



**Solicitation Information
June 13, 2017**

RFP# 7553531

TITLE: Rhode Island FirstNet Radio Access Network (RAN) Alternative Plan, Buildout and Operations

Submission Deadline: July 12, 2017 at 02:00 PM (ET)

PRE-BID/ PROPOSAL CONFERENCE: YES

MANDATORY: NO, however strongly recommended

DATE: June 22, 2017 at 10:00 – 11:00 AM (ET)

CONFERENCE LINE: The pre-bid conference will be held only as a conference call. Vendors can attend the pre-bid/proposal conference by calling: 1-866-919-6470 / Code: 71144275

Questions concerning this solicitation must be received by the Division of Purchases at DOA.PurQuestions8@purchasing.ri.gov no later than **June 25, 2017 at 05:00 PM (ET)**. Questions should be submitted in a *Microsoft Word attachment*. Please reference the RFP# 7553531 on all correspondence. Questions received, if any, will be posted on the Division of Purchases' website as an addendum to this solicitation. It is the responsibility of all interested parties to download this information.

BID SURETY BOND REQUIRED: NO

PAYMENT AND PERFORMANCE BOND REQUIRED: YES

Meredith Skelly, Interdepartmental Project Manager

Applicants must register on-line at the State Purchasing Website at www.purchasing.ri.gov

Note to Applicants:

Proposals received without a completed RIVIP Vendor Certification Cover Form attached may result in disqualification.

THIS PAGE IS NOT A VENDOR CERTIFICATION COVER FORM

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SECTION 1. INTRODUCTION

The Rhode Island Department of Administration/Division of Purchases, on behalf of the Rhode Island Emergency Management Agency (RIEMA), is soliciting proposals from qualified firms to secure a partner to help build, operate, and maintain a statewide radio access network (RAN) which connects to and is fully interoperable with the Nationwide Public Safety Broadband Network (NPSBN) being created by the First Responder Network Authority (FirstNet), in accordance with the terms of this Request for Proposals (“RFP”) and the State’s General Conditions of Purchase, which may be obtained at the Division of Purchases’ website at www.purchasing.ri.gov.

The initial contract period will begin approximately January 1, 2018 for a term to be determined in contract negotiations with the selected vendor only if the State reaches an opt-out decision on the FirstNet State Plan.

There are many stipulations and contingencies in this RFP, most important of which is that the State of Rhode Island will only pursue a contract if it decides to reject the State Plan presented by FirstNet to the State (A.K.A. the “Opt-Out” decision). There are several other contingencies described later in the RFP. The State of Rhode Island will only execute a contract if these contingencies are met and successfully negotiates a contract with the selected vendor. Conversely, if the State accepts the FirstNet plan then it will not pursue a contract. If a partner is selected, they are required to comply with both federal and state law related to the Act and hence a thorough understanding of the Act, FirstNet requirements, LTE Technology, 700 MHz D-Block spectrum policies and rights as well as wireless business models is mandatory. By responding to this RFP the Vendor acknowledges and accepts the risks and requirements.

This is a Request for Proposals, not a Request for Quotes. Responses will be evaluated on the basis of the relative merits of the proposal, in addition to cost; there will be no public opening and reading of responses received by the Division of Purchases pursuant to this solicitation, other than to name those offerors who have submitted proposals.

Instructions and Notifications to Offerors

1. Potential vendors are advised to review all sections of this RFP carefully and to follow instructions completely, as failure to make a complete submission as described elsewhere herein may result in rejection of the proposal.
2. Alternative approaches and/or methodologies to accomplish the desired or intended results of this RFP are solicited. However, proposals which depart from or materially alter the terms, requirements, or scope of work defined by this RFP may be rejected as being non-responsive.
3. All costs associated with developing or submitting a proposal in response to this RFP or for providing oral or written clarification of its content, shall be borne by the vendor. The State assumes no responsibility for these costs even if the RFP is cancelled or continued.

4. Proposals are considered to be irrevocable for a period of not less than 180 days following the opening date, and may not be withdrawn, except with the express written permission of the State Purchasing Agent.
5. All pricing submitted will be considered to be firm and fixed unless otherwise indicated in the proposal.
6. It is intended that an award pursuant to this RFP will be made to a prime vendor, or prime vendors in the various categories, who will assume responsibility for all aspects of the work. Subcontracts are permitted, provided that their use is clearly indicated in the vendor's proposal and the subcontractor(s) to be used is identified in the proposal.
7. The purchase of goods and/or services under an award made pursuant to this RFP will be contingent on the availability of appropriated funds.
8. Vendors are advised that all materials submitted to the Division of Purchases for consideration in response to this RFP may be considered to be public records as defined in R. I. Gen. Laws § 38-2-1, *et seq.* and may be released for inspection upon request once an award has been made.

Any information submitted in response to this RFP that a vendor believes are trade secrets or commercial or financial information which is of a privileged or confidential nature should be clearly marked as such. The vendor should provide a brief explanation as to why each portion of information that is marked should be withheld from public disclosure. Vendors are advised that the Division of Purchases may release records marked confidential by a vendor upon a public records request if the State determines the marked information does not fall within the category of trade secrets or commercial or financial information which is of a privileged or confidential nature.

9. Interested parties are instructed to peruse the Division of Purchases website on a regular basis, as additional information relating to this solicitation may be released in the form of an addendum to this RFP.
10. By submission of proposals in response to this RFP vendors agree to comply with R. I. General Laws § 28-5.1-10 which mandates that contractors/subcontractors doing business with the State of Rhode Island exercise the same commitment to equal opportunity as prevails under Federal contracts controlled by Federal Executive Orders 11246, 11625 and 11375.

Vendors are required to ensure that they, and any subcontractors awarded a subcontract under this RFP, undertake or continue programs to ensure that minority group members, women, and persons with disabilities are afforded equal employment opportunities without discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability.

Vendors and subcontractors who do more than \$10,000 in government business in one year are prohibited from engaging in employment discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability, and are required to submit an "Affirmative Action Policy Statement."

Vendors with 50 or more employees and \$50,000 or more in government contracts must prepare a written “Affirmative Action Plan” prior to issuance of a purchase order.

- a. For these purposes, equal opportunity shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff, termination, and rates of pay or other forms of compensation.
- b. Vendors further agree, where applicable, to complete the “Contract Compliance Report” (<http://odeo.ri.gov/documents/odeo-eeo-contract-compliance-report.pdf>), as well as the “Certificate of Compliance” (<http://odeo.ri.gov/documents/odeo-eeo-certificate-of-compliance.pdf>), and submit both documents, along with their Affirmative Action Plan or an Affirmative Action Policy Statement, prior to issuance of a purchase order. For public works projects vendors and all subcontractors must submit a “Monthly Utilization Report” (<http://odeo.ri.gov/documents/monthly-employment-utilization-report-form.xlsx>) to the ODEO/State Equal Opportunity Office, which identifies the workforce actually utilized on the project.

For further information, contact the Rhode Island Equal Employment Opportunity Office, at 222-3090 or via e-mail at Krystal.Waters@doa.ri.gov.

11. In accordance with R. I. Gen. Laws § 7-1.2-1401 no foreign corporation has the right to transact business in Rhode Island until it has procured a certificate of authority so to do from the Secretary of State. This is a requirement only of the successful vendor(s). For further information, contact the Secretary of State at (401-222-3040).
12. In accordance with R. I. Gen. Laws §§ 37-14.1-1 and 37-2.2-1 it is the policy of the State to support the fullest possible participation of firms owned and controlled by minorities (MBEs) and women (WBEs) and to support the fullest possible participation of small disadvantaged businesses owned and controlled by persons with disabilities (Disability Business Enterprises a/k/a “DisBE”)(collectively, MBEs, WBEs, and DisBEs are referred to herein as ISBEs) in the performance of State procurements and projects. As part of the evaluation process, vendors will be scored and receive points based upon their proposed ISBE utilization rate in accordance with 150-RICR-90-10-1, “Regulations Governing Participation by Small Business Enterprises in State Purchases of Goods and Services and Public Works Projects”. As a condition of contract award vendors shall agree to meet or exceed their proposed ISBE utilization rate and that the rate shall apply to the total contract price, inclusive of all modifications and amendments. Vendors shall submit their ISBE participation rate on the enclosed form entitled “MBE, WBE and/or DisBE Plan Form”, which shall be submitted in a separate, sealed envelope as part of the proposal. ISBE participation credit will only be granted for ISBEs that are duly certified as MBEs or WBEs by the State of Rhode Island, Department of Administration, Office of Diversity, Equity and Opportunity or firms certified as DisBEs by the Governor’s Commission on Disabilities. The current directory of firms certified as MBEs or WBEs may be accessed at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php>. Information regarding DisBEs may be accessed at www.gcd.ri.gov. For further information, visit the Office of Diversity, Equity & Opportunity’s website at: <http://odeo.ri.gov> and see R.I. Gen. Laws Ch. 37-14.1, R.I. Gen. Laws Ch. 37-2.2, and 150-RICR-90-10-1.

For further information, visit the Office of Diversity, Equity & Opportunity's website at: <http://odeo.ri.gov/> and see R.I. Gen. Laws Ch. 37-14.1, R.I. Gen. Laws Ch. 37-2.2, and 150-RICR-90-10-1.

13. Payment and Performance Bond - The successful vendor must furnish a 100% payment and performance bond from a surety licensed to conduct business in the State of Rhode Island upon the tentative award of the contract pursuant to this solicitation.

SECTION 2. BACKGROUND

The State of Rhode Island, through the Rhode Island Emergency Management Agency (RIEMA) is issuing this request for proposal (RFP) to secure a partner to help build, operate, and maintain a statewide radio access network (RAN) which connects to and is fully interoperable with the Nationwide Public Safety Broadband Network (NPSBN) being created by the First Responder Network Authority (FirstNet).

The Middle Class Tax Relief and Job Creation Act of 2012 (the Act) created FirstNet as an independent authority within National Telecommunications and Information Administration (NTIA), an agency of the US Department of Commerce (DOC). The law gives FirstNet the authority to build, operate and maintain the first high-speed, nationwide wireless broadband network dedicated to public safety based on Long-Term Evolution (LTE) technology standards. FirstNet will provide a single interoperable wireless broadband platform for emergency and daily public safety communications.

RIEMA is the designated state agency responsible for the NTIA's State and Local Implementation Grant Program which supports the State's involvement in the FirstNet initiative and employs the State's FirstNet Single Point of Contact (SPOC). In addition, RIEMA is responsible for the State's Interoperable Communications Committee (ICC).

Rhode Island statute created the ICC to address the challenges associated with statewide communications interoperability. The committee comprises every public safety entity in the State and more specifically their telecommunications liaisons (21 members). As such, the committee encompasses all the public safety communications expertise in the State and in its purview, covers various communications technologies including land mobile radio (LMR) and wireless broadband.

RIEMA is issuing this RFP for the FirstNet Radio Access Network (RAN) Alternative Plan, Buildout and Operations to assist the State of Rhode Island in meeting its responsibilities under the Act. The overall scope of the project is to design, build, manage, and sustain a state-of-the-art, carrier-neutral, LTE broadband communication network using licensed FirstNet 20MHz of the 700MHz LTE spectrum dedicated to and controlled by public safety with the potential to wholesale access to multiple carriers in conjunction with the State of RI.

The successful Vendor will assist in supplementing and supporting current State efforts in its partnership with FirstNet to implement the State's RAN with all the requisite terms and conditions required by FirstNet and the Act.

There are many stipulations and contingencies in this RFP, most important of which is that the State of Rhode Island will only pursue a contract if it decides to reject the State Plan presented by FirstNet to the State (A.K.A. the "Opt-Out" decision). There are several other contingencies described later in the RFP. The State of Rhode Island will only execute a contract if these contingencies are met and successfully negotiates a contract with the selected vendor. Conversely, if the State accepts the FirstNet plan then it will not pursue a contract. If a partner is selected, they are required to comply with both federal and state law related to the Act and hence a thorough understanding of the Act, FirstNet requirements, LTE Technology, 700 MHz D-Block spectrum

policies and rights as well as Wireless business models is mandatory. By responding to this RFP the vendor acknowledges and accepts the risks and requirements.

SECTION 3: SCOPE OF WORK AND REQUIREMENTS

A. Background

The Act created FirstNet and charged it with the responsibility to develop, operate, and maintain the LTE-based Nationwide Public Safety Broadband Network (NPSBN).

FirstNet is an independent authority within the NTIA, itself an agency within the United States Department of Commerce. FirstNet is required to develop the NPSBN in a manner that considers the information provided to FirstNet in the detailed consultation process called for by the Act and the plans of states, territories, and their constituent public safety agencies.

The law gives FirstNet a blueprint for its mission. It outlines processes and guidelines that FirstNet must follow in building the network. FirstNet is tasked with cost-effectively creating a nationwide network and providing wireless services to public safety agencies across the country. Through the assessment of fees, FirstNet must generate sufficient funds to enable the organization to operate, maintain and improve the network each year.

The NTIA established a State and Local Implementation Grant Program (“SLIGP”) to support the efforts of states, territories and their respective constituent public safety agencies to prepare the plans contemplated by the act and to prepare for the consultation process with FirstNet, data collection activities, and coverage exercises to determine a state’s overall coverage priorities. BY LAW, THE STATE CANNOT PAY FOR ANY ALTERNATIVE RAN PLAN COSTS USING SLIGP GRANT FUNDS.

In 2017, FirstNet will submit a draft and a final State Plan to Rhode Island that proposes the coverage and services being offered by FirstNet in the State. The State of Rhode Island has actively worked together with FirstNet and the NTIA throughout the formation of the project, SLIGP grant application, public safety data collection, submission of coverage objectives and State Plan decision policies and procedures.

Pursuant to the FirstNet Final State Plan submission, the State will have 90 days to decide whether to accept FirstNet’s State Plan proposal to build the state RAN (Opt-In) or pursue an alternate plan (Opt-Out). In preparation for this complex decision and to accelerate the decision process, the State is exploring all of its options and is intentionally issuing this RFP ahead of having a FirstNet schedule or further details on the contingencies.

The following are the objectives of the State of Rhode Island regarding the creation of a RAN within the state’s borders which connects to and is fully interoperable with the NPSBN. These objectives are provided as guidance and may not be the State’s final objectives for this project.

- Facilitate the deployment of the RAN in the State;
- Assure that the RAN is deployed in a manner that meets all material requirements of the State, its constituent public safety agencies and other concerned stakeholders in relation to coverage, capacity, security, reliability, and control;
- Secure the widest possible adoption by the state’s public safety users;
- Ensure that the costs of using the RAN are consistent with the objective for the wide adoption of the NPSBN;
- Eliminate concerns regarding the financial sustainability of the RAN;

- Assure that the RAN is technically sustainable and meets new and expanded requirements issued by FirstNet as they may develop over time;
- Assure that interoperability is effective both within the borders of the State and between and among states and territories; and
- Ensure that the RAN is developed, operated, and maintained in such a manner that the network and its services substantially enhance first responders' ability to protect human life and property and increase first responders' personal safety.

The State plans to enter into a public-private partnership as a result of this RFP. The State's partner in this effort will be a private sector communications technology organization, steeped in FirstNet awareness including but not limited to the Act, FirstNet requirements, LTE Technology, 700 MHz D-Block spectrum policies and rights as well as wireless business models. The award shall be based upon criteria, standards, and weighting identified in this RFP.

B. Award Decision Contingencies

A contract award by the State of Rhode Island will be based on criteria, standards and requirements identified in this RFP and such award is dependent on the following contingencies. If all applicable contingencies are not met, there shall not be a contract awarded by the state.

1. Governor's Decision on FirstNet State Plan

FirstNet personnel have been working closely with the Rhode Island team to gather the State's requirements and coverage objectives to develop and deliver a network deployment plan that meets their needs. FirstNet will provide the Governor with a notice of completion of the request for proposal process; details of the proposed State Plan and funding level for the state. Upon receipt of the plan, the Governor will have 90 days to choose whether to accept the plan provided by FirstNet or conduct its own deployment of a RAN. If the Governor of Rhode Island decides to accept FirstNet's Plan for the State (Opt-In), a contract may not be awarded as a result of this RFP.

2. FCC Approval

If the Governor decides to opt out, then she is required to notify FirstNet, FCC and the NTIA. After providing the notification, the State has 180 days to develop and complete requests for proposals for the construction, maintenance and operation of the RAN within the State. The State is required to submit the alternative plan to the FCC that demonstrates compliance with the FCC Technical Advisory Board Report and interoperability with nationwide network deployment based on FirstNet network policies. If the FCC does not approve the state's alternative plan, a contract may not be awarded as a result of this RFP.

3. NTIA Approval for Construction Grant and Agreement to Lease Spectrum

If the FCC approves the alternative plan, then the State may apply to the NTIA for a RAN construction grant and the agreement to lease spectrum. The NTIA will evaluate the alternative plan to assure that it demonstrates cost-effectiveness, comparable completion timelines, security, coverage and quality-of-service (among other things). If the NTIA does not agree to lease spectrum and/or approve a construction grant, a contract may not be awarded as a result of this RFP.

4. FirstNet Spectrum Management Lease Agreement (SMLA)

If the NTIA approves the alternative plan and provides a construction grant, then the State negotiates a SMLA with FirstNet. The FirstNet Board must approve a SMLA for the State of

Rhode Island and its private partner for the State to enter a contract to be awarded. If FirstNet does not approve a SMLA for the state, a contract may not be awarded as a result of this RFP.

5 Additional Funding Implications

There are additional funding implications if a state receives approval to build its own RAN:

- The State must pay any fees associated with using FirstNet core elements
- Construction grant program specifics are not yet developed
- The NTIA will determine eligible costs of the grant program, match requirements, and funding levels

If the state is unable to properly fund the state's RAN buildout and/or operations, a contract may not be awarded as a result of this RFP.

6 Collaboration between the Selected Vendor and the State to Ensure Efficient Use of Appropriate State Infrastructure

A successful contract will include provisions for collaboration between the State of Rhode Island, its related state governance bodies, and the selected vendor to ensure appropriate and efficient use of the state's current and/or future broadband and fiber optic communications infrastructures.

7 Final Contract Approval by RIEMA and Rhode Island Department of Administration

If final contract approval is not obtained from all parties, a contract may not be awarded as a result of this RFP.

C. Spectrum Considerations

A considerable portion of the economic impetus for NPSBN comes from the value of the 20MHz tranche of spectrum set aside by Congress in the 700MHz band ("D-Block"). In an opt-out scenario, the State has to negotiate a SMLA with the NTIA and FirstNet. The Act authorizes states that construct their own networks to enter into spectrum leasing agreements with secondary users so long as those leasing agreements result from a public-private arrangement to construct, manage, and operate the network. Such agreements may permit users to access network capacity on a secondary basis for non-public safety services in return for the payment of a spectrum leasing fee. The Spectrum Act explicitly authorizes states to use "revenue gained by the State from such a leasing arrangement" for the purpose of "constructing, maintaining, operating, or improving the radio access network of the State." The following questions have yet to be addressed and could impact the State's ability to make an award. These questions will be addressed by FirstNet, NTIA and FCC during the State Plan process.

1. What constitutes authorized use of revenues generated by a state-run 700MHz public safety network?

If a state opts out of the NPSBN and elects instead to operate its own statewide RAN using spectrum it leases from FirstNet, it may retain revenues generated by that network and reinvest them in constructing, maintaining, operating, or improving the state PSBN. What constitutes authorized use of those revenues?

2. Use of 700 MHz Public Safety Broadband User Fees?

The Spectrum Act does not explicitly authorize states to collect network user fees from the public safety users of their state PSBNs or to collect lease fees from entities seeking access to the state's PSBN equipment or infrastructure (although it does authorize FirstNet to do so with

respect to the nationwide PSBN). However, the Spectrum Act also does not prohibit states from collecting network use or lease fees, or from reinvesting revenue generated by such fees back into the state's PSBN. Does the Spectrum Act require states to remit such revenues to FirstNet?

3. **Use of 700 MHz Public Safety Narrowband Spectrum for Public Safety Broadband Network?**

The Federal Communications Commission ("FCC") provided licenses to every state to use 12 MHz of 700 MHz narrowband public safety spectrum (769-775 MHz, 799-805 MHz). Other than authorizing the FCC to allow "flexible use" of the spectrum "subject to such technical and interference protection measures as the Commission may require," and encouraging research into interoperability between 700 MHz broadband and narrowband networks, the Act makes no mention of these narrowband frequencies.

This suggests that the Act does not restrict in any way the operations of 700 MHz public safety narrowband licensees, the manner in which they choose to collect revenue, or how they elect to use such revenue. Moreover, neither the authorizing statute for narrowband public safety services nor the FCC's rules for narrowband operations impose restrictions on the collection or use of revenues associated with the operation of public safety narrowband networks, other than to require that licensees may not make public safety services commercially available to the public. Is this interpretation correct?

SECTION 4: PROPOSAL

A. Technical Proposal

Narrative and format: The proposal should address specifically each of the following elements:

1. Vendor Qualifications

i. Organizational Information and Leadership

Vendor must specify the name, title, physical office and mailing address, resume and business telephone number of those individuals responsible for the performance under the anticipated contract resulting from this RFP, including those individuals with primary day-to-day responsibility for the services contemplated herein, and specifying their relevant industry experience and location.

ii. Organizational Background

Provide a full and complete background description of the organization, including:

- Full company or corporate name, physical address of the headquarters office and the office that will work with Rhode Island;
- How the business is organized (proprietorship, partnership, corporation, LLC), parent or subsidiary corporations;
- The year in which the company was first organized to do business;
- Documentation that the vendor is qualified to transact business within the State of Rhode Island in accordance with Rhode Island law, and possesses evidence of such issued by the Secretary of State at the time a professional services contract is executed.
- The company's experience in providing services comparable to the type presented in this RFP;
- Other types of services the company provides.

iii. Statement on Employees

Vendor must specify the anticipated number of full or part time employees and the role of each in performing the services required in this RFP.

iv. References and Related Experiences

Provide a history of the company's experience in providing services identified as required in this RFP, including a list of at last three (3) references of similar organizations, with complete point of contact information, currently using the professional services which are the same or substantially similar to those specified in this RFP.

v. Subcontractors

Any subcontractor employed by the vendor in the course of this project must be clearly documented, with organizational information.

2. General Requirements

i. Acknowledgement Statement

The vendor must submit a statement, signed and dated, with the following: “The representatives or designees for (name of vendor) have read, understand, acknowledge, accept and agree to all parts, terms, and conditions of this RFP. [Signed name, printed name of signee, position with the vendor, and date]”

ii. Payment and Performance Bonding Capacity

Vendors must provide a commitment letter (from a surety company licensed to do business in the State of Rhode Island and whose name appears on the United States Treasury Department Circular 570) for payment and performance bonds in an amount equal to or greater than one hundred percent (100%) of the estimated cost for the Project as set forth in the Section I.

iii. Certification

Vendors must provide evidence of licensure and registration as a general contractor within the State of Rhode Island or provide a commitment letter to acquire licensure and registration as a general contractor within the State of Rhode Island, if a vendor’s proposal includes construction of any structure(s).

iv. Insurance

Vendors must be able to provide proof of insurance as defined in Appendix B or provide a commitment letter to acquire the insurance levels as specified in Appendix B.

v. General Statements

Vendors to this RFP must have clear and convincing expertise, experience, and qualifications as principals in the design, development, financing, implementation, optimization, testing, and marketing of communications networks and expertise, experience, and qualifications in relation to commercial and financing transactions in connection with such communications networks (do not include any cost specific information in the technical proposal, submit cost specific information in the separate cost proposal).

Further, vendors must have a clear and well developed understanding of the options and opportunities available to states or territories relevant to their achieving their objectives in relation to the NPSBN and must have followed all developments in relation to FirstNet, the NPSBN and other related updates (i.e. FCC rules) closely. Vendors should identify and provide copies of such filings, if any, they have made with government agencies’ seeking information or making inquiries relevant to FirstNet or the NPSBN. Also relevant is whether vendors can demonstrate that they recognize the risks associated with the planning and implementation of the State RAN and have developed means to assist the state in achieving its objectives and meeting its responsibilities in

relation to the NPSBN. Specifically, the vendor shall answer each of the following questions:

- a. Identify and explain the obstacles in the way of (or risks to) the achievement of the objectives of the State for this Project;
- b. Identify the strategies necessary to clear those obstacles from the path (or control the risks) to the achievement of the objectives of the State for this Project;
- c. Explain how the vendor's approach and execution of the scope of work outlined by the State will lead to execution of the proposed strategies;
- d. Identify the procedures, processes, and tools necessary for the proper and effective performance of the scope of work.

3. Work Plan and Proposed Approach

The State of Rhode Island seeks a private sector partner to build, deploy, operate and maintain the State's RAN. The state will provide high-level management oversight and guidance, but does not wish to take on the roles and responsibilities normally associated with day to day operations of a complex radio access network. Vendors must provide a proposal that fully details their approach to the following requirements.

i. Building, Deployment, Operation, and Maintenance of the Rhode Island RAN

Vendors must fully detail their approach and business model to providing a highly available, public-safety grade, statewide, interoperable RAN that ensures coverage 24 hours a day, 7 days a week, 365 days a year and complies with all technical requirements referenced in the FirstNet RFP and its attachments, as well as the State of Rhode Island's coverage and capacity requirements. The vendor's approach to program and business management, including facilitation of the state's compliance with the Act and other applicable laws and regulations must be clearly defined.

ii. Contract Model

Vendors must describe their proposed contract model and how they will ensure compliance with Rhode Island's procurement laws, rules, and regulations.

iii. Service Availability

Vendors must fully detail their approach to ensuring broadband service with a minimum availability of 99.99% as measured in a rolling 12- month period for the State of Rhode Island including any potential for roaming access to commercial service-provider networks. Vendors should include their approach to public safety grade services, including site hardening and high availability even in times of natural disaster or major public safety events.

iv. Service Capacity

Vendors must include a detailed explanation of their plan to provide appropriate service capacity needed to fully support Rhode Island's geographically dispersed public safety users throughout the life of the contract.

v. Service Quality, Priority and Preemption

Vendors must provide a comprehensive description of their approach to QPP as indicated in the 3GPP standards and the FirstNet RFP and its attachments including the level of priority given to public safety entities and the methodology behind administering the level of priority.

vi. Cybersecurity

Vendors must include a detailed description of their approach to meeting or exceeding the cybersecurity requirements defined in the FirstNet RFP and its attachments.

vii. Service Innovation

Vendors must fully detail their approach to ensuring the evolution of the Rhode Island RAN as required by FirstNet over the life of the contract. Vendors should also include any approach designed to exceed the FirstNet requirements.

viii. Integration of the Rhode Island RAN into the NPSBN

Vendors must fully describe how they will ensure effective integration of the Rhode Island RAN into the NPSBN so that users will operate without service interruptions when crossing service area boundaries. Vendors should refer to the FirstNet RFP and its attachments when developing their response for this section and must include their approach for collaboration with FirstNet, FirstNet's partner, and other opt-out states to achieve effective integration and interoperability throughout the NPSBN with emphasis on connectivity to the FirstNet Core.

ix. Integration of State and Local Infrastructure

Vendors must fully detail their approach to integration of state and local infrastructure within their network design and any issues with integrating next-generation 911. A successful contract award will require collaboration with and integration of the state's current and future education fiber network initiatives. Vendor must demonstrate their plan and commitment to adhere to this requirement.

x. First Responder User Adoption

Vendors must fully detail how they will foster statewide adoption of Rhode Island RAN services by most Rhode Island public safety entities as required by the FirstNet RFP and its attachments. Vendors should include their approaches to customer care and Rhode Island RAN marketing in this section as well as the recommended service plan offerings to public safety entities.

xi. FirstNet Device and Applications Ecosystems Integration

Vendors must fully detail how they will ensure integration with the FirstNet device and applications ecosystems as detailed in the FirstNet RFP and its attachments.

xii. Accelerated Speed to Market

Vendors must include a comprehensive description of how they will meet or exceed FirstNet's requirements for accelerated speed to market, as indicated in the FirstNet RFP and its attachments with emphasis on the Initial Operational Capability/Final Operational Capability (IOC/FOC) target timeline.

xiii. Use of State's 700MHz Narrowband Spectrum

Vendors should describe their approach to leverage the 12MHz of Rhode Island's 700 MHz narrowband land mobile radio spectrum in the same manner as FirstNet's broadband spectrum. The vendor should detail how this Rhode Island RAN option will serve public safety and secondary users ensuring a self-sustaining and revenue generating business model. Vendors should indicate their approach for relocating current users of the spectrum to other available narrowband frequencies at no cost to the users or the state. Vendors should indicate their commitment to collaboration with the state's Interoperable Communications Committee (ICC) for building the appropriate business case and requests for consideration for alternative use of the narrowband land mobile radio spectrum for broadband use by the state's current user community. Vendors should include a complete description of their financial business model, including projected revenues to the state, for this option.

xiv. Mission Critical Push-to-Talk over Broadband

Vendors should indicate their commitment to and approach for providing Rhode Island public safety communities with mission critical push-to-talk radio services through the Rhode Island RAN. It is understood that the 3rd Generation Partnership

Project (3GPP) standards for these services were only recently approved and that the mission critical aspects of the services are still under development.

xv. State Coverage Objectives

The Vendor to this RFP must meet the broadband service coverage objectives for the entire State of Rhode Island. The necessary information for this section can be found in the Appendix C. The vendor must thoroughly explain how they will meet the objectives of service coverage for the entire state and any issues associated with providing the coverage.

xvi. Ownership and Usage Rights

The Vendor needs to give a detailed description of ownership rights and usage rights for all assets related to the infrastructure comprising the Rhode Island RAN.

xvii. Innovation and Comment

Vendor may include any other information believed to be pertinent but is not specifically requested in the RFP. The vendor may provide suggestions of the services available from the vendor that may assist in the success of this project.

xviii. Exceptions Summary

List and fully explain all exceptions taken to any term or condition of this RFP.

B. Cost Proposal

i. Financial Model and System Sustainability

Vendors must provide a comprehensive financial plan that describes how the vendor will maximize government funding and fully leverage FirstNet spectrum to build, deploy, operate, and maintain the Rhode Island RAN to serve and give priority to public safety and for secondary use while ensuring a self-sustaining business model for a period of 25 years, the specified term of the FirstNet RFP. Vendors must detail how they intend to keep public safety user fees at or below the current national levels with special consideration being given for those approaches that reduce or eliminate these costs for Rhode Island's public safety community as well as any anticipated financial risks for the State or the vendor and mitigation steps that will be taken. Vendors must fully define how they will or will not fund the state's costs related to project oversight and management, including, but not limited to staffing and related operational expenses required for appropriate program management. Vendor must also address their willingness to enter a Covered Lease Agreement (CLA) with FirstNet.

ii. Budget

The Vendor must provide comprehensive budget required to build, maintain, and update the Rhode Island RAN, backhaul, and connectivity to the FirstNet Core. The clarification must include a detailed budget for expenses with clear identification of any costs to be borne by the State.

C. ISBE Proposal

See Appendix A for information and the MBE, WBE, and/or Disability Business Enterprise Participation Plan form(s). Vendors are required to complete, sign and submit these forms with their overall proposal in a sealed envelope. Please complete separate forms for each MBE, WBE and/or Disability Business Enterprise subcontractor/supplier to be utilized on the solicitation.

SECTION 5: EVALUATION AND SELECTION

Proposals shall be reviewed by a technical evaluation committee (“TEC”) comprised of staff from State agencies. The TEC first shall consider technical proposals.

Technical proposals must receive a minimum of 60 (85.7%) out of a maximum of 70 points to advance to the cost evaluation phase. Any technical proposals scoring less than 60 points shall not have the accompanying cost or ISBE participation proposals opened and evaluated. The proposal will be dropped from further consideration.

Technical proposals scoring 60 points or higher will have the cost proposals evaluated and assigned up to a maximum of 30 points in cost category bringing the total potential evaluation score to 100 points. After total possible evaluation points are determined ISBE proposals shall be evaluated and assigned up to 6 bonus points for ISBE participation.

The Division of Purchases reserves the right to select the vendor(s) or firm(s) (“vendor”) that it deems to be most qualified to provide the goods and/or services as specified herein; and, conversely, reserves the right to cancel the solicitation in its entirety in its sole discretion.

Proposals shall be reviewed and scored based upon the following criteria:

Criteria	Possible Points
Vendor Qualifications	25 Points
General Requirements	15 Points
Work Plan and Proposed Approach	30 Points
Total Possible Technical Points	70 Points
Cost proposal*	30 Points
Total Possible Evaluation Points	100 Points
ISBE Participation**	6 Bonus Points
Total Possible Points	106 Points

***Cost Proposal Evaluation:**

The vendor with the lowest cost proposal shall receive one hundred percent (100%) of the available points for cost. All other vendors shall be awarded cost points based upon the following formula:

$$(\text{lowest cost proposal} / \text{vendor's cost proposal}) \times \text{available points}$$

For example: If the vendor with the lowest cost proposal (Vendor A) bids \$65,000 and Vendor B bids \$100,000 for monthly costs and service fees and the total points available are thirty (30), Vendor B's cost points are calculated as follows:

$$\$65,000 / \$100,000 \times 30 = 19.5$$

****ISBE Participation Evaluation:**

a. Calculation of ISBE Participation Rate

1. ISBE Participation Rate for Non-ISBE Vendors. The ISBE participation rate for non-ISBE vendors shall be expressed as a percentage and shall be calculated by dividing the amount of non-ISBE vendor's total contract price that will be subcontracted to ISBEs by the non-ISBE vendor's total contract price. For example if the non-ISBE's total contract price is \$100,000.00 and it subcontracts a total of \$12,000.00 to ISBEs, the non-ISBE's ISBE participation rate would be 12%.
2. ISBE Participation Rate for ISBE Vendors. The ISBE participation rate for ISBE vendors shall be expressed as a percentage and shall be calculated by dividing the amount of the ISBE vendor's total contract price that will be subcontracted to ISBEs and the amount that will be self-performed by the ISBE vendor by the ISBE vendor's total contract price. For example if the ISBE vendor's total contract price is \$100,000.00 and it subcontracts a total of \$12,000.00 to ISBEs and will perform a total of \$8,000.00 of the work itself, the ISBE vendor's ISBE participation rate would be 20%.

b. Points for ISBE Participation Rate:

The vendor with the highest ISBE participation rate shall receive the maximum ISBE participation points. All other vendors shall receive ISBE participation points by applying the following formula:

$$(\text{Vendor's ISBE participation rate} \div \text{Highest ISBE participation rate})$$

$$\times \text{Maximum ISBE participation points})$$

For example, assuming the weight given by the RFP to ISBE participation is 6 points, if Vendor A has the highest ISBE participation rate at 20% and Vendor B's ISBE participation rate is 12%, Vendor A will receive the maximum 6 points and Vendor B will receive $(12\% \div 20\%) \times 6$ which equals 3.6 points.

General Evaluation:

Points shall be assigned based on the vendor's clear demonstration of the ability to provide the requested goods and/or services. Vendors may be required to submit additional written information or be asked to make an oral presentation before the TEC to clarify statements made in the proposal.

SECTION 6. QUESTIONS

Questions concerning this solicitation must be e-mailed to the Division of Purchases at DOA.PurQuestions8@purchasing.ri.gov no later than the date and time indicated on page one of this solicitation. No other contact with State parties is permitted. Please reference **RFP# 7553531** on all correspondence. Questions should be submitted in writing in a Microsoft Word attachment in a narrative format with no tables. Answers to questions received, if any, shall be posted on the Division of Purchases' website as an addendum to this solicitation. It is the responsibility of all interested parties to monitor the Division of Purchases website for any

procurement related postings such as addenda. If technical assistance is required, call the Help Desk at (401) 574-8100.

SECTION 7. PROPOSAL CONTENTS

A. Proposals shall include the following:

1. One completed and signed RIVIP Vendor Certification Cover Form (included in the original copy only) downloaded from the Division of Purchases website at www.purchasing.ri.gov. *Do not include any copies in the Technical or Cost proposals.*
2. One completed and signed Rhode Island W-9 (included in the original copy only) downloaded from the Division of Purchases website at <http://www.purchasing.ri.gov/rivip/publicdocuments/fw9.pdf>. *Do not include any copies in the Technical or Cost proposals.*
3. Two (2) completed original and copy versions, signed and sealed Appendix A. MBE, WBE, and/or Disability Business Enterprise Participation Plan. Please complete separate forms for each MBE/WBE or Disability Business Enterprise subcontractor/supplier to be utilized on the solicitation. *Do not include any copies in the Technical or Cost proposals.*
4. Technical Proposal - describing the vendor qualifications, general requirements and Work Plan and Proposed Approach and all information described earlier in this solicitation.
 - a. One (1) Electronic copy on a CD-R, marked “Technical Proposal - Original”.
 - b. One (1) printed paper copy, marked “Technical Proposal -Original” and signed.
5. Cost Proposal - A separate, signed and sealed cost proposal per section 4.B..
 - a. One (1) Electronic copy on a CD-R, marked “Cost Proposal -Original”.
 - b. One (1) printed paper copy, marked “Cost Proposal -Original” and signed.

B. Formatting of proposal response contents should consist of the following:

- A. Formatting of CD-Rs – Separate CD-Rs are required for the technical proposal and cost proposal. All CD-Rs submitted must be labeled with:
 - a. Vendor’s name
 - b. RFP #
 - c. RFP Title
 - d. Proposal type (e.g., technical proposal or cost proposal)
 - e. If file sizes require more than one CD-R, multiple CD-Rs are acceptable. Each CD-R must include the above labeling and additional labeling of how many CD-Rs should be accounted for (e.g., 3 CD-Rs are submitted for a technical proposal and each CD-R should have additional label of ‘1 of 3’ on first CD-R, ‘2 of 3’ on second CD-R, ‘3 of 3’ on third CD-R).

Vendors are responsible for testing their CD-Rs before submission as the Division of Purchase’s inability to open or read a CD-R may be grounds for rejection of a Vendor’s

proposal. All files should be readable and readily accessible on the CD-Rs submitted with no instructions to download files from any external resource(s). If a file is partial, corrupt or unreadable, the Division of Purchases may consider it “non-responsive”. USB Drives or any other electronic media shall not be accepted. Please note that CD-Rs submitted, shall not be returned.

B. Formatting of written documents and printed copies:

- a. For clarity, the technical and cost proposals shall be typed. These documents shall be single-spaced with 1” margins on white 8.5”x 11” paper using a font of 12 point Calibri or 12 point Times New Roman.
- b. All pages on the technical and cost proposals are to be sequentially numbered in the footer, starting with number 1 on the first page of the narrative (this does not include the cover page or table of contents) through to the end, including all forms and attachments. The Vendor’s name should appear on every page, including attachments. Each attachment should be referenced appropriately within the proposal section and the attachment title should reference the proposal section it is applicable to.
- c. Printed copies are to be only bound with removable binder clips.

SECTION 8. PROPOSAL SUBMISSION

Interested vendors must submit proposals to provide the goods and/or services covered by this RFP on or before the date and time listed on the cover page of this solicitation. Responses received after this date and time, as registered by the official time clock in the reception area of the Division of Purchases, shall not be accepted.

Proposals should be mailed or hand-delivered in a sealed envelope marked “**RFP# 7553531**” to:

RI Dept. of Administration
Division of Purchases, 2nd floor
One Capitol Hill
Providence, RI 02908-5855

NOTE: Proposals received after the above-referenced due date and time shall not be accepted. Proposals misdirected to other State locations or those not presented to the Division of Purchases by the scheduled due date and time shall be determined to be late and shall not be accepted. Proposals faxed, or emailed, to the Division of Purchases shall not be accepted. The official time clock is in the reception area of the Division of Purchases.

SECTION 9. CONCLUDING STATEMENTS

Notwithstanding the above, the Division of Purchases reserves the right to award on the basis of cost alone, to accept or reject any or all proposals, and to award in the State’s best interest.

Proposals found to be technically or substantially non-responsive at any point in the evaluation process will be rejected and not considered further.

If a Vendor is selected for an award, no work is to commence until a purchase order is issued by the Division of Purchases.

The State's General Conditions of Purchase contain the specific contract terms, stipulations and affirmations to be utilized for the contract awarded for this RFP. The State's General Conditions of Purchases can be found at the following URL:
<https://www.purchasing.ri.gov/RIVIP/publicdocuments/ATTA.pdf>.

APPENDIX A. PROPOSER ISBE RESPONSIBILITIES AND MBE, WBE, AND/OR DISABILITY BUSINESS ENTERPRISE PARTICIPATION FORM

A. Proposer's ISBE Responsibilities (from 150-RICR-90-10-1.7.E)

1. Proposal of ISBE Participation Rate. Unless otherwise indicated in the RFP, a Proposer must submit its proposed ISBE Participation Rate in a sealed envelope or via sealed electronic submission at the time it submits its proposed total contract price. The Proposer shall be responsible for completing and submitting all standard forms adopted pursuant to 105-RICR-90-10-1.9 and submitting all substantiating documentation as reasonably requested by either the Using Agency's MBE/WBE Coordinator, Division, ODEO, or Governor's Commission on Disabilities including but not limited to the names and contact information of all proposed subcontractors and the dollar amounts that correspond with each proposed subcontract.
2. Failure to Submit ISBE Participation Rate. Any Proposer that fails to submit a proposed ISBE Participation Rate or any requested substantiating documentation in a timely manner shall receive zero (0) ISBE participation points.
3. Execution of Proposed ISBE Participation Rate. Proposers shall be evaluated and scored based on the amounts and rates submitted in their proposals. If awarded the contract, Proposers shall be required to achieve their proposed ISBE Participation Rates. During the life of the contract, the Proposer shall be responsible for submitting all substantiating documentation as reasonably requested by the Using Agency's MBE/WBE Coordinator, Division, ODEO, or Governor's Commission on Disabilities including but not limited to copies of purchase orders, subcontracts, and cancelled checks.
4. Change Orders. If during the life of the contract, a change order is issued by the Division, the Proposer shall notify the ODEO of the change as soon as reasonably possible. Proposers are required to achieve their proposed ISBE Participation Rates on any change order amounts.
5. Notice of Change to Proposed ISBE Participation Rate. If during the life of the contract, the Proposer becomes aware that it will be unable to achieve its proposed ISBE Participation Rate, it must notify the Division and ODEO as soon as reasonably possible. The Division, in consultation with ODEO and Governor's Commission on Disabilities, and the Proposer may agree to a modified ISBE Participation Rate provided that the change in circumstances was beyond the control of the Proposer or the direct result of an unanticipated reduction in the overall total project cost.

B. MBE, WBE, AND/OR Disability Business Enterprise Participation Plan Form:

Attached is the MBE, WBE, and/or Disability Business Enterprise Participation Plan form. Vendors are required to complete, sign and submit with their overall proposal in a sealed envelope. Please complete separate forms for each MBE, WBE and/or Disability Business Enterprise subcontractor/supplier to be utilized on the solicitation.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF ADMINISTRATION
ONE CAPITOL HILL
PROVIDENCE, RHODE ISLAND 02908

MBE, WBE, and/or DISABILITY BUSINESS ENTERPRISE PARTICIPATION PLAN

Vendor's Name:
Vendor's Address:
Point of Contact:
Telephone:
Email:
Solicitation No.:
Project Name:

This form is intended to capture commitments between the prime contractor/vendor and MBE/WBE and/or Disability Business Enterprise subcontractors and suppliers, including a description of the work to be performed and the percentage of the work as submitted to the prime contractor/vendor. Please note that all MBE/WBE subcontractors/suppliers must be certified by the Office of Diversity, Equity and Opportunity MBE Compliance Office and all Disability Business Enterprises must be certified by the Governor's Commission on Disabilities at time of bid, and that MBE/WBE and Disability Business Enterprise subcontractors must self-perform 100% of the work or subcontract to another RI certified MBE in order to receive participation credit. Vendors may count 60% of expenditures for materials and supplies obtained from an MBE certified as a regular dealer/supplier, and 100% of such expenditures obtained from an MBE certified as a manufacturer. This form must be completed in its entirety and submitted at time of bid. **Please complete separate forms for each MBE/WBE or Disability Business Enterprise subcontractor/supplier to be utilized on the solicitation.**

Name of Subcontractor/Supplier:					
Type of RI Certification:	<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Disability Business Enterprise				
Address:					
Point of Contact:					
Telephone:					
Email:					
Detailed Description of Work To Be Performed by Subcontractor or Materials to be Supplied by Supplier:					
Total Contract Value (\$):		Subcontract Value (\$):		ISBE Participation Rate (%):	
Anticipated Date of Performance:					

I certify under penalty of perjury that the forgoing statements are true and correct.

Prime Contractor/Vendor Signature	Title	Date
Subcontractor/Supplier Signature	Title	Date

APPENDIX B. Insurance

All Contractors, and Contractors shall require all subcontractors, to procure at their own cost and expense and maintain in full force and effect during the entire term of the contract until all of their obligations have been discharged, including any warranty periods or extended reporting periods, against any claims, damages or causes of action (including costs and attorneys' fees) that may arise from or in connection with, in whole or part, the performance of the contract and the results of the performance of the contract by the Contractor, its agents, representatives, officers, employees, subcontractors or any other entity or person for which the Contractor is legally responsible, the following insurance coverages:

Commercial General Liability. \$1,000,000 combined single limit per occurrence and aggregate covering bodily injury (including death), broad form property damage, personal and advertising injury, independent contractors, products and completed operations and contractual liability. This insurance shall be in policy or policies of insurance written on an occurrence basis.

Automobile Liability. \$1,000,000 combined single limit per occurrence for bodily injury and property damage for all automobiles used in conjunction with the performance of this Contract covering all owned, non-owned, or hired vehicles. If a Contractor does not own an automobile, but one is used in the performance of this Contract, then only hired and non-owned coverage is required. If a vehicle is not used in the performance of a Contract, then automobile coverage is not required.

Workers' Compensation and Employers' Liability. Statutory coverage as required by the compensation laws of the State of Rhode Island or any applicable state law in which any work related to the contract is performed and Employers' Liability with minimum limits of \$100,000 each accident, \$100,000 disease or policy limit and \$100,000 each employee. A Contractor neither eligible for, nor entitled to, Worker's Compensation who is an independent contractor under Rhode Island law must comply with the statutory procedure precluding an independent contractor from bringing a workers' compensation claim against the Insured Parties.

Professional Liability ("Errors and Omissions"): \$1,000,000.00 or 5% of estimated project cost, whichever is greater. Professional Liability covering any damages caused by an error, omission, negligence or any wrongful acts of Contractor, its subcontractors, agents, officers or employees under the contract. Coverage to include: product failure; security failure; professional liability including, but not limited to, intellectual property infringement; and, personal injury if limited or uninsured under commercial general liability insurance. Coverage to be maintained for the term of the contract and for a period of three years after the contract has ended.

The State of Rhode Island, its departments, agencies, officers, employees, agents, volunteers, and any party authorized by R.I. Gen. Laws § 37-2-1, *et seq.* and the Purchasing Regulations to participate in a procurement, and any other party directed by the State (together the “Insured Parties”) and Contractor shall submit a copy of a policy endorsement or blanket endorsement evidencing the Insured Parties as an additional insured to the Contractor’s Liability policies. This requirement shall not apply to Workers’ Compensation and Employers’ Liability.

Any deductible, self-insured retention, or form of self-insurance amount under the policies shall be the sole responsibility of the Contractor and shall be disclosed to and acceptable to State.

This insurance shall be in policy or policies of insurance, primary and excess, including the so-called umbrella or catastrophic form and must be placed with insurers authorized to do business in Rhode Island, rated “A-,” class VII or better by A.M. Best Company, Inc., provided any excess policy follows form for coverage. A lesser rating must be approved by the State. The insurance required through this Section, through a policy or endorsement, shall include:

- a) A Waiver of Subrogation waiving any right to recovery the insurance company may have against the Insured Parties;
- b) A provision that Contractor’s insurance coverage shall be primary as respects any insurance, self-insurance or self-retention maintained by the Insured Parties and that any insurance, self-insurance or self-retention maintained by the State or any additional insureds shall be in excess of the Contractor’s insurance and shall not contribute with it;
- c) Cross-liability/severability of interests for all policies and endorsements;
- d) The insolvency or bankruptcy of the insured Contractor shall not release the insurer from payment under the policy, even when such insolvency or bankruptcy prevents the insured Contractor from meeting the retention limit under the policy; and,
- e) The legal defense provided to the Insured Parties under the policy and any endorsements must be free of any conflicts of interest, even if retention of separate legal counsel for the Insured Parties is necessary.

There shall be no cancellation, material change, or potential exhaustion of aggregate limits without thirty (30) days prior written notice by registered or certified mail from the Contractor or its insurer(s) to the Department of Administration, Division of Purchases Attn: Purchasing Agent, One Capitol Hill, Providence, RI 02908.

As evidence of the insurance required by this Section, the Contractor shall furnish Certificates of Insurance and required additional insured endorsements to the Department of Administration, Division of Purchases before Notice of Contract Award by the Division of Purchases. Failure to comply with this provision may result in rejection of the bid offer. Certificates of Insurance and required endorsements shall thereafter be submitted annually or earlier upon expiration and renewal of any of the policies.

Certificates of Insurance and additional insured endorsements shall be in form and coverage acceptable to the State. All Certificates of Insurance and to the extent possible for endorsements shall reference the State procurement number. State retains the right to demand a certified copy of any required insurance policy, Certificate of Insurance or endorsement.

The Contractor shall be responsible to obtain and maintain insurance on any real or personal property owned, leased or used by or otherwise in the care, custody or control of Contractor. A waiver of subrogation shall apply in favor of the Insured Parties.

The Insured Parties shall be indemnified and held harmless to the full extent of coverage actually secured by the Contractor in excess of the minimums set forth herein and the duty to indemnify the Insured Parties shall not be limited by the insurance required in this Section.

The Contractor shall comply with any other insurance requirements including, but not limited to, additional coverages or limits contained in the solicitation that differ from this Section.

Failure to comply with this Section is a material breach of contract entitling the State to terminate or suspend the contract immediately.

This Section shall survive expiration or termination of the contract.

The Purchasing Agent reserves the right to consider and accept alternative forms and plans of insurance or to require additional or more extensive coverage for any individual requirement.

APPENDIX C. “FirstNet Final Data Collection Report”

Attached is the “FirstNet Final Data Collection Report” dated September 30, 2016 for Vendor review and consideration.

FIRSTNET FINAL DATA COLLECTION REPORT

SUBMITTED BY:

RHODE ISLAND EMERGENCY MANAGEMENT AGENCY

On behalf of the State of Rhode Island

Tom Guthlein, FirstNet SPOC

Stuart Freiman, FirstNet Project Manager

September 30, 2016



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Introduction

Rhode Island Emergency Management Agency (RIEMA) is pleased to submit this second and final FirstNet Data Collection report on behalf of the State of Rhode Island. The purpose of this data collection as described by FirstNet is: *“to inform FirstNet’s acquisition toward a Comprehensive Network Solution(s) and state plans. Participation from the broad public safety community is critical to ensure the network meets the needs of public safety.”*

The report follows the template provided by FirstNet entitled “FirstNet Data Collection Elements (March 2015)” which comprises multiple data formats including text (.doc & .pdf), spreadsheet (Excel), and Geographic Information System (GIS) geodatabase (.gdb & .mxd). It contains the following information:

- **Coverage:** Identify desired coverage within the state or territory and proposed build out phases.
- **Users and Operational Areas:** Gather information on the eligible user base and their respective operational areas.
- **Capacity Planning:** Estimate current data usage today from typical users with indicators of potential growth.
- **Current Broadband Services/Procurement:** Identify current services and plans, procurement vehicles, and barriers to adoption.

The data collection process was performed in collaboration with EA Engineering, Science and Technology, Inc., PBC (EA), the subcontractor for the project. EA developed the project process flows, online survey, data repository, reports and GIS analysis.

RIEMA identified 246 Public Safety Entities (PSEs) based on the definition provided by FirstNet. The location of the PSE identified is available in Figure 1. Information about all the entities identified is available in Excel spreadsheet *Rhode Island Master PSE List 093016*.

The FirstNet Survey was completed via online survey questionnaire or handwritten responses. The survey submission deadline was 31 August 2016. RIEMA received 134 responses; a 54% response rate for the entire PSE community. The distribution of PSE that responded to the survey is available in Figure 2.

Because of the nature of emergency response and governance in Rhode Island, RIEMA decided that the operational boundaries for the data collection be at the municipal level; of which there are 39 in the state. There are public safety entities that have a statewide presence, but where possible, the number of users and devices were aggregated to the municipal level.

Rhode Island is the second most densely populated state in the country with the majority of the population lives in the greater Providence area, as shown in Figure 3. Figure 4 shows the PSE community distribution as compared to the population density. The data submission package contains a spreadsheet entitled *Rhode Island Data Collection Results 093016* with detailed information about the 246 PSEs located in Rhode Island in the format requested by FirstNet.

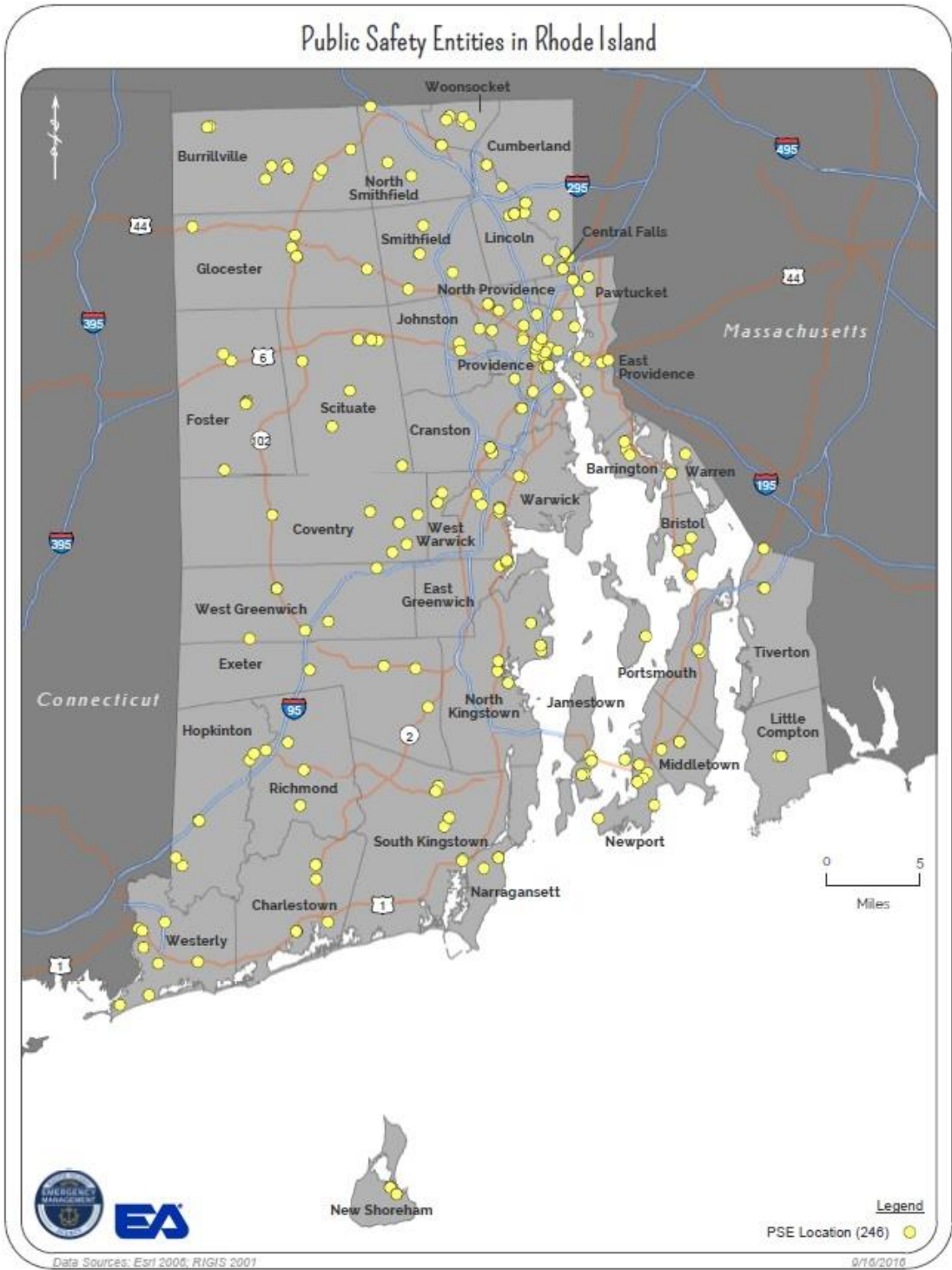


Figure 1: PSE Locations in Rhode Island

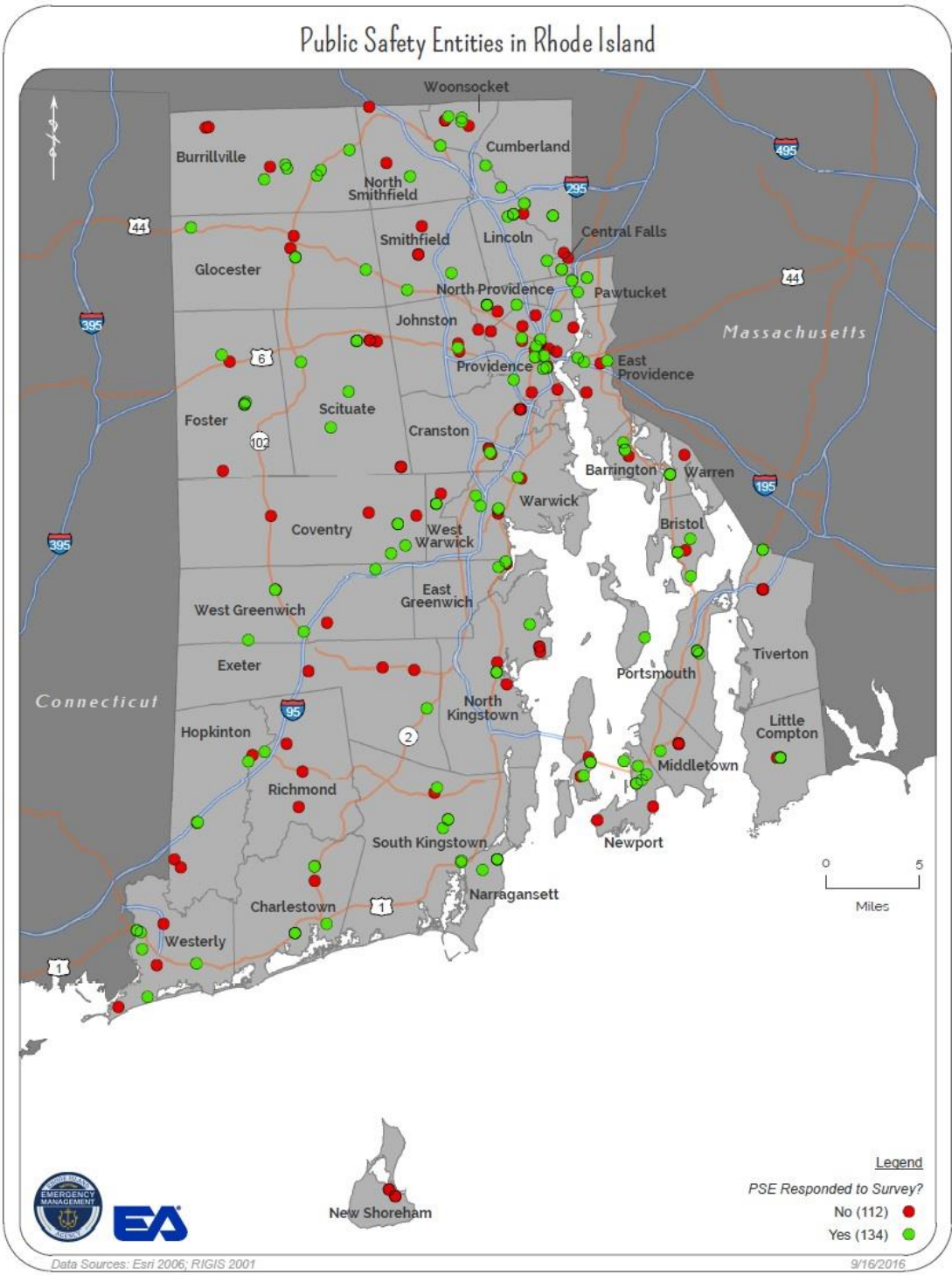


Figure 2: Map of PSE Survey Respondents

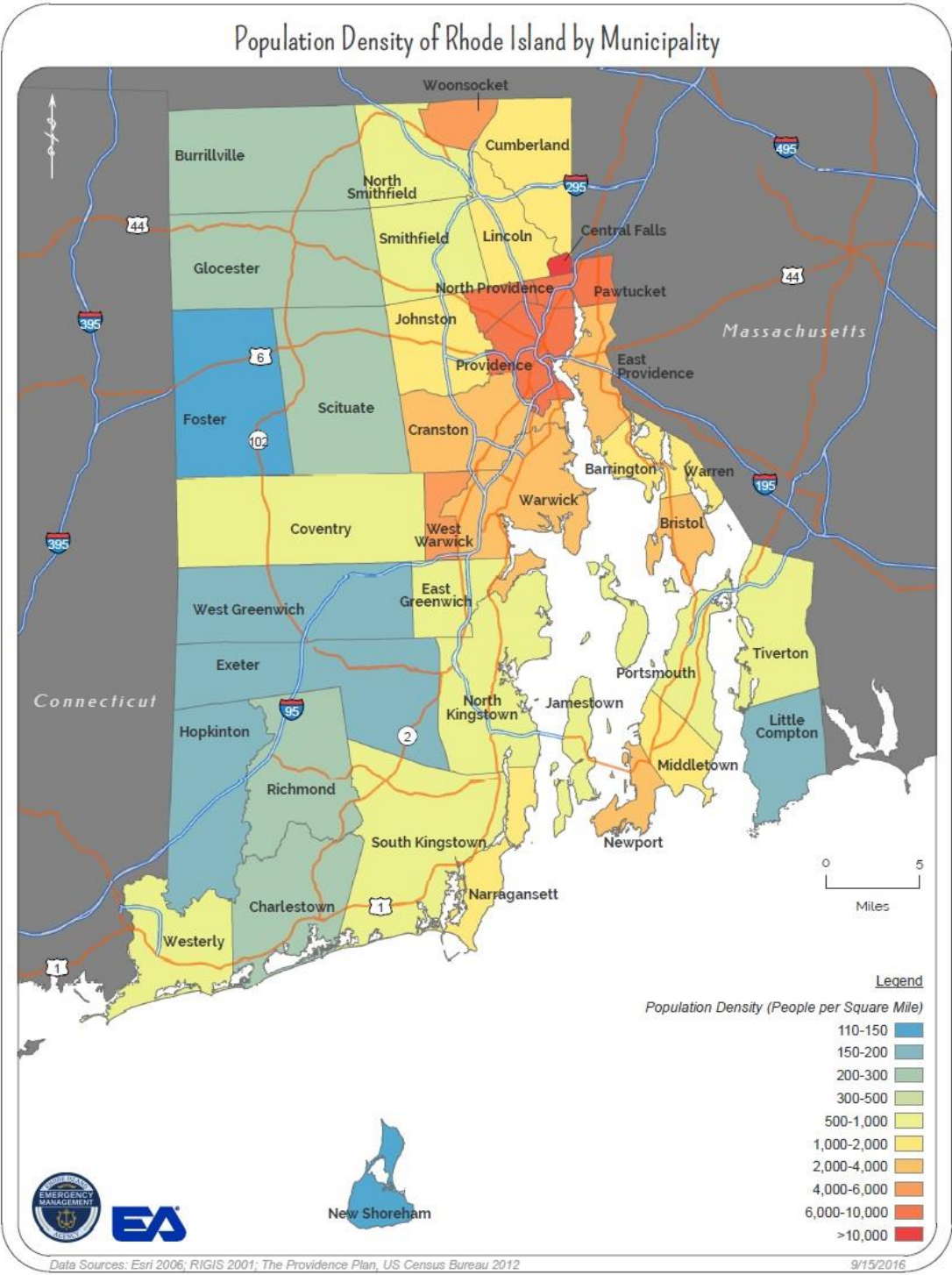


Figure 3: Map of Rhode Island population density by municipality

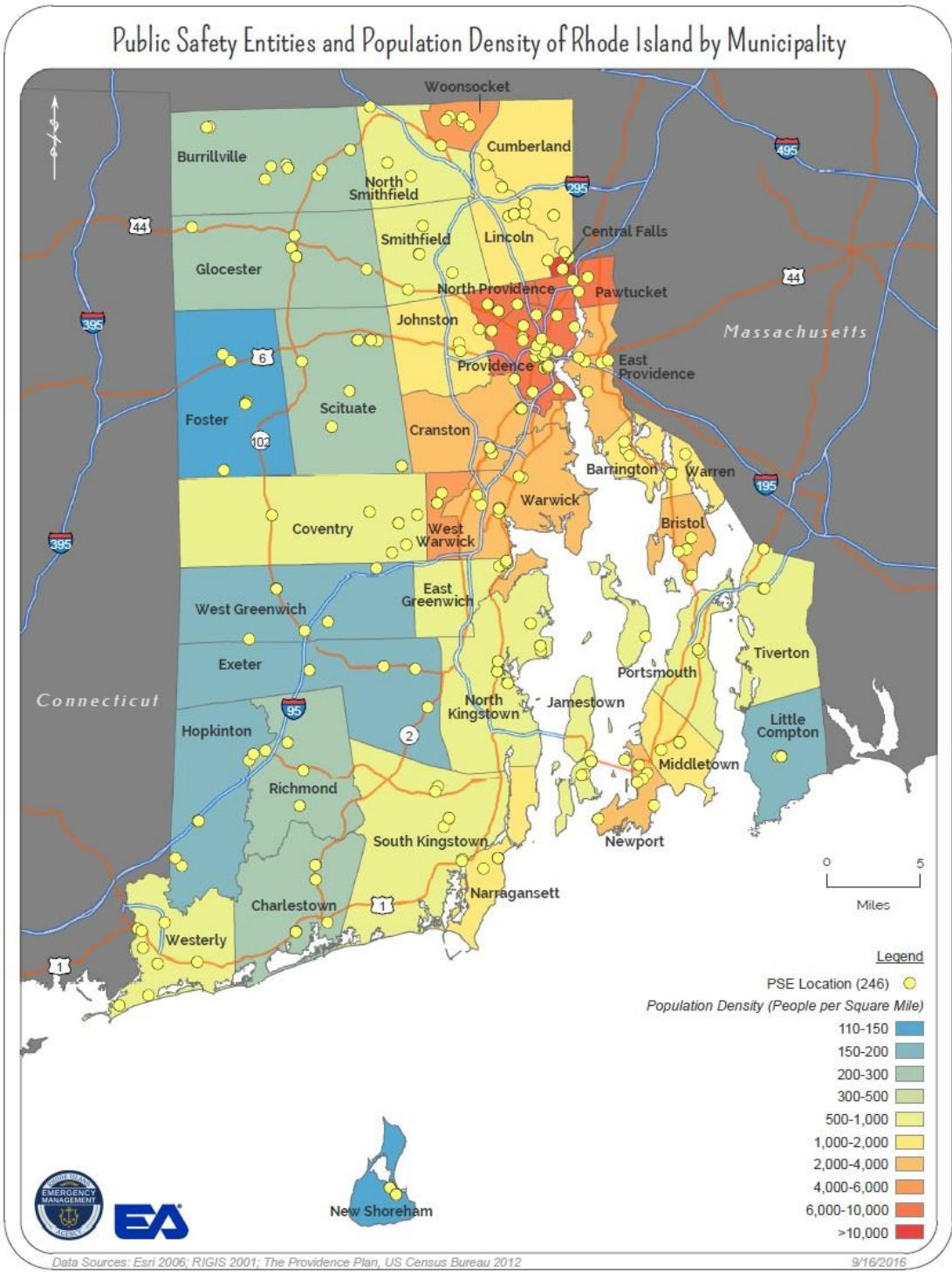


Figure 4: Map of Rhode Island PSEs with population density by municipality

I. Coverage

Using GIS Spatial Analysis, RIEMA reviewed the baseline coverage objective provided by FirstNet (Figure 5). For consistency, the data from FirstNet was normalized to the municipal boundaries (Figure 6). Based on discussion with the FirstNet, the baseline coverage objective should be interpreted to mean that every square mile polygon in the grid with a traffic concentration designation is a location that needs to be covered by terrestrial wireless broadband. In the map of Rhode Island, all but one square mile has been designated for coverage by terrestrial wireless broadband. RIEMA concurs with the baseline coverage objective assumption; the data and analysis contained herewith provides the details to support the baseline.

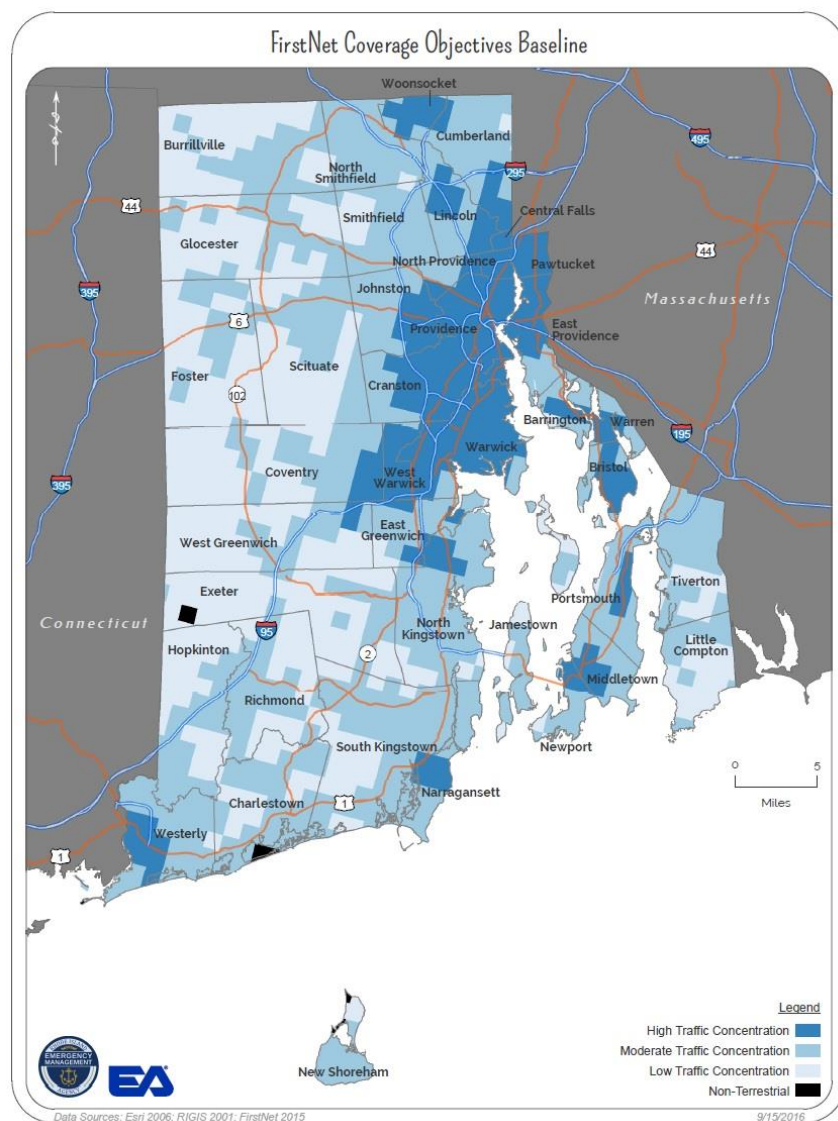


Figure 5: Map of Rhode Island baseline broadband traffic volume (Source: FirstNet)

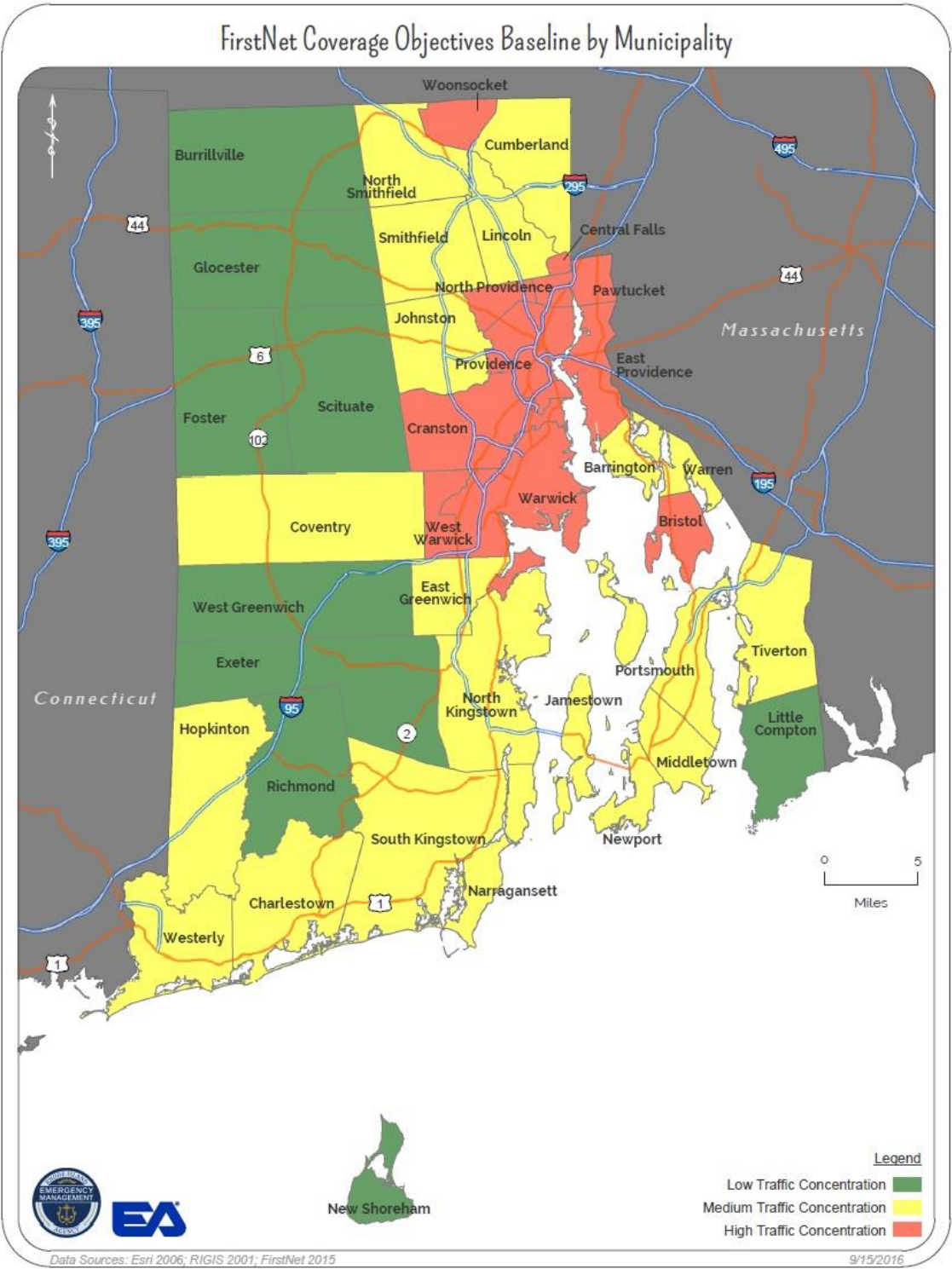


Figure 6: Map of Rhode Island baseline broadband traffic volume normalized to conform to municipal boundaries

Additional geographic considerations:

- 1) The highest natural point in Rhode Island is 812 ft. on Jerimoth Hill (northwest section of the state). Although not mountainous, much of the terrain in the western part of the state comprise rolling hills, dense forests and low population densities.
- 2) The state boundaries include New Shoreham (Block Island) which is approximately 13 miles off the southern coast of the state.
- 3) There is a substantial amount of inland water contained within the states' boundaries; which contributes to the 400 miles of coastline and adds another 500 square miles to the footprint of the state. The data collection covers the terrestrial areas, but the coastal and aquatic areas are very active and need to be considered in the overall coverage footprint.

II. Users and Operational Areas

The data collected about PSEs are contained in the spreadsheets entitled:

- *Rhode Island Master PSE List 093016*
- *Rhode Island Data Collection Results 093016*

In addition, there is a folder entitled *RIEMA_GIS_093016* that contains all of the map documents (.mxd files) and data (.gdb files) used in the report figures. The folder also contains PDF versions of each figure. All work was performed in ArcGIS 10.3.1. Metadata has been included for each feature class in the geodatabase. Table 1 below contains the summary of both collected data and estimated number of personnel and devices for eligible public safety entities based on the known PSEs. The map in Figure 7 shows the surveyed PSE device counts by municipality. NOTE: The State of Rhode Island does not keep historic e911 data and hence this information was not available for analysis.

Table 1: Surveyed and estimated PSE personnel and device counts

2c. Objective: Estimate the total number of eligible Public Safety Entities, associated personnel and devices within the State/Territory. Use surveys, interviews and samples to help estimate the totals.								
Discipline Examples	Surveyed Data (Sampling)				Known PSE Agencies with Estimated Personnel			
	Agencies	Personnel	Devices	Dev./User	Agencies	Personnel	Dev./User	Devices
Law Enforcement (Municipal Police, State Police, Sheriff, Highway Patrol)	32	4,410	3,474	0.8	50	6,083	0.8	4,792
Fire Service	44	1,341	842	0.6	71	2,164	0.6	1,359
Emergency Medical Services	11	135	30	0.2	7	10	0.2	2
Courts, Corrections and Security				No Entry			No Entry	
Emergency Management	18	176	39	0.2	42	411	0.2	91
Facilities and Land Management				No Entry			No Entry	
Highway and DOT	11	332	197	0.6	41		0.6	0
Hospitals and Medical Facilities	13	22,105	8,351	0.4	21	35,708	0.4	13,490
National Security/Intelligence				No Entry			No Entry	
Public Administration and Support Services				No Entry		0	0.3	0
Public Health	1	605	225	0.4	2		0.4	0
Public Safety Communications				No Entry	3		No Entry	
Public Utilities (Electricity, Gas, Water, Telecom and Sewer)				No Entry			No Entry	
Specialized Law Enforcement (Investigations, Intelligence, Dignitary Protection, etc.)	2	29	14	0.5	7	35	0.3	11
Transportation Operations (Air, Pipeline, Rail, Sea and Waterway)	2	94	40	0.4	2		0.4	0
Other Governmental Agencies				No Entry			No Entry	
Other Regulatory Agencies				No Entry			No Entry	
Other Non-Specified				No Entry			No Entry	
TOTAL	134	29,227	13,212	0.5	246	44,410	0.4	19,744

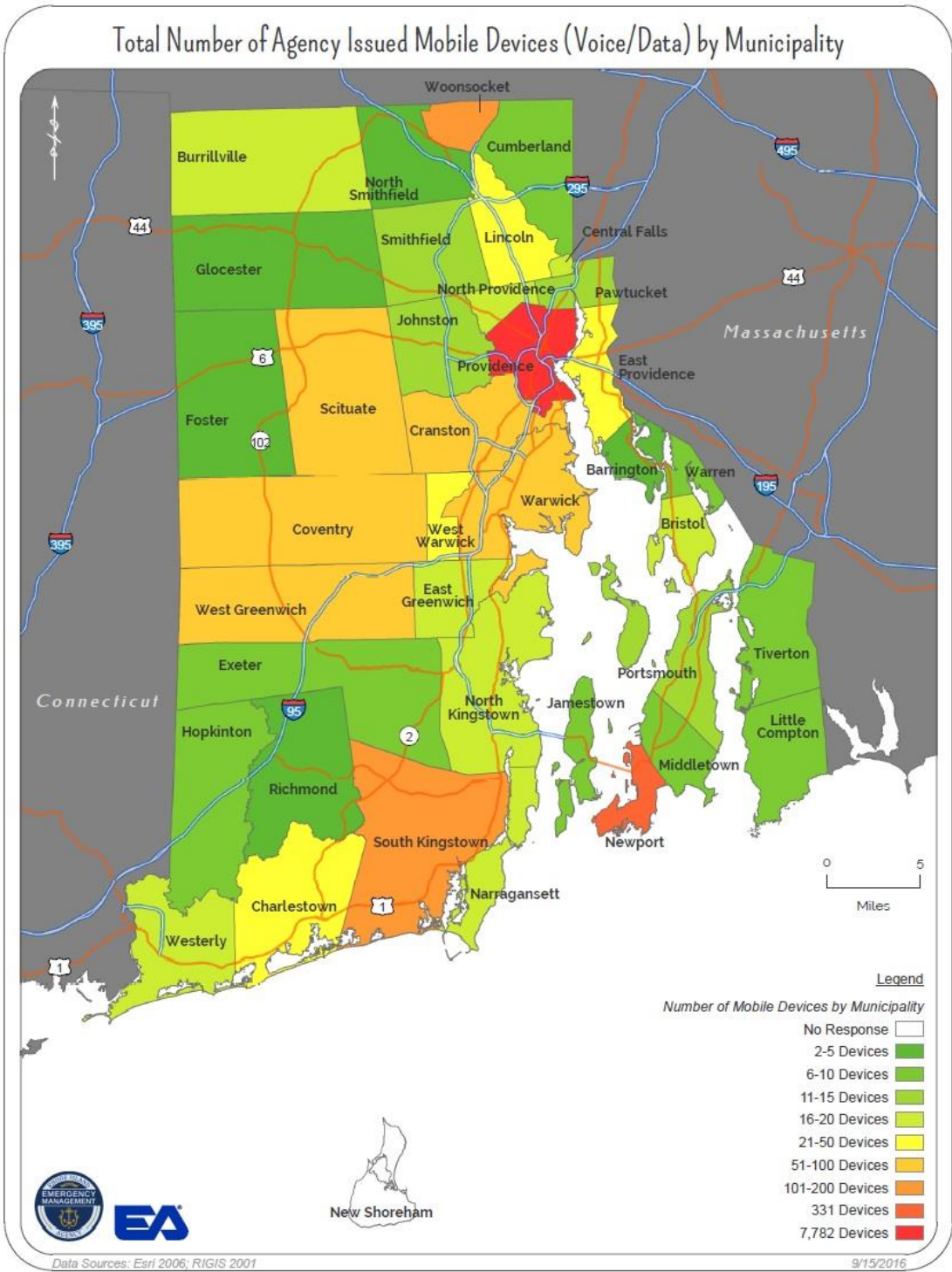


Figure 7: Map of Rhode Island surveyed PSE device counts by municipality

III. Capacity Planning

A review of the information collected from the Rhode Island PSE's regarding the usage of applications shows a wide range of answers. Today, public safety personnel mostly use broadband for general Internet connectivity and communications such as text and messaging. In general, these applications are not data intensive. For more advanced data intensive applications there is some usage today but the most common answers are "not used" and "not used but desired." The data leaves a lot of room for interpretation, but the general sense is that current usage is not "mission critical" but rather "adjunct" to their critical needs.

Clearly, there is large upside opportunity to create both the infrastructure as well as applications that drive broadband adoption and make it more central to the public safety community. Capacity planning is hard to predict as usage is determined both by the quality of the network itself as well as the quality (and type) of applications they use on the network. These are interrelated in that the more the network is "mission-capable" the more applications will be used on that network.

During the FirstNet Rhode Island State Consultation meeting, the State outlined three scenarios that were typical of the kinds of incidents that would require a mission critical, high performing broadband network. The scenarios are 1) The Station Nightclub Fire, 2) The Ringling Brothers Circus accident and 3) the RIPTA bus shooting incident. As described at the meeting, these incidents all required cross-agency, cross-jurisdiction, response and cooperation in a situation that required a large upsurge in network use for a concentrated period of time. This type of capacity could require bursts of data flow in the 10x to 100x mbps range. It is important to note that the cellular/data networks used during those incidents all failed to operate satisfactorily.

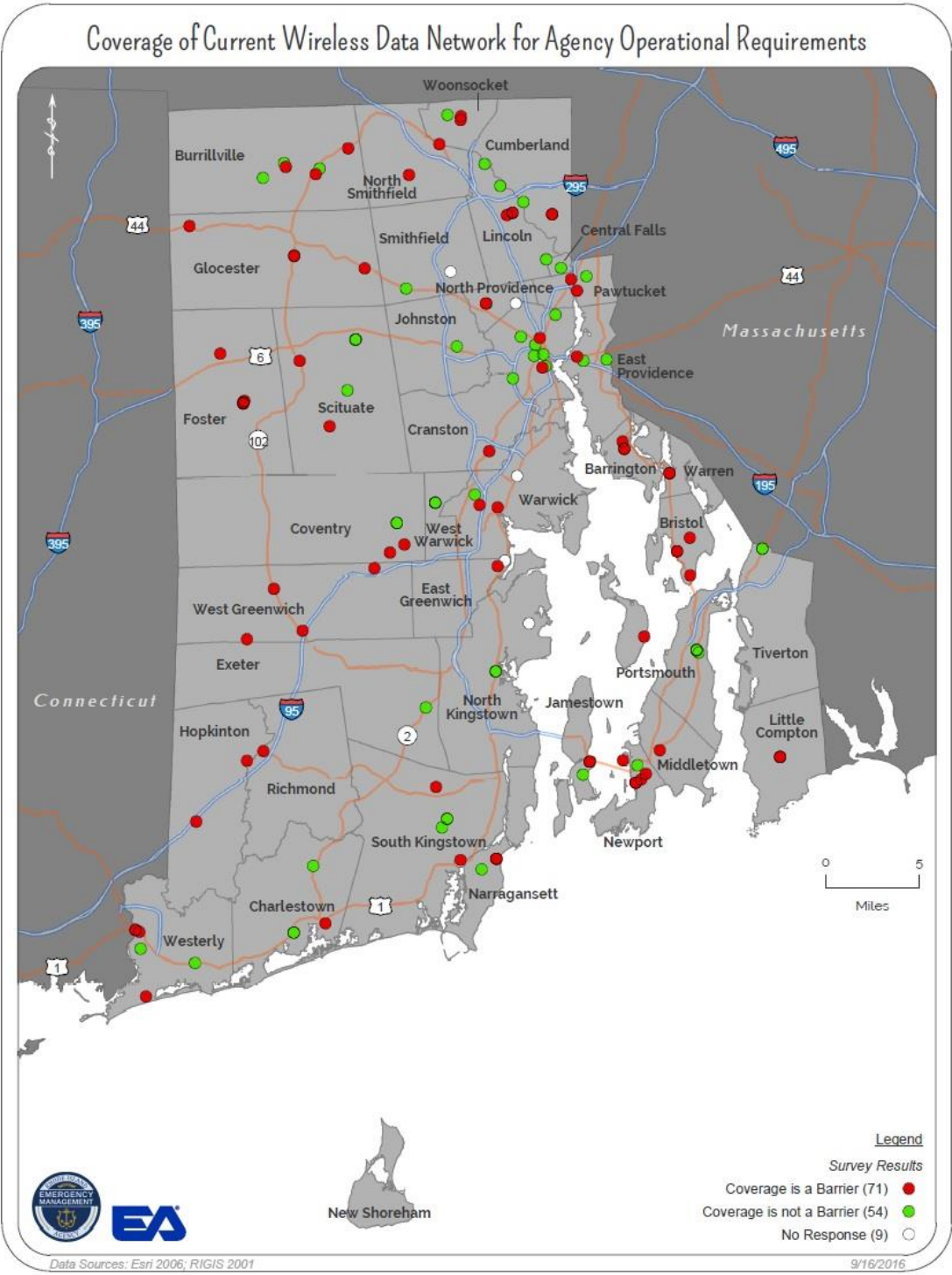
See Sheet 3a in the spreadsheet *Rhode Island Data Collection Results 093016* for detailed information about current and future broadband application usage.

IV. Current Providers/Procurement

The last section of data collection concerns the current broadband subscription plans and procurement processes. In addition, the respondents were asked about the barriers to broadband adoption. See Sheet 4a. and 4b. in the spreadsheet *Rhode Island Data Collection Results 093016* for the detailed information.

The survey responses to "coverage of wireless data network does not meet agency operational requirements" and "speed and efficiency of data services does not meet requirements" questions were mapped in Figure 8 and Figure 9 respectively.

The maps show that the answers to these open-ended questions were wide ranging. But it is interesting to note that coverage was perceived to be a barrier for more respondents in the western part of the state which as noted is hillier, forested and less populated. Whereas the answers to the question about reliability as a barrier was more evenly distributed around the state. Again, these are crucial issues for FirstNet to address in their planning and execution.



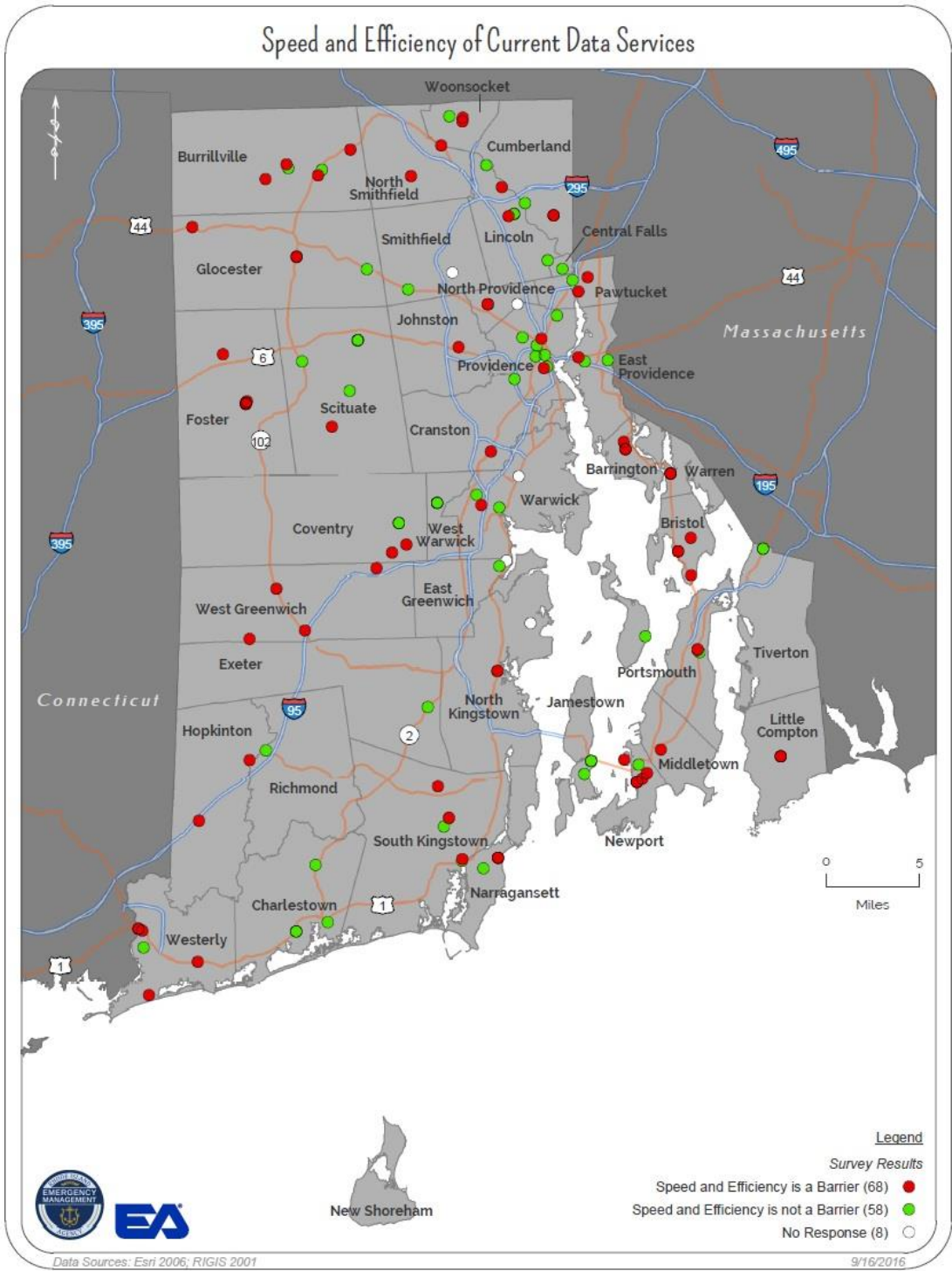


Figure 9: Map of perceived reliability issues by municipality

Appendix: Rhode Island Municipalities

The Table 2 below identifies the 39 municipalities that comprise Rhode Island and provides select relevant information about them. Demographic information was determined by the 2010 Census data.

Table 2: Table of Relevant Municipal Demographics

Municipality	Area (sq. mile)	Population	# PSE Orgs.
BARRINGTON	8.51	16919	4
BRISTOL	9.84	23297	5
BURRILLVILLE	56.94	16633	9
CENTRAL FALLS	1.29	21182	4
CHARLESTOWN	37.92	8985	7
COVENTRY	62.46	38478	7
CRANSTON	28.93	88092	8
CUMBERLAND	28.23	33998	5
EAST GREENWICH	16.30	15334	4
EAST PROVIDENCE	13.75	48835	5
EXETER	58.39	10748	4
FOSTER	51.94	5991	7
GLOCESTER	56.81	12227	6
HOPKINTON	44.14	8824	7
JAMESTOWN	9.53	5405	5
JOHNSTON	24.32	33712	4
LINCOLN	18.92	23199	8
LITTLE COMPTON	22.49	4173	4
MIDDLETOWN	13.19	17751	4
NARRAGANSETT	14.12	16278	4
NEW SHOREHAM	9.55	1051	4
NEWPORT	8.00	25350	8
NORTH KINGSTOWN	44.07	28562	8
NORTH PROVIDENCE	5.79	35593	6
NORTH SMITHFIELD	24.88	14593	5
PAWTUCKET	8.79	72950	5
PORTSMOUTH	23.29	17491	5
PROVIDENCE	18.76	183183	26
RICHMOND	40.75	9459	4
SCITUATE	54.80	13957	11
SMITHFIELD	27.61	22807	5
SOUTH KINGSTOWN	60.20	32507	7
TIVERTON	29.91	16530	4
WARREN	6.20	11126	4
WARWICK	35.73	85194	7
WEST GREENWICH	51.22	8453	7
WEST WARWICK	8.10	35330	4
WESTERLY	30.25	23510	9
WOONSOCKET	7.88	42052	6