

**2016-2018
Triennial Strategic Plan**

for the

Transportation Research Board's

**Statewide Multimodal Transportation
Planning**

(ADA10)

Chair

Jerri Bohard

Subcommittee on Strategic Plan Development

Jerri Bohard, Trish Hendren, Paul Hershkowitz, John Kaliski, John Orr (lead), Scott
Phinney, Montie Wade

I. Committee Future Outlook Statement:

MISSION

To advance the state of the practice in statewide multimodal transportation planning to address emerging trends and uncertainties, inform policy development and investment decision-making, support effective system management, and develop more effective transportation planning organizations and partnerships.

VISION

The next several years could represent a period of unprecedented change for the United States transportation system. Key drivers of changes, as documented in the National Cooperative Highway Research Program (NCHRP) Report 750 Series: Informing Transportation's Future and other recent research, include the following:

- Demographics, including the impacts of a larger, older, and more diverse population;
- Economics, including the impacts of a changing industry mix and shifting global trade patterns;
- Environment, including the impacts of climate change and extreme weather events on transportation infrastructure.
- Energy and fuels, including the impacts of alternative fuels, increased energy efficiency, and increased competition for energy resources; and
- Technology, including the impacts of automated and connected vehicles, shared vehicles, and other emerging technologies and systems.

State departments of transportation and other entities involved in statewide multimodal transportation planning are increasingly focusing on planning for an uncertain future marked by these trends and potential disruptors.

At the same time, state transportation agencies face multiple challenges including:

- Changing missions from building and maintaining roadways to operating and managing a multimodal transportation system;
- A greater need for communication and collaboration with partners and customers, often with shared missions;
- Greater expectations from elected officials and the public for accountability and transparency in decision making;
- Changing skill requirements for transportation planners that emphasize consensus building, communication, creativity, data collection and analysis, and technological savvy – coupled with generation shifts within the state transportation agency workforce; and
- Constrained financial resources at all levels.

The Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act place greater emphasis on performance management, asset management, freight, and multimodal options. The FAST Act also introduces additional statewide planning factors including travel and tourism and resiliency and reliability. These laws and rules, coupled with state mandates and customer needs, are changing expectations about statewide planning process, the role and content of statewide multimodal transportation plans, and the relationship between statewide long-range transportation plans and a wide range of statewide, regional, and local plans covering multiple transportation modes and disciplines such as safety, freight, operations, and asset management.

SCOPE

The Committee on Statewide Multimodal Transportation Planning is dedicated to advancing the state of the practice in statewide transportation planning. The Committee considers the full spectrum of statewide transportation planning activities including policy development, plan development and implementation, and performance management, along with supporting planning processes, analytical tools, and public, stakeholder, and interagency involvement and outreach. Key emphasis areas include:

- Identifying, sharing, and disseminating best practices and innovative approaches to developing and implementing statewide transportation plans, including implementation of federal requirements under MAP-21 and FAST;
- Preparing for the future by conducting research on and understanding the implications of changing trends and future disruptions and uncertainties on transportation planning; bringing innovation to the practice of planning and
- Developing and equipping 21st century transportation planners and expanding and strengthening the transportation planning professional community through capacity building, networking, and related activities.

The Committee membership reflects the diverse nature of statewide transportation planning, including participation from state departments of transportation, metropolitan planning organizations (MPO), federal agencies, academic institutions, and the private sector. The committee collaborates with other TRB committees and external organizations including the American Association of State Highway and Transportation Officials (AASHTO) Standing Committee on Planning (SCOP), to promote a multimodal, multijurisdictional, and multidisciplinary approach to planning.

II. Committee Plan

GOALS

To carry out its mission, the Committee has set the following five goals:

- 1) **Maintain and enhance robust committee participation**
- 2) **Promote practitioner information exchange**
- 3) **Support multimodal transportation planning research**
- 4) **Facilitate expanded communication of committee activities**
- 5) **Move research into practice**

This Strategic Plan covers the period 2017-2020. It is designed as a living document that will guide committee activities during that period and can be updated as needed. The committee uses the Strategic Plan goals as the framework for all meetings, to keep the focus on these goals and to track progress toward implementing the strategies and actions. The committee will conduct a comprehensive review and update of the Strategic Plan in 2020 to establish goals, strategies, and actions for the following three years. Through the ongoing emphasis on the Strategic Plan goals and the periodic updates, the committee anticipates that some of the longer-term needs identified in our future outlook statement - particularly the ongoing emphasis on research, innovation, and capacity building -- will be accomplished.

COMMITTEE STRATEGIES AND ACTION PLAN

Goal 1: Maintain and enhance robust committee participation. Promote greater participation in committee activities from a diverse group of members and friends, representing all modes of transportation and a variety of transportation agencies and organizations.

Strategy 1.1: Recruit and maintain full committee membership.

Action 1.1.1: Maintain a membership chair with standing mandate to recruit as necessary to maintain full committee roster and to monitor progress towards diversity and participation goals, including geographic spread, rural/urban, younger professionals, minority groups, international, MPOs, transit agencies, state and federal research institutes, and consultants/vendors.

Action 1.1.2: Identify potential members from other TRB committees and subcommittees that have a natural linkage with statewide issues as well as from outside organizations (e.g., AASHTO Standing Committee on Planning, Association of Metropolitan Planning Organizations [AMPO], and American Public Transportation Association [APTA]), and from non-traditional partners (e.g., public health organization, auto manufacturer, high-tech company).

Action 1.1.3: Prepare for 2018 rotation of members and in doing so recognize the diversity of knowledge and expertise needed within the realm of planning.

Action 1.1.4: Use the Goal structure of this TSP as the framework for business agendas.

Strategy 1.2: Recruit and maintain committee friends.

Action 1.2.1: Create awareness of committee activities and recruit new friends through regular committee communications and up-to-date MyTRB information.

Action 1.2.2: Increase interaction between members and friends through peer exchanges, webinars, and regular committee business (e.g., paper reviews, quarterly meetings, subcommittees).

Action 1.2.3: Survey or conduct focus groups (via webinar) of current friends to gauge what they view as the benefits of involvement and how to better meet their goals/needs.

Action 1.2.5: Launch a mentoring program, pairing experienced committee members/friends with young professionals. A partnership with Young Members Council (Planning Section) could help pilot the effort.

Goal 2: Promote practitioner information exchange. Share and advance best practices in statewide multimodal transportation planning.

Strategy 2.1: Increase committee outreach.

Action 2.1.1: Identify formal liaisons to improve coordination and cooperation with other relevant TRB committees.

Action 2.1.2: Actively utilize the committee liaison program including the reporting of other relevant committee work at the annual and summer meetings; include these reports as part of the minutes of the committee meeting.

Action 2.1.3: Identify opportunities to engage with transportation organizations and non-transportation partners (such as those working in public health, economic development, and social services). Engagement can include speaking at meetings, attending conferences, attending/participating in peer exchanges, attending/conducting training, and sharing best practices.

Action 2.1.4: Identify outside organizations in need of transportation planning volunteers and encourage committee participation (e.g., relevant

committees within AASHTO, AMPO, APTA, American Planning Association [APA], Intelligent Transportation Society of America (ITS America) and the Institute of Transportation Engineers (ITE). Continue the strong connection with AASHTO's Standing Committee on Planning.

Action 2.1.5: Share experience with committee members and friends (e.g., during the annual or summer meetings, or via email), including reporting back experiences to committee members as part of the meeting agenda(s).

Strategy 2.2: Conduct an annual peer exchange and share information with wider audience.

Action 2.2.1: Identify peer exchange topics during the late fall and finalize at the annual meeting.

Action 2.2.2: Secure funding to support an annual peer exchange.

Action 2.2.3: Organize a teambuilding event during the peer exchange.

Action 2.2.4: Document the peer exchange meeting, share report with members and friends, and post on the committee website.

Strategy 2.3: Utilize the TRB annual and summer meeting sessions for sharing and highlighting research results, peer exchange outcomes, and current best practices in statewide multimodal transportation planning.

Action 2.3.1: Sponsor at least one session each year during the Annual Meeting highlighting innovative practices in statewide multimodal transportation planning.

Action 2.3.2: Maximize the use of remaining annual meeting sessions by co-sponsoring sessions with other committees on topic of mutual concern and by use of poster sessions.

Action 2.3.3: Conduct “call for papers” well in advance of the August 1 deadline to generate potential session material. Encourage committee members to author papers.

Action 2.3.4: Communicate session results through webinars and the committee’s website. This will also help move research into practice.

Action 2.3.5: Annually develop a Fresh Ideas Call for Posters to foster and identify innovation in transportation planning research. This work will be coordinated within the Fresh Ideas subcommittee and include selected ideas in a posters session at the committee meeting at the annual meeting.

Action 2.3.6: Use communication tools such as webinars to share research information and best practices.

Strategy 2.4: Sponsor a Special Focus Conference every three years or as funding and interest allow, providing an opportunity for a broader exchange of practices, applications, and research in the area of statewide multimodal transportation planning.

Action 2.4.1: At the January full Committee meeting, convene a triennial conference planning committee charged with exploring feasibility, funding, and timing of the next special focus conference, and report back to the Committee Chair by summer.

Goal 3: Support multimodal transportation planning research.

Continually foster and contribute to the research, development, and implementation of statewide multimodal planning in transportation agencies and academic organizations.

Strategy 3.1: Maintain a “critical issues” subcommittee to identify and leverage multimodal statewide planning topics of interest for both near and longer-term research activities.

Action 3.1.1: Maintain a list of “critical issues” for potential research, annual session topics, peer exchanges, call

for papers or posters, and/or specialty conferences. Refresh this list annually in consultation with the full committee and friends. Coordination in identifying ideas shall include surveying members and friends of the committee. Prioritizing proposed issues and considering both additions to and retiring issues will be included on this list.

- Action 3.1.2: Connect committee “critical issues” to topics identified through TRB strategic planning. Actively coordinate with the TRB Research Council Coordinators to further partnerships with other Committees on “critical issues.” Emphasis will be placed on developing specific research needs statements in the database up to date.
- Action 3.1.3: Maintain at least one academic / research--oriented committee member or friend on the “critical issues” subcommittee.
- Action 3.1.4: Coordinate the development of research proposals for consideration by NCHRP, Transit Cooperative Research Program (TCRP), Federal Highway Administration (FHWA), TRB, and other research funding organizations. Share research results with other committee members and friends (e.g., during annual and summer meeting or via email).
- Action 3.1.5 Submit a minimum of one problem statement annually for consideration as an NCHRP project. To the extent practical, use the annual peer exchange or planning research conference meeting as the forum for developing NCHRP problem statements. Submit a minimum of one problem statement annually for consideration in the NCHRP 08-36 “quick-response” research program.
- Action 3.1.6: Foster relationships with other related committees to coordinate research proposals, broaden support for proposed research topics, and identify new topics of mutual interest.

Action 3.1.7: Identify a committee member to be the Committee Research Coordinator in support of providing the knowledge and tools necessary to develop a robust research portfolio.

Strategy 3.2: Expand committee participation in research efforts (e.g., NCHRP, TCRP, research project expert panels, project consultation selection panels, and FHWA Capacity Building and Performance Management programs and case studies).

Action 3.2.1: Identify potential research opportunities and encourage committee member and friend participation.

Strategy 3.3: Strengthen the relationship with SCOP to positively affect committee information exchange between SCOP and the committee, improve research proposals, and exchange information resources with www.statewideplanning.org

Action 3.3.1: Partner with SCOP on peer exchanges and meetings, including coordinating with SCOP task forces such as multimodal and autonomous and connected vehicles.

Action 3.3.2: Support 8-36 research projects such as Planning Snapshots as an opportunity to share best practices in Planning.

Action 3.3.3: Identify committee members that are members of SCOP and their ongoing subcommittees as another venue for best practices and sharing of knowledge.

Strategy 3.4: Identify other organizations that fund research (TCRP, NCHRP, etc.) and foster relationships with those organizations.

Strategy 3.5: Continue the Joint Subcommittee on Statewide Travel Forecasting to stimulate improvement in statewide travel forecasting procedures. Strengthen and/or actively foster new relationships with other committees and subcommittees.

Action 3.5.1: Revise and maintain a list of “critical” issues for potential research, annual session topics, peer exchanges, “call for papers” and/or specialty conferences related specifically to statewide travel forecasting and analysis and coordinate same with the Critical Issues Subcommittee.

Action 3.5.2: Facilitate, share, leverage, and disseminate research activities and results and discuss proposed and active research and applications, experiences and results both at the annual meeting and via occasional peer exchanges or specialty conferences as deemed necessary by the subcommittee membership.

Action 3.5.3: Identify, recommend, encourage and monitor needed research as defined in Action 3.5.1 by pursuing some activity in each critical area including, but not limited to, NCHRP research projects, a call for papers for each TRB annual meeting (and related annual meeting session), specialty conferences developed per Action 3.5.2 and sponsoring sessions or tracks at other conferences including, but not limited to, the parent committee’s statewide planning conference (strategy 2.4), the biannual Transportation Planning Applications Conference, and the biannual Innovations in Travel Modeling Conference.

Action 3.5.4: Maintain liaison with and respond to the concerns and strategies of the other parent committee (Transportation Demand Forecasting) and the Travel Analysis Methods Section in general.

Goal 4: Improve committee communication. Widely communicate research findings, best practices, and related information on statewide multimodal planning, using a broad range of information sharing methods and technologies.

Strategy 4.1: Define and empower the role of the Committee Communication Coordinator (CCC).

Action 4.1.1: Identify additional methods to better communicate within the Committee. Determine which opportunities would benefit the Committee and take action to incorporate these in the Committee’s activities.

Action 4.1.2: Utilize the MyTRB website to the fullest extent possible for committee communications.

Action 4.1.3: Recruit a backup CCC to ensure continuity in committee communications.

Strategy 4.2: Expand the usage of new technology to conduct committee meetings and general business.

Action 4.2.1: Promote the use of collaboration tools (e.g. Google Sites, GoTo Meeting, etc.).

Action 4.2.2: Ask the Committee Communication Coordinator to provide regular updates from the TRB Committee Communication Coordinator Council regarding technology usage by TRB committees.

Action 4.2.3 Schedule quarterly conference calls or GoTo Meeting to facilitate discussions on critical issues and address administrative items.

Strategy 4.3: Maintain and promote a committee website

Action 4.3.1: Refine and better promote our committee Google website. Link curated Wiki and LinkedIn sites to our Committee website.

Action 4.3.2: Regularly update website with committee member and friend contact information, meeting minutes, reports, presentations, and other relevant committee activities. Add a brief bio for each committee member.

Strategy 4.4: Improve dissemination of committee business, research, and best practices through other organizations.

Action 4.4.1: Poll current committee members and friends regarding what other organizations they belong to that could be channels for dissemination.

Action 4.4.2: Facilitate committee webinars for dissemination of research findings, best practices, and related information on statewide multimodal planning.

Goal 5: Move Research into Practice

Strategy 5.1: Look for appropriate mechanisms to help move research into practice, including (but not limited to) communication from the committee to other partner and stakeholder groups, university programs, and professional staff and practioners.

Action 5.1.1: Utilize webinars, URLs, and QR codes as follow-up tools to share additional ideas on best practices and research findings with academia (for curricula) and professionals (staff dissemination). In addition, use these tools to collaborate with the TRB Education and Training Committee, and the ITE, American Society of Civil Engineers (ASCE), APA, and curriculum and education committees.

Action Item 5.1.2: Introduce best practices into transportation curricula and employee training programs.

Action 5.1.3: Support research that helps to identify the particular skills, abilities, and knowledge that will be needed for future transportation planning staff. This will include identifying projects for the new NCHRP research implementation program.

III. Committee History 2013 - 2015

Committee Membership

Between 2012-2015, ADA10 underwent committee rotation losing some key members, but added nine new members to the committee several of whom came from the committee's active "friends" list.

Current roster as of January 2016 is: 32 (27 members, 3 young, 1 emeritus, 1 liaison).

50% – State DOT	16% – MPO	19% – Consulting
6% – Academic	9% – Federal	0% – Transit

Friends: 301 friends of committee

Subcommittees

- ADA10 along with ADB40 jointly sponsor Subcommittee of Statewide Travel Demand Forecasting Joint Subcommittee.
- ADA10 sponsors the Critical Issues Subcommittee.
- ADA10 coordinates Strategic Plan changes through a Subcommittee on Strategic Plan Development

Communications

Launched new committee website in 2011 with substantial updates in 2015:

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

Annual Meeting Activities

Paper Review: The first set of numbers reflects the papers submitted by ADA 10 and the second line represents the work of the ADA 10 Modeling Subcommittee.

Year	Reviewed	Presentation/Poster	Publication
2013	5	2	1
	13	7	2
2014	4	3	1
	20	11	1
2015	7	5	1
	11	8	1
<i>Totals</i>			

Poster Review (Fresh Ideas):

Year	Abstracts Reviewed	Posters Accepted	Presented at Committee Meeting
2014	25	14	3
2015	17	10	2
<i>Totals</i>	42	24	5

Annual Meeting Sessions Sponsored: 22 (See Appendix for session details)

Year	Panel Sessions	Poster	Co-sponsor
2013	3	2	1
2014	3	2	3
2015	3	2	1
<i>Sub-Totals</i>	9	4	9

Committee Diversity

Characteristics	2013	2014	2015
White	24	23	21
Black	1	1	2
Hispanic	0		1
Asian or Pacific Islander	0		1
American Indian			
Unknown	1	1	3
Female	10	9	8
Male	16	16	20

Recent Research Projects Sponsored by Committee

- NCHRP 20-05/Topic 47-10 (Synthesis) *“Resource Allocation of Available Funding to Programs of Work” -Ongoing*
- NCHRP 08-36/Task 137 *“Assessing the Utility and Costs of Statewide Travel Demand Models” -Ongoing*
- NCHRP 08-36/Task 137 *“Advancing Sustainability through Multi-Agency Collaboration”-Selected.*
- NCHRP 2018 B-21 *“A Comprehensive Study of Future Competencies for Transportation Planners”-On 2017 NCHRP Ballot*

Peer Exchanges Held

- 2013: Addressing Institutional Challenges to Implementing MAP-21
<https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnxzZGF0ZXdpZGVwbGFubmluZ3xneDoyNTg5NzY2Yjc0MDkwYzEw>
- 2014: Performance Outcomes Beyond the Mainstream
<https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnxzZGF0ZXdpZGVwbGFubmluZ3xneDo2YjZjNmViZjE5MjY0NjAw>
- 2015: Connected Vehicles in Planning
<https://drive.google.com/file/d/0B90LEDD4GJjSRGIMYXptX2FsYnc/view>

Conference

ADA 10 sponsored the Use of Scenario Planning in Transportation Planning Conference on August 14-17, 2016, in Portland, Oregon. The conference explored the use of scenario planning, strategies to develop scenarios, and ways that transportation plans can respond to scenarios. Officials gathered from state departments of transportation, metropolitan planning organizations, and local agencies; consultants; and researchers to share knowledge, experiences, and the latest research on using scenario planning approaches. The event built upon previous scenario planning research and applications – particularly the TRB's National Cooperative Highway Research Program (NCHRP) Foresight 750 Series.

Appendix

Annual Meeting Sessions

2013 - 2015

**Statewide Multimodal Transportation Planning
(ADA10)**

2013

ADA10 - Statewide Multimodal Transportation Planning

Paper or Conference Session (S)s

228 (KFS13-004)

Monday, January 14, 2013, 8:00am- 9:45am, Hilton, International East

Incorporating Risk in Planning and Programming

Alix Bockelman, Oakland Metropolitan Transportation Commission, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Programming, Planning, and Systems Evaluation; Committee on Statewide Transportation Data and Information Systems

Transportation agencies assess and manage risk as part of the performance-based planning and programming processes. Risk analysis plays an integral part in resource allocation and data management practices for asset management, capital investment, and policy development. This session demonstrates how risk applies to planning and programming decisions and highlights best practices on incorporating risk analysis into the performance management process.

Case Studies in Risk Management for Rapid Renewal Projects (P13-5164)

Keith R. Molenaar, University of Colorado, Boulder

How to Incorporate Risk Decision Making into Planning and Programming Phase of a Capital Program (P13-5256)

John C. Milton, Washington State Department of Transportation

Pat Morin, Washington State Department of Transportation

Integrating Risk into Investment Decision Making at Minnesota Department of Transportation: Past, Present, and Future (P13-5398)

Ryan Wilson, Minnesota Department of Transportation

821 (KFS13-005)

Wednesday, January 16, 2013, 4:30pm- 6:00pm, Hilton, Georgetown West

Planning for Efficiency: Incorporating Operations into the Planning Process

Jerri Bohard, Oregon Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Ways to include operations improvements in the planning process in order to increase system efficiency and capacity are considered in this session. With constraints on budgets and on the ability to expand the system, the planning process can include operations in goal setting, scenarios, strategy development, prioritization, and allocation of resources.

Triumphs and Challenges of Integrating Transportation Systems Management and Operations in Portland, Oregon, Regional Planning Process (P13-5470)

Deena Platman, Portland Metro

Key Resource for Considering Operations in Planning: SHRP L05--Integrating Travel Time Reliability into Planning and Programming (P13-5471)

Anita Vandervalk-Ostrander, Cambridge Systematics, Inc.

Multimodal Operations in Statewide Planning in Virginia (P13-5472)

Dean Gustafson, Virginia Department of Transportation

487 (KFS13-017)

Tuesday, January 15, 2013, 8:00am- 9:45am, Hilton, Columbia Hall 6

Long-Distance Travel Demand Modeling

Keith L. Killough, Arizona Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Demand Forecasting

This session explores recent advances in understanding and modeling of long-distance intercity passenger travel demand.

Mode Choice Modeling for Long-Distance Travel (13-1796)

Rolf Moeckel, University of Maryland

Rick Donnelly, Parsons Brinckerhoff

Rhett Fussell, Parsons Brinckerhoff

Discrete-Continuous Choice Model with Multiple Budget Constraints, Imperfect and Perfect Substitutes, and Price Variation: Application to Household Vacation Travel Behavior (13-1885)

Abdul Rawoof Pinjari, University of South Florida

Vijayaraghavan Sivaraman, University of South Florida

Modeling Framework for Long-Distance Pleasure Travel Supply Analysis (13-3384)

Sa Xiao, University of Washington

Runze Yu, University of Washington

Yinhai Wang, University of Washington

Modeling Long-Distance Travel in Great Britain (13-3497)

Charlene Rohr, Rand Europe, United Kingdom

James Fox, Rand Europe, United Kingdom

Andrew Daly, RAND Europe

Bhanu Patruni, Rand Europe, United Kingdom

Sunil Patil, Rand Europe, United Kingdom

Flavia Tsang, Rand Europe, United Kingdom

Poster Session (P)s

413 (KFP13-001)

Monday, January 14, 2013, 4:15pm- 6:00pm, Hilton, International Center

Innovations in Statewide Multimodal Planning

Gregory Giaimo, Ohio Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Understanding the Impact of Gasoline Price Changes on Traffic Safety: A Time Geography Approach (13-1687)

Guangqing Chi, Pennsylvania State University

Jeremy Porter, Brooklyn College

Arthur G. Cosby, Mississippi State University

David M. Levinson, University of Minnesota

Statewide Multimodal Planning: Current Practice at State Departments of Transportation (13-2882)

Anthon Sonnenberg, Georgia Institute of Technology

Frank Southworth, Georgia Institute of Technology

Michael Meyer, Parsons Brinckerhoff

Carol Comer, Georgia Department of Transportation

Comparison Between Gravity and Destination Choice Models for Trip Distribution in Maryland (13-3196)

Sabyasachee Mishra, University of Memphis

Yanli Wang, Tongji University, China

Xiaoyu Zhu, University of Arizona

Rolf Moeckel, University of Maryland

Subrat Mahapatra, Maryland State Highway Administration
Development of Maryland Statewide Transportation Model and Its Application in Scenario Planning (13-5024)

Sabyasachee Mishra, University of Memphis
Timothy F. Welch, Georgia Institute of Technology
Rolf Moeckel, University of Maryland
Subrat Mahapatra, Maryland State Highway Administration
Morteza Tadayon, Maryland State Highway Administration

Establishing Values of Time for Freight Trucks for Better Understanding of Impact of Toll Policies (13-0865)

Alan J. Horowitz, University of Wisconsin, Milwaukee
Mazen Hussein, University of Wisconsin, Milwaukee
Qinfen Mei, University of Wisconsin, Milwaukee

From Super Block to Small Block: Road Network Transformation and Its Impact (13-2349)

Zhigao Wang, China Sustainable Transportation Center
Yinghao Li, Kunming Urban Planning and Design Institute
Jungen Li, Kunming Urban Planning and Design Institute
Liang Li, Kunming Municipal Urban Planning Bureau

Published Meeting - Committee (M)s

KFM13-020

Monday, January 14, 2013, 10:15am-12:00pm, Hilton, Cardozo

Critical Issues Subcommittee, ADA10(3)

Ronald D. McCready, Private Consultant, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

KFM13-022

Tuesday, January 15, 2013, 1:30pm- 5:30pm, Hilton, Columbia Hall 2

Statewide Multimodal Transportation Planning Committee

Patricia Hendren, Spy Pond Partners, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

KFM13-025

Monday, January 14, 2013, 7:30pm- 9:30pm, Hilton, Columbia Hall 4

Statewide Travel Demand Forecasting Joint Subcommittee of ADA10, ADB40

Gregory Giaimo, Ohio Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

ADA10 Cosponsored Sessions (only editable by the primary committee sponsor)

KFS13-015

Wednesday, January 16, 2013, 8:00am- 9:45am, Hilton, Columbia Hall 7

MAP-21 Planning and Programming Reforms: Hopes, Fears, and Bright Ideas

Thera Black, Thurston Regional Planning Council, presiding

After a brief overview of key MAP-21 reforms, several practitioners share their unique perspectives and implementation strategies on the planning and programming revisions. Areas of reform to be highlighted

include program consolidation, performance management, National Highway System designations, and national freight network development. To that end, speakers will offer a variety of perspectives: state, regional, transit, freight, and nonmotorized transportation.

MAP-21 Overview (P13-5165)

Craig Paul Secrest, High Street Consulting Group, LLC

State DOT Perspective (P13-5166)

Sandi Kohrs, Colorado Department of Transportation

MPO Perspective (P13-5167)

Charles E. Howard, Puget Sound Regional Council

Nonmotorized Perspective (P13-5168)

Margo Pedroso, Safe Routes to School National Partnership

Freight Perspective (P13-5169)

George Schoener, I-95 Corridor Coalition

Transit Perspective (P13-5170)

Andrea H. Burnside, Washington Metropolitan Area Transit Authority

Audience Perspective and Open Dialogue (P13-5171)

2014

ADA10 - Statewide Multimodal Transportation Planning

Paper or Conference Session (S)s

805 (KFS14-013)

Wednesday, January 15, 2014, 10:15am-12:00pm, Hilton, Lincoln West

How to Make the Most of What We've Got

John Kaliski, Cambridge Systematics, Inc., presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

The growing gap between transportation investment needs and available resources is spurring agencies to become more creative in leveraging public and private funding sources, packaging projects, and streamlining project development activities. How can states and MPOs take advantage of these opportunities while also meeting statewide and metropolitan goals and performance targets? Hear from four agencies on their recent experiences in advancing bridge, highway, intermodal, and bicycle projects.

Oregon's OTIA III Bridge Program (P14-5909)

Paul Mather, Oregon Department of Transportation

Pennsylvania's Local Bridge Bundling (P14-5910)

Anthony McCloskey, Pennsylvania Department of Transportation

Advancing Projects Through Florida's Strategic Intermodal System (P14-5911)

Bob Romig, Florida Department of Transportation

San Diego's Regional Bike Program: Advancing a \$200 Million Investment (P14-5912)

Charles 'Muggs' Stoll, San Diego Association of Governments

607 (KFS14-016)

Tuesday, January 14, 2014, 1:30pm- 3:15pm, Hilton, International West

Sharing the Story: Using Technology to Make Planning Real

Jerri Bohard, Oregon Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Technology is providing the planning community with new platforms to share data, mapping, and other information in new and innovative ways to assist decision makers, provide portals to foster collaborative

planning opportunities, and provide access to information for both stakeholders and the general public. Representatives from four states report on how these new tools are helping to strengthen the planning process.

IDrive Arkansas (P14-5443)

Jessie Xu Jones, Arkansas State Highway and Transportation Department

SPOT Online: North Carolina Department of Transportation's GIS-Based Web Application for Providing Automated, Near-Real-Time Prioritization Scores and Project Costs (P14-5444)

David Wasserman, North Carolina Department of Transportation

WSDOT's Community Transportation Planning Portal: ArcGIS Online Forum for Collaboration in Planning (P14-5445)

Elizabeth Robbins, Washington State Department of Transportation

Mosaic: Oregon's Web-Based Resource for Local and Regional System Planning (P14-5446)

Samuel N. Seskin, CH2M Hill

837 (KFS14-019)

Wednesday, January 15, 2014, 2:30pm- 4:00pm, Hilton, Columbia Hall 8

Statewide Impact of Disasters, Transit, and Land Use: Cool New Stuff You Can Look at Now That You Have a Statewide Travel Model

Gregory Giaimo, Ohio Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Demand Forecasting

More and more states have developed ever more capable statewide travel demand forecasting models over the past 10 to 15 years. This session explores ways in which the latest generation of models can be used to guide a variety of statewide policy decisions beyond traditional highway capacity expansion.

Estimated Economic Value of an Investment Program to Mitigate Impacts of a Major Seismic Event Using Oregon Statewide Integrated Model (14-3017)

Rebecca A. Knudson, Oregon Department of Transportation

Alex Bettinardi, Oregon Department of Transportation

Impact of Transit-Oriented Development Scenarios on Transportation in Maryland (14-1439)

Yanli Wang, Tongji University, China

Timothy F. Welch, Georgia Institute of Technology

Frederick Ducca, University of Maryland, College Park

Bing Wu, Tongji University, China

Synergistic Effects of Transit, Land Use, and Vehicle Pricing Policies on Vehicle Miles Traveled: Case Study with California Activity-Based Travel Demand Model (14-4304)

Caroline Jane Rodier, University of California, Davis

Brandon Haydu, University of California, Davis

Nicholas J. Linesch, University of California, Davis

Farzad Alemi, University of California, Davis

Giovanni Circella, Georgia Institute of Technology

Impact of Proposed Land Use and Transportation Investments on Future Travel Patterns In California (14-4821)

Andrew James McFadden, University of California, Davis

Giovanni Circella, Georgia Institute of Technology

Brandon Haydu, University of California, Davis

Nicholas J. Linesch, University of California, Davis

Even Smarter Growth? Land Use, Transportation, and Greenhouse Gas Emissions in Maryland (14-5306)

Uri P. Avin, PB PlaceMaking

Timothy F. Welch, Georgia Institute of Technology

Gerrit Knaap, University of Maryland, College Park

Frederick Ducca, University of Maryland, College Park
Sabyasachee Mishra, University of Memphis
Yuchen Cui, University of Maryland, College Park
Sevgi Erdogan, University of Maryland, College Park

Poster Session (P)s

429 (KFP14-002)

Monday, January 13, 2014, 4:15pm- 6:00pm, Hilton, International Center

Fresh Ideas for Statewide Transportation Planning

Elise Barrella, James Madison University; John Kaliski, Cambridge Systematics, Inc., presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Transportation planning is evolving because of demographic and economic changes, new technologies and data, and shifting policy priorities. Buzzwords like “performance-based,” “operations,” “fiscally constrained,” “sustainability,” or “livability” illustrate the new frontiers for planning. How can transportation planners adjust methods and messages in a performance-based environment? This poster session allows sharing of fresh ideas for conducting statewide multimodal transportation planning.

Automated Environmental Screening and Workflow in the Planning Process (P14-6279)

Frank DeSendi, Pennsylvania Department of Transportation

Drew Ames, Pennsylvania Department of Transportation

Georgia Interstate Risk Assessment Study (P14-6280)

Krystal Harris, Georgia Department of Transportation

HRTPO Transportation Improvement Program: Enhanced Performance Monitoring and Visualization (P14-6281)

Michael S. Kimbrel, Hampton Roads Transportation Planning Organization

Identifying Traffic Bottlenecks on Florida’s Strategic Intermodal System (P14-6282)

Paul Fang, Florida Department of Transportation

Chris Edmonston, Florida Department of Transportation

Praveen Pasumarthy, CDM Smith

Improving Performance on Corridors of National Significance (P14-6283)

Kelsey Ahern, Cambridge Systematics, Inc.

Erik Cempel, Cambridge Systematics, Inc.

Nathan Hutson, Cambridge Systematics, Inc.

Jason Hyde, Cambridge Systematics, Inc.

Improving Transportation Flow and Accessibility with Smart-Device-Summoned Ride Services (P14-6284)

James Fishelson, University of Michigan

Jonathan Levine, University of Michigan

Integrating Vehicle Probe Data into the Metropolitan Planning Process (P14-6285)

Keith M. Nichols, Hampton Roads Transportation Planning Organization

Measuring the Accessibility of Intermodal Centers in Virginia (P14-6286)

David Hurst, Dye Management Group Inc.

Phil Kempf, Virginia Department of Transportation

FE Scudder Wagg, Michael Baker Corporation

Vladimir Gavrilovic, Renaissance Planning Group

J. Kelli Nash, Office of Intermodal Planning and Investment

Why Fix It First? Modeling the Benefits of Maintaining the U.S. Transportation System (P14-6287)

David Vautin, Metropolitan Transportation Commission

Elizabeth Paterson, Metropolitan Transportation Commission

Real-Time INRIX Speed Data Vital in South Carolina Department of Transportation Congestion Management Process (P14-6288)

Dipak M. Patel, South Carolina Department of Transportation

- Rick Reiff, Stantec Consulting Services Inc
The Innovative DOT, Second Edition (P14-6290)
Christopher McCahill, State Smart Transportation Initiative
Eric Sundquist, State Smart Transportation Initiative
Using Truck Probe Data to Identify Bottlenecks and Measure System Performance in Pennsylvania (P14-6291)
Brian Wall, Pennsylvania Department of Transportation
Jeff A. Carroll, CDM Smith
Erin Dean, CDM Smith
Brian Hare, Pennsylvania Department of Transportation
Hugh McGowan, Pennsylvania Department of Transportation
Kristin Mulkerin, Pennsylvania Department of Transportation
Jeffrey Bradford Short, American Transportation Research Institute
Tyler Stoner, Pennsylvania Department of Transportation
Using Big Data for Automobile Origin-Destination Studies (P14-6294)
Ben Cummins, Resource Systems Group, Inc.
Gregory Mark Spitz, RSG
Peter Krootjes, TomTom International, Netherlands
James Novakowski, Resource Systems Group, Inc.
Using Outlook Meeting Invitations to Prevent Simultaneous River Crossing Closures (P14-6295)
Robert Case, Hampton Roads Transportation Planning Organization

690 (KFP14-006)

Tuesday, January 14, 2014, 4:15pm- 6:00pm, Hilton, International Center

Technical Side of Statewide Planning: Tools for Moving Toward Performance-Based Decision Making

Phillip J. Mescher, Iowa Department of Transportation, presiding
Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Demand Forecasting; Committee on Eminent Domain and Land Use

Exploring Future Transport Demand in the United States: Scenario-Based Approach for 2030 (14-2021)

Johanna P. Zmud, Texas A&M Transportation Institute
Peter Phleps, Institute for Mobility Research, Germany
Liisa Ecola, RAND Corporation

Mosaic: Oregon's Value- and Cost-Informed Planning Tool (14-4582)

Robert Maestre, Oregon Department of Transportation
Samuel N. Seskin, CH2M Hill
Catherine Ciarlo, CH2M Hill
Stéphane Gros, HDR | Decision Economics

Empirical Models of Demand Levels and Turn-in Rates at Roadside Rest Areas (14-0048)

Jonathan Kay, Wayne State University
Timothy Jordan Gates, Michigan State University
Peter Tarmo Savolainen, Iowa State University
Adam McArthur, Wayne State University
Brendan James Russo, Wayne State University

Model Information Exchange System: Unified Network Database Framework for Travel Demand Modeling (14-1354)

Iilir Bejleri, University of Florida
Yiqiang Ouyang, University of Florida
Zhong-Ren Peng, University of Florida

Nested Logit-Based Latent Segmentation Model for Examining Rhythms of Long-Distance Trips in Illinois (14-1500)

Behzad Karimi, University of Illinois, Chicago

Zahra Pourabdollahi, RS&H, Inc.

Abolfazl Mohammadian, University of Illinois, Chicago

How to Increase Rail Ridership in Maryland: Direct Ridership Models for Policy Guidance (14-3417)

Chao Liu, University of Maryland, College Park

Sevgi Erdogan, University of Maryland, College Park

Ting Ma, University of Maryland, College Park

Frederick Ducca, University of Maryland, College Park

Use of Three Surveys for Long-Distance Travel Estimates in California (14-5674)

Eric Bierce, Cambridge Systematics, Inc.

David L. Kurth, Cambridge Systematics, Inc.

The Impact of the In-House Staff vs. Consultant Services on the Right of Way Acquisition Process in Mississippi (14-2087)

Imad Aleithawe, Mississippi Department of Transportation

Published Meeting - Committee (M)s

KFM14-020

Tuesday, January 14, 2014, 8:00am- 9:45am, Hilton, Cardozo

Critical Issues Subcommittee, ADA10(3)

Jerri Bohard, Oregon Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

KFM14-022

Monday, January 13, 2014, 7:30pm- 9:30pm, Hilton, Columbia Hall 4

Statewide Multimodal Transportation Planning Committee

Patricia Hendren, Spy Pond Partners, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

KFM14-025

Wednesday, January 15, 2014, 8:00am- 9:45am, Hilton, Northwest

Statewide Travel Demand Forecasting Joint Subcommittee of ADA10, ADB40

Gregory Giaimo, Ohio Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

ADA10 Cosponsored Sessions (only editable by the primary committee sponsor)

MMW14-001

Sunday, January 12, 2014, 1:30pm- 4:30pm, Hilton, International East

Thriving, Not Just Surviving the MAP-21 Implementation Process: Federal, State, and Local Guidance

Daniela Bremmer, Washington State Department of Transportation; Hugh Louch, Cambridge Systematics, Inc., presiding

MAP-21 is influencing how state departments of transportation, metropolitan planning organizations, and transit agencies set priorities and targets, develop plans, and report measures. Building on the most current information and peer exchanges, this workshop further prepares organizations on the MAP-21

topics of performance management, target setting, new data and analysis systems, and timely topics emerging from the publication of the proposed rules.

Panel Discussion: Thriving and Not Just Surviving the MAP-21 Implementation Process: Federal, State, and Local Guidance, Part 1 (P14-5247)

Jeffrey F. Paniati, Federal Highway Administration
Frederick G. Wright, American Association of State Highway and Transportation Officials
Ananth Prasad, Florida Department of Transportation
Carlos Bracerias, Utah Department of Transportation
Steve Heminger, Metropolitan Transportation Commission

Panel Discussion: Thriving and Not Just Surviving the MAP-21 Implementation Process: Federal, State, and Local Guidance, Part 2 (P14-5259)

Peter J. Stephanos, Federal Highway Administration
Matthew Hardy, American Association of State Highway and Transportation Officials
Mara K. Campbell, HERE
Patricia Hendren, Spy Pond Partners
Michael L. Pack, University of Maryland, College Park

SBW14-002

Sunday, January 12, 2014, 1:30pm- 4:30pm, Shoreham, Congressional

Status of State Rail Planning: Coordinating, Collaborating, and Implementing

Donald B. Ludlow, CPCS Transcom, Incorporated, presiding

State departments of transportation have developed a new generation of state rail plans in response to the Passenger Rail Infrastructure Investment Act of 2008. This workshop focuses on the status of state rail planning and methods for coordinating with other planning efforts. The workshop has four modules: (a) advances in state rail planning, (b) coordination with other plans (e.g., MAP-21 state freight plans), (c) private-sector collaboration, and (d) confrontation of future challenges.

Advances in State Rail Planning (P14-6112)

Donald B. Ludlow, CPCS Transcom, Incorporated
Paul C. Worley, North Carolina Department of Transportation

Coordination with Other Plans (P14-6108)

Barbara Ivanov, Washington State Department of Transportation
Kyle Gradinger, Federal Railroad Administration
Christopher Smith, American Association of State Highway and Transportation Officials

Private Sector Collaboration (P14-6021)

Aaron Hegeman, BNSF Railway Company
Jennifer Kinsella, CSX Transportation, Inc.
Jerry E. Vest, Genesee & Wyoming Railroad Services, Inc.
Paul C. Worley, North Carolina Department of Transportation
Tamara Nicholson, Iowa DOT

Future Opportunities and Challenges in State Rail Planning (P14-6055)

Emily Stock, Virginia Department of Rail and Public Transportation
Anne Canby, OneRail Coalition

TPS14-008

Monday, January 13, 2014, 3:45pm- 5:30pm, Hilton, International West

Data Challenges of Intermodal Planning: Past Experience and Future Needs

Geoffrey D. Gosling, Aviation System Consulting, LLC, presiding

Planning intermodal projects or efforts to improve intermodal connectivity can face significant challenges

integrating data from multiple modes, since most existing data sources tend to be organized and managed on a modal basis; this leads to problems with incomplete data and lack of consistency across modes. The session examines how these data challenges have been addressed in past studies and discusses how the data needs of effective intermodal planning can be better addressed in the future.

FHWA's Plan and Actions on Multimodal Passenger Travel Data (P14-6322)

Tianjia Tang, Federal Highway Administration

Development of Ridership Forecasts for California High-Speed Rail System (P14-6324)

David L. Kurth, Cambridge Systematics, Inc.

Eric Bierce, Cambridge Systematics, Inc.

Rachel B. Copperman, Cambridge Systematics, Inc.

Jeffrey N. Buxbaum, Cambridge Systematics, Inc.

Thierry Prate, Parsons Brinckerhoff

Challenges and Approaches to Providing Data for Planning Along Freight Corridors: I-95 Corridor Coalition Perspective (P14-6323)

George Schoener, I-95 Corridor Coalition

Maryland Freight Planning Implementation: Practitioner's View of Data Usage and Needs (P14-6325)

Deborah Bowden, Maryland Department of Transportation

2015

ADA10 - Statewide Multimodal Transportation Planning

Paper or Conference Session (S)s

551 (KFS15-002)

Tuesday, January 13, 2015, 10:15am-12:00pm, Convention Center, 146B

Innovative Practices in Collaboration Between State Departments of Transportation and Metropolitan Planning Organizations

John Kaliski, Cambridge Systematics, Inc., presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Performance based planning, asset management, freight, system management and operations--most major transportation planning issues today require collaboration between state departments of transportation and metropolitan planning organizations. Hear a report on innovative practices identified at two peer exchanges in summer 2014, as well as descriptions of recent successes and lessons learned from DOT and MPO partners in two states: Florida and Michigan. Come share ideas from your state.

Findings from Summer 2014 Peer Exchanges (P15-5774)

Janet D'Ignazio, ICF International

Collaboration in Asset Management: Michigan DOT and Southeast Michigan Council of Governments (P15-5775)

Tom Bruff, Southeast Michigan Council of Governments

Craig B. Newell, Michigan Department of Transportation

Collaboration on Long-Range Planning and Performance Measures: Florida DOT and Florida's MPO Advisory Council (P15-5777)

James Wood, Florida Department of Transportation

Howard Glassman, Florida Metropolitan Planning Organization Advisory Council

201 (KFS15-003)

Monday, January 12, 2015, 8:00am- 9:45am, Convention Center, 146A

Measuring What Really Matters: Accessibility and Connectivity, Economic Competitiveness, and Health

Brian J. Smith, Consultant, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Would you like to live in a vibrant community with access to jobs, education, and healthcare with active transportation options that promote a healthy lifestyle? Come learn how transportation and industry professionals are using nontraditional performance measures focusing on accessibility and connectivity, economic competitiveness, and health in their planning and decision making.

Accessibility Links to Health and Economic Competitiveness (P15-5646)

Andrew Owen, University of Minnesota

Data and Measures and Models, Oh My! But Why? Do They Move Decisions? (P15-5647)

Janet F. Kavinoky, U.S. Chamber of Commerce

Thinking Outside the Double Yellow Lines: Florida's Successful Collaboration Between Transportation and Economics Departments (P15-5648)

Barbara Foster, Florida Department of Economic Opportunity

Intersecting Health and Transportation (P15-5830)

Arthur Wendel, Centers for Disease Control and Prevention

552 (KFS15-012)

Tuesday, January 13, 2015, 10:15am-12:00pm, Convention Center, 145A

Developing Truck Origin-Destination Flows from GPS Data

Gregory Giaino, Ohio Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Demand Forecasting; Committee on Trucking Industry Research; Committee on Statewide Travel Demand Forecasting

This session presents advances in understanding of recently available truck GPS location data from secondary sources. Presentations show how to process and expand those data to obtain temporally and spatially precise origin-destination flows as well as routing, speeds, tour patterns, and so forth.

Estimation of Statewide Origin-Destination Truck Flows from Large Streams of GPS Data:

Application for Florida Statewide Model (15-5463)

Akbar Bakhshi Zanjani, University of South Florida

Abdul Rawoof Pinjari, University of South Florida

Mohammadreza Kamali, University of South Florida

Aayush Thakur, Cambridge Systematics, Inc.

Jeffrey Bradford Short, American Transportation Research Institute

Vidya Mysore, Federal Highway Administration

Frank Tabatabaee, Florida Department of Transportation

Expanding Truck GPS-Based Passive Origin-Destination Data in Iowa and Tennessee (15-4687)

Vincent L. Bernardin, RSG

Steven Trevino, RSG

Jeffrey Bradford Short, American Transportation Research Institute

Analysis of Freight Corridors Using GPS Data on Trucks (15-2244)

Mania Flaskou, University of Memphis

Maxim A Dulebenets, University of Memphis

Mihalis M. Golias, University of Memphis

Sabyasachee Mishra, University of Memphis

Robert Rock, Tennessee Department of Transportation

Global Positioning System-Based Truck Modeling for Regional Travel Demand Forecasting (15-4658)

David Jung-Hwi Lee, Georgia Institute of Technology

Catherine Ross, Georgia Institute of Technology

Poster Session (P)s

435 (KFP15-002)

Monday, January 12, 2015, 4:15pm- 6:00pm, Convention Center, Hall E

Innovations in Statewide Transportation Planning

Jerri Bohard, Oregon Department of Transportation; Phillip J. Mescher, Iowa Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Demand Forecasting; Committee on Statewide Travel Demand Forecasting

Econometric Approach to Forecasting Vehicle Miles Traveled in Wisconsin (15-3197)

Mike Sillence, Cambridge Systematics, Inc.

Jennifer Murray, Wisconsin Department of Transportation

State Role in Fostering Regional Transportation Planning (15-3422)

Ruth L. Steiner, University of Florida

Kathryn I. Frank, University of Florida

James Ronald Ratliff, University of Florida

Transportation System Health Analysis: Corridor-Level Study of Georgia's State Routes (15-3448)

Richard Sarpong Boadi, Georgia Institute of Technology

Stephanie Amoaning-Yankson, Georgia Institute of Technology

Margaret-Avis Akofio-Sowah, Georgia Institute of Technology

Stefanie Brodie, Georgia Institute of Technology

Adjo A. Amekudzi, Georgia Institute of Technology

Integrated Fuzzy Technique for Order Preference by Similarity to Ideal Solution Framework for Evaluating High-Speed Passenger Rail Corridor Alternatives (15-3641)

Sunil Kumar Madanu, University of Texas, Arlington

Stephen P. Mattingly, University of Texas, Arlington

Katie A. Larsen, University of Texas, Austin

Siamak A. Ardekani, University of Texas, Arlington

National Travel Demand Model for the United States: Person-Based Microsimulation Approach (15-4416)

Yijing Lu, University of Maryland, College Park

Xiqun (Michael) Chen, Zhejiang University

Lei Zhang, University of Maryland, College Park

Statewide Dynamic Traffic Routing for Transportation Planning: Maryland Case (15-4429)

Sevgi Erdogan, University of Maryland, College Park

Krishna Patnam, AECOM

Frederick Ducca, University of Maryland, College Park

Zuxuan Deng, University of Maryland, College Park

Di Yang, University of Maryland, College Park

Xiang Wang, Tongji University, China

Subrat Mahapatra, Maryland State Highway Administration

Evaluation of Reliability Estimation Based on Regression Models for Use in Planning Applications (15-4476)

Jianmin Jia, Florida International University

Yan Xiao, Florida International University

Mohammed Hadi, Florida International University

Maintaining Project Consistency Throughout the Project Development Process (15-4732)

Megan Kenney, Texas A&M Transportation Institute

Mohamadreza Farzaneh, Texas A&M Transportation Institute

Jolanda P. Prozzi, Texas A&M Transportation Institute

Residence and Job Location Change Choice Behavior Under Flooding and Cyclone Impacts in Bangladesh (15-5272)

Qing-Chang Lu, Jiaotong University, China

Zhang Junyi, Hiroshima University, Japan

Zhong-Ren Peng, University of Florida

Simplified Dynamic Traffic Assignment Framework for Statewide Traffic Modeling (15-6090)

Sevgi Erdogan, University of Maryland, College Park
Xuesong Zhou, Arizona State University
Jiangtao Liu, Arizona State University

436 (KFP15-010)

Monday, January 12, 2015, 4:15pm- 6:00pm, Convention Center, Hall E

Fresh Ideas in Statewide Transportation Planning

Elise Barrella, James Madison University; John Kaliski, Cambridge Systematics, Inc., presiding
Sponsored by Committee on Statewide Multimodal Transportation Planning

Fresh ideas are highlighted in two areas: performance measures beyond the mainstream--agencies highlight meaningful measures in areas such as reliability, accessibility and connectivity, economic development, public health, quality of life and livability, and sustainability--and corridors to the future--agencies are developing innovative corridor solutions to meet tomorrow's mobility needs for people and freight through multimodal planning, operational strategies, and new technologies.

Incorporating Highway Safety Manual into Metropolitan Planning Process (P15-5761)

Keith M. Nichols, Hampton Roads Transportation Planning Organization
Sam Belfield, Hampton Roads Transportation Planning Organization

Performance Measurement in Innovative DOT Handbook: Third Edition Release (P15-5762)

Christopher Michael Spahr, State Smart Transportation Initiative

Pathways to Progress: Multifaceted Planning Approach to Freight Mobility (P15-5763)

Steve Linhart, Texas Department of Transportation

Exploring Transportation Equity Using Geographic Information Systems and Environmental Justice Factors (P15-5764)

Michelle Renee Oswald Beiler, Bucknell University
Mona Mohammed, Bucknell University

U.S. Fish and Wildlife Service National Long-Range Transportation Plan (P15-5767)

Steven Suder, U.S. Fish and Wildlife Service
Andrew Valdez, U.S. Fish and Wildlife Service
Nathan Caldwell, U.S. Fish and Wildlife Service

Economic Performance of Freight Corridors (P15-5768)

Stephen S. Fitzroy, Economic Development Research Group
Chandler Duncan, Economic Development Research Group
Derek Cutler, Economic Development Research Group

National Park Service Innovative and Sustainable Transportation Evaluation Process (P15-5771)

Jan Burton, National Park Service
Treff Alexander, National Park Service
Robin Gregory, National Park Service
Lee Terzis, National Park Service

Developing Performance Measures for Rural Transportation Access (P15-5772)

Melissa Ann Ziegler, CDM Smith
Donald Vary, CDM Smith

Trade-off Analyses in Performance-Based Statewide Multimodal Transportation Planning (P15-5773)

Qiang Bai, CH2M Hill
Alyson Welsh, Cambridge Systematics, Inc.
Roger Boothe, CH2M Hill

Florida's Future Corridor Planning Process (P15-5776)

James Wood, Florida Department of Transportation
Huiwei Shen, Florida Department of Transportation

Published Meeting - Committee (M)s

KFM15-020

Tuesday, January 13, 2015, 8:00am- 9:45am, Marriott Marquis, Independence C (M4)

Critical Issues Subcommittee, ADA10(3)

Mark B. Nelson, Minnesota Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

KFM15-022

Monday, January 12, 2015, 1:30pm- 3:15pm, Marriott Marquis, Independence D (M4)

Statewide Multimodal Transportation Planning Committee

Jerri Bohard, Oregon Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

KFM15-025

Monday, January 12, 2015, 3:45pm- 5:30pm, Marriott Marquis, Independence A (M4)

Statewide Travel Demand Forecasting Joint Subcommittee of ADA10, ADB40

Gregory Giaimo, Ohio Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

ADA10 Cosponsored Sessions (only editable by the primary committee sponsor)

KFW15-005

Sunday, January 11, 2015, 9:00am-12:00pm, Convention Center, 145A

Advancing the Statewide Transportation Planning and Analysis: Statewide Dynamic Traffic Assignment (DTA) and Agent-Based Models (ABM)

Sevgi Erdogan, University of Maryland, College Park; Xuesong Zhou, Arizona State University, presiding

The aim of this workshop is to help practitioners and researchers in applying advanced supply and demand models with emphasis on applications of DTA methodology and ABM to statewide modeling and planning focusing on challenges specific to statewide models such as model building, methodological, computational, calibration, validation, visualization and implications on application. It will be of interest to audience from academia, government agencies, industry and to the TRB audience in general.

DTA in Statewide Models: Motives, Means, and Opportunity (P15-6299)

Brian Gardner, Federal Highway Administration

Implementation of Large Scale DTA (P15-7099)

Natarajan Janarthanan, Washington State Department of Transportation

Estimating and Forecasting Truck Trip Tables for Statewide Analyses (P15-6304)

George F. List, North Carolina State University, Raleigh

Processes to Support the Application of Dynamic Traffic Assignment by Transportation Agencies (P15-6301)

Mohammed Hadi, Florida International University

Challenges and Opportunities with Statewide DTA for Integrated Planning and Operations – The Maryland Experience (P15-6302)

Subrat Mahapatra, Maryland State Highway Administration

Deploying ABM with DTA Methods for a Large & Congested Urban Regional Network: The Atlanta Regional Commission Case Study (P15-6306)

Guy Rousseau, Atlanta Regional Commission

Microsimulation Approaches for Statewide Modeling – Pushing the Boundaries (P15-6307)

Ram M. Pendyala, Georgia Institute of Technology

Panel Discussion on “Statewide Modeling Needs and Research Paths” (P15-6316)

Frederick Ducca, University of Maryland, College Park

Brian Gardner, Federal Highway Administration
Gregory Giaimo, Ohio Department of Transportation
Mohammed Hadi, Florida International University
Natarajan Janarthanan, Washington Department of Transportation
Keith L. Killough, Arizona Department of Transportation
George F. List, North Carolina State University, Raleigh
Subrat Mahapatra, Maryland State Highway Administration
Ram M. Pendyala, Georgia Institute of Technology
Guy Rousseau, Atlanta Regional Commission

PLANNING AND ENVIRONMENT GROUP
ADA20 TRIENNIAL STRATEGIC PLAN
Metropolitan Policy, Planning and Processes Committee
TSP Period: January 2017 – January 2020

Revised Draft 12/6/16

UNDERSTANDING

The Triennial Strategic Plan (TSP) supports the Metropolitan Policy, Planning and Processes Committee (ADA20) in our efforts to set and maintain a strategic course of research, policy, and best practices dialogue. The TSP provides a framework within which the Committee identifies areas of focus and strategies for engagement. Updates of the TSP provide the Committee an opportunity to review its scope in light of current and emerging issues. The TSP helps the Committee refine priorities, renew important liaisons, and refresh cross cutting issues.

FUTURE OUTLOOK

Scope

The ADA20 committee addresses the dynamic institutional relationships and interactive processes associated with metropolitan transportation planning and Metropolitan Planning Organizations (MPOs). It supports the critical MPO role of developing, managing, and implementing long-range plans (both within the traditional transportation planning process, and in a multitude of related regional topics), and provides an objective, collaborative forum to explore all related facets of transportation planning including strategic, technical, and consensus building roles. The committee fulfills this mission by anticipating future planning needs and actively fostering the kind of interdisciplinary partnerships within TRB and the broader transportation community that are needed to successfully address current and emerging 21st century metropolitan transportation issues.

Factors and Influences that will Shape Committee Activities

Metropolitan transportation planning is both proactive and responsive. It provides an arena in which diverse and occasionally competing issues must be considered objectively while at the same time being sensitive to political, cultural, environmental, economic, and technological realities. It is an inclusive process, one in which many different interests must be considered. There are three primary factors and influences likely to shape committee activities over the next 3 years.

- MAP-21 and FAST Act Direction and Rulemaking –
 - [Final Rule on Statewide and Nonmetropolitan Transportation Planning and Metropolitan Transportation Planning](#) (5/26/2016)
 - [System Performance/Freight Movement on the Interstate/CMAQ Program Performance Measures NPRM](#)
 - [MPO Coordination and Planning Area Reform NPRM](#)
- Administration Policy, Finance, and Regulatory Direction – Continuation of current programs and policies and new policies and programs under the next administration. Example of current focus areas ~~and research~~ include:

- [USDOT Beyond Traffic](#)
- [Interstate Futures Study](#)
- [Ladders of Opportunity](#)
- [Smart Cities](#)
- Transformational Technology – Transformational, or “disruptive” technologies, are those that can be expected to completely displace the status quo, changing the way we live and work. Our current expectations for transformational technology directly relevant to urban transportation– ~~includes & primarily focused on~~ focus on autonomous and connected vehicles and all related aspects of smart mobility and a shared economy, including the internet of things. Other technologies including 3-D printing, distributed manufacturing, and changing logistics patterns including drone delivery, will also have significant impacts on transportation activity.
- [NCHRP Foresight Series](#)
- Connected / Autonomous Vehicle Research, [Policy](#), Implementation
- Autonomy and Shared Mobility
- Transportation big data, the internet of things, and cyber security

Commented [WU1]: Awkward sentence.

Committee Strategies

Core strategies represent the foundation for an on-going ADA20 action plan that helps ensure the committee stays ahead of these factors and influences.

1. Foster collaboration and coordination across TRB committees on issues of significance to the metropolitan transportation planning community.
2. Contribute to the professional development of practitioners currently working in metropolitan transportation planning, and to those who will work in the field in the future.
3. Sponsor or actively participate in workshops, peer exchanges, conferences, or other activities that support attainment of the Metropolitan Policy, Planning and Process Committee’s scope and goals.
4. Promote research, facilitate discussion, and disseminate information on issues and practices relevant to the metropolitan transportation planning and Metropolitan Planning Organization (MPO) communities, and their broad array of partners and constituents.
5. Maintain open and relevant lines of communication within the ADA20 community of members, friends and liaisons, as well as with the broader community of TRB committees and transportation professionals to better facilitate the exchange of information and ideas.

Commented [WU2]: These probably best belong under the Committee Plan. I would be specific on how you would achieve these. What resources will you use? What committees will you collaborate with? What

COMMITTEE PLAN

The Committee Plan is a focused statement of ADA20s strategic direction over the next 3 or more years. We’ve identified three primary groups of critical issues that will guide the committee scope.

ADA20 Critical Issues

- **Stay In Front of Emerging Directions** (how will you stay in front of the following emerging issues? What actions will you take? What products will you create? You discussed these issues in the previous section. This should be more action oriented.)
 - **New Technologies and Smart Cities**
 - i. Connected/autonomous vehicles – Deployment scenarios and impacts; vulnerability to hacking and technology failures, changes to logistics; safety for all users, and other (maintain an open perspective, as rapid advancement/change continues)
 - ii. Smart Mobility / Sharing Economy – Shift in consumption of transportation to a utility based model, enhanced role of social media and other communications
 - iii. Additive/Distributed/Micro Manufacturing - Impact on logistics patterns and economy
 - iv. Private corporation engagement/partnership, particularly regarding Smart Cities, autonomous vehicles, delivery/logistic frameworks
 - v. Integrated multi-sector infrastructure management - Creating test beds for “Internet of Things” applications and developing new multi-sector collaborative models, and successfully deploying these and other new approaches often depends on new regional collaborations among a diverse array of public and private actors, including industry, academia, and various public entities
 - **Climate Change / Energy Shifts**
 - i. Anticipating and modeling impacts - Sea level rise, weather events, agriculture
 - ii. Adaptation/resiliency - integrating climate risk into decision making, emergency response/evacuation planning, transportation infrastructure and network resiliency
 - iii. Mitigation – Continued focus on strategies, programs, funding, goal/target setting and tracking progress
 - iv. Energy – Progress toward an increasingly diverse energy mix for transportation and the impacts on funding, the environment, transportation costs
 - **Megaregions** - Logistics patterns, global competitiveness, governance and funding
 - **Socio-economic shifts** - Development, land use, and travel demand/choice impacts for an aging and diversifying population
 - **Equity** - Ongoing commitment to equitable access to economic opportunity, and operationalizing principles of equity in transportation planning
 - **Public Health and Environment** – Promoting and protecting human and ecosystem health
- **Improve Practice Through New Planning Tools and Techniques** (Again, what actions will the committee take to address these objectives?)
 - **Scenario planning** – Continue to participate (in what?) ~~and~~ to expand an understanding of the the state of practice for metropolitan region based scenario planning, particularly as it relates to addressing uncertainty within development of LRTPs. This includes integrating uncertainty regarding the role of disruptive technologies and testing the resiliency of plan assumptions and priorities as it relates to these disruptions.

Commented [WU3]: Seems to be an opportunity to present these as Goals, Strategies and Actions. This seems to mix critical issues with a strategic direction for the committee. I would separate them, perhaps expanding on the outlook to articulate which issues you intend to address as a committee during the next three years (really 2 at this point). Use the plan to articulate specific strategies and actions for achieving this.

Commented [WU4]: ?

- **Performance based planning & programming (PBPP)** - Rules, guidance and best practice; linking plans to funding programs; and, improving analysis tools and methods
- **Big data** – Continue to promote and share research on optimizing new data sources to improve planning, including best practices for collecting, storing, and disseminating data
- **Virtual Engagement** – Improving public engagement through social media & mobile tech (consider the equity benefits and planning efficiencies)
- **Contribute to the Dialogue and Help Lead on Changing MPO Roles, and Responsibilities** (Where and how will you contribute to this dialogue? Are there opportunities to initiate the dialogue? Who should be at the table? What TRB tools would help – webinars, mid-year conferences, peer exchanges? What internally derived tools would help – white papers, annual meeting sessions, research problem statements, etc.)
 - **Funding** – Shifting role between the Federal government, state government, regional and local funding, and private interest, and the impact of this shift on the traditional MPO planning process.
 - **Institutional relationships** - MPO and other governments (local, state, MPO, rural, non-transportation sector agencies, military, etc.) and the issues and opportunities these relationships present for programming, planning, integration of transportation and land use decision-making, and coordination on megaregional issues.
 - **Institutional effectiveness** - Manage implementation of the long-range plan and other responsibilities in light of evolving state and federal priorities and regulations, work force transitions, and emerging issues.
 - **Evolution of metropolitan transportation decision-making processes** - Legislative changes affecting the ability of metropolitan regions to make investment and other key policy, technical and governance decisions
 - **The Unknown** – Maintain readiness to work with Federal and other partners to participate in all relevant Administration discussions on transportation funding, finance, planning, and the role of MPOs.

Action Plan

Consistent with the ADA20 mission and scope, the committee’s action plan anticipates the need to respond to the critical issues while maintaining progress on existing initiatives.

1. Continue the Megaregion Subcommittee and work to establish formal joint partnerships within TRB that support the planning needs of megaregions.
2. Continue the Transportation within Military Communities Subcommittee to provide a TRB forum in which to explore the complex intersection of civilian and military sectors within metropolitan transportation planning areas.
3. Identify ways to better disseminate existing research and practice-ready papers to the broader transportation planning community. For a number of reasons, planning practitioners are often unaware of beneficial TRB research and resources. ADA20 is well positioned to identify barriers that inhibit this awareness and then develop and promote tools tailored to specific outreach needs.
4. Solicit and review papers on topics of relevance to MPOs and metropolitan transportation planning processes for TRB publication and presentation.

5. Sponsor TRB sessions and workshops on topics that strengthen metropolitan transportation planning processes and meet the needs of MPOs.
6. Develop research statements on topics of relevance to MPOs and metropolitan transportation planning processes, and enhance dissemination of relevant TRB research to the broader planning community.
7. Develop, share and advance information on best practices in response to emerging trends in metropolitan transportation planning and MPO processes.
8. Work with relevant professional and membership organizations, as appropriate, to share and enhance ADA20 committee activities and initiatives.
9. Ensure representation of metropolitan planning perspectives as active liaisons on task forces, joint subcommittees, and other relevant activities of various TRB committees, and as active participants on research and synthesis panels.

Commented [WU5]: Good! Product specific.

Formatted: Underline

Commented [WU6]: How? To whom?

Commented [WU7]: Good!

ADA20 Communications

ADA20 maintains periodic communications via email with its list of Members, Friends, and Liaisons on topics of interest to the metropolitan transportation community. Over the next three years, ADA20 will re-evaluate and modify as necessary its communication strategies for work with broad transportation interests within the TRB community, including reconsideration of the value of a more active committee website or other cloud-based information sharing approach.

ADA20 Membership (should be under committee history below)

The nature of metropolitan transportation planning demands diverse representation within the Committee's membership. ADA20 strives to maintain geographic and professional diversity. The Committee also actively recruits Young Members and International Members, all of whom bring important perspectives to the Committee's work. ADA20 recognizes that metropolitan transportation planning is conducted by Metropolitan Planning Organizations in addition to many other types of organizations. While MPOs represent a significant share of metropolitan planning within the United States, the Committee benefits from the insights of other organizations and entities engaged in this process. (Your committee is up for a rotation in 2018. How will you use the next year to identify people to build a diverse and effective committee?)

Committee History. This part does not count towards the so-called 1500 word limit (which I am very flexible on). Should include the data we submitted to you in August and some additional discussion, as appropriate, on:

- Committee membership
- Descriptions of subcommittees, joint subcommittees, and their activities
- # papers reviewed the last 3 years and how they were distributed (published, rejected, presented) and/or published
- Annual meeting programs for the last 3 years
- Sponsorship or co-sponsorship of specialty conferences (such as the Scenario Planning conference last summer)
- Research statements developed and their progress (whether any were funded or advanced)
- Anything else of significance the committee did during the last 3 years leading to this TSP.

Formatted: Font: Calibri, Bold

Formatted: Font: Calibri

Formatted: Font: Calibri

Formatted: Font: Calibri

Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0.25" + Indent at: 0.5"

Formatted: Font: Calibri

PLANNING AND ENVIRONMENT GROUP
Committee Triennial Strategic Plan (TSP)

Committee Name and Number: ADA30, Transportation Planning for Small and Medium Sized Communities

Committee Chairperson: Jerry D. Everett

TSP Three-Year Period: April 2017 to April 2019

Date Prepared: December 2016

Committee Future Outlook Statement:

Current Committee Scope

The committee will provide support to transportation planners in small and medium sized communities by identifying research needs pertinent to small and medium sized areas, participating in the research process, and sharing the research results. Research will focus on all modes of transportation in small and medium sized communities and in all aspects including planning, developing, programming and implementation of projects.

Committee Future Outlook

Small and medium sized communities make up the majority of the land area of the nation and have differing transportation needs. While this group includes the smaller (non-TMA) MPOs, it also includes more rural areas such as small towns, cities and places. The result of this mixed group of stakeholders is often an opportunity to help “grow” the capabilities of the more rural or smaller jurisdictions’ work and their efforts to address transportation planning as they mature and potentially grow into a small MPO.

Small and Medium Sized Communities are often challenged-with many responsibilities and few resources, which is why the Committee focuses on best practices and transferable tools. Financial projections for transportation revenues are not promising, thus identification and communication of these best practices along with other effective/efficient methods will continue to be the greatest contribution that the committee can make to its stakeholders.

With regard to specific issues and topics, the Executive Board of the Transportation Research Board published *Critical Issues in Transportation 2013*, which identify a number of important crosscutting issues across the transportation sector. All six of the Executive Board’s critical issues listed here are relevant to varying degrees and will be of concern to the committee’s stakeholders during the next seven years:

1. Transportation system performance
2. Safety
3. Transportation impacts on energy, climate and environment
4. Funding for infrastructure
5. Innovation in passenger mobility
6. Reduced R&D investment

The committee will track these issues closely and plans to address each of these through our core activities during ~~the course of~~ the next seven years.

The committee plans to support research and related activities that will benefit planners in small and medium sized communities. The committee has three major goals for the future:

1. **Information Sharing:** Facilitate the collection and wide dissemination of information on transportation planning and programming techniques, procedures and policies to planning staff working with small and medium sized communities, as well as other interested parties.
2. **Research:** Identify research needs and participate in research studies sponsored by TRB and other organizations that address transportation planning and programming problems, issues, applications, and techniques that are applicable to small and medium sized communities.
3. **Membership:** Maintain a committee membership that represents diverse geographic areas and specializations within the transportation field.

The committee plan outlined below offer specific strategies to accomplish the committee goals.

Committee Plan:

There are many issues that are important to the Committee on Transportation Planning for Small and Medium Sized Communities including the six highlighted by TRB. It is likely that in the next three years the greatest impact on planning in small and medium sized areas will come from three of the critical topics identified by TRB: 1) transportation system performance, 2) safety and 3) infrastructure funding. Our approach to each is briefly described below.

1. **Transportation system performance –** Monitoring performance of all transportation modes is necessary to ensure that public services are meeting the needs of our citizens. Planning for the unexpected remains a challenge as the array of natural and manmade disasters continues to expand. Our committee will continue to adapt best practices from one region to be used for another region in order to benefit from experience and lessons learned.
2. **Safety -** Consistently the number one priority for all transportation systems and operations, this issue needs our constant attention. New technologies hold promise for improved safety in both highway and transit modes, but will require agencies to acquire new skills to plan, operate and maintain these systems adequately. We intend to make safety an emphasis area as the topic of safety becomes more of a core element in transportation planning.
3. **Funding for infrastructure –** The nation's transportation infrastructure requires billions of dollars to improve and maintain. Finding ways to fund this need is critical and must address the needs equitably of large urban regions, small and medium sized communities and rural areas. The committee will follow the deliberations regarding funding and as appropriate, participate in related activities as well as disseminate information, analysis and research to our constituents.

Projects and Activities

The committee has established strategies to accomplish the committee's three goals identified in the Committee Future Outlook section above. These strategies are detailed below for each of the three stated goals.

GOAL 1: INFORMATION SHARING

1. **Sponsor a national conference (Tools of the Trade) that highlights current and relevant information on transportation planning for small and medium sized communities.**

The Committee hosts the Tools of the Trade (TOTT) conference every two years on even years and rotates the location among various sites in the country. The Committee has developed and follows a conference manual which provides guidance on timelines and sessions. Additionally, the committee hosts technical workshops in conjunction with the conference as well as in coordination with other committees. Following the conference the proceedings are provided to research outlets, conference attendees and stakeholders. As a part of the conference, the committee encourages young professional participation by organizing a student paper competition, with awards (both plaques and monetary) presented at the conference. Professional development is also encouraged with the best presentation competition at the conference and selected presenters are invited to present at the following TRB Annual Meeting. In order to receive feedback from the attendees at the conference, evaluations of individual sessions and the overall conference are conducted. Additionally, the Conference Manual is viewed as a living document and both the content and format are updated after each conference to continue to incorporate improvements.

Commented [L1]: Should highlight link between research and practical tools presented at the conference.

2. Communications and public website.

The Committee has identified a Communications Coordinator, Erin Toop, who leads our social media communications, provides support for the website and coordinates other communications activities. In order to facilitate the continuous sharing of information, the committee maintains a public website www.trbtoolsofthetrade.org and routinely posts updates on committee activities. Through this medium, a contact portal is established which allows for user feedback. The website is used to announce items of broad interest to our stakeholders such as the Tools of the Trade Conference as well as post proceedings and other pertinent information.

3. Maintain current information on Committee members, friends, and conference contacts.

Undoubtedly the most valuable resource of the committee is the contact database which includes committee members, friends, and conference contacts. In order to facilitate communication and collaboration, the committee maintains this list and makes major updates before and after each Tools of the Trade conference.

4. Interface with other TRB Committees, associations, agencies, and interested parties.

In order to build on and collaborate with our partner committees, associations, agencies and interested groups, the committee identifies both members and friends of the committee to serve as volunteer liaisons with these organizations. Additionally, the committee invites other committees, associations, agencies and interested parties to give presentations on relevant and timely topics during our meetings and conferences.

5. Actively participate in TRB Annual Meetings.

Meetings of the Committee and subcommittees (Conference, Research, and Air Quality) are conducted in coordination with the TRB Annual Meeting. Sessions at the Annual Meeting (generally, one paper session and one session of best tools from the Conference) are sponsored by the committee. Additionally, the committee co-sponsors sessions with other TRB Committees. A paper review coordinator is appointed to oversee the review process, and a moderator is assigned to coordinate each session at the Annual Meeting.

Commented [L2]: The Air Quality Sub Committee was originally a joint sub-committee with ADC20 Transportation & Air Quality. The purpose of this sub-com was re-evaluated by the active participants as part of the previous TSP. Sounds like it is a good time to have that discussion again.

Commented [WU3]: A subcommittee does not have a formal structure or standing within TRB. You may dissolve it or change it at any time without our approval, but with our knowledge. The TSP is a perfect opportunity to identify a subcommittee that is no longer relevant and recommend its elimination.

Commented [J4]: I am not sure that an Air Quality Sub Committee is still warranted. What is the process for changing the focus and name of a subcommittee?

GOAL 2: RESEARCH

1. Maintain a standing subcommittee on research.

The Committee supports a standing subcommittee on research which meets periodically, as determined by the subcommittee chair.

2. Facilitate access to research relevant to planning for small and medium-sized communities.

The committee hosts and maintains an online database of summaries of research publications relevant to planning practitioners. Annually, the committee contributes new summaries to the database and issues announcements to potential customers. Triennially, the committee assesses customer satisfaction, deletes outdated and irrelevant material, and considers format changes.

3. Follow progress of relevant research studies.

The Committee identifies relevant ongoing research conducted by TRB and other organizations and tracks the progress of the research as well as reports the findings to the Committee. This research is shared with committee stakeholders.

4. Promote participation of Committee members on research panels.

The committee identifies relevant studies and promotes appropriate committee members for nomination to project panels.

GOAL 3: MEMBERSHIP

1. Maintain a Committee membership which is geographically and professionally diverse and includes individuals from traditionally under-represented groups.

As part of the three-year TRB rotation, the committee evaluates the composition of the Committee membership to ensure that diverse regions of the country are represented; that members represent a diverse range of professional agencies (DOTs, MPOs, RPOs/COGs, local agencies, universities, consultants); and that members are selected from traditionally under-represented groups.

2. Maintain a list of "active friends" to supplement formal Committee members.

In an effort to recruit new committee members, the committee encourages friends to participate in Committee activities such as Conference planning, website maintenance, paper reviews, etc. Alumni committee members are engaged in committee business in an effort to preserve the committee's institutional knowledge.

[Please add the section on committee history that includes the data we provided but elaborates on special projects and activities of your committee with a small amount of text, such as the conferences you had, the projects and activities of your subcommittees, research problem statements you prepared and may have had funded. The TSPs may be reviewed by the TAC or other leadership and should have this information in it, although it is located on the committee website.](#)

Commented [WU5]: Any thoughts on strategies for getting research funded by the NCHRP, TCRP or other programs? Any thoughts on using the research database to guide or otherwise recruit speakers for Tools of the Trade as an effort to facilitate putting research into practice?

Commented [J6]: Note this is our proposed New course of action regarding research. We are transitioning in this direction based on the results of the stakeholder survey. However, full implementation will only be possible once the quick response research project that we proposed is completed and the associated tools is available.

Commented [WU7]: That's fine. The ongoing research should be identified in your committee's 3-year history summary.

Commented [L8]: I would be happy to provide a good example from within our Section.

POLICY AND ORGANIZATION GROUP

Committee Triennial Strategic Plan (TSP)

Committee Name and Number: ADB50 - Transportation Planning Applications

Committee Chairperson: Ms. Julie K.P. Dunbar, PE

TSP Three-Year Period: December 15, 2016 to December 15, 2019

Date Prepared: December 14, 2016

Committee Scope

This committee is concerned with the application of new or improved transportation planning methods and techniques and their practical application at the regional, corridor, and site level of analysis. The Committee promotes networking and the exchange of ideas among researchers, practitioners, and experts in other relevant fields of study and promotes research that has tangible benefit for real-world applications. The specific focus of the committee is the development and support of the National Transportation Planning Applications Conference (TRPAppCon) series. The topics included in the conference program focus on three tracks; modeling, planning and data. More specifically, the committee is concerned with the applications of travel forecasting models, both activity based and non-activity based, dynamic network assignment models, transit forecasting and analysis tools and methods for visualizing and reporting results to decision makers. The data track includes examples applications of national datasets, transit on board surveys, cell phone and other big data sources, toll and pricing data and traffic count and operations data. The planning track often ends up combining the other two tracks with examples of project work from every level (national, state, regional, corridor) and mode (highway, transit, toll road, bicycle, pedestrian) with special focus on how the model and data work culminates with project results for use by planners and decision makers. The intent is to provide a venue for sharing the practical applications and outcomes of planning efforts with practitioners, researchers and other experts to allow the connection of practical input to research and expert planning analysis. Thus providing the research-to-practice conduit that is at the forefront of TRB and more specifically ADB50.

Future Outlook

It is anticipated the following issues will influence the committee's programs and activities over the next 3-7 years. While continuing the focus on applications and providing the practitioner

greater opportunity to share and consider new techniques, other critical topic areas that come to the forefront for ADB50 are:

- Big data sources and data science methods;
- Connected and automated vehicles;
- Changing demographics and increased urbanization.

Incorporating new data science methods is critical to improving the modeling tools planners/practitioners are using to inform decision makers of future plan outcomes. Connected and automated vehicles are clearly on their way into mainstream transportation, but mid and long range planning processes are challenged by the identification of impacts a more robust CAV fleet might provide. Trip/tour making characteristics are changing, with a greater demand for flexibility in modeling tools and stronger data for assessing travel behaviors. Business as usual is no longer appropriate when looking to the future and using modeling tools based on historic trends are likely missing the real and rapid change coming with the presence of millennials in the work place. Peaking characteristics are changing and urbanization is creating unanticipated transportation constraints. Car ownership, active transportation, virtual work spaces, on demand personal transport providers (Uber/Lyft) all create a changing demographic that is challenging to measure. Critical to supporting these issues from the committee's perspective is providing the ability for agencies and practitioners to learn new methods for evaluating the impact they represent. The discussion of real world applications and strategies for using new data sources, introducing C/AV and evaluating transportation impacts of changing demographic is central to the committee scope and supported by topic areas at TRBAppCon.

Clearly, ADB50 is focused on sharing and networking in order to help provide critical thinking opportunities for practitioners and researchers. The ability to truly bring research to practice continues to be a challenge and one that ADB50 is always considering when planning sessions for the TRB Annual Meeting as well as the program for TRBAppCon. Already in the works, but also still very much a future goal is to continue the introduction of workshops, discussion sessions, tutorials and lightning talks to motivate sharing of ideas and provide forums for learning techniques. The Analyze This! Workshop series, begun by ADB50 at the 2016 Annual Meeting and continued in 2017 is a new format of Annual Meeting workshop that seeks real problems and attempts to results in real solutions. Research needs from these workshops and those in the future will be submitted for consideration.

With each new conference, ADB50 tries to include additional formats for information sharing and discussion. TRBAppCon 2017 has workshops, discussion sessions, tutorials, podium sessions and lightning talks all included in the program. This varied approach to sharing information continues to be a successful format for knowledge transfer – especially when blending practitioners together. Connecting to the research community continues to be a challenge and one that will remain on the list of issues for the next 3-7 years. The committee will encourage the formation of research statements and NCHRP submissions with the outcomes of the discussion at TRBAppCon.

Overarching goals for the future are:

- To continue to foster opportunities to work with other committees/sections and groups when planning future workshops and conference sessions;
- To identify research needs based on TRBAppCon related discussions- specifically focused at applied research;
- To broaden the focus of critical topic areas and remain flexible to those that surface during each TRBAppCon cycle; and,
- To identify new ways of promoting practitioner exchange during the off years of TRBAppCon.

STRATEGIC PLAN – 2016 - 2018

Committee Strategic Planning

The committee has a unique role given the central focus on TRBAppCon. A substantial number of volunteer hours are required to prepare for and implement the conference every other year and often the committee's energy is expended with this effort. Although the conference plays a vital role in the committee's purpose, it is important for the committee to be mindful of activities outside of the conference that can support the committee scope. To promote this, a more active role must be taken in developing research needs and submitting NCRP requests. In addition, the committee should continue to promote non-conference related workshops and sessions at the TRB Annual Meeting and even consider opportunities to connect with other conferences (the Innovations in Travel Modeling Conference being a great candidate) to develop a continuum of discussion from one year to the next.

Promoting the discussion and knowledge sharing may also require new venues/platforms as public agencies continue to struggle with travel funds and constrained budgets. To be strategic, the committee should consider new opportunities outside TRBAppCon. Additional ways to connect practitioners with new techniques and methods should be a focus of the way forward.

Listed in the scope above, the committee's critical topic areas will likely change during the next 3 years. It will be important for the committee to be open to additions to this list and to re-focusing as new strategies and challenges become evident.

Committee Activity Plans and Projects

National Transportation Planning Applications Conference: ADB50 is actively engaged in organizing the next planning applications conference scheduled for May 2017 in Raleigh, NC. The preliminary program for this conference includes sessions on **big data** and **automated and connected vehicles** and also provides a variety of opportunities for attendee participation and **networking**. ADB50 hopes to continue the networking emphasis of the conference by providing discussion and podium sessions, along with tutorials and small group gatherings. The conference will continue during the three to seven year timeframe and beyond. It is tentatively set to be in Phoenix, AZ in 2019 and in Minneapolis/St. Paul in 2021.

Analyze This! Workshop: ADB50 co-sponsored a workshop at the 2017 Annual Meeting called Analyze This! As noted in the previous section, this workshop format was developed by ADB50

members for the 2016 Annual Meeting and successfully provided a true working environment where real problems were solved in real time. It was a great success in 2016, but to enhance it even further and in attempts to address the Section goals for cross cutting committee work, Analyze This! 2017 was sponsored by a different TRB committee. ADB50 members worked hard to enlist a much greater variety of committees outside the section to assist with the upcoming workshop. The networking and sharing of ideas and solutions across a broader base of TRB Committees is in line with ADB50's goal to promote **networking** and **cross-cutting issue** discussion.

Collaboration with other Conferences: To address the goal of reaching beyond TRBAppCon, the committee will work to identify topics/discussions/planning tracks that warrant continued focus at conferences/meetings in the years opposite to TRBAppCon. Efforts to submit a discussion/tutorial/lightning talk/podium session proposal to these conferences will be encouraged to provide a continuing forum for sharing.

Collaboration with other Committees: As demonstrated in the Analyze This! workshop series, ADB50 will continue to seek opportunities for collaboration with other TRB Committees. One specific area of focus will be to encourage relevant information presented at TRBAppCon to be incorporated in to the Travel Forecasting Resource effort of ADB45. TFResource represents another avenue for not only collaboration but also supporting the ongoing knowledge transfer for practitioners that is at the heart of the conference series.

Encourage applied, planning focused research: The committee will work to identify planning based research topics or synthesis candidates from the topics and discussion at TRBAppCon. Consideration will be given to the formation of a subcommittee to support the CRC.

COMMITTEE HISTORY AND COMPOSITION

Committee History

By the mid-1980s, there was a broader range of issues than ever facing urban transportation planners. State and local planning agencies had to be resourceful in adapting existing planning procedures to fit specific needs. Often, planning methods or data was not available when needed to adequately support planning and project decisions. Compromises between accuracy, practicality, simplicity, quicker response, and professional judgment often resulted in innovative analysis methods and applications. State DOTs were seeking a venue for the sharing of applications and analysis experiences that could immediately be used by other agencies in meeting the planning demands of the day. TRB and FHWA agreed to support a planning focused conference outside the traditional Annual Meeting to foster this exchange. Subsequently, the first National Conference on Transportation Planning Applications was held in Orlando, Florida from April 20-24, 1987. The conference was dominated by practicing planners from State and local agencies, and the consulting community who described the application of planning techniques to actual transportation problems and issues (Brown and Weiner, 1987).

The original Conference Steering Committee was formed in April 1985 to select the site, contact speakers, make arrangements with the hotel, and invite the participants. The first conference had

275 participants. The Conference Steering Committee became a TRB Task Force on Transportation Planning Applications on October 23, 1987 (A1C52) and was disbanded on January 1, 1991 and became a TRB Standing Committee on February 1, 1991 (A1C07). The committee is currently identified as the Standing Committee for Transportation Planning Applications (ADB50).

Conferences have been held in the following locations:

- Peabody Hotel Orlando, Florida April 1987
- Grosvenor Resort Orlando, Florida April 1989
- Hyatt Dallas, Texas April 1991
- Marriott Hotel Daytona Beach, Florida April 1993
- Sheraton Seattle, Washington April 1995
- Hyatt Dearborn, Michigan May 1997
- Park Plaza Boston, Massachusetts March 1999
- Omni Bayfront Corpus Christi, Texas April 2001
- Radisson Baton Rouge, Louisiana April 2003
- Double Tree Portland, Oregon April 2005
- Hilton Daytona Beach, Florida May 2007
- Hyatt Regency Houston, Texas May 2009
- Peppermill Resort Reno, Nevada May, 2011
- Hyatt Columbus, Ohio May, 2013
- Sheraton Atlantic City, New Jersey, May, 2015
- Sheraton Raleigh, North Carolina, May 2017

The Committee and the transportation planning community owe a debt of thanks to several important colleagues who set the foundation for the successful conference series TRBAppCon has become. Fred Ducca, Ed Weiner, Jerry Faris, Gordon Shunk and Richard Marshment were all involved from the beginning. Jerry and Richard still support the work they helped start over 30 years ago by serving as emeritus-at-large and emeritus members of ADB50. Many of the friends of ADB50 include colleagues who were around in the early years of TRBAppCon and have also continued to support by presenting, moderating, reviewing papers and abstracts and generally helping to continue to execute this conference with 100% volunteer support.

Current Committee Organization and Membership

Membership Overview: The committee membership consists of a diverse group of people. Of the 34 members, 10 are women, 7 represent minority populations and 4 are from foreign countries. In addition to the regular membership, ADB50 also has 3 emeritus members, one of whom is a woman, and 3 young members.

Geographic and Professional Membership Summary:

Eastern	12	Central	7
Western	11	International	4

State Government	6	Federal Government	2
Education	7	Private Sector	12
Local Government	7	Nonprofit/Other	0

ADB50 Friends: ADB50 has long been fortunate to have a robust roster of committee friends. Currently, MyTRB.org reports 212 friends associated with ADB50. Many of these are regular participants in the Transportation Planning Applications Conference as well as former committee members. The Conference provides such a unique opportunity for professionals to engage on such a variety of levels; presenting, coordinating, attending, participating, etc. This friends list is very active and frequently utilized to identify Conference assistants to serve as moderators, assistant moderators and help with other miscellaneous activities.

ADB50 Subcommittees: The Committee does not have a formal subcommittee. However for each planning applications conference, a special subcommittee is formed to handle the specific tasks needed to organize each applications conference. The conference chair serves as the Subcommittee chair and the ADB50 membership as the Subcommittee membership. Additional members related to the local host agency are sometimes added to the Subcommittee when needed. For the 2017 Planning Applications Conference, Erin Morrow is the Conference Chair and Subcommittee Chair. A subcommittee meeting is held at each TRB Annual Meeting to allow for detailed planning in the year when a conference is to be held (for example 2017) and in the off year to discuss the outcomes of the conference for possible change and improvement at the next event. As noted above, consideration will be given to the formation of a new subcommittee to assist the CRC in bringing applied planning research forward from the discussions at TRBAppCon every other year.

Interaction with Other TRB Committees, Organizations, and Customers

Liaison with other TRB Committees: The following list represents those members of ADB50 who are also members of other TRB Committees. Through their membership on both committees they provide a link to/from ADB50. This list is ever changing and will be updated as necessary/annually.

<u>Number</u>	<u>Name</u>	<u>Liaison</u>
ADA10	Statewide Transportation Planning	(Wade and Mescher)
ADA30	Small & Medium Size Cities	(Wade and Thompson-Graves)
ABJ30	Urban Transportation Data	(Rohne and Elsayed)
ABJ45T	NHTS Task Force	(Mescher and Zhang)
ABE20	Transportation Economics	(Marshment)
ADB45	Travel Forecasting Resources	(Sall, Bernardin, Dunbar)
AHB35	Managed Lanes	(Wood)
ABE80	Native American Transportation Issues	(Wade)
ADB00	Travel Analysis Methods	(Dunbar)
ABJ10	National Data	(Giaino)
ABJ40	Travel Survey Methods	(Roux and Huegy)

ADB40	Transportation Demand Forecasting	(Roux and Milkovits)
ADB10	Travel Behavior and Values	(Milkovits and Rodriguez)
ADA20	Metropolitan Policy, Planning and Process	(Hazlett and Roux)
	Younger Member Committee	(Nichols)

Other Agency Liaison: Through participation and support of the Transportation Planning Applications Conferences, ADB50 maintains liaisons with the American Association of State Highway and Transportation Professionals (AASHTO), the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), and the Zephyr Foundation. These agencies provide opportunities for sponsorship, information sharing and innovative mechanisms for advancing the state of the practice.

Shared Committee Activities: The Committee exchanges information on cross-cutting issues through the development and dissemination of biennial conference information. In addition, the Committee teamed with several TRB committees to start an interactive technical exchange session at the annual meeting in which real world problems were solved. The issues crossed over between many areas of transportation and brought together some of the strongest minds in the industry. This led to outstanding information exchange of ideas with hopes of generating additional research statements. This also allowed ADB50 to put some of the problem solving ideas into action to form solutions for the real problems discussed at the workshop. As the opportunity to repeat the Analyze This! workshop format are available, the Committee hopes to continue to track the problems and solutions and utilize this means for reaching out to different audiences.

Business Meeting Attendance (information from the most recent meeting)

ADB50 Annual Meeting: The annual business meeting (2017) held on January 10, 2017 during the TRB Annual Meeting had attendance of:

Members	24	Guests	21
---------	----	--------	----

ADB50 Conference Planning Subcommittee Meeting: The annual business meeting (2017) of the subcommittee was held on January 9, 2017 during the TRB Annual Meeting and had attendance of:

Members	20	Guests	15
---------	----	--------	----

ADB50 Fall Planning Meeting: ADB50 holds a fall planning meeting during the year immediately preceding the biennial conference year. Most recently this meeting was held on October 29, 2016 in Raleigh, NC, the site of the 2017 conference, for the purposes of planning the technical program for the 16th Conference on Transportation Planning Applications with attendance of:

Members	13	Guests	0.
---------	----	--------	----

Technology Transfer Activities for Colleagues and Customers

Papers for Publication: A subset of papers to be presented at the 2017 TRB Annual Meeting have been accepted for publication through the TRR publication process. They are listed in Table 1.

Dissemination of Conference Materials: Following each Transportation Planning Applications Conference, ADB50 selects the best presentations from the Conference and encourages presenters to prepare a paper for consideration at the TRB Annual Meeting the next year. These best presentations/papers make up at least one ADB50 sponsored session at the Annual Meeting. In addition, the committee website (www.trbappcon.org) is available and widely used for both the planning of the conference and dissemination of presentations and abstracts after the conference. Presentations from several past conferences are also available on the committee website.

Workshop Activities: The first day of each Planning Applications Conference begins with a series of workshops. For 2017, the workshops will be based on topics submitted for the call for abstracts from the transportation planning community and vetted by the ADB50 Program Subcommittee. ADB50 is committed to carrying the true ‘work’ shop experience demonstrated by Analyze This! at the 2016 Annual Meeting into the Sunday Workshops planned for the Planning Applications Conferences. Workshops will be interactive and focused on key topics like **data**, scenario planning, **dynamic network modeling**, **automated and connected vehicles** and sensitivity/uncertainty in travel forecasting. Workshops are an important part of the Planning Applications Conference agenda and will continue into future conferences.

Conference Plans: The Committee will hold the 16th Conference on Transportation Planning Applications in May 2017 in Raleigh, NC. Planning for the 17th Conference is underway with Minneapolis/St. Paul and Phoenix under consideration as prospective venues.

Other Communication Activities: ADB50 maintains a web page that contains Committee sponsored information. Included on the web page is information about future conferences and a compendium of abstracts, presentations and papers from previous conferences. In addition, ADB50 launched the use of a Conference Mobile App at the 2015 Planning Applications Conference and has plans to enhance the functionality of the App for use during the upcoming 2017 Conference. The App enhanced attendee communication and **networking**, provided opportunities for real time feedback during sessions, allowed for more in depth and immediate user surveys and real time program updates and announcements. It was an important part of the 2015 Conference success and is anticipated to continue to play an ever-increasing role at future Conferences.

Research Needs and Problem Statements

The Committee is considering conducting research needs statements (RNSs) and has been supporting other committees in making sure their RNSs consider the needs of practitioners. In 2016, the Committee co-sponsored a Synthesis Research Need on Joint Use of Travel Demand and Economic Impact Models and in 2012 the Committee co-sponsored a RNS on Establishing Application and Policy Sensitivity Guidelines in Travel Demand Models.

Each year, the Committee Research Coordinator (currently a position held by committee member Elizabeth Sall) provides a research reminder and update at the Committee Meeting at the TRB Annual Meeting that summarizes the Cooperative Research Program (CRP) process, ongoing and recently completed research of note to the Committee, upcoming CRP participation opportunities, currently unfunded RNS of note, RNS collaboration opportunities, and research implementation assistance opportunities.

In addition, the 2016 Annual Meeting workshop Analyze This! (described previously) aimed to identify possible research needs for solving the three “planning mysteries.” In the end, none of the needs identified at the 2016 workshop mandated action by ADB50 research leadership; rather, individuals were assigned to follow up with a more appropriate research venue. Follow up actions included adding the findings from the workshop to an existing research need developed by a different committee as well as advocating for a different organization (in this case, NACTO) to take on the publication of a specific topic.

Methods for Identifying and Selecting Research Needs: Ideas and requests at the Annual Meeting get discussed during the committee meeting. Then if needed a smaller research subcommittee is formed by the ADB50 CRC and Committee Chair to vet and provide relevant information to other committees. See also the GitHub Repository formed for the “Analyze This” workshop at the 2016 TRB Annual Meeting for more information on how ADB50 hopes to encourage practical research needs statements. [<http://adb50.github.io/research-needs>] Consideration will be given to the formation of a special subcommittee following TRBAppCon to support identification of research based on conference discussions and presentations.

Existing Research Needs Statements (RNS): The TRB RNS database does not currently contain any RNS generated by ADB50. However, Research Needs identified at the Annual Meeting, biennial Conference and by other interested parties are brainstormed and developed in real-time using GitHub: <http://adb50.github.io/research-needs/>

General Remarks and Comments Offered by the Committee

The current title and function of ADB50 continues to be relevant and provide substantial resource and benefit to the transportation planning community both in and outside of TRB. As such, ADB50 was recognized and awarded the **Blue Ribbon Award** by TRB at the 2016 Annual Meeting for ‘**Contributing to TRB and the Transportation Community Category for ‘Planning and Organizing the Transportation Planning Applications Conference.’** This is a great honor for the membership of ADB50, past and present. The TRB Transportation Planning Applications Conference continues to be a well attended opportunity for professionals and academics at all levels to come together to learn and share ideas and strategies for solving the emerging problems of the day. No change in function or form for ADB50 is suggested at this time.

However, the Committee notes that the economy continues to play a significant role in the success of the biennial Transportation Planning Applications conference. Public agencies are finding it necessary to limit the travel and conference budgets within their organizations.

ADB50 has attempted to offset this with the provision of honorariums available to qualified public sector candidates in order to provide assistance with travel and registration expenses. The ongoing success of this conference can be linked to the networking opportunities provided across all sectors of the transportation planning field (public agency, private sector, government and education). ADB50 will continue to seek partners (vendors, sponsors, contributors) to provide this financial assistance in hopes of maintaining this broad base of participation into the future.

Table 1: Papers for Publication, January 2017 TRB Annual Meeting

Paper Number	Title	Corresponding Author	Co-Authors
17-06082	Taxonomy of Shared Autonomous Vehicle Fleet Management Problems to Inform Future Transportation Mobility	Mahmassani, Hani / Northwestern University	Hyland, Michael / Northwestern University Mahmassani, Hani / Northwestern University
17-03115	Incorporating Equity and Resilience in Municipal Transportation Planning: Case Study of Mobility Hubs in Oakland, California	Cheah, Kit Ho Derek / University of California, Berkeley	Cheah, Kit Ho Derek / University of California, Berkeley Levitt, Drew / University of California, Berkeley Blanchard, Samuel / University of California, Berkeley Anderson, Karl / University of California, Berkeley
17-00513	Integration of National Long-Distance Passenger Travel Demand Model with Tennessee Statewide Model and Calibration to Big Data	Bernardin, Vincent/ RSG	Bernardin, Vincent/ RSG Ferdous, Nazneen/ CH2MHILL Sadrsadat, Hadi / University of Maryland, College Park Trevino, Steven Chen, Chin-Cheng / Tennessee Department of Transportation
17-06602	Evidence-Based Transit and Land Use Sketch Planning Using Interactive Accessibility Methods on Combined Schedule and Headway-Based Networks	Wigginton Conway, Matthew / Conveyal	Wigginton Conway, Matthew / Conveyal Byrd, Andrew / Conveyal van der Linden, Marco / Movares Group BV
17-00773	Transit Access Measure: Incorporating Walk and Drive Access	Gillespie, William / Regional Transportation Authority (Chicago)	Gillespie, William / Regional Transportation Authority (Chicago) Fahrenwald, Peter / Regional Transportation Authority (Chicago)
17-06364	UrbanAccess: Generalized Methodology for Measuring Regional Accessibility with an Integrated Pedestrian and Transit Network	Blanchard, Samuel / University of California, Berkeley	Blanchard, Samuel / University of California, Berkeley Waddell, Paul / University of California, Berkeley

Table 1: Papers for Publication, January 2017 TRB Annual Meeting (Con't.)

Paper Number	Title	Corresponding Author	Co-Authors
17-06839	When the Tides Come, Where Will We Go? Modeling the Impacts of Sea-Level Rise on Greater Boston's Transport and Land Use System	Han, Yafei / Massachusetts Institute of Technology	Han, Yafei / Massachusetts Institute of Technology Zegras, P. Christopher / Massachusetts Institute of Technology Rocco, Victor / Catholic University of Chile Dowd, Michael / DataKind Murga, Mikel / MIT
17-05624	Assessing the Impact of Network Resolution and Origin-Destination Aggregation on the Stability of Transportation Network Criticality Rating	Dowds, Jonathan / University of Vermont	Dowds, Jonathan / University of Vermont Sentoff, Karen / University of Vermont Sullivan, James / University of Vermont Aultman-Hall, Lisa / University of Vermont
17-01815	Closing the Induced Vehicle Travel Gap Between Research and Practice	Milam, Ronald / Fehr & Peers	Milam, Ronald / Fehr & Peers Ganson, Christopher/California Governor's Office Birnbaum, Marc / California Department of Transportation (CALTRANS) Handy, Susan / University of California, Davis Walters, Jerry / Fehr & Peers

Table 1: Papers for Publication, January 2017 TRB Annual Meeting (Con't.)

Paper Number	Title	Corresponding Author	Co-Authors
17-05112	Delays, Detours, and Diversions: Paths to Fully Executed Safe Routes to School Projects	DiPetrillo, Stephanie / Rutgers, The State University of New Jersey	DiPetrillo, Stephanie / Rutgers, The State University of New Jersey Von Hagen, Leigh Ann Malone, Sara / Rutgers, The State University of New Jersey Meehan, Sean / Alan M. Voorhees Transportation Center Shivaraman, Gayathri / Alan M. Voorhees Transportation Center
17-03787	Countywide Planning Framework to Identify Continuous and Connected Multimodal Arterial Networks	Wu, Daniel / Alameda County Transportation Commission	Suthanthira, Saravana / Alameda County Transportation Commission Wu, Daniel / Alameda County Transportation Commission Ridgway, Matthew Martin, Francisco / Fehr & Peers
17-00289	Travel and the Built Environment: Insights from Sprawl Index and Neighborhood Types	Ralph, Kelcie / Rutgers, The State University of New Jersey	Ralph, Kelcie / Rutgers, The State University of New Jersey Voulgaris, Carole / University of California, Los Angeles Brown, Anne

Appendix A: Annual Reports of Committee Activities (2013, 2014, 2015)

**TRB PLANNING AND ENVIRONMENT GROUP
Annual Report of Committee Activities**

Committee Name and Number: Transportation Planning Applications (ADB50)

Committee Chair: Ms. Barbara J. Arens

Year: 2013

1. Current Committee Scope: This committee is concerned with the application of new or improved transportation planning methods and techniques and their practical application at the regional, corridor, and site level of analysis.

2. Committee Membership

A. Number of members at current time.

1. Total 28 (*does not include young and emeritus members*)

2. Young 4

3. Emeritus 3

4. International 3

3. Paper Review:

A. Number of papers reviewed during the last year: 28

B. Number of papers recommended for publication: 5

4. Annual Meeting Sessions Sponsored (*Lists of sessions for the last year are attached.*)

A. Number of paper or conference sessions at the last annual meeting: 2

B. Number of workshop sessions at the last annual meeting: 0

C. Number of poster sessions at the last annual meeting: 1

- D. Number of co-sponsored sessions at the last annual meeting: 1
- E. Number of published meetings at the last annual meeting: 2
- F. Number of unpublished meetings at the last annual meeting: 0

5. Research Problem Statements

<http://trb.org/InformationServices/Public/ResearchNeedsStatementsRNS.aspx>

- A. Number of problem statements submitted last year 0

6. List of Critical and Cross-Cutting Issues (*Issues the committee plans to address are attached.*)

7. Other Activities Sponsored During the Last Year:

8. Appendix – Annual Meeting Sessions:

ADB50 - Transportation Planning Applications

Paper or Conference Session (S)s

336 (KFS15-013)

Monday, January 12, 2015, 1:30pm- 3:15pm, Convention Center, 146B

Transportation Planning Applications: It's all about the Data!

Charles Gorugantula, Mid-America Regional Council; Katherine Haire, HDR, Inc.,
presiding

Sponsored by Committee on Transportation Planning Applications

**Multiple Attribute and Stakeholder Method for Traffic Project Evaluation and
Decision Making** (15-1630)

Xin Yu, University of Hawaii, Manoa

Panos D. Prevedouros, University of Hawaii, Manoa

**Activity Space of Older and Working-age Adults in the Puget Sound Region,
Washington** (15-1772)

Sungyop Kim, University of Missouri, Kansas City

Gudmundur Freyr Ulfarsson, University of Iceland

Exploratory Analysis of a Smartphone-Based Travel Survey in Singapore (15-4343)

Fang Zhao, Singapore-MIT Alliance for Research and Technology

Francisco C. Pereira, Massachusetts Institute of Technology

Rudi Ball, Massachusetts Institute of Technology

Youngsung Kim, Massachusetts Institute of Technology

Yafei Han, Massachusetts Institute of Technology

P. Christopher Zegras, Massachusetts Institute of Technology

Moshe E. Ben-Akiva, Massachusetts Institute of Technology

Simultaneous Travel Model Estimation from Survey Data and Traffic Counts (15-5905)

Vincent L. Bernardin, RSG

Steven Trevino, RSG

Greg Slater, Michiana Area Council of Governments

John P. Gliebe, RSG

674 (KFS15-014)

Tuesday, January 13, 2015, 3:45pm- 5:30pm, Convention Center, 146B

Transportation Planning Applications: Trips or Tours, Spaces or Places, Directions or Connections – It’s all about the Models!

Keith L. Killough, Arizona Department of Transportation; David L. Kurth, Cambridge Systematics, Inc., presiding

Sponsored by Committee on Transportation Planning Applications

Intrazonal Trip Distances: An Estimation Approach and Application to a Case Study (15-0383)

Antonio Nelson Rodrigues da Silva, University of Sao Paulo, Brazil

Conrado Vidotte Plaza, University of Sao Paulo, Brazil

Effects of Built Environment on Activity Spaces as Transportation Equity Indicator (15-3511)

Na Chen, Ohio State University

Gulsah Akar, Ohio State University

Comprehensive Validation of Activity-Based Model: Experiences from Houston-Galveston Area Council’s Activity-Based Model Development (15-4275)

Marty Milkovits, Cambridge Systematics, Inc.

Arun Reddy Kuppam, Cambridge Systematics, Inc.

David L. Kurth, Cambridge Systematics, Inc.

Thomas F. Rossi, Cambridge Systematics, Inc.

Street Connectivity Versus Street Widening: Impact of Enhanced Street Connectivity on Traffic Operations in Transit-Supportive Environments (15-4642)

Ivana Milorad Tasic, University of Utah

Milan Zlatkovic, University of Utah
Peter T. Martin, New Mexico State University
Richard Jon Porter, University of Utah

Tour Characterization Framework Incorporating Activity Stop-Sequencing Model System (15-6047)

Venu Madhav Garikapati, Arizona State University
Daehyun You, Arizona State University
Ram M. Pendyala, Georgia Institute of Technology
Kyunghwi Jeon, Maricopa Association of Governments
Vladimir Livshits, Maricopa Association of Governments
Peter Vovsha, PB Americas, Inc.

Poster Session (P)s

442 (KFP15-005)

Monday, January 12, 2015, 4:15pm- 6:00pm, Convention Center, Hall E

Transportation Planning Applications: Tips and Tools

Joe Huegy, North Carolina State University, Raleigh; Jill Hough, North Dakota State University, presiding

Sponsored by Committee on Transportation Planning Applications

Transit Commuting and the Built Environment in Station Areas Across the United States (15-1966)

John L. Renne, University of New Orleans
Reid Ewing, University of Utah
Shima Hamidi, University of Utah

Measuring Effects of Traffic Congestion on Fuel Consumption (15-2087)

Alvaro Garcia-Castro, Technical University of Madrid, Spain
Andres Monzon, Universidad Polytechnica de Madrid, Spain

Proof-of-Concept for Methodological Framework to Evaluate Operational Strategies with Travel Demand Models (15-2633)

Jiaqi Ma, University of Virginia
Changju Lee, University of Virginia
Michael J. Demetsky, University of Virginia

Are Microsimulation Models Random Enough? Comparison of Modeled and Observed Stochasticity (15-5789)

John Shaw, University of Wisconsin, Madison
David A. Noyce, University of Wisconsin, Madison

Origin-Destination Trip Estimation from Anonymous Cell Phone and Foursquare Data (15-2379)

Rokib S A, University of Alberta, Canada
Md. Ahsanul Karim, University of Alberta, Canada
Tony Z. Qiu, University of Alberta, Canada
Amy M. Kim, University of Alberta, Canada

TraClus-DL: Desire Line Clustering Framework to Identify Demand Corridors (15-3508)

Kinan Bahbouh, Polytechnique Montreal, Canada
James R. Wagner, McGill University, Canada
Catherine Morency, Polytechnique Montreal, Canada
Chantal Berdier, Institut National des Sciences Appliquees de Lyon, France

Verification of Trip Generation and Trip Internalization Estimation Procedures for Mixed-Use Developments (15-4881)

Aldo Fabregas, Florida Institute of Technology
Pei-Sung Lin, University of South Florida
Vivek Koneru, University of South Florida
Brian Stephen Bochner, Texas A&M Transportation Institute
Karen E. Seggerman, University of South Florida
Abdul Rawoof Pinjari, University of South Florida

Published Meeting - Committee (M)s

KFM15-024

Tuesday, January 13, 2015, 1:30pm- 3:15pm, Marriott Marquis, Monument (M4)

Transportation Planning Applications Committee

Barbara J. Arens, Parsons Brinckerhoff Michigan Inc., presiding
Sponsored by Committee on Transportation Planning Applications

KFM15-030

Tuesday, January 13, 2015, 8:00am- 9:45am, Marriott Marquis, Monument (M4)

Transportation Planning Applications Conference Planning Subcommittee, ADB50(1)

Patrick Coleman, AECOM, presiding
Sponsored by Committee on Transportation Planning Applications

ADB50 Cosponsored Sessions (only editable by the primary committee sponsor)

KFW15-004

Sunday, January 11, 2015, 1:30pm- 4:30pm, Convention Center, 156

Revisiting Model Validation: An Assessment of Needs and New Opportunities

Maya Abou-Zeid, American University of Beirut, Lebanon; Thomas F. Rossi, Cambridge Systematics, Inc.; Aruna Sivakumar, Imperial College London, United Kingdom, presiding

In light of the recent advances in travel demand modeling techniques, this workshop aims to bring together academicians and practitioners to discuss model validation. The objectives of this workshop are two-fold: (a) to review best practices, including newer practices not yet in wide use, in validation methods ranging from simple stand-alone model components to full model systems; (b) to discuss new validation opportunities made possible by technology-enabled and social-media based data sources.

Welcome and Workshop Overview (P15-6038)

Maya Abou-Zeid, American University of Beirut, Lebanon
Thomas F. Rossi, Cambridge Systematics, Inc.
Aruna Sivakumar, Imperial College London, United Kingdom

Travel Forecasting: Science, Craft, or Astrology? (P15-6039)

David T. Hartgen, The Hartgen Group
Ram M. Pendyala, Georgia Institute of Technology

Model Validation: Let's Say It Like We Really Mean It! (P15-6040)

Ken Cervenka, Federal Transit Administration

Model Uncertainty: Why All Travel Models Are Wrong and What To Do about It? (P15-6041)

Kara Kockelman, University of Texas, Austin
Jason Lemp, Cambridge Systematics, Inc.

Exploring Travel Behavior Using Big-Data: the Case of the Santiago Transit System (P15-6042)

Marcela A. Munizaga, Universidad de Chile

Validation and Application Issues of the Tel-Aviv Activity-Based Model (P15-6043)

Yoram Shiftan, Technion - Israel Institute of Technology

Comprehensive Validation of Activity-Based Models (P15-6044)

Marty Milkovits, Cambridge Systematics, Inc.
Arun Reddy Kuppam, Cambridge Systematics, Inc.
David L. Kurth, Cambridge Systematics, Inc.
Thomas F. Rossi, Cambridge Systematics, Inc.

Validation Using Secondary Sources: Lessons Learned from Recent Activity-Based Model Validations (P15-6045)

Rosella Picado, PB Consult, Inc.

Lawyers, Big Data, (More Lawyers), and a Potential Validation Source: Obtaining

Smart Card and Toll Tag Transaction Data (P15-6046)

David Ory, Metropolitan Transportation Commission

A European Perspective on Model Validation: Experiences from Austria (P15-6354)

Martin Fellendorf, Graz University of Technology, Austria

The Effects of Changing Priorities for Modeling on Validation (P15-6047)

Brian Gardner, Federal Highway Administration

General Discussion and Next Steps (P15-6048)

Maya Abou-Zeid, American University of Beirut, Lebanon

Thomas F. Rossi, Cambridge Systematics, Inc.

Aruna Sivakumar, Imperial College London, United Kingdom

TRB PLANNING AND ENVIRONMENT GROUP Annual Report of Committee Activities

Committee Name and Number: Transportation Planning Applications (ADB50)

Committee Chair: Ms. Barbara J. Arens

Year: 2014

1. Current Committee Scope: This committee is concerned with the application of new or improved transportation planning methods and techniques and their practical application at the regional, corridor, and site level of analysis.

2. Committee Membership

B. Number of members at current time.

1. Total 28 (*does not include young and emeritus members*)

2. Young 4

3. Emeritus 3

4. International 3

3. Paper Review:

C. Number of papers reviewed during the last year: 45

D. Number of papers recommended for publication: 9

4. Annual Meeting Sessions Sponsored (*Lists of sessions for the last year are attached.*)

A. Number of paper or conference sessions at the last annual meeting: 2

B. Number of workshop sessions at the last annual meeting: 0

C. Number of poster sessions at the last annual meeting: 1

D. Number of co-sponsored sessions at the last annual meeting: 1

E. Number of published meetings at the last annual meeting: 2

F. Number of unpublished meetings at the last annual meeting: 0

5. **Research Problem Statements** (*Problem statements submitted in last year are attached.*)
<http://trb.org/InformationServices/Public/ResearchNeedsStatementsRNS.aspx>
 - A. Number of problem statements submitted last year 0
6. **List of Critical and Cross-Cutting Issues** (*Issues the committee plans to address are attached.*)
7. **Other Activities Sponsored During the Last Year:**
8. **Appendix – Annual Meeting Sessions:**

ADB50 - Transportation Planning Applications

Paper or Conference Session (S)s

240 (KFS14-021)

Monday, January 13, 2014, 8:00am- 9:45am, Hilton, Columbia Hall 6

Modeling Applications

Elizabeth Sall, San Francisco County Transportation Authority; Nicholas S. Wood, Texas A&M Transportation Institute, presiding
Sponsored by Committee on Transportation Planning Applications

Encapsulating and Visualizing Disaggregated Origin-Destination Desire Lines to Identify Demand Corridors (14-4562)

Kinan Bahbouh, Polytechnique Montreal, Canada
Catherine Morency, Polytechnique Montreal, Canada

Development of Vehicle Fleet Composition Model System for Implementation in Activity-Based Travel Model (14-4236)

Daehyun You, Arizona State University
Venu Madhav Garikapati, Arizona State University
Ram M. Pendyala, Georgia Institute of Technology
Chandra R. Bhat, University of Texas, Austin
Subodh Dubey, University of Texas, Austin
Kyunghwi Jeon, Maricopa Association of Governments

[Vladimir Livshits](#), Maricopa Association of Governments

Wildfire Evacuation Scenario in Colorado: Comparison of Adapted Four-Step Metropolitan Planning Organization Modeling Results and Planning Process Findings with Actual Experience (14-1355)

[Maureen Paz de Araujo](#), HDR Engineering, Inc.

[Mary R. Lupa](#), Parsons Brinckerhoff

[Craig T. Casper](#), Pikes Peak Area Council of Governments

[Bret Waters](#), City of Colorado Springs

Choice Set Generation Algorithm Suitable for Measuring Route Choice

Accessibility (14-4660)

[Neema Nassir](#), University of Queensland, Australia

[Jennifer Ziebarth](#), Fehr & Peers Transportation Consultants

[Elizabeth Sall](#), San Francisco County Transportation Authority

[Lisa Zorn](#), San Francisco County Transportation Authority

Making Advanced Travel Forecasting Models Affordable Through Model

Transferability (14-2534)

[John L. Bowman](#), Bowman Research and Consulting

[Mark Bradley](#), RSG

[Joseph Castiglione](#), Resource Systems Group, Inc

[Supin Li Yoder](#), Federal Highway Administration

291 (KFS14-022)

Monday, January 13, 2014, 10:15am-12:00pm, Hilton, Columbia Hall 6

Modeling Data

[Scott Smith](#), Volpe National Transportation Systems Center; [Elizabeth R. Amar](#), CDM Smith, presiding

Sponsored by Committee on Transportation Planning Applications

Development of Tour-Based Truck Travel Demand Model Using Truck GPS

Data (14-4293)

[Arun Reddy Kuppam](#), Cambridge Systematics, Inc.

[Jason Lemp](#), Cambridge Systematics, Inc.

[Daniel F. Beagan](#), Cambridge Systematics, Inc.

[Vladimir Livshits](#), Maricopa Association of Governments

[Lavanya Vallabhaneni](#), Maricopa Association of Governments

[Sreevatsa Nippani](#), Maricopa Association of Governments

Creating CountDracula: Open Source Count Management Tool (14-4625)

[Daniel Tischler](#), San Francisco County Transportation Authority

[Lisa Zorn](#), San Francisco County Transportation Authority

[Elizabeth Sall](#), San Francisco County Transportation Authority

Validation of Origin-Destination Data from Bluetooth Reidentification and Aerial

Observation (14-0223)

[Madhav V. Chitturi](#), University of Wisconsin, Madison

[John Shaw](#), University of Wisconsin, Madison

[John R Campbell](#), Traffic Analysis & Design, Inc.

[David A. Noyce](#), University of Wisconsin, Madison

Modeling Cyclists' Route Choice Based on GPS Data (14-4466)

[Jeffrey Casello](#), University of Waterloo, Canada

[Vladimir Usyukov](#), University of Waterloo

Reconciliation of Regional Travel Model and Passive Device Tracking Data (14-1058)

[Leta F. Huntsinger](#), Parsons Brinckerhoff

[Rick Donnelly](#), Parsons Brinckerhoff

Poster Session (P)s

777 (KFP14-007)

Wednesday, January 15, 2014, 8:30am-10:15am, Hilton, International Center

Transportation Planning Applications

[Nazrul Islam](#), Federal Transit Administration; [Patrick Coleman](#), AECOM, presiding

Sponsored by Committee on Transportation Planning Applications

Assessing the Impact of Transportation Policies on Fuel Consumption and Greenhouse Gas Emissions Using a Household Vehicle Fleet Simulator (14-4896)

[Rajesh Paleti](#), Old Dominion University

[Chandra R. Bhat](#), University of Texas, Austin

[Ram M. Pendyala](#), Georgia Institute of Technology

[Konstadinos G. Goulias](#), University of California, Santa Barbara

[Thomas Jay Adler](#), RSG

[Aniss Bahreinian](#), California Energy Commission

Cost-effectiveness Sketch Method for Safety Investment Decision Making (14-5103)

[Daniel Wu](#), Cambridge Systematics

[Elizabeth Wemple](#), Cambridge Systematics, Inc.

Estimating Emissions Benefits of Bicycle Facilities with Stand-Alone Software Tools: Incremental Nested Logit Analysis of Bicycle Trips in California's Monterey Bay Area (14-0965)

[Jeffrey Hood](#), Hood Transportation Consulting

[Gregory D. Erhardt](#), UCL (University College London)

[Christopher Frazier](#), Parsons Brinckerhoff

[Anais Schenk](#), Association of Monterey Bay Area Governments

Automated Optimal Balancing of Traffic Volume Data for Large Access-Controlled Highway Networks and Freeway-to-Freeway Interchanges (14-3565)

[John Shaw](#), University of Wisconsin, Madison

[David A. Noyce](#), University of Wisconsin, Madison

Statistical Analysis of Transit User Preferences Including In-Vehicle Crowding and Service Reliability (14-4953)

[Peter Vovsha](#), PB Americas, Inc.

Effective Coupling of Signal Timing Estimation Model and Dynamic Traffic Assignment in Feedback Loops: System Design and Case Study (14-4957)

[Milan Zlatkovic](#), University of Utah

[Xuesong Zhou](#), Arizona State University

Cleveland GPS Household Travel Survey: Survey Design and Secondary Uses of Data (14-5068)

[Jeremy Alexander Wilhelm](#), Westat Inc.

Comparing Travel Behavior Between Transit-Oriented Developments and Automobile-Oriented Developments: Matched Pair Analysis (14-2327)

[Sanghoon Son](#), Jeju Development Institute

[Asad J. Khattak](#), University of Tennessee, Knoxville

[Keechoo Choi](#), Ajou University, South Korea

Development and Use of 700-mi² Dynamic Traffic Assignment Model for Corridor Maintenance Traffic Decision Making (14-3816)

[Sarah Elizabeth Binkowski](#), Parsons Brinckerhoff

[James Hicks](#), Parsons Brinckerhoff

Commercial Vehicle Road Pricing: Lessons Learned in Southern California (14-3957)

[Sashank Musti](#), Cambridge Systematics, Inc.

[Anurag Komanduri](#), Cambridge Systematics, Inc.

[Kimon Proussaloglou](#), Cambridge Systematics, Inc.

Linking Land Form and Development Location to Multimodal Travel Demand: Case Studies of Transportation and Land Use Studies in Delaware (14-4397)

[Scott Michael Thompson-Graves](#), Whitman, Requardt & Associates, LLP

[Michael DuRoss](#), Delaware Department of Transportation

[Earl Lee](#), University of Delaware

[Sara E Patterson](#), University of Delaware

[Eric Sundquist](#), State Smart Transportation Initiative

[Bill Holloway](#), State Smart Transportation Initiative

Driving Smart: Carsharing Mode Splits and Trip Frequencies (14-4009)

[Katherine Kortum](#), Transportation Research Board

Determining Free-Flow Speeds in Regional Travel Demand Model Based on Highway Capacity Manual (14-0426)

[Chao Wang](#), North Carolina State University, Raleigh

[Joe Huegy](#), North Carolina State University, Raleigh

Construction Alternative Screening with Regional Travel Demand Model (14-0287)

[Marty Milkovits](#), Cambridge Systematics, Inc.

[Dan Tempesta](#), Cambridge Systematics, Inc.

Development of a Statewide Freight Trip Forecasting Model for Utah (14-3859)

[Kaveh Shabani](#), Resource Systems Group, Inc

[Chad Worthen](#), Resource Systems Group, Inc

[Maren L. Outwater](#), RSG

[M. Walter Walter Steinvorth](#), Utah Department of Transportation

[Traffic Information Management System](#) (14-0628)

[Asheque Rahman](#), New York City Office of Emergency Management

[Building Open-Source Tools to Perform Quality Control Checks on Transit](#)

[Onboard Survey Data](#) (14-0749)

[Andrew Rohne](#), Ohio-Kentucky-Indiana Regional Council of Governments

Published Meeting - Committee (M)s

KFM14-024

Monday, January 13, 2014, 3:45pm- 5:30pm, Hilton, Columbia Hall 1

[Transportation Planning Applications Committee](#)

[Barbara J. Arens](#), Parsons Brinckerhoff Michigan Inc., presiding

Sponsored by Committee on Transportation Planning Applications

Committee meeting overview of activities; including a summary of the Columbus Transportation Planning Applications Conference from May 2013 and the planning for the future 2015 conference, in addition to other on-going committee activities.

KFM14-030

Monday, January 13, 2014, 1:30pm- 3:15pm, Hilton, Cardozo

[Transportation Planning Applications Conference Planning Subcommittee,](#)

[ADB50\(1\)](#)

[Patrick Coleman](#), AECOM; [Erin M. Morrow](#), Metropolitan Washington Council of Governments; [Barbara J. Arens](#), Parsons Brinckerhoff Michigan Inc., presiding

Sponsored by Committee on Transportation Planning Applications

Planning of the 15th Transportation Planning Applications Conference in Atlantic City, NJ. Discussion of first year conference planning activities: including evaluation of 14th Columbus Conference; abstract format and advertising, website, and beginning conference planning.

ADB50 Cosponsored Sessions (only editable by the primary committee sponsor)

KFW14-004

Sunday, January 12, 2014, 9:00am-12:00pm, Hilton, Columbia Hall 8

[The Next 50 Years in Travel Analysis: What We Don't Know but Need to Know](#)

[David T. Hartgen](#), The Hartgen Group, presiding

The past 50 years have seen major advances in travel analysis, modeling, and forecasting, yet the basic four-step paradigm is largely unchanged. Many new policies cannot be easily evaluated. Model accuracy is highly uncertain, and different paradigms are probably needed. This workshop discusses how travel analysis can or should advance over the next 50 years, looking at policy needs, knowledge needs, and steps forward. The audience will participate through comments, handouts, and votes.

Introduction (P14-5092)

[Ram M. Pendyala](#), Georgia Institute of Technology

Setting the Stage (P14-5093)

[David T. Hartgen](#), The Hartgen Group

What Subject Issues Will We Face? What Will "Clients" Ask of Us? (P14-5094)

[Rebekah Straub Anderson](#), Ohio Department of Transportation

[Steven E. Polzin](#), University of South Florida

How Should Models be Used in Academia and in Practice? How Can We Accelerate Tech Transfer? (P14-5095)

[Tom van Vuren](#), Mott MacDonald Limited, United Kingdom

Audience Participation (P14-5096)

The State of Our Knowledge (P14-5097)

[Chandra R. Bhat](#), University of Texas, Austin

What Do We Need to Know to Analyze These Issues? (P14-5098)

[Mark Bradley](#), RSG

Panel Discussion: What Are the Limitations of Our Current Knowledge? (P14-5099)

[Kay W. Axhausen](#), Swiss Federal Institute of Technology, Zurich

[Deborah Niemeier](#), University of California, Davis

[Antonio Paez](#), McMaster University, Canada

Audience Participation (P14-5100)

How Should We Proceed? (P14-5101)

[Konstadinos G. Goulias](#), University of California, Santa Barbara

[David T. Hartgen](#), The Hartgen Group

[Ken Cervenka](#), Federal Transit Administration

[Eric J. Miller](#), University of Toronto, Canada

Audience Participation (P14-5102)

TRB PLANNING AND ENVIRONMENT GROUP Annual Report of Committee Activities

Committee Name and Number: Transportation Planning Applications (ADB50)

Committee Chair: Ms. Barbara J. Arens and Ms. Julie K.P. Dunbar

Year: 2015

- 1. Current Committee Scope:** This committee is concerned with the application of new or improved transportation planning methods and techniques and their practical application at the regional, corridor, and site level of analysis.

- 2. Committee Membership (*See member distribution chart attached.*)**
 - C. Number of members at current time.
 1. Total 27 (*does not include young and emeritus members*)
 2. Young 4
 3. Emeritus 2
 4. International 3

- 3. Paper Review:**
 - E. Number of papers reviewed during the last year: 28
 - F. Number of papers recommended for publication: 5

- 4. Annual Meeting Sessions Sponsored (*Lists of sessions for the last year are attached.*)**
 - A. Number of paper or conference sessions at the last annual meeting: 2
 - B. Number of workshop sessions at the last annual meeting: 0
 - C. Number of poster sessions at the last annual meeting: 1
 - D. Number of co-sponsored sessions at the last annual meeting: 1
 - E. Number of published meetings at the last annual meeting: 2
 - F. Number of unpublished meetings at the last annual meeting: 0

5. **Research Problem Statements** (*Problem statements submitted in last year are attached.*)
<http://trb.org/InformationServices/Public/ResearchNeedsStatementsRNS.aspx>
 - A. Number of problem statements submitted last year 0
6. **List of Critical and Cross-Cutting Issues** (*Issues the committee plans to address are attached.*)
7. **Other Activities Sponsored During the Last Year:**
8. **Appendix – Annual Meeting Sessions:**

ADB50 - Transportation Planning Applications

Paper or Conference Session (S)s

336 (KFS15-013)

Monday, January 12, 2015, 1:30pm- 3:15pm, Convention Center, 146B

Transportation Planning Applications: It's all about the Data!

[Charles Gorugantula](#), Mid-America Regional Council; [Katherine Haire](#), HDR, Inc.,
presiding

Sponsored by Committee on Transportation Planning Applications

Multiple Attribute and Stakeholder Method for Traffic Project Evaluation and Decision Making (15-1630)

[Xin Yu](#), University of Hawaii, Manoa

[Panos D. Prevedouros](#), University of Hawaii, Manoa

Activity Space of Older and Working-age Adults in the Puget Sound Region, Washington (15-1772)

[Sungyop Kim](#), University of Missouri, Kansas City

[Gudmundur Freyr Ulfarsson](#), University of Iceland

Exploratory Analysis of a Smartphone-Based Travel Survey in Singapore (15-4343)

[Fang Zhao](#), Singapore-MIT Alliance for Research and Technology

[Francisco C. Pereira](#), Massachusetts Institute of Technology

[Rudi Ball](#), Massachusetts Institute of Technology

[Youngsung Kim](#), Massachusetts Institute of Technology
[Yafei Han](#), Massachusetts Institute of Technology
[P. Christopher Zegras](#), Massachusetts Institute of Technology
[Moshe E. Ben-Akiva](#), Massachusetts Institute of Technology

Simultaneous Travel Model Estimation from Survey Data and Traffic Counts (15-5905)

[Vincent L. Bernardin](#), RSG
[Steven Trevino](#), RSG
[Greg Slater](#), Michiana Area Council of Governments
[John P. Gliebe](#), RSG

674 (KFS15-014)

Tuesday, January 13, 2015, 3:45pm- 5:30pm, Convention Center, 146B

Transportation Planning Applications: Trips or Tours, Spaces or Places, Directions or Connections – It’s all about the Models!

[Keith L. Killough](#), Arizona Department of Transportation; [David L. Kurth](#), Cambridge Systematics, Inc., presiding

Sponsored by Committee on Transportation Planning Applications

Intrazonal Trip Distances: An Estimation Approach and Application to a Case Study (15-0383)

[Antonio Nelson Rodrigues da Silva](#), University of Sao Paulo, Brazil
[Conrado Vidotte Plaza](#), University of Sao Paulo, Brazil

Effects of Built Environment on Activity Spaces as Transportation Equity Indicator (15-3511)

[Na Chen](#), Ohio State University
[Gulsah Akar](#), Ohio State University

Comprehensive Validation of Activity-Based Model: Experiences from Houston-Galveston Area Council’s Activity-Based Model Development (15-4275)

[Marty Milkovits](#), Cambridge Systematics, Inc.
[Arun Reddy Kuppam](#), Cambridge Systematics, Inc.
[David L. Kurth](#), Cambridge Systematics, Inc.
[Thomas F. Rossi](#), Cambridge Systematics, Inc.

Street Connectivity Versus Street Widening: Impact of Enhanced Street Connectivity on Traffic Operations in Transit-Supportive Environments (15-4642)

[Ivana Milorad Tasic](#), University of Utah
[Milan Zlatkovic](#), University of Utah
[Peter T. Martin](#), New Mexico State University
[Richard Jon Porter](#), University of Utah

Tour Characterization Framework Incorporating Activity Stop-Sequencing Model System (15-6047)

[Venu Madhav Garikapati](#), Arizona State University
[Daehyun You](#), Arizona State University
[Ram M. Pendyala](#), Georgia Institute of Technology
[Kyunghwi Jeon](#), Maricopa Association of Governments
[Vladimir Livshits](#), Maricopa Association of Governments
[Peter Vovsha](#), PB Americas, Inc.

Poster Session (P)s

442 (KFP15-005)

Monday, January 12, 2015, 4:15pm- 6:00pm, Convention Center, Hall E

Transportation Planning Applications: Tips and Tools

[Joe Huegy](#), North Carolina State University, Raleigh; [Jill Hough](#), North Dakota State University, presiding

Sponsored by Committee on Transportation Planning Applications

Transit Commuting and the Built Environment in Station Areas Across the United States (15-1966)

[John L. Renne](#), University of New Orleans

[Reid Ewing](#), University of Utah

[Shima Hamidi](#), University of Utah

Measuring Effects of Traffic Congestion on Fuel Consumption (15-2087)

[Alvaro Garcia-Castro](#), Technical University of Madrid, Spain

[Andres Monzon](#), Universidad Polytechnica de Madrid, Spain

Proof-of-Concept for Methodological Framework to Evaluate Operational Strategies with Travel Demand Models (15-2633)

[Jiaqi Ma](#), University of Virginia

[Changju Lee](#), University of Virginia

[Michael J. Demetsky](#), University of Virginia

Are Microsimulation Models Random Enough? Comparison of Modeled and Observed Stochasticity (15-5789)

[John Shaw](#), University of Wisconsin, Madison

[David A. Noyce](#), University of Wisconsin, Madison

Origin-Destination Trip Estimation from Anonymous Cell Phone and Foursquare Data (15-2379)

[Rokib S A](#), University of Alberta, Canada

[Md. Ahsanul Karim](#), University of Alberta, Canada

[Tony Z. Qiu](#), University of Alberta, Canada

[Amy M. Kim](#), University of Alberta, Canada

TraClus-DL: Desire Line Clustering Framework to Identify Demand Corridors (15-

3508)

[Kinan Bahbouh](#), Polytechnique Montreal, Canada

[James R. Wagner](#), McGill University, Canada

[Catherine Morency](#), Polytechnique Montreal, Canada

[Chantal Berdier](#), Institut National des Sciences Appliquees de Lyon, France

Verification of Trip Generation and Trip Internalization Estimation Procedures for Mixed-Use Developments (15-4881)

[Aldo Fabregas](#), Florida Institute of Technology

[Pei-Sung Lin](#), University of South Florida

[Vivek Koneru](#), University of South Florida

[Brian Stephen Bochner](#), Texas A&M Transportation Institute

[Karen E. Seggerman](#), University of South Florida

[Abdul Rawoof Pinjari](#), University of South Florida

Published Meeting - Committee (M)s

KFM15-024

Tuesday, January 13, 2015, 1:30pm- 3:15pm, Marriott Marquis, Monument (M4)

Transportation Planning Applications Committee

[Barbara J. Arens](#), Parsons Brinckerhoff Michigan Inc., presiding

Sponsored by Committee on Transportation Planning Applications

KFM15-030

Tuesday, January 13, 2015, 8:00am- 9:45am, Marriott Marquis, Monument (M4)

Transportation Planning Applications Conference Planning Subcommittee, ADB50(1)

[Patrick Coleman](#), AECOM, presiding

Sponsored by Committee on Transportation Planning Applications