



FirstNet[®]



North Dakota Governance Body Meeting

Working together to bring broadband to Public Safety Entities

**July 25, 2016
Bismarck, North Dakota**

Agenda



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

Today's Objectives



- **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**

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

Compelling Value to Public Safety



“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.)

An Urgent Need



“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**



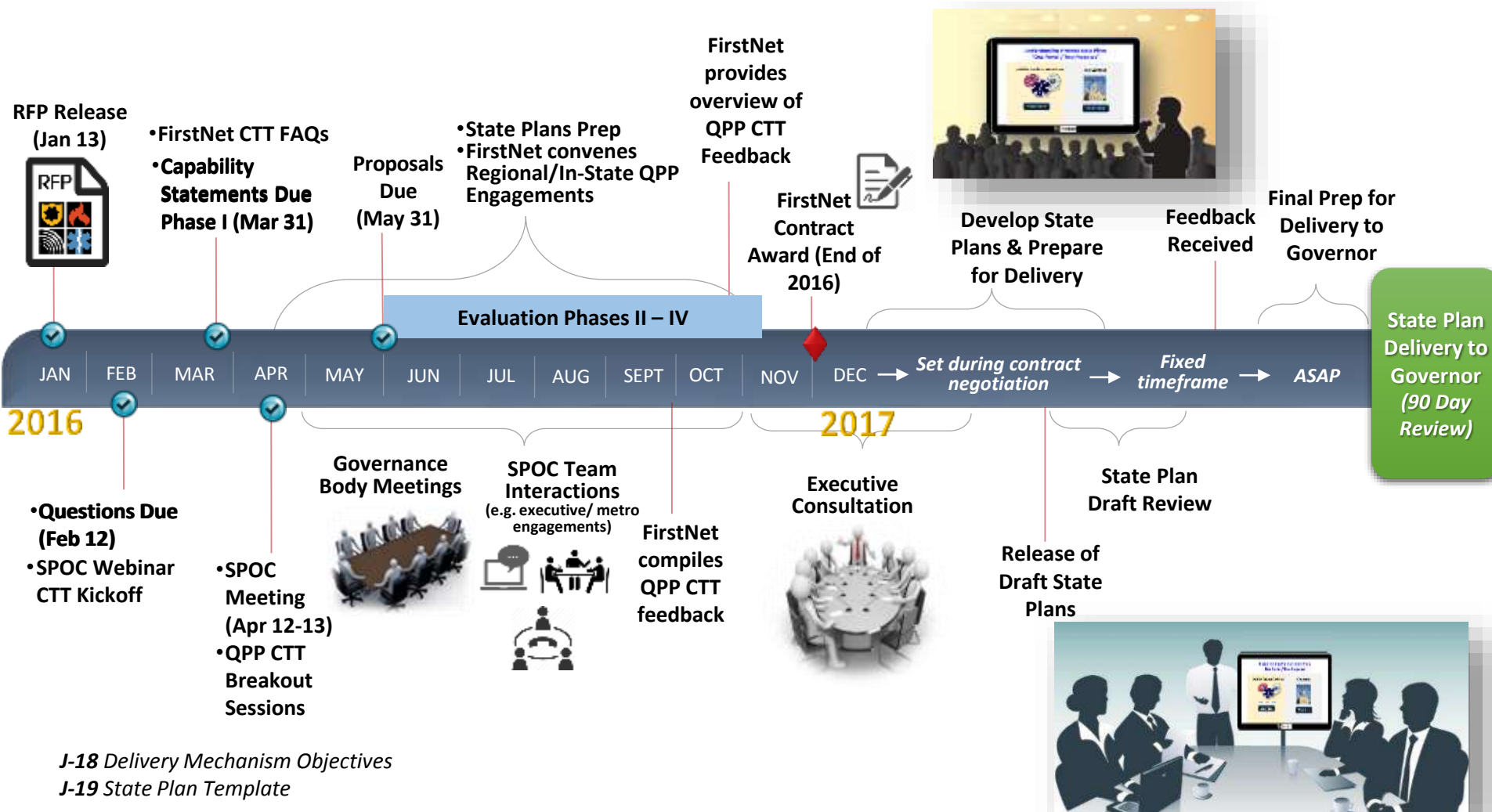
**Customer
Care and
Marketing**



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

FirstNet Acquisition Process

FirstNet Timeline



Recap of North Dakota Consultation to Date



1. North Dakota Initial Consultation Meeting

- July 9, 2015, in Bismarck, North Dakota
- > 40 attendees

2. Additional North Dakota Specific Meetings/Communications

- Data Collection Call (December 2015)
- SPOC Kickoff Meeting (March 2016)
- North Dakota Police Chiefs and Sheriffs Conference (May 2016)
- North Dakota 911 Association Quarterly Meeting (June 2016)

Data Collection Categories



Coverage Objectives



- Coverage
- Phased Deployment
- Applications
- Data Usage

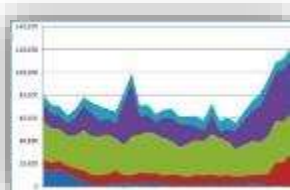
Users and Operations



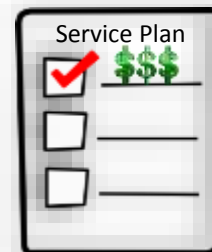
- Public Safety Entity Info
- Devices
- Operational Areas

North Dakota

- Current Service
- Procurement Vehicles
- Service Plans



Capacity



Current Service



Coverage Objectives



Coverage Objectives



FirstNet Baseline



State Input

Unique State/Tribal Datasets
Commercial/LMR Coverage



Federal Input



On Demand Temporary

North Dakota modified its coverage objective based on the following:

- Critical areas for daily Public Safety operations
- Stakeholder-identified important areas with no commercial wireless data coverage

North Dakota Submission Summary



408



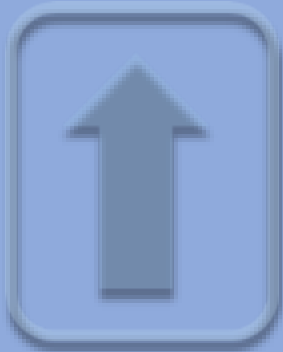
Agency Surveys

11,600+ Nationwide



21,500+

Estimated Public Safety Personnel



29.2 MB

Submitted

15.1 GB Nationwide



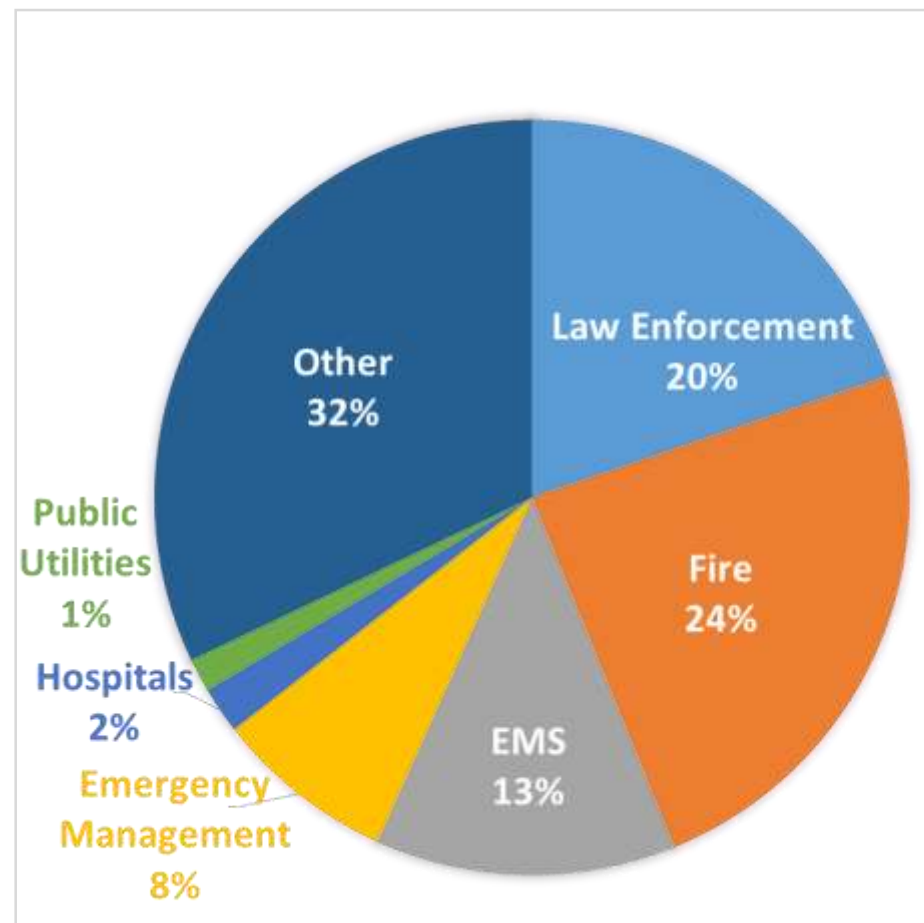
55

Files Submitted to Inform Coverage Objectives

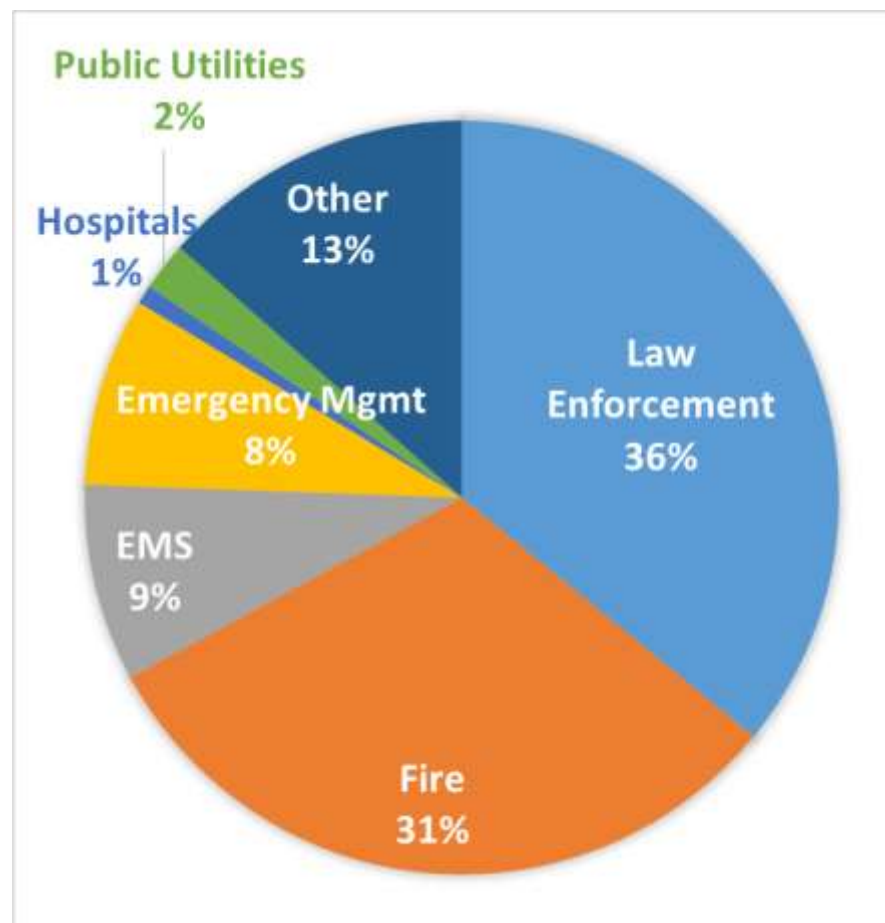
Who Responded to the Survey?



North Dakota



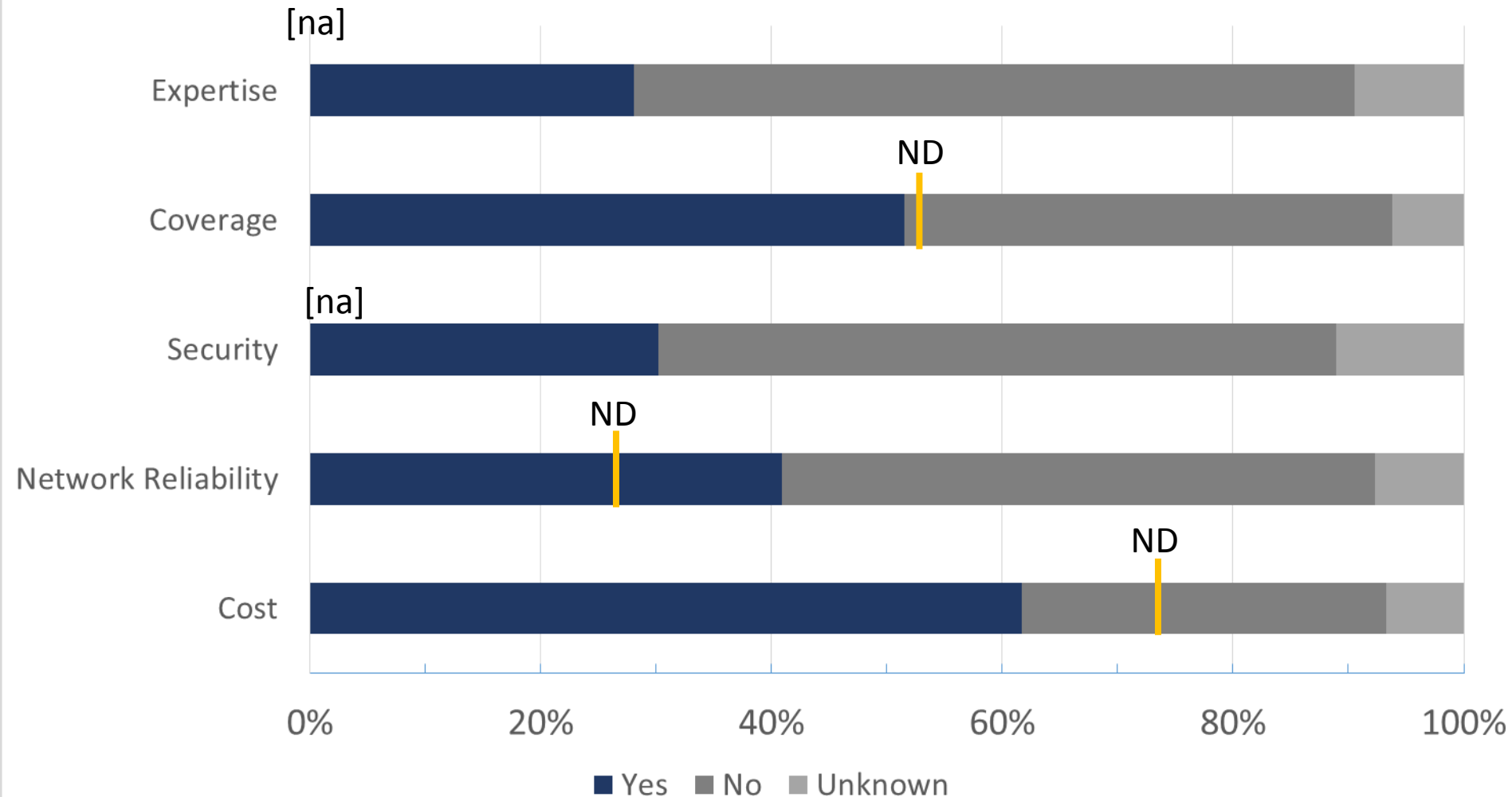
Nationwide



Barriers to Adopting Wireless Data per Survey Responses



BARRIERS TO IMPLEMENTING WIRELESS DATA



How Much Does Public Safety Pay Today?



50%

**Of Nationwide
Responding Public
Safety Agencies Paid**



<\$50

**For Voice and Data
Services Per Device
Per Month**

75%

**Of Nationwide
Responding Public
Safety Agencies Paid**



<\$65

**For Voice and Data
Services Per Device
Per Month**

How Was State Data Used in the RFP?



Coverage Objectives



Nationwide Objective



User Survey Data

A screenshot of a table containing user survey data. The table has multiple columns, including "Device Type", "Device ID", "Signal Strength", and "Latency". The data is organized into rows, with some rows highlighted in green and others in blue.

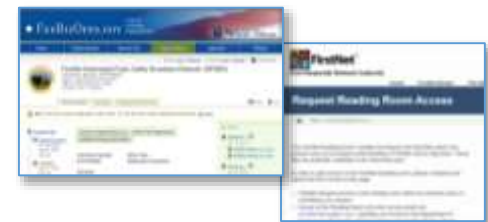
User, device and tonnage estimates informed capacity evaluation and total addressable market



Submission Files



RFP Reading Room



Ongoing Data Collection



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.”***



State Plan Influencers



What the Law
requires...

What the States
are looking for...






What the RFP
will produce...

What the FCC &
NTIA need ...

Responsibilities and Decisions



	Decision	Responsibility	
 BAND-14 CORE	N/A	✓ FirstNet <input type="checkbox"/> QPP <input type="checkbox"/> Customer Care <input type="checkbox"/> Applications	
 RAN DEPLOYMENT	Governor Decides: <input type="checkbox"/> FirstNet Plan, or <input type="checkbox"/> Opt-Out	<input type="checkbox"/> FirstNet, or <input type="checkbox"/> Governor	
 WIRELESS SERVICES, PRODUCTS & APPLICATIONS	Public Safety Entities Decide: <input type="checkbox"/> Adopt, or <input type="checkbox"/> Don't Adopt	Public Safety Entities ✓ Enterprise Users ✓ Individual Users	

State Plan Decision Analogy



I would like to rent a room.

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



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.

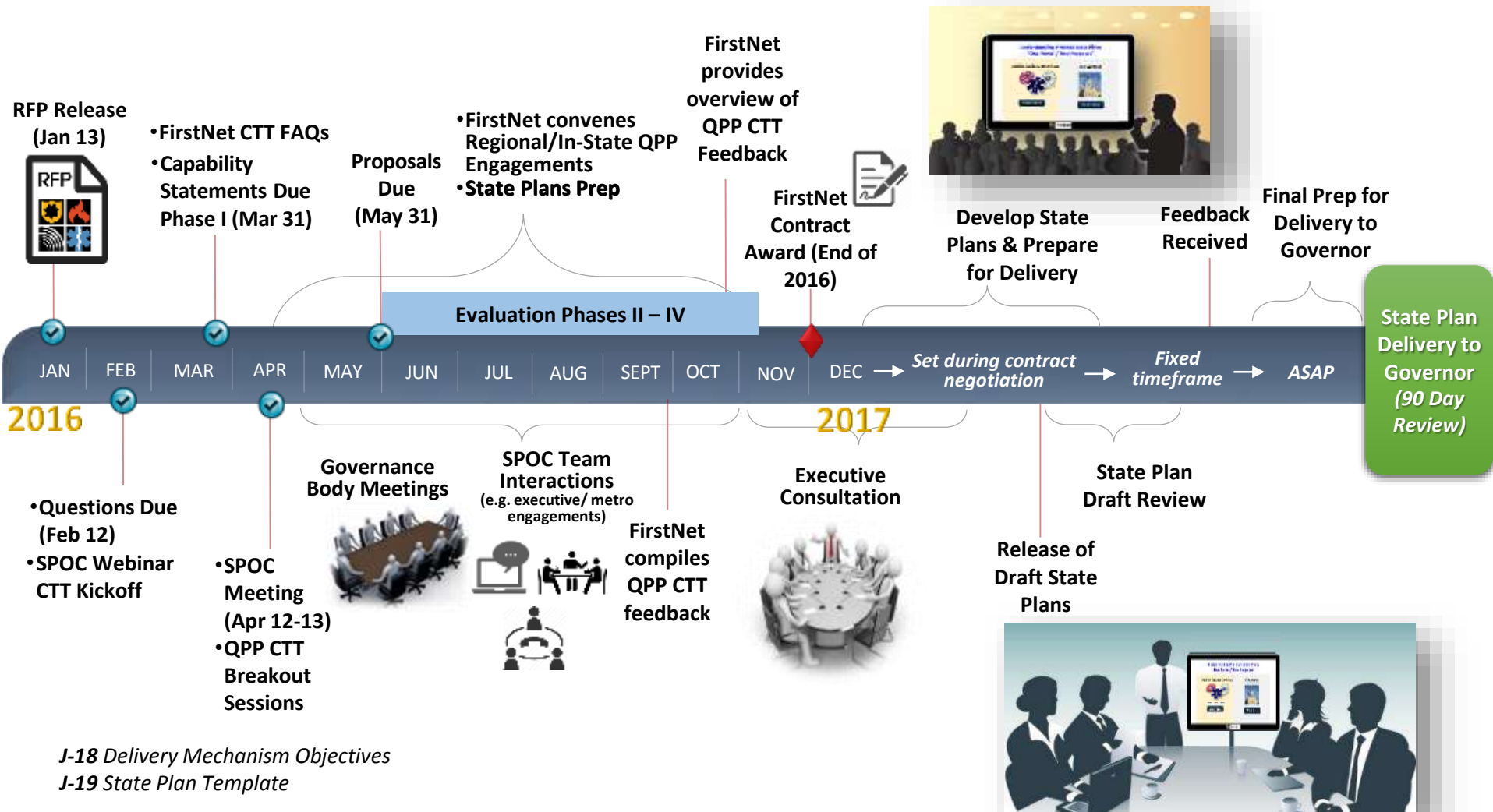
TIMEFRAME/COST

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.

FirstNet State Plans Timeline





The Governor's Decision

“SEC. 6302. STATE AND LOCAL IMPLEMENTATION.

(e) STATE NETWORK.—

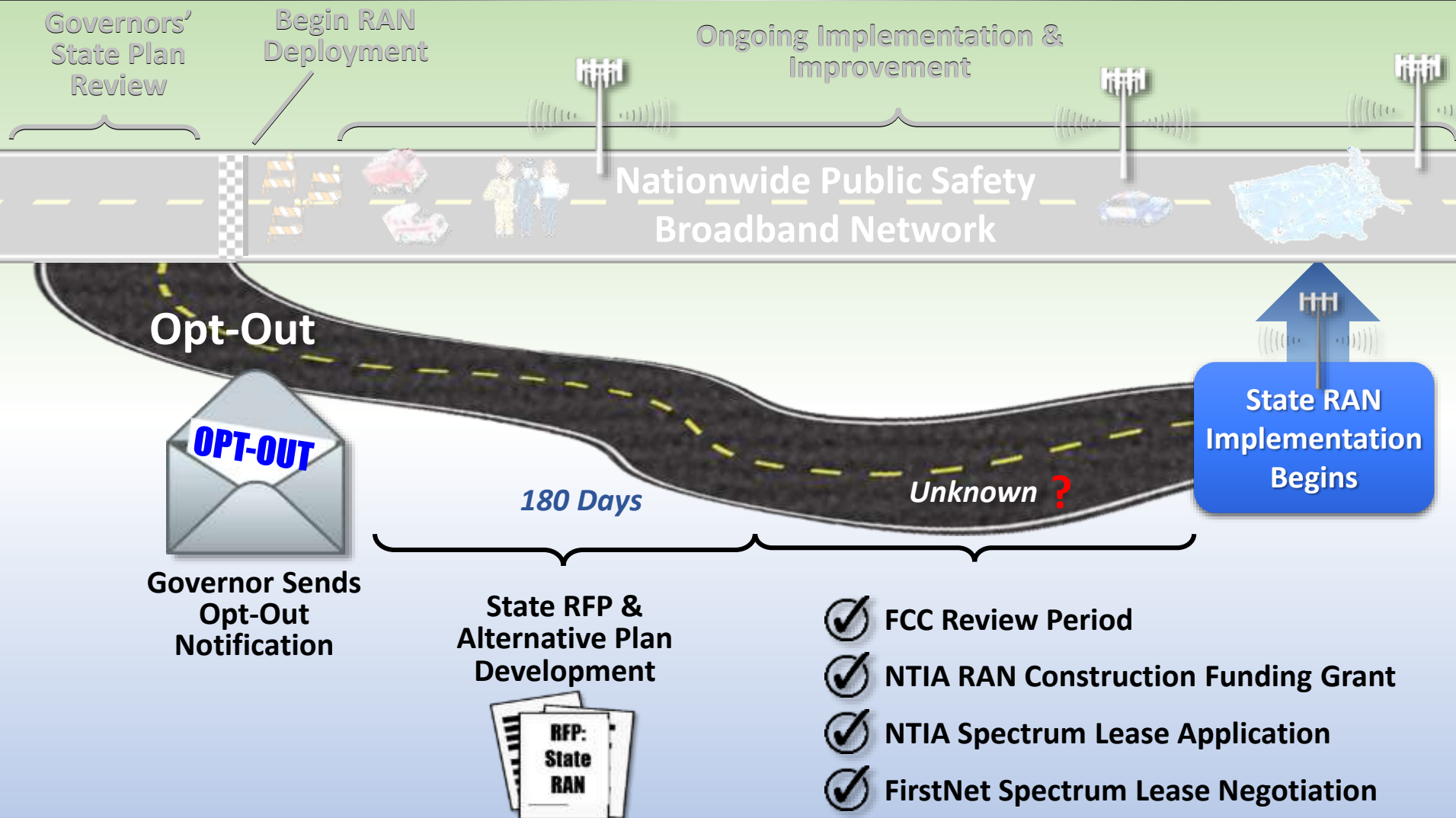
(2) STATE DECISION.—Not later than 90 days after the date on which the Governor of a State receives [a State Plan], the Governor shall choose whether to—

(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.”



Governor's Decision: Timeline



Governor Opt-Out Considerations



Who will be impacted by this decision and have they been consulted?

What are the implications of delay for public safety in the State?

Are we prepared to maintain and upgrade the Network for 25 years?

What are the initial budget implications if we opt out?

What is our technical capacity to handle the network requirements?

Will our State user fees offset the planned and unplanned RAN costs?





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.”***



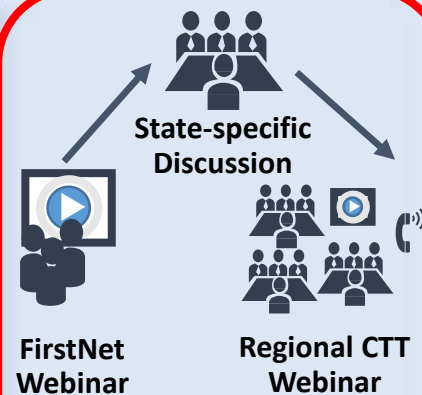
2016 Consultation Elements



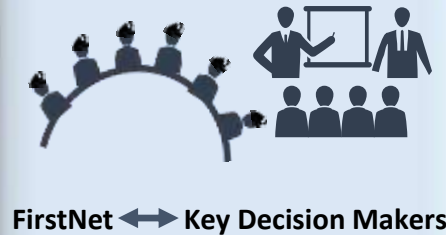
SPOC
Engagement
Meeting



Governance
Body
Meeting



Consultation
Task
Teams (CTTs)



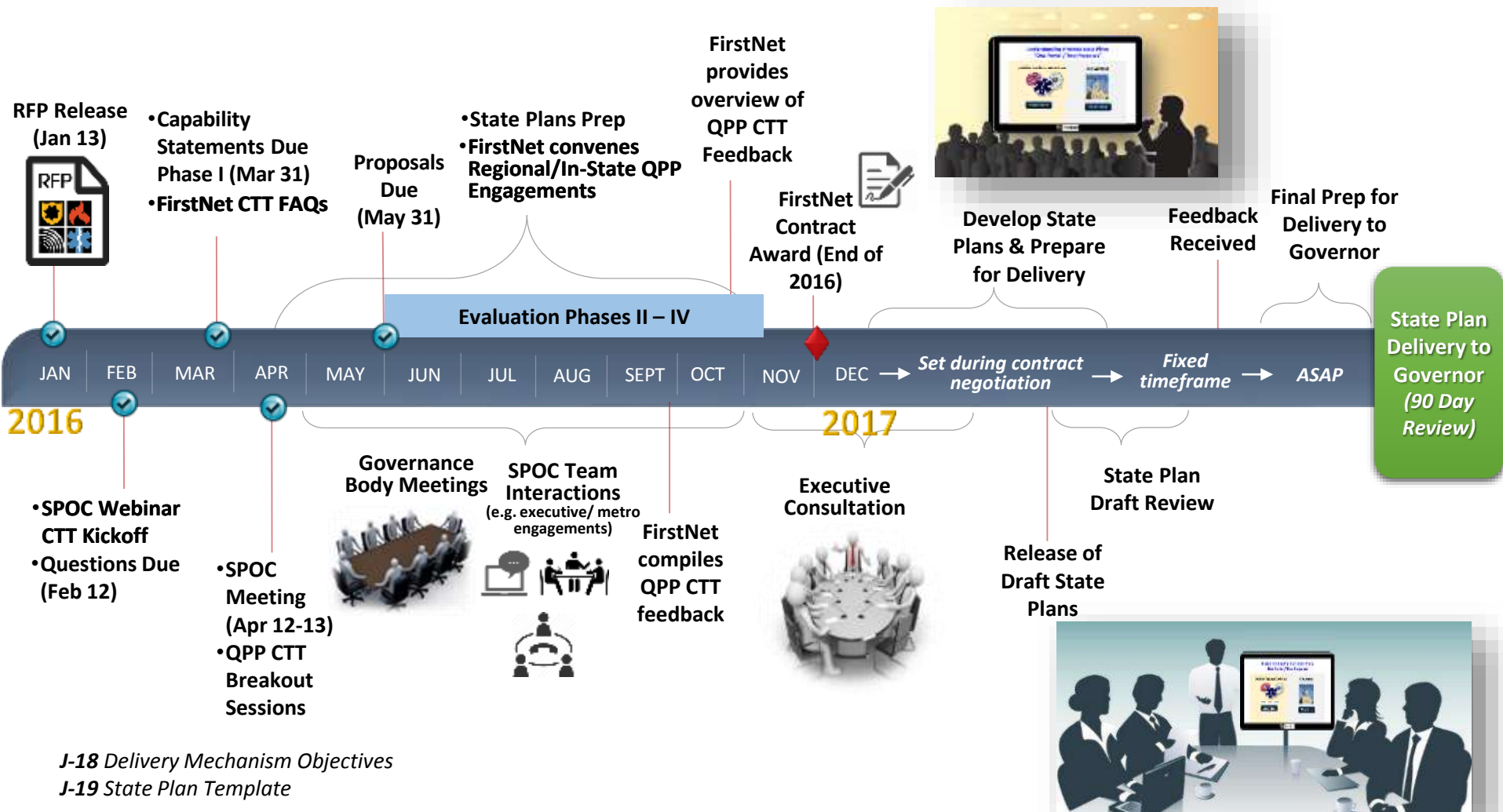
Executive
Consultation
Meeting

EXPANDED NATIONAL OUTREACH

EXPANDED FEDERAL CONSULTATION

- 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
- Your shared points of contact that are knowledgeable on delivering training and your specific training needs will be beneficial

FirstNet CTT Timeline



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?

We Need Your Input

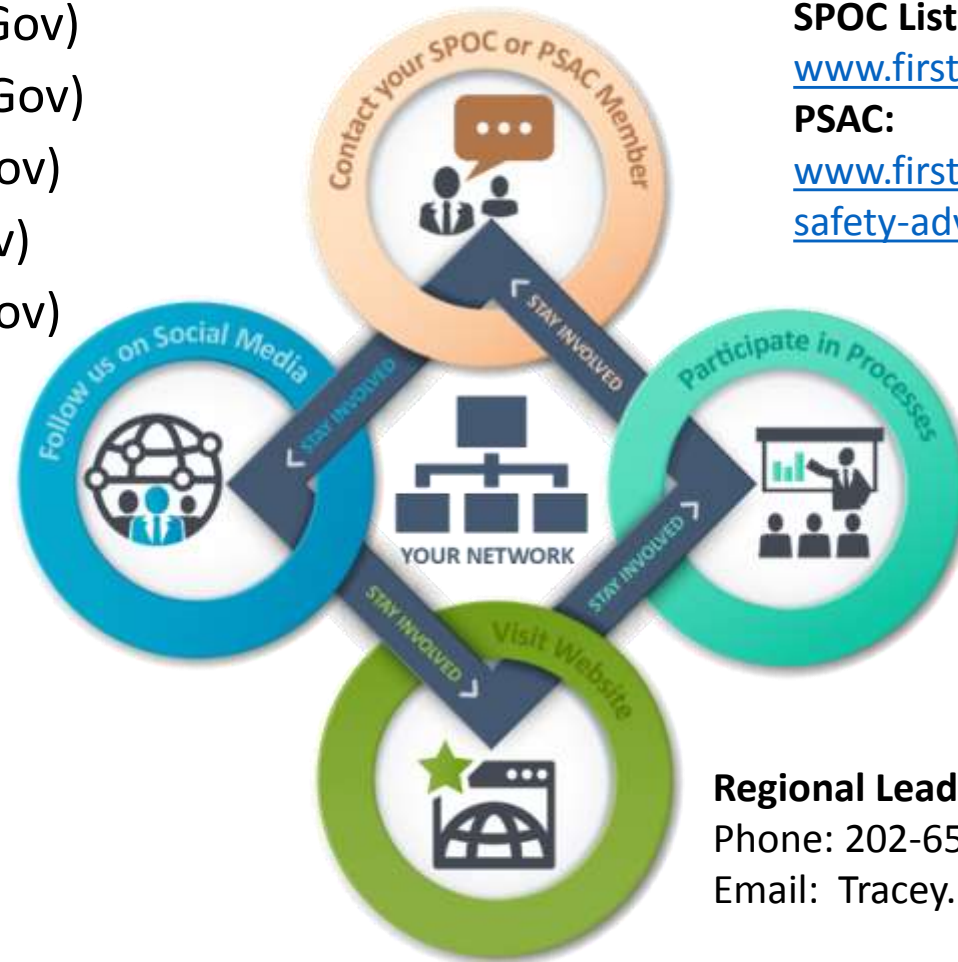


- **Carefully consider the responsibilities, risks and timelines associated with the Governor's decision**
- **Consider and establish a clear decision-making process to meet 90-day review period**
- **Consider how to educate individuals/bodies who will inform the Governor**
 - Formal Executive Consultation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

Staying in Touch with FirstNet



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

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Questions?