



FirstNet®



Minnesota Governance Body Meeting

Working together to bring broadband to Public Safety Entities

**May 26, 2016
Shoreview, Minnesota**

Agenda & Goals



Topic	Goal
FirstNet Overview	<i>FirstNet will Listen and Learn</i>
Minnesota Consultation to Date	<i>Recap and consider continued data collection (optional)</i>
FirstNet State Plan	<i>Identify potential issues and set expectations for Minnesota review process</i>
The Governor's Decision	<i>Discuss process, timeline, and risks</i>
Preparing for Adoption	<i>Overview of Consultation Task Teams</i>
Questions	<i>Answer questions and begin preparing for Executive Consultation</i>

By the End of the Meeting, We Will Ask You to...



- **Carefully consider the responsibilities, risks and timelines associated with the Governor's decision**
- **Consider and establish a clear decision-making process to meet 90 day review period**
- **Consider how to educate individuals/bodies who will inform the Governor**
 - Formal Executive Consultation – Fall 2016
 - Ad Hoc executive briefings (as requested)

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 demanded 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, smart phones 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

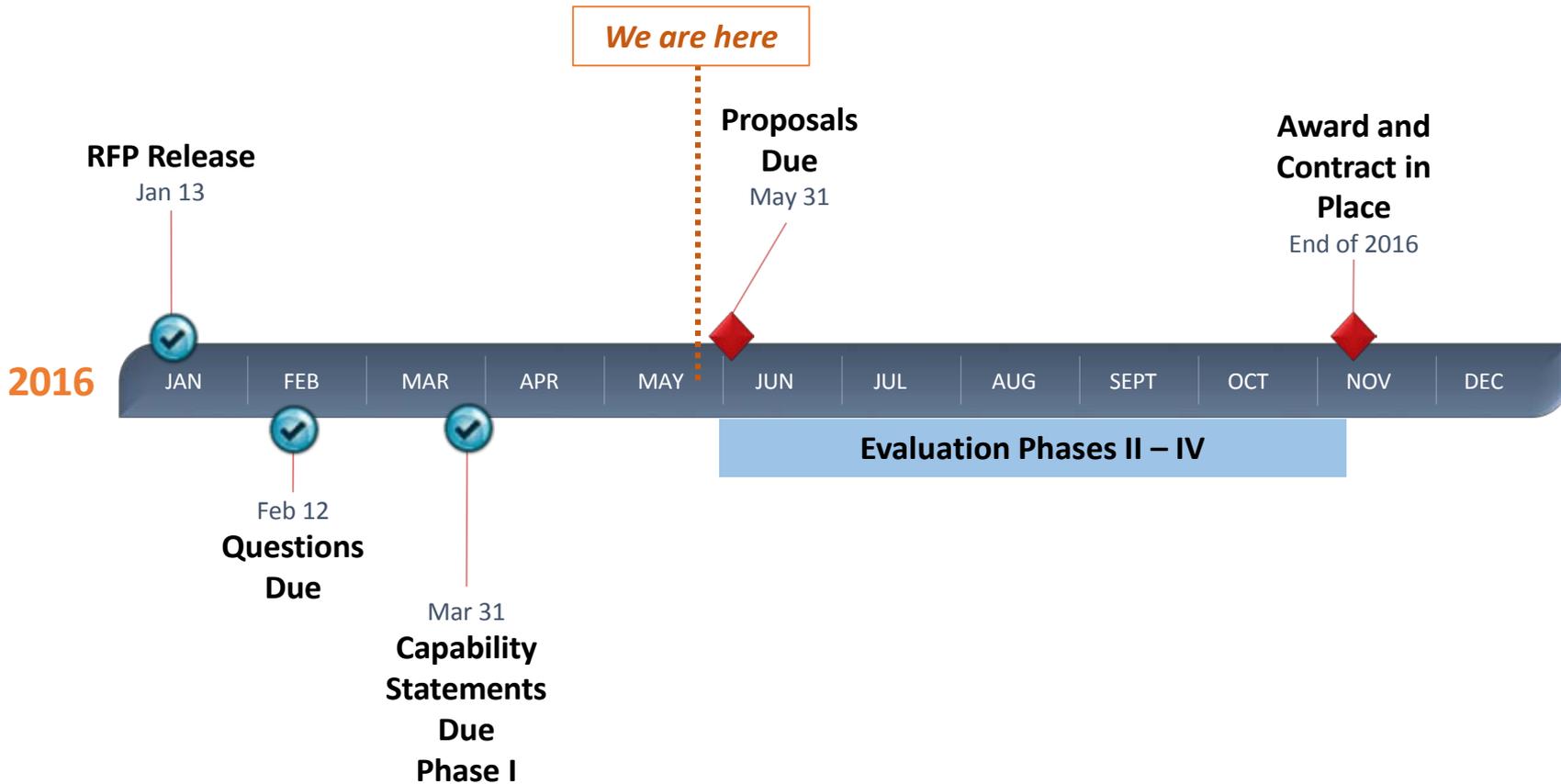


Customer Care and Marketing



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

Evaluation Phase Has Kicked Off





Recap of Minnesota Consultation to Date



1. Minnesota Initial Consultation Meeting

- September 24, 2014, in St. Paul, Minnesota
- > 49 attendees

2. Additional Minnesota Specific Meetings/Communications

- Data Collection Call (October 2015)
- SPOC Kickoff Meeting (February 2016)
- Updates on CTT (March 2016)

Minnesota Submission Summary



1,300+

Agency Surveys



11,600+ Nationwide



23,600+

State Public Safety Personnel Represented

1.6 Million Nationwide

150 MB

Submitted

15.1 GB Nationwide

3,120

CAD Files Used to Modify Coverage Objective

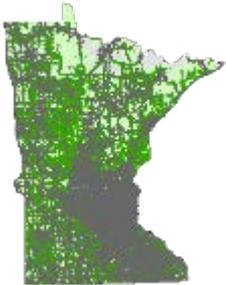
~400

Sheriffs, Fire and Police Chiefs, EMTs, Officers, Fire Fighters, and Tribal First Responders took part in coverage reviews

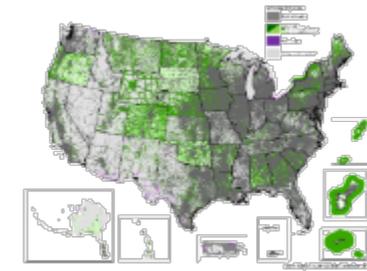
How Was State Data Used in the RFP?



Coverage Objectives



Nationwide Objective



User Survey Data

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

21. Objective Estimate the total number of eligible Public Safety facilities, associated personnel and devices within the States/Territories. Use surveys, interviews and samples to help estimate the totals.

Objective Example	Surveyed Data (Sampled)			Estimated Totals		
	Personnel	Devices	Locations	Personnel	Devices	Locations
Public Safety Personnel (Police, Fire, EMS, etc.)	100	100,000	10,000	1,000	1,000,000	100,000
Emergency Medical Services (EMS)	500	500,000	50,000	5,000	5,000,000	500,000
Public Safety Vehicles (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Buildings (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Communications Centers (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Training Centers (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Support Centers (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Administration (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Maintenance (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Security (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
Public Safety Other (Police, Fire, EMS)	100	100,000	10,000	1,000	1,000,000	100,000
TOTAL	1,000	1,000,000	100,000	10,000	10,000,000	1,000,000



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.

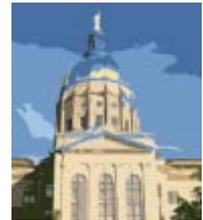
State Plan Portal Analogy



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**



*Jan
2016*

*April
2016*

As Scheduled

*Nov
2016*



**State Plans
Prep**

**FirstNet
Contract
Award**



**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."

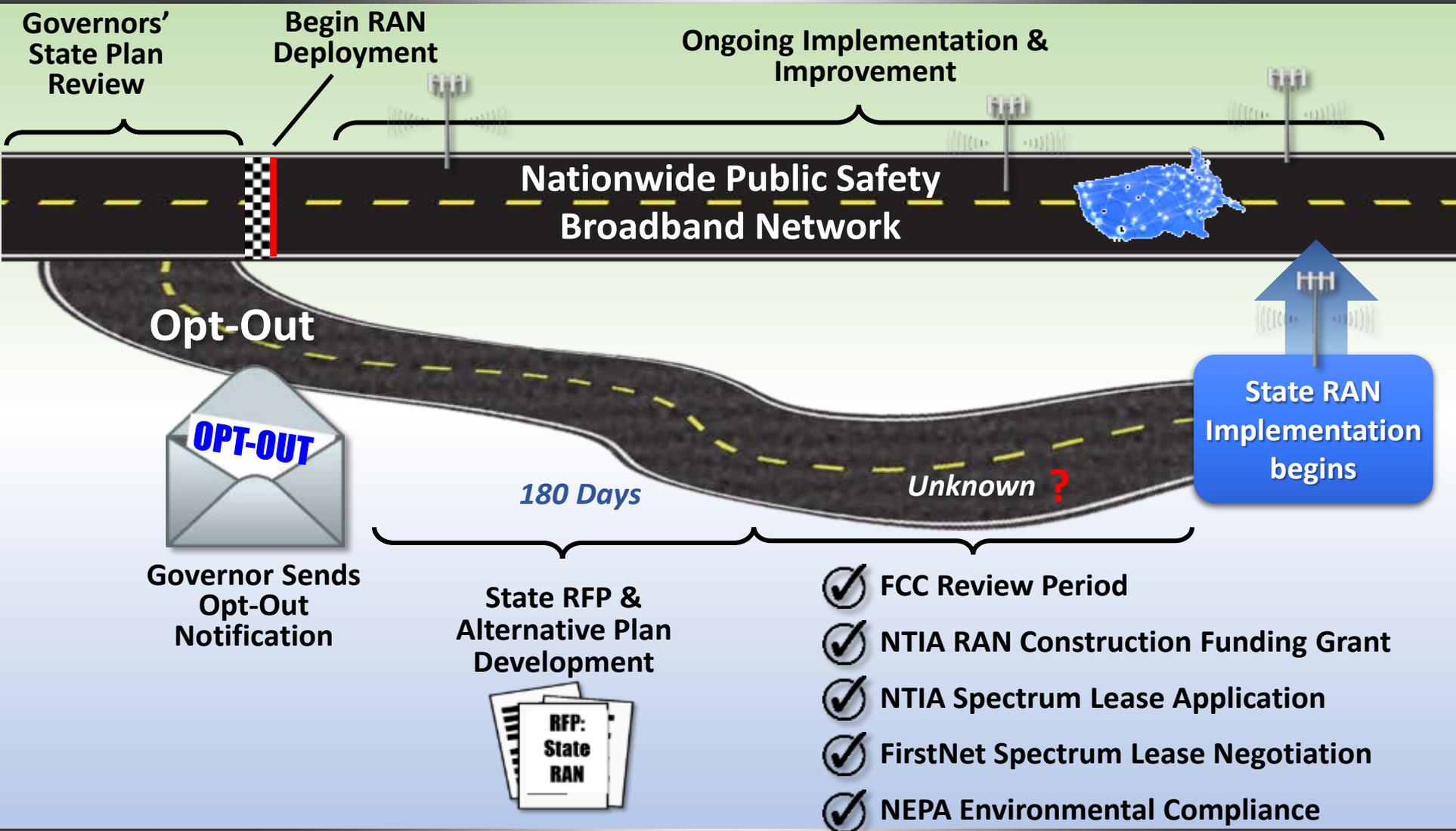


Responsibilities and Decisions



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

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 associated with the Governor's decision**
- **Consider and establish a clear decision-making process to meet 90 day review period**
- **Consider how to 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."*



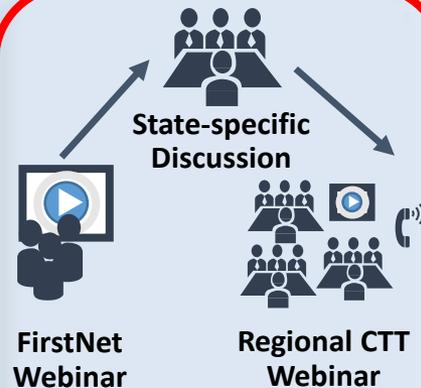
2016 Consultation Elements



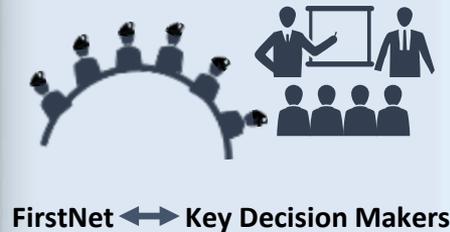
SPOC
Engagement
Meeting



Governance
Body
Meeting



Consultation
Task
Teams (CTTs)

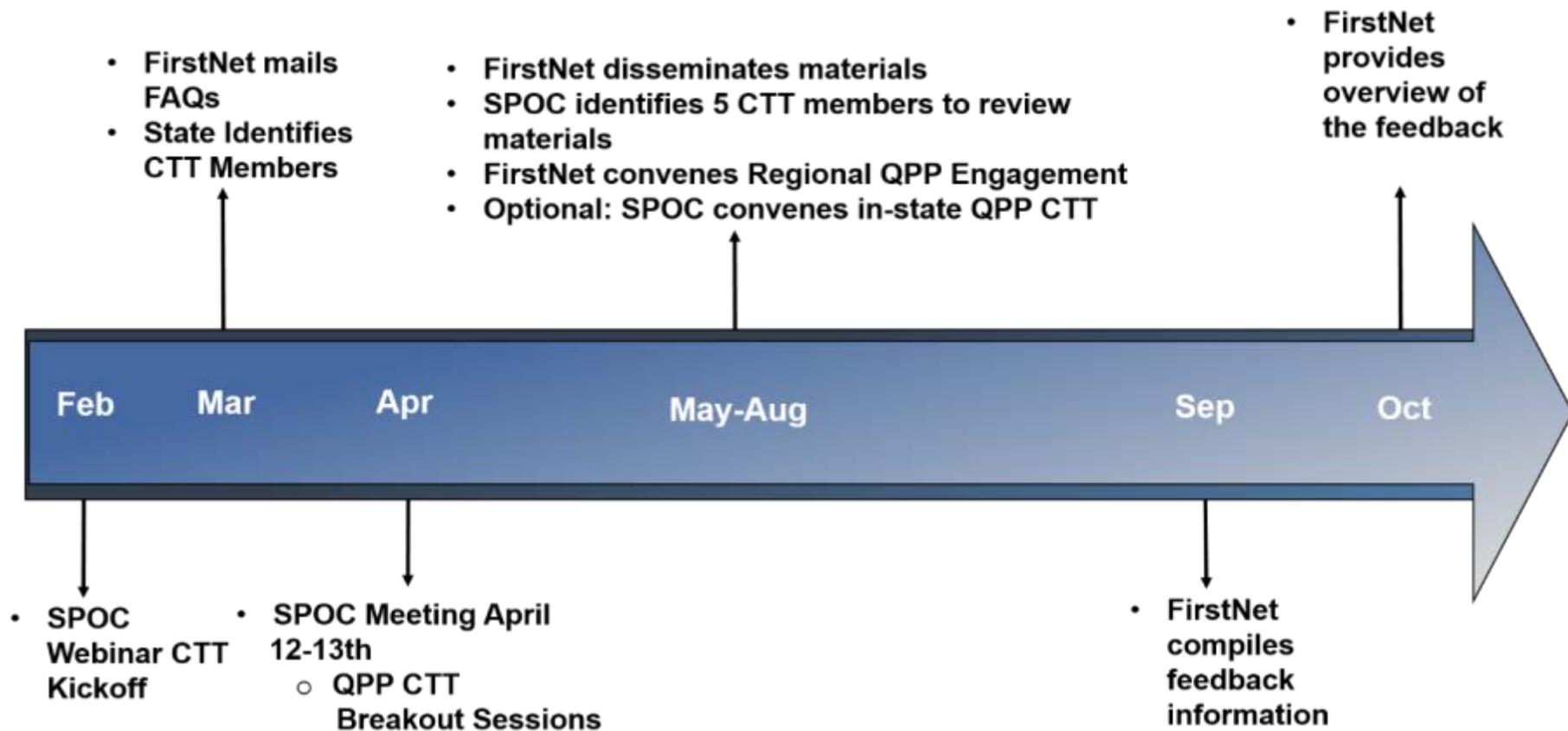


Executive
Consultation
Meeting

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”

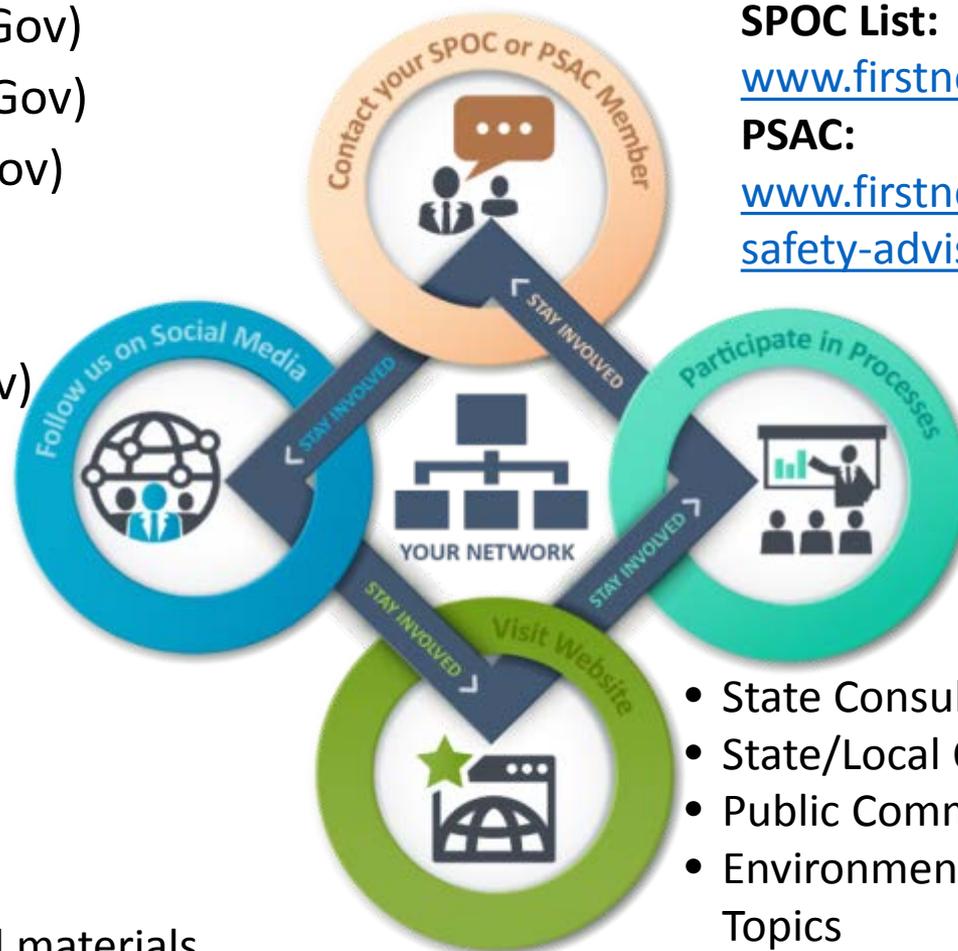
- ✓ Is there standardized training programs (beyond the agency level) on the use of mobile data?
 - ✓ State Training Academy?
- ✓ How would new mobile data applications/device training be integrated into your programs?
- ✓ Is training limited to initial use or is refresher training required/provided?
- ✓ 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 who we should be following up with regarding delivering training and training needs

Staying in Touch with FirstNet



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



SPOC List:

www.firstnet.gov/consultation

PSAC:

www.firstnet.gov/about/public-safety-advisory-committee

www.firstnet.gov

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

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

FirstNet Support Team



Area Leads

Regions 1-5: Jeffrey King
Regions 6-10: Steve Smith

- KEY**
- Regional Lead (RL)
 - Government Affairs (GA)
 - Federal (F)
 - Tribal (T)



FirstNet®



Questions?