



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 #1**

**RFI# 7553496      TITLE: CONNECTED AND AUTONOMOUS VEHICLES AND OTHER  
INNOVATIVE TRANSPORT SYSTEM TECHNOLOGIES  
FRAMEWORK FOR IMPLEMENTATION AND INTEGRATION**

**SUBMISSION DEADLINE:      JULY 12, 2017 – 11:30 A.M.**

- 
- Attendance sheet from pre-proposal conference held on June 19, 2017 is attached.
  - A copy of the RIDOT Power Point presented at the pre-proposal meeting held on 6/19/17 is attached.
  - Clarifications/Questions/Comments from the pre-proposal meeting held on 6/19/17 is 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 # 7553496A1 the following changes are noted:

- PRE-PROPOSAL MEETING Q&A

Attached responses 1 through 10 will clarify questions/comments discussed at the Pre-Proposal Meeting held on June 19, 2017.

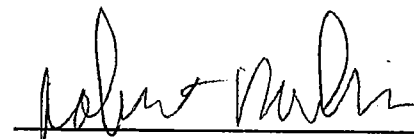
- ATTENDANCE SHEET

Courtesy copy of Attendance Sheet from Pre-Proposal Conference held on June 19, 2017.

- POWER POINT PRESENTATION

Electronic copy of RIDOT Presentation discussed at Pre-Proposal Conference held on June 19, 2017.

APPROVED:



Robert Rocchio, P.E.  
Acting Chief Engineer

6/22/17

DATE

ADDENDUM # 7553496A1  
RI Department of Transportation  
June 22, 2017

**TO ALL RESPONDENTS:**

RIDOT is soliciting a **Request for Information (RFI)** that is not solely limited to Connected and Autonomous Vehicles (CAV) but also seeks industry input on other innovative transport systems technologies and how to incorporate such technologies into RIDOT's long term infrastructure planning process.

A copy of the presentation provided during the Q&A forum by Christos Xenophontos, Assistant Director for RIDOT is attached.

Interested parties and potential respondents are encouraged to collaborate in offering ideas and recommendations. It is not a requirement to answer all questions requested in the RFI but all are encouraged to respond to any and all aspects of the RFI relevant to their interests and expertise.

**ADDITIONAL PUBLIC HOSTINGS**

Given the broad and far reaching interest in this subject, RIDOT will be holding a second Pre-Proposal Meeting at a later date to include remote conference call ability for those who cannot attend in person. Notification of date/time and location of meeting as well as call in number and access code will be made available in a future addendum to this RFI.

RIDOT is also working on hosting an Expo as part of this initiative at a date to be held later this year. Specific information regarding the scheduled Expo shall also be provided in a future Addendum as part of this RFI. RIDOT asks that parties interested in attending the Expo please RSVP in your RFI response so the appropriate venue and accommodations can be made. Anticipated timeline is September 2017.

All information gained through the RFI responses and Expo demonstrations will be evaluated by RIDOT to then determine the next procurement steps toward achieving this technological goal.

**DUE DATE AND ON-LINE Q&A**

It is stated in the RFI that an "**ORIGINAL**" plus **FIVE (5) COPIES** of Proposal submissions should be sent to the Department of Administration Office of Purchases by *JULY 12, 2017 no later than 11:30 AM*. Submission package should be clearly labeled as to *Bid # and Project Description*. However, a due date extension is planned and will be specified in an upcoming Addendum. Q & A Portal question submission deadline will also be revised based on Due Date extension.

1. Q. Is there an approximate page limitation for proposal submissions in response to this RFI?  
  
A. ***NO. RIDOT wishes to allow for Respondents to provide any and all useful information in response to this RFI.***
  
2. Q. Would references or links to full reports also be accepted in RFI response?  
  
A. ***YES.***
  
3. Q. Can RIDOT please share any previous conversations held at the State and/or Federal levels relative to this subject as well as any State legislation specific to this initiative?

**ADDENDUM # 7553496A1**  
**RI Department of Transportation**  
**June 22, 2017**

**A. There are no formal conversations between RIDOT and the Federal Government on the subject of this RFI that will be shared. However, RIDOT does work in partnership with the FHWA on many matters associated with this RFI and has shared the RFI with both the FHWA as well as the Volpe Center. No State legislation specific to this initiative will be shared, as the RFI is seeking information that will help it identify any legislative/regulatory gaps and ways in which existing laws can be improved or revised in order to foster innovation in transportation. While we anticipate that the Federal Government will continue to regulate vehicle safety and the State will continue to regulate roadway vehicle operation, registration, and taxation in the near term, CAVs and other emerging technologies will require new legislation, hence the RFI seeks information and suggestions on how the State might best develop such new laws.**

4. Q. Has there been any conversation with RIPTA to align RIDOT with their strategic planning efforts?

**A. RIDOT has also shared the RFI with RIPTA and is partnering with RIPTA on many initiatives. At this time however there is no formal agreement in place.**

5. Q. Does RIDOT envision a defined number of passengers per vehicle?

**A. NO. RIDOT is open to suggestion on design/capacity of vehicles.**

6. Q. There is a reference to 10% MBE Requirement for this Project. Can we assume this would be assigned to the RFP to be issued?

**A. YES. The goal would be assigned based on the final scope presented and the availability of Minority and Disadvantaged Businesses relative to the services defined.**

7. Q. Does RIDOT plan to implement these services in their current 10-YEAR Plan?

**A. RIDOT hopes to initiate a Pilot Program in the State but this would be dependent on the industry knowledge gained through this RFI and generated through issuance of a future RFP. RIDOT is looking for initiatives that can be implemented in the immediate future.**

8. Q. Will RIDOT use the information presented at the anticipated Expo in their transportation planning efforts or is the Expo planned to provide a broader outreach for industry input?

**A. RIDOT's purpose for the anticipated Expo is to give Vendors an opportunity to talk with the State's stakeholders and for the local industry to share information with those in attendance.**

9. Q. What factors determined the 5 RI Locations explicitly noted in the RFI (Providence, Pawtucket, Quonset, URI and usage on Interstate Corridor Shoulders)?

**A. Determinations were made based primarily on conversations with the internal RIDOT team and stakeholders and then expanding on the areas proposed to define locations. Other locations in or across the State are open to ideas and concepts that can be proposed via a submittal to this RFI.**

**ADDENDUM # 7553496A1**

**RI Department of Transportation**

**June 22, 2017**

10. Q. Is there an implementation timeline anticipated?

A. *Timing is not definitive but RIDOT hopes to have something in the planning stages within the immediate future. We hope that RI being a small but densely developed and populated State will offer the opportunity to implement multiple solutions within different infrastructures and see how they interconnect. RIDOT hopes to become an industry leader in the use of technology in future transportation planning initiatives.*

- End -



State of Rhode Island  
 Division of Purchases  
 One Capitol Hill  
 Providence, RI 02902

**"NON-MANDATORY" PRE-BID CONFERENCE SIGN IN SHEET**

**BID NUMBER:** 7553496  
**BID TITLE:** RFI for Connected and Autonomous Vehicles and Other Innovative Transportation System Technologies Framework for Implementation and Integration.  
**PRE-BID DATE AND TIME:** RIDQA Conference Room B on June 19, 2017 at 10:00 AM

Purchasing Representative: *LF*

Pre-bid START TIME: 10:05

Pre-bid END TIME: 10:40

| COMPANY NAME          | COMPANY REPRESENTATIVE | ADDRESS                                | CONTACT E-MAIL                | CONTACT PHONE NUMBER | CONTACT FAX NUMBER | PROPOSAL SUBMITTED (For Purchasing Use Only) |
|-----------------------|------------------------|--|-------------------------------|----------------------|--------------------|--|
| IBF Group             | Hasti Tajtehrani       | 21 Custom House St - Boston            | hasti.tajtehrani@ibfgroup.com | 781-539-5067         |                    |  |
| WSP                   | K.R. Marshall          | 1 E. Pratt St. #300 Baltimore MD 21202 | KR.Marshall@wsp.com           | 410-864-1083         | 410-727-4608       |  |
| Ocean State Sign      | Lisa Ruthford          | 27 Timber Blvd Smithfield RI           | L.Ruthford@oceanstatesign.com | 401-231-6780         | 401-231-4390       |  |
| "                     | MATT PIERCE            | "                                      | "                             | "                    | "                  |  |
| Cambridge Systematics | Maty Milkovits         | 101 Station Inland Medford, MA         | mmilkovits@camssys.com        | 617-710-6568         |                    |  |
| Michael Baker         | Toni Marie Kyjalko     | 140 Corporate Blvd Wrentham MA         | Toni.P.Kyjalko@mba.com        | 508-479-4900         |                    |  |
| TRAFFIC OPTIONS       | JOHN COLANGELO         | 493 ANCELOT ST WATENTOWN MA 02472      | TRAFIC@TRAFFICOPTIONS.COM     |                      |                    |  |
| AEICOM                | CHRIS CHECKER          | 250 Apollo Drive Chelmsford MA 01824   | Chris.checker@aeicom.com      | 978-905-2125         |                    |  |
| RIDOT                 | Russell Holt           | 2 Capitol Hill, Room 308               | russell.holt@ridot.org        | (401) 222-2694       |                    |  |
| TMC/Jacobs            | Dan Herstine           | 166 Valley St                          | daniel.herstine@jacobson.com  | 401-333-9225         | 401-333-9225       |  |
| Radio & Ursillo       | Joe Radio              | 86 Weybosset St.                       | JRadio@radio.com              | 401-333-2352         |                    |  |
| Transdev Services Inc | Paul Bannon            | 6 Blackstone Valley R.                 | pbannon@beta-inc.com          | 401-648-6711         |                    |  |
| BETA Group            | Francis Lorman         | 14 Break Neck Rd West Greenwich RI     | florman@beta-inc.com          | 401-749-3776         | 401-874-2491       |  |
| McKelon Assoc.        | W. Michael Sullivan    | 35 CLIFF DR WARRINGHAM RI 02883        | WSULLIVAN@MCKELON.COM         | 401-465-2800         |                    |  |
| REL Bus Holdings LLC  | R. B. ASI              | C-RENVILLE RI                          | R.B.ASI@TRAFFICSYSTEMSINC.COM | 401-222-6940         |                    |  |
| TRAFIC SYSTEMS        | RIDOT                  | 2 Capitol Hill                         | diane.budonick@ridot.org      | ext 4024             |                    |  |
| Diane Budonick        |                        |  |                               |                      |                    |  |



State of Rhode Island  
 Division of Purchases  
 One Capitol Hill  
 Providence, RI 02908

**"NON-MANDATORY" PRE-BID CONFERENCE SIGN IN SHEET**

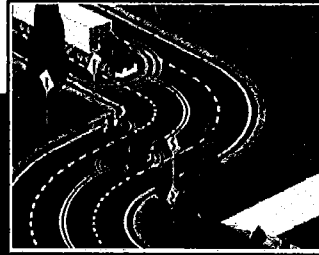
**BID NUMBER:** 7553496  
**BID TITLE:** RFI for Connected and Autonomous Vehicles and Other Innovative Transportation System Technologies Framework for Implementation and Integration  
**PRE-BID DATE AND TIME:** RIDOA Conference Room B on June 19, 2017 at 10:00 AM

**Purchasing Representative:** LH  
**Pre-bid START TIME:** 10:05  
**Pre-bid END TIME:** 10:40

| COMPANY NAME          | COMPANY REPRESENTATIVE | ADDRESS                                      | CONTACT E-MAIL               | CONTACT PHONE NUMBER | CONTACT FAX NUMBER | PROPOSAL SUBMITTED (For Purchasing Use Only) |
|-----------------------|------------------------|--|------------------------------|----------------------|--------------------|--|
| 17 Mayfarth Group     | Anthony Chern          | 111 Weyland Ave<br>10000 51<br>Providence RI | ajchern@mayfarthgroup.com    | 401-331-1750         | /                  |  |
| 18 VHB                | Peter PAVAO            | 600 VINE ST. 04<br>SUITE 1400 - CIVILIAN     | ppavao@vhb.com               | 401-457-2056         | /                  |  |
| 19 FirstGroup Transit | Joseph Holmes          |  | Joseph.holmes@firstgroup.com | +1 603 661 4690      | /                  |  |
| 20 RIDOT              | Fawn Cotter            | 2 Capitol Hill                               | Fawn.Cotter@dot.ri.gov       | X4024                |                    |  |
| 21 RIDOT              | Christos Xenophontos   | 2 Capitol Hill                               | cxenos@dot.ri.gov            | 222-2495             |                    |  |
| 22 RIDOT              | Shoshanna Lear         | 2 Capitol Hill                               | shshanna.lear@dot.ri.gov     | 222-2495             |                    |  |
| 23                    |                        |  |                              |                      |                    |  |
| 24                    |                        |  |                              |                      |                    |  |
| 25                    |                        |  |                              |                      |                    |  |
| 26                    |                        |  |                              |                      |                    |  |
| 27                    |                        |  |                              |                      |                    |  |
| 28                    |                        |  |                              |                      |                    |  |
| 29                    |                        |  |                              |                      |                    |  |
| 30                    |                        |  |                              |                      |                    |  |
| 31                    |                        |  |                              |                      |                    |  |
| 32                    |                        |  |                              |                      |                    |  |

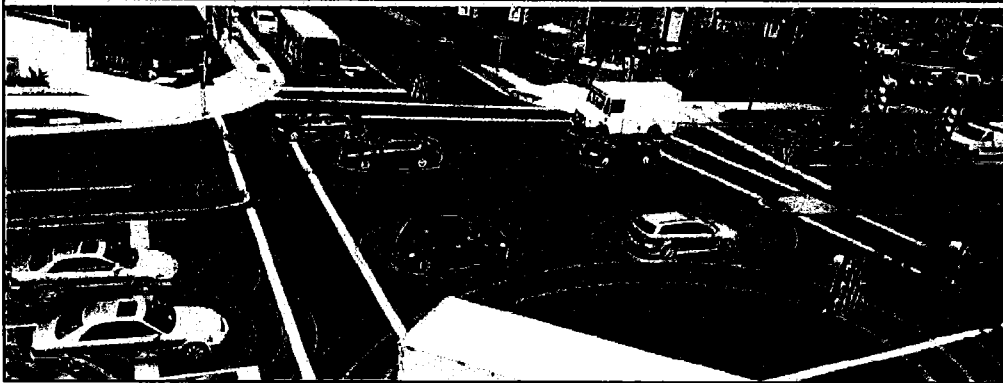


**DRAFT**



**Seeking Proposals for Next-Generation  
Transportation Systems, Including  
Autonomous Vehicles**

RIDOT Request for Information (RFI) 7553496

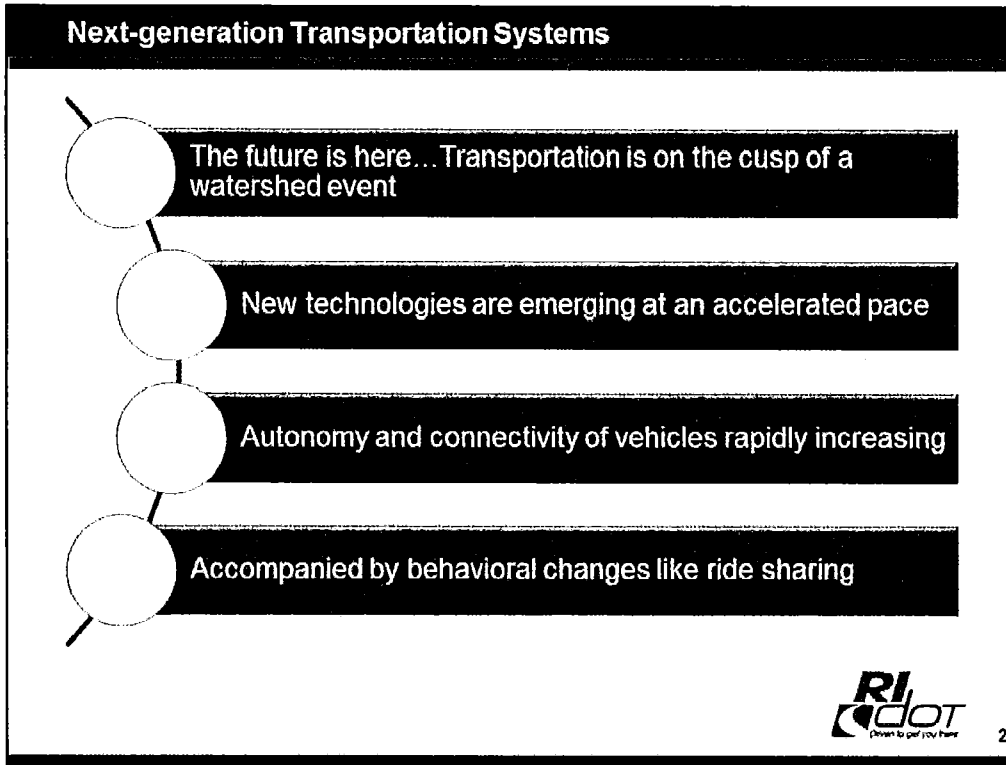


Good morning and welcome to the Q&A session for RIDOT's Request for Information on Next-Generation Transportation Systems, Including Autonomous Vehicles - (RFI) 7553496

My name is Christos Xenophontos and I am the Assistant Director for RIDOT. I have with me the talented and diverse internal team of RIDOT folks that has worked together to put this RFI out in a very short period of time.

Before we begin I would like to go around and let everyone introduced themselves...



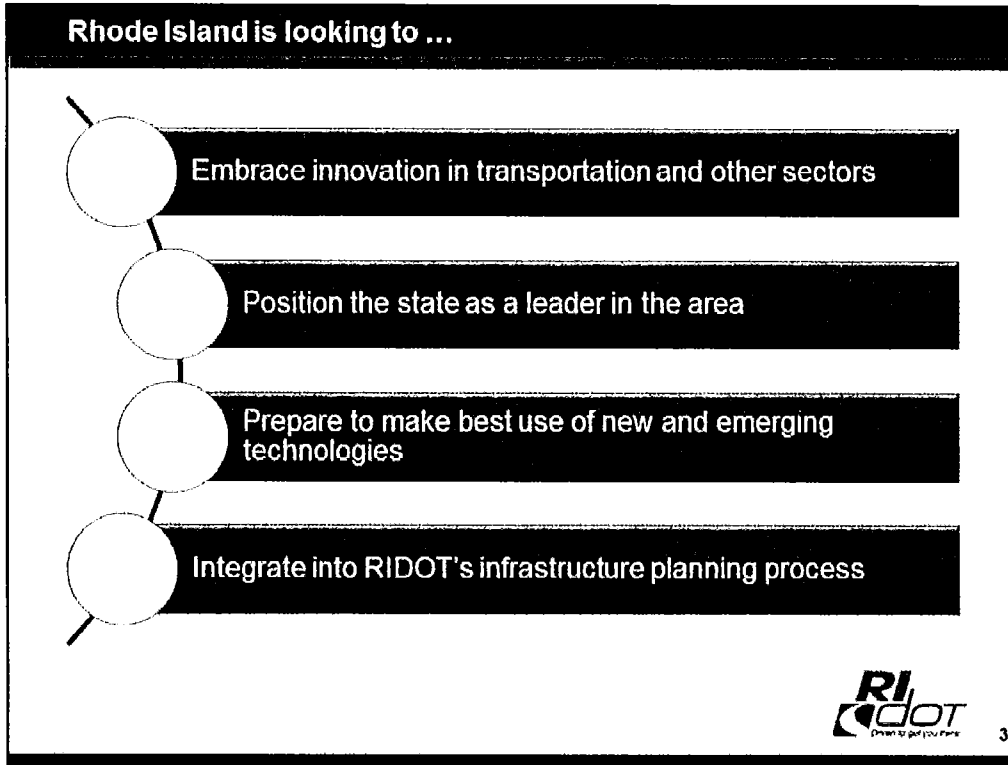


History is repeating itself. We are at the same point in history as at the beginning of the 20<sup>th</sup> century. The automobile is about to reinvent the transportation of people and good as we know it for a second time.

We know that the future is already here and that not only new technologies are emerging at an accelerated pace, but also that expectations and travel behavior of our customers and stakeholders is rapidly changing.

The Director has been asking us about what do we need to do in order to be ready for what is coming.

At the same time in early April we hosted a group of international experts from the World Road Association for a working meeting and we took the opportunity to have a mini-summit on Connected and Autonomous Vehicles. What we learned from the summit is that we need to seize the opportunity and be proactive in this arena.



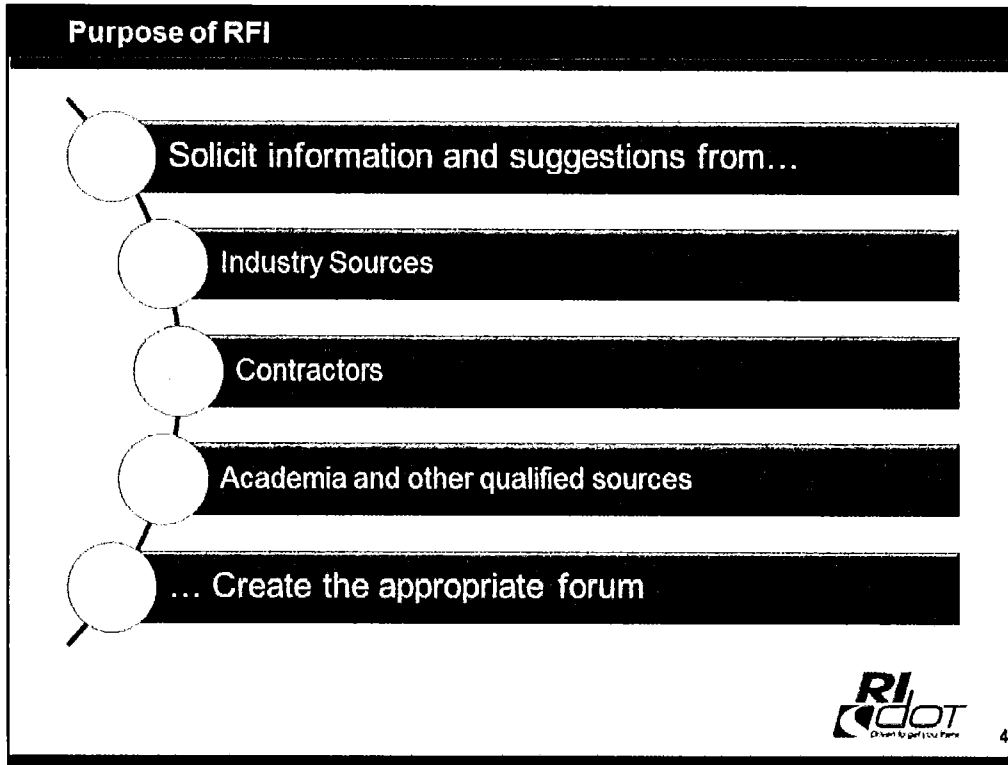
With a vision toward the future Rhode Island is therefore looking to ...

...Embrace Innovation

...Position the state as a leader in this area

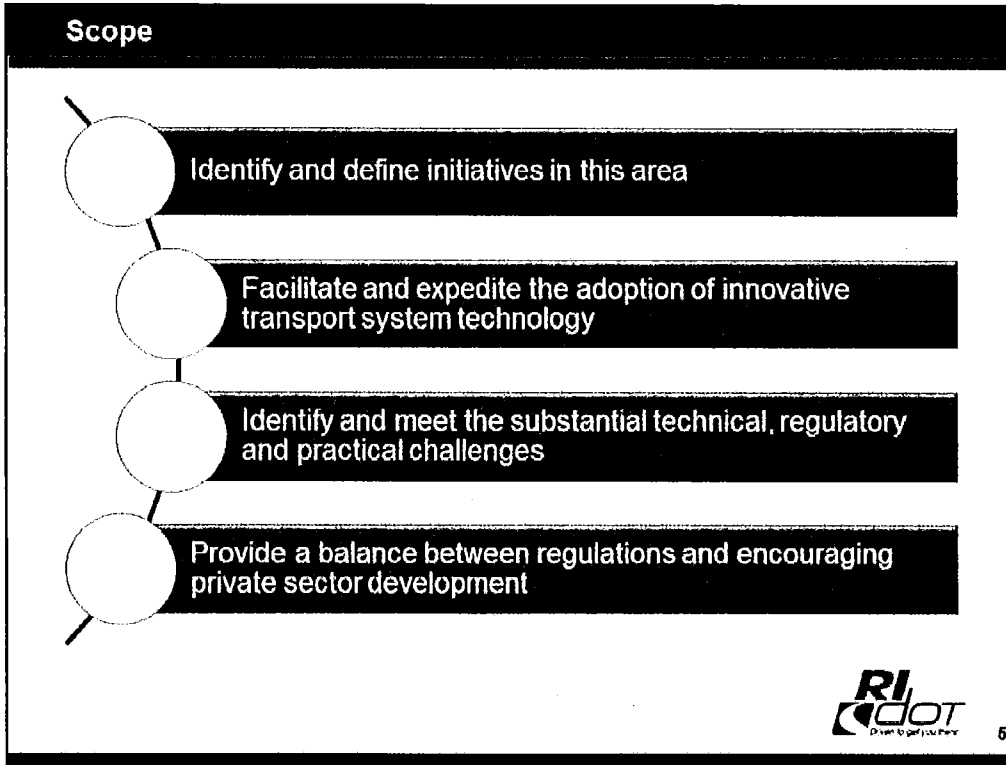
...Be prepared to make the best use of the new technologies

And integrate all of these into our 10-year and long range infrastructure planning process



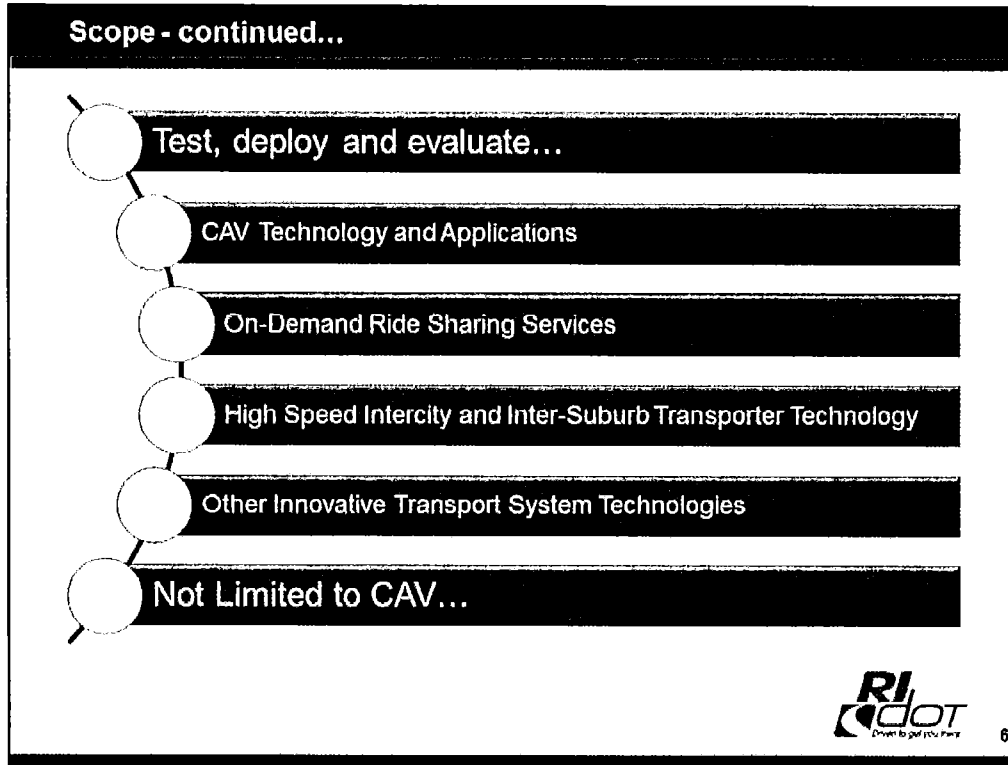
For this reason, RIDOT assembled a diverse team of individuals and issued a Request for Proposals to ...

...Solicit information and suggestions and Create the appropriate forum for the exchange of ideas that could accelerate the implementation of new technologies.



The Scope of the RFI is rather broad. RIDOT is looking to...

- ... Identify and define initiatives in this area
- ... Facilitate and expedite the adoption of new technology
- ... Identify and meet the substantial technical, regulatory and practical challenges and
- ... Provide a balance between regulations and encouraging private sector development



RIDOT is interested in...

Testing, deploying and evaluating...

CAV Technology and Applications

On-Demand Ride Sharing Services

High Speed Intercity and Inter-Suburb Transporter Technology

Other Innovative Transport System Technologies

And I have to stress here that the RFI is Not Limited to CAV...

## RFI Topics

- Topics where RIDOT seeks feedbacks include, but are not limited to:

Opportunities for  
Partnership

The State's capital  
planning and  
execution process

Regional safety  
programs (including  
law enforcement  
and security)

Environmental  
conditions

State law and  
regulations

Workforce and  
professional  
training needs  
within the State



7

In looking at the new technologies out there, we identified six topics that RIDOT would like to get feedback:

...Opportunities for Partnership

...The State's capital planning and execution process

...Regional safety programs (including law enforcement and security)

...Environmental conditions

...State law and regulations

...Workforce and professional training needs within the State

## Opportunities for Partnership

- Explore how the state might effectively partner with private sector and/or other public sector entities and:
  - Identify opportunities for Pilot Programs
  - Create a complimentary environment for deployment with:
    - Nearby jurisdictions / other regions
    - Cities and municipal governments within Rhode Island
    - Academic institutions and technical schools
  - Data, data, data ... what to do with the data
  - Create and enhance opportunities for inclusiveness



## The State's capital planning and execution process

- Integrate long-range capital planning discussions with preparation for CAVs and other innovative transport system technologies and identify:
  - Implications of the proposed technology
  - Infrastructure needs for the proposed technology
  - Lead times for capital projects and technology acquisition
  - What do we invest in now
  - What is the anticipated public and private investment





## Regional safety programs (including law enforcement and security)

- Ensure that integration of new technology will improve safety and begin to identify:
  - Reduction in vehicular, non-motorized and pedestrian crashes
  - Implications of the proposed technology with local and state law enforcement
  - Infrastructure and vehicle security issues (hacking, etc)
  - Adoption of safety and standard regulations for testing autonomous vehicles



Given that the estimated time for vehicle replacement for individuals is about 11 years, it is expected that until 2050 there will be a mixed fleet of vehicles on our roadways.

## Environmental conditions

- Quantify and assess the environmental impact of new technology to produce useful data for both government and industry
  - Evaluate and measure possible emissions / environmental impacts of autonomy
  - Ensure that integration of new technology will not increase emissions to the environment
- How does the proposed technology function under the various environmental and weather conditions

## State law and regulations

- Identify legislative and regulatory gaps
  - Provide a balance between regulations and encouraging private sector development
  - Balance needs of emerging technology with RIDOT's core mission
  - Identify universal rules or regulations
  - Define potential legal issues / liability issues
  - Develop public policy to maximize benefits from deployment



## Workforce and professional training needs within the State

- Preparing workforce to be competitive with the integration of new technologies and identify:
  - Impact of the proposed technology on the existing workforce
  - Type of new jobs that will be created from the proposed technology
  - Social and economic implications of the proposed technology to the transportation/transit workforce
  - Training needs

## PROOF OF CONCEPT

- Conceptually propose 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:

City of Providence  
Smart  
Transportation  
Corridors

City of Pawtucket

Quonset Business  
Park

University of Rhode  
Island Kingston  
Campus roadway  
network

Potential use of  
shoulders in  
interstate corridors



The State is looking to solicit input on the testing, verification, validation, and new innovation relative to CAV and other innovative transport systems technologies and how to incorporate such technologies as a service application in areas that are currently not served by transit.

Responders are encouraged to propose 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:

City of Providence Smart Transportation Corridors

City of Pawtucket

Quonset Business Park

University of Rhode Island Kingston Campus roadway network

Potential use of shoulders in interstate corridors

## Submission Requirements

- Interested parties and potential respondents are encouraged to collaborate in offering ideas and recommendations
- It is not a requirement to answer all questions
  - Interested parties are encouraged to respond to any and all aspects of the RFI relevant to their interests and expertise.
- Alternative approaches and/or methodologies to accomplish the desired or intended results of this RFI are solicited
- The State assumes no responsibility for any costs



Before we open the floor to Questions, I would like to highlight some of the submission requirements.

### Expo and demonstration opportunity

- Responders will be invited to participate in an Expo to be held at a time and location to be determined later
- There is no formal requirements for responders to participate, however they are required to disclose their interest to participate in the Expo as part of their response to the RFI
- Timing of the Expo will be announced prior to the closing of the RFI



RIDOT is also working on the hosting of an EXPO as part of this initiative. More information on the Expo will be made available very soon.

## Final Steps

- Following the RFI and Expo, RIDOT will evaluate the submitted information and proceed to issue a Request(s) for Proposals to implement solutions that will facilitate the implementation and integration of CAVs and other innovative transport technologies in Rhode Island if necessary.
- This is not a request for proposals, and therefore no funding is available and no contract awards will be made as a result of this solicitation.
- Responders must not include any pricing elements or costs as part of their submission



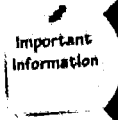
Last...



## Important dates



Closing of Q&A Portal: July 4, 2017

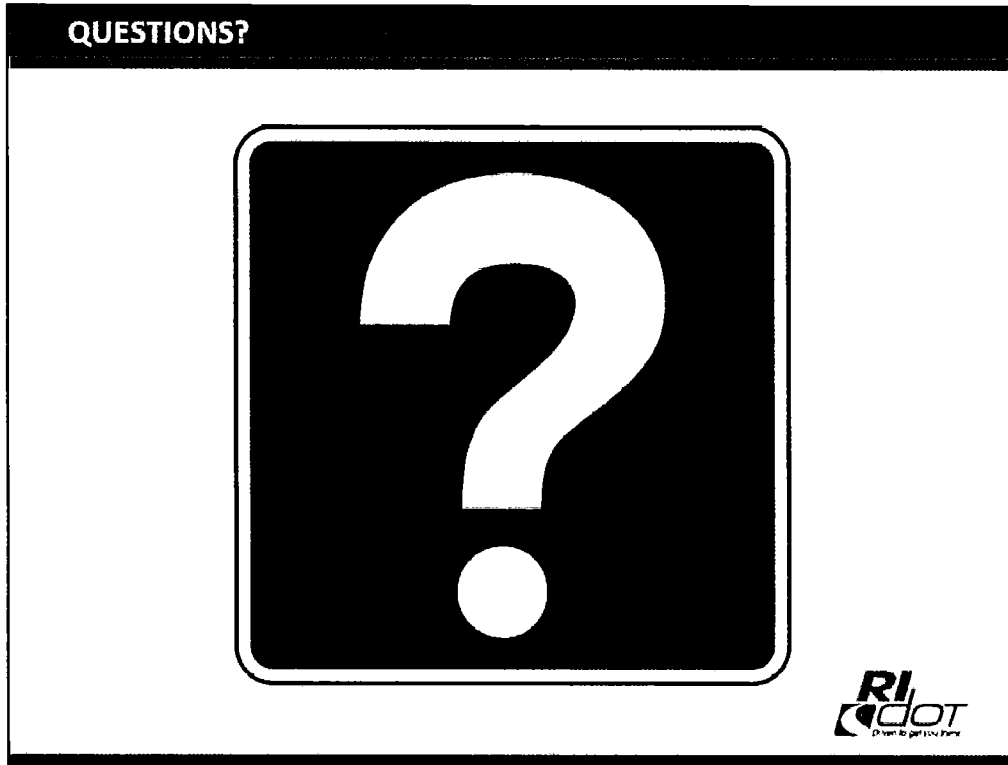


Submission of RFI: July 12, 2017



Expo: Mid-August to Mid-September

Important dates to keep in mind...



I would like to thank RIDOT's Team who worked to put together this initiative and open the floor to questions. Please state your name and affiliation clearly before you ask any question.

RIDOT wants to better understand the ways in which it can help test, deploy, and evaluate CAV technology and applications, as well as other innovative transport system technologies such as on-demand ride sharing services, high speed intercity and inter-suburb transporter technology, and others.

Rhode Island is a densely populated and developed state with significant personal and commercial/freight travel needs. It is also subject to a wide range of environmental conditions that can benefit testing of new technology in a variety of condition.

We believe that Rhode Island can leverage its' resources and travel-related infrastructure in such a way that it can and will become a leader in CAV business opportunities, testing, and implementation.