



Initial Consultation Meeting with the State of Nevada

Working together to bring broadband to Public Safety in Nevada



January 7, 2015
Carson City, Nevada



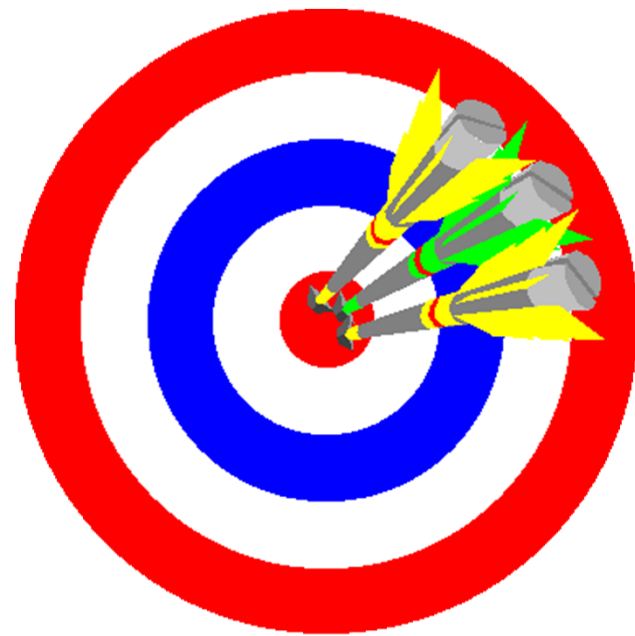
Welcome & Introductions



Initial Consultation Objectives



- Strengthen our relationship with you
- Provide an update on FirstNet activities
- Hear from you about your unique needs and activities
- Discuss next steps



Agenda – Nevada Initial Consultation

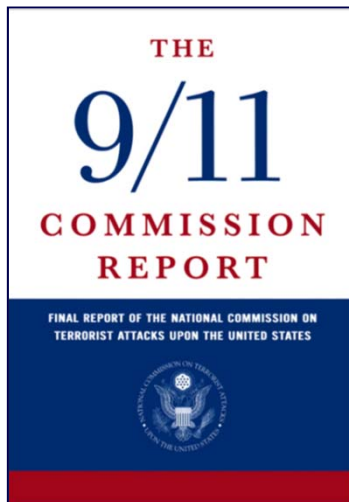


Time	Agenda Item
8:30	Welcoming Remarks
9:00	FirstNet Update & Consultation Process
	State Update
Noon	Lunch
1:00	User Discussion
	Coverage Discussion
	Outreach Discussion
	Wrap-up & Next Steps
4:30	Adjourn

Our History & Mandate



2004



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

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>	

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

January 7, 2015

Photo Source: http://a.abcnews.com/images/Entertainment/Burning_Man_Swar_16x9_992.jpg

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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

January 7, 2015

Photo Source: http://a.abcnews.com/images/Entertainment/Burning_Man_Swar_16x9_992.jpg

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Leveraging an Evolving Landscape



Aggregate LTE Coverage 3Q 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

Making it a Reality



As we begin the State consultation process, FirstNet is committed to:

- Maintaining a close working relationship
- Understanding unique needs
- Seeking input from all stakeholders
- Gathering and utilizing State data



FirstNet Organization



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Jeff Johnson, Vice Chair
Barry Boniface
Tim Bryan
Chris Burbank
Ron Davis
Brian Deese
James Douglas
Kevin McGinnis
Annise Parker
Frank Plastina
Ed Reynolds
Suzanne Spaulding
Richard Stanek
Teri Takai

Executive Director
TJ KENNEDY (Acting)

Deputy Executive Director
TJ KENNEDY

Chief User Advocacy Officer
TJ KENNEDY

Chief Technical Officer (CTO)
JEFF BRATCHER (Acting)

Chief Admin. Officer (CAO)
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*Director of
State Consultation*
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State Plans*
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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

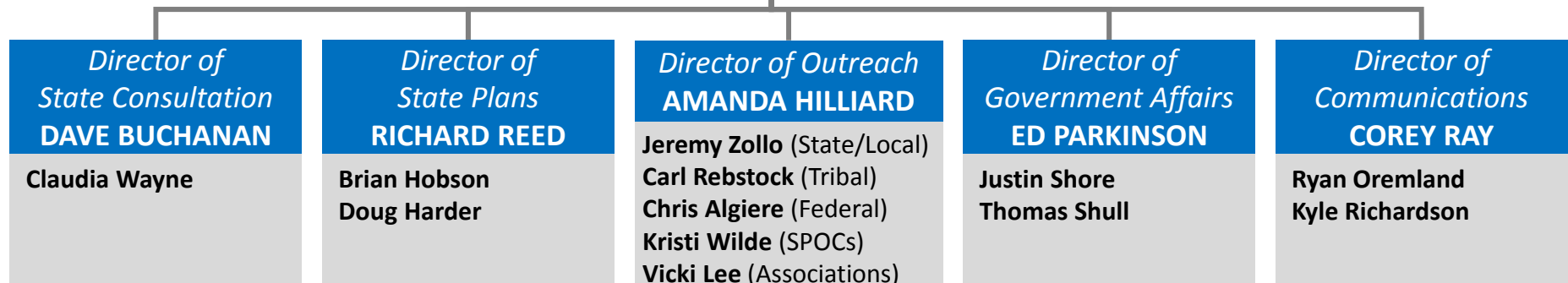
*Director of
Communications*
COREY RAY

Ryan Oremland
Kyle Richardson

FirstNet Organization



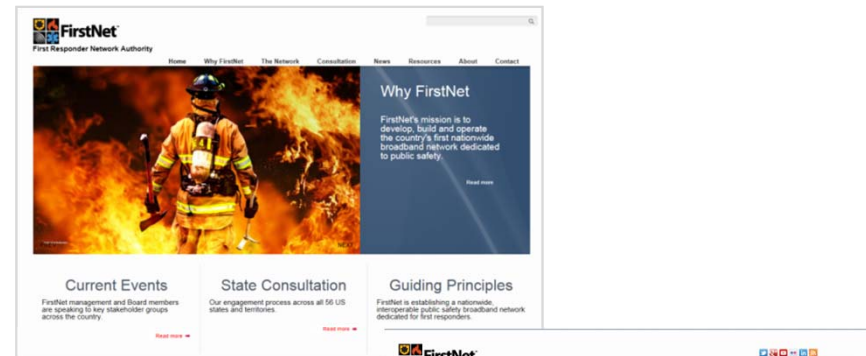
Chief User Advocacy Officer
TJ KENNEDY



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)

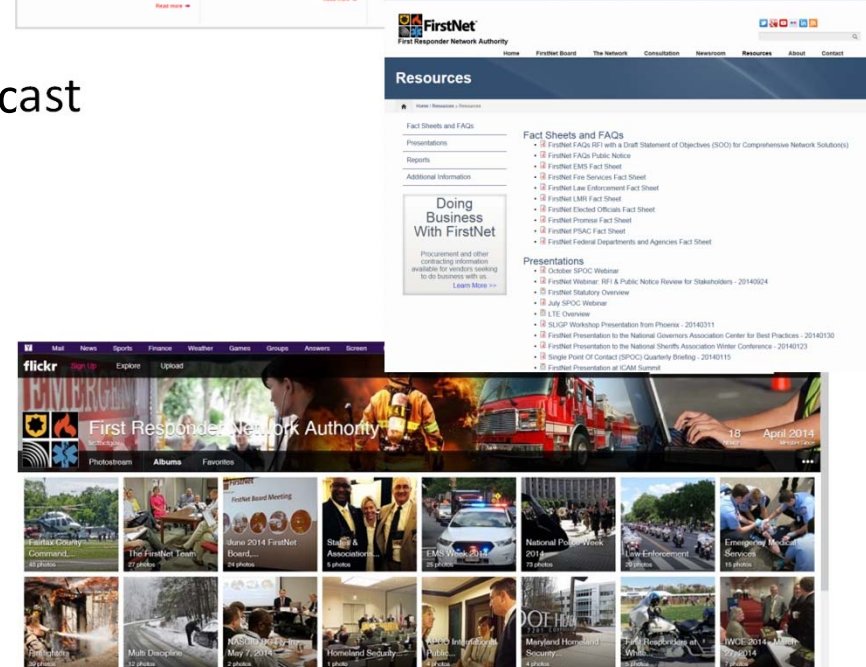
 Google+ (+FirstNetGov)

 YouTube (FirstNetGov)

 Flickr (FirstNetGov)

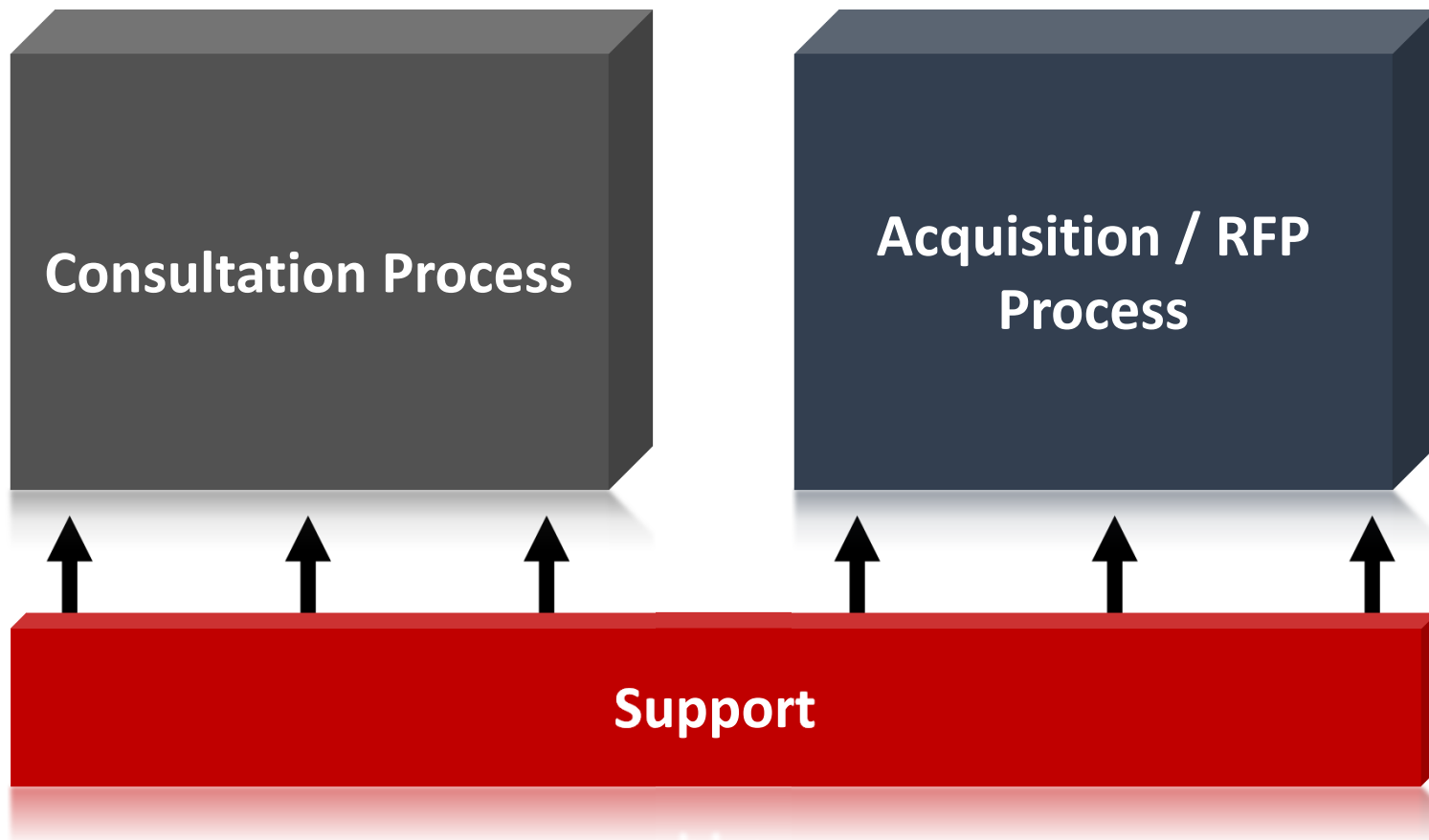
 LinkedIn

 RSS Feeds

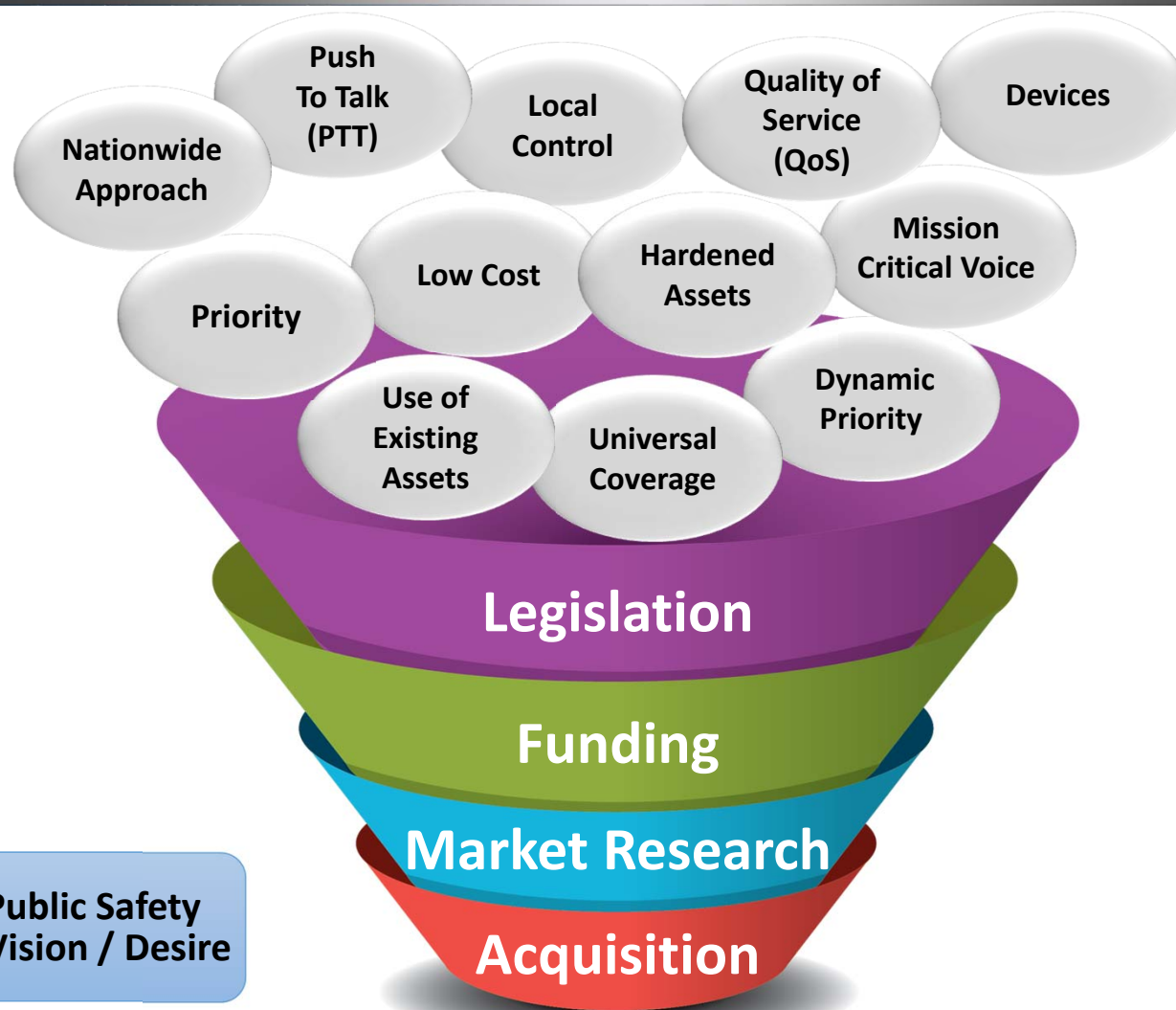


FIRSTNET UPDATES





Understanding Our Boundaries



FirstNet Mandates Under the Act

Understanding the Playing Field



FirstNet™

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



Funding

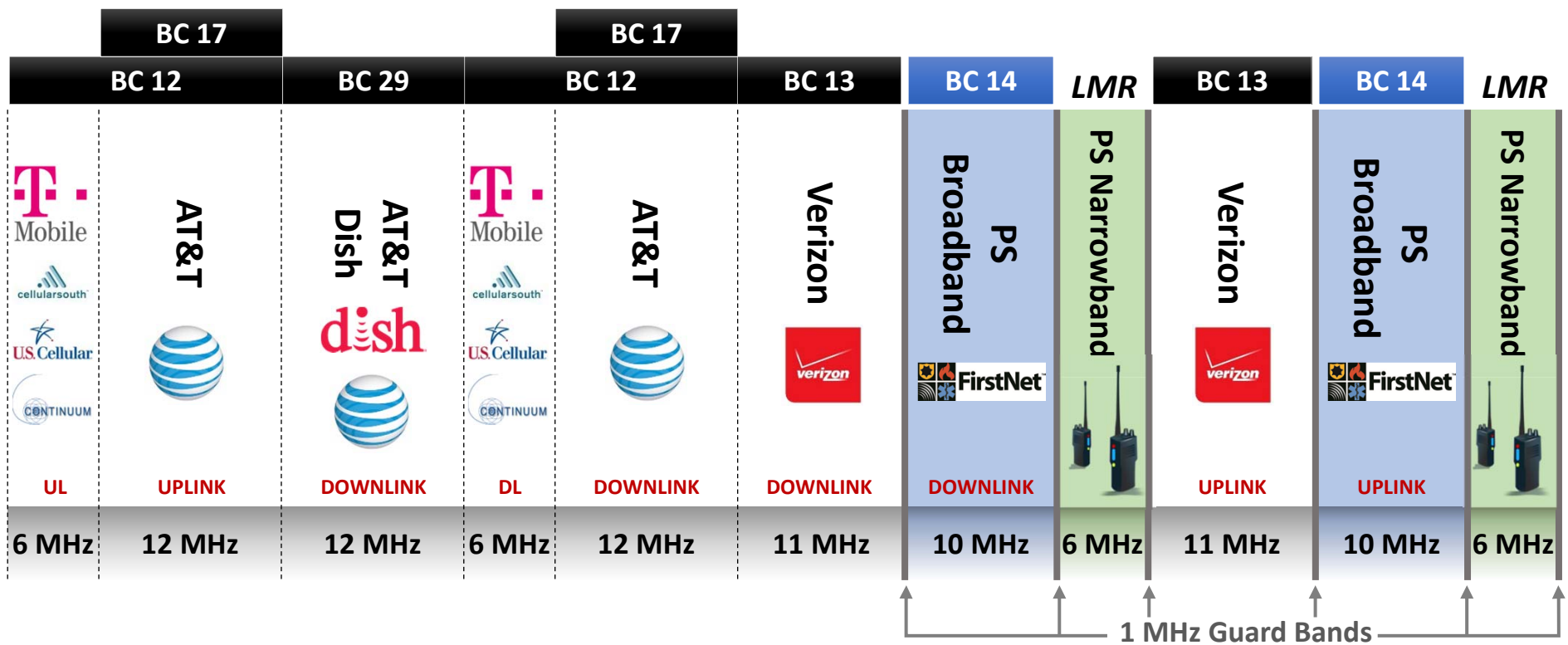
- The network is to be self-sustaining
- Planning and implementation funding is provided through spectrum auctions
- Funds available until Sept 30, 2022; funds that have not been obligated revert to the Treasury

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

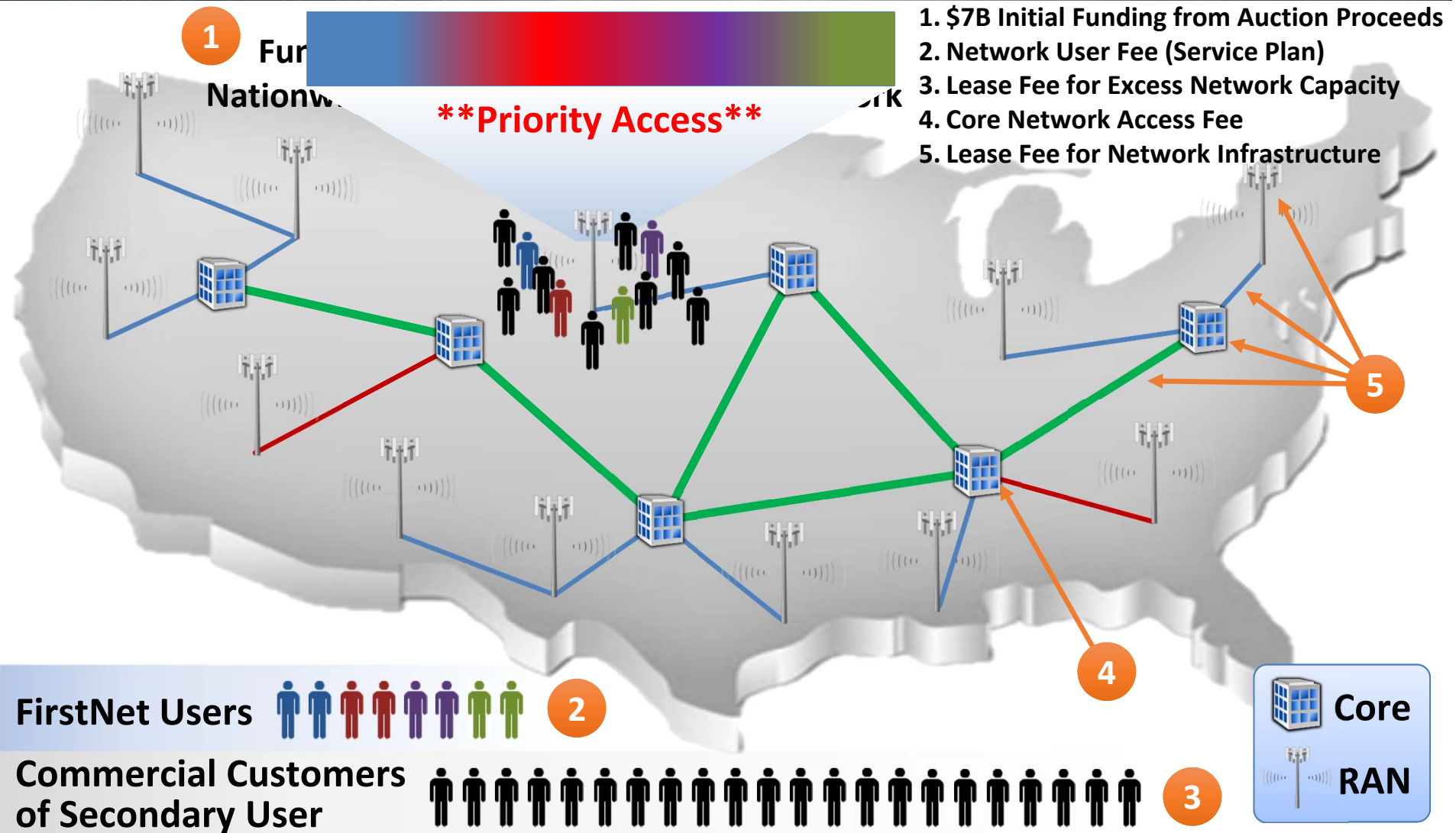
700 MHz Landscape



- 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

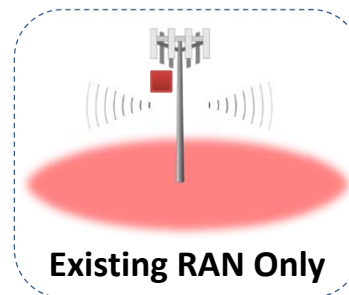
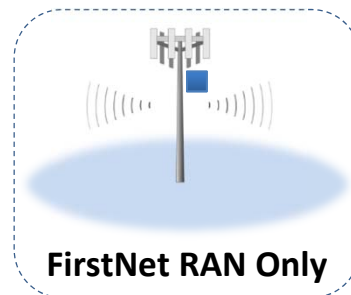
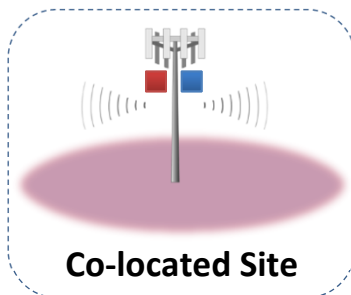
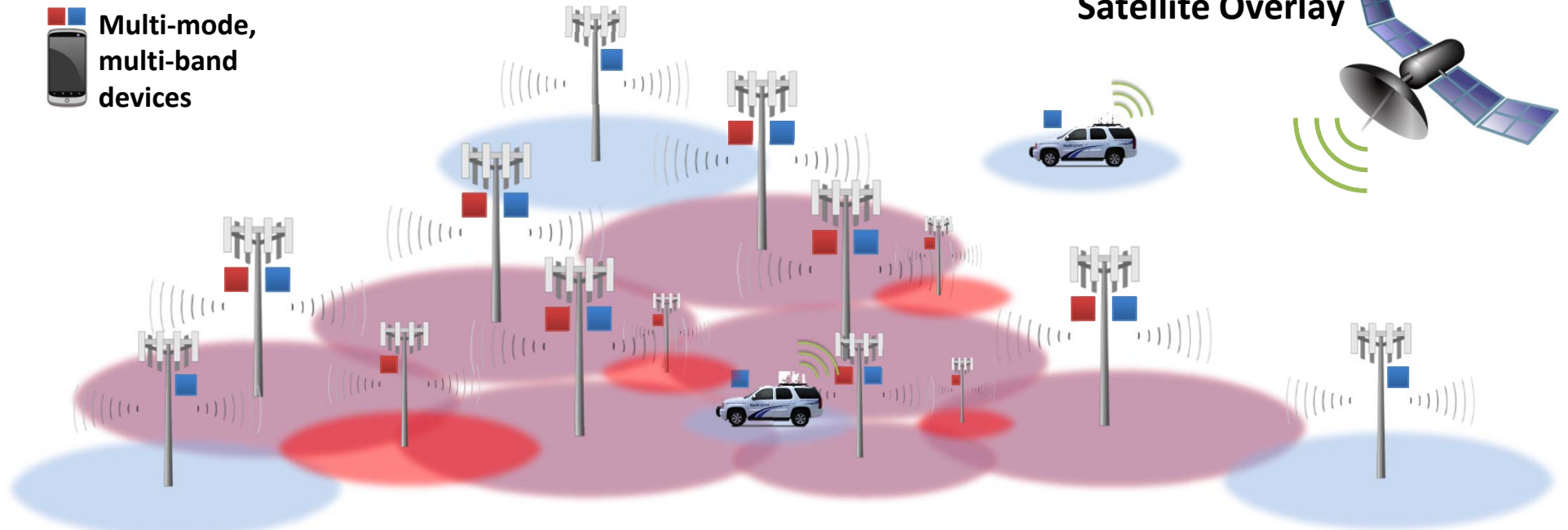
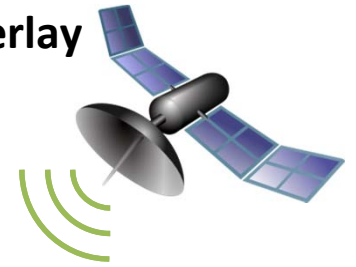


Conceptual Design Approach



 **Multi-mode,
multi-band
devices**

Satellite Overlay



 = **FirstNet RAN (Band 14)**

 = **Existing RAN (Band ??)**

 = **Satellite Overlay**

Objective: Identify current market capabilities and best practices

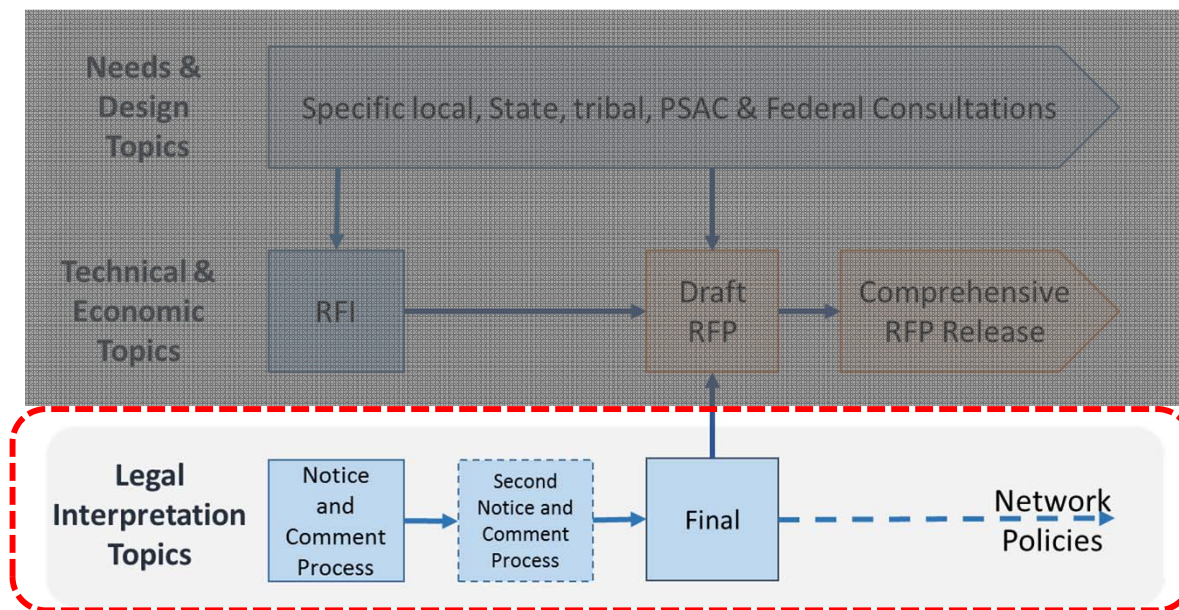
- FirstNet has held meetings with vendors following a methodical and rigorous process
- FirstNet provides guidance on Doing Business with FirstNet website page
 - Note: FirstNet has temporarily suspended accepting new requests



Public Notice & Comment



Acquisition



RFP Processes

Consultative Processes

Highlights:

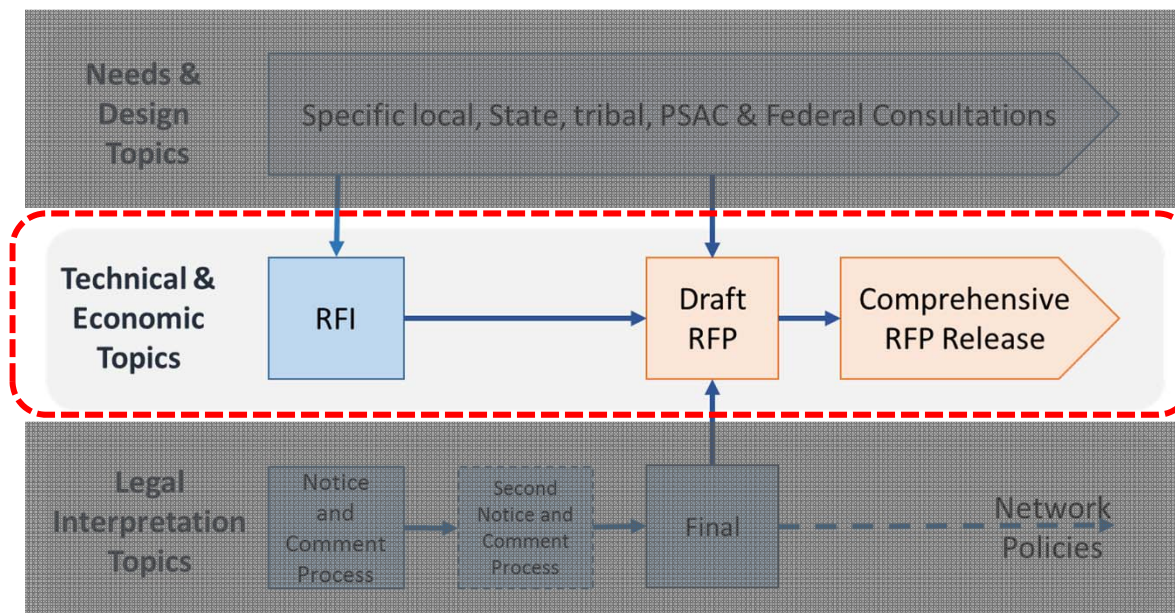
- **Comment Period:**
9/24/14 – 10/27/14
- **63 responses received**
- **Allows inputs from broad stakeholder group**
- **Open & transparent process**
- **All responses posted on www.regulations.gov**

Notice and Comment Process



- The Notice sought comment on key topics including:
 - Network elements, including “core” and “RAN”
 - Network users, including “public safety entity,” “secondary” and other network users
 - Permitted services
 - RFP standards for “open, transparent, competitive” process
 - Definition of “Rural” and substantial rural coverage milestones
 - Existing infrastructure sharing
 - Fees, including covered leasing fees
- FirstNet is considering comments for purposes of informing the RFP process, interpreting the Act, and establishing network policies
- FirstNet has made no final determinations on these topics at this time.

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



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

RFP Processes

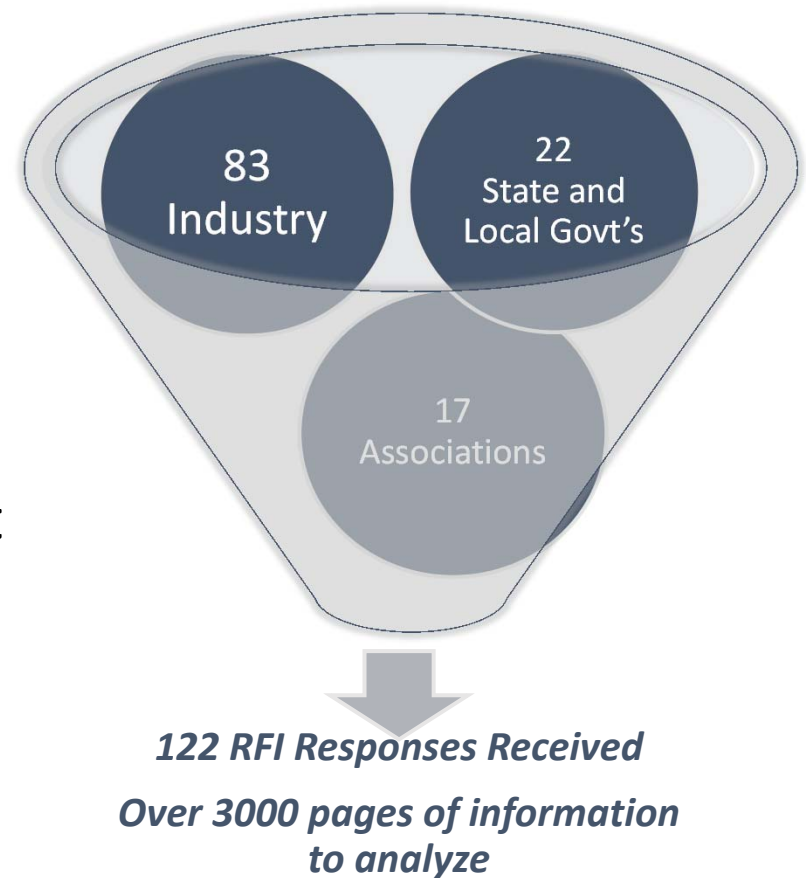
Consultative Processes

Summary of Key Information Requested in the RFI

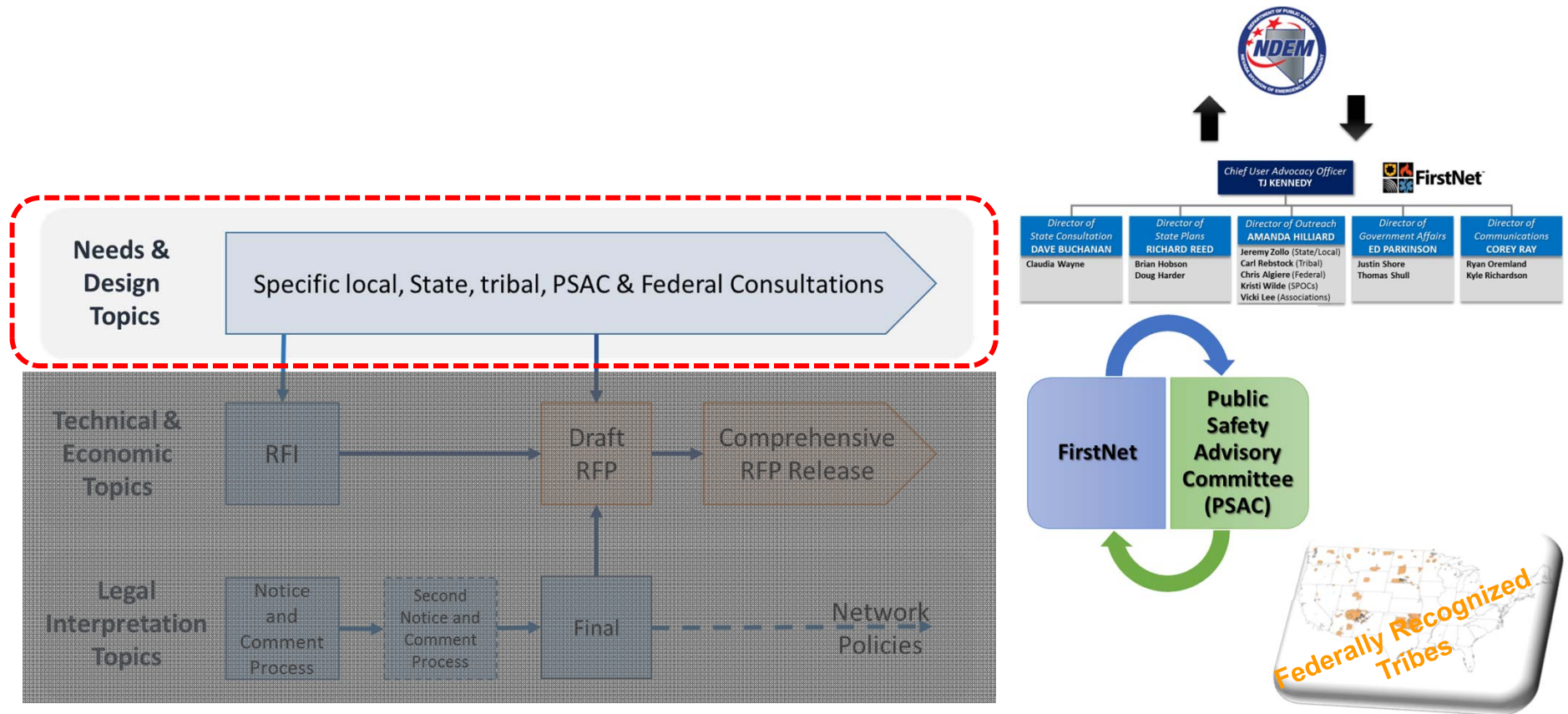


- The RFI asks respondents questions concerning:
 - Building, deploying, operating, and maintaining the nationwide public safety broadband network
 - End user pricing and financial sustainability
 - Speed to market
 - System hardening, reliability, and restoration
 - Priority and preemption
 - Opt-out Radio Access Network integration
 - Lifecycle innovation
 - Customer care and marketing

- 2014 RFI Achievements
 - Broad participation from industry, government, and associations
 - Thoughtful answers to most questions and objectives
 - Largely validated our Statement Of Objectives



Consultation



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

RFP Processes

Consultative Processes



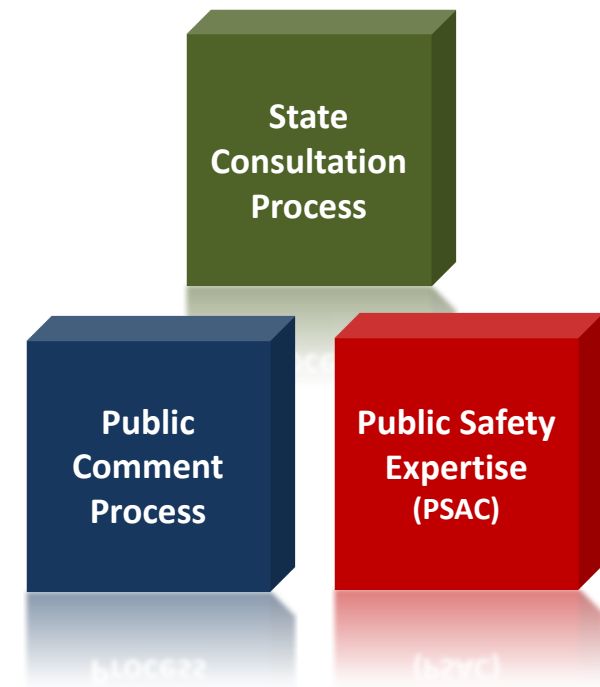
Homeland Security

Emergency Communications Preparedness Center (ECPC)

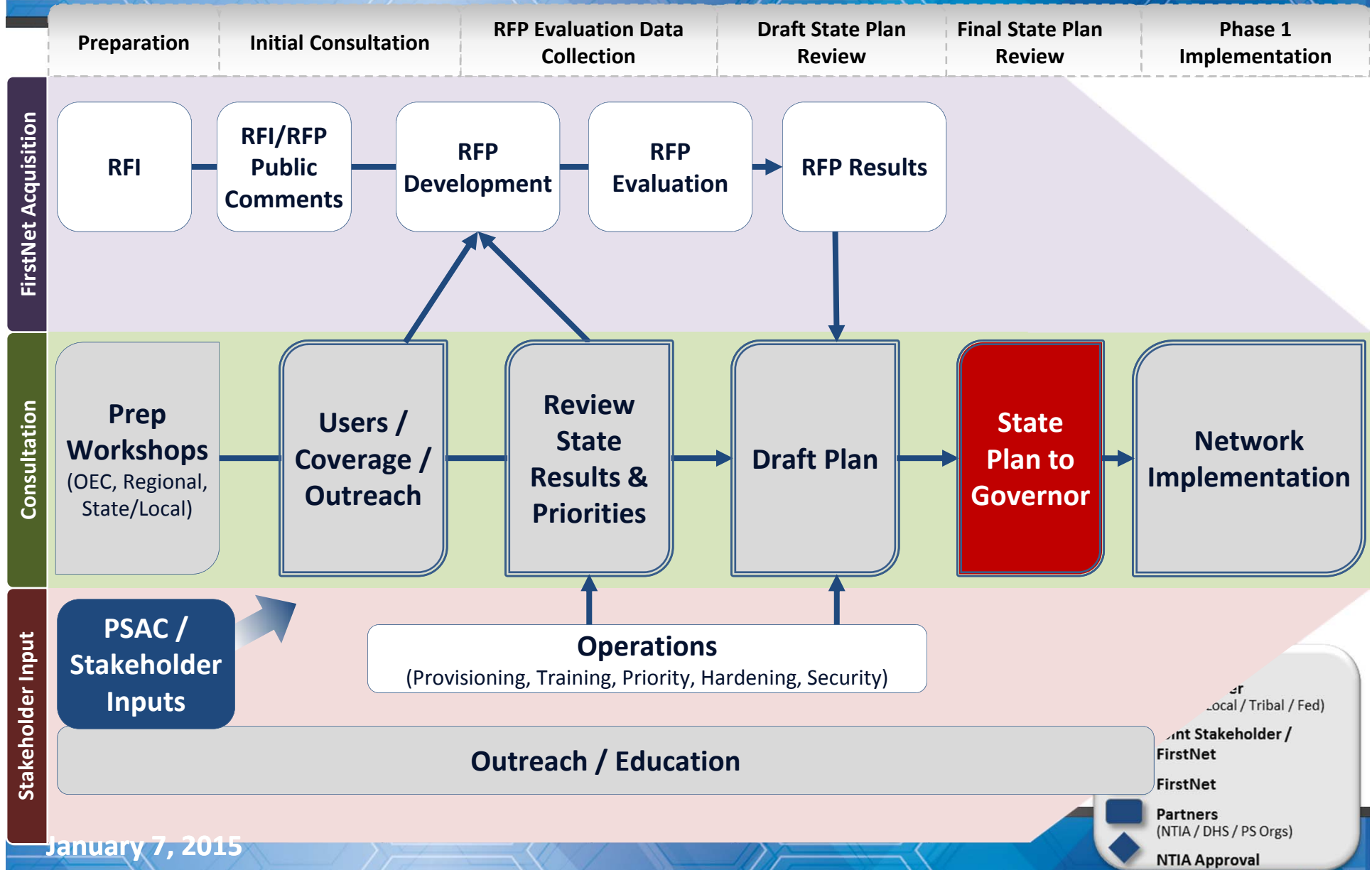
Mandatory Elements for State Planning



- 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



January 7, 2015

The State Plan

Bringing Everything Together

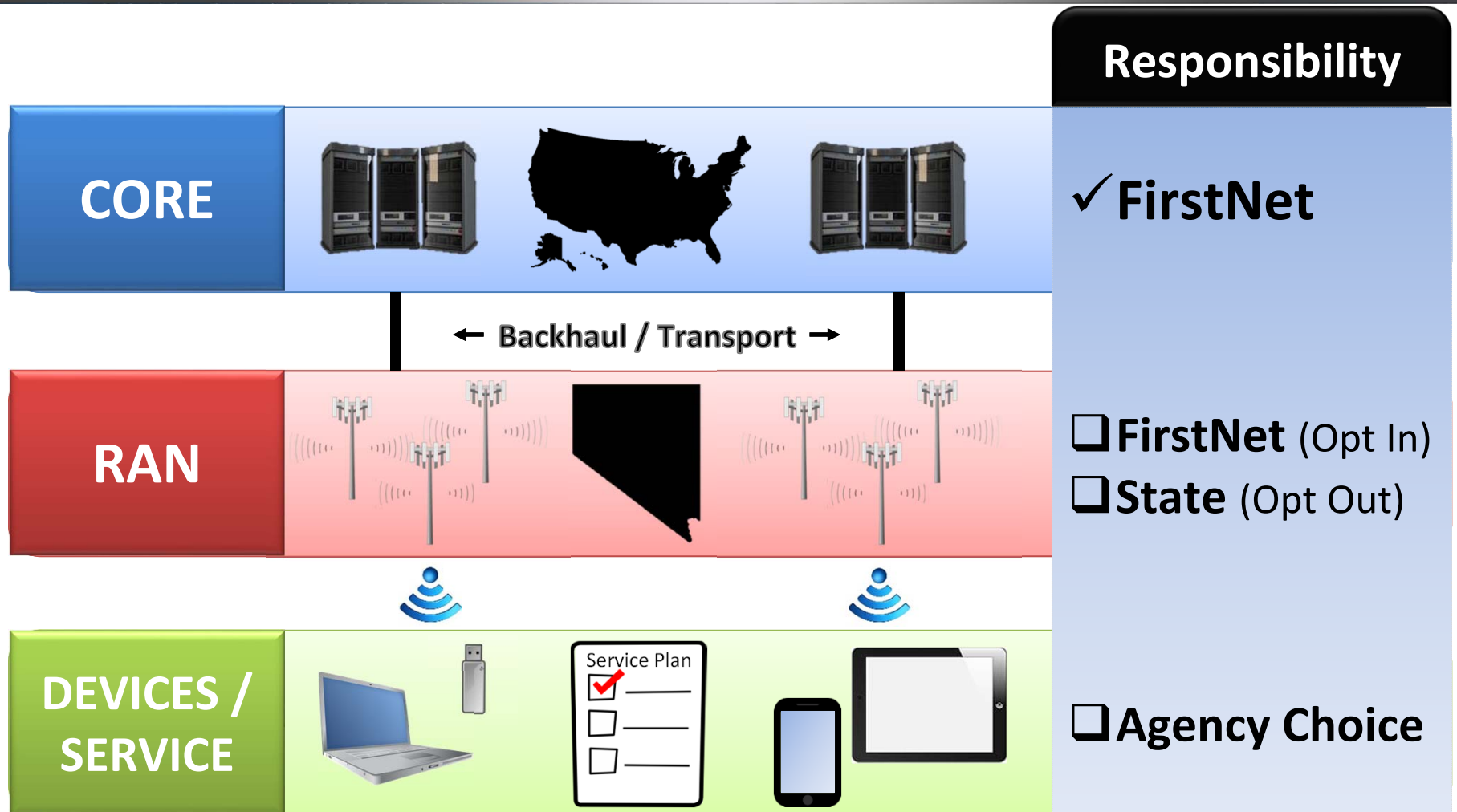


State Plan Requirements

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



Network Components and Choices





***FirstNet and Nevada are working together
to bring wireless broadband to Public Safety***

