



WASHINGTON STATE
AUTONOMOUS VEHICLE
WORK GROUP

Infrastructure and Systems Subcommittee Report

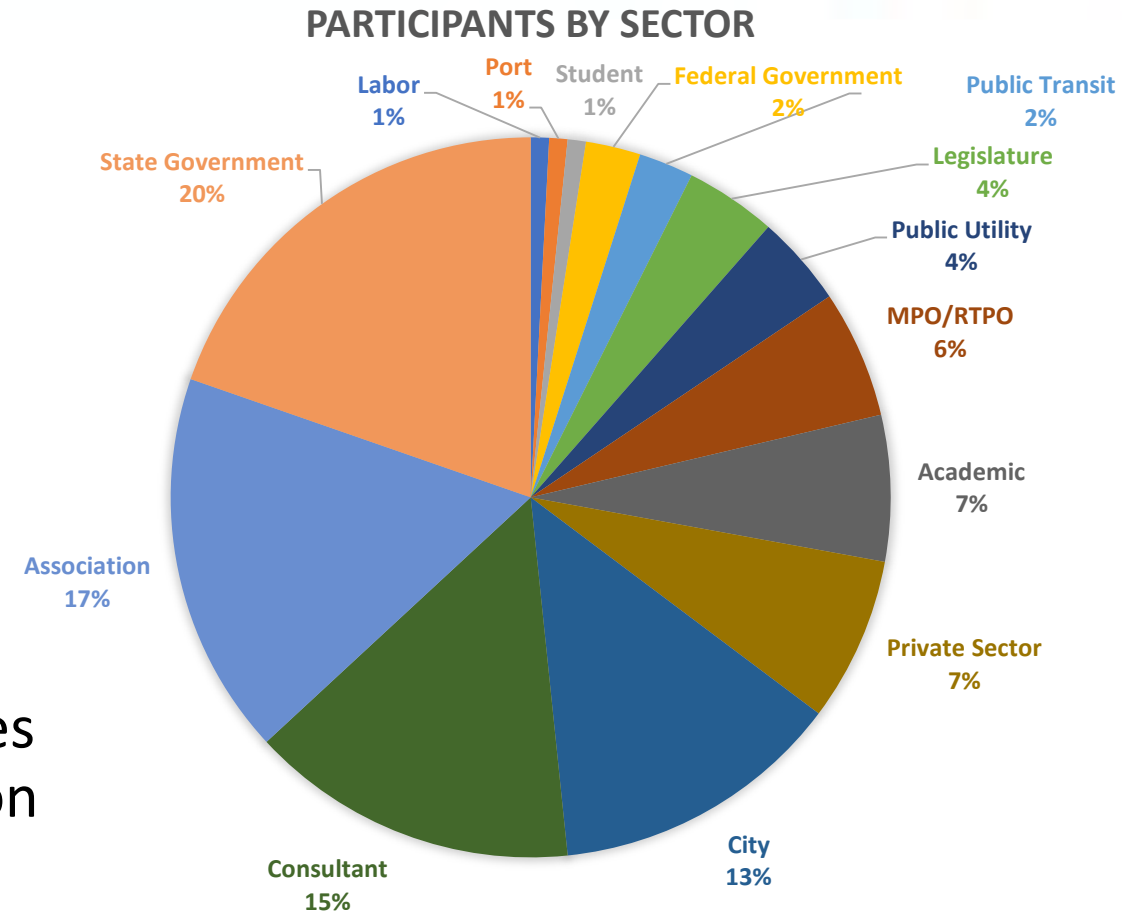
June 28th, 2019



Subcommittee Structure and Membership



- Subcommittee Co-Chairs:
 - » Roger Millar, Secretary, WSDOT
 - » Michael Ennis, Government Affairs Director, AWB
- Membership
 - » 74 working members (Up from 56, Oct. 2018)
 - » 48 interested parties
 - » Open membership structure
 - » Following the Operating Policies & Procedures established by the Transportation Commission through the Feb 27th, 2019 memo



Meetings to Date / Future Meetings Planned



- Meeting #1, October 2, 2018
- Meeting #2, February 8, 2018
- Meeting #3, April 26, 2019
- Meeting #4, June 14, 2019
- Planned Meeting #5, August 12, 2019
- Planned Meeting #6, September 9, 2019

All meeting materials & minutes available online

2019 Action Plan

3 Activities

11 Actions

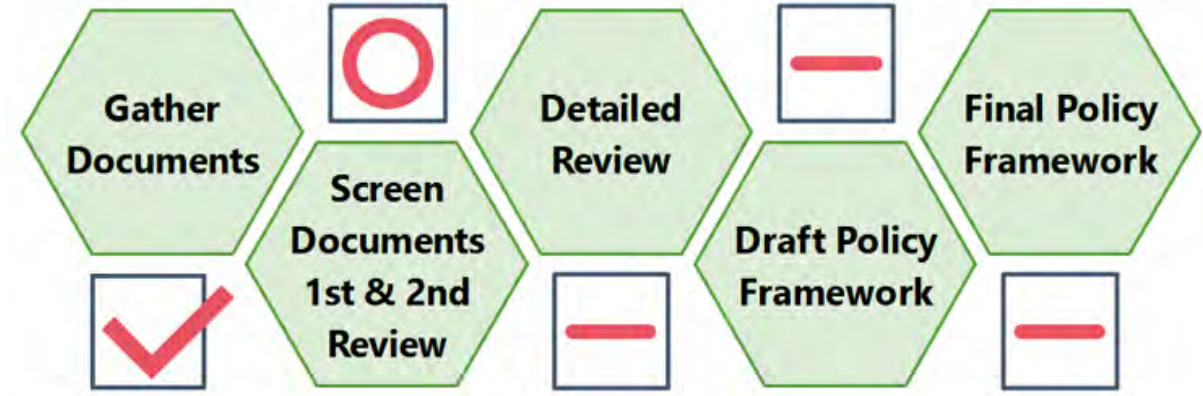
4 Target Outcomes

Deliverable Date

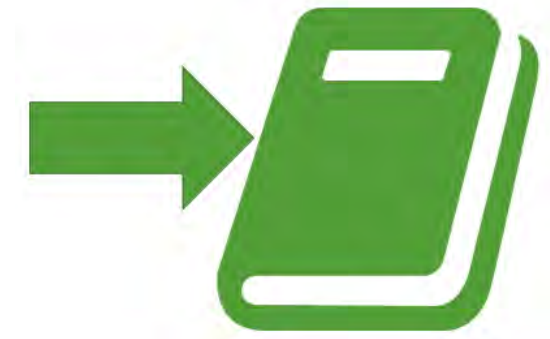
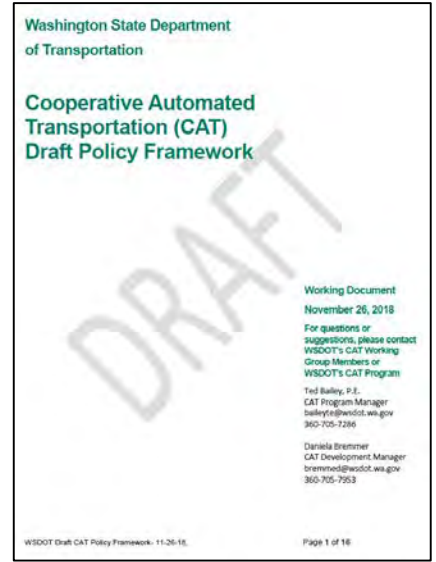
September, 2019

- **Activity #1: Overview**
 - » Develop policy goals, strategies and illustrative actions based on local, regional and national “best practice” policy examples. The goals, strategies and sample actions should be measurable.

- **5 Actions:**

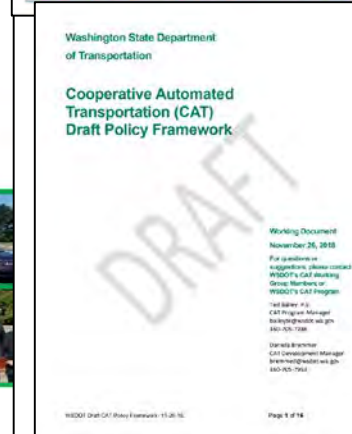
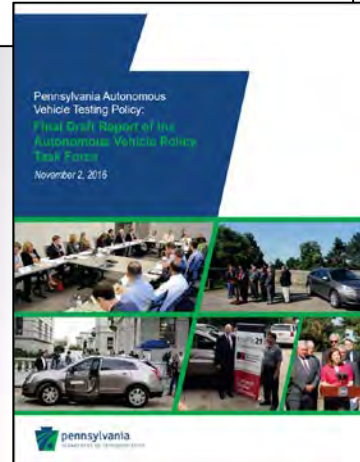
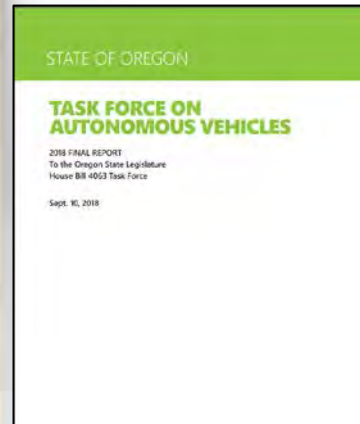


- **1 Target Outcome:**



WA State
Cooperative Automated Transportation
Policy Framework
(Infrastructure & Systems)

- **Activity #1: Continued**
- **Actions 1 & 2:**
Gather and Screen Documents



Agency / Organization	Content	Summary of Content
Colorado	CAT Program	Includes mission, purpose, issues, objectives, priorities, and risks associated with the Connected and Autonomous Technology in Colorado.
Oregon	State of Oregon Task Force on Automated Vehicles	Describes: <ul style="list-style-type: none"> • Overview of automated vehicle technology and considerations that prompted the creation of the task force • Task force membership, structure, and process • Elements of a permitting process for testing highly automated vehicles in the state and additional policy recommendations in each of the subcommittee areas • Topics for further consideration identified by the task force
Washington State DOT (WSDOT)	Cooperative Automated Transportation (CAT) Policy Framework	To achieve this vision, this policy framework sets shared expectations to guide and monitor technology implementation. The framework is intended to spur innovation and investment while improving safety, mobility, and transportation system efficiency.

2019 Action Plan
3 Activities
11 Actions
4 Target Outcomes
Deliverable Date
September, 2019

2019 Action Plan

3 Activities

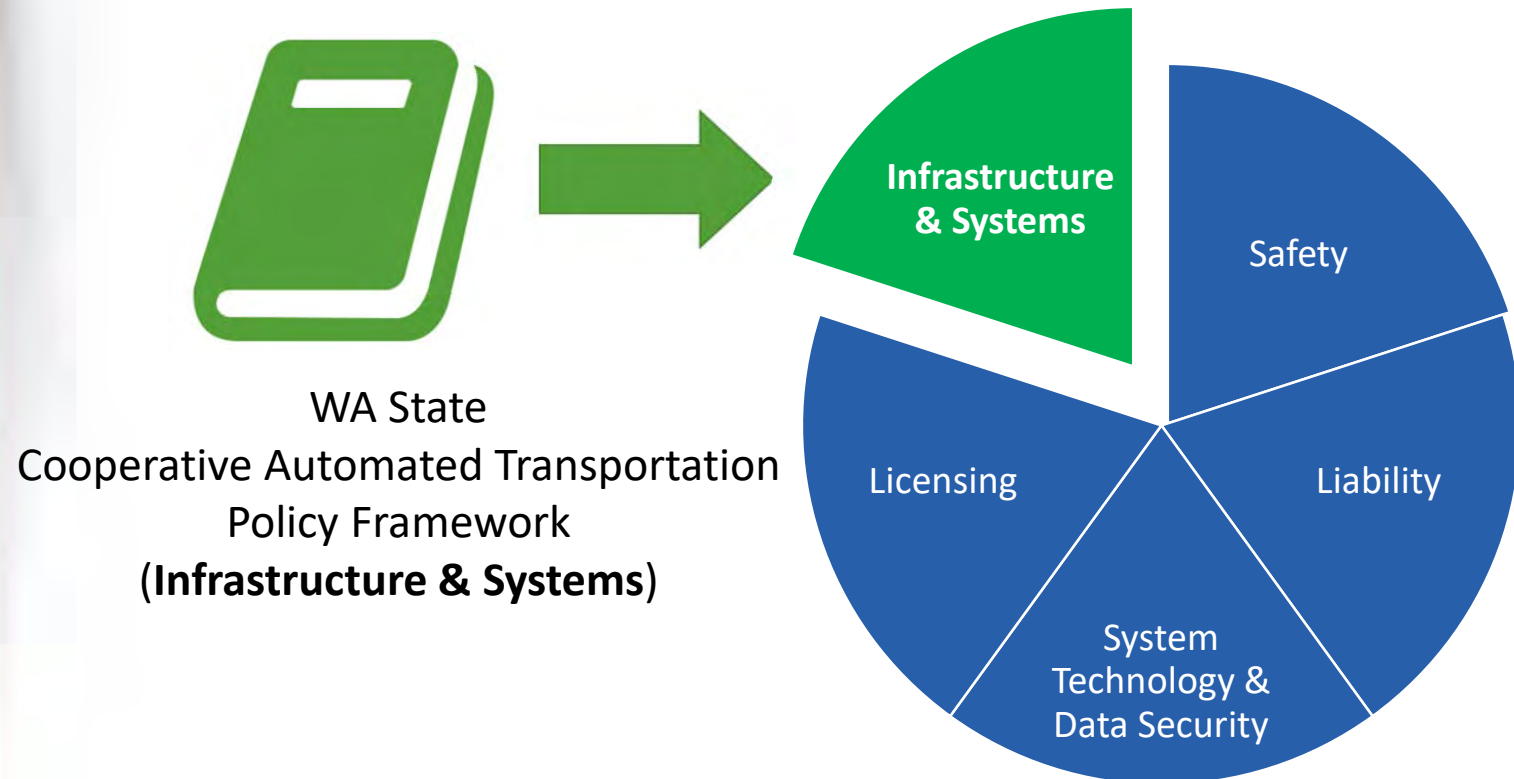
11 Actions

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- **Activity #1: Continued**
- The **Infrastructure and Systems** focused “WA State Cooperative Automated Transportation Policy Framework” being developed through Activity #1 could be integrated with the policy frameworks/recommendations developed by each subcommittee.



2019 Action Plan




3 Activities

11 Actions

4 Target
Outcomes

Deliverable Date

September, 2019

- **Activity #2:**
 - » Develop project selection criteria and discuss potential funding approaches to enable the selection of near-term pilot deployment proposals and projects.
- **4 Actions:**
 - » Evaluate and build upon the Pilot Evaluation Scorecard criteria developed by  Seattle Department of Transportation  SOUNDTRANSIT  King County METRO
 - » Evaluate grant criteria from existing Federal, State and WSDOT grant programs
 - » Incorporate recommendations from Activity #1
 - » Assess the feasibility of the new criteria against deployment scenario priorities identified by the subcommittee
- **1 Target Outcome**
 - » Develop new project selection criteria recommendations for consideration by existing grant programs to enable near-term pilot deployments.

2019 Action Plan

3 Activities

11 Actions

4 Target
Outcomes

Deliverable Dates

Action 1, September, 2019

Action 2, December, 2019

- **Activity #3:**
 - » Partnership and Collaboration discussions with the private sector companies who are self-certified to test autonomous vehicles in WA State via the Department of Licensing process as of June 1, 2019.

- **Action 1:**
 - » Engage in a collaborate discussions: Contact all companies who are self-certified to test autonomous vehicles in WA State via the Department of Licensing process.
 - » Knowledge gained will inform Activities #1 and #2

Self-certified companies

- Drivent LLC
- Dooblai LLC
- Galilei
- May Mobility
- Navya Inc
- NVIDIA Corporation
- PACCAR Inc.
- Peloton Technology, Inc.
- Simple Solutions
- TORC Robotics
- Waymo LLC

- **Target Outcome Action 1:** Summary of information gathered
-

- **Action 2:**
 - » Compile a Year-end report on SAE Level 1 and 2 Driver Assistive Truck Platooning Testing and Pilot Deployment Activity in WA during 2019

- **Target Outcome Action 2:** Produce a year-end 2019 report

Related National Activity / Discussion

Infrastructure Owner Operator (IOO) Guiding Principles



- **Infrastructure Owner Operator Guiding Principles for Connected Infrastructure supporting Cooperative Automated Transportation**
 - » Lead partners: Institute of Transportation Engineers (ITE),
 - » Intelligent Transportation Society of America (ITS America), and
 - » American Association of State Highway Transportation Officials (AASHTO)

Related National Activity / Discussion

Infrastructure Owner Operator (IOO) Guiding Principles



5 Guiding Principles

- 1. Automation:** Support increased vehicle automation to improve traveler safety, mobility, equity, and efficiency.
- 2. Data:** Achieve a connected vehicle ecosystem that enables reliable, secure V2I data exchanges in order to support cooperative automated transportation.
- 3. Telecommunications:** Protect and utilize the 5.9 Gigahertz (GHz) spectrum designated for *“operations related to the improvement of traffic flow, traffic safety and other intelligent transportation service applications”* (FCC)
- 4. Operations:** Develop CAT strategies that enhance existing transportation system operational capabilities.
- 5. Collaborations:** Collaborate and communicate with OEMs and mobility service providers in the planning, testing, and demonstrations of CAT applications to support eventual interoperability and to achieve positive impacts on safety, mobility, and efficiency.

Related National Activity / Discussion

Mobility on Demand Alliance (MOD)



The Mobility on Demand Alliance

COORDINATING AND DEVELOPING SEAMLESS
MOBILITY IN THE UNITED STATES

The Intelligent Transportation Society of America (ITS America) created the Mobility on Demand (MOD) Alliance to help determine what the future of mobility should look like, striving for a world that is safer, greener and smarter. The MOD Alliance brings public, private, and academic sector stakeholders together to promote the benefits of MOD and address obstacles hindering its development.



Mobility on
Demand Alliance

www.modalliance.org