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Minutes of Committee Meeting

Transportation Asset Management Committee - ABC40

Hilton Hotel, Washington, D.C.

Monday, January 24, 2011, 1:30-5:30 PM

Welcome and Introductions

The new committee Chair, Katie Zimmerman, called the meeting to order at 1:30 PM. The Chair opened the meeting by welcoming the Committee's members and friends. Copies of the meeting agenda were distributed. An attendance roster and membership list was circulated for validation. The attendants made self-introductions.

TRB Related Activities

1. The Minutes of 2010 Annual Committee Meeting

The minutes of 2010 annual committee meeting was accepted.

2. TRB Staff and Section Reports

Tom Palmerlee and Barbara Martin of TRB briefly discussed following items:

- Research Needs Statements. The research needs statements submitted have been loaded to the searchable database.
- TAM Committee 2011-2014 Strategic Plan. The updating of TAM Committee 2011-2014 Strategic Plan began in summer 2010. The draft version of the updated Strategic Plan was reviewed at the 2011 Annual TRB Meeting. Major updating include changes to the previous subcommittee structure and revisions to the committee vision, mission, scope, and goals. The final version of the Strategic Plan will serve as a blueprint for the Committee over the next 5 years and will guide the development of annual Action Plans for each of the new Subcommittees.
- The draft Strategic Plan was reviewed by the Committee membership and friends at the 2011 TRB Annual Meeting. Following the Annual Meeting, the document will be finalized and the Subcommittees will be charged with finalizing and implementing their Action Plans.
- TRB, FHWA, and AASHTO Collaboration. Travel restrictions motivate exploring other means to keep the three leading entities closely connected to promote asset management implementation in the country. In particular, Webinar series will be arranged more frequently to fulfill this need.
- 2012 TRB Annual Meeting. The 2012 Annual TRB Meeting will be held on January 22-26, 2012. The next year's spotlight theme is *Transportation: Putting Innovation and People to Work*. Some cosponsored sessions with TRB design, construction, and safety committees may be arranged. TRB will continue using exhibits to provide a venue for interactions among the meeting attendants.

3. TRB Committee Annual Report and Update

a. *Membership Status*

The Committee members are comprised of regular, young, international, and emeritus members. The current 22 members on the Committee include two young members, one international member, and one emeritus member (Dr. Sue McNeil). Two vacant seats are available for young membership and four are available for international membership.

b. *2010 Midyear Meeting Results*

Nearly 30 people (plus 6-12 remote participants) attended the 2010 TAM Committee midyear meeting held in Washington, D.C. on August 31st and September 1st. The midyear meeting was mainly featured by an opening session, presentations, breakout groups and workshop, research statements, and annual meeting plans. The opening session provided a summary of the ongoing TAM activities in the FHWA, AASHTO, and TRB including NCHRP. The presentations introduced other considerations affecting the use of TAM tools in state transportation agencies. Sufficient time was spent in breakout groups to develop recommendations for short- and long-term committee activities that should be included in the updated strategic plan. Some meeting attendees also met to discuss the development of research problem statements. The final item involved making plans for the 2011 annual meeting to finalize names of speakers and moderators for all sessions no later than September 23, 2010.

c. *2011 Annual Meeting Report*

- Paper Reviews. For the 2011 Annual TRB Meeting, the Committee received 8 papers overall. One paper was recommended for publication. Fifty reviews were assigned.
- TAM Committee Sessions. Two Committee-sponsored paper sessions, three co-sponsored paper sessions, and one poster session were arranged.
 - Paper Session 626: ABC40 Managing and Assessing Risk in Transportation Agencies Hilton, Columbia Hall 8 Jan 25 2011 7:30PM- 9:30PM
 - Paper Session 410: ABC40 Best Papers from Sixth Annual Interuniversity Symposium on Infrastructure Management Hilton, Columbia Hall 5 Jan 24 2011 7:30PM- 9:30PM
 - Paper Session 229: ABC30 National Transportation Performance Measures: What's on the Table? What's in Store for the Future? Hilton, International East Jan 24 2011 8:00AM- 9:45AM
 - Paper Session 285: ADA20 Intersection of Transportation Asset Management and Metropolitan Planning and Funding Processes Hilton, Jefferson East Jan 24 2011 10:15AM- 12:00PM
 - Paper Session 699: ABJ20 Data Quality and the Quest for Asset Performance Information Hilton, Lincoln East Jan 26 2011 10:15AM- 12:00PM
 - Poster Session 256: ABC40 The Next Frontier in Transportation Asset Management Hilton, International Center Jan 24 2011 9:30AM- 12:00PM

- TAM Committee Workshop. One Committee-sponsored workshop and two co-sponsored workshops were arranged.
 - Workshop 124: ABC40 How to Implement a Transportation Asset Management Program in Your Organization Hilton, Lincoln East Jan 23 2011 9:00AM- 12:00PM
 - Workshop 106: AHD35 Nondestructive Evaluation for Bridge Maintenance Marriott, Thurgood Marshall South Jan 23 2011 9:00AM- 12:00PM
 - Work Shop 127: ABE10 Looking Beyond the Ribbon Cutting: Funding and Financing for Life-Cycle Management of Transportation Infrastructure Hilton, International West Jan 23 2011 9:00AM- 12:00PM
- Committee Meetings. The following Committee meetings are relevant to addressing transportation asset management issues:
 - TAM Committee Meeting, Monday January 24 2010, 1:30PM- 5:30PM - Hilton
 - TAM Committee/ AASHTO Asset Management Subcommittee Joint Meeting, Monday January 24 2010, 10:15AM- 12:00PM - Hilton
 - Pavement Management Systems Committee Meeting, January 24, 2011, 8:00AM- 12:00PM - Marriott.

d. *Activities*

- TRNews. A number of Committee members and friends have contributed to the publication of TR News September-October 2010: *Asset Management for a Durable Infrastructure*. This issue highlights practical perspectives on programs in two states and one county with an overview of the necessary tools; insights into change management; the benefits of asset management for local communities; the use of visualization for management of transportation assets; and choosing the right fix at the right time to increase the service life of assets.
- TRB Special Task Force on Data for Decisions and Performance Measures. The Special Task Force coordinates the activities of, and facilitates communication among, the TRB standing committees regarding the crosscutting issues of data resources to support decision making and performance measures. the proposed activities include: i) conceptualizing an appropriate decision framework; ii) determining an appropriate strategy to evaluate the existing data infrastructure; iii) developing research needs statements to apply the identified evaluation; and iv) communicating the task force's activities and findings to promote the creation of a data culture.
- Peer Exchange. Scheduled at District 11 Office of Caltrans on April 4-6, 2011, the Peer Exchange draws participants from six states and MPOs in California to discuss available information systems to monitor and control transportation-induced greenhouse gas emissions, to identify realistically achievable targets for reducing greenhouse gas emissions, and to incorporate such targets into transportation asset management.
- TRB Policy and Organization Group (POG) Initiative. One Webinar was held. The Committee members and friends are encouraged to keep the Committee Chair informed of their thoughts on exploring the role and opportunities for POG Committees in considerations for Surface Transportation Committee Restructuring.

4. TAM Committee Strategic Plan and Subcommittee Structure

Adjustments Made to the Previous Strategic Plan

- Vision, Mission, and Scope. As a result of 2010 midyear meeting, the vision, mission, scope, goals, and structure of the TAM Committee have been refined and included in the updated Strategic Plan. The vision of the Committee is a leading focal group for supporting asset management research, promoting asset management concepts, and encouraging the implementation of asset management practices. The mission of the Committee is to foster continued development and use of asset management principles and practices to meet growing needs of the nation's transportation system. The Committee will collaborate with and support related engineering, economic, policy, and leadership issues that help to make asset management a success in transportation agencies.
- Committee Goals. The Committee has established the following goals: Working in partnership with FHWA and AASHTO to provide service to TRB, fostering the continued enhancement of transportation asset management, supporting and utilizing communication strategies to facilitate asset management implementation, and ensuring a qualified, diverse, and active committee.
- Committee Structure. To assist in coordinating the Committee and Subcommittee activities in these areas, the following positions have been established: Conference planning, paper review, communications, research problem statements, and synthesis studies.

5. 2011 Midyear Meeting Plans

The 2011 Transportation Asset Management Committee midyear meeting is scheduled in Irvine, California on May 20-21, 2011 after the Fourth International Transportation Systems Performance Measurement Conference scheduled on May 18-20, 2011. Topics to be discussed will include committee reports and updates, industry updates, report on the tam and sustainability peer exchange, on-going committee activities, subcommittee assignments, and plans for 2012 annual meeting.

6. Communication Survey Results

- Sustainable Strategies for Committee's Communications. Thirty-five responses were received. The typical forms of communications include TAM Committee Website, newsletters, and emails.
- Resources Available to Support These Strategies. Items can be readily posted to the TAM Website and to be sent by email. One question raised was whether sufficient materials are available for issuing quarterly newsletters that typically cover feature articles, workshops, and outreach effort. One suggestion given was to pass over a form early enough to determine the topics to be included in the newsletters.

7. Research Problem and Synthesis Statements

a. Existing Research Statements

In total, eight statements have been proposed prior to the 2011 Annual TRB Meeting. Two statements have been submitted to the Standing Committee on Research and AASHTO Asset Management Subcommittee, four are ready for review and submittal, and two are in development as listed in the following:

- Effective management and use of transportation asset data with GIS (Submitted)
- Transportation asset management for ITS (Submitted)

- Benefit-costs analysis of retiring highway links (Ready for submittal)
- Risk assessment for ancillary structures (Ready for submittal)
- Use of cross asset optimization results and the impact on performance measures (Ready for submittal)
- Risk management and its use for setting investment targets (Ready for submittal)
- Transportation asset management and sustainability (In development)
- Asset management and climate change adaption (In development)

b. Additional Research Statements Proposed at the Committee Meeting

Two new research topics are proposed:

- Study on the gap analysis of asset management implementation
- Synthesis study on international case studies of asset management implementation

8. 2012 Annual Meeting Workshops and Session Ideas

• Workshop Suggestions. Five workshop topics are proposed:

- Assessing infrastructure health conditions
- International scan results of pavement management and performance monitoring
- How to practice asset management: principles with case studies
- Engineering and financing aspects of asset management
- Tradeoff analysis of asset management involving multiple stakeholders

• Session Suggestions. Six session topics are proposed:

- Multimodal asset management
- Best papers for ISSAM
- Risk and asset management
- Safety and asset management
- Sustainability and asset management
- Modeling level of service and investment levels

9. TRB/AASHTO Joint Activities

a. Update on Activities of FHWA Office of Asset Management

Butch Wlaschin noted that the Office maintains three technical teams: system management and monitoring, preservation, and evaluation and economic investment. The Office continues its strong commitment to provide training, tools, and deployment assistance to advance asset management. Some major activities are highlighted as follows:

- Organized Webinars and workshops on how to implement asset management
- Offered short courses via the National Highway Institute facility on asset management for local governments
- Developed a short course on operations asset management fundamentals 101
- Promoted cross boarder asset management in the United States
- Developed Model Inventory of Roadway Elements (MIRE)
- Promoted inclusion of safety management as part of asset management

b. *Update on Activities of FHWA Office of Planning*

Kenneth Petty of the FHWA Transportation Planning Capacity Building (TPCB) Program introduced the TPCB Website (<http://planning.dot.gov>), regarded as a one-stop clearinghouse for state-of-the-practice transportation planning information and resources. Some major activities are highlighted as follows:

- Helped with development of the short course on asset management fundamentals 101
- Assisted in the development of asset management tools for data integration, life-cycle cost analysis, and HERS-ST
- Organized a Webinar on asset management and sustainability
- Arranged a peer exchange on integrating asset management into the metropolitan planning process

c. *AASHTO Asset Management Subcommittee*

The AASHTO Asset Management Subcommittee coordinates actions for AASHTO with TRB and FHWA. Kirk Steudle, Chair of AASHTO Asset Management Subcommittee, briefly conveyed the Subcommittee's focus areas:

- Developing 2011-2015 strategic plan for asset management
- Making joint Efforts of AASHTO Subcommittees: The AASHTO Asset Management Subcommittee, Maintenance Subcommittee, and Environmental Subcommittee work together to promote adoption of asset management principles
- Updating asset management guide
- Promoting the adoption of AssetManagerNT/PT by AASHTOWare
- Arranging Webinar series on asset management topics.

d. *AASHTO Performance Management Standing Committee*

The AASHTO Asset Management Subcommittee mainly addresses issues related to physical assets. Whereas AASHTO Performance Management Standing Committee targets not only physical assets, but also the usage of transportation infrastructure to support livability, sustainability, and rural and urban connectivity. One major effort made by the Performance Management Committee is to develop a three-tier performance measurement system. Tier-one performance measures are ready to be implemented to help with investment resource allocation. Tier-two performance measures will be fully developed by 2012. Tier-three performance measures are also under development that will help measure the extent to which the performance targets are achieved for a certain level of investments.

e. *NCHRP Current and Upcoming Projects*

A number of asset management related projects with the following topics are underway or to be commenced:

- Incorporating performance measures into project delivery
- Development of AASHTO asset management Volume II
- Performance-based resource allocation
- Estimation of asset life expectancies
- Maintenance and preservation needs resource allocation
- Show cases of asset management implementation

f. *SHRP 2 Update*

Charles Fay provided a quick overview of SHRP 2 with the mission of “Saving Lives, Reducing Congestion, and Improving Quality of Life”. The SHRP 2 research is organized into four high-priority focal areas: reliability to make optimum use of existing roads, renewal geared towards the best way to rebuild the roads, capacity to systematically integrate environmental, economic, and community requirements into the analysis, planning, and design of new highway capacity, and safety with a emphasis on worker injuries. Approximately 90 individual projects are currently in progress among the four areas. Essentially all four focal research areas are related to asset management.

10. Joint Meeting Action Items

a. *9th National Conference on Transportation Asset Management*

The Conference will be held in San Diego, CA. Conference planning needs to be conducted to confirm program chairs, schedule conference activities, and open call for papers. Inviting AASHTO Asset Management Subcommittee to serve as co-chair and to host sessions may increase the participation of AASHTO. Some potential themes proposed at the Committee meeting include:

- Use of the asset management for public-private partnership activities
- Asset management of traditional and non-traditional assets
- Integration of maintenance and operations into asset management
- Moving asset management into performance management
- Transit asset management
- Risk assessments in asset management
- Risk-based benefit estimation
- Asset management implementation concerning methods, tools, and organizational issues

b. *Transportation Asset Management Guide- Volume 2*

- Transportation Asset Management Guide- Volume 2 (released in 2010), along with Volume 1 (published in 2003), is the product of three research statements in total costing \$750,000.
- Transportation Asset Management Guide- Volume 2 is priced at \$200 per copy. The Web-based version is available in summer 2011.
- Joint Webinars have been arranged by the AASHTO Asset Management Subcommittee and TRB TAM Committee to go through different parts of the Guide
 - The AASHTO Asset Management Subcommittee has been in collaboration with the FHWA to promote the adoption of the Guide by state and local transportation agencies and metropolitan planning organizations.

The Chair adjourned meeting at 5:30 PM.

Agenda
Transportation Asset Management Committee - ABC40
Hilton, Columbia Hall 11 and 12
Monday, January 24, 2011, 1:30 to 5:30 PM

Welcome and Introductions (15 minutes)

TRB Related Activities (1:45 to 3:30 PM)

News You Can Use (15 minutes)

- 1 *TRB Staff Report* - Tom Palmerlee
- 2 *TRB Section Report* - Barbara Martin
- 3 *TRB Committee Annual Report and Update*
 - a. Membership Status - Katie Zimmerman
 - i. Emeritus membership
 - ii. Change in number of young members allowed
 - b. 2010 Summer Meeting Results - Katie Zimmerman
 - c. 2011 Annual Meeting Report
 - i. Paper Reviews & Sessions - Jason Bittner
 - ii. Workshop Sponsorships - Katie Zimmerman
 - d. Activities - Katie Zimmerman
 - i. *TRNews* Special Edition - September/October 2010 Available at website shown at end of agenda
 - ii. TRB Special Task Force on Data for Decisions and Performance Measures
 - iii. Peer Exchange- Incorporating Targets for Reducing Greenhouse Gas Emissions into Transportation Asset Management - April 4-6, 2011, District 11 Offices of Caltrans (Coco Briseno, Chair; Jason Bittner, Facilitator)
 - iv. TRB Policy and Organization Group (POG) Initiative - Exploring the Role and Opportunities for POG Committees in Considerations for Major Restructuring of the Surface Transportation Committee

Committee Action Items (90 minutes)

4. *ABC40 Strategic Plan and Subcommittee Structure* - Katie Zimmerman (30 minutes)
 - a. What Adjustments Are Needed To:
 - i. Vision, Mission, Scope?
 - ii. Committee Goals?
 - iii. Committee Structure?
 - b. Subcommittee Activities
 - i. Chairs
 - ii. Expectations
5. *2011 Mid-Year Meeting Plans* - Katie Zimmerman (15 minutes)
 - a. Friday, May 20, 2011 @1:00 PM to 3:00 PM on Saturday, May 21, 2011.
 - b. The meeting will be held immediately after the 4th International Transportation Systems Performance Measurement Conference: *Driving Change and Being Driven by Change*: May 18-20, 2011
 - c. Arnold and Mabel Beckman Conference Center; Irvine, CA
 - d. Expected attendance?
 - e. What are outcomes should we set for the meeting?

6. *Communication Survey Results* - Brad Allen and Jason Bittner (15 minutes)
 - a. What sustainable strategies for communication will work best for our committee?
 - b. What resources are available to support these strategies?
7. *Research Problem and Synthesis Statements* (15 minutes)
 - a. What actions are needed on those identified at summer meeting?
 - i. Effective Management and Use of Transportation Asset Data With GIS- Submitted to SCOR by the AASHTO TAM Subcommittee
 - ii. Benefit-Cost Analysis of Retiring Highway Links - Paul Thompson - Ready for Review and Submittal
 - iii. Risk Assessment for Ancillary Structures - Adjo Amekudzi, Ready for Review and Submittal
 - iv. TAM for ITS - Jeff Price - Submitted to AASHTO TAM Subcommittee
 - v. Use of Cross Asset Optimization Results and the Impact on Performance Measures - Bill Robert, Ready for Review and Submittal
 - vi. TAM and Sustainability - Terry McNinch, In Development
 - vii. Risk Management and Its Use for Setting Investment Targets - Larry Redd - Ready for Review and Submittal
 - viii. Asset Management and Climate Change Adaption - Sue McNeil, In Development
 - b. What needs to be added?
 - i. Research needs
 - ii. Synthesis topics
8. *2012 Annual Meeting Workshop and Session Ideas* - Katie Zimmerman (15 minutes)
 - a. Workshop suggestions?
 - b. Targeted session suggestions or calls for papers?

Break – Including Subcommittee Sign-up (3:30 PM to 4:00 PM)

TRB / AASHTO Joint Activities (4:00 to 5:30 PM)

1. *A Review of 2010 TAM Activities* (45 minutes)
 - a. FHWA Office of Asset Management - Butch Wlaschin
 - b. FHWA Office of Environment & Planning - Ken Petty
 - c. AASHTO Subcommittee on Asset Management - Kirk Steudle
 - d. AASHTO Standing Committee on Performance Management - Kirk Steudle
 - e. NCHRP Current and Upcoming Projects - Andy Lemer
 - f. SHRP 2 Update - Charles Fay

Joint Meeting Action Items (45 minutes)

2. *9th International Conference on Asset Management* - Francine Shaw-Whitson (15 minutes)
 - a. Target March to May 2012
 - b. Interest Expressed by Caltrans to Host
 - c. Pooled Fund/FHWA Support
 - d. What themes should be considered at the conference?
 - e. What steps will help strengthen the involvement of the AASHTO Subcommittee on Asset Management?

3. *Transportation Asset Management Guide - Volume 2* (15 minutes)
 - a. AASHTO Publication Plans - Matt Hardy
 - b. What activities can the TRB Committee do to support the implementation of the Guide?

4. *Other Joint Activities* (15 minutes)
 - a. Are there other activities that we should be working on in partnership with AASHTO and FHWA?

Adjourn

Website links to information included in the agenda

TRNews Special Edition:

http://www.trb.org/Publications/Blurbs/TR_News_SeptemberOctober_2010_Asset_Management_for_164244.aspx

Fourth International Transportation Systems Performance Measurement Conference:

http://www.trb.org/Main/Blurbs/Fourth_International_Transportation_Systems_Perfor_163448.aspx

TAM Guide, Volume 2 Draft Final Report (NCHRP 08-69)

http://onlinepubs.trb.org/onlinepubs/nchrp/docs/NCHRP08-69_TAM_GUIDE_VOLUMEII.pdf