

Overview of FloridaNet

**Project approach for designing a
National Public Safety
Broadband Network (NPSBN),
formally known as D-Block,
now called FirstNet**

July 2014



Introduction to the NPSBN

- The NPSBN also known as FirstNet will be the first nationwide, high-speed wireless, broadband data network dedicated to public safety.
- This new network will be public safety-grade, providing access to applications and coverage where public safety needs it most.
- FloridaNet will be the state version of this network and is expected to provide an interoperable, state-wide, public safety data network linking public safety agencies across the state.
- Agencies benefiting from FloridaNet will likely include law enforcement, emergency management, fire service, public works, health, Tribal public safety agencies, emergency medical services, and others.

Introduction to FloridaNet



FloridaNet Vision

Charting Florida's response to FirstNet for state, local, regional, and tribal emergency responders and designated public service organizations operating within the State.

Introduction to FloridaNet

FloridaNet Mission

Provide a statewide strategic planning framework for an innovative, inclusive, scalable, sustainable, and well-managed FloridaNet infrastructure that promotes national FirstNet broadband standards and is effective in addressing the unique tribal, rural and urban requirements of the emergency responders and designated public service organizations serving the residents and visitors of the State of Florida.

Introduction to FloridaNet

A little background on FloridaNet...

- Created by Governor Scott to provide governance and a planning assessment framework for the first high-speed wireless, broadband network dedicated to public safety – historically referred to as D-block and now call FirstNet
- Ensure a seamless, reliable, dedicated broadband communication for public safety use in Florida, as part of FirstNet planning
- Assess Florida's options for creating a dedicated broadband data network: a recommendation of the 9/11 Commission (D-Block)
- FirstNet is under the U.S. Dept. of Commerce, National Telecommunications and Information Administration (NTIA)
- Congress allocated \$7 Billion for the FirstNet's national build-out
- Florida has been awarded \$4.9 Million grant through a State and Local Implementation Grant Program- SLIGP
- The grant assists FloridaNet with its broadband planning efforts.

Introduction to FloridaNet

A little background on FloridaNet...

- To date, 50+ public-sector, public safety associations, and private-sector organizations participating in FloridaNet planning efforts
- The Seminole Tribe of Florida and the Miccosukee Tribe are participating
- 120+ individuals currently participating in planning efforts
- Multiple regional workshops planned for 2014

Introduction to FloridaNet

Purpose of FloridaNet Governance Structure

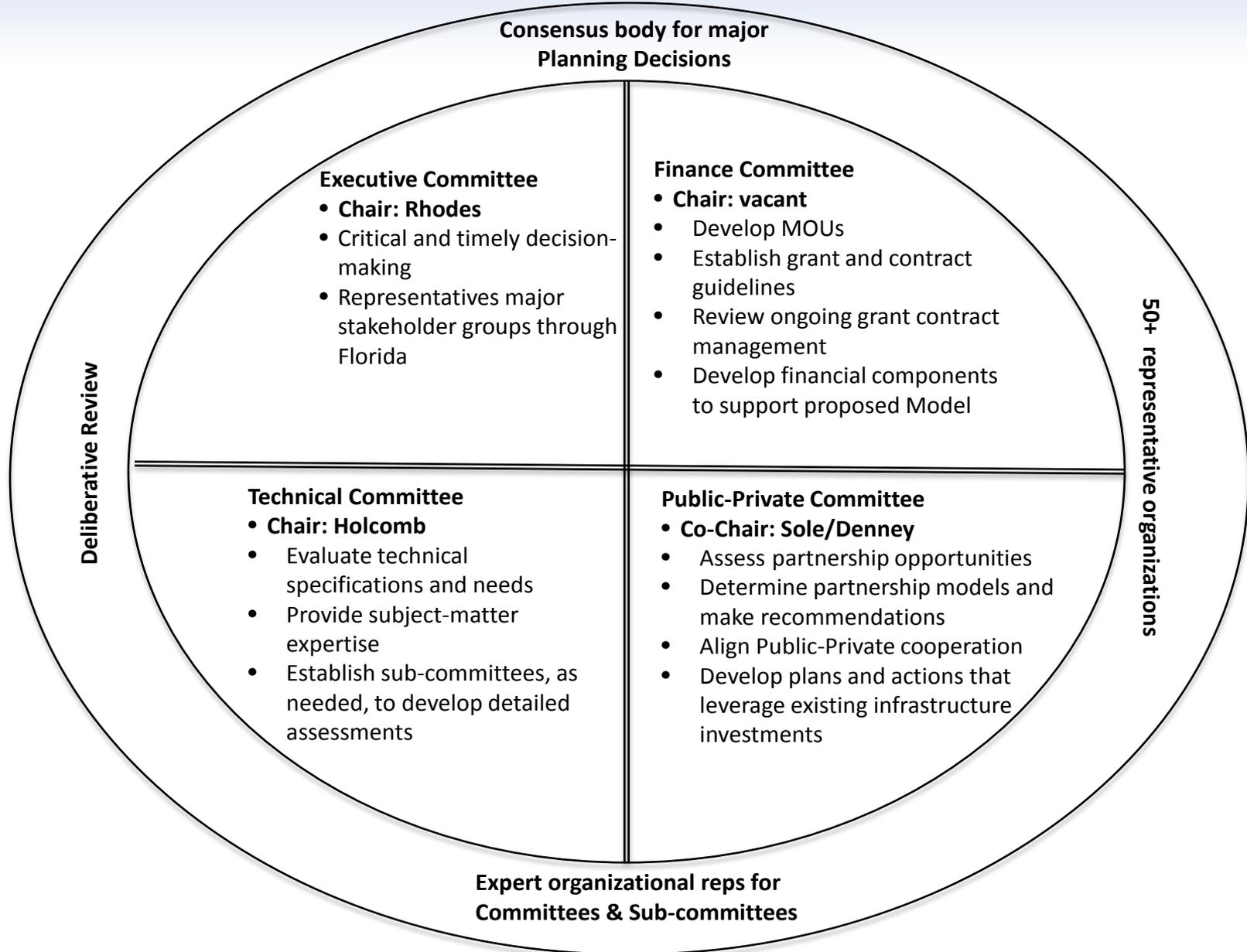
The governance structure is designed to develop recommendations from the bottom-up in an effort to improve interoperable communications and establish buy-in throughout the FloridaNet assessment process.

FloridaNet

Executive Committee Members

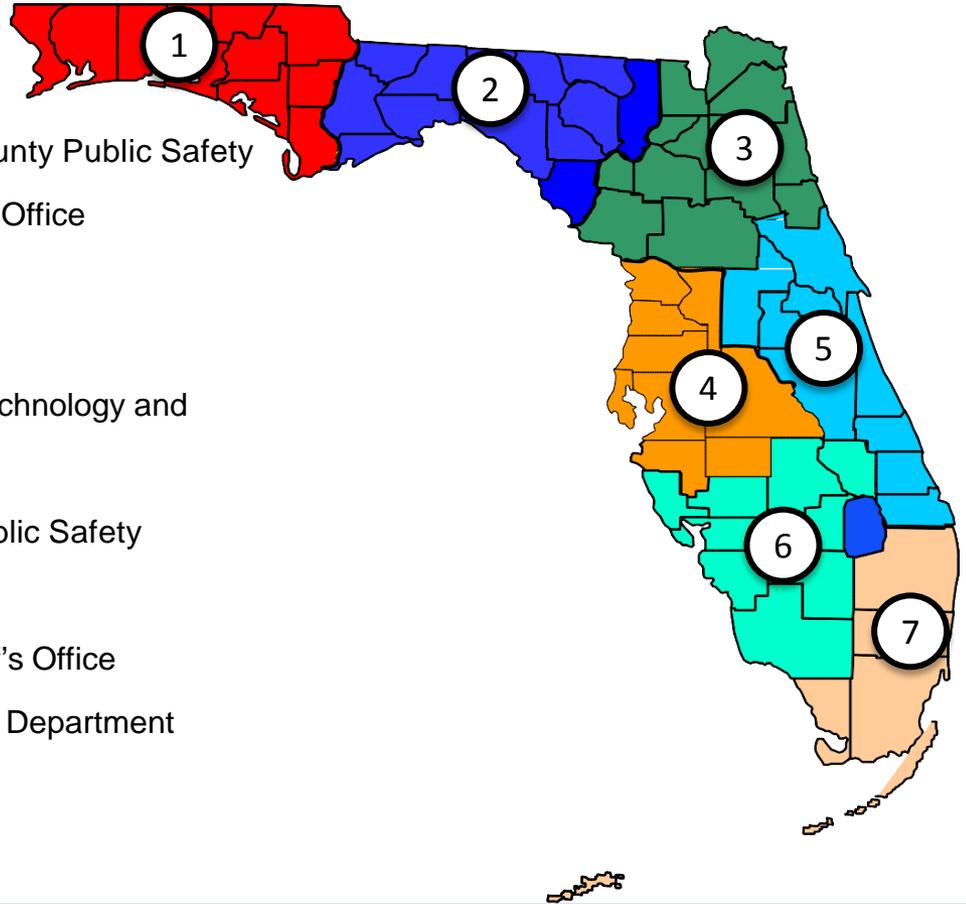
- Chair: DHSMV – Terry Rhodes, Executive Director
- Governor’s Office – Jason Allison, CIO
- Homeland Security Advisor – Donna Uzzell, Florida Dept. of Law Enforcement
- Police Chiefs Association– Daniel Alexander, Boca Raton Police Department
- Tribal Representatives – Bobby Brown (Seminole Tribe of Florida)
– Ray Weeks (Miccosukee Tribe)
- Sheriffs Association – Steve Casey, Executive Director
- DMS – Stacy Arias
- DEM – Charles Hagan
- Department of Health – Mike McHargue
- Technical Committee Chair – Greg Holcomb, Lake County Public Safety
- Finance Committee Chair – vacant
- Department of Economic Opportunity – Sherri Martin
- Public-Private Sector Co-Chair – Mike Sole, FP&L
- Public-Private Sector Co-Chair – Colin Denney, Verizon
- Fire Chiefs – Kevin Herndon, Deputy Chief
- State-wide EMS Representative – Greg Rubin, Miami-Dade Fire Rescue

FloridaNet Advisory Committee



Local Leadership

(Planning using Florida's 7 Domestic Security Regions)



Technical Committee Chairman – Greg Holcomb, Lake County Public Safety

Region 1 - North West – Rob Fortner, Bay County Sheriff's Office

Region 2 - North Central – Nick Simoncini, FDLE

Region 3 - North East – Rolf Preuss, Flagler County E-911

Region 4 - Central West – Terry Nehring, City of Tampa, Technology and Innovation

Region 5 - Central East – Rich Steiner, Orange County Public Safety Communications

Region 6 - South West – Bob Finney, Collier County Sheriff's Office

Region 7 - South East – Cindy Cast, Miami-Dade Info Tech Department

UASI – Norm Poe, City of Orlando Radio Operations

State and Local Implementation Grant Program (SLIGP)

The SLIGP is a formula-based, matching grant program to assist States, in collaboration with regional, tribal, and local jurisdictions, to perform activities related to planning for the establishment of a nationwide public safety broadband network.

20 percent non-federal matching funds toward the total eligible project cost. Matching funds may be in the form of either cash or in-kind contributions.

Two phases of funding:

Phase 1: planning, consulting, and development activities in preparation for consultations with FirstNet, including strategy and timeline development, meetings, governance planning, outreach and education efforts, coverage maps, existing data plan cost, and priority of user access determinations.

Phase 2: Begins after FirstNet has consulted with Florida and NTIA approves and involves discussions of existing infrastructure, user requirements, and network hardening and resiliency requirements.

State and Local Implementation Grant Program (SLIGP)

Throughout the grant period of performance, NTIA will require recipients to show that they are on track to accomplish the following activities by the end of that period:

- (1) Establish a governance structure**, or expanded existing structures, to consult with FirstNet;
- (2) Develop procedures to ensure local and tribal representation and participation** in the consultation process with FirstNet;
- (3) Create a process for education and outreach**, through program development or through other efforts, among local and tribal officials, public safety users, and other stakeholders about the nationwide public safety broadband network;
- (4) Identify potential public safety users** of the public safety broadband network;
- (5) Develop a standard Memorandum of Agreement (MOA)** to facilitate the use of existing infrastructure with private sector entities that have been chosen by FirstNet to build, operate, and maintain the network on public safety infrastructure, or identified the legal barriers to creating a standard MOA and describe potential remedies;
- (6) Develop staffing plans that include local and tribal representation** to participate in the public safety governance structure and to prepare for data collection activities in consultation with FirstNet; and
- (7) Prepare a comprehensive plan** as part of their existing Statewide Communications Interoperability Plan (SCIP), or a plan complementary to and similar in concept to their SCIP, describing the public safety needs that they expect FirstNet to address in its design of the nationwide public safety broadband network, as well as how they intend to satisfy each of the elements enumerated above, including milestones that demonstrate their progress.

State and Local Implementation Grant Program (SLIGP)

Ineligible Costs

Funds awarded under the SLIGP may **not** be used for activities related to site preparation, broadband deployment, installation, construction, or the acquisition of equipment used to provide wireless broadband services. Please note that costs ineligible for SLIGP support may not be included as matching funds.

FloridaNet Progress to Date

- \$4.9M awarded September 1, 2013
- Project plan completed and implementation underway
- Governance model implemented and membership is growing
- Education and outreach: 1st Round held 32 Statewide Listening Sessions held between Feb and April in 8 Cities, plus 2 WebEx sessions
- Actively developing broadband coverage GIS survey tools for local use
- FirstNet pre-consultation held and consultation package filed
- Requested date for starting formal consultation
- Designing our next workshop on broadband coverage

Next Steps

- Starting formal consultation with FirstNet
- Holding a 2nd round of statewide workshops to gather broadband coverage needs and priority users (late summer)
- Creating statewide broadband coverage needs
- Develop user priority user recommendations
- Once Phase 2 begins, gathering infrastructure data and other necessary information via GIS tools and a 3rd series of workshops (late fall)
- Complete FloridaNet recommendations for a national high-speed broadband data network (2015)

Overview of National Public Safety Broadband Network, formally known as D-Block, now called



Introduction to FirstNet

- Dedicated network was a recommendation of the 9/11 Commission (D-Block)
- U.S. Department of Commerce is lead federal agency and NTIA is managing the grant
- Congress has allocated \$7 Billion for the build-out
- 15-member FirstNet Board created to run process within Commerce
- Florida awarded \$4.9M through SLIGP for planning efforts

What Will Be Possible with FirstNet?

- FirstNet will be used to send data, video, images and texts as well as make non-mission critical voice calls.
- FirstNet will not replace Florida's land mobile radio systems.
- Users will get larger bandwidth and faster access to information they need to meet their mission.
- Unlike commercial wireless networks, FirstNet will allow for priority access among public safety users.
- New applications, appliances and technologies for first responders are developed or will be developed.

SINGLE FOCUS

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

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

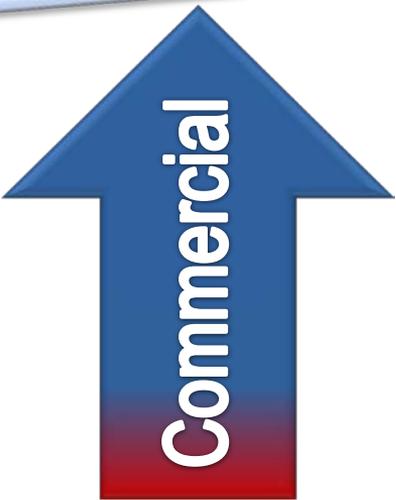
NO COMMERCIAL PARALLEL TO FIRSTNET



FirstNet

- Created by law
- \$2 billion funded **without plan, board** or management team
- **Mandated** Initiatives
- Empowers states to **opt-in or opt-out**
- **Geographic coverage requirements**
- **Public safety economics** coupled with finite number of users
- Start-up **constrained by government realities; e.g.,** hiring process, procurement process , pay scale.

- 
- **Created by market need**
 - Funding dependent on **plan and management experience**
 - Time-to- market and **customer driven initiatives**
 - **Defined competitive playing field** to gain customers
 - **Capacity** and financially viable user coverage
 - **Entrepreneurial** spirit, energy and incentive alignment



Commercial

Key Understandings

VISION & GUIDING PRINCIPLES

FirstNet will provide dedicated spectrum, a single technology and funding to create a nationwide network dedicated to public safety.



Public Safety Effectiveness

- Dynamic Priority Access
- Force Multiplier

Public Safety Grade

- Reliable
- Hardened
- Redundant
- Security

Public Safety Applications

- 4G data for video and web
- Non mission-critical voice

MULTIPLE PARTNERSHIPS

Strong Partnerships are important ensure optimal value creation for FirstNet



Wireless Network Operator Partner (s)



Supplier, Infrastructure Owner/Equity Investment Partner(s)



Federal
State
Local

FirstNet,
Federal, State,
Stakeholder
Asset Partner(s)

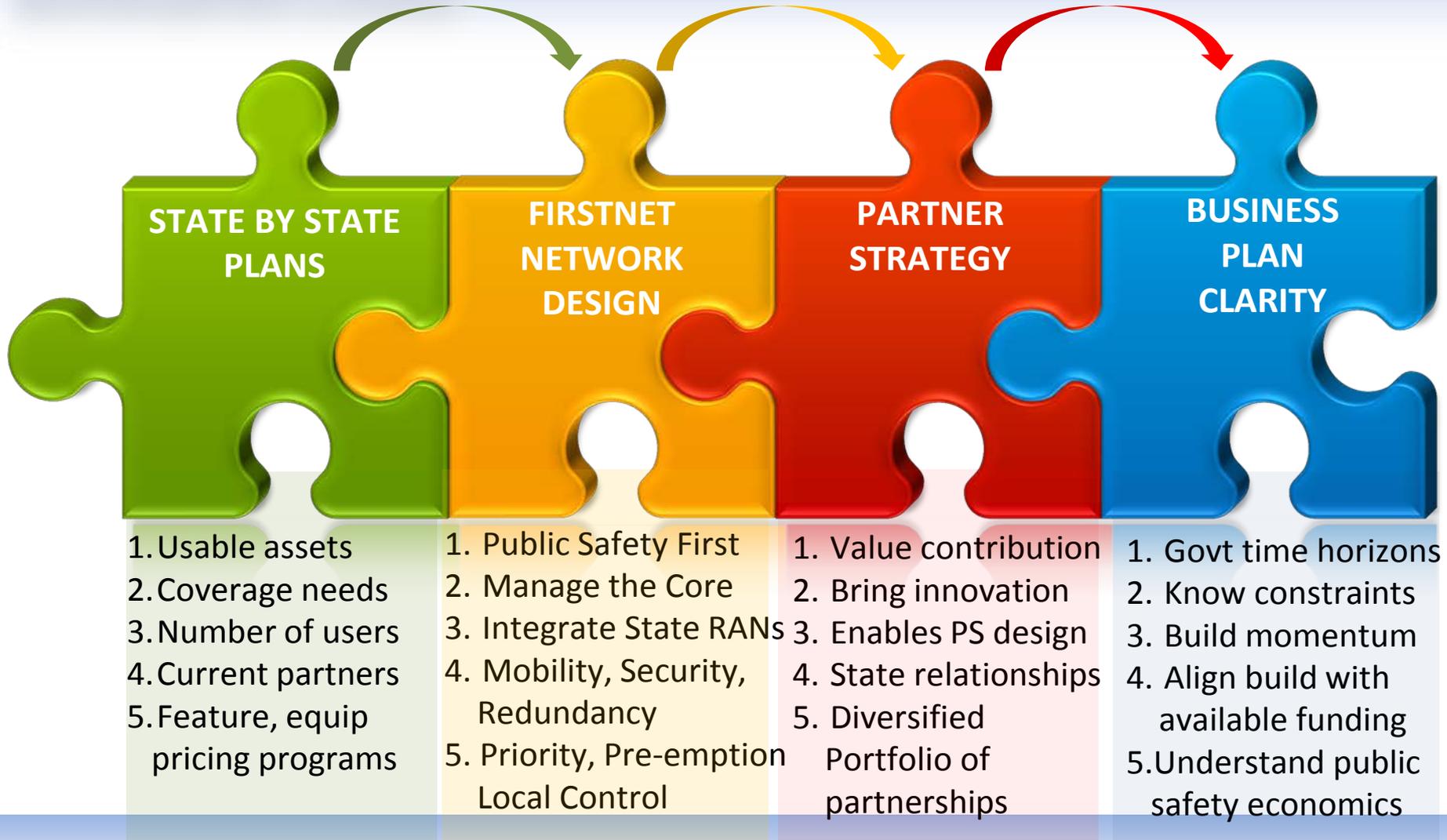
- Fulfill Public Safety Requirements
- Value Contribution
- Achieve Nationwide Interoperability and Coverage
- Control and Governance
- Contractual Terms & Pricing

Preferred path(s)

Key Understandings

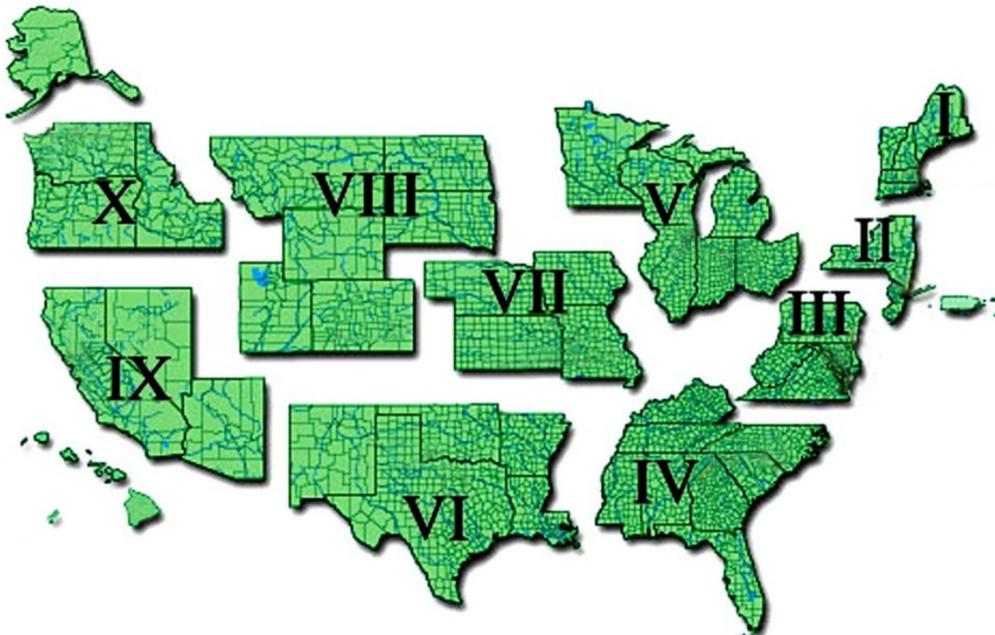
- Given the spectrum's value, excess capacity will be leased to the commercial sector to underwrite the public safety build-out.
- This will facilitate FirstNet partnering with the private sector but does not require piggy-backing on the private sector network.
- FirstNet will be a dedicated service. Priority and management will be given to and driven by public safety (local control).

BUSINESS PLAN



FIRSTNET REGIONAL STRUCTURE

The FirstNet operational outreach model aligns with 10 FEMA regions.



- 10 Regional Teams**
Work through the State POCs
Reach into cities and other localities
Current Focus: State consultation
Future Focus:
- Solution sales
 - Support
 - Account Management
 - Outreach
 - Education and training

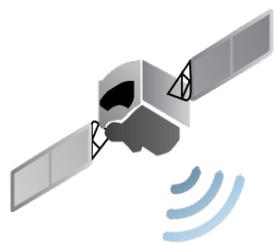
FEDERAL
TEAM

TRIBAL
TEAM

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

GEOGRAPHIC COVERAGE PRIORITY

Multiple network coverage solutions operating across five distinct geographic categories



Wilderness
27% of U.S. Land Mass

Rural
68% of U.S. Land Mass

Suburban **Urban** **Dense Urban**
5% of U.S. Land Mass

US Rural Pop. 19.3% US Urban/Suburban Pop 80.7%
 Florida Rural Pop. 9.7% Florida Urban/Suburban 90.3%

COMPLIMENTING LMR WITH LTE

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

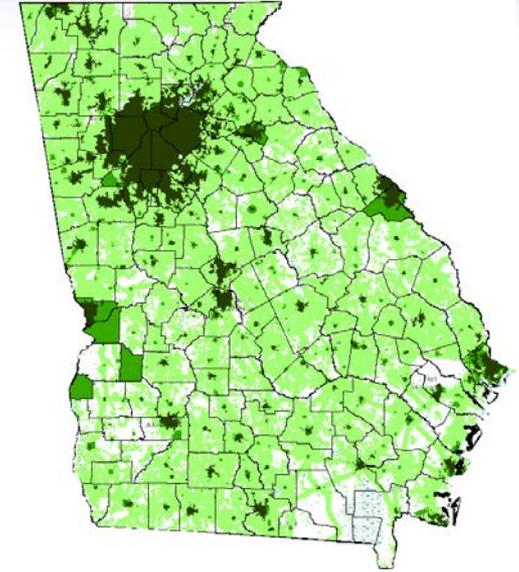
Elements to be evaluated:

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



DEFINING COVERAGE OBJECTIVES

- A GIS map will be provided showing proposed coverage objectives in four major categories:
 - In Building
 - Handheld / Partial In-Building
 - Vehicular Modem / Partial Handheld
 - Satellite / Deployable
- States will provide updated coverage objectives through an updated GIS file
- States will be encouraged to gather input from all local, state, and tribal agencies
- Voluntary OEC Coverage Workshops can help states get an early start and better understand this process
- Coverage objectives will be used to focus subsequent SLIGP Phase 2 data collection
- Parallel effort will occur with Federal agencies through federal outreach via ECPC



Coverage Baseline Example

- In-Building
- Handheld/Partial In-Building
- Vehicular Modem/ Partial handheld
- Satellite/Deployable

IDENTIFYING POTENTIAL USERS

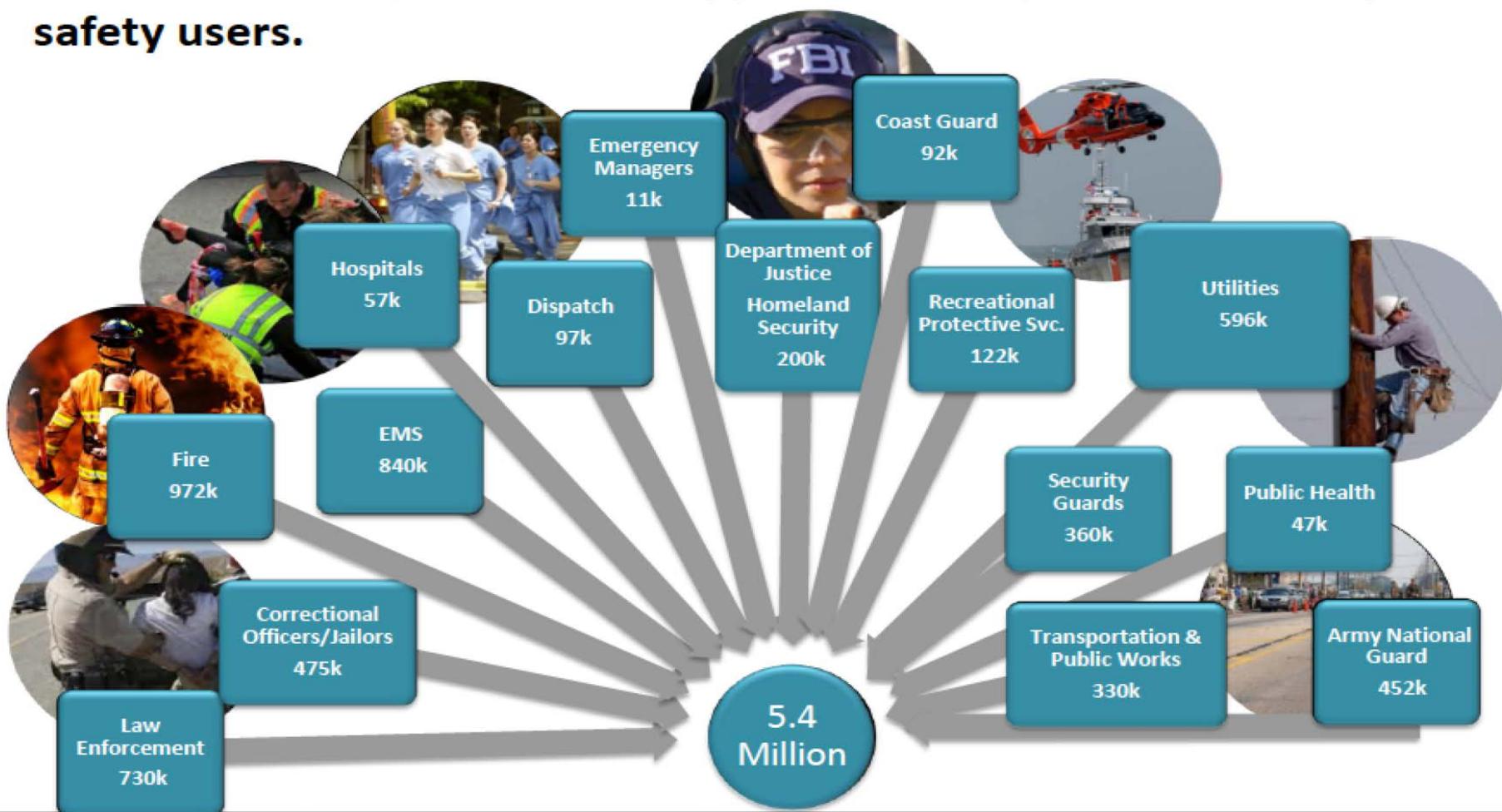
- FirstNet will provide user baseline data (as available) for primary responders in each State to include:
 - Number of agencies by discipline
 - Number of personnel by discipline
 - Detailed agency user database
- FirstNet will also provide potential categories of secondary responders for consideration by the State with guidance provided from PSAC
- States will provide updated data on primary responders and estimated user counts for secondary responder groups whom they believe should be eligible users on the network
- Parallel effort will occur with Federal agencies through Federal Outreach via ECPC
- Voluntary OEC workshops will provide this baseline data as part of the delivery.
- Data will be used to support subsequent data collection during SLIGP phase 2, as well as inform capacity planning



Key Understandings

VISION & GUIDING PRINCIPLES

FirstNet has the potential to support a broadly defined set of public safety users.



ASSET IDENTIFICATION & SELECTION

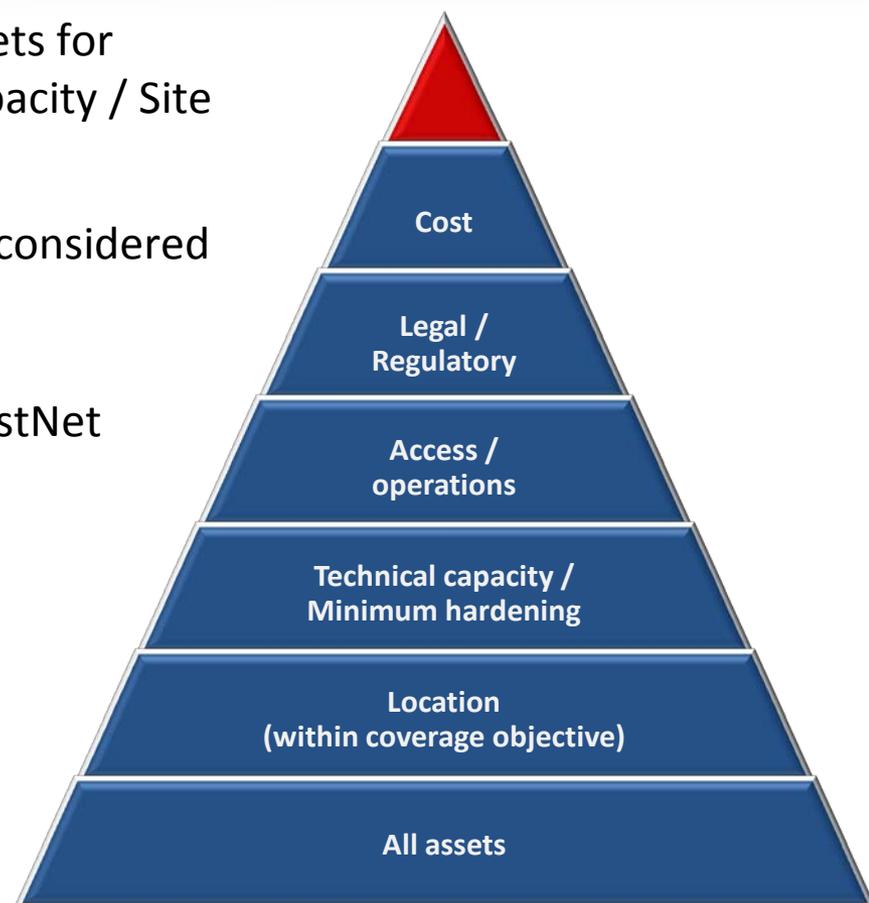
(Aligned with SLIGP Phase 2)

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 & 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

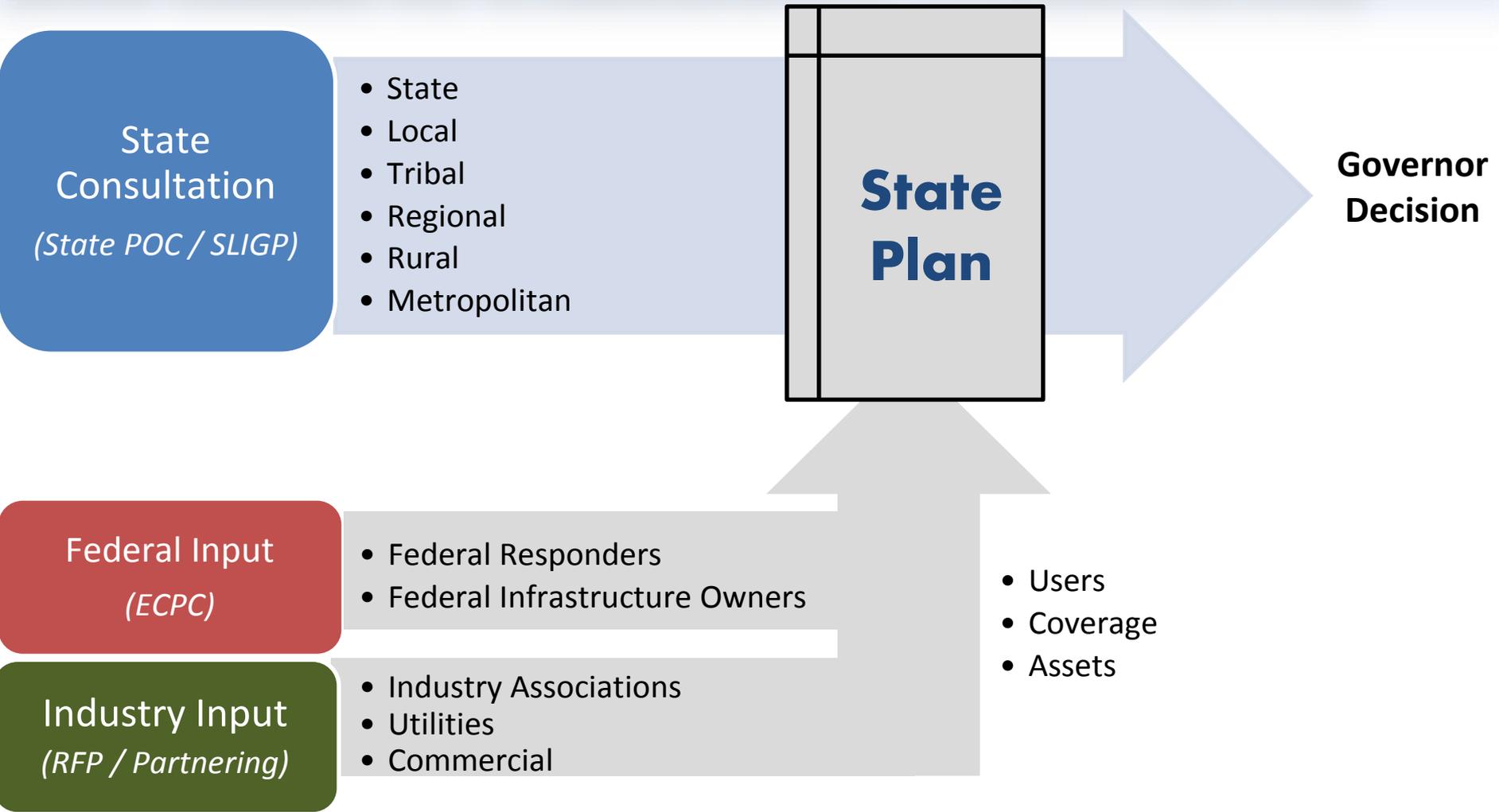


OVERVIEW OF CONSULTATION PROCESS

- **Consultation is an active process, not a single event.** FirstNet will collaborate and partner with stakeholders in a meaningful consultation process.
- **FirstNet will communicate the consultation process and necessary roles and responsibilities.** It will be clear to the stakeholders what the process is and what the expectations are for those involved.
- **Consultation will focus only on critical information and data.** FirstNet will focus on gathering only absolutely necessary data to help build the network.
- **Plan development will be iterative.** Stakeholders and FirstNet will have the opportunity to refine information and improve drafts.
- **Consultation culminates with the creation of the State Plan.** State Plans will be created with the information gathered during the consultation process.

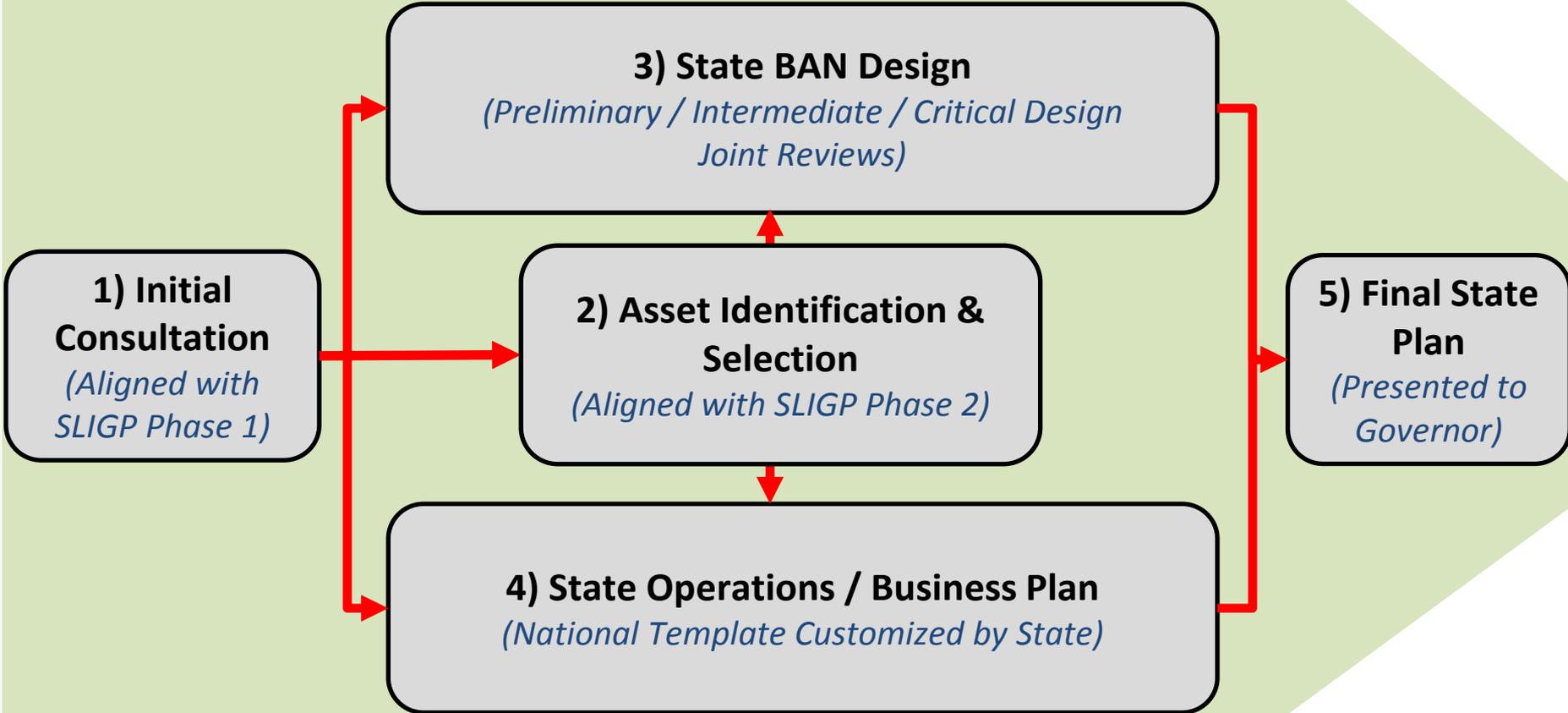
Together, stakeholders and FirstNet will engage in a process that provides meaningful and thorough information for the state plans.

WIDE RANGE OF STAKEHOLDER CONSULTATION



DEFINING THE PROCESS

Consultation



How Will FirstNet Work?

How will states and agencies participate in the build out of FirstNet?

- To make FirstNet a nationwide network, all states must have a local broadband access network (BAN) that connects to the FirstNet core.
- The FirstNet core is a common data sharing architecture.
- 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 BAN deployment plan.

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.

The Process for Working with FirstNet

State Visits

- FirstNet will work through the designated state point of contact to arrange a visit, agree on the agenda and identify participants.
- Timing will depend on state readiness, the State and Local Implementation Grant Program (SLIGP) Phase 1 award and how quickly FirstNet can staff up its outreach team.
- This meeting will pave the way for ongoing collaboration that will culminate in the development of a plan from FirstNet for constructing state BAN.

Tribal Outreach

- FirstNet has created an education and outreach program to engage tribal members in discussions about the network and their public safety needs.
- FirstNet encourages state governors to include tribal nations in the local FirstNet consultation process.

State Decision Process

State Decision Process

FirstNet will collaborate with states to develop and deliver a RAN plan that meets their needs.

Consultation

- Regional Workshops
- State Visits
- Ongoing Dialogue

RFP Process

FirstNet
Presents
Plan to
Governor

State Decision 2 Options

90 days to decide
and notify FirstNet,
NTIA and the FCC

Accept FirstNet Plan

FirstNet builds the RAN.
FirstNet intends to cover the
cost to construct, operate,
maintain and improve the RAN.

Opt Out

State seeks approval to
construct its own RAN

State Requirements:

- Notify FirstNet, NTIA and the FCC of intention to build within 90 days of receiving FirstNet Plan
- Submit alternate plan to FCC and gain FCC approval
- Complete an RFP
- May apply for grant funding from NTIA
- Must apply to NTIA to lease FirstNet spectrum

State Decision Process – Funding the Build-Out

OPT-IN

- State accept FirstNet plan;
 - FirstNet builds the BAN.
 - FirstNet intends to cover the cost to construct, operate, and maintain and improve the BAN.

OPT-OUT

- If the state's plan is approved by the FCC, the state may apply for grant funding from NTIA.
- To obtain federal funding to construct a BAN, a state must:
 - Demonstrate the technical capability to operate and fund the RAN;
 - Maintain ongoing interoperability with the FirstNet network;
 - Complete the project within specified comparable timelines;
 - Execute its plan cost effectively; and
 - Deliver security, coverage and quality of service comparable to the FirstNet network

FloridaNet

How to stay connected.



FloridaNet.gov

FloridaNet allows you to be able to:

- Sign-up to get regular email and newsletter updates on FloridaNet progress, meetings, workshops
- Download presentations, documents, and pertinent project information and updates
- View work products as they are released
- Find links to relevant information on FloridaNet, Major Associations and Organizations, and FirstNet

The screenshot shows the FloridaNet.gov website homepage. At the top, there is a navigation menu with links: FloridaNet Home, FirstNet, News, Events, Forums, References, Contact Us, and Members. Below the navigation is a large banner image featuring a map of Florida with a cell tower icon and the text 'Florida Net'. To the right of the banner is a search bar with the text 'Search our site...'. Below the banner is a section titled 'What is FloridaNet?' with a sub-header 'What is FloridaNet?'. The text below the sub-header reads: 'Governor Scott approved the creation of the FloridaNet Executive Committee to oversee the efforts involved in assessing Florida's strategy for connecting with a Nationwide Public Safety Broadband Network – called FirstNet. The FloridaNet Executive Committee will ensure broad participation of the public safety community and its private sector partners in Florida's efforts to plan for FirstNet implementation, including system design, operation, and governance. FloridaNet is expected to provide an interoperable, state-wide, public safety data network linking public safety agencies across the state. Agencies benefiting from FloridaNet will likely include law enforcement, emergency management, fire service, public works, health, Tribal public safety agencies, emergency medical services, and others. Purpose of FloridaNet Governance Structure:'. Below this text is a bulleted list: 'Required by the FirstNet/NTIA grant process', 'Representative governance body responsive to the Governor', 'Ensure a superior product through broad participation', 'Participation by the private sector has been designed into the FloridaNet governance structure', 'Achieve balance between broad participation and agility', and 'Provide appropriate forums for FirstNet issues'. To the right of the main content is a 'Our Tweets' section with a search bar and a 'Follow' button. Below this are two tweets: one from FloridaNet (@FLFirstNet) dated 5 Jun, and one from FirstNet (@FirstNetGov) dated 4 Jun. Below the tweets is a 'Tweet to @FLFirstNet' button. At the bottom right is a 'Latest Project Updates' section with a 'Recent Forum Posts' link and a 'Latest News' link. Below the 'Latest News' link are four news items: '-News Feeds', '-Earliest state plans', '-FirstNet Readiness Varies', and '-23% of states haven't started'.

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TWEETS 40 PHOTOS/VIDEOS 3 FOLLOWING 15 FOLLOWERS 95 More

Tweets Tweets and replies

FloridaNet @FLFirstNet · Jun 5
Our Florida reps at the #PSCR conference in front of a mobile cell tower #FirstNet



5 6 View more photos and videos



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FloridaNet
16 likes · 9 talking about this

Government Organization
Provide statewide leadership for FirstNet implementation in Florida.

Like Follow

16 Likes

FloridaNet shared a link. January 28
FloridaNet Hosting Statewide Listening Sessions on FirstNet (National Public Safety Broadband Network/D-Block)
<http://www.floridanet.gov/registration>



facebook.com/FloridaNet.gov

Thank you.



Questions?