

Overview of FloridaNet

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

June 2014





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.

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 Process - 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.



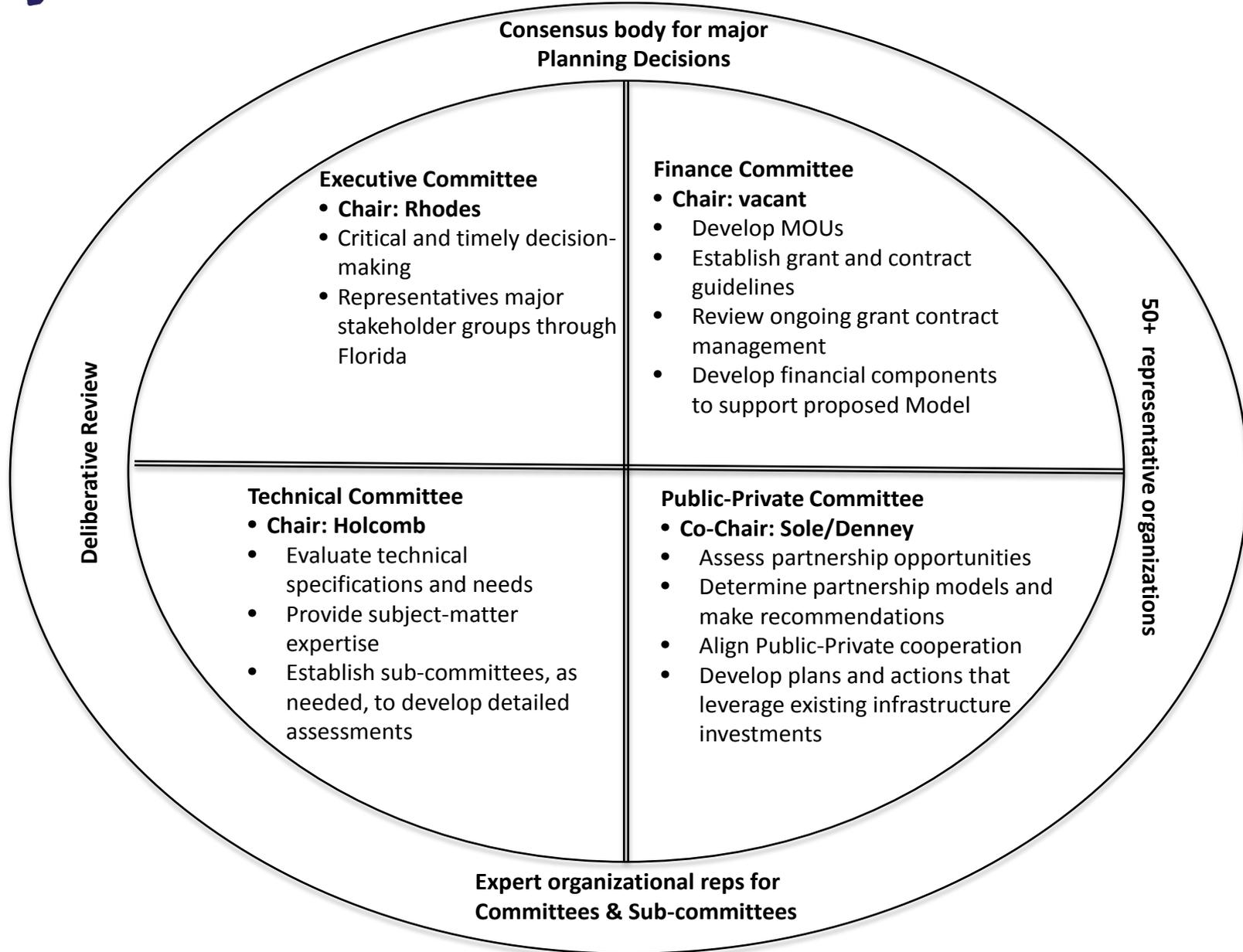
FloridaNet

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



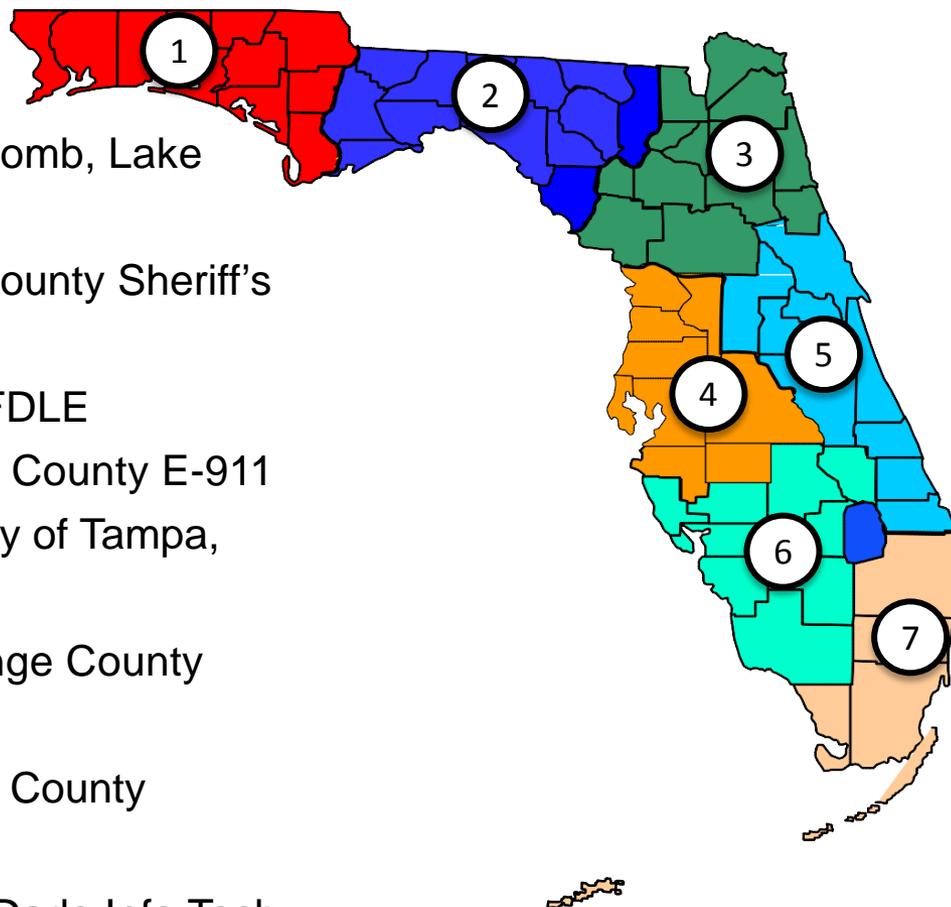
FloridaNet Advisory Committee





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) established a governance structure, or expanded existing structures, to consult with FirstNet;
- (2) developed procedures to ensure local and tribal representation and participation in the consultation process with FirstNet;
- (3) created 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) identified potential public safety users of the public safety broadband network;
- (5) developed 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) developed 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) prepared 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)

Eligible Costs

- a. Personnel costs, including salaries for staff and consultants required for the planning process (such as Statewide Interoperability Coordinators (SWIC), project managers, program directors, subject matter experts, grant administrators, financial analysts, accountants, and attorneys);
- b. Costs associated with planning meetings with state agencies, local and tribal stakeholders, and regional partners;
- c. Travel costs for State, local, and tribal representatives to attend planning meetings (such as preparing for FirstNet consultations and attending State, regional, and national meetings that address public safety broadband issues);
- d. Costs to develop, modify, or enhance statewide plans and governance structures, including efforts to adapt existing public safety governance authorities, such as the Statewide Interoperability Executive Committees (SIEC), and Statewide Interoperability Governing Bodies (SIGB), to include public safety broadband stakeholders and expertise, and determining the role of the SWIC, state Chief Information Officers (CIO), Chief Technology Officers (CTO), or Chief Budget Officers (CBO);
- e. Costs for communications, education, and outreach activities with State, local, tribal, and regional stakeholders;
- f. Costs to develop standardized MOAs and other types of agreements to facilitate access to and use of existing infrastructure;
- g. Costs to identify potential public safety users for the public safety broadband network;
- h. Administrative services costs, equipment costs, and supplies necessary to prepare for and manage the grant program;
- i. Legal services costs related to the planning process; j. Training costs related to the planning process; and
- j. Reasonable proposal preparation costs and pre-award expenses, which include costs related to preparing an application and any pre-award costs for States and territories to participate in FirstNet technical assistance workshops where consultation activities occur, may be reimbursed, if they are incurred after the publication date of this *Federal Funding Opportunity* and prior to the date of the issuance of the grant award from NTIA, except that lobbying costs and contingency fees are not reimbursable from SLIGP funds.



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.

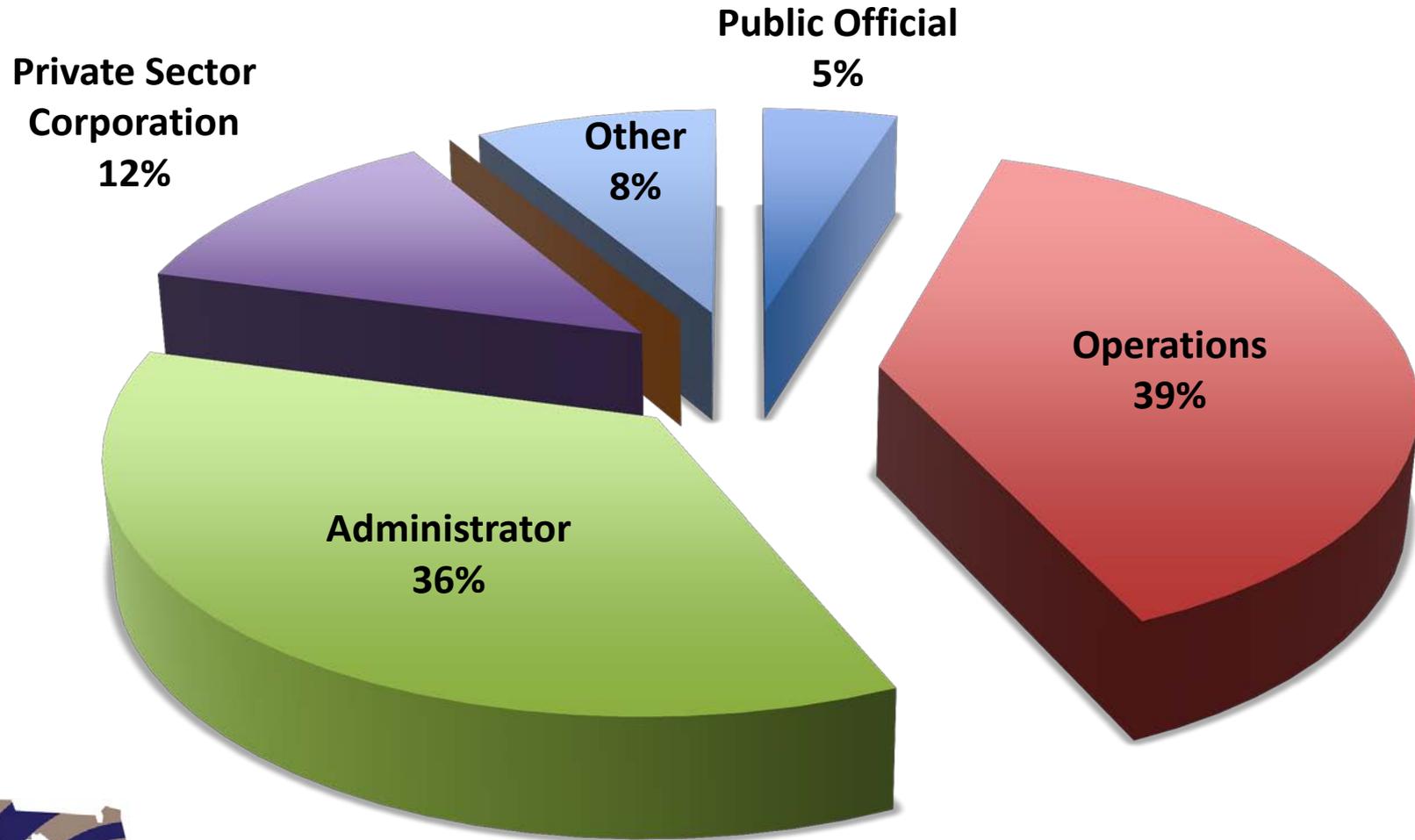


FloridaNet Progress to Date

- \$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

Your Affiliation

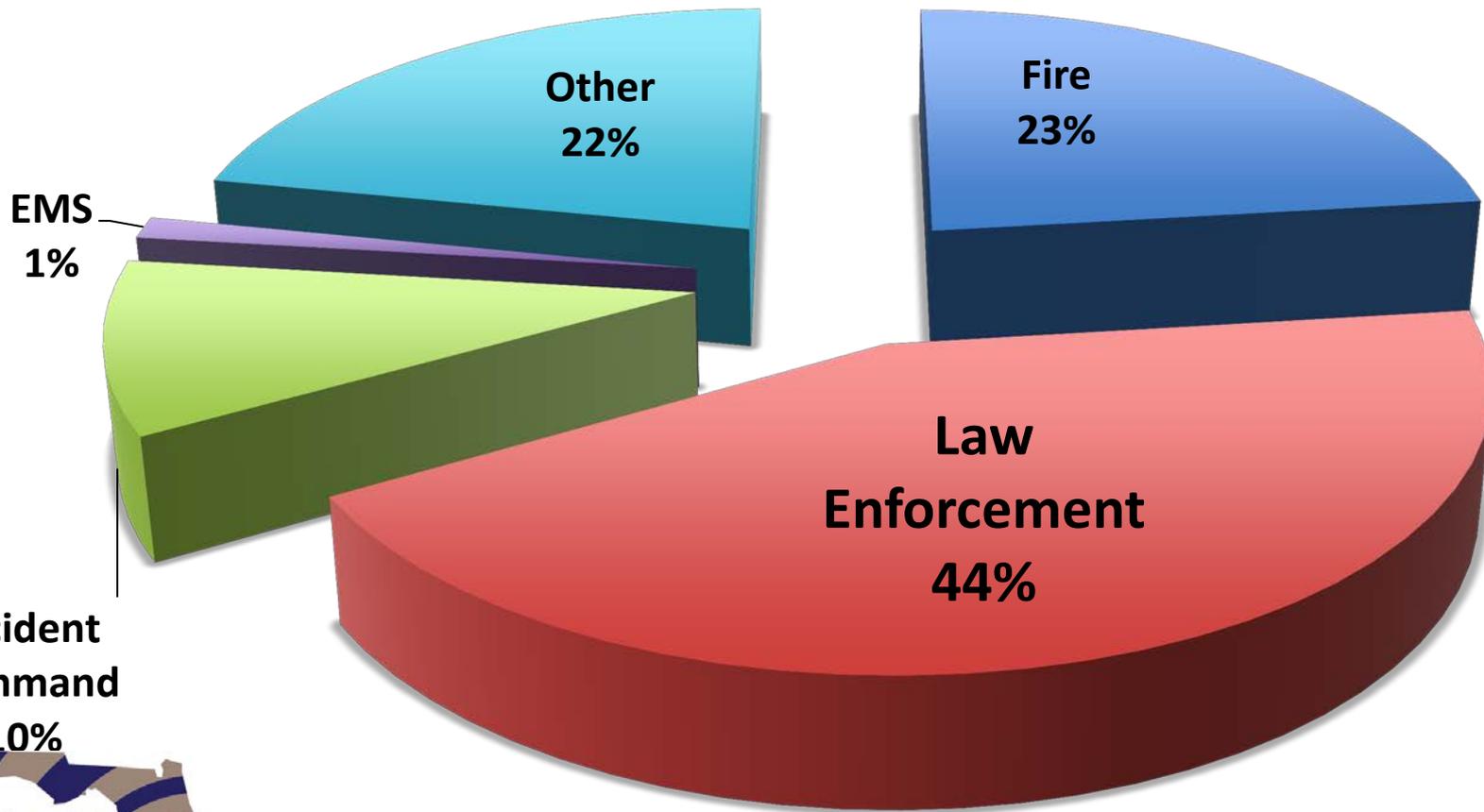
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A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14

If You're a FIRST RESPONDER...What Best Describes Your Function?

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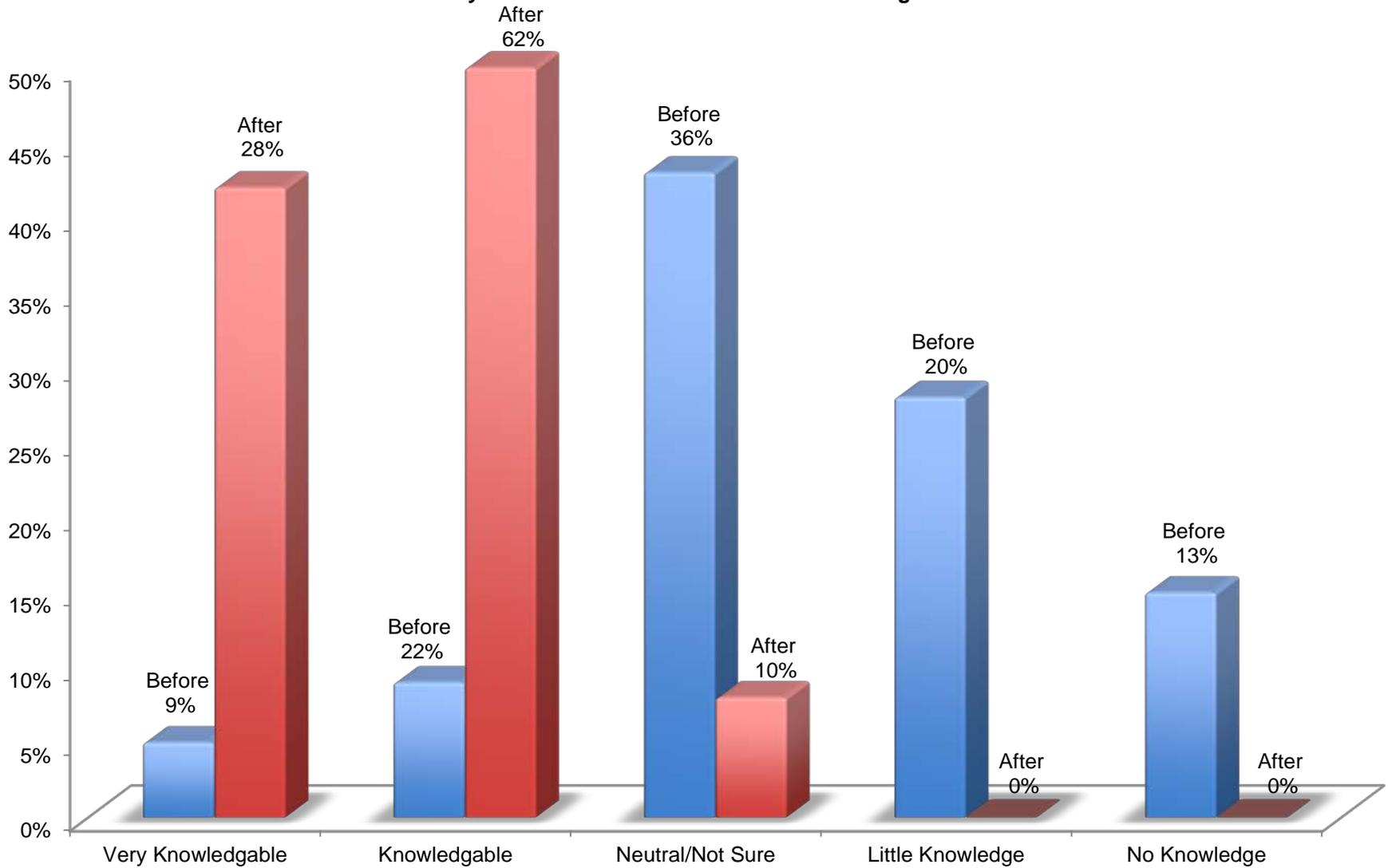


A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14



Attendee Knowledge of FloridaNet

Survey conducted before and after each listening session





Next Steps

- Starting formal consultation with FirstNet
- Holding a 2nd Round of Statewide workshops to gather broadband coverage needs and priority users (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)



FloridaNet Today

Deliverables in Phase I

1. Established a governance structure for Florida efforts – **(complete structure/evolving)**
2. Developing procedures to engage local and tribal governments – **(underway)**
3. Creating and implementing education and outreach process – **(completed design/ongoing)**
4. Identifying potential FirstNet users and coverage issues – **(next step/workshop design underway)**
5. Developing MOA to work with locals, tribes, private sector, and identifying barriers – **(under design)**

Additional Deliverables in Phase II

6. Develop staffing plan for the effort – **(long-term)**
7. Enhance Statewide Communications Interoperability Plan (SCIP) to address broadband – **(completed revision/evolving)**

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

June 2014





Introduction to FirstNet

- 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 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 a State and Local Implementation Grant (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 System (SLERS).
- 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,

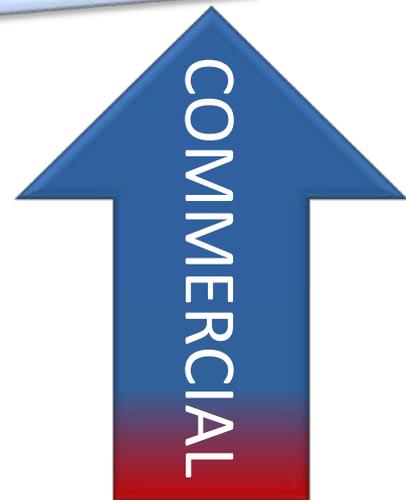
NO COMMERCIAL PARALLEL TO FIRSTNET



- **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





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

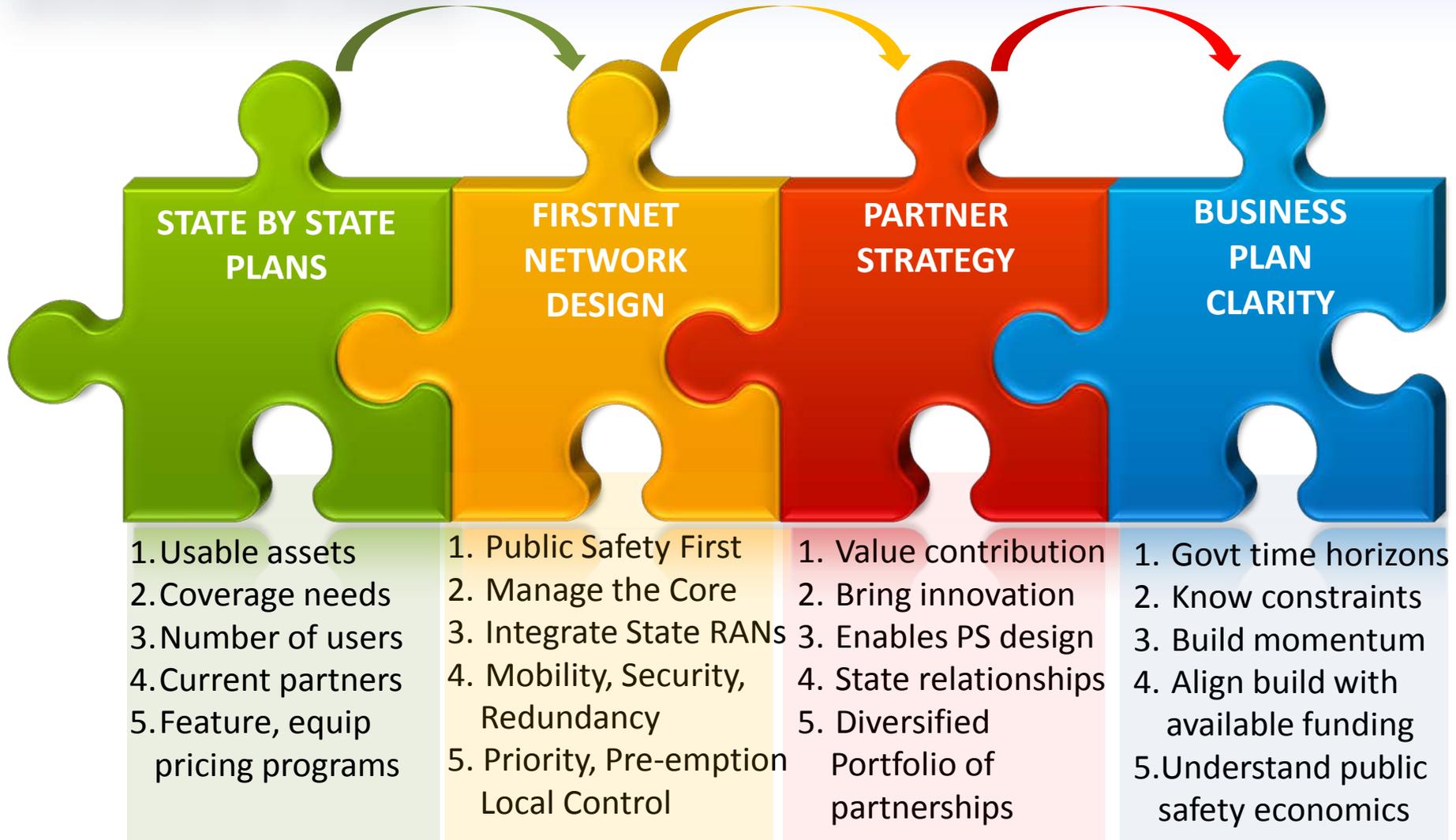
Public Safety Grade

- Reliable
- Hardened
- Redundant
- Security

Public Safety Applications

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

BUSINESS PLAN



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

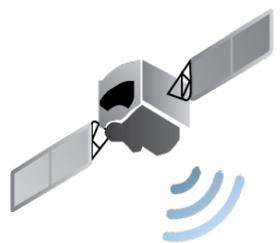
FirstNet,
Federal, State,
Stakeholder
Asset Partner(s)

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

Preferred path(s)

GEOGRAPHIC COVERAGE PRIORITY

Multiple network coverage solutions operating across 5 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% Florida Rural Pop. 9.7% US Urban/Suburban Pop 80.7% Florida Urban/Suburban 90.3%

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

COMPLIMENTING 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

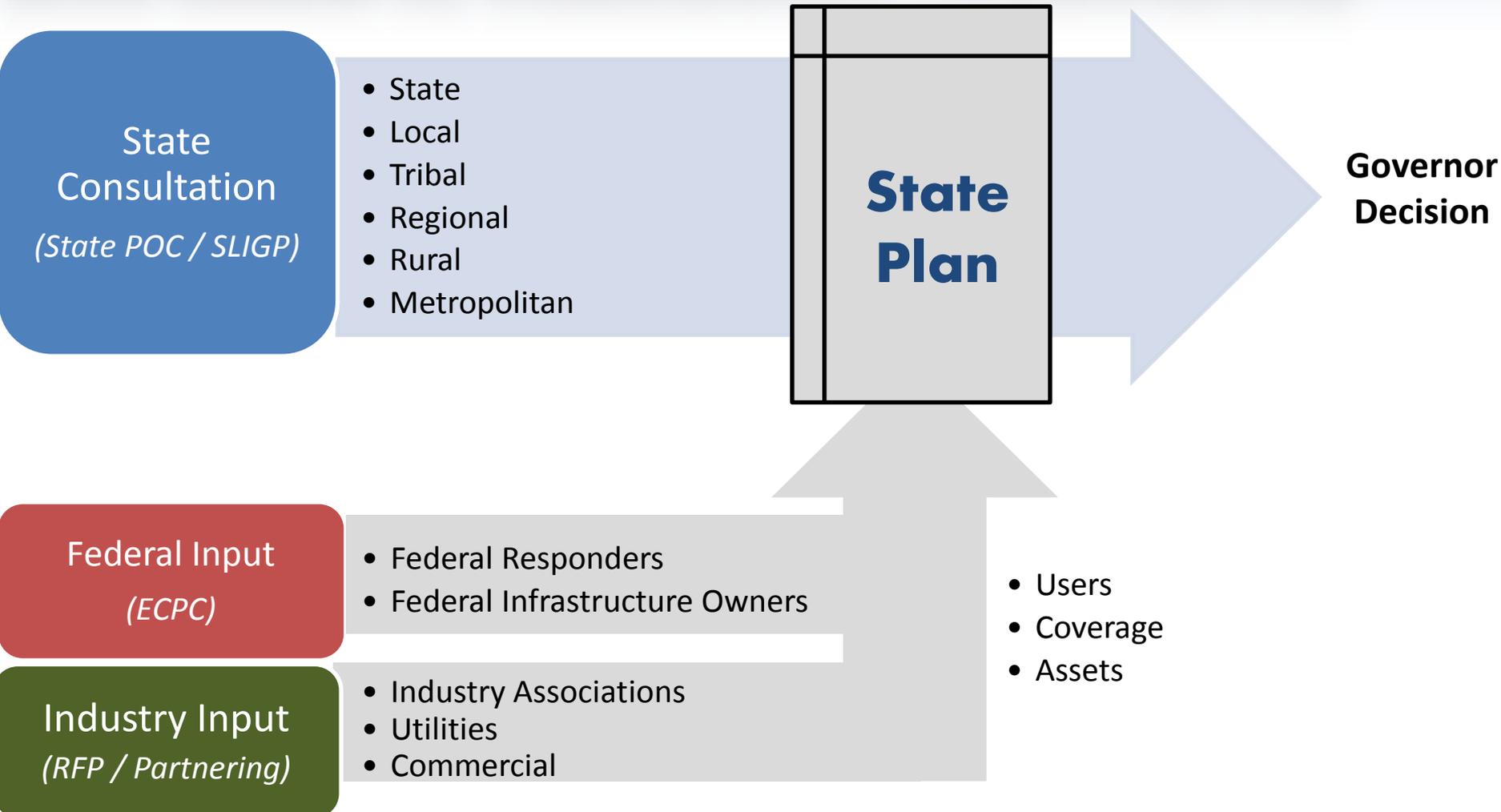


OVERVIEW OF CONSULTATION PROCESS

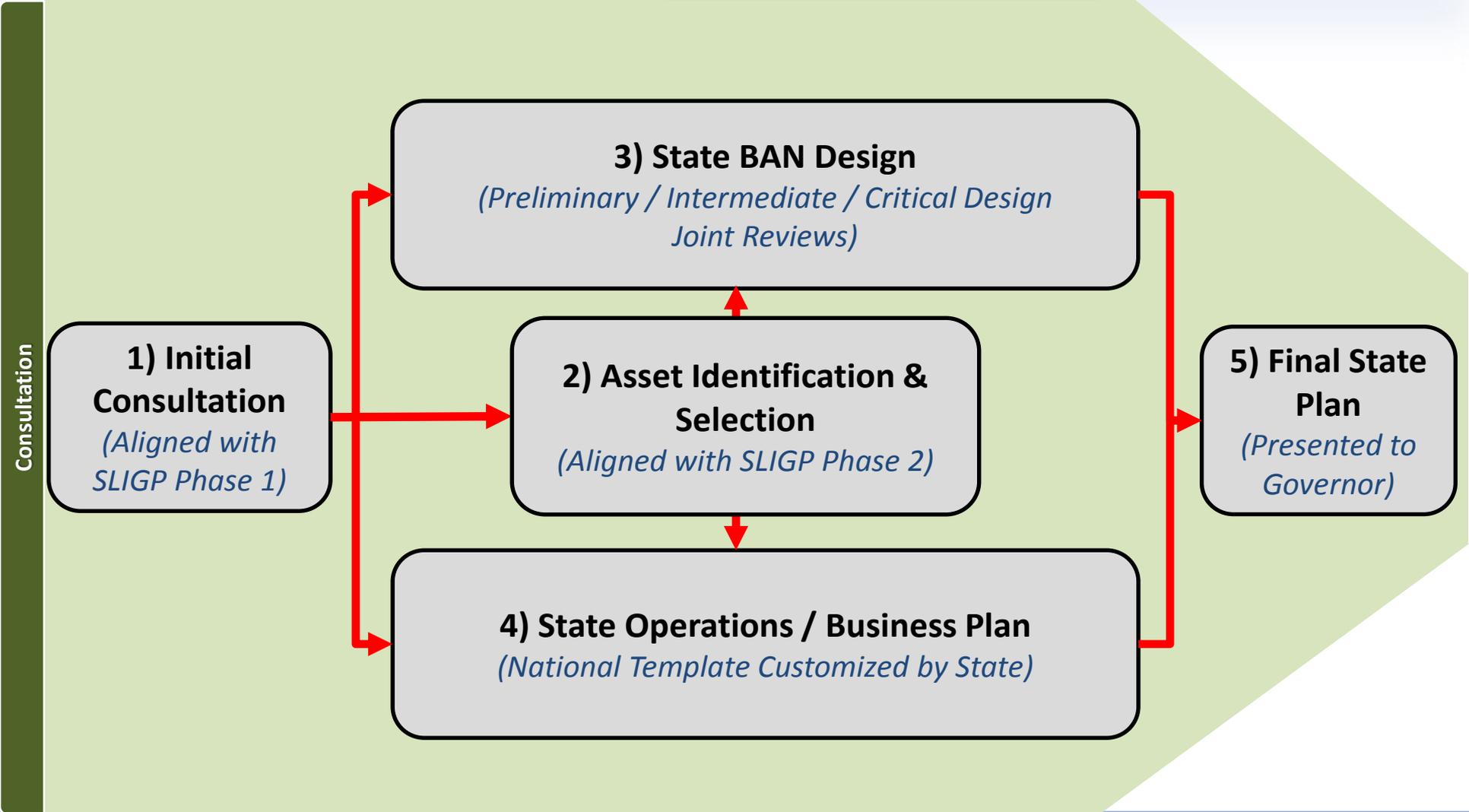
- **Consultation is an active process, not a single event.** FirstNet will collaborate and partner with stakeholders in a meaningful consultation process.
- **FirstNet will communicate the consultation process and necessary roles and responsibilities.** It will be clear to the stakeholders what the process 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 have engaged in a process that provides meaningful and thorough information for the State Plans.

WIDE RANGE OF STAKEHOLDER CONSULTATION

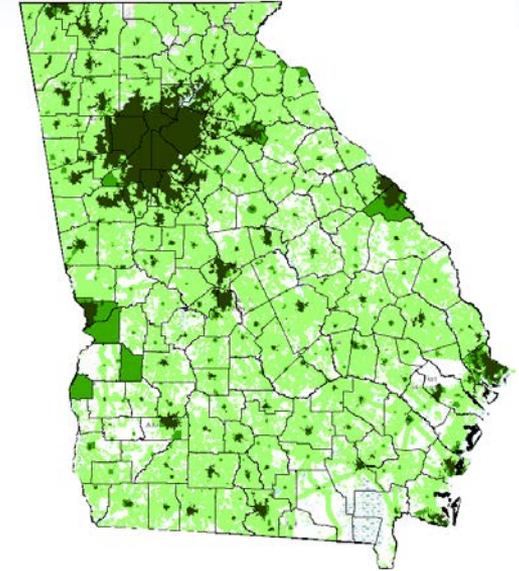


DEFINING THE PROCESS



DEFINING COVERAGE OBJECTIVES

- FirstNet will provide a GIS map 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



2 - ASSET IDENTIFICATION & SELECTION

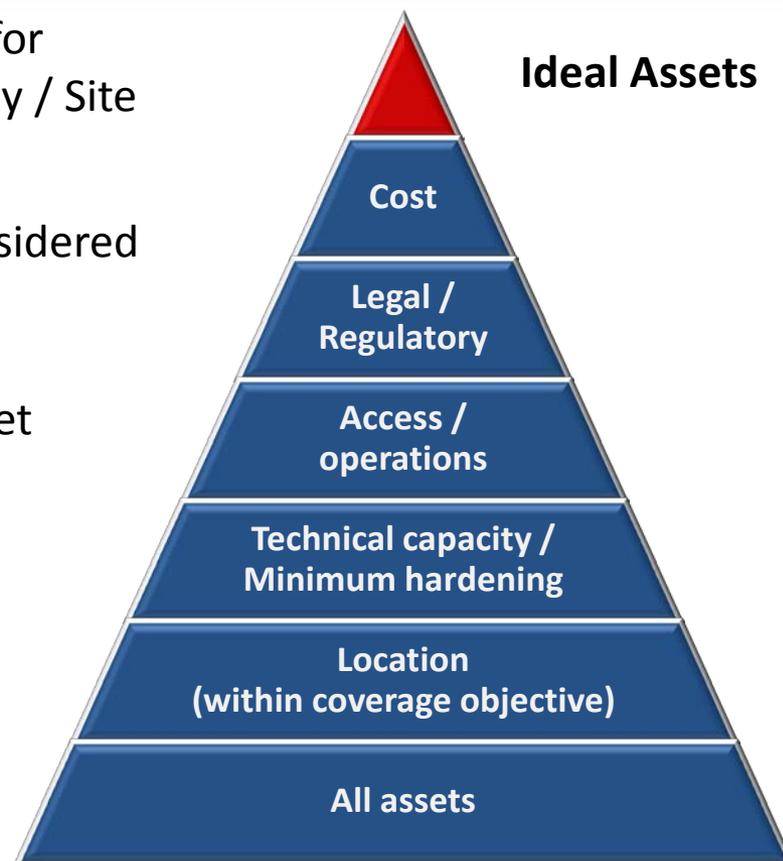
(Aligned with SLIGP Phase 2)

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 & 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





Key Understandings

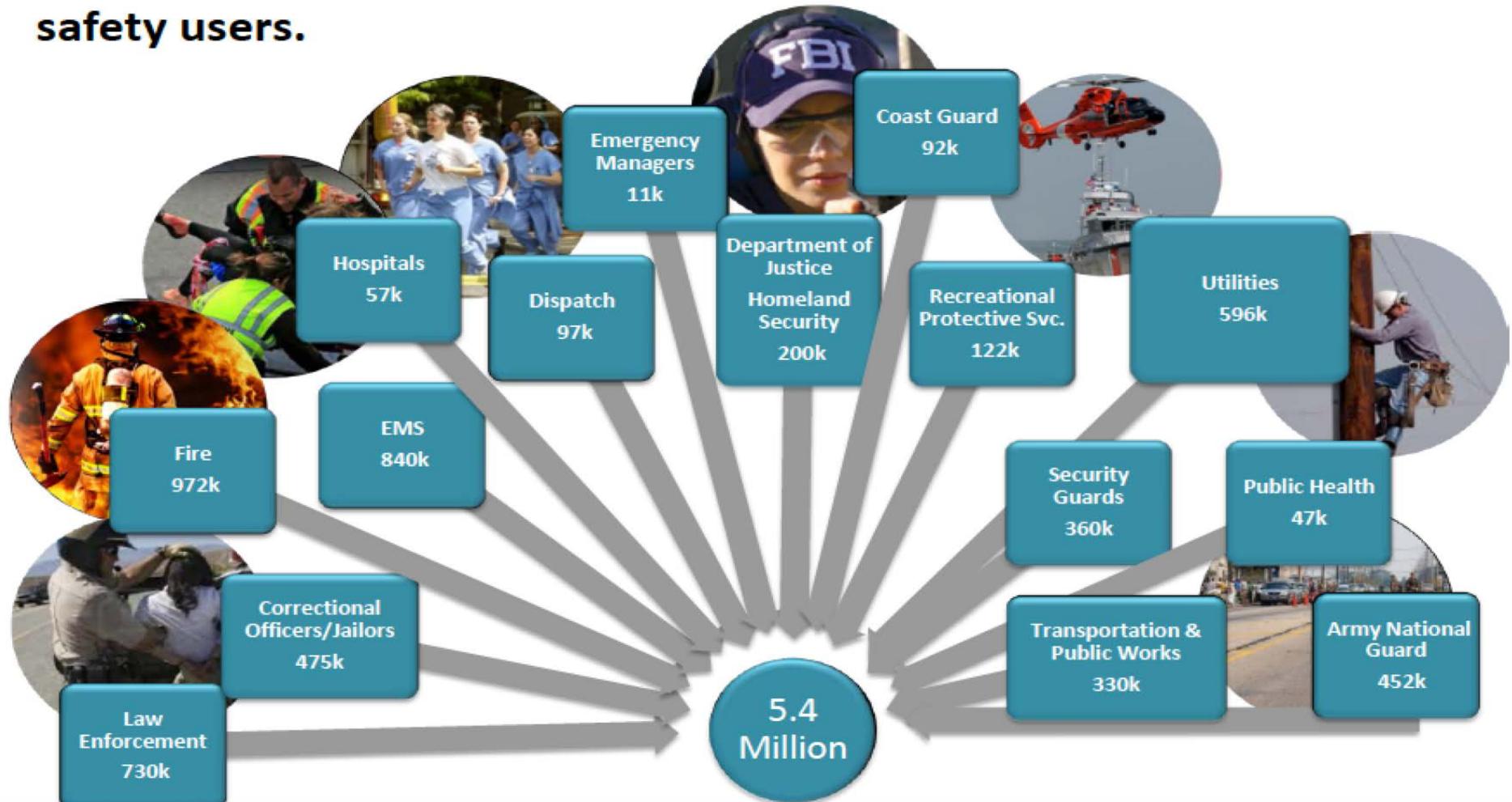
- Given the spectrum's value, excess capacity will be leased to the commercial sector to underwrite the public safety build-out.
- This will facilitate FirstNet partnering with the private sector but does not require piggy-backing on the private sector network.
- FirstNet will be a dedicated service.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



Key Understandings

VISION & GUIDING PRINCIPLES

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





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 RAN.

Tribal Outreach

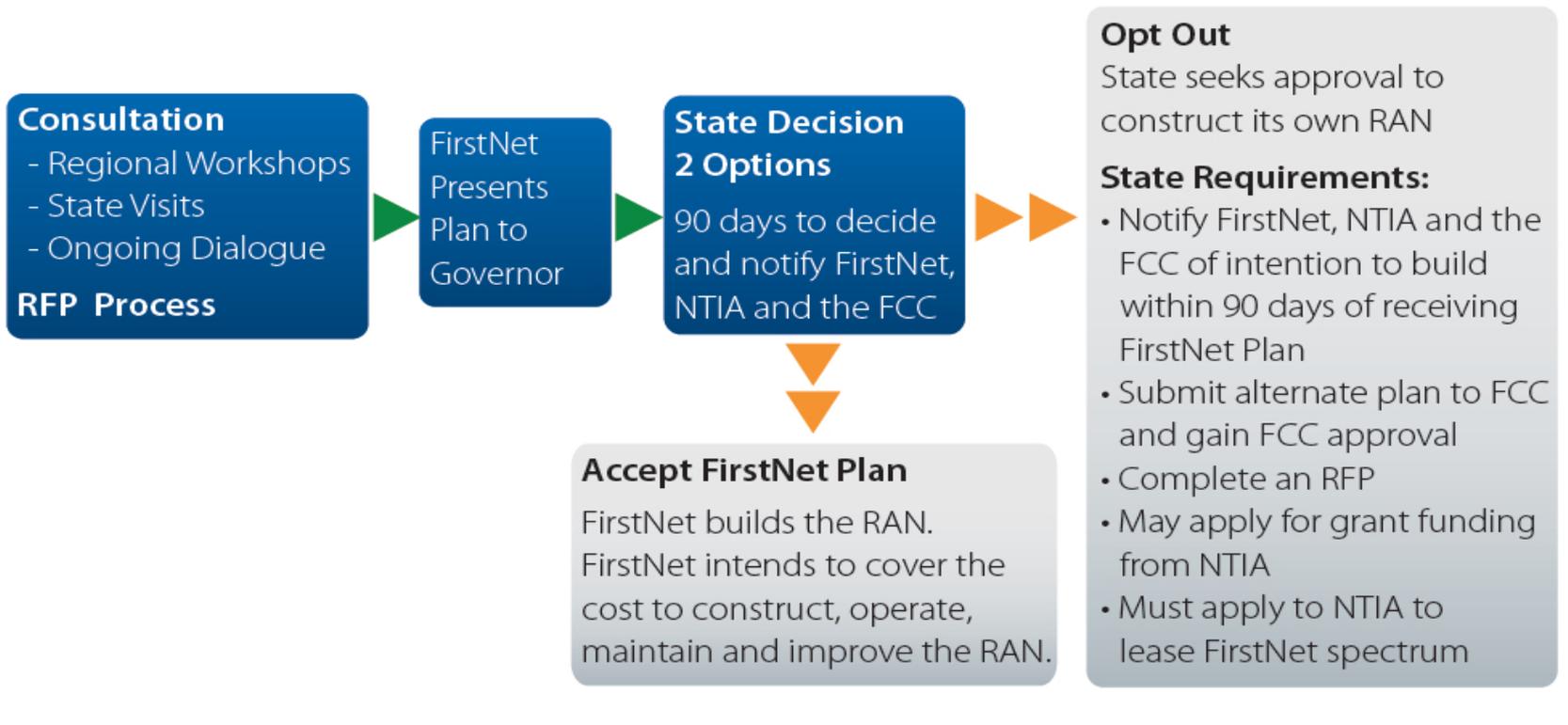
- FirstNet has created an education and outreach program to engage tribal members in discussions about the network and their public safety needs.
- FirstNet encourages state governors to include tribal nations in the local FirstNet consultation process.



State Decision Process

State Decision Process

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





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 Data Sharing

June 2014





Gathering the Data

During Phase 1 of the State and Local Integrated Grant Program Grant (SLIGP) FloridaNet will gather the following types of public and private sector information:

1. Usable assets
2. Coverage needs
3. Number of users
4. Current partners
5. Features, equipment, and pricing programs



Secure Data Handling

FloridaNet is developing data portals to ensure the integrity and security of the data collected

- By recommendation of an interim working group of the Technical Committee, 2 public-sector data portals and 1 private sector portal will be developed
 - One for local partners to review and share data with FloridaNet
 - A second for an designated interim working group to review and compare FloridaNet data with FirstNet data
 - The private sector data will be handled separately, under terms developed with the Public-Private Partnership Committee

FloridaNet

How to stay connected.

June 2014





What is FloridaNet?

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:

- 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
- Provide appropriate forums for FirstNet issues



Our Tweets

Tweets

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FloridaNet
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5 Jun

Our Florida reps at the #PSCR conference in front of a mobile cell tower #FirstNet
pic.twitter.com/9eV2QtKsTL

Show Photo



FirstNet
@FirstNetGov

4 Jun

Tweet to @FLFirstNet

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Introduction to FloridaNet.gov

As the FloridaNet evolves, you will 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



TWEETS
40

PHOTOS/VIDEOS
3

FOLLOWING
15

FOLLOWERS
95

More ▾

FloridaNet

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3 Photos and videos



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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Create Page

FloridaNet
16 likes · 9 talking about this

Like Follow

Government Organization
Provide statewide leadership for FirstNet implementation in Florida.

About - Suggest an Edit

Next Steps

- Further will provide additional guidance (e.g. Business Plan, MDA)
- Further team will meet with FloridaNet Executive Board to subscribe to coming month
- Further will proceed with coverage agreements and state-wide meetings with local first responder network
- Florida is the only state including private sector partners in the discussion

16 Likes

Highlights

Post Photo / Video

Be the first to write something on FloridaNet...

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>

FloridaNet
October 10, 2013



Summer 2014 Workshops On Broadband Coverage

Regional Workshops on Broadband coverage will be held in the Summer of 2014

The workshops will:

- Provide for local input into broadband coverage by the 7 Domestic Security Task Force Regions – the regional model we are using for FloridaNet coordination.
- Introduce the survey elements FloridaNet will be collecting for FirstNet
- Provide an update on FloridaNet planning progress



Fall 2014 Workshops

Third Round of Local Input

Regional Workshops to gather additional input will be held in the Fall of 2014

The workshops will:

- Provide an update on FloridaNet planning progress
- Provide for additional local input
- Share the results of previous broadband coverage efforts and get additional local input
- Provide available thinking design elements for FloridaNet and seek local input