emergence of private providers of traffic information requires that agencies be able to verify and monitor the quality of data in order to procure it. This technical session will highlight work currently underway in both academia and industry groups to bring about clear and robust metrics and methodologies that allow agencies to evaluate and benchmark data services against their needs.

Len Konecny, Vice President, Business Development, Clear Channel Radio - Total Traffic Network
Chris Scofield, Principal Scientist, Inrix
Dr. Kristin Tufte, PhD, Research Assistant Professor, Portland State University

12:00 PM  **Mobile Millennium: GPS Mobile Phone as Traffic Sensors**

A partnership between Caltrans, UC Berkeley, NAVTEQ and Nokia—with support from the federal Safe Trip-21 initiative—the Mobile Millennium pilot project intends to establish the modalities of traffic data collection from mainstream mobile GPS devices. With speakers from the California Center for Innovative Technology (CCIT) and the Nokia Research Center, this technical session will highlight key features of what constitutes an integrated research and development (R&D) program, including findings from the February 2008 Mobile Center field experiment, the design of the Mobile Millennium pilot, and what this all means for roadway operators.

Alexandre Bayen, Assistant Professor, Civil and Environmental Engineering,
UC Berkeley ITS California Center for Innovative Technology (CCIT)
Joe Butler, Mobile Millennium Project Manager, UC Berkeley ITS California Center for Innovative Technology (CCIT)

2:00 PM  **Tour of Caltrans District 4 TMC & MTC's 511.org Ops Center**

This event is presented to the attendees only and it is not part of the web-cast

This field trip will feature the real-time operations of the Caltrans District 4 Traffic Management Center (TMC) and its integration with the 511.org services provided by the Metropolitan transportation Commission (MTC), which serves as the metropolitan planning organization (MPO) for the nine-county San Francisco Bay Area. The co-location of these two separate programs is a testament to successful inter-agency cooperation that benefits the traveling public.

Kane Wong, Caltrans District 4 Traffic Operations
8:00 AM **Strategies and Challenges of Web-Based Applications in Highway Data Management**

This presentation will identify hits and misses in developing web-based applications. Successful examples will be reviewed and lessons learned will be discussed. Specific issues for GIS integration (e.g. Google maps) will be addressed. The technology trend will also be highlighted

Ben Chen, Midwestern Software Solutions

9:00 AM **Integrated Data System Structure for Active Traffic Management, Planning & Operations**

With the development of technologies and their market penetration, more and more data resources seem available for traffic planning and operating such as VII (Vehicle Infrastructure Integration including cell phone, Toll Plaza Transponder, etc.) and road sensors (loop detectors, microwave radar, lidar, video camera, etc.). Discussion about how to integrate the data sources on the common platform is underway in the intelligent transportation-systems community. On the other hand, it is necessary to look at what active traffic management strategies are feasible and are likely to be effective in other countries, such as those in Europe, and what is the minimum data requirement for implementing them. The session will address the following points:

- Overall picture of near future Active Traffic Management System (ATMS)
- Data system required to support ATMS
- How to maximize the use of current traffic data systems in future development
- Closely-related challenging issues

Dr. Xiao-Yun Lu, UC Berkeley ITS Partners for Advanced Transit and Highways (PATH)