



State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

ADDENDUM #4

RFI #7553496 **TITLE: CONNECTED & AUTONOMOUS VEHICLES/OTHER
TRANSPORT SYSTEM TECH FRAMEWORK-IMPLEMENTATION**

SUBMISSION DEADLINE: 10/4/17 – 11:30 a.m.

See attached.

A handwritten signature in cursive script, appearing to read "Lisa Hill".

Lisa Hill
Chief Buyer

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
RIDOT Addendum Notification

7553496 – RFI for Connected and Autonomous Vehicles and Other Innovative Transport System Technologies Framework for Implementation and Integration

Per the issuance of the Rhode Island Department of Transportation **ADDENDUM # 7553496A4** the following changes are noted:

- **UPDATED EXPOSITION INFORMATION, WEBSITE, & REGISTRATION FORM**

Electronic copies of an updated Announcement and Draft Agenda as well as an Exhibitor Registration Form for the September 14-15 2017 Rhode Island Transportation Innovation Partnership Exposition are attached.

- **REVISION TO ORIGINAL RFI DATED 6/7/17**

Page 6 of 8 of the original RFI has been revised per the attached.

APPROVED:



Robert Rocchio, P.E.
Acting Chief Engineer

8/30/17

DATE

UPDATED EXPOSITION INFORMATION, WEBSITE, & REGISTRATION FORM

The Rhode Island Transportation Innovation Partnership Exposition (Expo) Announcement and Draft Agenda that were included with Addendum # 3 on 8/4/17 shall be replaced with the attached versions, which have been revised and updated to show the latest information.

A website devoted to the Rhode Island Transportation Innovation Partnership is online and viewable at <http://www.dot.ri.gov/projects/TRIP/>.

Also attached is a copy of the **Exhibitor Registration Form** that should be completed by all parties intending to exhibit or showcase their products or services at the Expo. Instructions for submitting the Form are indicated at the bottom of the Form.

REVISION TO ORIGINAL RFI DATED 6/7/17

Page 6 of 8 of the original RFI has been revised per the attached.

- End -



Transportation Innovation Partnership

SEPTEMBER 14-15, 2017 RHODE ISLAND TRANSPORTATION INNOVATION PARTNERSHIP EXPO

Be a part of the [Request for Information \(RFI\)](#) conversation and participate in an interactive event where you can see the testing grounds for new and emerging transportation technologies.

Visit potential sites for RI's smart corridors

.....

Participate in discussions on infrastructure planning, workforce changes and more

.....

Learn why the smallest state is the ideal testing environment

.....

Exhibitors RSVP:

pamela.cotter@dot.ri.gov



RHODE ISLAND TRANSPORTATION INNOVATION PARTNERSHIP EXPO



This September, Rhode Island is hosting an Expo on Connected and Autonomous Vehicles (CAV) and other innovative transportation systems technology at the New England Institute of Technology campus in East Greenwich, RI. The purpose of the Expo is to welcome potential partners to learn about opportunities within the state, showcase their ideas, and connect with prospective collaborators, with a focus on creating successful pilot programs, through public, private and academic partnerships. The Expo will include a day of panel discussions, followed by a second day of site visits to potential pilot locations.

PANEL DISCUSSIONS

- **Opportunities for Partnerships and Solutions in the Ocean State**
Build public-private partnerships to test, evaluate, and integrate innovative transport systems.
- **Integrating Infrastructure Planning with Accelerated Technology**
Examine integrated infrastructure planning. What comes first, the car or the road?
- **Mobility as a Service “MaaS” and On-Demand Ride Sharing**
Discuss ideas for serving travelers along their first and last mile.
- **Learning from Other States and Global Partners**
Sharing of best practices for innovative systems from the U.S. and around the world.
- **Workforce Opportunities and Challenges**
How Rhode Island can prepare its workforce to compete in a world of emerging transportation technologies.
- **Safety, Liabilities, Risk Assessment, and Insurance**
Consider risk management strategies as innovative transport technologies emerge.
- **Environmental Considerations in the Age of CAVs**
Explore the environmental implications of ride sharing and electrification.

SITE VISITS TO PILOT LOCATIONS

- **City of Pawtucket** with connectivity to the upcoming Pawtucket/Central Falls Transit Center, and/or the intercity bus terminal in Providence.
- **City of Providence** Smart Transportation Corridors, encompassing the new LINK District and intermodal transit hubs in Providence Station and the Hospital District.
- **Quonset Business Park** managed by the Quonset Development Corporation, is one of the premiere business parks in New England, home to almost 200 companies, and employs more than 10,000 people across a variety of industries. The Port of Davisville at Quonset is one of the top ten auto importers in North America.
- **University of Rhode Island** Kingston Campus roadway network, with potential connectivity to the Amtrak Kingston Train Station and the Wickford Junction Commuter Rail Train Station.
- **Shoulders for Transit** is the potential use of shoulders in interstate corridors throughout Rhode Island as a dedicated lane for Autonomous Transit vehicles.

[REGISTER FOR THE RHODE ISLAND TRANSPORTATION INNOVATION PARTNERSHIP EXPO](#)

September 2017 Rhode Island Transportation Innovation Partnership Expo

WORKING DRAFT (August 29, 2017)

| September 14, 2017 | | | |
|--|--|--|--|
| Rhode Island Transportation Innovation Partnership Expo PANEL DISCUSSIONS and OPEN EXPO | | | |
| 8:00 – 8:30 AM | Welcome and Introductions | | |
| 8:15 – 9:30 AM | Opportunities for Partnerships & Solutions in the Ocean State | <p>Panelists will share plans, and ideas on how to effectively partner with private sector and/or other public entities to test, evaluate, and integrate innovative transport systems such as connected and autonomous vehicles into a sustainable and fiscally sound transportation system in Rhode Island.</p> <p>Discussion on opportunities and thoughts on what needs to be in place to support and spur innovation in the deployment of transport system technology in RI.</p> | |
| 9:30 – 10:30 AM | Integrating Infrastructure Planning with Accelerated Technology | <p>What comes first, the car or the road? This panel will explore the questions that arise in merging space and the cars, and in integrating infrastructure planning and accompanying government processes with innovations in vehicle technology.</p> <p>Discussion on how public and private investments might or should be made now to provide full lifecycle value to all parties.</p> | |
| 10:30 – 11:00 AM | Break & Expo | | |
| | | | |
| 11:00 AM – 12:00 Noon Breakout Session 1 | Mobility as a Service “MaaS” and On-Demand Ride Sharing | <p>Mobility as a Service and On Demand Ride Sharing could be significant disruptors in the transit and transport industry.</p> <p>Panelists will share insight on the planning, testing, and implementation of such services in Rhode Island, with a discussion on ideas/plans for serving travelers in areas that are not currently served by existing public transit services.</p> | |
| 11:00 AM – 12:00 Noon Breakout Session 1 | Learning from other states and global partners | <p>Sharing of best practices from around the United States and the world that might be relevant to Rhode Island.</p> <p>This panel will also provide an opportunity to discuss global experiences and lessons learned from abroad.</p> | |
| 12:00 – 12:30 PM | Morning Wrap-up | | |

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| 12:30 – 1:00 PM | Lunch | | |
| 1:00 – 1:30 PM | Keynote Speaker | | |
| 1:30 – 2:30 PM | Workforce Opportunities & Challenges | Experts and local leaders will share insight on the anticipated impact of CAV and other innovative technologies on the existing workforce (e.g., bus drivers, taxi drivers, truck drivers, mechanics, technicians and others), what new jobs and Knowledge, Skills and Abilities (KSA) are expected to be needed/created to support CAV, and how Rhode Island can/should best prepare to train its workforce to be competitive with the integration of CAV. | |
| 2:30 – 3:00 PM | Break & Expo | | |
| | | | |
| 3:00 – 4:00 PM Breakout Session 2 | Safety, Liabilities, Risk Assessment, and Insurance | Public sector and industry experts will discuss the challenges and opportunities facing assessing liability and measuring the cost of risk as technology changes rapidly. The discussion will consider implications for the public sector (e.g. safety enforcement), for manufacturers, and for the automotive insurance industry as CAV and other innovative transport technologies emerge. | |
| 3:00 – 4:00 PM Breakout Session 2 | Environment | Emerging technologies such as connected and autonomous vehicles, ride-sharing, and increased electrification carry environmental consequences in areas ranging from emissions to land use. This discussion will explore the interaction between some of these factors within the state context. For example, how might the transference of emissions from multiple small sources (vehicles) to single source points (power plants) through increased electrification, and pursuant to ZEV, impact energy consumption? How could ride-sharing and other changes in use patterns affect idling, total cars on the road, and other factors? Are there ways to measure those impacts in a defined geography like Rhode Island that could be helpful in better understanding these impacts more broadly? | |
| 4:00 – 4:30 PM | Afternoon Wrap-Up | | |
| 4:30 PM | Closing Remarks | | |
| 5:00 PM | Open Expo and Reception | | |

September 15, 2017

PARTNERSHIPS: the second day of the expo will focus on a series of site visits so that participants can see potential opportunities in person. Prospective "site sponsors" will be asked to prepare a brief interactive presentation.

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|------------------|--|--|--|
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| 8:00 AM | Check-in & Registration | RI Convention Center | |
| 8:15 AM | Introduction | Welcome – Summary of Itinerary | |
| 8:45 AM | Bus Loading | | |
| 9:00 AM | Depart Convention Center for QBP through Providence, Central Falls and Pawtucket | Providence → Pawtucket → Central Falls → I-95 South (Shoulder Corridors) → Route 4 South (Shoulder Corridors) → Route 403 → QBP | |
| | | City of Providence Smart Transportation Corridors, especially encompassing the new LINK District and intermodal transit hubs at the Providence Amtrak/MBTA station and the Hospital District. | |
| | | Cities of Central Falls and Pawtucket with potential connectivity to the upcoming Pawtucket/Central Falls Transit Center and/or the intercity bus terminal in Providence. | |
| 11:00 PM | Arrival at QBP | | |
| 11:00 – 11:45 PM | Boxed Lunch and Break | | |
| 11:45 PM | Bus Loading | | |
| 12:00 PM | QBP Tour | Quonset Business Park is one of the premiere business parks in New England. Managed by the Quonset Development Corporation, it is home to almost 200 companies, employing more than 10,000 people in full-and part-time jobs across a variety of industries. The Port of Davisville at Quonset is one of the top ten auto importers in North America. | |
| 1:00 PM | Departure for URI | QBP → US 1 → Route 102 → Wickford Train Station → Route 2 South → Route 138 → AMTRAK Kingston Train Station → URI Kingston Campus | |
| 1:45 PM | Arrival at URI | | |
| 1:45 PM | URI Kingston Campus Tour | University of Rhode Island Kingston Campus roadway network, with potential connectivity to the AMTRAK Kingston Train Station and the Wickford Junction Commuter Rail Train Station. The Kingston Campus serves as a resource for learning, research and partnerships in a statewide and regional context as a generator of economic consequence and as a destination in a transit based system. The campus is connected to a network of satellite campuses and land holdings from the Narragansett Bay Campus to the Feinstein Providence Campus, the new Nursing Education Center in Providence, as well as the W. Alton Jones Campus, and Peckham Farm. The University is also engaged with partners in local industries beyond the campus where growing connectivity is key | |
| 2:45 – 3:15 PM | BREAK | | |
| 3:15 PM | Bus Loading | | |
| 3:30 PM | Departure for Providence | Route 138 → US 1 → Route 4 North → I-95 North → Convention Center | |
| 4:30 PM | Arrival at Convention Center | | |
| | Shoulders for Transit | Potential use of shoulders in interstate corridors throughout Rhode Island as a dedicated lane for Autonomous Transit vehicles | |

September 15, 2017

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|--|---------|---------------------------------------|--|--|
| | | | | |
| | 8:30 AM | Introduction | | |
| | | Cities of Central Falls and Pawtucket | Cities of Central Falls and Pawtucket with potential connectivity to the upcoming Pawtucket/Central Falls Transit Center and/or the intercity bus terminal in Providence. | |
| | | City Providence | City of Providence Smart Transportation Corridors, especially encompassing the new LINK District and intermodal transit hubs at the Providence Amtrak/MBTA station and the Hospital District. | |
| | | Quonset Business Park | Quonset Business Park is one of the premiere business parks in New England. Managed by the Quonset Development Corporation, it is home to almost 200 companies, employing more than 10,000 people in full-and part-time jobs across a variety of industries. The Port of Davisville at Quonset is one of the top ten auto importers in North America. | |
| | | University of Rhode Island | University of Rhode Island Kingston Campus roadway network, with potential connectivity to the AMTRAK Kingston Train Station and the Wickford Junction Commuter Rail Train Station. The Kingston Campus serves as a resource for learning, research and partnerships in a statewide and regional context as a generator of economic consequence and as a destination in a transit based system. The campus is connected to a network of satellite campuses and land holdings from the Narragansett Bay Campus to the Feinstein Providence Campus, the new Nursing Education Center in Providence, as well as the W. Alton Jones Campus, and Peckham Farm. The University is also engaged with partners in local industries beyond the campus where growing connectivity is key | |
| | | Shoulders for Transit | Potential use of shoulders in interstate corridors throughout Rhode Island as a dedicated lane for Autonomous Transit vehicles | |



RI Transportation Innovation Partnership Expo | September 15, 2017

Exhibitor Registration Form

Full Name (please print) _____

Company / Agency _____

Mailing Address _____ City _____ State _____ Zip _____

Phone _____ E-mail _____

Your organization's main message at this expo will be:

Your exhibit will feature (check all that apply):

- Handouts/Brochures/Posters.....
- Product Display.....
- Interactive Experience.....
- Connected and Autonomous Vehicle.....

Please note that all exhibitors will be provided with one table.

Please indicate additional exhibit space if you require such:

Do you need (circle one): Electricity? Yes No Internet Access? Yes No

Notes:

1. Send this registration form to Pamela Cotter via mail at RIDOT: Two Capitol Hill, Providence, RI 02903 or via email at pamela.cotter@dot.ri.gov
2. Questions? Please contact Steven Kitchin at skitchin@NEIT.EDU



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The State welcomes ideas and recommendations from interested or potentially interested parties, including organizations with a commercial interest in CAVs and/or other innovative transport system technologies related to the transportation of people and goods, such as on-demand ride sharing services, high speed intercity and inter-suburb transporter technology, and others. Potential respondents are encouraged to collaborate in offering ideas and recommendations. Respondents are not required to submit responses pertaining to all of the requested information herein. The Issuer encourages interested parties to respond to any and all aspects of this RFI relevant to their interests and expertise.

For respondents who offer innovative transport system technologies such as CAV technology, on-demand ride sharing services, high speed intercity and inter-suburb transporter technology, and other technological, research, or administrative products or services: You are encouraged to conceptually propose how you envision a proof-of-concept or pilot CAV or on demand ride sharing service deployment in any of the following locations or elsewhere in Rhode Island would serve to support and/or resolve issues noted in Topics 1 thru 6 above:

1. City of Providence Smart Transportation Corridors, especially encompassing the new LINK District and intermodal transit hubs at the Providence Amtrak/MBTA station and the Hospital District.
2. Cities of Central Falls and Pawtucket with potential connectivity to the upcoming Pawtucket/Central Falls Transit Center and/or the intercity bus terminal in Providence.
3. Quonset Business Park employee transportation options to and within the Park district as well as business/manufacturing applications relating to nearly 200 companies and the Port of Davisville, with potential connectivity to the Wickford Junction Commuter Rail Train Station
4. University of Rhode Island Kingston Campus roadway network, with potential connectivity to the AMTRAK Kingston Train Station and the Wickford Junction Commuter Rail Train Station. The Kingston Campus serves as a resource for learning, research and partnerships in a statewide and regional context as a generator of economic consequence and as a destination in a transit based system. The campus is connected to a network of satellite campuses and land holdings from the Narragansett Bay Campus to the Feinstein Providence Campus, the new Nursing Education Center in Providence, as well as the W. Alton Jones Campus, and Peckham Farm. The University is also engaged with partners in local industries beyond the campus where growing connectivity is key;
5. Potential use of shoulders in interstate corridors throughout Rhode Island as a dedicated lane for Autonomous Transit vehicles.

3.0 SUBMISSION REQUIREMENTS AND DUE DATE

Respondents are asked to provide, by the stated deadline, written responses to the questions posed above in a concise, single spaced summarized format, on 8 ½" by 11" paper with 1" margins using Calibri or Times New Roman 12 font.

Respondents may be invited to an exploratory interview to discuss the submitted responses in more detail. Contact to schedule the selected exploratory interviews will be made following the closing date for submissions under this RFI.

Requested documentation "**ONE (1) ORIGINAL plus FIVE (5) COMPLETE COPIES**" is to be either mailed or hand-delivered in a sealed envelope clearly marked "*RFI #7553496: Connected and Autonomous Vehicles*"