Transportation Safety Advancement Group

2019 – 2020
STRATEGIC PLAN
Updated 1-21-2020

TSAG Vision:
Public and responder safety that is fully integrated and enabled through the use of transportation technology.
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2019 – 2020 STRATEGIC PLAN

1. FOREWORD
The Transportation Safety Advancement Group (TSAG) provides important input to the US Department of
Transportation (US DOT) Intelligent Transportation Systems (ITS) Joint Program Office (JPO) by identifying and
promoting technology applications that address our nation’s surface transportation safety challenges. The
Institute of Transportation Engineers provides operational, administrative and technical support through
funding from the USDOT ITS JPO. This Strategic Plan updates an earlier 2016-2018 Plan and refines the form
and direction through which TSAG continues pursuit of its mission of technology for public safety-specific
challenges. Through awareness of our operating environment and capacities, and by setting our strategic
direction, this Plan defines a path for serving key TSAG objectives through 2020.

2. HOW TSAG WORKS WITH THE ITS JOINT PROGRAM OFFICE
The US Department of Transportation’s ITS Joint Program Office (JPO) is focused on intelligent vehicles,
intelligent infrastructure, and the advancement of safe and efficient transportation systems through
connectivity between and among transportation system components. The ITS JPO supports the advancement
of Intelligent Transportation Systems through investment in major initiatives, exploratory research, and
deployment support. The ITS JPO pursues its goals through research and development, operational testing,
technology transfer, training, and technical guidance particularly in the areas of intelligent vehicles, advanced
traffic and transit management, commercial vehicle operations, public safety, traveler information, and inter-
modal freight.

From its inception as the Public Safety Advisory Group in the early 2000s, the Transportation Safety
Advancement Group has been dedicated to its purpose of gaining insight and knowledge of transportation
safety needs and how these may be served through proven and emerging technologies. Through a dedicated
group of volunteer transportation and public safety professionals, TSAG is a significant advocate for employing
public safety technologies to address our national transportation safety challenge. Through pursuit of its
charter to advance transportation safety via the ITS Joint Program Office on Intelligent Transportation
Systems and advanced technologies, TSAG supports the ITS Joint Program Office mission.

3. A STRATEGIC TSAG VISION & MISSION
The TSAG vision represents the long-range ideal that its partners collectively pursue. This ideal inspires the
TSAG, its stakeholders, partners, and like-minded interest groups to unite behind a core purpose and
recognize a service to TSAG’s communities of public and transportation safety interests.

TSAG Vision
Public and responder safety that is fully integrated and enabled through the use of transportation
technology.

While the TSAG Vision describes an ideal state pursued through TSAG Strategic Plan, the companion TSAG
Mission focuses on who we are, how we will progress toward this ideal, and the focus of TSAG activity to
serve its charter and its stakeholders.

TSAG Mission
In concert with the US Department of Transportation ITS Joint Program Office, TSAG identifies and
promotes transportation related technologies that improve the safety of responders and the public.
It is this TSAG Mission that sets the near-term directive for current and future TSAG special projects, meetings, outreach activities, and for its broader purpose of knowledge transfer.

4. **TSAG STRATEGIC DIRECTION**

To optimize Strategic Plan effectiveness, TSAG seeks to assimilate a core strategy for achieving its projects and meeting objectives, and understands that it cannot be distracted from this core strategy. This declaration of strategic discipline is termed our Strategic Direction. The focus of this TSAG 2019-2020 Strategic Plan is defined through this Strategic Direction.

**Strategic Direction:**

*The Transportation Safety Advancement Group, through its special projects, work plan, and outreach activities, promotes technologies and best practices that minimize transportation incident impacts and support safe and efficient emergency response and management through interdisciplinary and inter-agency communications and coordination.*

Through a primary focus on this Strategic Direction, TSAG will address issues and opportunities identified through the 2019-2020 Work Plan section of this document. These actions include strategic goals to be pursued and strategies for their achievement.

5. **OPERATING PRINCIPLES / OPERATING GOALS**

**Operating Principles**

In support of its charter to provide feedback and insight to US DOT ITS Joint Program Office, TSAG is dedicated to advancing public safety across transportation modes, transportation services and functions, and transportation and public safety jurisdictions. To this end, TSAG has shaped this Strategic Plan through observance of its refined Operating Principles, including:

- **Public Safety Through Technology** – The advancement of proven and emerging technologies for traveler safety and for the safety of emergency responders remains a TSAG priority as these technologies and broader Intelligent Transportation Systems are deployed along our nation’s multi-modal transportation networks.

- **Public Safety Through Strategic Alliances** – Strategic alliances, partnerships, and institutional frameworks that serve to advance transportation safety and mobility through technology are encouraged and will be promoted through TSAG support of relevant public policy, technology research, and competitive and open technology markets.

- **Public Safety Through Knowledge Transfer** – TSAG will advance traveler and emergency responder safety through forums that share knowledge, promote awareness, and exchange experiences – all employed to create a national awareness of, and connection to, transportation and public safety goals and achievements.

**Operating Goals**

Guided by the Operating Principles, a companion set of strategic Operating Goals supports cohesion among TSAG members, their communities of interest, and TSAG strategic partners as all come together to support a unified program of actions. Accordingly, specific TSAG Operating Goals will be pursued in support of this 2019-2020 Strategic Plan and companion special projects, meetings, and outreach activities. These include:

- Support operating partnerships within TSAG Interest Communities and like-minded stakeholders
Strengthen the interplay among TSAG members and partners through interactive working events
Establish functional knowledge transfer and information exchange mechanisms
Strengthen TSAG’s identity with federal, state, regional and local transportation operators and with US DOT modal administrations
Support and help expand a national partnership among leading transportation operations and public safety organizations as well as related technology industries
Identify and support the needs of first responder safety technologies
Identify and promote best practices for improving public safety inter-disciplinary coordination
Identify and promote public safety communications technologies

6. THE TSAG OPERATING ENVIRONMENT
To help ensure positive outcomes and to respond to its operating environment, the TSAG Strategic Plan continues to seek insight and guidance from its US DOT sponsors, key ITS industry leaders, and the evolving political, institutional, and technical environments.

Working within this operating environment, TSAG will dedicate its resources of volunteer members, US DOT leadership, and strategic partners in pursuit of its public safety mission. Potential strategic partnerships include national TSMO/ITS research entities such as the Transportation Research Board (TRB), the American Society of Civil Engineers (ASCE), the Institute of Transportation Engineers (ITE), the Intelligent Transportation Society of America (ITSA) and SAE International, as well as USDOT entities such as Turner-Fairbank Highway Research Center and the Volpe National Transportation Systems Center.

7. TSAG COMMUNITIES OF INTEREST
The Transportation Safety Advancement Group is organized under its bylaws to provide general input and promote public and transportation safety within the US DOT ITS Joint Program Office. Administered by ITE and supported through US DOT resources, TSAG complies with US DOT policies and regulations. Within this framework, TSAG functions through a proactive dialogue between representatives of its interest communities, ITS JPO staff, and US DOT Modal Administrations, collectively dedicated to advancing the safety, efficiency, economy, and environmental quality of transportation operations.

From its inception, the representative member team of professionals from multiple disciplines dedicated to a common public safety mission has strengthened TSAG’s ability to achieve its goals. Today, nine specific interest communities, representing a broad range of stakeholder organizations, nominate eighteen members (Appendix A) to direct the business of TSAG. TSAG communities of interest include:

1. Academic & Research
   Play key roles in research, education, and evaluation of transportation technologies, as well as performance measurement of technology applications and systems operations.

2. Emergency Communications
   Serve as the primary communication link for the public to obtain assistance from public safety professionals, and manage the technologies, data, interoperability issues, and communications frequencies utilized for incident response and initial incident management.
3. **Emergency Medical Services**
   Represent the front line of on-scene assessment, medical treatment, and transportation of victims in life threatening circumstances from incident sites to emergency departments and trauma centers.

4. **Transportation Operations**
   Oversee day-to-day surveillance, control, and management of transportation systems and multimodal networks through inter-agency and inter-disciplinary communication and coordination.

5. **Fire & Rescue**
   Serve fire-suppression needs, hazardous materials handling, victim rescue/extraction, and incident scene management operations support.

6. **Law Enforcement**
   Serve as the first line authority in incident response and management including incident scene management and protection, and incident evidence preservation.

7. **Technology & Telematics**
   Provide multi-level technology applications for transportation operations and for interfacing between drivers, vehicles, and infrastructures, through communications and integrated systems.

8. **Emergency Management**
   Address coordinated response to unplanned events or catastrophic incidents through multi-agency communications and multidisciplinary/multilevel management strategies.

9. **Governing Agencies**
   Responsible for ensuring safe, efficient, and environmentally sound transportation systems for the travelling public.

8. **2019-2020 WORK PLAN**
   The TSAG road map for achieving its strategic goals is laid out within this Work Plan. The 2019-2020 Work Plan detailed in this section replaces and builds upon previous TSAG Work Plans. TSAG pursues its strategic goals and progressively builds upon previous work through specific work plan elements, all aimed at serving this two-year Strategic Plan.

   Evident in this Work Plan are the common threads of TSAG identity, knowledge transfer, multi-level communications, and technology assessment. These common threads maintain a progressive growth path from one year to the next. Specific tasks associated with any given element will in turn respond to the TSAG operating environment. Thus, as the work plan is pursued, measures of performance and effectiveness will be monitored to identify necessary corrections, strengthen outcomes, and maintain a proper course toward meeting identified objectives.

   **Outreach around Special Projects**
   TSAG has pursued several special projects in order to advance its vision of protecting travelers and the public safety personnel who serve them. These special projects allow TSAG to take creative and innovative approaches to advocating for and promoting emergency responder and traveler safety. These projects have been developed by TSAG at business meetings and during conference calls, and were incubated through special project committees, assigned by the TSAG Executive Committee.

   TSAG can only fulfill its vision and pursue its mission with an effective outreach program. Because of the
often segmented nature of the transportation community, effective channels of communication and knowledge transfer must be undertaken in order for traveler and emergency responder safety advocacy to be effective. Therefore, as special projects are completed, TSAG fosters and manages strategic partnerships with appropriate transportation communities, using tools such as meetings, briefings, presentations, a widely marketed website, and outreach materials to be distributed at key industry events. TSAG is currently developing a formal TSAG Outreach Plan to assist in the key outreach function that TSAG is intended to serve.

The following special projects were identified and completed in the 2016-2018 Work Plan:

- Emergency Vehicle Operator On-Board Device Distractions
- Model Emergency Response Components for State Highway Safety/Highway Improvement/ITS Strategic Plans (State Plan Project)
- Synthesis of Technologies that Protect and Support Incident and Emergency Responders. At least one demo was completed during Q3 2016 with live and web outreach
- Connected Responder: Interest, Context, and Business Development

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- Connected Responder: Interest, Context, and Business Development

2019-2020 Special Projects

TSAG has identified the following special projects for the 2019-2020 Work Plan. These special projects are described briefly below and presented in priority order:

1. CAV Needs Specific to Emergency Response (use cases)
   This project will address vehicle to responder communications (hazardous conditions needs, special equipment needs – e.g., extrication), unique behavior of AVs in emergency response scenarios, and AV needs from responders including standards and specifications. It will also identify behaviors of vehicles in response to emergency vehicles (e.g., how a level 4 AV will behave as an emergency response vehicle approaches).

2. Transportation-related Public Safety Apps
   This project will include several key steps including: review and classification of current transportation related public safety apps, gap identification, recommendations on specific areas of need/priorities to private and public sector providers, development of a structure for a public safety centric hackathon (and identify possible sponsors), coordination with FirstNet (or other identified providers) to develop apps to meet the gaps and identify and document activities that occur as a result of this effort.

3. TMC - PSAP Interoperability
   Real time information sharing and interoperability between traffic management centers (TMC) and public safety answering points (PSAP) provide enhanced detection, notification, response, and incident clearance. This project will look at case studies/best practices on effective integration (shared platforms, automated data sharing, speed dial, other) and review pooled-fund studies to develop a synthesis of best practices for TMC/PSAP data sharing and integration. It will look at locations that have an extraordinary level of interface, document experience to share with others and develop case studies on effective integration. Further, it will examine institutional issues and system integration in targeted areas including but not limited to Minnesota, Virginia, Maryland, and Austin.

Each project will be developed to include outreach strategies and measures of effectiveness. ITE will work with the TSAG Executive Committee and the project committee, if one is designated, to develop a scope of work and schedule for the project.

In addition to targeted outreach around the special projects, TSAG will continue to help bring together the
emergency responder and general transportation/ITS communities whenever the opportunity presents itself, through webinars, presentations at conferences, demonstrations or other events, and in coordination with the National Operations Center of Excellence.

9. **TSAG OUTREACH & KNOWLEDGE TRANSFER**

Through forums, publications, and broader communications programs, TSAG reaches out to public and private transportation services organizations and technology research and development interests. Guided by its Strategic Plan and future Outreach Plan, TSAG pursues programs and projects that directly advance the application of transportation safety technologies. Further, TSAG members share their expert knowledge and insight on transportation and first responder safety technologies through their communities of interest, stakeholders, and strategic partners.

Figure 1 illustrates the multi-directional knowledge and information flow through which TSAG reaches across transportation safety interests, to US DOT, and to its modal administrations. As the TSAG knowledge base is expanded and as its knowledge transfer flow matures, information exchange platforms and strategies will be leveraged through partnerships and with allied transportation operations and public safety interests.

10. **TSAG ORGANIZATIONAL STRUCTURE**

To help address evolving challenges and capture identified opportunities, the TSAG organizational structure (see Figure 2) engages leaders from US DOT and TSAG members. US DOT Modal Administrations provide policy and research insight, as well as important knowledge about federal policy, modal deployments and lessons learned.
Figure 2: TSAG Organizational Structure

**TSAG Executive Committee**
- Chair
- Vice Chair
- Outreach Officer
- USDOT ITS JPO Representative (Ex Officio)
- Program Manager (Ex Officio)

**TSAG Member Constituencies**
- Academic & Research
- Emergency Communications
- Emergency Management
- Emergency Medical Services
- Fire & Rescue
- Law Enforcement
- Technology & Telematics
- Transportation Operations
- Governing Agencies

**FHWA Modal Offices**
- NHTSA
- FRA
- FTA
- OST
- FMCSA
- FHWA
- PHMSA
11. TSAG OPERATIONS SUPPORT
As enumerated in earlier discussions of its fundamental strengths, TSAG enjoys a three-part support base comprised of the professional staffs of the ITS Joint Program Office, TSAG Program Manager, and the TSAG’s professional members, representing the broad knowledge and experience base of the transportation operations and public safety communities. The ITS Joint Program Office provides direct support through contractual underwriting of TSAG, and guides TSAG program management, administration, Work Plan implementation, policy and oversight. ITE provides front-end program management support, web-service management, internal alliances support, and technical/administrative support. TSAG members volunteer their professional experience and expert knowledge through direct engagement in Work Plan implementation, management guidance, pursuit of strategic alliances, and associated communications within and throughout interest communities and stakeholder organizations. Together, US DOT, ITE and TSAG members provide substantial investments of professional knowledge, experience, time, and financial resources, all toward serving TSAG in pursuit of its core mission and strategic objectives.

12. MEASURING OUR PROGRESS
Work Plan Tracking
The Work Plan sets forth how strategic goals will be pursued. As the Work Plan is implemented, progress reports, budget reviews, and effectiveness measurements will be a part of Work Plan tracking. Through these implementation and tracking tools, TSAG will measure its progress and levels of success as it pursues its core mission and strategic objectives. The Program Manager staff manages the TSAG Strategic Plan and its associated Work Plan, with milestone oversight of the TSAG Executive Committee, ad-hoc teams and at-large members. Work Plan budgets will be defined and managed through the Program Manager, in compliance with US DOT ITS JPO policies and procedures and contract requirements.

Risk Management
Specific elements of the Work Plan may not be risk averse. For example, risks associated with aggressive schedules, or expectations of volunteer members will need to be identified, weighed, and managed. Risk management will involve active tracking of known risks, identification of emerging risks, and the development of needed interventions or implementation strategy adjustments. Through risk management, TSAG will minimize potential for work plan implementation shortfalls and optimize levels of success.

Issue-Action Tracking
Issues affecting program implementation will be defined and tracked. Issues will be classified as policy, technical, or administrative, and will be addressed openly in the interest of members and stakeholders. Project implementation issues will be identified and tracked for proper management and disposition applying sound project management practices.

Status Reporting
Work Plan elements represent the core actions through which TSAG will pursue its mission and strategic goals. Each Work Plan element will be implemented through identified actions, milestone tracking, and implementation status reports delivered on a regular basis to TSAG members.

TSAG Image and Reputation
A final and key measure of performance comes through maturing TSAG image and reputation. This key measurement begins with TSAG partners, allied interests, and the ITS community at large. The Program Manager and the ITS Joint Program Office, as partners, will reflect a first view of the overall TSAG image and reputation as TSAG moves further into the public arena. Early actions include an improved TSAG website with news of current events and accomplishments.
TSAG members, or interested parties serving on ad-hoc or project committees, who may, through the course of their business interests, contract with U.S. DOT, shall make such relationship known to the Executive Committee and, where TSAG actions may relate to any contractual interest, shall recuse themselves from voting on such action(s).

13. ANNUAL REPORTS
Every year (subject to funding), TSAG will provide the ITS Joint Program Office an overview of its performance parameters through an Annual Report. The Work Plan will be refined and adjusted after review of the Annual Report to ensure that TSAG’s goals are being met.

14. LOOKING AHEAD
In subsequent years this Strategic Plan will be revisited and adjusted in response to changing operating environments and management priorities. The TSAG vision and mission will drive its fundamental focus and its Operating Principles and Operating Goals will serve as its template for identifying public and transportation safety challenges and opportunities.
## Appendix A - Member Interest Communities & Candidate Member Organizations

October 2019

<table>
<thead>
<tr>
<th>Interest Community</th>
<th>Candidate Member Organizations*</th>
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</thead>
<tbody>
<tr>
<td><strong>Emergency Communications</strong></td>
<td>APCO - Association of Public-Safety Communications Officials-International</td>
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<td></td>
<td>NENA - National Emergency Number Association</td>
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<td></td>
<td>NPSTC - National Public Safety Telecommunications Council</td>
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<td></td>
<td>NASNA – National Association of State 911 Administrators</td>
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<td><strong>Law Enforcement</strong></td>
<td>IACP - International Association of Chiefs of Police</td>
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<td></td>
<td>NSA - National Sheriffs’ Association</td>
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<td></td>
<td>MCCA - Major Cities Chiefs Association</td>
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<td></td>
<td>MCSA - Major County Sheriffs of America</td>
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<td><strong>Emergency Medical Services</strong></td>
<td>NASEMSO - National Association of State EMS Officials</td>
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<td>NAEMSP - National Association of EMS Physicians</td>
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<td></td>
<td>NAEMT - National Association of Emergency Medical Technicians</td>
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<td></td>
<td>ACEP - American College of Emergency Physicians</td>
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<td></td>
<td>ACS/COT - American College of Surgeons/Committee on Trauma</td>
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<td></td>
<td>NEMSMA - National EMS Management Association</td>
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<td><strong>Fire &amp; Rescue</strong></td>
<td>IAFF - International Association of Fire Fighters</td>
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<td>NVFC - National Volunteer Fire Council</td>
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<td><strong>Transportation Operations</strong></td>
<td>AASHTO – American Association of State Highway Transportation Officials</td>
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<td>GHSA - Governors Highway Safety Association</td>
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<td></td>
<td>AAA - American Automobile Association</td>
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<td>ATSIP - Association of Transportation Safety Information Professionals</td>
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<td>ITE – Institute of Transportation Engineers</td>
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<td></td>
<td>NACE – National Association of County Engineers</td>
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<td>APWA – American Public Works Association</td>
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<td></td>
<td>NACTO – National Association of City Transportation Officials</td>
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<td></td>
<td>TRAA - Towing and Recovery Association of America</td>
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<td><strong>Emergency Management</strong></td>
<td>NEMA - National Emergency Management Association</td>
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<td></td>
<td>IAEM – International Association of Emergency Managers</td>
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<tr>
<td><strong>Technology &amp; Telematics</strong></td>
<td>NASCIO - National Association of State Chief Information Officials</td>
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<td></td>
<td>ATA - American Trucking Associations</td>
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<td></td>
<td>ITSA - Intelligent Transportation Society of America</td>
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<td>PTI - Public Technology Institute</td>
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<td>SAE International</td>
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<td>IMSA – International Municipal Signal Association</td>
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<td>NASTD – National Association of State Technology Directors</td>
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<td><strong>Academic and Research</strong></td>
<td>TRB - Transportation Research Board</td>
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<td></td>
<td>UTC - University Transportation Centers Public and Private Universities</td>
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<td>NPF - National Police Foundation</td>
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<td>AAAM - Assoc. for Advancement of Automotive Medicine</td>
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<td><strong>Governing Agencies</strong></td>
<td>NLC - National League of Cities</td>
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<td></td>
<td>NGA - National Governors Association</td>
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<td>AMPO – Association of Metropolitan Planning Organizations</td>
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<td></td>
<td>US Conference of Mayors</td>
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<td>NACo - National Associations of Counties</td>
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<td></td>
<td>ICMA – International City/County Management Association</td>
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<td></td>
<td>NCSL - National Conference State Legislatures</td>
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<tr>
<td></td>
<td>NARC - National Association of Regional Councils</td>
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*Other related national, non-profit, non-governmental organizations representing each Interest Community may be included in solicitation of new members.