



FirstNet™

Single Point Of Contact (SPOC) Quarterly Briefing



Bill D'Agostino, Jr.

FirstNet, General Manager

TJ Kennedy

FirstNet, Deputy General Manager

January 15, 2014

Agenda

- Welcome and Introductions Kristi
- FirstNet Updates Bill
- Network Planning Bill
- State Outreach and Consultation TJ
- Q&A and Open Discussion Bill and TJ
- Wrap-up Kristi

FirstNet Updates



SINGLE FOCUS

The First Responder Network Authority shall hold the single public safety wireless license granted to

ensure the building, deployment, and operation of the nationwide public safety broadband network

FIRSTNET PROGRESS UPDATE

Key 2013 Milestones



Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
General Manager Hired	6 Regional Consultation Workshops for States and Territories Started (Completed in June 2013)	LA-RICS Spectrum Lease Agreement	10 Technical RFIs Released	Deputy GM and Government Affairs Director Hired	New Mexico Spectrum Lease Agreement	FirstNet Board Approves FY 2014 Budget and Operating Plan; Established Committee Structure	Established Northern VA as Corporate HQ & the Boulder, CO Area as FirstNet's Technical, Engineering and Network Design HQ	Adams County and NJ Spectrum Lease Agreements; Harris County Negotiations Extended

2014 OPERATING PLAN

**Fulfill Our
Public Safety
Mandate**

**Be Judicious
with Taxpayer
Funds**

**Build the
FirstNet
Business
Foundation**

2014 INITIATIVES AND PRIORITIES



**Network
Partners**



Mandates



**BTOP
Early Movers**



**Mobile
Network
Concepts**



**Wireless
Devices**



FirstNet™

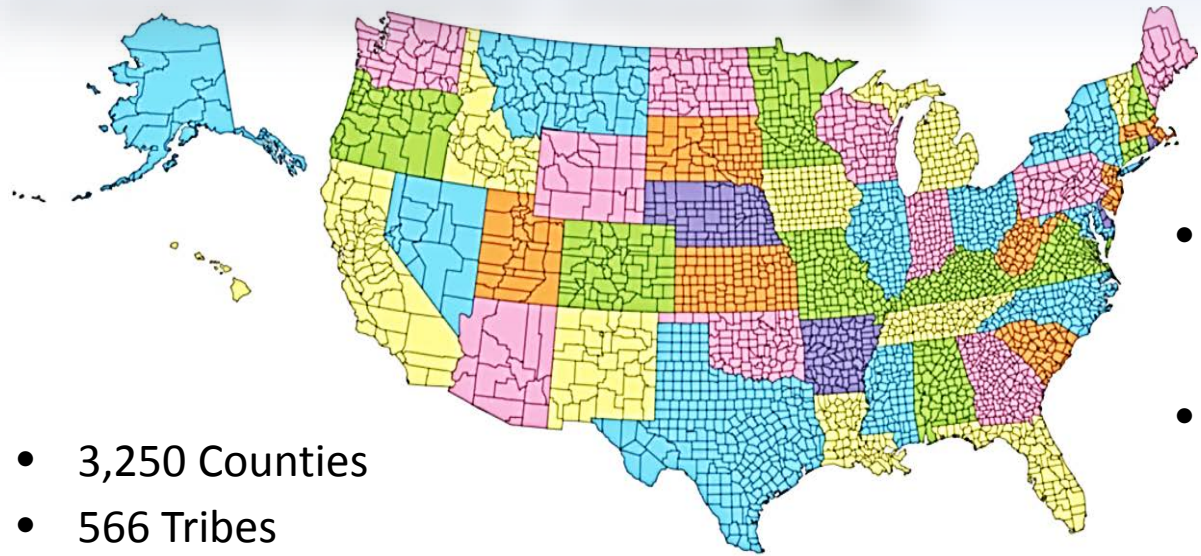
Organization Foundation

QUESTIONS ?

Network Planning Updates



CHALLENGES: Coverage



- 3,250 Counties
- 566 Tribes
- Rural, Wilderness, Island Coverage
- 60,000 Public Safety Agencies
- 3.8 Million Square Miles

- Provide coverage to public safety in every state and territory
- The network must be designed to public safety-grade standards
- FirstNet must build and operate a core network



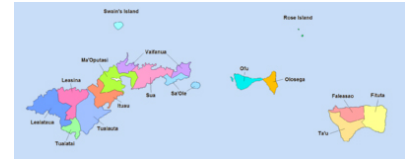
DC



Puerto Rico



Virgin Islands



American Samoa



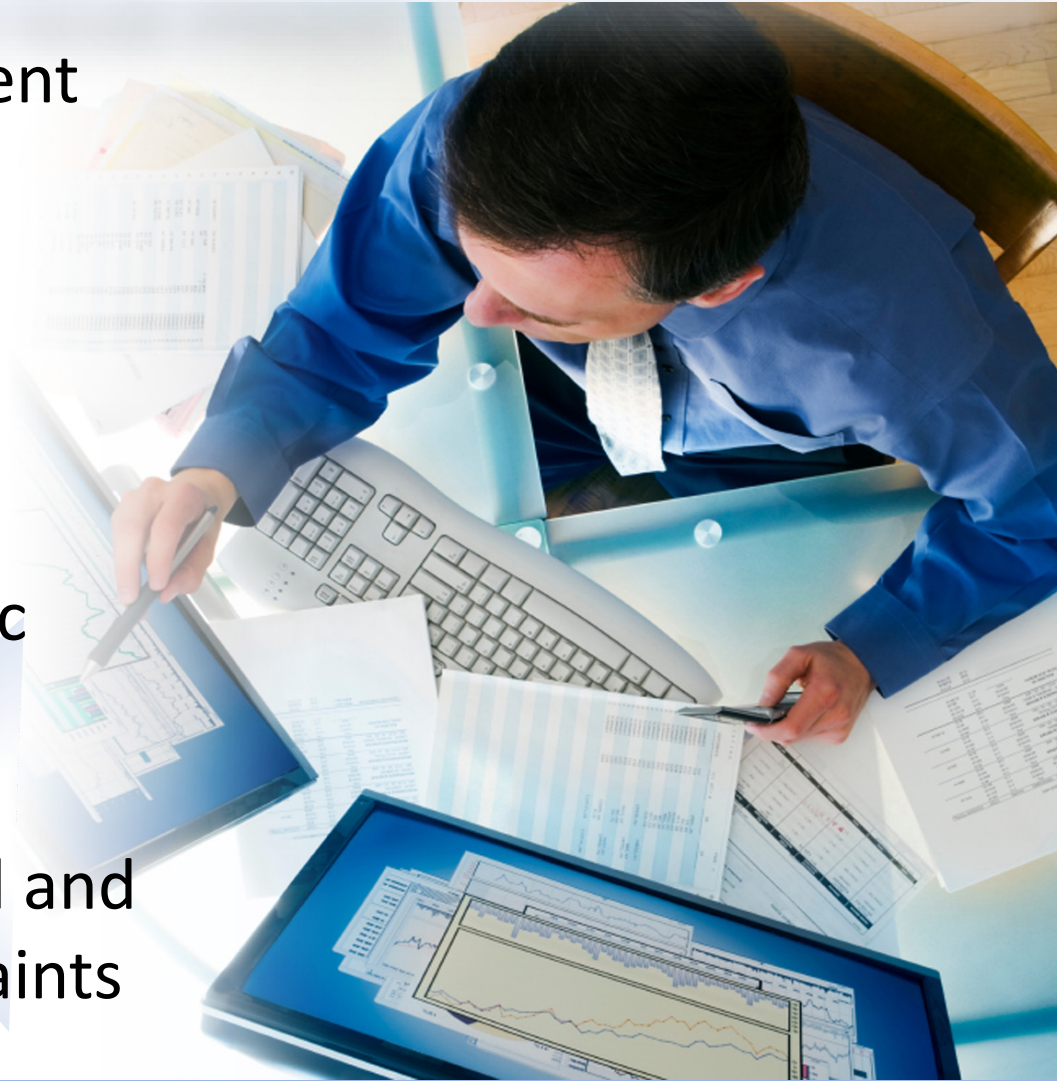
Guam



Northern Mariana Islands

CHALLENGES: Capital and Costs

- Cell Site Capital Investment
- Site Operating Costs
- Hardening Investment
- Limited Number of Public Safety Users
- City, County, State, Tribal and Federal Financial Constraints



FIVE UNIQUE COVERAGE CATEGORIES

Unique Geography and Demographics Require Multiple Solutions – Seamless Operation



**Wilderness/
No Coverage**



Rural



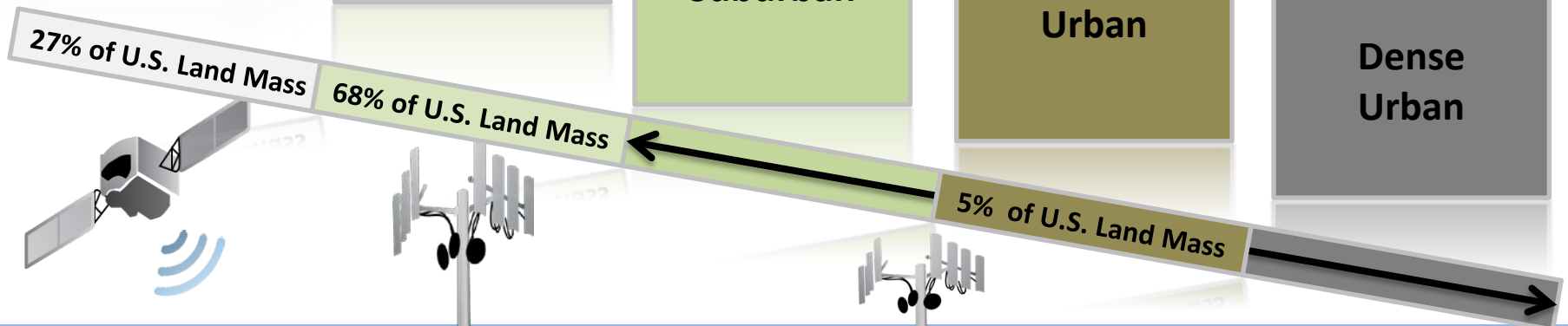
Suburban



Urban



**Dense
Urban**



LTE VALUE CREATION & INNOVATION

Open, commercial standards - economies of scale - time to market

Rapid Technology Development

Increased Device Capabilities





Improved Infrastructure Deployment Capabilities

Affordable Device Costs



DEVICE CONSIDERATIONS

FirstNet will work with the vendor community on portable devices and in-vehicle routers

	Portables	In-Vehicle Routers	Specialized	Accessories
Device Types				
Category Driver	Build out to gain economies of scale		Special operational needs	Unique uses
Function	<ul style="list-style-type: none"> • Smartphone • Tablets • Modems 	<ul style="list-style-type: none"> • Routers • Hotspots • Consoles 	<ul style="list-style-type: none"> • Drones • Portable repeaters • Rovers 	<ul style="list-style-type: none"> • Ruggedized cases • Battery packs • Chargers, mics.
Connectivity	<ul style="list-style-type: none"> • LTE, CDMA, HSPA • LMR/ P25 • Wi-Fi, Bluetooth • Direct mode 	<ul style="list-style-type: none"> • LTE, CDMA, HSPA • Wi-Fi • Ethernet • USB 	<ul style="list-style-type: none"> • LTE, CDMA, HSPA • LMR/ P25 • Satellite repeaters • Location services 	<ul style="list-style-type: none"> • Bluetooth • USB • WiFi
Location Enabled	Yes	Yes	Some	n/a
Band 14 Support	2014	2013/2014	2015+	n/a

COMPLEMENTING LMR WITH LTE

Public safety will rely on land mobile radio (LMR) for mission-critical voice until LTE capabilities exceed current functionality

Elements to be evaluated:

- **Push-to-talk**
- **Direct mode**
- Emergency calling
- Enhanced broadcast
- High-power mobile
- Public safety-grade performance

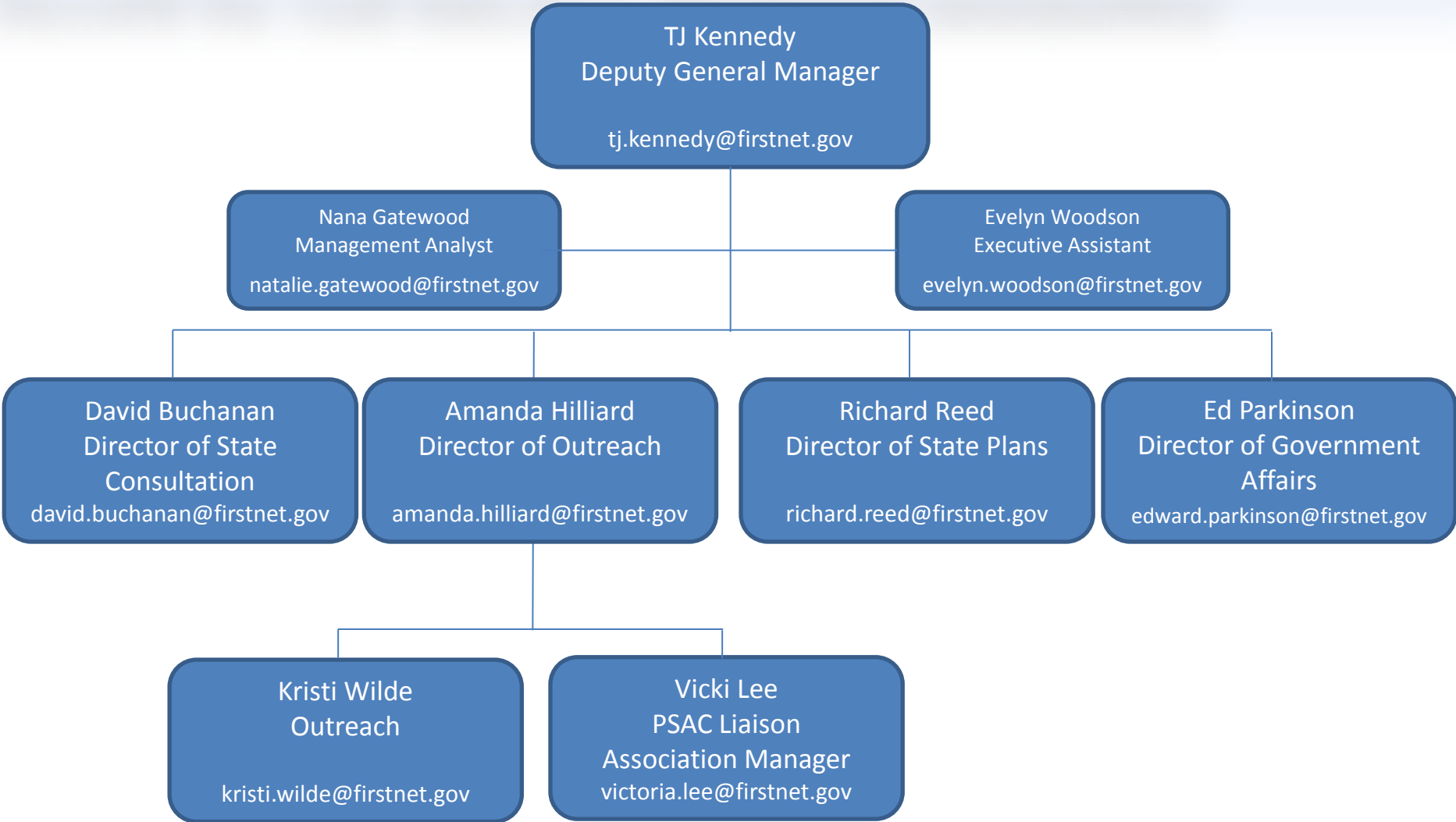


QUESTIONS ?

State Outreach and Consultation Updates



OFFICE OF THE DEPUTY GENERAL MANAGER



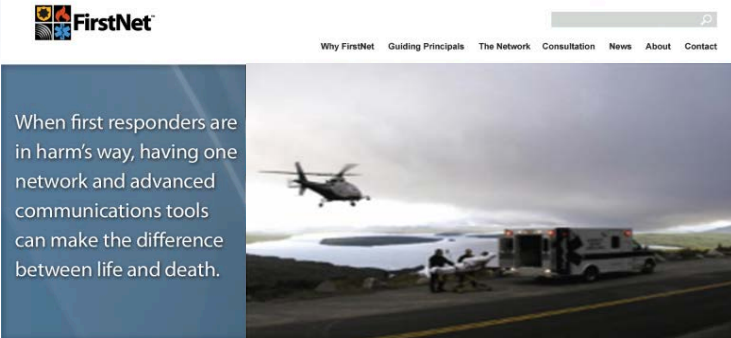
OUTREACH OVERVIEW

FirstNet is Increasing Outreach to the States Through:

- Monthly Conference Calls with SPOCs
- Quarterly Webinars with SPOCs
- Outreach Materials
- FirstNet Website Launch
- Outreach and Coordination with SLIGP team
- Tribal Community Outreach Efforts

FirstNet is Increasing Outreach to Locals / Associations Through:

- PSAC and FirstNet Team Coordination
- Briefings for National Association Reps
- Individual Outreach as Needed
- Event Outreach



When first responders are in harm's way, having one network and advanced communications tools can make the difference between life and death.

Sign up for updates from FirstNet.
Stay up to date on FirstNet progress, events, materials and more by signing up for email alerts.

[Sign up](#)

[PSAC Projects Update](#) [Consultation](#) [Resources](#)

The Public Safety Advisory Committee (PSAC) provides expert perspective to help FirstNet address the needs of public safety. [LEARN MORE](#)

Consultation is a listening process. We are gathering requirements and priorities from stakeholders across 56 states and territories, so FirstNet can design a nationwide network that meets their needs. [LEARN MORE](#)

Click here for an archive of FirstNet documents, links to important sites and other items that you might find useful. [GO TO RESOURCES](#)

The Promise of FirstNet

What is FirstNet?
FirstNet will be the first high-speed, wireless, broadband data network dedicated to public safety. FirstNet will be a single, nationwide network that facilitates communication for public safety users during emergencies and on the job every day. Think of FirstNet as a bigger, more reliable, secure and resilient "wireless pipe". This new network will be public safety-grade, providing access to applications and coverage where public safety needs it most.

What will be possible with FirstNet?
FirstNet will be used to send data, video, images and text and make cellular quality voice calls. Users will get fast access to information they need to meet their mission. Unlike commercial wireless networks, FirstNet will allow for priority access among public safety users. FirstNet will also give incident commanders and local officials control over the network so, for example, they can assign users and talk groups and determine who can access applications.

Why was FirstNet created?
After 9/11, the public safety community fought hard to fulfill the 9/11 Commission's last standing recommendation and convince Congress that it needed a dedicated, reliable network to provide advanced data communications capabilities nationwide. During emergencies, public safety requires priority service and preemption.

How will FirstNet benefit public safety?
Using FirstNet will improve situational awareness and decision-making. Just as smartphones have changed our personal lives, FirstNet devices and applications will ultimately change the way public safety operators. FirstNet will save time during emergencies when seconds count. FirstNet will save money for states by leveraging nationwide purchasing power and scale economies. Using FirstNet can help save lives, solve crimes and keep our communities and emergency responders safer.

How will states and agencies participate in the buildout of FirstNet?
To make FirstNet a nationwide network, all states must have a local radio access network (RAN) that connects to the FirstNet core. FirstNet is responsible for working through the designated state point of contact to consult with states, local communities, tribal governments and first responders to gather requirements for developing its RAN deployment plan. If the FirstNet plan is accepted by a state, FirstNet will construct the RAN. If a state prefers to build its own RAN, the state must secure FCC approval and may seek funding support from NTIA. State-built RANs must meet FirstNet security, hardening and interoperability requirements.

What will users pay for FirstNet services?
FirstNet intends to offer services at a compelling and competitive cost to attract millions of public safety users and make FirstNet self-sustaining. The use of FirstNet services and applications will be voluntary. The costs for FirstNet services and devices have not yet been set.

WIRELESS BROADBAND, DEDICATED TO PUBLIC SAFETY



FIRSTNET REGIONAL STRUCTURE

The FirstNet operational outreach model aligns with 10 FEMA regions.



- **10 Regional Teams to:**
 - Work with the state SPOCs
 - Outreach to cities and other localities
 - Current Focus: state consultation
 - Future Focus:
 - Solution sales
 - Support
 - Account management
 - Outreach
 - Education and training

- **2 Nationwide Teams to:**
 - Gather input and requirements
 - Serve users

FEDERAL
TEAM

TRIBAL
TEAM

TRIBAL OUTREACH UPDATE

- November strategy meeting held
- Communications plan development
- Outreach materials creation
- Strategy development
- Hiring personnel

FirstNet recognizes that engagement with tribal entities adds a level of complexity that expands beyond the borders of a single state.

State Consultation

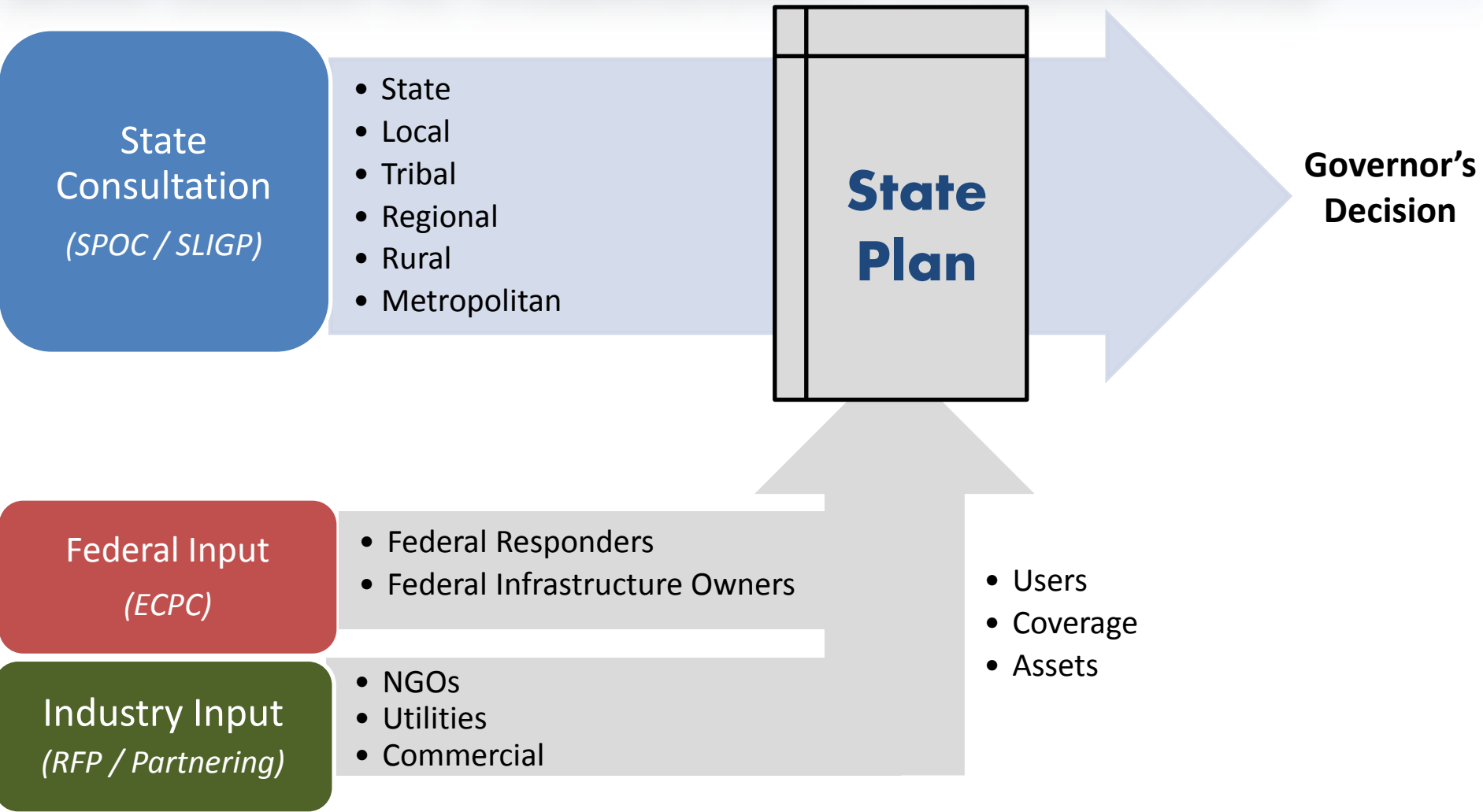


OVERVIEW OF CONSULTATION PROCESS

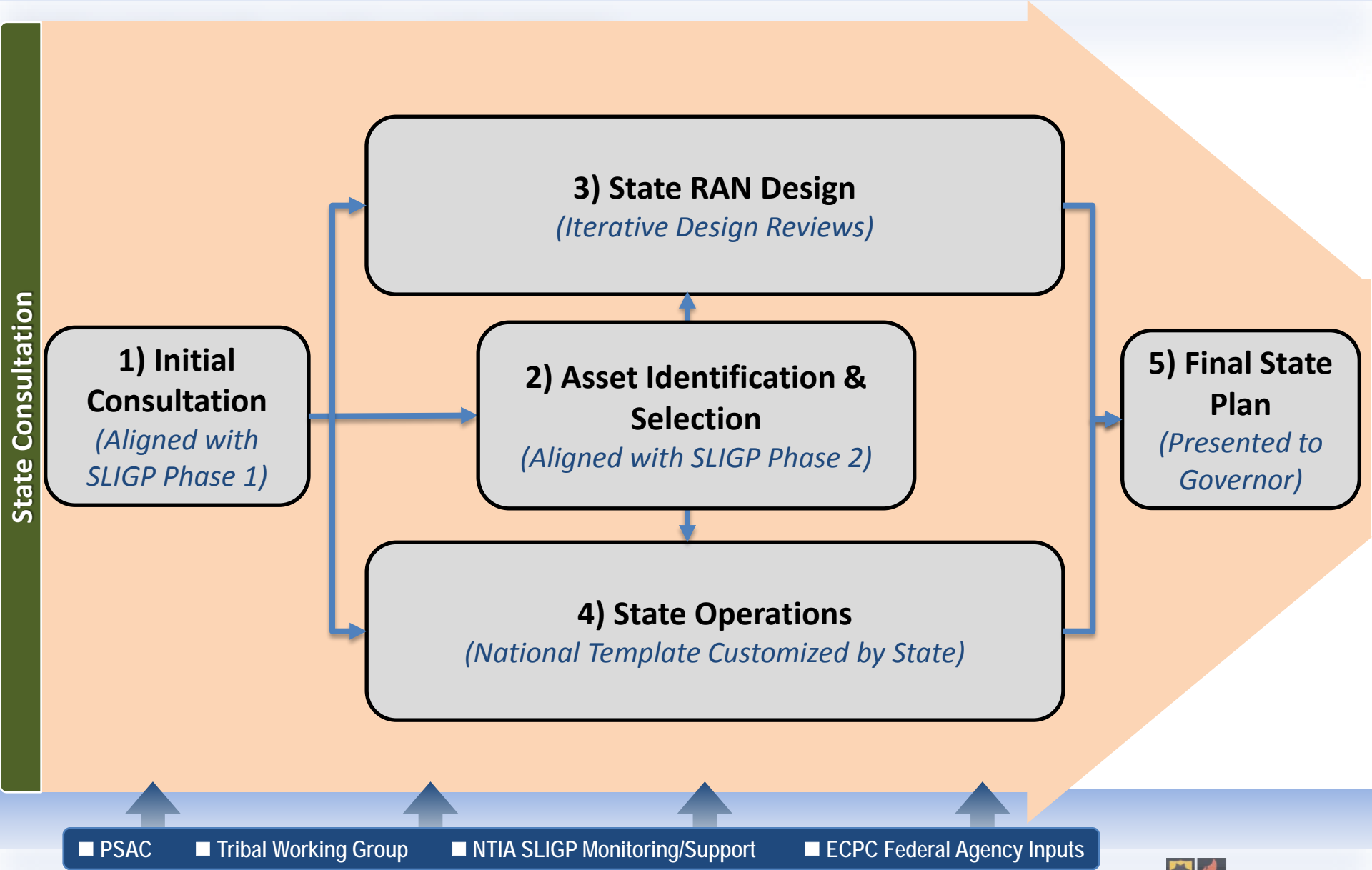
- Consultation is an iterative process, not a single event
- FirstNet will communicate the consultation process and necessary roles and responsibilities
- Consultation will focus on critical information and data
- Plan development will be iterative
- Consultation culminates with the creation of the state plan

Together, stakeholders and FirstNet will have engaged in a process that provides meaningful and thorough information for the state plans.

WIDE RANGE OF STAKEHOLDER CONSULTATION



DEFINING THE PROCESS



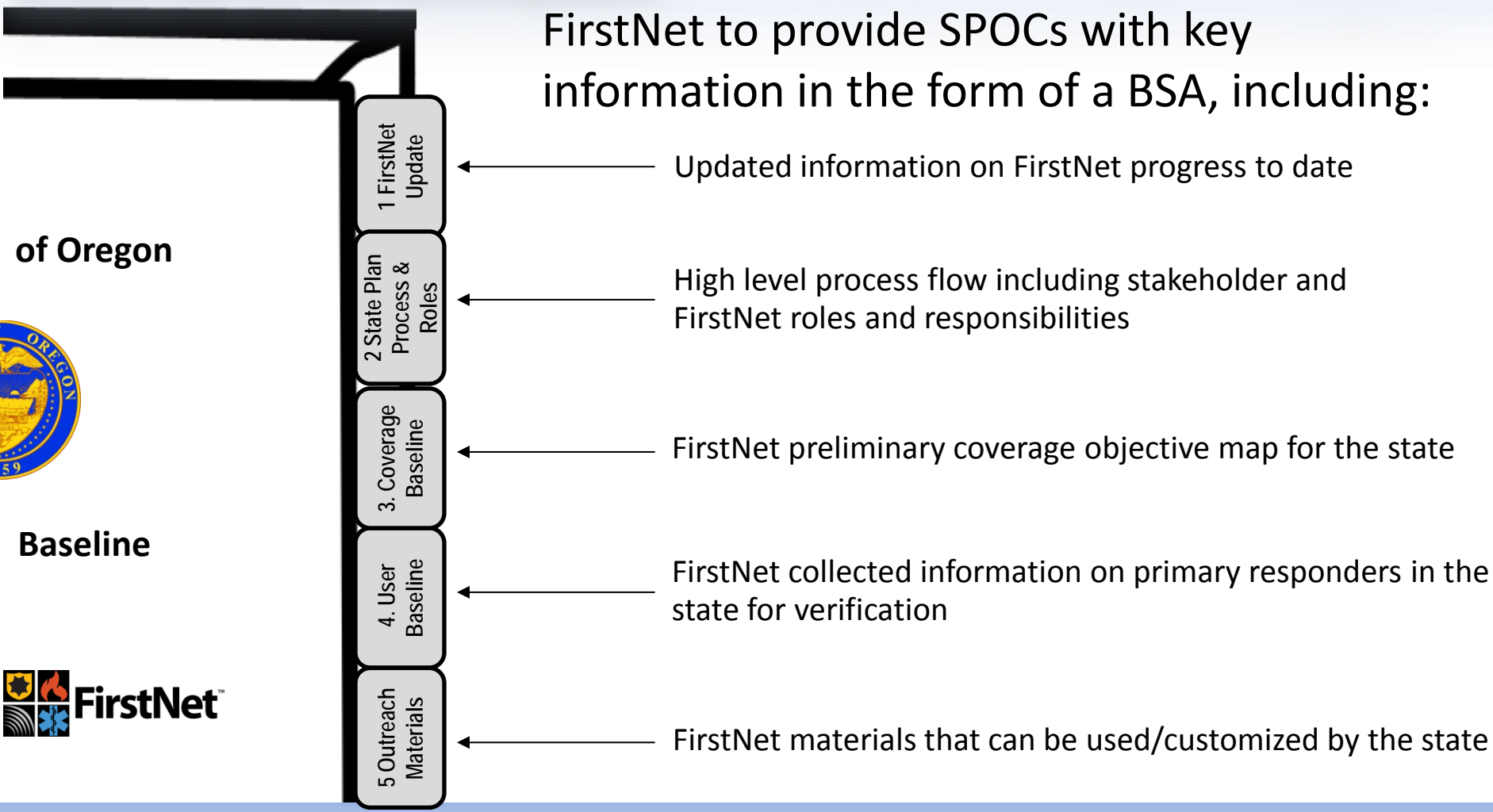
■ PSAC ■ Tribal Working Group ■ NTIA SLIGP Monitoring/Support ■ ECPC Federal Agency Inputs



1- INITIAL CONSULTATION – Baseline State Analysis

Getting Ready for Consultation

FirstNet to provide SPOCs with key information in the form of a BSA, including:



GETTING STATES READY FOR CONSULTATION (Cont.)



- Consultation Readiness Checklist
 - FirstNet is developing a checklist for SPOCs to use as a guideline prior to consultation.
 - This checklist's topics are consistent with deliverables required by SLIGP.
- Examples of Consultation checklist items may include:

Governance:

- Functioning governance body in place
- Date/Time of next governance body meeting known
- Formal relationships documented with state's tribes

Assessment and Validation:

- User agencies identified / proposed
- Secondary users identified / proposed
- Key stakeholders with assets that could assist with the network build out are identified

Outreach and Education:

- Statewide outreach plan created
- Large metropolitan area contact list built
- Tribe contact list built
- Rural contact list built
- Established email list for all public safety leadership in state
- Calendar of existing state, regional, and national public safety association events

This process will begin with FirstNet communicating to states about the process, roles, and responsibilities; states will be asked to validate and enhance (not recreate) existing information.

2 - ASSET IDENTIFICATION & SELECTION

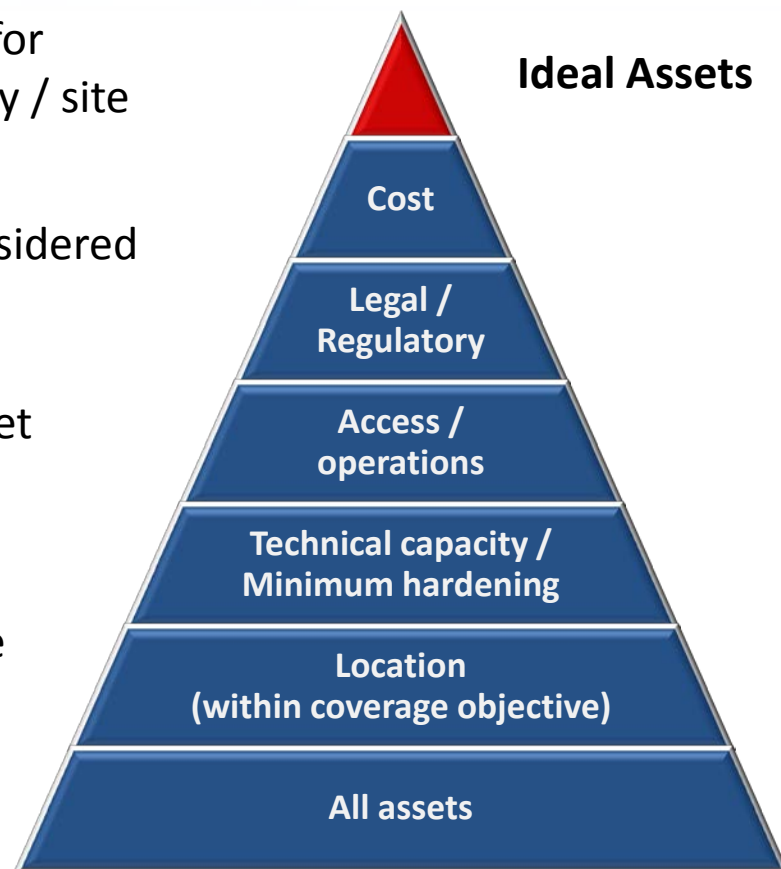
(Aligned with SLIGP Phase 2)

Key Steps

- Define minimum recommended attributes of assets for consideration (Coverage objective / technical capacity / site access / operations / low cost)
- Request data collection on available assets to be considered
- Assess all assets (commercial and public)
- Select assets based solely on best value to the FirstNet network

Guiding Principle

- Limit data collection to viable assets to save the state time/effort
- Leverage assets to provide better coverage at a lower cost
- Leverage assets to deploy quicker



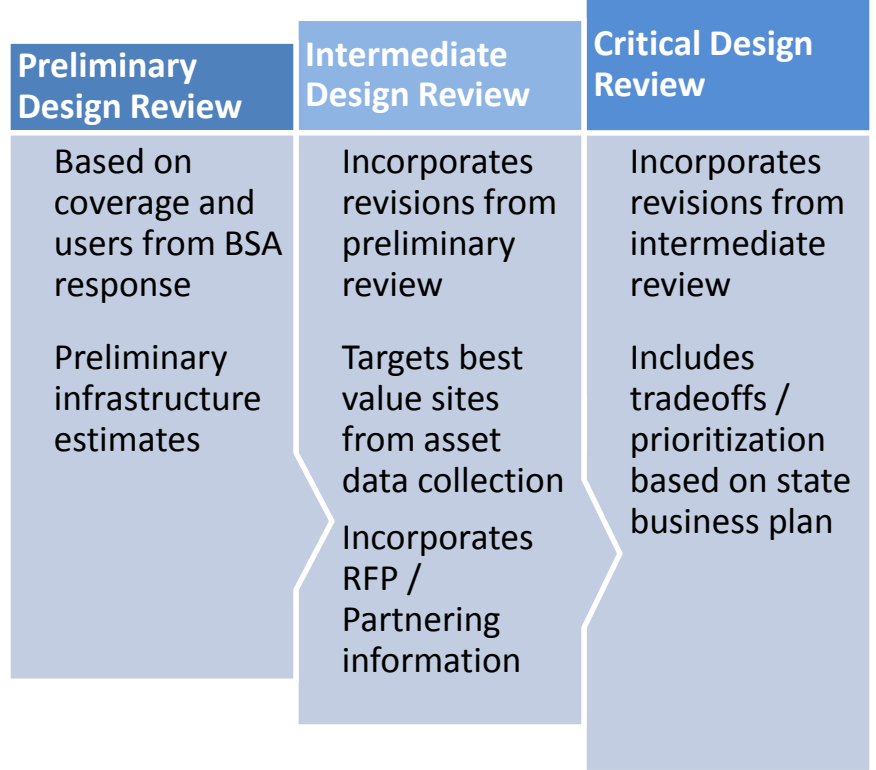
3 - STATE RAN DESIGN PROCESS

Key Steps

- Multi-phase (preliminary / intermediate / critical design) reviews with state to refine design based on identified priorities
- Incorporate feedback and additional data as it is collected (SLIGP Phase 2 / RFP Process)

Guiding Principle

- Ensure on-going review / refinement process with state
- Jointly develop tradeoffs and priorities



4 - STATE OPERATIONS

Key Steps

- Leverage PSAC and others to discuss overall approach to:
 - Local control
 - Prioritization
 - Training
 - Security
- Develop operations template with areas for input/customization
- Develop system cost structure / business plan for state based on preliminary RAN design and potential user base
- Customize based on public safety stakeholder input

Guiding Principles

- Address areas of consultation required by law
- Ensure state RAN design is supported by business planning and cost considerations



5 - FINAL STATE PLAN

Key Steps

- Document proposed coverage and associated cost
- Supply projected funding level
- Provide final review opportunity by state's SPOC / governing body
- Submit to the Governor

Guiding Principles

- Address areas of consultation required by law
- Ensure public safety stakeholders have had robust involvement before state plan is presented

State Plan Requirements

- Completion of the RFP process
- Details of proposed build-out in the state
- Funding level for the state



QUESTIONS ?

Q & A / Open Discussion



Topics For the Next Webinars



NEXT STEPS

- **Upcoming Dates (Planned *):**
 - **Ongoing Quarterly Webinars :**
 - April 2, 2014
 - July 9, 2014
 - October 1, 2014
 - **SLIGP Workshops:**
 - February 25-26 - Atlanta, GA
 - March 11-12 - Phoenix, AZ

- **Solicitation of possible subjects for the next webinar:**
 - Topic: _____
 - Topic: _____
 - Topic: _____

* Please send any major scheduling conflicts to Kristi for scheduling adjustment considerations.

FirstNet will work with SPOCs, local / national organizations, and key stakeholders to present the most up-to-date, relevant information available.

THANK YOU

www.firstnet.gov

