



FirstNet™



Initial Consultation Meeting with the State of Florida

Working together to bring broadband to Public Safety in Florida



**December 12, 2014
Tallahassee, Florida**



Agenda – Florida Initial Consultation



Time	Agenda Item
8:00	Welcoming Remarks
8:05	Open Public Comments
8:35	Introductions
	FirstNet Update & Consultation Process
	State Update
Noon	Lunch
1:00	User Discussion
	Coverage Discussion
	Wrap-up & Next Steps
4:30	Adjourn



Welcome & Introductions

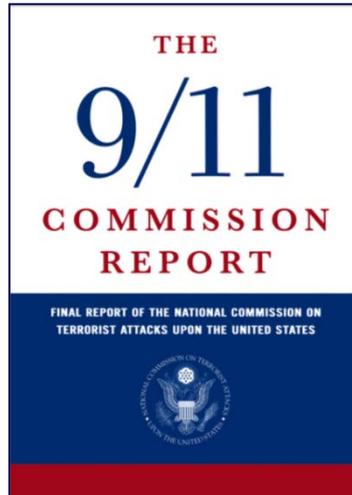


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Our History & Mandate



2004



2011

Associations Supporting D-Block Reallocation

<i>National Governors Association</i>	<i>National Criminal Justice Association</i>
<i>National Association of Counties</i>	<i>National Association of Police Organizations</i>
<i>National League of Cities</i>	<i>National Volunteer Fire Council</i>
<i>United States Conference of Mayors</i>	<i>National Troopers' Coalition</i>
<i>Council of State Governments</i>	<i>National Organization of Black Law Enforcement Executives</i>
<i>International City/County Managers Association</i>	<i>Association of Air Medical Services</i>
<i>National Conference of State Legislatures</i>	<i>Advocates for Emergency Medical Services</i>
<i>International Association of Chiefs of Police</i>	<i>Emergency Nurses Association</i>
<i>International Association of Fire Chiefs</i>	<i>National Association of Emergency Medical Services Physicians</i>
<i>National Sheriffs' Association</i>	<i>National Association of Emergency Medical Technicians</i>
<i>Major Cities Chiefs Association</i>	<i>National Association of State Emergency Medical Service Officials</i>
<i>Metropolitan Fire Chiefs Association</i>	<i>National Association of Emergency Medical Services Management Association</i>
<i>Major County Sheriffs' Association</i>	<i>American Probation and Parole Association</i>
<i>Association of Public-Safety Communications Officials</i>	<i>National Association of Regional Councils</i>
<i>National Emergency Management Association</i>	
<i>International Association of Emergency Managers</i>	
<i>Police Executive Research Forum</i>	

“Recommendation: Congress should support pending legislation which provides for the expedited and increased assignment of radio spectrum for public safety purposes....”

Middle Class Tax Relief and Job Creation Act of 2012

"The First Responder Network Authority shall hold the single public safety wireless license...and take all actions necessary to ensure the building, deployment, and operation of the nationwide public safety broadband network"

First Responder Communications



Non-Mission Critical

The Current State

Mission Critical

Commercial LTE Service / Devices



Data

Voice

Land Mobile Radio (LMR) for Public Safety



Voice

First Responder Communications



Non-Mission Critical

The Near-Term Vision

Mission Critical

FirstNet will provide emergency responders with the first nationwide, high-speed, wireless broadband network dedicated to public safety

 **FirstNet™ LTE Service / Devices**



Data

Voice

Land Mobile Radio (LMR) for Public Safety



Voice

Leveraging an Evolving Landscape



Aggregate LTE Coverage 2Q 2014

Network Intelligence Provided By

All coverage illustrated is derived from public information provided by terrestrial mobile operators. Not all operators choose to market coverage information. Standards for coverage representation vary among operators. Mosaik Solutions provides no warranty to the accuracy of the data. Analysis reflects 2010 U.S. Census Data.

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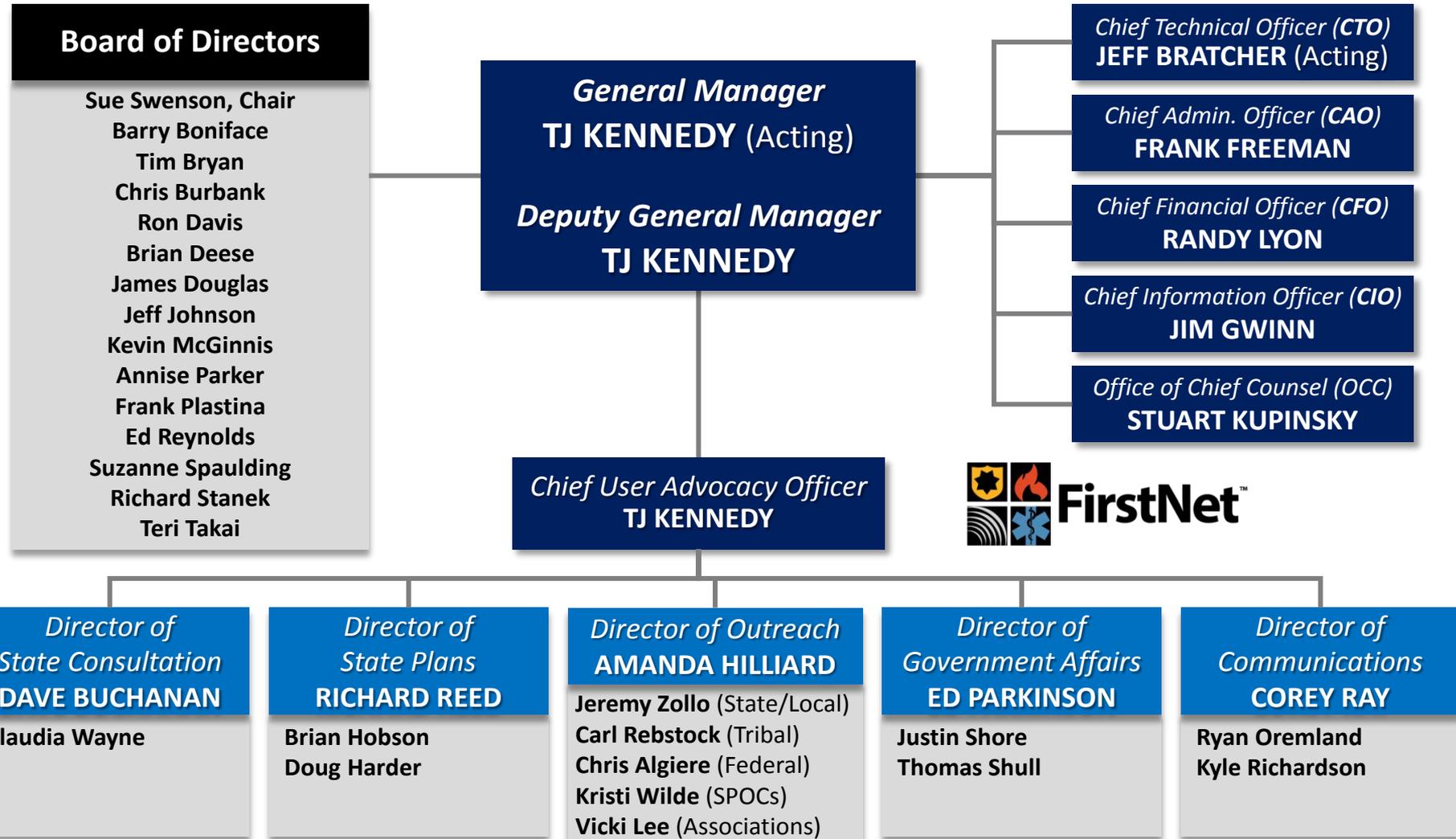
Benefits of Leveraging Industry

- Existing Infrastructure
- Global Standard
- Economy of Scale
- Built & Maintained

Public Safety Requirements

- Dedicated Spectrum
- Hardened Infrastructure
- Specialized Devices
- Cyber-Security
- Public Safety Applications

FirstNet Organization



FirstNet Organization



Chief User Advocacy Officer
TJ KENNEDY



Director of State Consultation
DAVE BUCHANAN

Claudia Wayne

Director of State Plans
RICHARD REED

Brian Hobson
Doug Harder

Director of Outreach
AMANDA HILLIARD

Jeremy Zollo (State/Local)
Carl Rebstock (Tribal)
Chris Algiere (Federal)
Kristi Wilde (SPOCs)
Vicki Lee (Associations)

Director of Government Affairs
ED PARKINSON

Justin Shore
Thomas Shull

Director of Communications
COREY RAY

Ryan Oremland
Kyle Richardson

Outreach and Communications



- FirstNet.gov website
 - Fact Sheets
 - Blogs
 - Presentations
 - Upcoming speaking engagements and current events
 - Board meeting materials and webcast

- Social media presence

 Twitter (@FirstNetGov)

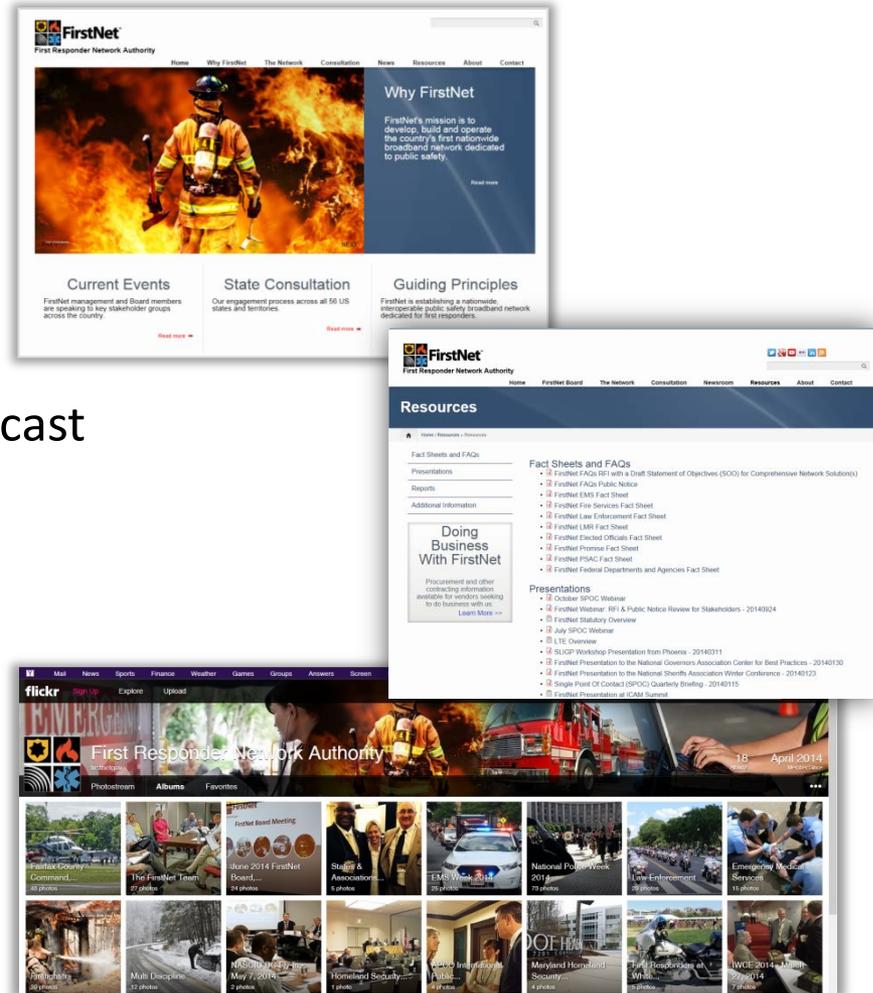
 Google+ (+FirstNetGov)

 YouTube (FirstNetGov)

 Flickr (FirstNetGov)

 LinkedIn

 RSS Feeds



FIRSTNET UPDATES



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Understanding Our Boundaries



FirstNet Mandates Under the Act

Understanding the Playing Field



Legislation

Public Safety
Entity
(Eligible Users)

Management /
Independent
Authority

RFPs

Standards

Consultation

Secondary
Users

National
Architecture

Rural Coverage
Consideration

Contracts

Commercial
Infrastructure

Promote
Equipment
Competition

Opt-In

Roaming

PSAP

National
Security
Coverage
Considerations

Cybersecurity

Public
Infrastructure

Priority /
Preemption

State Plan

Maintenance &
Upgrade

Certified
Equipment List

PSAC

Training

Other(s) as
Needed

Defining Responsibilities and Duties

Funding

Building an Affordable, Self-Sustaining Network



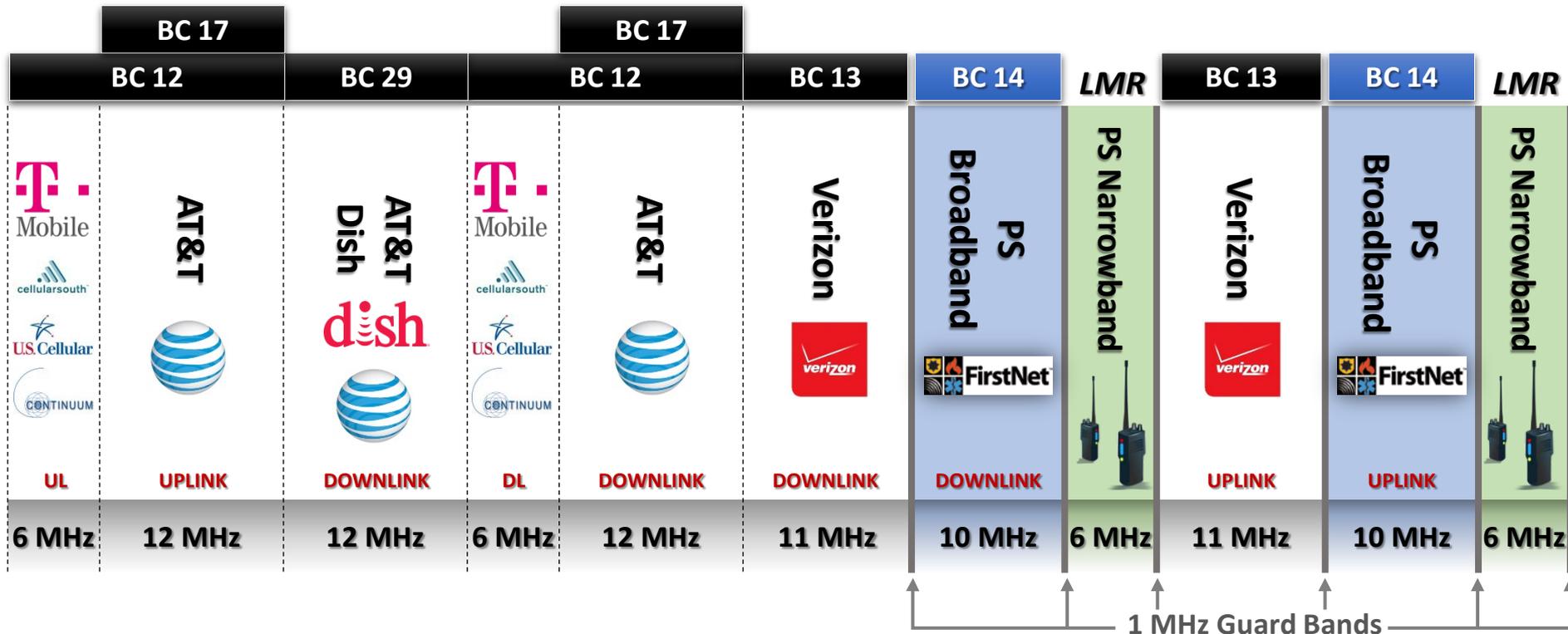
- The network is to be self-sustaining
- Planning and implementation funding is provided through spectrum auctions
- Funds available until Sept 30, 2022; unused funds revert to the Treasury

Phase	Funds	Purpose
Planning	\$135 Million	Grants to assist States/Territories with planning & implementation
Implementation	\$7 Billion	\$2 Billion provided to start planning, designing and early implementation Remaining \$5 Billion from spectrum auctions
Growth / Sustainment	Ongoing	1. Network User Fee (Service Plan) 2. Lease Fee for Excess Network Capacity 3. Core Network Access Fee 4. Lease Fee for Network Equipment / Infrastructure

700 MHz Landscape



- FirstNet is the license holder for Public Safety's Broadband allocation – **Band Class (BC) 14**
- Commercial Carriers also operate in several bands outside of 700 MHz



Revenue, Architecture & Priority



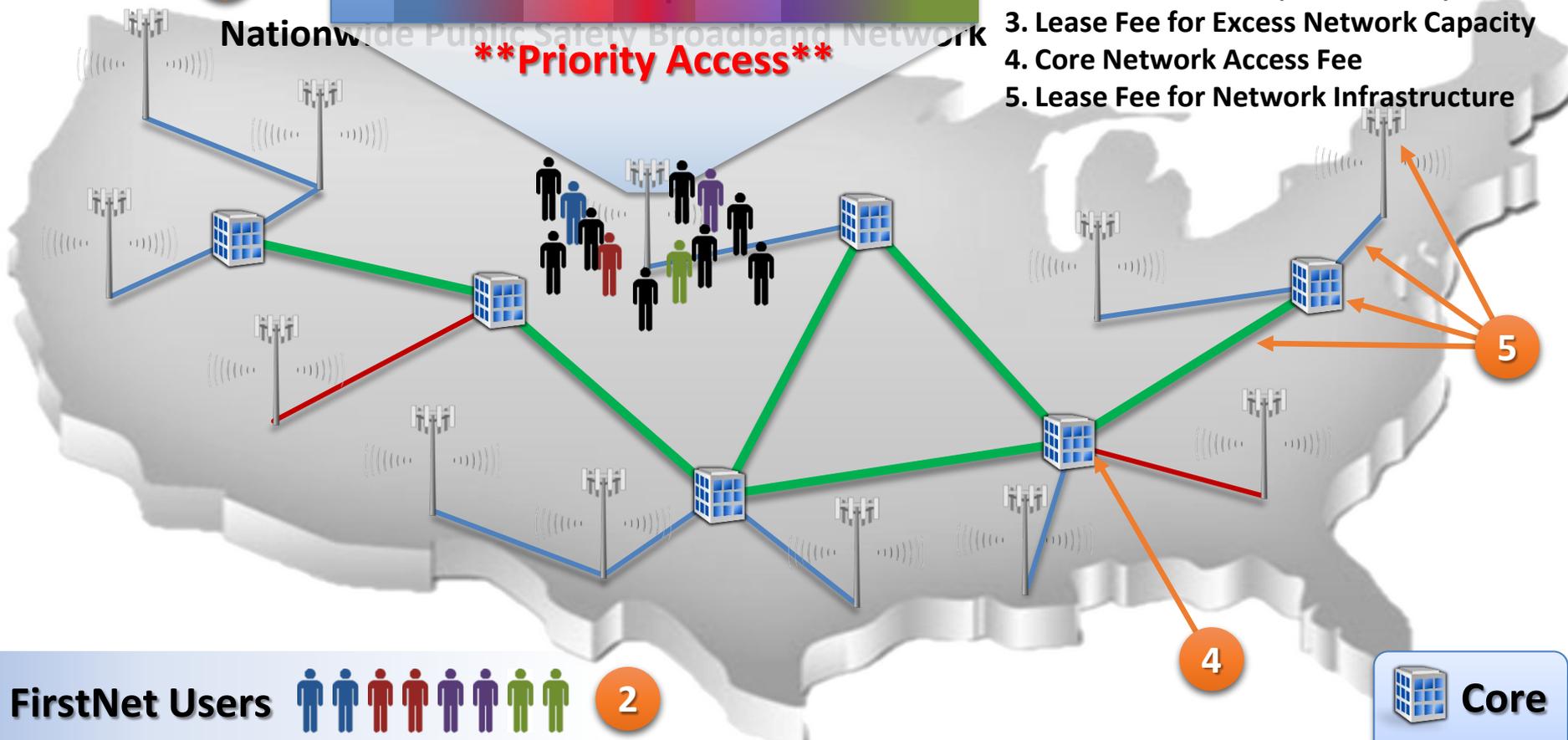
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FirstNet Spectrum
Nationalwide Public Safety Broadband Network

****Priority Access****

1. \$7B Initial Funding from Auction Proceeds
2. Network User Fee (Service Plan)
3. Lease Fee for Excess Network Capacity
4. Core Network Access Fee
5. Lease Fee for Network Infrastructure



FirstNet Users 

2

Commercial Customers
of Secondary User



3

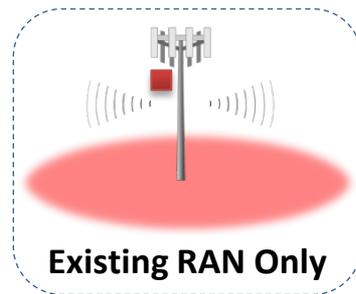
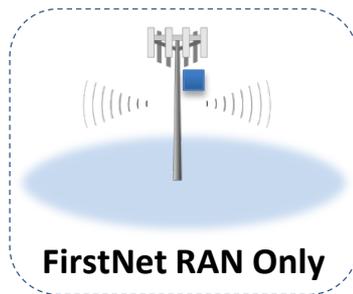
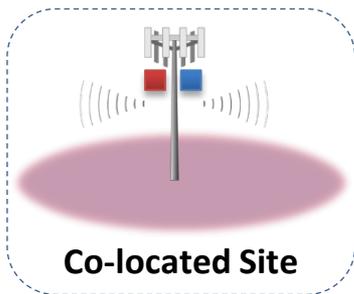
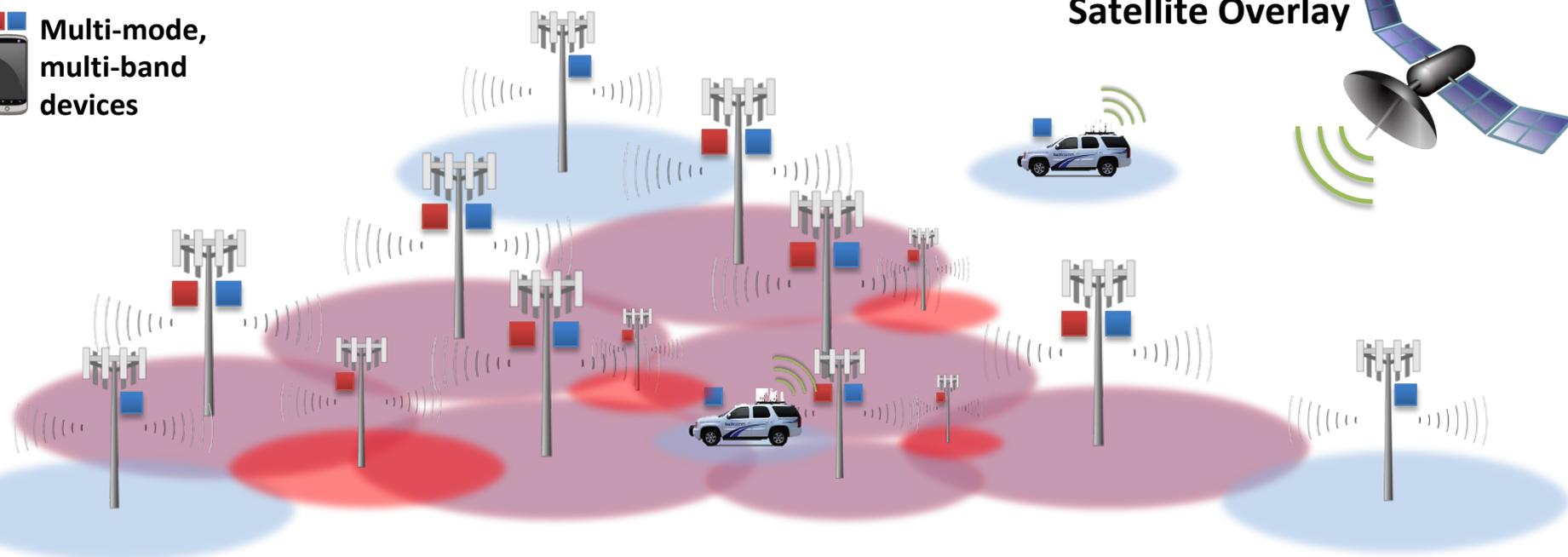
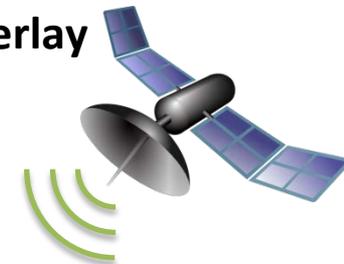
 Core
 RAN

Conceptual Design Approach



 Multi-mode, multi-band devices

Satellite Overlay



 = FirstNet RAN (Band 14)
 = Existing RAN (Band ??)
 = Satellite Overlay

Objective: Identify current market capabilities and best practices

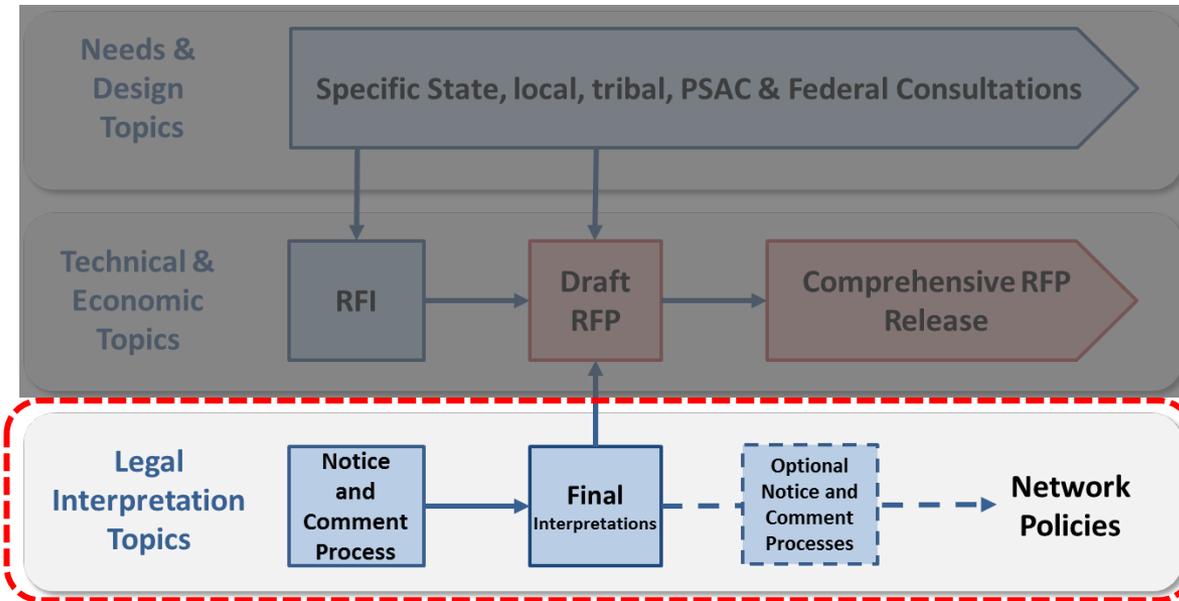
- FirstNet has held meetings with vendors following a methodical and rigorous process
- FirstNet provides guidance on Doing Business with FirstNet website page
 - Note: FirstNet has temporarily suspended accepting new requests



Public Notice & Comment



Acquisition



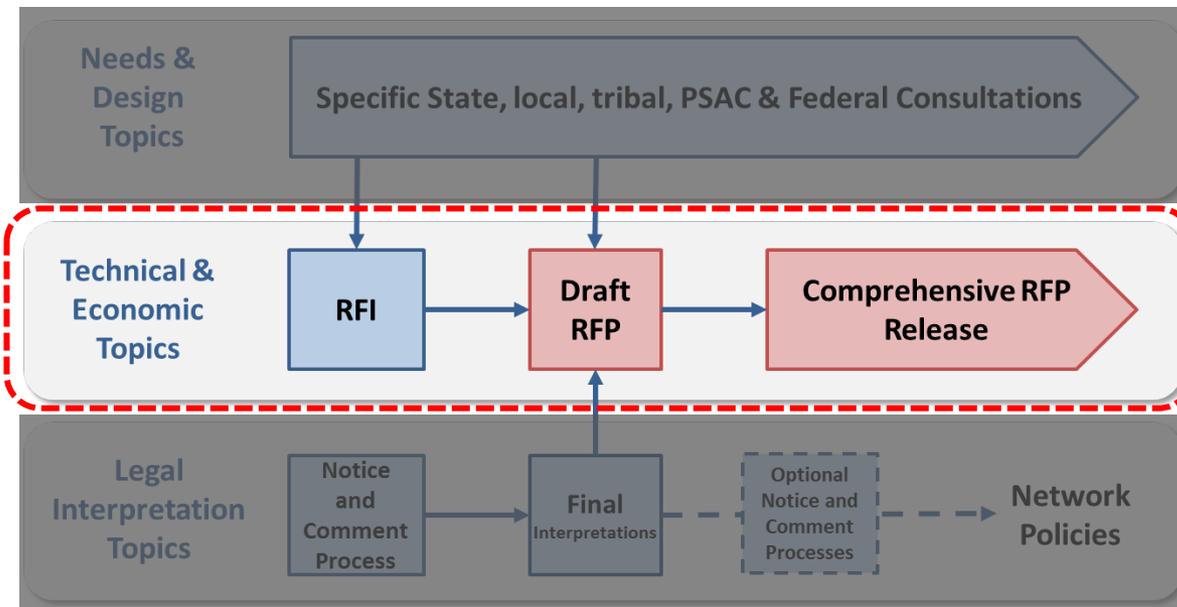
Highlights:

- Comment Period: 9/24/14 – 10/27/14
- 63 responses received
- Allows inputs from broad stakeholder group
- Open & transparent process
- All responses posted on www.regulations.gov

Request for Information (RFI)/ Statement of Objectives (SOO)



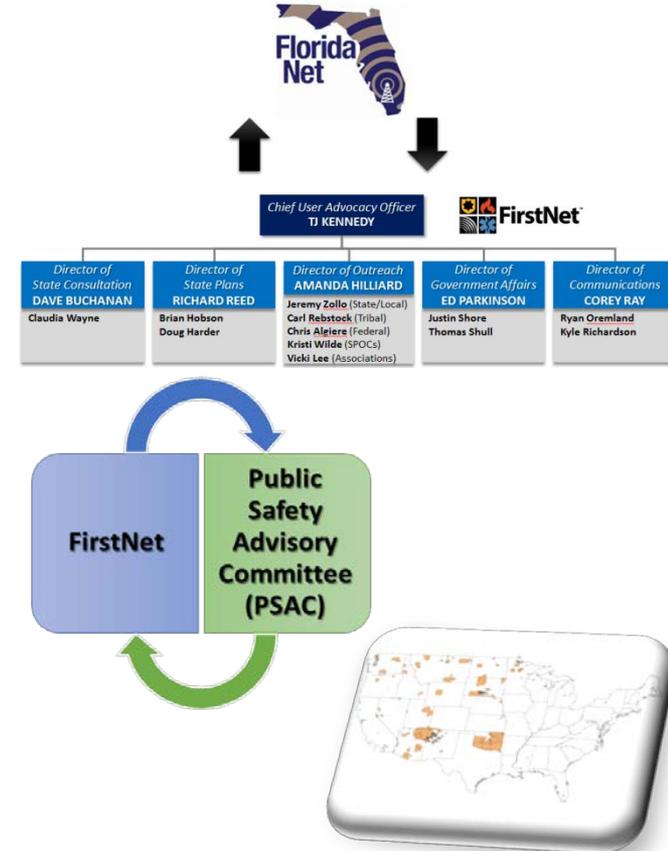
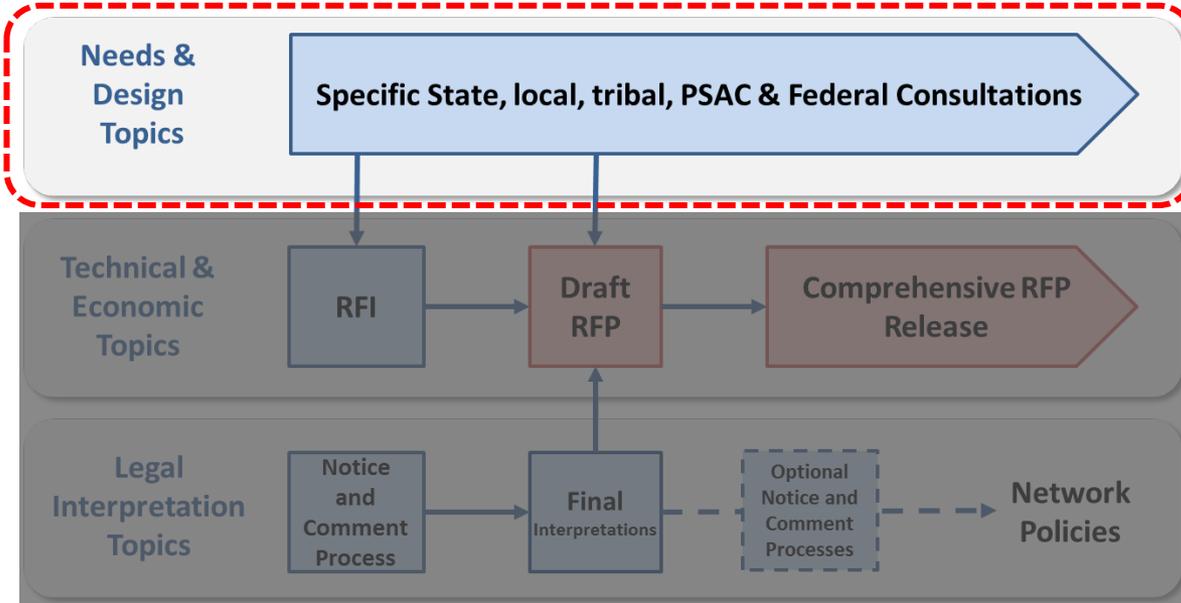
Acquisition



Highlights:

- Comment Period:
9/24/14 – 10/27/14
- 122 responses received
- Does NOT dictate a specific solution
- Identifies objectives to encourage innovation
- Focuses on several key questions
- Informs the FirstNet RFP strategy & requirements

Consultation



Note: Tribal consultation requirements under the National Historic Preservation Act will be addressed separately.



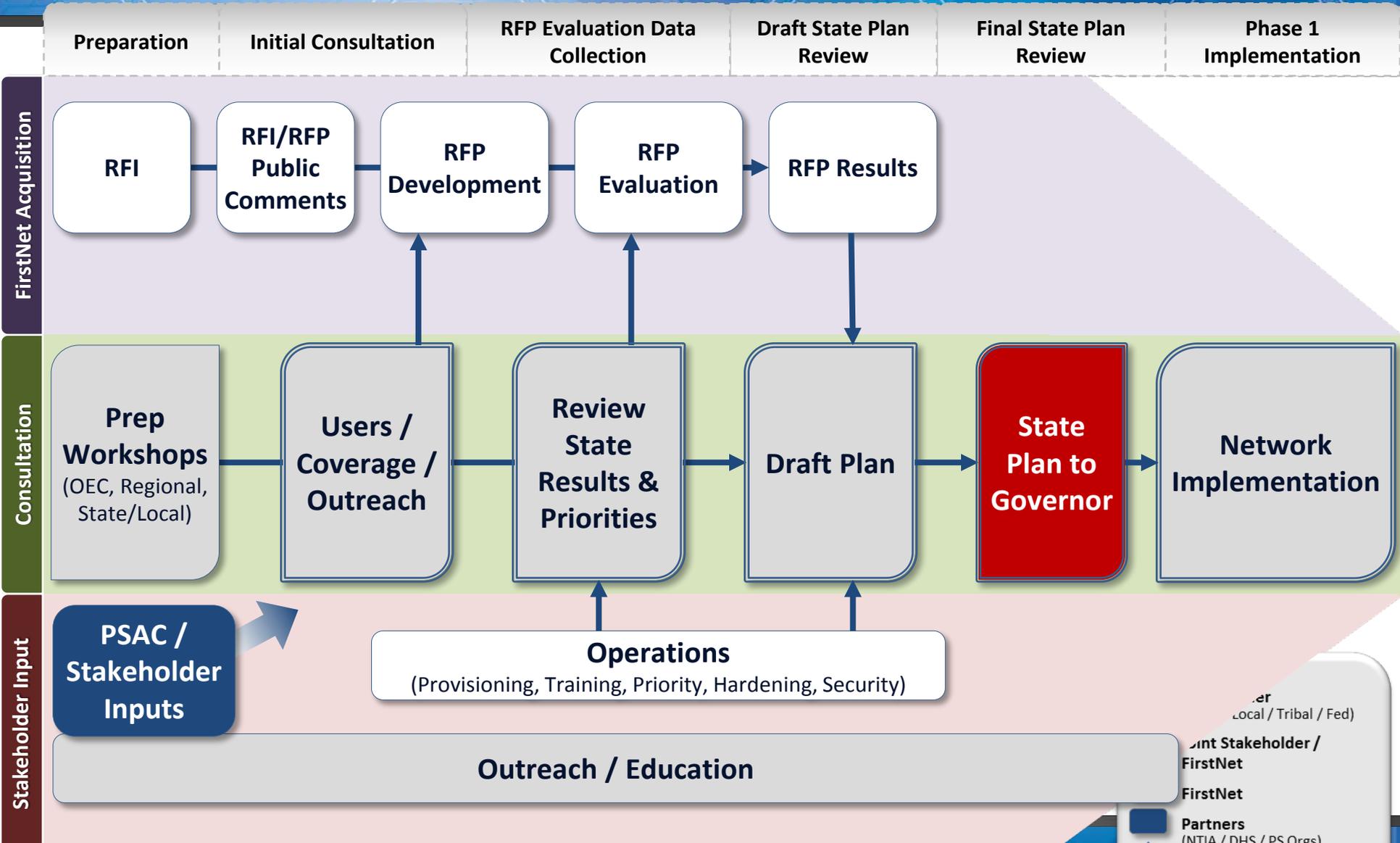
Mandatory Elements for State Planning



- Construction of a Core and RAN build out
- Placement of towers
- Coverage areas of the network
- Adequacy of hardening, security, reliability, and resiliency requirements
- Assignment of priority to local users
- Assignment of priority and selection of secondary users
- Training needs of local users



Updated Consultation Approach



Local / Tribal / Fed)

Joint Stakeholder / FirstNet

FirstNet

Partners (NTIA / DHS / PS Orgs)

NTIA Approval

The State Plan

Bringing Everything Together

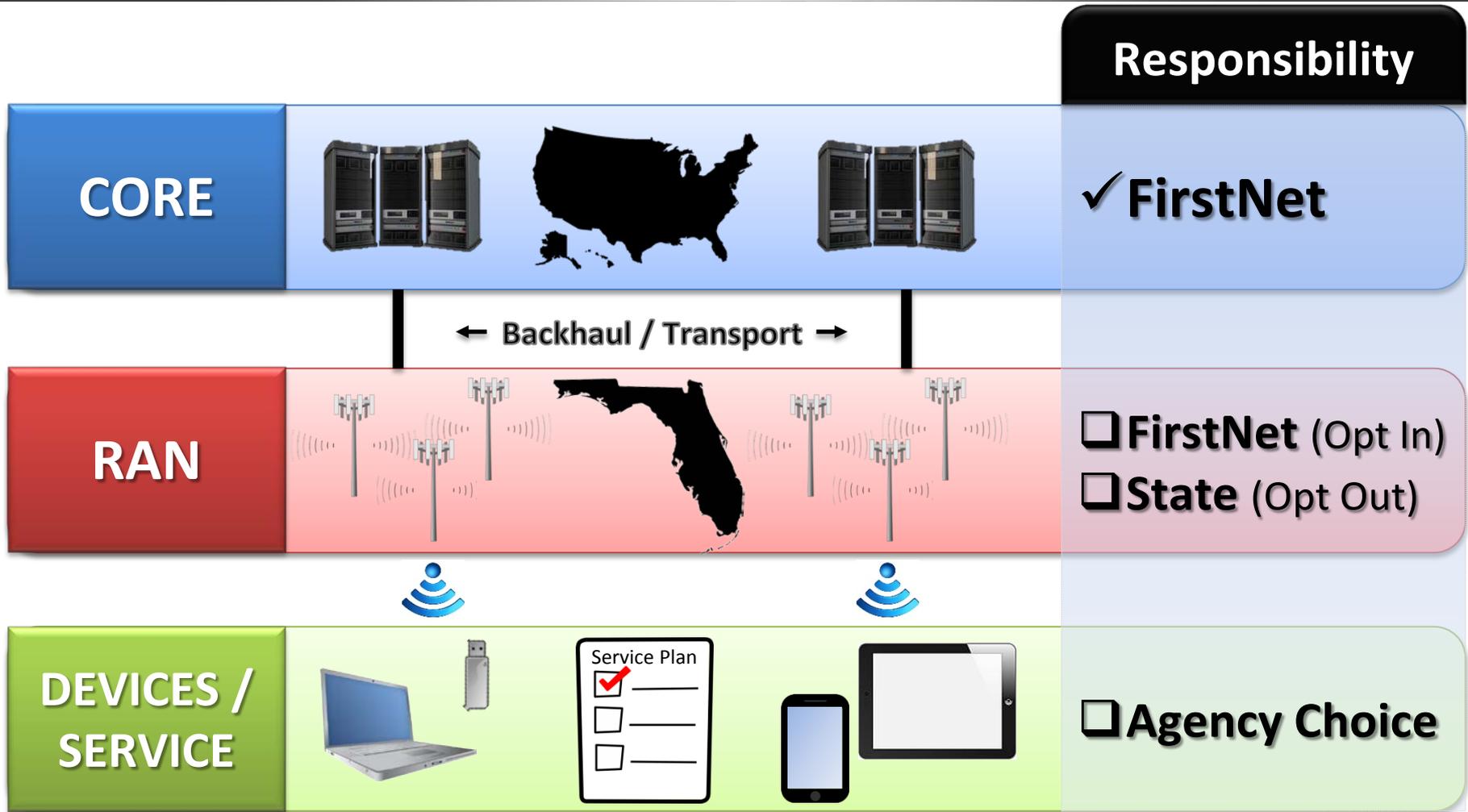


State Plan Requirements

- **Completion of the RFP process**
- **Document proposed build-out in the State**
- **Funding level for the State**



Network Components and Choices





FirstNetTM



FirstNet and Florida are working together to bring wireless broadband to Public Safety