



**FirstNet**®



# **New Hampshire Governance Body Meeting**

*Working together to bring broadband to Public Safety Entities*

**May 6, 2016  
Concord, New Hampshire**

# Agenda & Goals



Topic	Goal
<b>FirstNet Overview (10 Minutes)</b>	<i>Educate and update</i>
<b>New Hampshire Consultation to Date (5 Minutes)</b>	<i>Recap and consider continued data collection (optional)</i>
<b>FirstNet State Plan (15 Minutes)</b>	<i>Identify potential issues and set expectations for New Hampshire review process</i>
<b>The Governor's Decision (10 Minutes)</b>	<i>Discuss process, timeline, and risks</i>
<b>Preparing for Adoption (10 Minutes)</b>	<i>Overview of Consultation Task Teams</i>
<b>Questions &amp; Next Steps (10 Minutes)</b>	<i>Answer questions and begin preparing for Executive Consultation</i>

# A New Model for Public Safety



***“Following numerous major events and other significant disasters that demonstrate communications failures, we know that a new model is necessary.... Required is a national architecture for public-safety wireless communications.”***

***Chief Jeff Johnson - Congressional Testimony, May 2011***

- Network **demand**ed by public **safety** for priority and interoperability
- Made possible by the successful fight for **D-Block 700 MHz** spectrum
- **FirstNet** created by Law to develop and implement a single nationwide public safety broadband network
- Network will be **public/private partnership** to limit agency risk, speed deployment and meet public safety unique needs



***“FirstNet must provide a service that is compelling to public safety in order to earn your business.”***

***FirstNet Chairwoman Sue Swenson***

- FirstNet will be a new nationwide **LTE cellular service provider**
- Agencies will pay **monthly use fees** consistent with current commercial model
- Provide **mission critical service** with priority & ruthless preemption
- Support **mobile devices** including air cards, smartphones and tablets
- Support **existing & new applications** (CAD/RMS, Video, etc.)



***“While we still have much work to do, FirstNet has set the stage by moving forward with urgency. We are now one deployment cycle away from having a nationwide public safety broadband network.”***

***FirstNet President TJ Kennedy***

- **Key Accomplishments**
  - ✓ Released Strategic Program Roadmap
  - ✓ Completed 55 Initial Consultations
  - ✓ Participated in more than 340 stakeholder events in calendar year 2015
  - ✓ Released RFP; answered more than 400 questions
- **Key Upcoming Milestones**
  - Conduct focused consultation with expanded outreach
  - Award RFP for network partnership
  - Architect State Plans process and elements

# RFP Statement of Objectives



**Building, Deployment, Operation & Maintenance of the NPSBN**



**Financial Sustainability**



**First Responder User Adoption**



**Device Ecosystem**



**Applications Ecosystem**



**Accelerated Speed to Market**



**User Service Availability**



**Service Capacity**



**Cyber Security**



**Priority Services**



**Integration Of Opt-out State RANs**



**Integration of Existing Commercial/ Federal/ Tribal/State/ Local Infrastructure To Support NPSBN Services**



**Life-cycle Innovation**



**Program and Business Management**



**Customer Care and Marketing**



**Facilitation of FirstNet's Compliance With The Act & Other Laws**

# Evaluation Phase Has Kicked Off



# Recap of New Hampshire Consultation to Date



## **1. New Hampshire Initial Consultation Meeting**

- June 9, 2015, in Concord, New Hampshire
- > 50 attendees

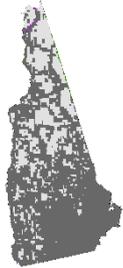
## **2. Additional New Hampshire Specific Meetings/Communications**

- Data Collection Calls (December 2015)
- FirstNet RFP Release Call (January 2016)
- SPOC Kickoff Meeting (February 2016)
- Updates on RFP (February 2016)
- Updates on CTT (March 2016)

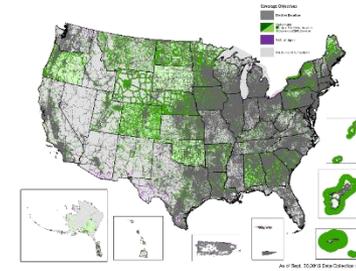
# How Was State Data Used in the RFP?



## Coverage Objectives



**Nationwide Objective**

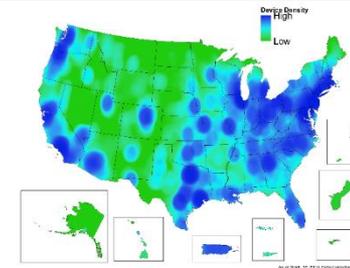


## User Survey Data

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)				Estimated Totals			
	Agencies	Personnel	Devices	Devices	Agencies	Personnel	Devices	Devices
Law Enforcement (Police, Sheriff, State Police, Sheriff, Highway Patrol)	250	25,000	10,000	1.2	2,000	80,000	1.2	94,000
Fire Services	150	1,000	800	0.8	300	40,000	0.8	48,000
Emergency Medical Services	50	800	700	1.8	200	20,000	1.8	20,000
Courts, Corrections and Security				No Entry			No Entry	
Emergency Management				No Entry			No Entry	
Firearms and Law Enforcement				No Entry			No Entry	
Highways and DOT				No Entry			No Entry	
Hospitals and Medical Facilities				No Entry			No Entry	
National Security/Intelligence				No Entry			No Entry	
Public Administration and Support Services				No Entry			No Entry	
Public Health				No Entry			No Entry	
Public Safety Communications				No Entry			No Entry	
Public Utilities (Electricity, Gas, Water, Telecom and Sewer)				No Entry			No Entry	
Specialized Law Enforcement (Investigative, Intelligence, Organized Protection, etc.)				No Entry			No Entry	
Transportation Operations (Air, Pipeline, Rail, Sea and Spaceport)				No Entry			No Entry	
Other Governmental Agencies				No Entry			No Entry	
Other Regulatory Agencies				No Entry			No Entry	
Other Non-Specified				No Entry			No Entry	
<b>TOTAL</b>	<b>400</b>	<b>26,500</b>	<b>11,500</b>	<b>1.2</b>	<b>2,300</b>	<b>100,000</b>	<b>1.8</b>	<b>174,000</b>

**User, device and tonnage estimates informed capacity evaluation and total addressable market**



## Submission Files



**RFP Reading Room**





## Pre-Acquisition Data Collection

(Due September 30, 2015)

- **Strongly Encouraged by FirstNet**
- **Informed RFP** (*Aggregated Nationwide and Full Submission in Reading Room*)
- **Considered in evaluation of bidders**
- **Helps State better understand its needs and environment**

## Ongoing Data Collection (Optional)

(Due September 30, 2016)

- **Optional / State Decision**
- **Further Inform State Plan** (*If received by September 30, 2016*)
- **Considered for product and enhancement decisions**
- **Helps State better understand its needs and environment**

# FirstNet State Plan

## Development & Delivery Process

### **“SEC. 6302. STATE AND LOCAL IMPLEMENTATION.**

#### **(e) STATE NETWORK.—**

*(1) NOTICE.—Upon the completion of the request for proposal process conducted by the First Responder Network Authority for the construction, operation, maintenance, and improvement of the nationwide public safety broadband network, the First Responder Network Authority shall provide to the Governor of each State, or his designee—*

- (A) notice of the completion of the request for proposal process;*
- (B) details of the proposed plan for buildout of the nationwide, interoperable broadband network in such State; and*
- (C) the funding level for the State as determined by the NTIA.”*



What the Law  
requires...

What the States  
are looking for...



What the RFP  
will produce...

What the FCC &  
NTIA need ...

## One Portal / Two Purposes



## Public Safety Entities



### COVERAGE

Band 14 coverage, possible non-Band 14 coverage, and deployable options



### APPLICATIONS AND FEATURES

Public Safety-facing applications, Quality of Service, Priority and Pre-emption (QPP), ICAM and Mission Critical services



### SERVICES

Plans, pricing, procurement options, security, and customer support



### DEVICES AND ACCESSORIES

Band 14 device portfolio, accessories, and wearables

## Governor

### POLICY COMPLIANCE

FirstNet policies on coverage, security, performance and other matters must be planned for and adhered to in Opt-Out scenarios.

### TIMEFRAME/COST

Opt-Out proposals must be comparable in terms of deployment timeframe and cost. Cost comparison metrics will be included.

### INTEROPERABILITY

Alternative RAN proposals must have and maintain interoperability with the FirstNet core throughout the terms of agreement. Network policies and equipment specifications will be included.

# Portal Purpose 1: Unveiling our Products & Services



Question / Issue	Approach	
<b>Key Focus?</b>	Wireless Services, Applications, Devices, Accessories	
<b>Goal of Portal?</b>	Differentiate FirstNet from Commercial (value)	
<b>Role of the SPOC?</b>	Dissemination and Outreach, Identify Key POCs	
<b>Consideration?</b>	Should my agency begin planning to adopt service?	
<b>Feedback Use/Deadline?</b>	Ongoing (service offerings, product portfolio, policies)	
<b>Is Access Controlled?</b>	No – Open to all	
<b>If You are Not Satisfied?</b>	<u>Agency</u> doesn't adopt FirstNet, Stays with Commercial Service until FirstNet "wins" your business	

# Portal Purpose 2: Informed State RAN Decision



Question / Issue	Approach	
<b>Key Focus?</b>	FirstNet's proposed RAN deployment (Nationwide & State)	
<b>Goal of Portal?</b>	<p><b>Considering Opt-Out:</b> Provide technical interoperability specifications for comparison</p> <p><b>Not Considering Opt-Out:</b> Informational Only</p>	
<b>Role of the SPOC?</b>	Detailed discussion with responsible agencies	
<b>Consideration?</b>	Does your State want to accept responsibility to deploy, operate, maintain and upgrade the RAN?	
<b>Feedback Use/Deadline?</b>	RAN decision (90 Days)	
<b>Is Access Controlled?</b>	Combination – Open / Controlled Access	
<b>If Your State is Not Satisfied?</b>	Undertake opt-out State RAN process	

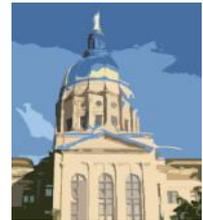
# State Plan Portal Analogy



I would like to rent a room.



Do I want to build and operate the franchise in my State?



# State Plans Consultation in 2016



*J-18 Delivery Mechanism Objectives*  
*J-19 State Plan Template*

**FirstNet  
RFP  
Release**



**State Plans  
Prep**

**FirstNet  
Contract  
Award**



*Jan  
2016*

*April  
2016*

*As Scheduled*

*Nov  
2016*

**Governance  
Group  
Meetings**



**SPOC Team  
Interactions**



**Executive  
Consultation**



# State Plans Development and Delivery



FirstNet Contract Award



Develop State Plans & Prepare for Delivery

Feedback Received



Final Prep for Delivery to Governor

State Plan Delivery to Governor (90 Day Review)

Nov 2016

Set during contract negotiation

Fixed timeframe

ASAP

Release of Draft State Plans



State Plan Draft Review





# The Governor's Decision

## ***“SEC. 6302. STATE AND LOCAL IMPLEMENTATION.***

*(e) STATE NETWORK.—*

*(2) STATE DECISION.—Not later than 90 days after the date on which the Governor of a State receives [a State Plan], the Governor shall choose whether to—*

*(A) participate in the deployment of the nationwide, interoperable broadband network as proposed by the First Responder Network Authority; or*

*(B) conduct its own deployment of a radio access network in such State.”*

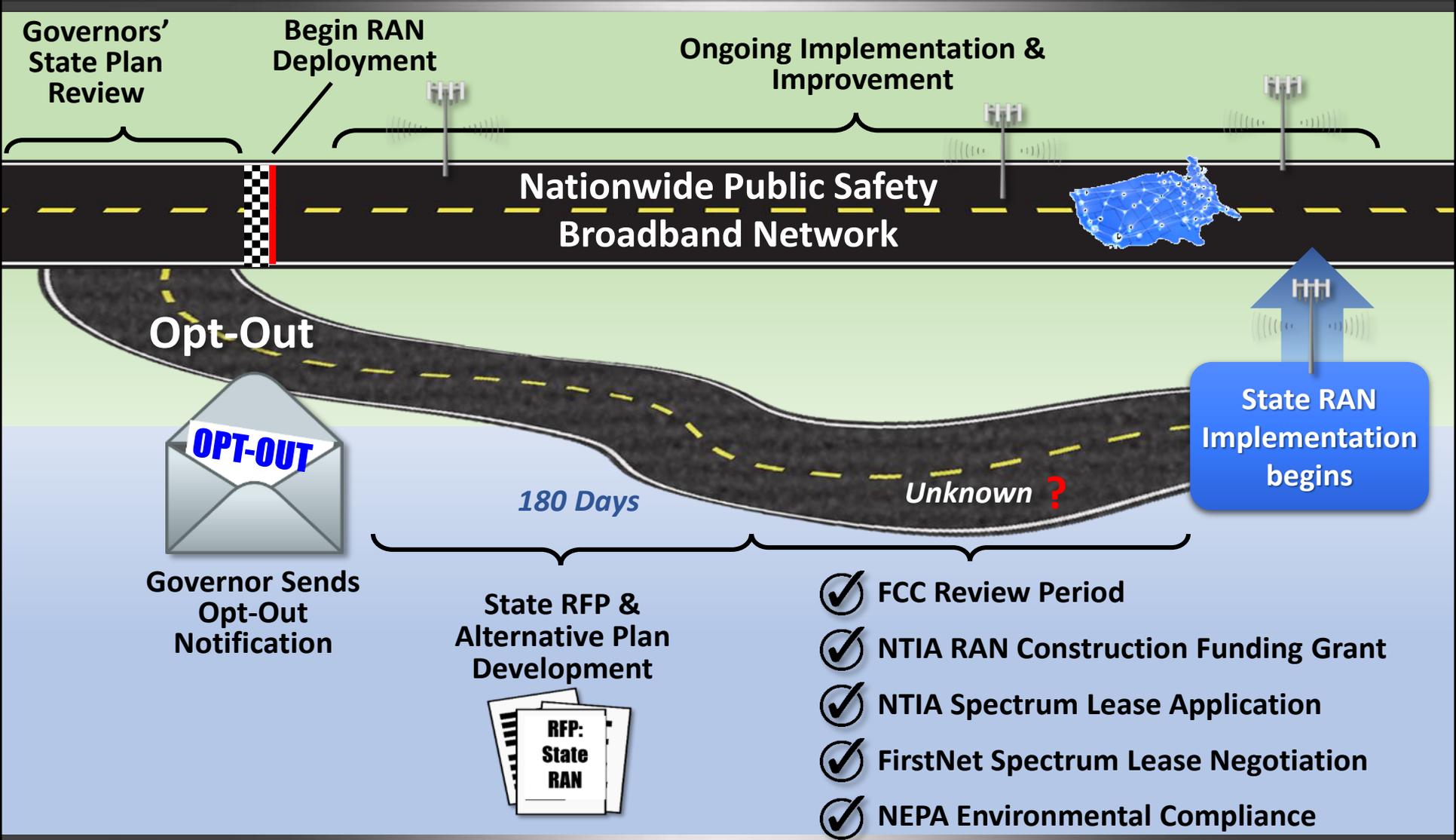


# Responsibilities and Decisions



	Decision	Responsibility	
 <p><b>BAND-14 CORE</b></p>	<p>N/A</p>	<ul style="list-style-type: none"> <li>✓ FirstNet</li> <li><input type="checkbox"/> QPP</li> <li><input type="checkbox"/> Customer Care</li> <li><input type="checkbox"/> Applications</li> </ul>	
 <p><b>RAN DEPLOYMENT</b></p>	<p><b>Governor Decides:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> FirstNet Plan, or</li> <li><input type="checkbox"/> Opt-Out</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> FirstNet, or</li> <li><input type="checkbox"/> Governor</li> </ul>	
 <p><b>WIRELESS SERVICES, PRODUCTS &amp; APPLICATIONS</b></p>	<p><b>Public Safety Entities Decide:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Adopt, or</li> <li><input type="checkbox"/> Don't Adopt</li> </ul>	<p><b>Public Safety Entities</b></p> <ul style="list-style-type: none"> <li>✓ Enterprise Users</li> <li>✓ Individual Users</li> </ul>	

# Governor's Decision: Timeline



# Governor Considerations



Issue	Governor Consideration
1. Timeline Risks	<i>What are the implications of a delay for public safety in the state?</i>
2. RAN Deployment	<i>Short and long-term (25 years) budget outlook? Legislative approval?</i>
3. Ongoing RAN Cost	<i>Will expected state user fees offset the planned and unplanned RAN costs?</i>
4. Technical	<i>What is the state's current technical capacity to handle all network interoperability risks?</i>
5. Operational Risks	<i>Can the state oversee an LTE network deployment?</i>

- **Carefully consider the responsibilities, risks and timelines required to opt-out**
- **Establish clear decision-making process to meet 90 day review period**
- **Educate individuals/bodies who will inform the Governor**
  - Formal Executive Consultation – Fall 2016
  - Ad Hoc executive briefings (as requested)



# Preparing for Adoption Consultation Task Teams

## ***“SEC. 6206. POWERS, DUTIES, AND RESPONSIBILITIES OF THE FIRST RESPONDER NETWORK AUTHORITY.***

### ***(2) STATE AND LOCAL PLANNING.—***

***(A) REQUIRED CONSULTATION.—In developing requests for proposals and otherwise carrying out its responsibilities under this Act, the First Responder Network Authority shall consult with regional, State, tribal, and local jurisdictions...with regard to the—***

- i. construction of core network & any radio access network build out;***
- ii. placement of towers;***
- iii. coverage areas of the network, whether at the regional, State, tribal, or local level;***
- iv. adequacy of hardening, security, reliability, & resiliency requirements;***
- v. assignment of priority to local users;***
- vi. selection of entities seeking access to or use of the nationwide public safety interoperable broadband network***
- vii. training needs of local users.”***



# 2016 Consultation Elements



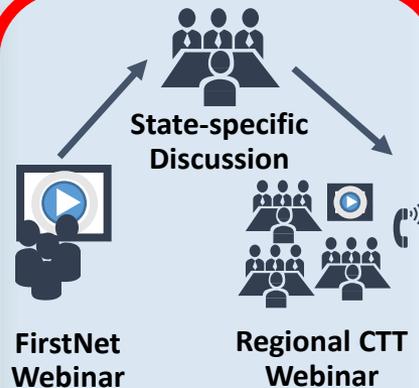
Regional Lead ↔ SPOC

SPOC  
Engagement  
Meeting



Regional Lead  
↕  
Governance Body

Governance  
Body  
Meeting



FirstNet  
Webinar      Regional CTT  
Webinar

Consultation  
Task  
Teams (CTTs)



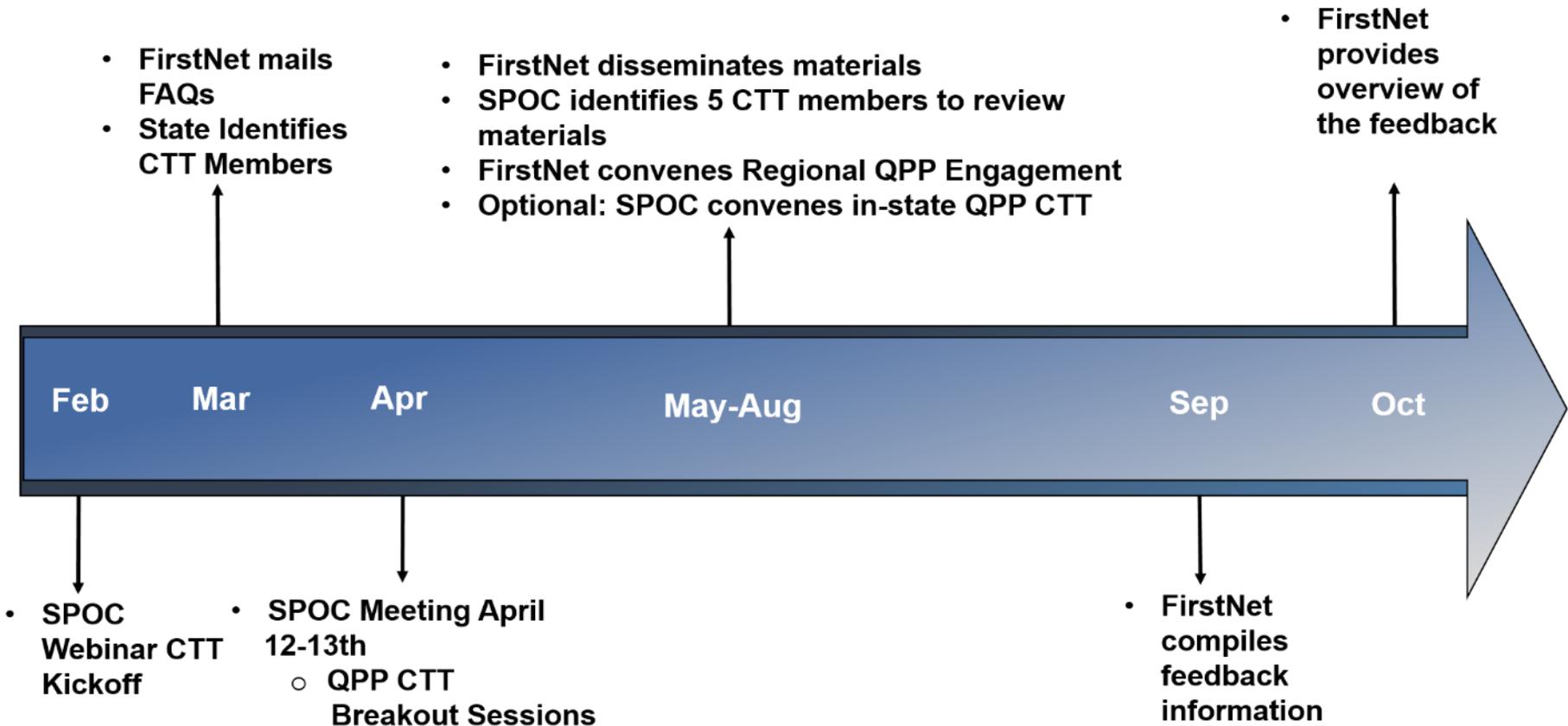
FirstNet ↔ Key Decision Makers

Executive  
Consultation  
Meeting

EXPANDED NATIONAL OUTREACH

EXPANDED FEDERAL CONSULTATION

# The First CTT: Quality of Service, Priority, and Preemption (QPP)



Statutory Requirement – “SEC. 6206. (c) (2) (A) (vii) training needs of local users”

- ✓ Are there standardized training programs (beyond the agency level) on the use of mobile data?
  - ✓ State Training Academy?
- ✓ How would new mobile data applications/device training be integrated into your programs?
- ✓ Is training limited to initial use or is refresher training required/provided?
- ✓ Is evaluation of mobile data applications included in regular exercises?

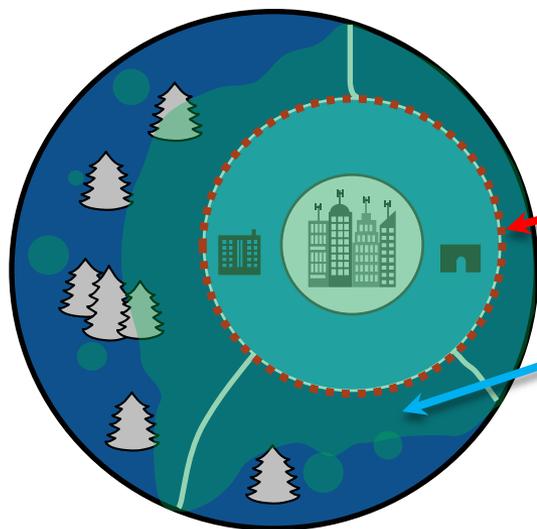
- CTTs will help inform our policies and plans as we move into adoption of FirstNet services
- Your opinions on the value proposition of QPP and how to best incorporate that value into our services is of critical importance to us
- Please share points of contact for whom we should be following up with regarding delivering training and training needs

# Rural Areas

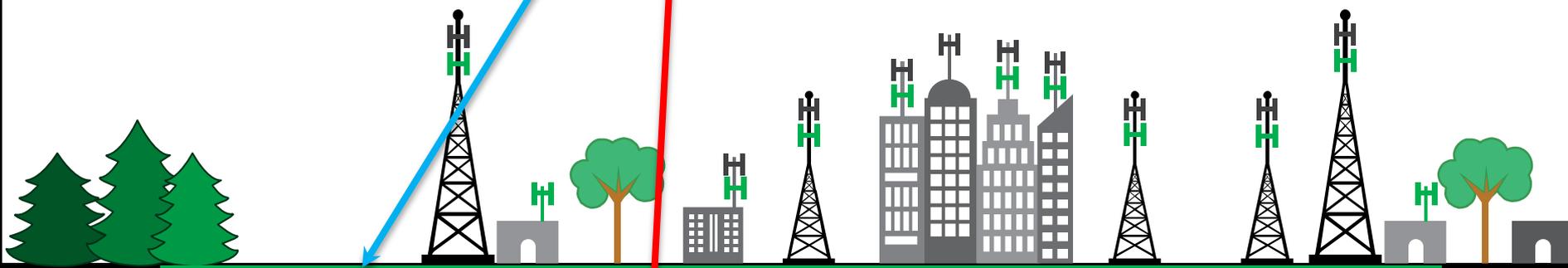


- FirstNet defines “rural” for the purposes of the Act as having the same meaning as “rural area” in Section 601(b)(3) of the Rural Electrification Act of 1936, as amended (“Rural Electrification Act”). Section 601(b)(3) of the Rural Electrification Act provides that “[t]he term ‘rural area’ means any area other than—(i) an area described in clause (i) or (ii) of Section 1991(a)(13)(A) of this title [section 343(a)(13)(A) of the Consolidated Farm and Rural Development Act]; and (ii) a city, town, or incorporated area that has a population of greater than 20,000 inhabitants.” In turn, the relevant portion of Section 343(a)(13)(A) of the Consolidated Farm and Rural Development Act explains that the “terms ‘rural’ and ‘rural area’ mean any area other than— (i) a city or town that has a population of greater than 50,000 inhabitants; and (ii) any urbanized area contiguous and adjacent to a city or town described in clause (i).”
- In summary, a rural area is:
  - A city, town or incorporated area that has a population of less than 20,000
  - Any area that is not contiguous and adjacent to a city or town with greater than 50,000 inhabitants

# Significance of Rural Definition



- Rural definition sets this boundary
- Rural definition does not determine FirstNet coverage

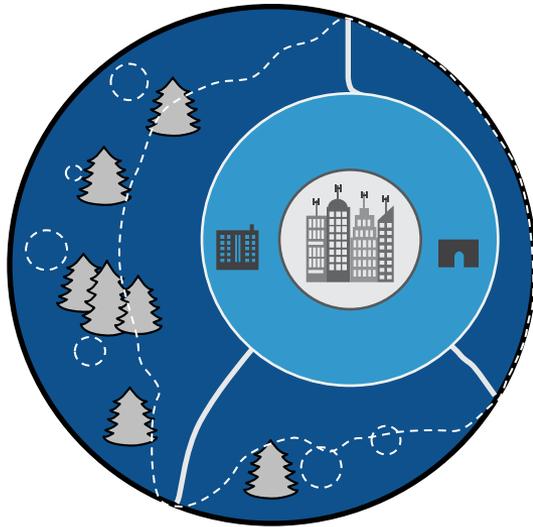


RURAL

URBAN

RURAL

# Phased Approach to Coverage



Nationwide example

FOC (Start +60 Months)
IOC 5 (Start +48 Months)
IOC 4 (Start +36 Months)
IOC 3 (Start +24 Months)
IOC 2 (Start +12 Months)

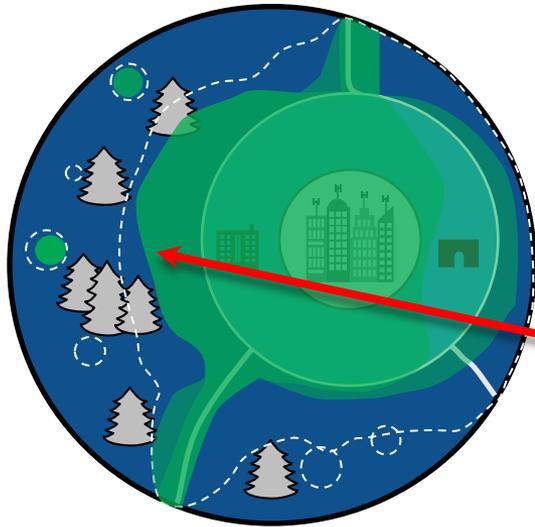


RURAL

URBAN

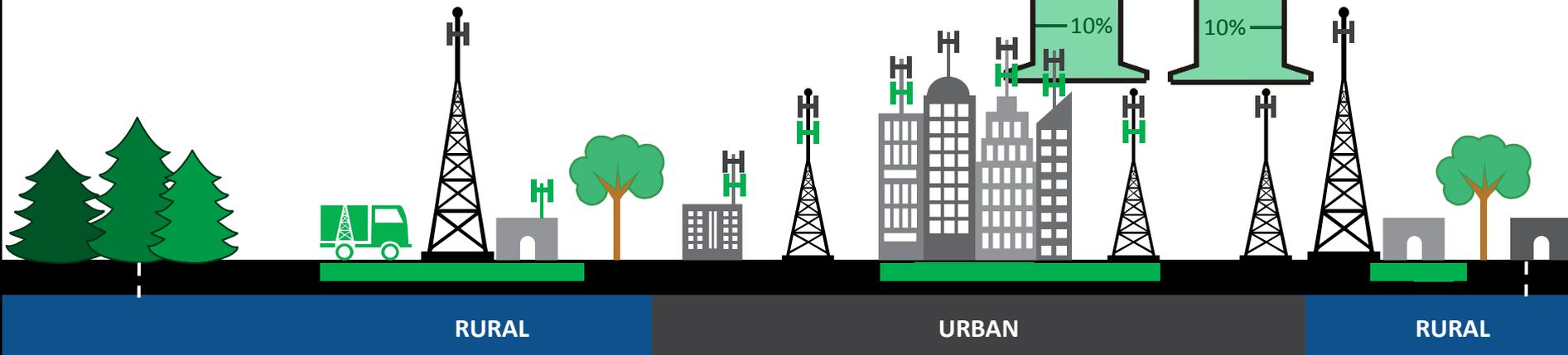
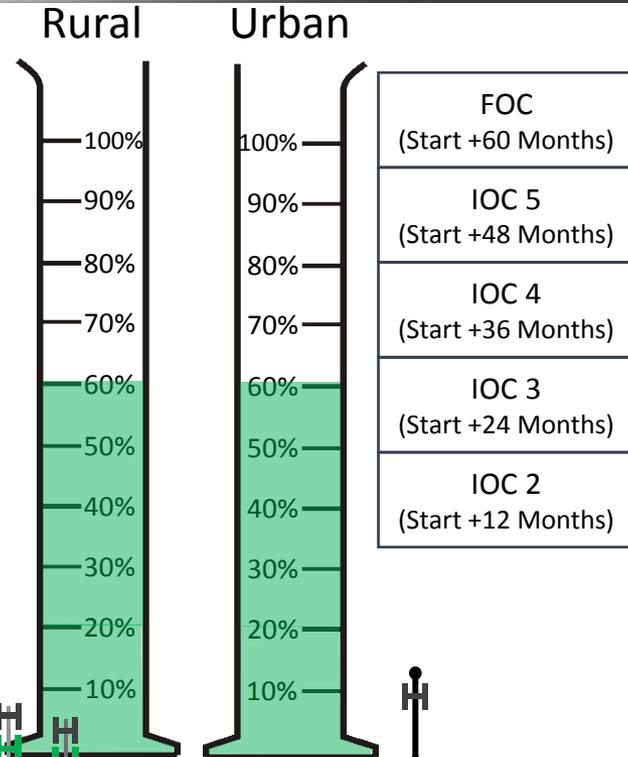
RURAL

# Phased Approach to Coverage

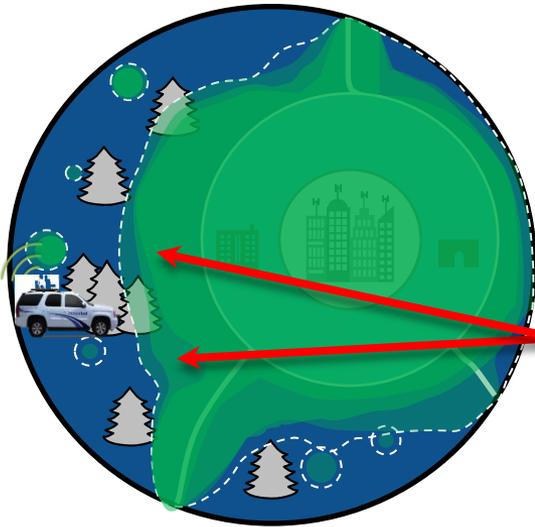


Nationwide example

- Proposed rural milestone objectives are consistent with non-rural milestones
- Rural deployment only measured in these areas



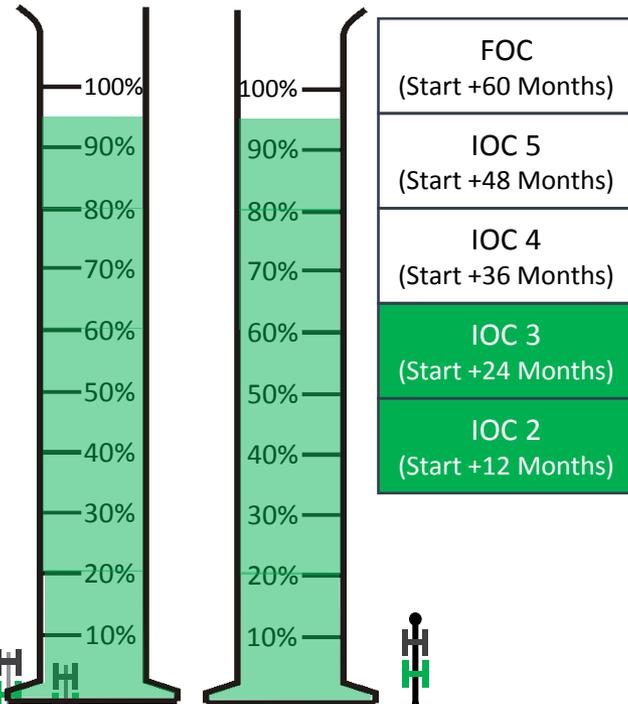
# Phased Approach to Coverage



Nationwide example

- ❑ Proposed rural milestone objectives are consistent with non-rural milestones
- ❑ Rural deployment only measured in these areas

Rural      Urban

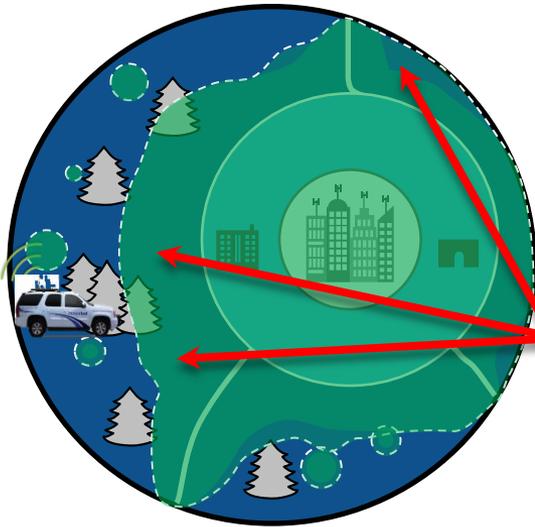


RURAL

URBAN

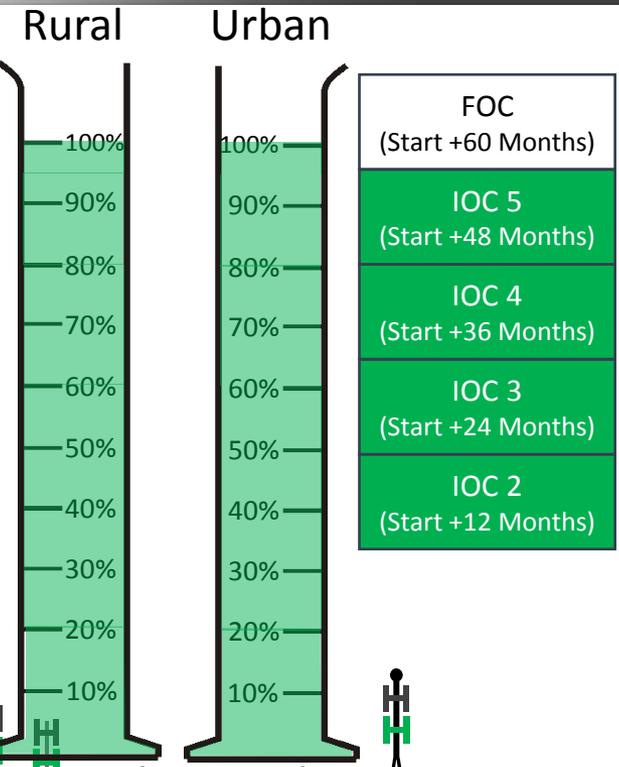
RURAL

# Phased Approach to Coverage



- ❑ Proposed rural milestone objectives are consistent with non-rural milestones
- ❑ Rural deployment only measured in these areas

Nationwide example



RURAL

URBAN

RURAL

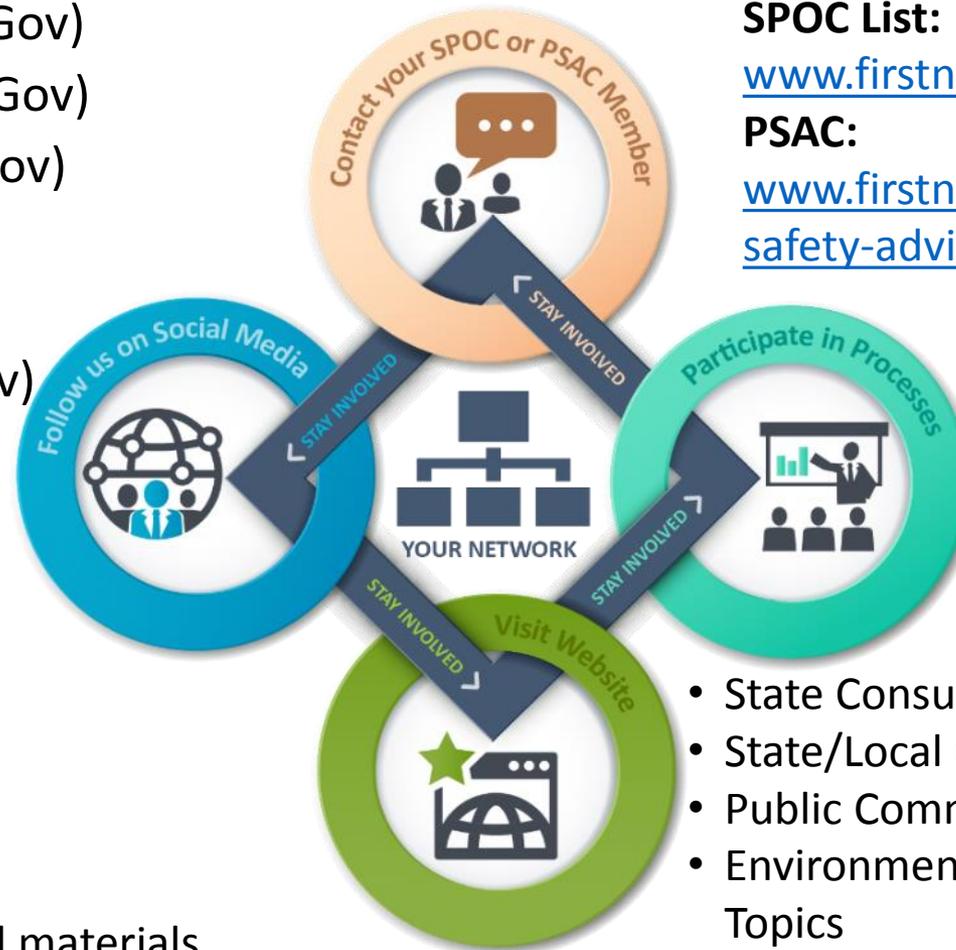
# Staying in Touch with FirstNet



-  Twitter (@FirstNetGov)
-  Google+ (+FirstNetGov)
-  YouTube (FirstNetGov)
-  Flickr (FirstNetGov)
-  LinkedIn
-  Tumblr (FirstNetGov)

[www.firstnet.gov](http://www.firstnet.gov)

- Fact Sheets
- Blogs
- Presentations
- Current Events
- Board meetings and materials



**SPOC List:**

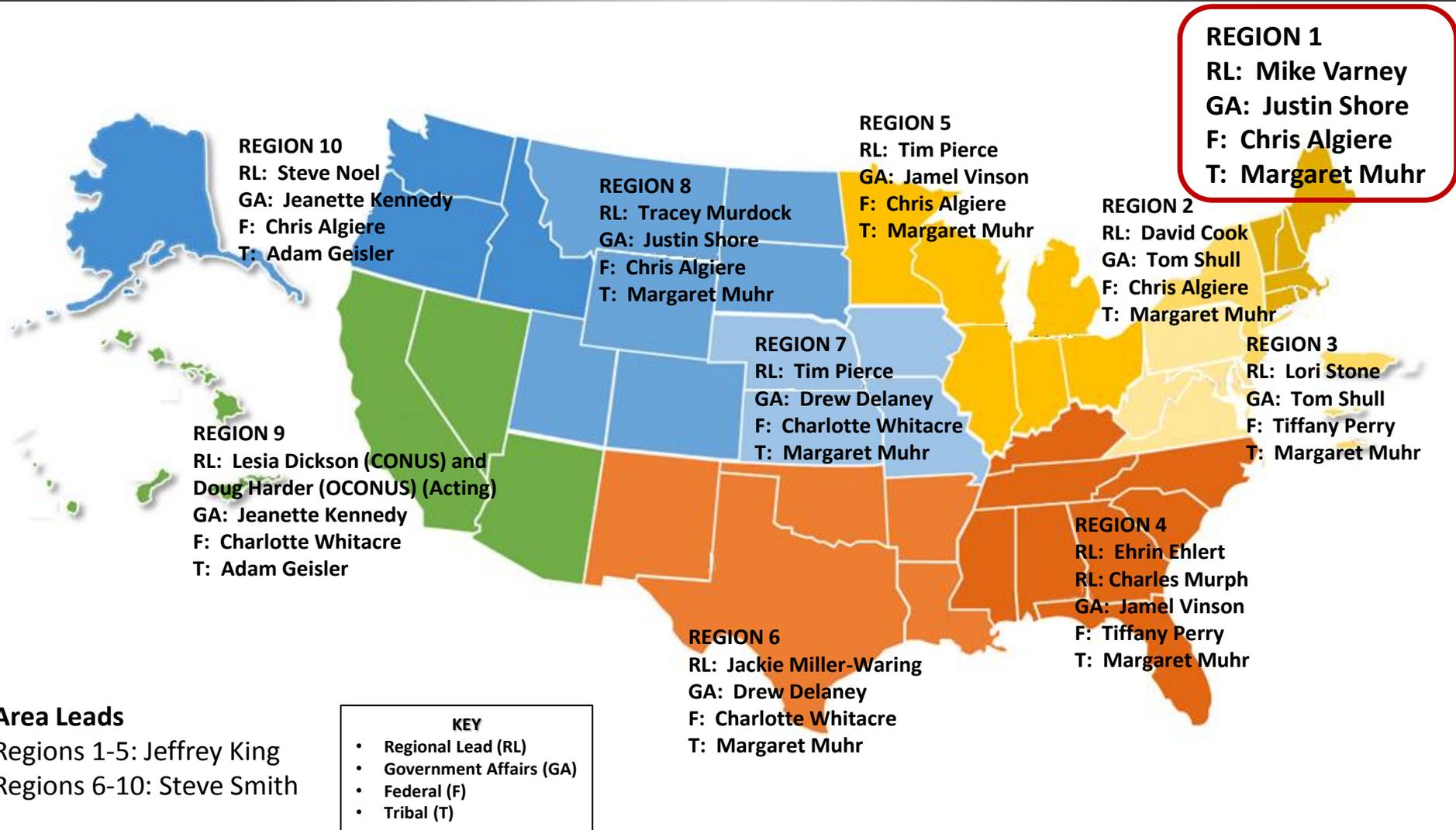
[www.firstnet.gov/consultation](http://www.firstnet.gov/consultation)

**PSAC:**

[www.firstnet.gov/about/public-safety-advisory-committee](http://www.firstnet.gov/about/public-safety-advisory-committee)

- State Consultation
- State/Local Outreach Activities
- Public Comment
- Environmental & Historic/Cultural Topics  
(PEIScomments@firstnet.gov)

# FirstNet Support Team





**FirstNet**®



**Questions?**