

Proposed TTC Work Plan (July 10, 2019)

Purpose of TTC Work Plan

- To advise the NVTA Executive Director on multi-modal transportation technologies and related transportation trends that support (or endanger) the vision of the Authority as stated in its current Five-Year Strategic Plan;
- To make specific recommendations for consideration by the NVTA Executive Director related to the development of TransAction, the regional, multi-modal, long-range transportation plan for Northern Virginia, and the development of updates to the Authority's Six Year Program. Such recommendations may include the use of transportation technologies to complement traditional transportation infrastructure and enhance the operation and performance of the regional transportation system; and
- To develop an evidence-based body of knowledge that will educate and inform regional policy makers on multi-modal transportation technologies and related transportation trends.

TTC Scope and Horizons

While the TTC's advice shall be NoVA-focused, the TTC should consider national and international trends while embracing local transportation preferences wherever possible.

The TTC will address transportation technologies and related trends that are occurring on multiple, overlapping timelines:

- Today, e.g. Intelligent Transportation Systems (ITS) technologies, shared mobility
- During the next couple of years, e.g. enhanced ITS technologies, Mobility as a Service (MaaS)
- Multi-decadal basis, e.g. Connected, Autonomous, Shared, Electric (CASE) vehicles

Proposed Deliverables

Four initial deliverables are proposed. Drafts will be developed by NVTA staff, in collaboration with staff from other entities where appropriate. Deliverable format will be white papers and/or presentations. Review and finalization of deliverables is expected to take up to three months for each deliverable. Deliverables will identify areas that can be directly addressed by NVTA, but will not be constrained by these.

Ultimately, the deliverables are intended to identify strategies that will lead to actionable strategies and real solutions that address regional transportation needs.

1. NVTA/NoVA Transportation Primer (draft September 2019)
 - Summarize regional transportation needs;
 - Provide TTC members with a better understanding of TransAction vision, goals, performance measures, etc.;
 - Summarize region's current transportation technology activities, e.g. Connected Corridor, RM3P, TSP, data-sharing, EV infrastructure and private sector initiatives;
 - Identify potential funding sources for future technology deployments; and

- Identify existing and potential roles of public and private sectors, and opportunities for partnership.
- 2. Appropriate Role of Technology, Challenges/Opportunities (draft October 2019)
 - Define linkages between needs and technology, e.g.:
 - Reduce congestion, first/last mile options
 - Improve accessibility to jobs, healthcare, etc.
 - Improve safety/enhance emergency management
 - Reduce emissions/build resilience
 - Identify moral/ethical and other implications related to technology deployment, and identify options to address including:
 - Equity for vulnerable populations
 - Privacy
 - Cyber Security
 - Identify technology related scenarios (alternate futures) for analysis during TransAction development, e.g.:
 - Impact of travel behavior changes arising from RM3P build-out
 - Impact of travel behavior changes related to CASE vehicles
 - Consider the operations and maintenance implications and costs of different types of technology deployments, and identify sustainable approaches to funding
 - Explore opportunities for public/private partnerships
- 3. Outreach/Education (draft December 2019)
 - Using facts rather than 'hype', develop appropriate messaging for multiple target audiences:
 - Authority members; policy development; investment strategies
 - Regional stakeholders, including the business community; collaboration; synergies
 - Northern Virginians; technology awareness; safeguards; impacts; value for money
 - Private sector; partnership opportunities
- 4. Regional Technology Policy Development Needs (2020)
 - Incentivize increased vehicle occupancy across all modes
 - Variable use-based pricing for AVs
 - Facilitate development of EV infrastructure
 - Data (sharing/security/privacy) policies
 - Equitable distribution of technology benefits
 - Guidelines for funding future technology deployments
 - Mitigation of potentially negative impacts
 - Curb and parking management strategies

Role of TTC members

- Review draft deliverables and provide feedback;
- Suggest additional work plan deliverables; and
- Inform the TTC on matters relevant to the TTC Work Plan.