

## **POLICY AND ORGANIZATION GROUP**

### **Committee Triennial Strategic Plan (TSP)**

**Committee Name and Number:** ABC40, Transportation Asset Management

**Committee Chair:** Tim Henkel, Minnesota DOT

**TSP Three-Year Period:** April 2018 to March 2021

**Date Prepared:** April 2018

#### **Committee Future Outlook Statement:**

##### Current Committee Scope

The Committee is actively engaged in activities to advance the state of the art and state of the practice in transportation asset management. Since transportation asset management is, by its nature, a collaborative process, ABC40 will work across all modes of transportation in partnership with organizations including the following, and others to help accomplish our mission.

- Other TRB Committees.
- The American Association of State Highway and Transportation Officials (AASHTO).
- The American Public Transportation Association (APTA).
- The Association of Metropolitan Planning Organizations (AMPO).
- The Federal Highway Administration (FHWA).
- The FHWA's Transportation Asset Management Expert Task Group (TAM ETG).
- The Federal Transit Administration (FTA).
- State and local transportation agencies.
- Metropolitan Planning Organizations.

While ABC40 will primarily focus on research and technology transfer related to the **implementation** and use of asset management concepts, **data** to support asset management, and **tools** to conduct asset management analyses, we will collaborate with and support the related engineering, economic, policy, organizational development, and leadership activities that help to make asset management a success in transportation agencies. The primary focus of the committee will center on highway and transit modes. However, we remain open to collaborating with partners in all transportation modes for both passengers and freight.

The Committee won a Blue Ribbon for its research efforts in 2015. A key to ABC40's success in advancing research efforts has been the partnership that has been established with the American Association of State Highway and Transportation Official's (AASHTO) Subcommittee on Asset Management. This partnership, which has been in place since ABC40 first became a standing committee, includes the following:

- Participation in monthly phone calls with the leadership of the AASHTO Subcommittee, Federal Highway Administration (FHWA), and ABC40. During the calls, the AASHTO representative identifies opportunities for research needs statements to be submitted in support of various NCHRP programs. As these opportunities are identified, the ABC40 Chair either submits a research problem statement already developed by the Committee or reaches out to Committee leadership for help in developing a problem statement on a topic suggested by the AASHTO Subcommittee or FHWA.
- Opportunities for the Chair of ABC40 to discuss research needs at each AASHTO Subcommittee meeting so that the feedback from Subcommittee members can be incorporated into the research problem statements prepared by the ABC40 Committee members. At one of the AASHTO Subcommittee meetings each year, an ABC40 representative presents the research needs statements that have been developed by the TRB Committee and asks the AASHTO Subcommittee members to prioritize the topics. The top 3 to 5 research topics are then assigned to one of the ABC40 subcommittees to finalize, forming a team comprised of members of both ABC40 and the AASHTO Subcommittee on Asset Management.
- Joint meetings with the AASHTO Subcommittee each year at the TRB Annual Meetings to discuss common research needs.

#### Factors and Influences That Will Shape the Committee's Activities

Internationally, transportation asset management (TAM) has proven to be an effective method of managing assets effectively as transportation funding decreases and the demand for service and mobility continues to increase. These agencies consider the long-term implications of investment options across modes, and hold decision makers accountable for making sustainable investment choices.

Over the last 15 years, interest in transportation asset management has grown in the United States, as agencies sought strategies to determine how to use limited funding most effectively. As a result of their focus on asset management, agency policies and investment decisions are:

- More aligned with organizational performance goals.
- Driven by data.
- Monitored and adjusted based on results.
- Communicated more effectively with decision makers and other stakeholders.
- More transparent.

By the end of calendar year 2018, all State Departments of Transportation (DOTs) and public transit providers will submit initial transportation asset management plans. DOTs will have until June, 2019 to submit complete plans for certification and consistency review by FHWA and FTA, respectively. While requirements for the plans vary between highway and transit agencies, the

purpose for both is to demonstrate how asset management principles are incorporated in planning and programming activities to effective and efficient use of federal aid, to achieve the best practical asset conditions over the long term.

In addition to the federal requirements, agencies are realizing that maintaining asset conditions is critical to achieving their missions. New data collection techniques and analysis tools are available every year, applying pressure on agencies to invest in new technology and develop data-driven decision-making processes. Agencies are also looking to expand the application of asset management beyond core assets. This is an area in which transit agencies have made more consistent progress than highway agencies, largely because the federal regulations for transportation asset management plans require inclusion of multiple asset classes. To date, highway agencies have largely focused on pavements and bridges, but that is beginning to change. In 2016, FHWA began a project to develop guidance for the inclusion of highway assets other than pavements and bridges in DOT transportation asset management programs. In addition to federal statutes and regulations, other standards for asset management have launched ISO 55000, a standard for the management of physical assets. This has provided a standard means for agencies to evaluate and communicate the extent and maturity of their asset management practices.

Through the committee's efforts to support conferences, members have been involved in annual polling of transportation professionals to assess the topics of greatest interest and concern related to transportation asset management. The survey includes several tracking questions, which do not change from year to year, allowing the committee to assess and adapt to the changing needs of transportation infrastructure owners. The information from this survey is used to drive agendas for national conferences, calls for papers, research needs statements, and other committee products. The results of this survey can be found at the link below, which provides an interactive means of exploring the results.

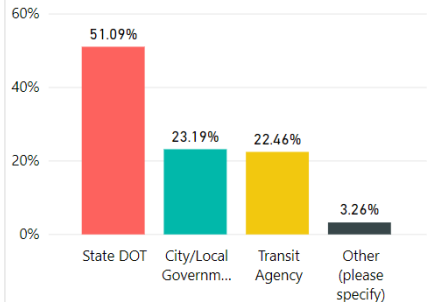
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# 2017 TAM Survey Results

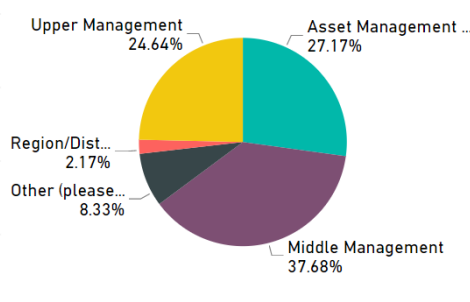
Survey results collected in July, 2017  
276 Responses in Total

Includes all State DOTs plus 43 Transit agencies and 44 MPOs & LPAs

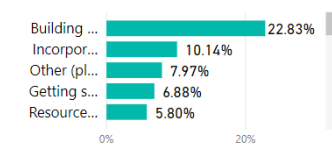
Responses for Each Agency



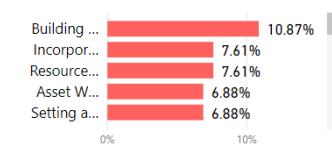
Position in Agency/DOT



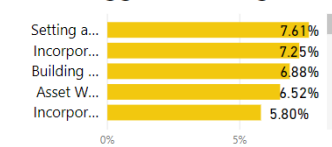
First Biggest challenge



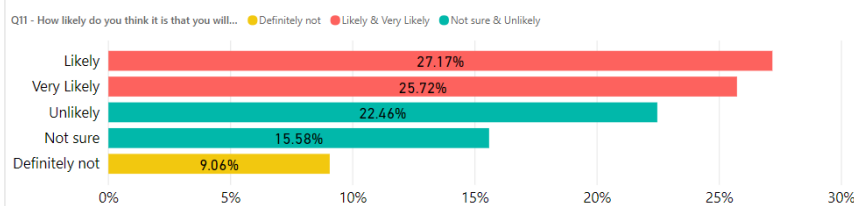
Second Biggest challenge



Third Biggest challenge



Likelihood to attend 2018 TAM conference



Asset management implementation takes root within agencies; other initiatives have begun to address the knowledge and technology gaps that exist. For instance, the FHWA extended its TAM ETG to identify outreach activities and other initiatives that will increase the awareness and use of asset management in transportation agencies. In addition, FHWA developed guidance documents to support State DOTs in developing their TAMPs. FTA has held several national workshops to provide support to transit agencies in their similar efforts. The National Cooperative Highway Research Program (NCHRP) has supported the development of guidance and tools to support TAM; for example, recently initiating a project to update the AASHTO Guide to Transportation Asset Management: A Focus on Implementation. Other industry associations are beginning to increase their involvement in asset management. In 2017, AMPO held two national workshops, and two state workshops on the role of MPOs in transportation asset management. These lead to a workshop on the same subject during the 2018 TRB Annual Meeting.

The Transportation Asset Management Committee has been actively engaged in supporting these efforts through the development of research problem statements; participation on research panels; and sponsorship of peer exchanges, conferences, and webinars for practitioners. To accomplish its goals, Committee ABC40 collaborates with a number of other TRB committees in its efforts, including committees representing the management of different types of assets (e.g., pavement management, bridge management, and maintenance management), diverse types of data and data collection strategies, a range of transportation modes (e.g., transit, rail, and airports), different investment strategies (e.g., asset preservation,

safety, and mobility enhancements) and other agency demands (e.g., organizational management, performance measurement, economics, and finance).

### Committee Future Outlook

The Transportation Asset Management Committee aims to encourage the use of strategic and tactical decisions that are data-driven, that consider multiple modes, incorporate risk, and evaluate the long-term impacts of each option, by fostering research that will expand and synthesize pertinent knowledge, and to improve information exchange and dissemination about the use of asset management concepts.

The committee has three major goals for the future:

- 1. Support the practice, development, advancement, training, and use of asset management principles, practices, tools, and techniques through research.**
- 2. Quantify and communicate the benefits of asset management principles and practices.**
- 3. Maintain and enhance robust, and diverse volunteer participation.**

The committee plan below contains specific actions to achieve these goals. This plan recognizes, as demonstrated in the industry survey results above, that the committee's role in supporting TAM is maturing from a focus on research and development, to a focus on implementation and institutional knowledge.

### **Committee Plan:**

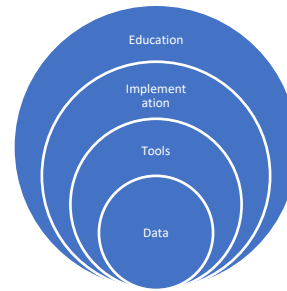
#### Emerging issues inside and outside the committee scope

There are many emerging issues that are important to the Transportation Asset Management Committee.

- People - Building organizational structures, and cultures that support the use of performance based management for investment decision making.
- Process - The development of processes that support collaborative decision making that considers engineering, financial, risk, economic, environmental, and other factors in long-term investment decisions transportation infrastructure.
- Systems - The availability of data, tools and techniques for agency investment decisions that support long-term financial plans that consider risk and that evaluate tradeoffs between investments in: multiple assets, different modes of travel, and alternate investment strategies.

Because of the cross-cutting and collaborative nature of these issues, the Transportation Asset Management Committee has established four subcommittees, each of which focuses on one of the following aspects of asset management:

- Data.
- Tools.
- Implementation.
- Education.



## Projects and Activities

The list below will be used in the coming years to accomplish the five major goals identified by the committee.

Activity #1	<b><i>Collaborate with USDOT (e.g., FHWA and FTA) to promote research, training and best practices</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices.
Description	The Committee will provide input and assistance to USDOT, and its TAM ETG, in defining the future of asset management and in addressing needs at the strategic and tactical levels, as well as establishing a vision for both agency- and national-level roles. The committee will coordinate with and assist USDOT in the dissemination of best practices reviews, peer exchange meetings, and other activities on the use of transportation asset management concepts.
Target	Continue Membership on TAM ETG.

Activity	<b><i>Promote and Populate the TAM Research Roadmap</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices.
Description	The Committee will collaborate with members, friends, and other groups to populate the TAM Research Roadmap with research needs identified through other committee activities. During conferences, workshops, peer exchanges, and other events, members will identify research needs and enter them into the roadmap. Members will also promote the roadmap to other individuals and groups so they may enter additional research needs.
Target	Annually update the research roadmap.

Activity	<b><i>Develop and Prioritize Research Problem Statements</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices.
Description	Building on its Blue-Ribbon Award from TRB, the committee will continue to place a high priority on shaping and defining the research agenda by developing well-conceived research problem statements, in collaboration with other TRB Committees and other organizations. These research problem statements will be shared with the AASHTO Subcommittee on Asset Management and placed in the TRB Research Needs Statements database so they are available to the broad community. In collaboration with the AASHTO Subcommittee on Asset Management, these research needs statements will be channeled to various sponsors (e.g., NCHRP, TCRP, FHWA) for potential funding streams to become a reality, thus contributing further to enhancing the vitality and growth of the field. In addition to the development of research problem statements, the committee will develop and advance a series of synthesis research topics to collect and organize relevant research regarding the implementation and use of asset management for critical stakeholders.
Target	Each Subcommittee will develop at least one research need statement each year.

Activity	<b><i>Promote the funding of research to develop new tools and technology to support transportation asset management concepts</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices.
Description	The committee will help FHWA and AASHTO identify organizational, institutional, and procedural impediments to the use of transportation asset management for decision making and develop recommendations for future action. The information will be used to support the development of enhanced analysis tools that incorporate risk, consider impacts across transportation modes, and evaluate the long-term impact of decisions.
Target	Have at least one funded research initiative in the area of asset management each year.

Activity	<b><i>Formalize and Document the Process for Developing and Promoting Research Needs</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices.
Description	<p>The committee recognizes that, as its focus broadens to include a greater array of assets and modes of transportation, there is a need to include a larger group of members and friends in the process of developing research needs statements. Similarly, there is a need to strengthen relationships with organizations such as APTA, which serve critical roles in the research selection and funding process. In response the committee will develop and document a process for:</p> <ul style="list-style-type: none"> <li>• Engaging with friends of ABC40, as well as members and friends of other committees to develop needs statements.</li> <li>• Developing research needs statements on a regular cycle, well ahead of formal requests or deadlines.</li> <li>• Annually reviewing research needs statements on the TAM-portal to ensure that they are relevant to current industry needs.</li> </ul>
Target	Develop and document a procedure which can be shared via the committee website.

Activity	<b><i>Deliver and support the implementation of completed research</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices
Description	The committee recognizes the role of its members in outreach and education of peers. Members will actively engage in opportunities to share recently-developed research results and products with other practitioners. This will be accomplished through formal means, such as participating in conferences and on research panels, as well as informal means through interactions with peers.
Target	Committee members will serve as members of conference and peer-exchange planning committees, and advocate in support of research problem statements developed on the committee's behalf.



Activity	<b><i>Develop an Annual Action Plan</i></b>
Goal Supported	Support the development, advancement, and use of asset management principles and practices.
Description	To ensure the delivery of these activities and achievement of its goals, ABC40 will develop and follow an Annual Action Plan (AAP) highlighting the specific actions that will be taken each year. AAPs will be prepared in advance of the TRB Annual Meeting, and approved at that meeting. AAPs will be effective beginning on April 1 of the year in which they are adopted, and will direct committee activities through March 31 of the following year.
Targets	Develop and approve the Annual Action Plan.

Activity	<b><i>Disseminate information on Transportation Asset Management</i></b>
Goal Supported	Communicate the benefits of asset management principles and practices.
Description	The committee will promote the use of the TAM Portal ( <a href="http://tamportal.com">http://tamportal.com</a> ) to provide connections to available TAM resources. The Committee website ( <a href="https://sites.google.com/site/trbcommitteeabc40">https://sites.google.com/site/trbcommitteeabc40</a> ) will be used to share information specific to the committee.
Target	The committee website will be reviewed and updated quarterly.
Activity	<b><i>Organize the National Conference on Transportation Asset Management</i></b>
Goal Supported	Communicate the benefits of asset management principles and practices.
Description	The committee will lead or collaborate in the organization of national conferences in 2018 and 2020 that focus on emerging concepts, new research, and lessons learned from successful and unsuccessful implementations of asset management concepts.
Target	The national conferences will be delivered in 2018 and 2020.

Activity	<b><i>Support opportunities for peer-to-peer communications</i></b>
Goal Supported	Communicate the benefits of asset management principles and practices.
Description	<p>Committee members will participate in discussions and special organizational meetings with other TRB committees/task forces and national/international associations to conduct specialty conferences, workshops, and seminars on various topics every 2 to 3 years. To facilitate these activities, the committee will seek opportunities to collaborate with FHWA, FTA, AASHTO, AMTA, AMPO, and other agencies and organizations devoted to the theory, practical applications and new concepts in transportation asset management.</p> <ul style="list-style-type: none"> <li>o Conferences -The Committee will pursue opportunities to support state, national and international conferences in areas that are related to asset management.</li> <li>o Peer Exchanges and Workshops The committee will sponsor or cosponsor peer exchanges and workshops that enable participants to overcome issues that hinder the implementation of asset management at the agency level. Committee members will assist in organizing these events and will work with the FHWA and AASHTO in promoting the results. Whenever possible, the committee will partner with other TRB committees, the AASHTO Subcommittee on Asset Management, and other organizations to host these events in conjunction with other meetings and conferences to expand the sphere of influence.</li> <li>o Webinars – The committee will support existing webinar series such as those in place though TRB, AASHTO, FHWA, and FTA.</li> </ul>
Target	<p>Committee members will contribute to at least one conference each year.</p> <p>Committee members will contribute to at least one workshop or peer exchange each year.</p> <p>Committee members will contribute to at least four webinars per year.</p>

Activity	<b><i>Reach out to organizations and groups beyond TRB</i></b>
Goal Supported	Communicate the benefits of asset management principles and practices.
Description	Committee members will strive to develop new and stronger relationships with professional associations across modes, the global community, and multidisciplinary groups of researchers and to involve these individuals in activities sponsored by the committee. As a result, the committee's outreach will extend to transportation agencies responsible for the management of highways, bridges, transit assets, tollways, and other modes of transportation, including state and local transportation agencies, toll authorities, Metropolitan Planning Organizations (MPOs), transit agencies, and airports.
Targets	Continued participation of AASHTO on the committee. Continued participation of AMPO on the committee. Have at least one representative of APTA participate in committee activities, including monthly leadership calls.

Activity	<b><i>Collaborate with other TRB committees</i></b>
Supported Goal	Maintain and enhance robust, and diverse volunteer participation.
Description	The Committee collaborates with many other committees across the TRB committee structure in addressing cross-cutting issues. A list of committees with which the Transportation Asset Management Committee has recently collaborated with is provided in Appendix A. The committee will seek sponsorship of joint sessions and research statements to identify critical issues and to advance transportation asset management concepts, sponsor or cosponsor sessions and workshops at annual meetings and mid-year meetings, and organize workshops and sessions on the implementation and use of asset management in collaboration with other TRB committees for annual and mid-year meetings. These liaisons will cross modes, will involve a diverse number of TRB sections, and will include TRB special task forces, other high-priority focus groups, and the critical issue working groups organized by the POG in 2012.
Target	The committee will engage in at least three collaborative activities each year at the TRB Annual Meeting.

Activity	<b><i>Develop an annual action plan.</i></b>
Goal Supported	Maintain and enhance robust, and diverse volunteer participation.
Description	The Committee will develop an annual plan that includes topics for Research Problem Statements, proposed webinars, and planned sessions and workshops for the TRB Annual Meetings.
Target	The annual action plan will be adopted by April 1 of each year.

Activity	<b><i>Advance the understanding of the relationship between asset management, performance management, risk management, and knowledge management.</i></b>
Goal Supported	Maintain and enhance robust, and diverse volunteer participation.
Description	The Committee will lead a discussion across related TRB committees on the interconnectedness of performance management, knowledge management, risk management, and asset management, to: <ul style="list-style-type: none"> <li>o Better define the scope and roles of each committee.</li> <li>o Advance collaboration between the committees.</li> <li>o Improve support to practitioners.</li> <li>o Help volunteers be more productive.</li> </ul>
Target	Assign committee liaisons for TRB committees related to performance, risk, and knowledge management.

Activity #14	<b><i>Monthly TAM Leadership phone calls</i></b>
Goal Supported	Maintain and enhance robust, and diverse volunteer participation.
Description	To help advance the committee’s research and outreach activities, Committee members will participate in monthly coordination meetings with FHWA and AASHTO leadership to advance transportation asset management efforts.
Target	Each Committee member will participate in at least 10 calls per year.

Communication

Communication is an important aspect of the committee’s outreach activities and is a keystone in successfully achieving the goals, in particular, communicating the benefits of asset management principles and practices. Communication is vital to the implementation of the activities under each of the goals and the progress on these activities are communicated to the friends of the committee and transportation asset management audience as listed below:

- Disseminate information on Transportation Asset Management.
  - o The committee will promote the use of the TAM Portal (<http://tamportal.com>) to provide connections to available TAM resources.
  - o The Committee website (<https://sites.google.com/site/trbcommitteeabc40>) will be used to share information specific to the committee.
- Monthly TAM Leadership phone calls - Committee members will participate in monthly coordination meetings (teleconference meetings broadcasted via webinar as well as needed) with FHWA and AASHTO leadership to advance transportation asset management efforts.
- A committee member will participate in the “New Attendee Orientation” at the TRB Annual Meeting to offer information about the committee and solicit interest in committee activities among new TRB attendees.
- Develop an Annual Action Plan highlighting the specific actions that will be taken each year.

## Membership

The committee benefits from the active participation of its members and friends and the different perspectives that are represented. To ensure the diversity of the committee, the following steps will be taken:

- Regularly update Committee and Subcommittee membership to maintain balanced representation of both established and emerging applications of transportation asset management, across modes, different types of organizations, and different points of view.
- Ensure that Committee membership reflects a balanced composition with regard to geography, gender, race, ethnicity, and organizational affiliation.
- Support the regular, on-going involvement of young TRB members in committee activities.

## Appendix A – General Committee Information and Statistics.

### General Committee Information and Statistics

#### Committee Website

<https://sites.google.com/site/trbcommitteeabc40>

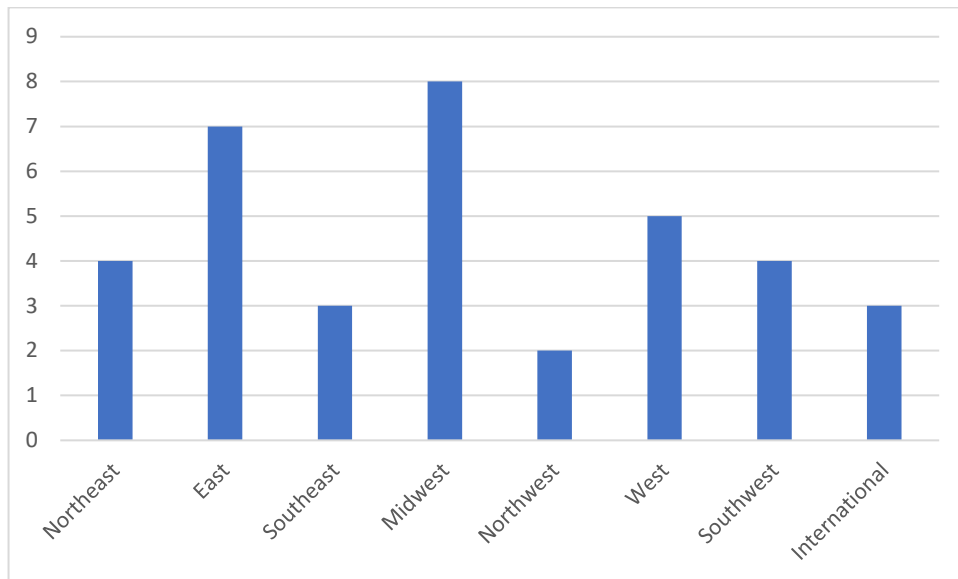
#### Committee Membership

Total Members	36
Regular Member Slots	25
International Member Slots	3
State DOT Slots	3
Young Member Slots	3
Emeritus Members	2

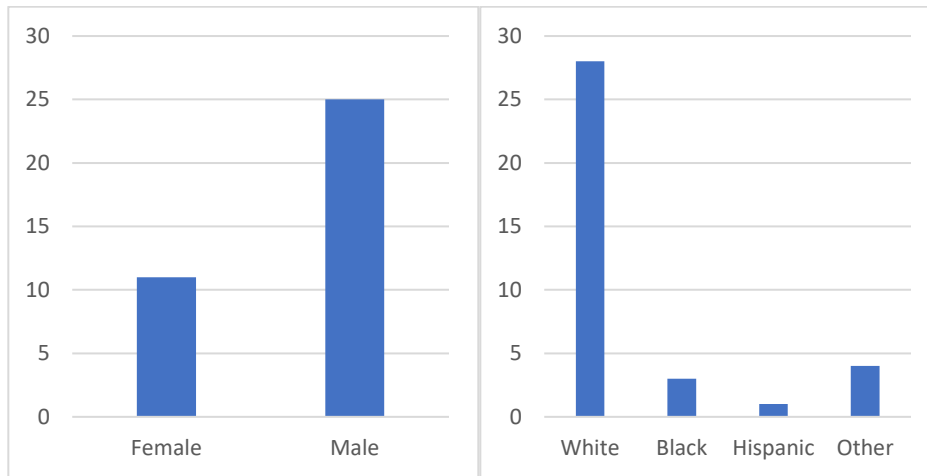
#### Committee Membership

Total Number of Members: 7 members, which includes 4 young members, 2 Emeritus, and 3 international members

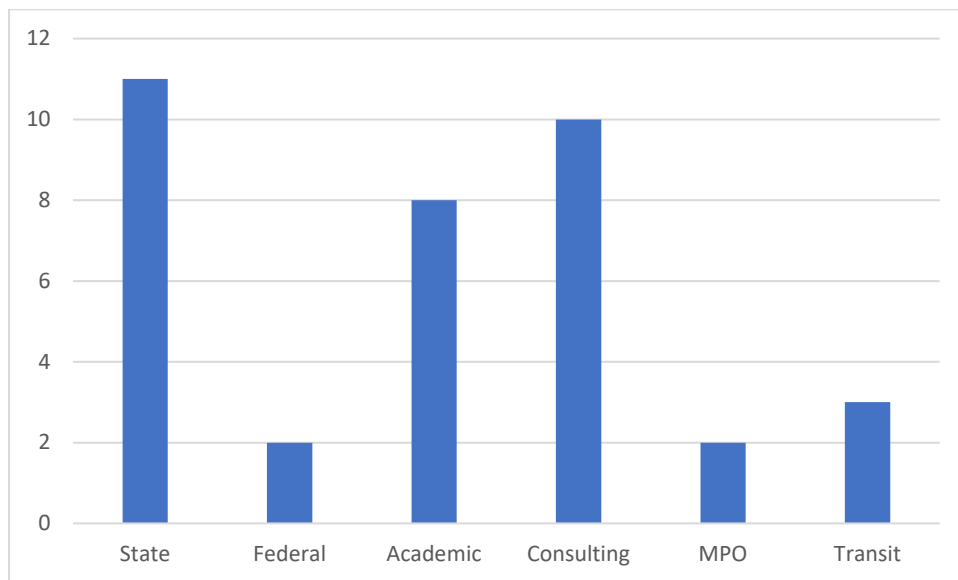
#### Geographic Distribution of Membership



### Gender and Race Distribution of Membership



### Professional Affiliation Distribution of Membership



### Number of Friends

The Committee maintains the email addresses of over 300 friends who regularly receive committee mailings and participate in committee activities.

### Subcommittees and Their Chairs

The committee includes four subcommittees, each with a specific focus. Subcommittees serve a role of organizing committee resources to carry out the activities of this TSP and the AAP. At a minimum, each Subcommittee will strive to achieve the following each year:

- Recommend one session/workshop proposal for the TRB Annual Meeting.

- Identify and conduct a minimum of one web conference during a calendar year.
  - Identify TRB co-sponsors for at least one of the outreach activities conducted by the Subcommittee.
  - Identify and prepare at least one research problem statement.
1. **Data:** Recognizing that asset management relies on quality data to support decision making, this Subcommittee deals with issues related to data quality, governance, integration, and access. The Chair of this Subcommittee is: David Schrank of Texas A&M University. David Schrank serves on the TRB Statewide Transportation Data and Information Committee (ABJ20), which preserves that important link between the two Committees.
  2. **Tools:** This Subcommittee promotes the development and use of analysis tools that support asset management decisions in transportation agencies. Transportation agencies have many investment decisions; therefore, they rely on the ability to analyze the available options in terms of resource requirements, performance, and other attributes. The Chair of this Subcommittee is: Bill Robert, Spy Pond Partners.
  3. **Implementation:** This Subcommittee helps facilitate the availability of information on asset management to increase the number of agencies who are successfully using asset management principles. While the availability of the AASHTO *Transportation Asset Management Guide – A Focus on Implementation* provides much of the technical information needed to support the implementation and use of asset management concepts, there are still many technology transfer activities required to help put these concepts into practice in transportation agencies. The Chair of this Subcommittee is: Brad Allen, New York State DOT.
  4. **Education:** The Education subcommittee is focused on connecting academia with practitioners in private industry and transportation agencies. The subcommittee's focus is in translating the needs of infrastructure managers into educational programs that develop candidates capable of filling needed roles. The subcommittee also serves as a means for educators in the area of infrastructure asset management to connect with each other, and students to share research findings and build stronger curriculums. The subcommittee has been involved in the development of a Boot Camp and the Annual Inter-University Symposium on Infrastructure Management (AISIM) which promote research and education in Asset Management. The Co-chairs of this Subcommittee are: Gerardo Flintsch of Virginia Polytechnic Institute, and Susan Tighe, University of The Co-chairs of this Subcommittee are: Gerardo Flintsch of Virginia Polytechnic Institute, and Sue Tighe, University of Waterloo.



### Other Committee Relationships

ABC40 maintains close formal and informal relationships with many different committees. They include, but are not limited to:

- ABC10: Strategic Management
- ABC20: Management and Productivity
- ABC30: Performance Measurement
- ABE20: Transportation Economics
- ABE30: Transportation Issues in Major U.S. Cities
- ABJ20: Statewide Transportation Data and Information Systems
- ABJ50: Information Systems and Technology
- ABJ60: Geographic Information Science and Applications
- ABJ95: Visualization in Transportation
- ADA10: Statewide Multimodal Transportation Planning
- ADA20: Metropolitan Policy, Planning, and Processes
- ADA30: Transportation Planning for Small and Medium-Sized Communities
- ADA50: Transportation Programming, Planning, and Systems Evaluation
- ADD10: Transportation and Economic Development
- ADD20: Social and Economic Factors of Transportation
- ADD40: Transportation and Sustainability
- AFB30: Low-Volume Roads
- AFD10: Pavement Management Systems
- AFD20: Pavement Monitoring and Evaluation
- AFS70: Geosynthetics
- AHD10: Maintenance and Operations Management
- AHD18: Pavement Preservation
- AHD35: Bridge Management
- AP010: Transit Management and Performance
- AP050: Bus Transit Systems
- AV040: Aviation Economics and Forecasting
- AV050: Airport Terminals and Ground Access

### Other Task Force Relationships

ABC40 maintains close formal and informal relationships with the following special task force established by TRB:

- A0030T: Special Task Force on Data for Decisions and Performance Measures
- AB020T: Value of Transportation Infrastructure Task Force

Number of Papers Reviewed, Presented, and Published

	2012	2013	2014	2015	2016	2017
Papers Reviewed	26	13	17	17	20	21
Papers Presented in Session or Poster	8	7	6	6	10	11
Recommended for Publication	6	2	2	3	4	3

**Annual and Summer Meeting Statistics**

Number of Meeting Attendees

	<u>2015 Annual Meeting</u>	<u>2015 Mid-Year Meeting</u>	<u>2016 Annual Meeting</u>	<u>2016 Mid-year meeting</u>	<u>2017 Annual Meeting</u>	<u>2017 Mid-year meeting</u>
<u>Members</u>	<u>20*</u>	<u>15*</u>	<u>20</u>	<u>15*</u>	<u>22</u>	<u>15*</u>
<u>Friends</u>	<u>100*</u>	<u>35*</u>	<u>127</u>	<u>40*</u>	<u>76</u>	<u>30*</u>
<b><u>Totals</u></b>	<b><u>120*</u></b>	<b><u>50*</u></b>	<b><u>147</u></b>		<b><u>98</u></b>	<b><u>45*</u></b>

\* Estimated

Number of Annual Meeting Events

<b>Type of Activity</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Paper/Conference Sessions	1	1	0	2	2	2
Poster Sessions	1	2	2			2
Workshops	1	2	1		0	1
Meetings & Gatherings	1	1	1	2	3	3
Co-Sponsored Sessions & Meetings	1	4	5			1

**Support of Research**

Recently Funded Research Needs Contributed by ABC40

*Completed*

- NCHRP 08-36, Task 134: Transportation Asset Management Research Roadmap.
- NCHRP 08-87, Successful Practices in GIS-Based Asset Management.
- NCHRP 08-90, TAM Gap Analysis Tool.

- NCHRP 08-93, *Managing Risk Across the Enterprise: A Guidebook for State Departments of Transportation*.
- NCHRP 20-100, *Return on Investment in Transportation Asset Management Systems and Practices*.
- NCHRP 25-25/Task 94, *Integrating Climate Change and Extreme Weather into Transportation Asset Management Plans*.
- *NCHRP 08-91, Cross-Asset Resource Allocation and the Impact on System Performance*.

#### *Active*

- NCHRP 08-36, Task 116, *Development of Transportation Asset Management Plan Templates*.
- NCHRP 08-36, Task 125, *TAM Knowledge Portal*.
- NCHRP 08-103, *Implementing NCHRP Report 806, Guide to Cross-Asset Resource Allocation and the Impact on Transportation System Performance*
- NCHRP 08-109, *Updating the AASHTO Transportation Asset Management Guide – A Focus on Implementation (Phase 1)*.
- NCHRP 19-12, *Guide for Financial Planning and Management in Support of Transportation Asset Management*
- NCHRP 24-46, *Development of an Implementation Manual for Geotechnical Asset Management for Transportation Agencies*.

#### *Under Development (RFP)*

- NCHRP 08-113, *Integrating Effective Transportation Performance, Risk, and Asset Management Practices*.
- NCHRP 20-44(02), *Implementation of the AASHTO Guide for Enterprise Risk Management*.

### **Sponsored and Co-Sponsored Outreach Activities**

#### National Conferences

- 11<sup>th</sup> National Conference on Transportation Asset Management – July, 2016 in Minneapolis, Minnesota.
- Peer Exchange on Organization, Preparation, and Investment – July, 2016 in Minneapolis, MN.

#### Peer Exchanges and Workshops

- Workshops on the Role of MPOs in Transportation Asset Management Implementation.
  - AMPO Technical Symposium – May, 2017 in St. Louis, MO.
  - Texas Association of MPOs (TEMPO) Executive Meeting – July 2017 in Harlingen, TX.
  - AMPO National Conference – October, 2017 in Savannah, GA.

- TAMETG Meetings
  - Fort Worth, TX – March, 2016.
  - St. Paul, MN – November 2015.
  - Washington, DC - May 2015.
- Fine-tuning Your Transportation Asset Management Program Workshop – May, 2015 in Denver, CO.

Webinars (<http://www.tam-portal.com/tam-webinars/>)

- Life Cycle Planning in Transportation Asset Management – December 2016.
- Methods in Estimating the Value of Transportation Assets – October, 2016.
- Tradeoffs and Cross Asset Resource Allocation – October, 2016.
- TAM Data Governance and Implementation – August, 2016.
- TAM Organizational Frameworks – June, 2016.
- TAM Tools and Resources – April, 2016.
- Management of Geotechnical Assets – March, 2016
- Data Acquisition, Collection and Methods – February, 2016
- Integrating TAM Into Agency Processes – January, 2016
- Coordinating Across Asset Plans – December, 2015
- Optimization and Cross Asset Allocation – November, 2015
- Transportation Asset Management and Risk Management – October, 2015
- Putting Transportation Asset Management Plans into Practice in a State Department of Transportation – September, 2015
- Network Life Cycle Analysis (LCA) Part 2: Case Study Examples – September 2015
- Transportation Asset Management Financial Plans: Part 2 – August, 2015
- Transportation Asset Management 101 for Metropolitan Planning Organizations – May 2015
- Lessons Learned from Developing a Transportation Asset Management Plan - April 2015

**Publications**

- 11<sup>th</sup> National Conference on Transportation Asset Management, September 2016.
- TAM Research Roadmap added to TAM Portal, December 2016.
- NCHRP Report 800, Successful Practices in GIS-Based Asset Management.
- AASHTO Guide for Enterprise Risk Management.
- NCHRP 25-25/Task 94 Final Report: Integrating Extreme Weather into Transportation Asset Management Plans.
- NCHRP Report 806, Guide to Cross-Asset Resource Allocation and the Impact on Transportation System Performance.