



# State of Nevada FirstNet Statewide Meeting

September 9, 2015



Nevada FirstNet



# Meeting Agenda

- Introductions/Background Information
- FirstNet Overview
- NV FirstNet Project Overview
- BREAK
- Stakeholder Discussion
- Capacity and Coverage Requirements Overview
- BREAK
- Data Collection & Survey Submission Session
- Questions & Answers
- Closing Remarks



# FirstNet Overview

Robert LeGrande, II  
Project Executive ( C )



Nevada FirstNet



# Vision for Public Safety

Non-Mission Critical

The Long-Term Vision

Mission Critical

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

Mobile Data Terminal –

 **FirstNet<sup>™</sup> LTE Device**



Data

Smart Phone –

 **FirstNet<sup>™</sup> LTE Device**



Data

Voice

Land Mobile Radio  
Public Safety  
System/Spectrum



Voice



Nevada FirstNet

 **The Digital Decision**

# Nationwide Vision



Map from Mosaik Solutions LLC

## PUBLIC SAFETY NEEDS

- ✓ Dedicated Spectrum
- ✓ Priority / Preemption
- ✓ Public Safety Grade
- ✓ Cybersecurity
- ✓ Public Safety Applications



Nevada FirstNet



# Implementing the Vision



## THE LAW

2.22.12

FirstNet becomes law  
PL 112-96

## FUNDING



**\$7B** authorized to build the FirstNet network. Funded by spectrum auctions through 2022

## GOVERNANCE



The FirstNet Board has **15** members, including those with telecommunications and public safety backgrounds

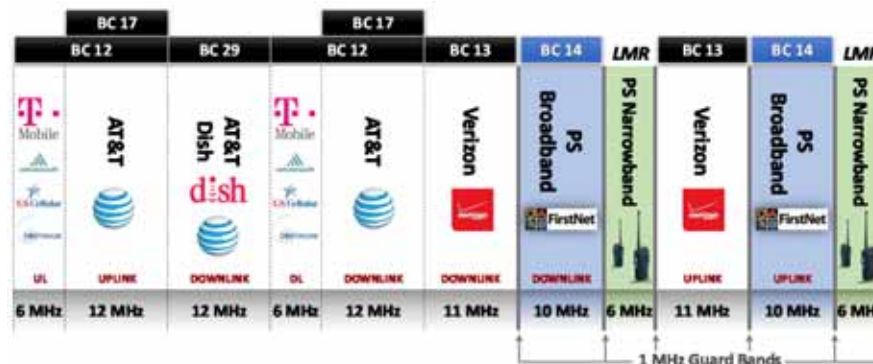
Each Governor appoints **1** Single Point of Contact (SPOC) and governing body to represent the state's interests to FirstNet

**40** member Public Safety Advisory Committee (PSAC) advises FirstNet on public safety intergovernmental matters



## BAND CLASS (BC) 14

**20MHz** of bandwidth has been dedicated to public safety in the prime upper **700MHz** frequency range

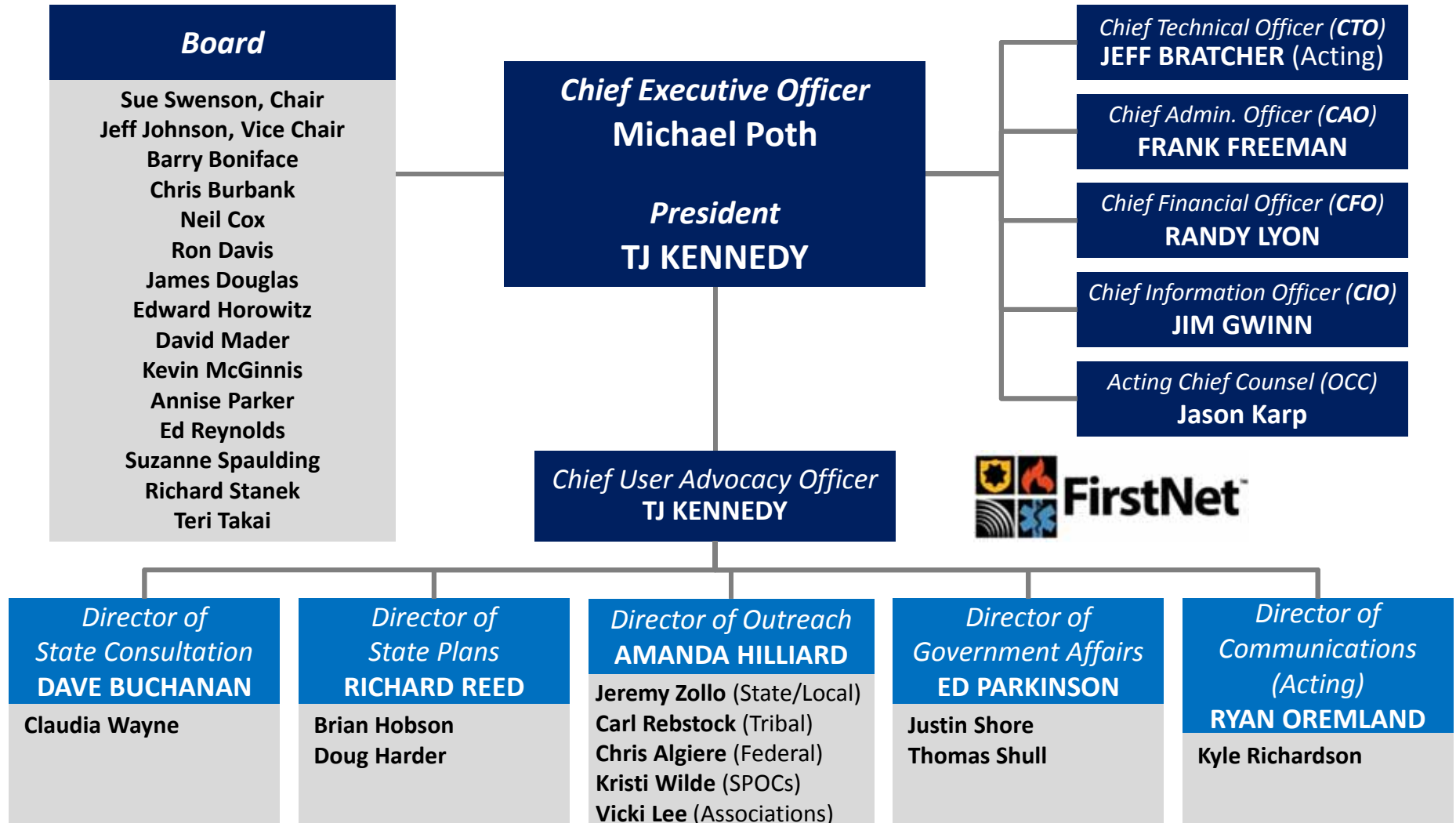


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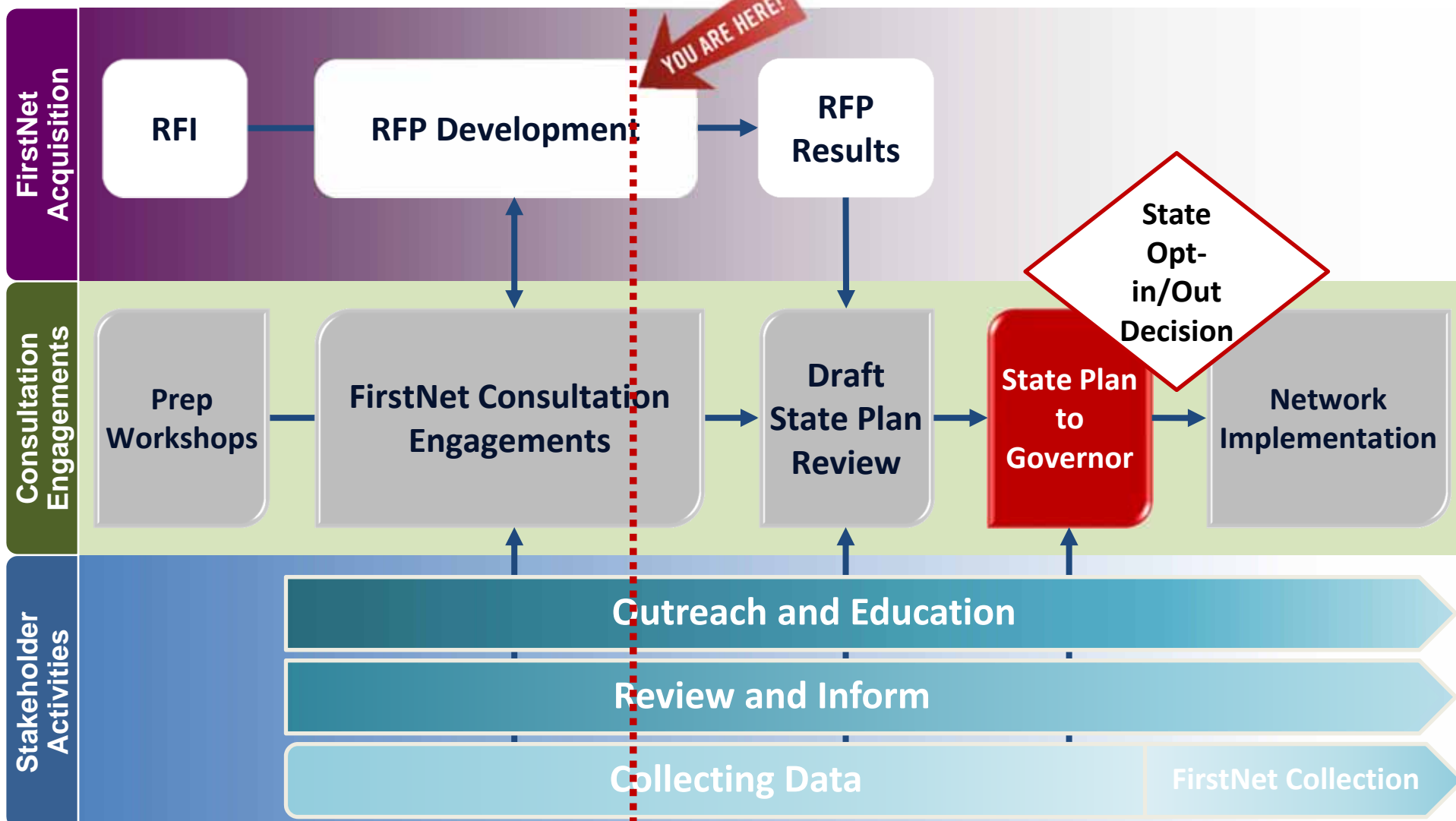




# FirstNet Organization

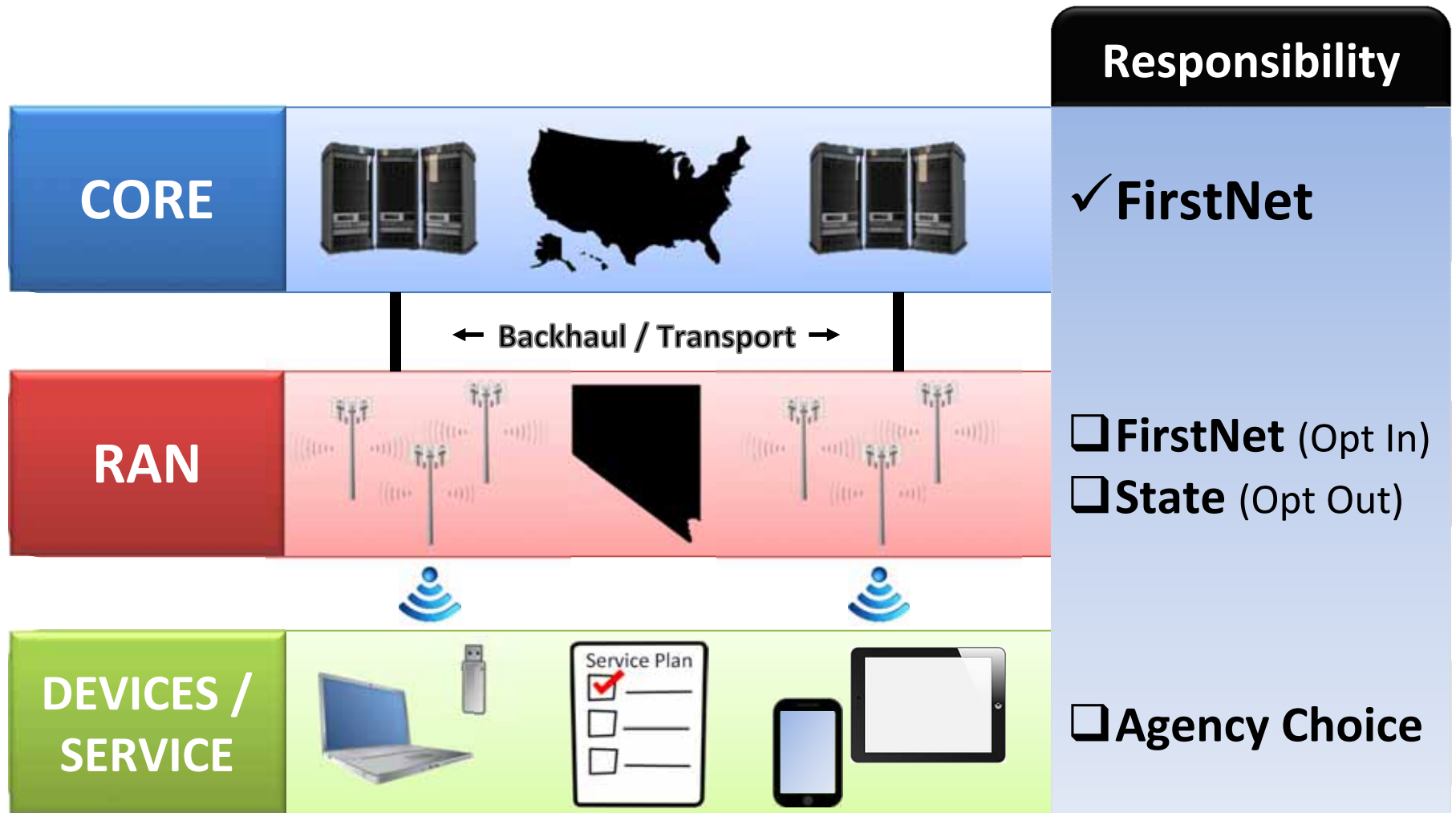


# FirstNet Development Process





# Network Components and Choices



# Need Inputs to Get Answers

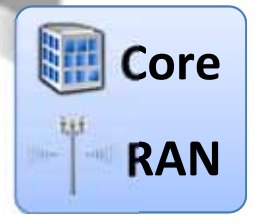
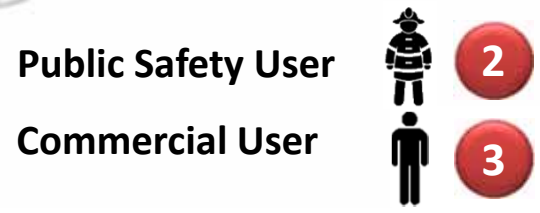
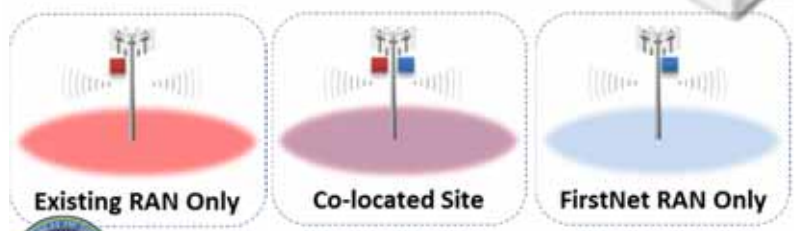
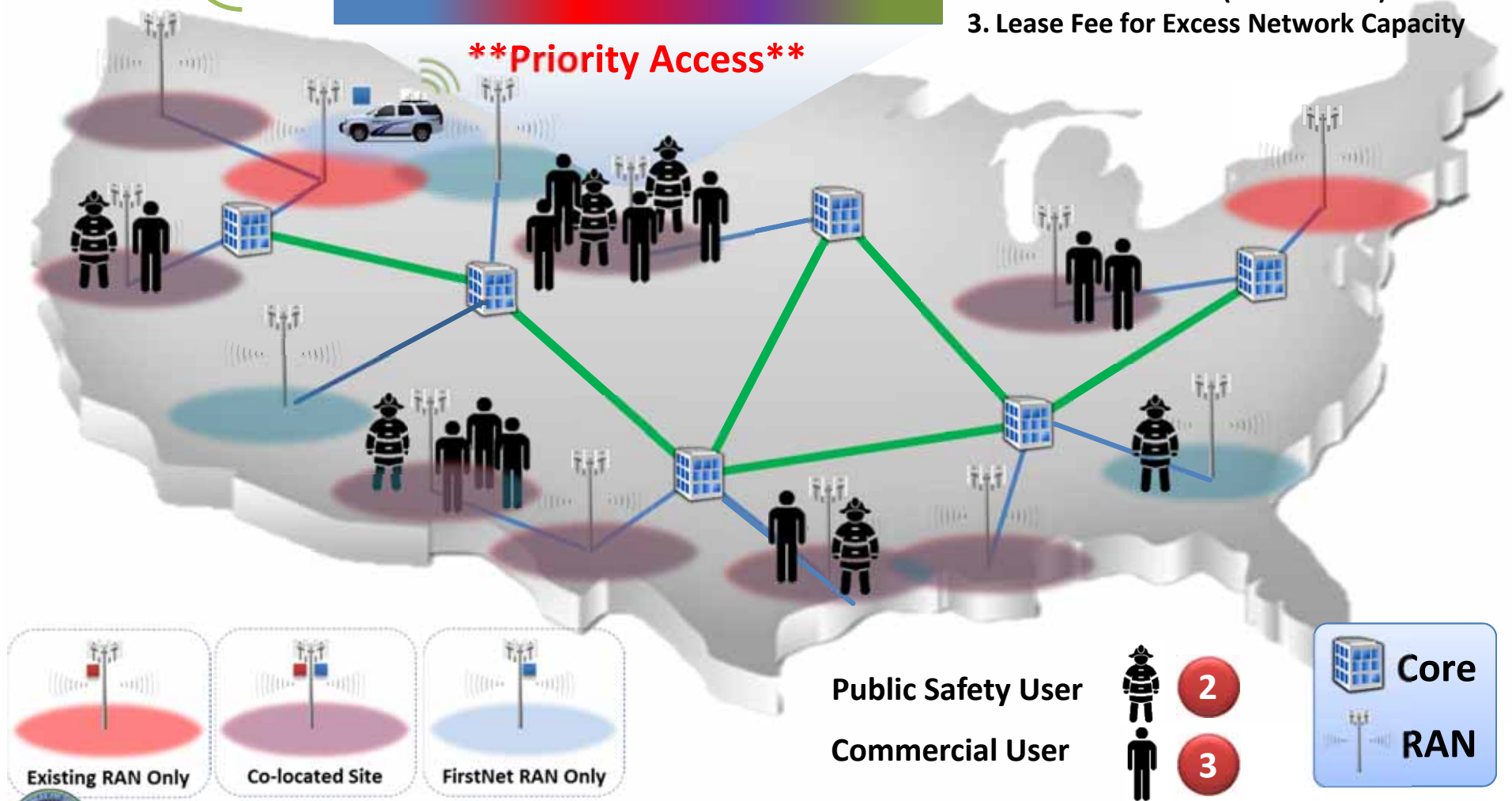


# Revenue, Architecture & Priority



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

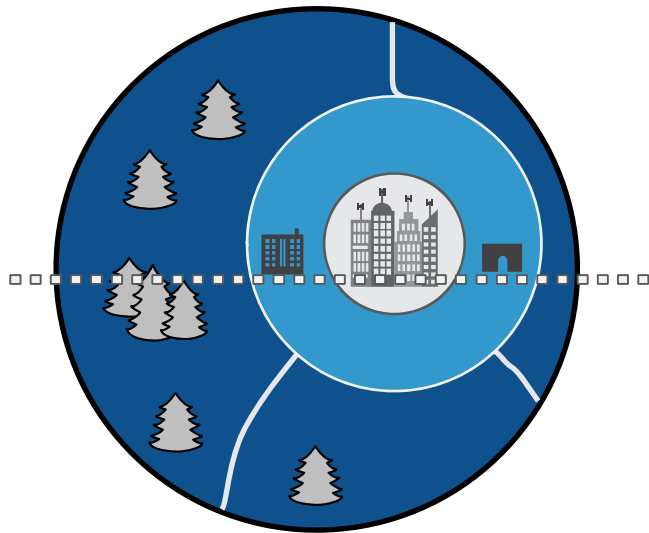
**\*\*Priority Access\*\***



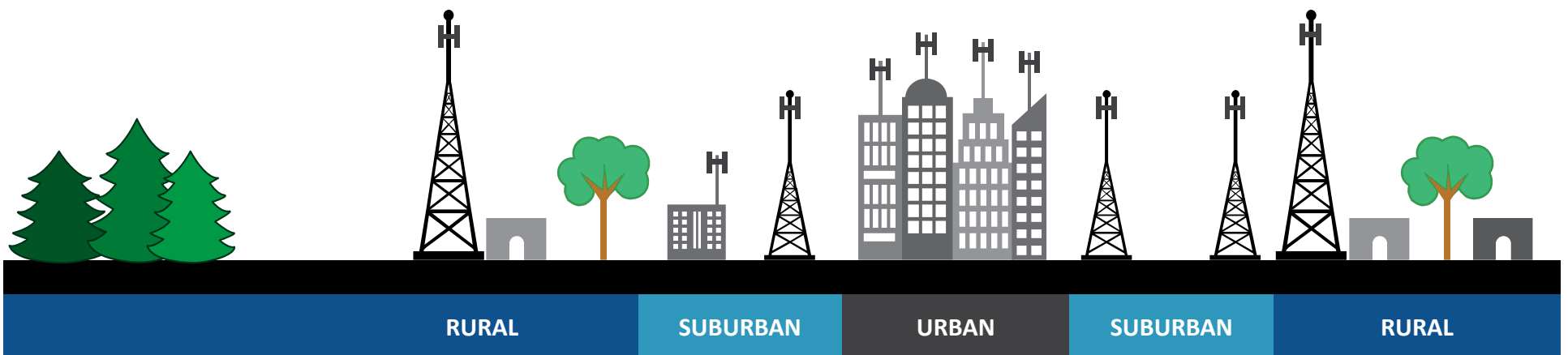
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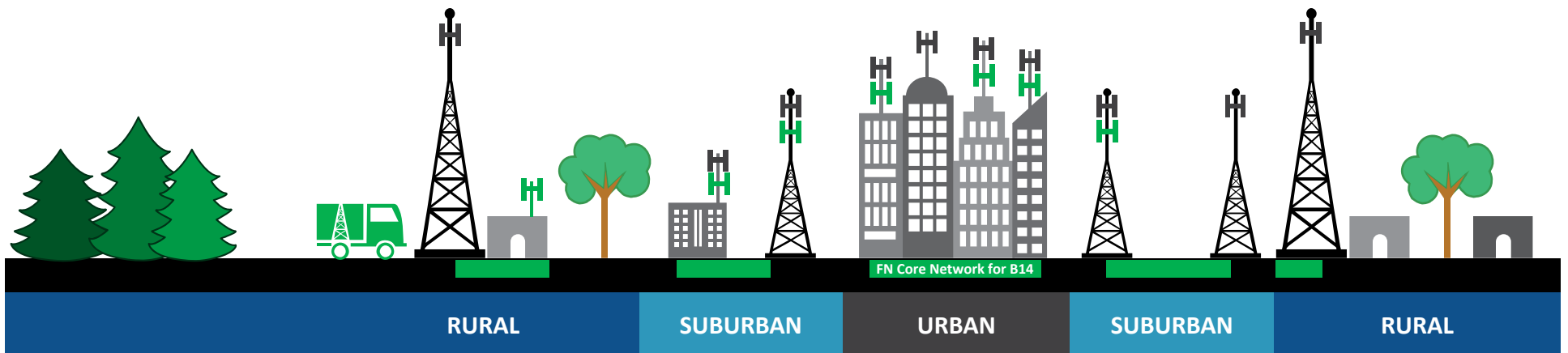
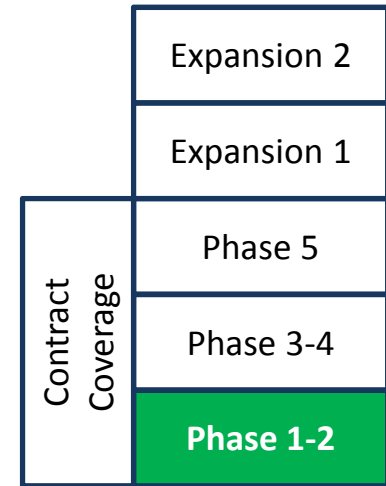
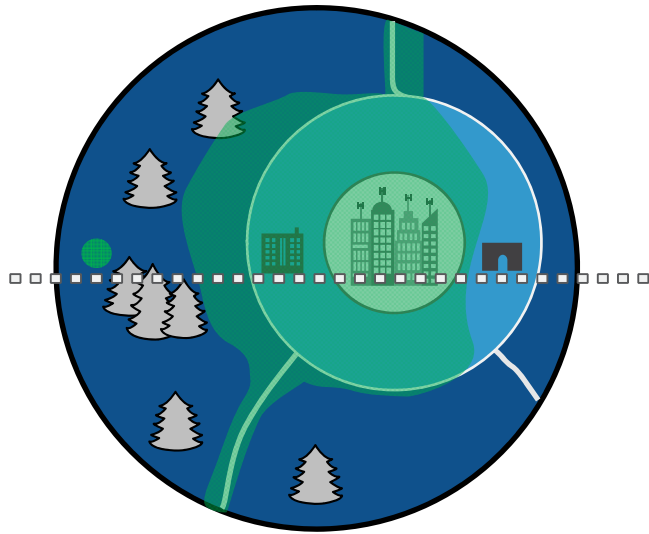
# Phased Approach to Coverage



Contract Coverage	Expansion 2
	Expansion 1
	Phase 5
	Phase 3-4
	Phase 1-2

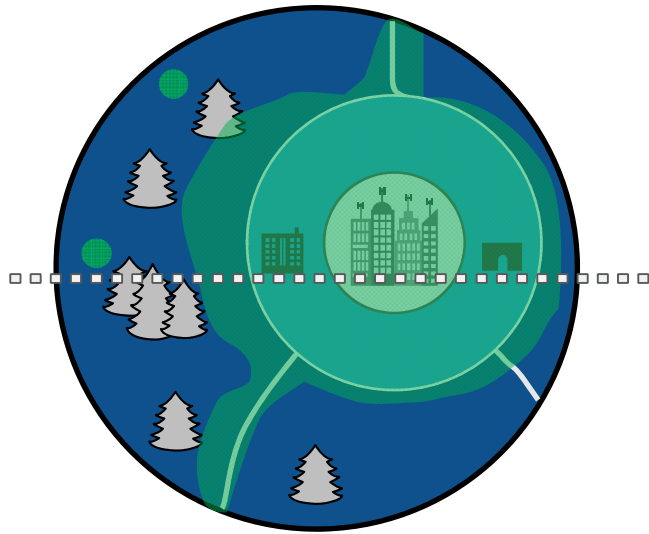


# Phased Approach to Coverage

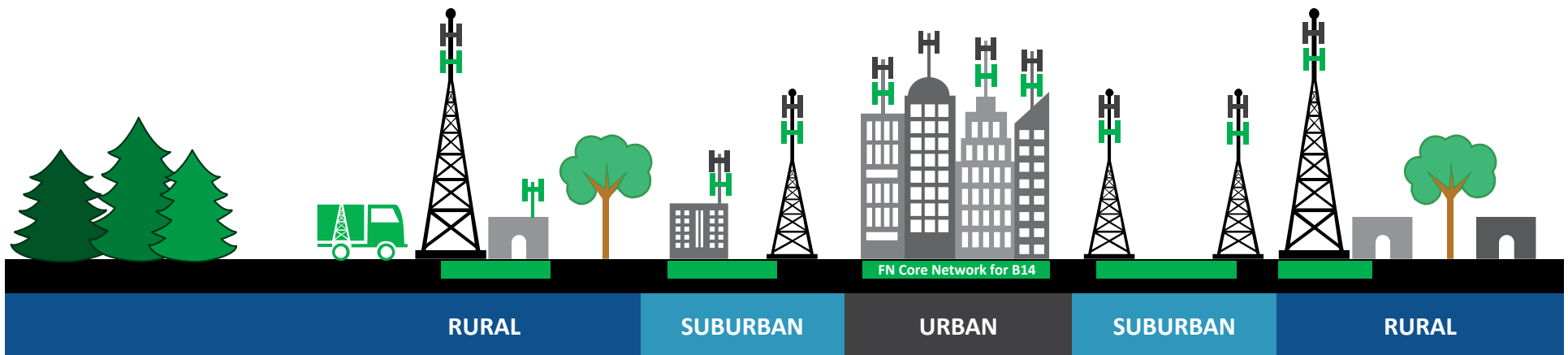




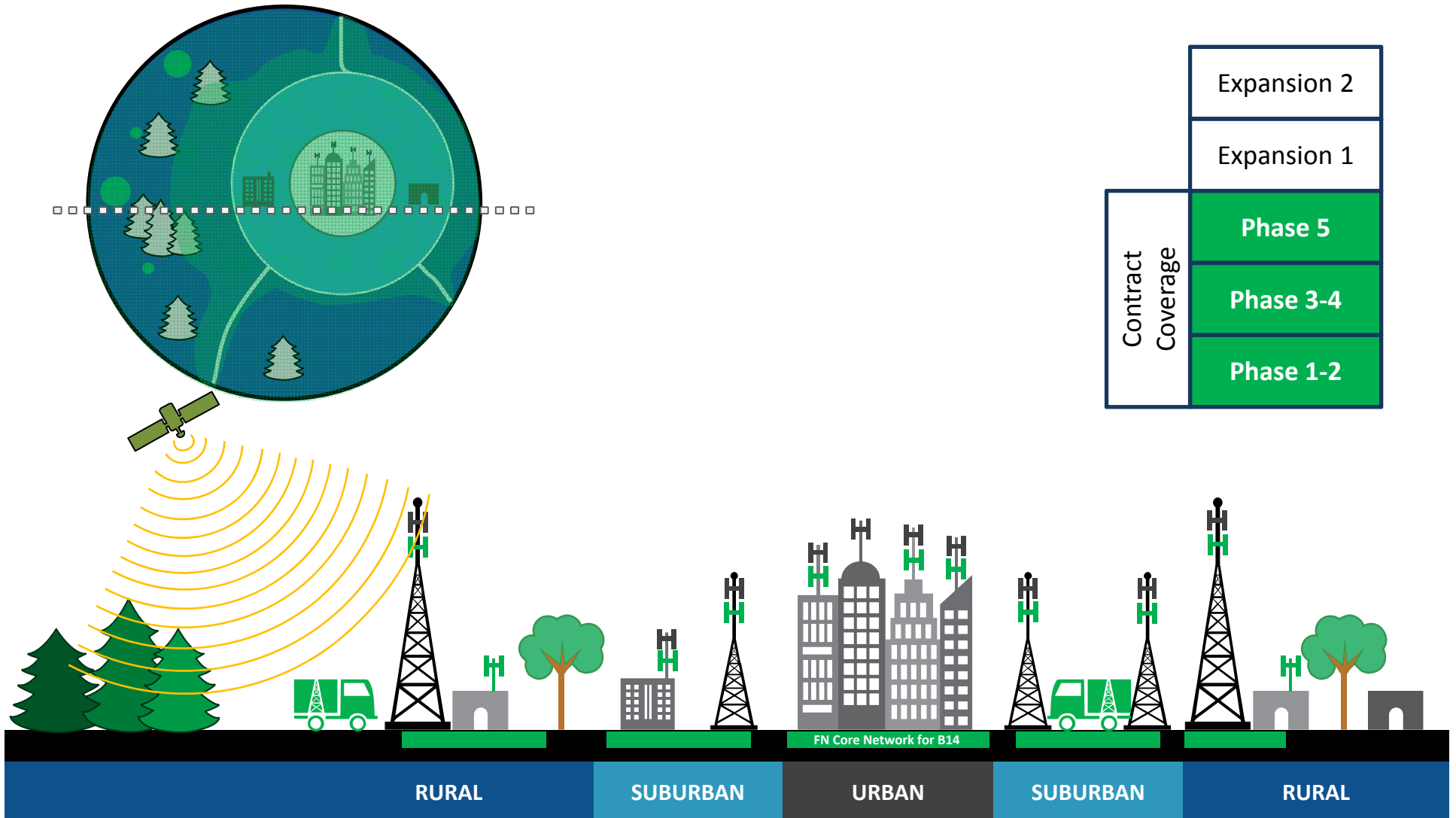
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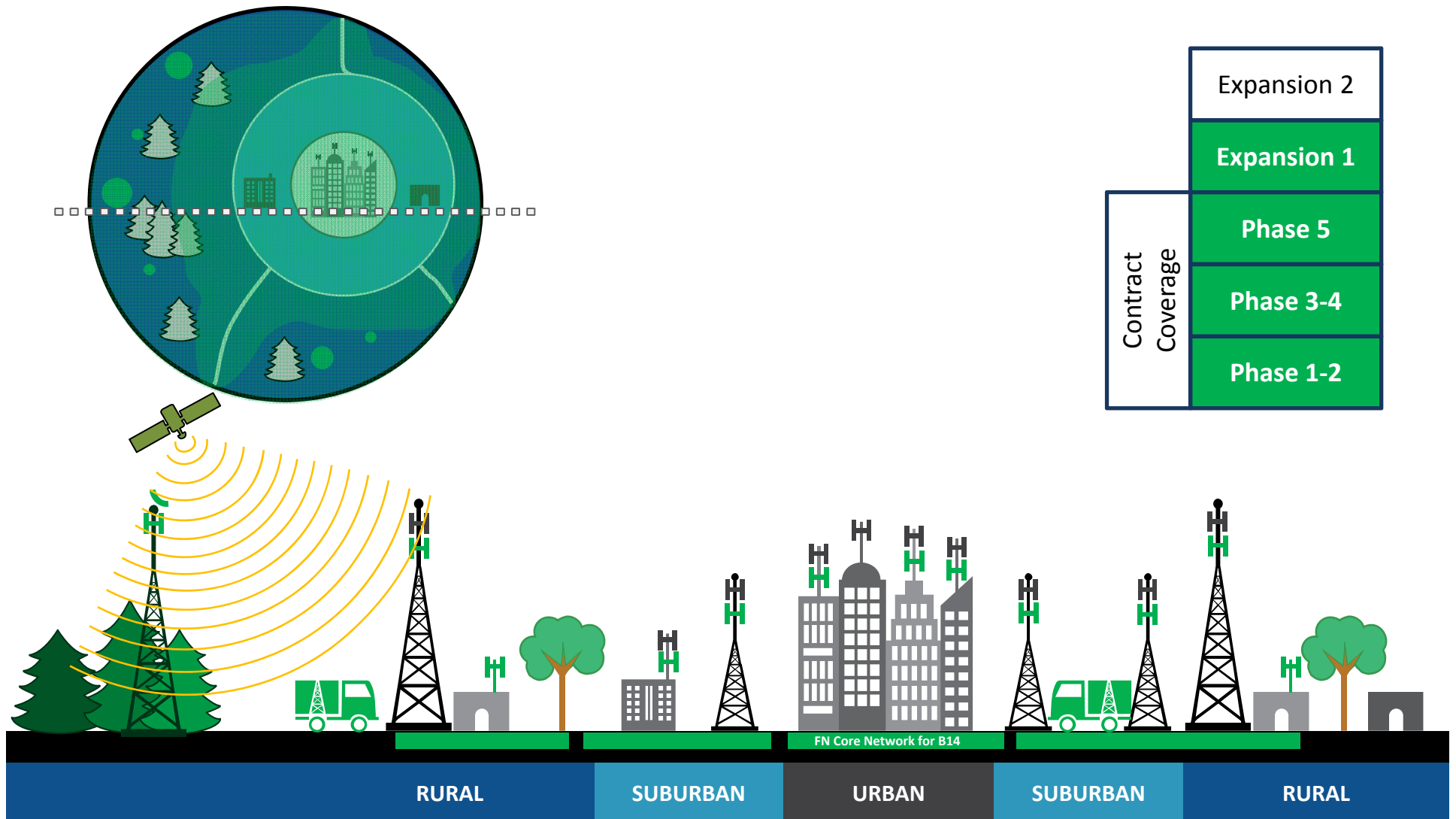


# Phased Approach to Coverage

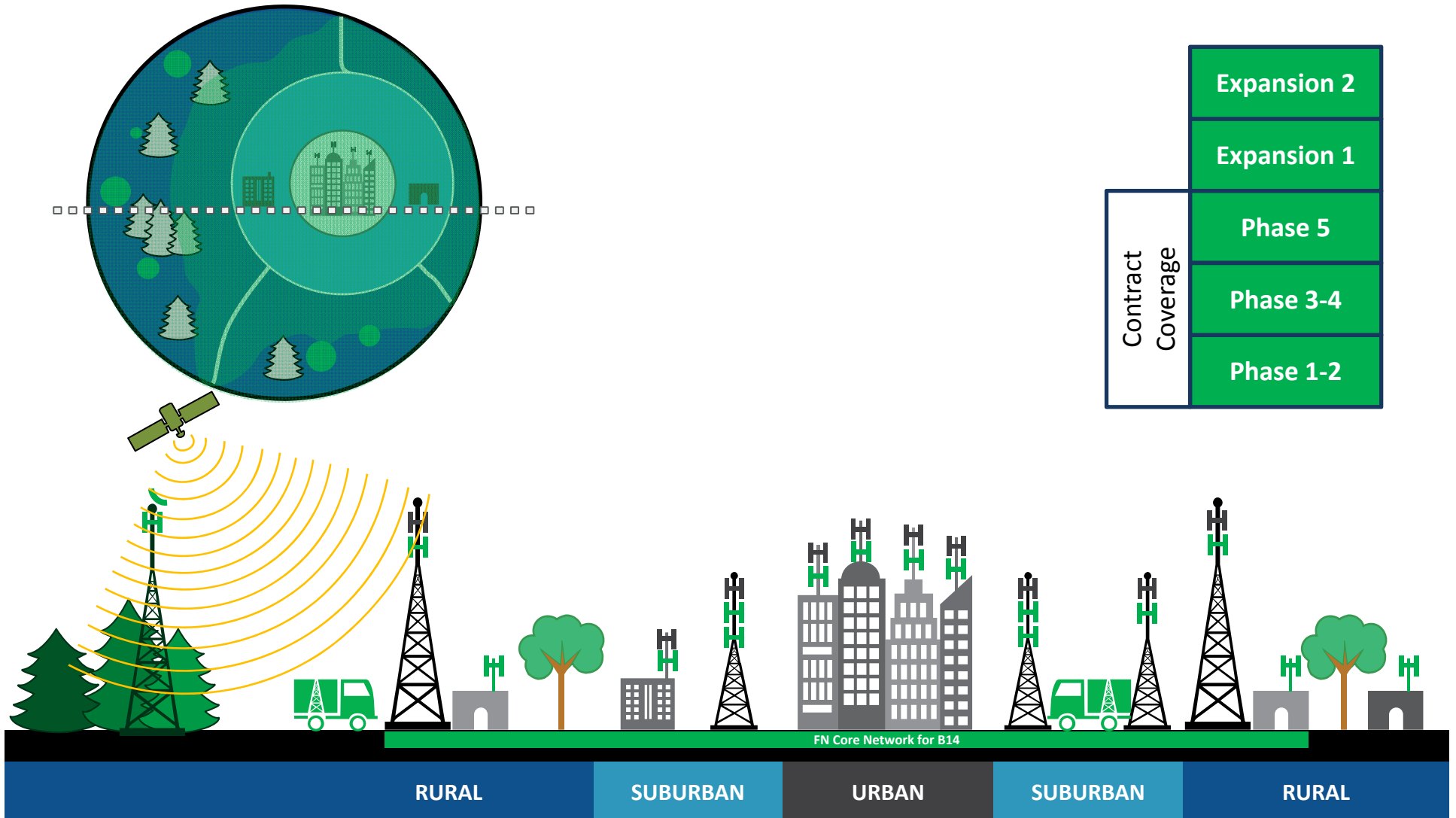




# Phased Approach to Coverage



# Phased Approach to Coverage



# Rural Deployment

## Requirements of the Act

*"...shall require deployment phases with substantial rural coverage milestones as part of each phase of the construction and deployment of the network"*

- State Consultation Topic – identifying coverage objectives and inputs on a phased deployment

## Fiscal Approach

### Nationwide Reinvestment of Revenues

*(As proposed in 2<sup>nd</sup> public notice)*

## Potential Technical Options

- High power tower sites
- High power devices
- Deployable solutions (including SATCOM)



## Contractual Measures

- Considering RFP incentives for rural
- Network policies with partner(s) to evaluate existing infrastructure beyond initial deployment

*Note: The definition of rural does not determine coverage, our resources will determine coverage. The definition of rural will be used to measure whether substantial rural milestones have been included in each phase of deployment. Being included in the definition of rural does not guarantee coverage, nor does being excluded from it deny coverage.*



# What is a State Plan?

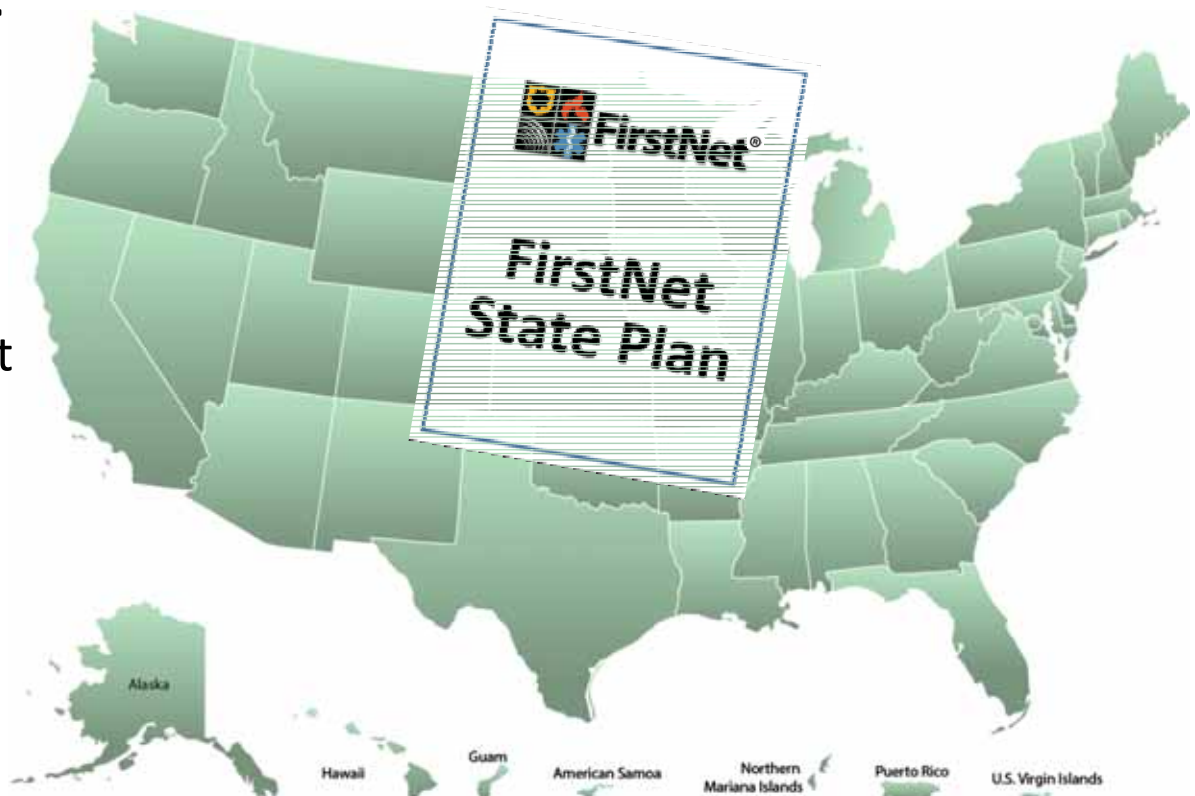
- Contains the Information the Act Requires**
- Contains the Information the State Desires**
- Captures a Snap Shot in Time**
- Allows the Governor to Make an Informed Decision on the FirstNet Value**
- Is a Non-Binding Document**
- Is Implementable and Affordable**
- Supports the FCC and NTIA in Evaluation of a State's Alternative RAN Plan**



# State Plan Process

**Under the Act, the Governor has 90 days to choose whether to**

1. Participate in the FirstNet proposed radio access network (RAN) deployment or
2. Assume responsibility to conduct its own state RAN deployment





# FirstNet Network Benefits



**Dedicated to  
Public Safety**



**Public Safety  
Apps /  
Services**

**QoS, Priority  
& Preemption  
(QPP)**



**Situational  
Awareness**



**Local  
Control**



**Public Safety  
Grade**



***“FirstNet must provide a service that is compelling to public safety in order to earn your business.”***

**Sue Swenson**  
Chairwoman, FirstNet

**WHY: There is NO Federal or State Mandate to use the Network...**





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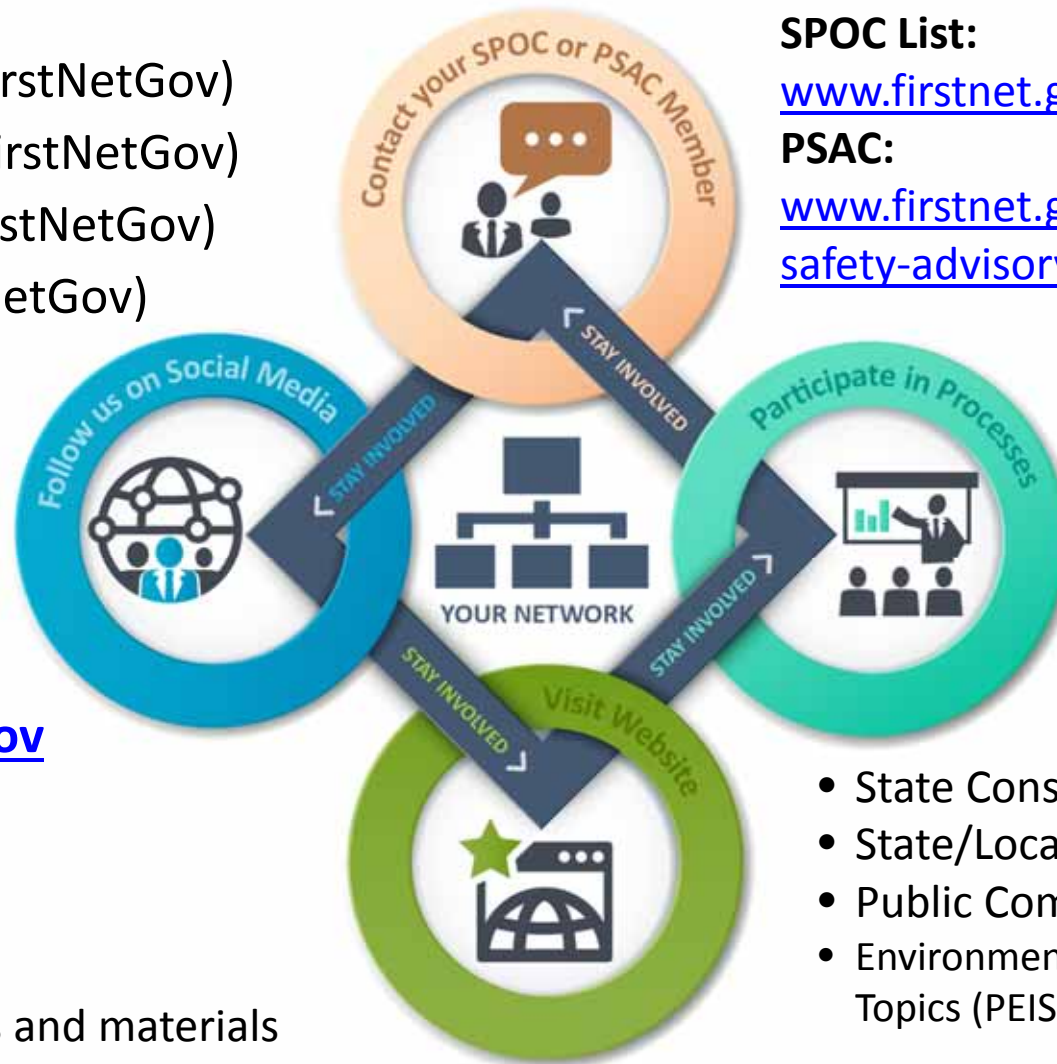


# Outreach and Education

-  Twitter (@FirstNetGov)
-  Google+ (+FirstNetGov)
-  YouTube (FirstNetGov)
-  Flickr (FirstNetGov)
-  LinkedIn

[www.firstnet.gov](http://www.firstnet.gov)

- Fact Sheets
- Blogs
- Presentations
- Current Events
- Board meetings and materials



## SPOC List:

[www.firstnet.gov/consultation](http://www.firstnet.gov/consultation)

## PSAC:

[www.firstnet.gov/about/public-safety-advisory-committee](http://www.firstnet.gov/about/public-safety-advisory-committee)

- State Consultation
- State/Local Outreach Activities
- Public Comment
- Environmental & Historic/Cultural Topics (PEIScomments@firstnet.gov)



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# NV-FirstNet Project Overview

Dennis Cobb

NV-FirstNet Project Manager ( C )



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# NPSCC Members

## Nevada Public Safety Communications Committee

Director DPS

State CIO

Chief; Division of  
Emergency  
Management

Statewide  
Interoperability  
Coordinator

### Representatives from the Below Agencies

Nevada  
Department of  
Transportation

Nevada Fire  
Chiefs  
Association

NV Energy

Nevada National  
Guard

Inter-Tribal  
Council of  
Nevada

Nevada Hospital  
Association

Public Safety  
Agency from  
County less than  
100,000

Homeland  
Security  
Commission

Nevada System of  
Higher Education

Southern Nevada  
Area  
Communications  
Council

US Dept. of  
Homeland  
Security

Nevada Sheriffs'  
and Chiefs'  
Association

Las Vegas  
Metropolitan  
Police  
Department

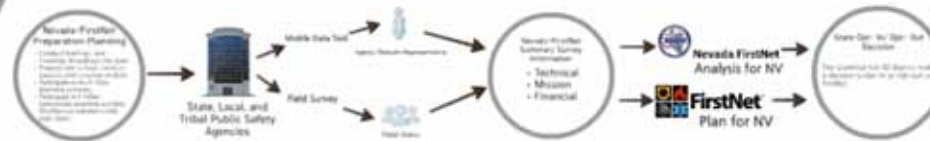
Washoe County  
Regional  
Communications  
System



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# NV-FirstNet High-level Process



## Nevada-FirstNet Preparation Plan



# NV-FirstNet High-level Process

## Nevada-FirstNet Preparation Planning

- Conduct briefings and meetings throughout the state
- Prepare user surveys, conduct capacity and coverage analysis
- Participate in multi-state planning activities
- Participate in FirstNet nationwide planning activities (FirstNet consultations with each state)



State, Local, and Tribal Public Safety Agencies



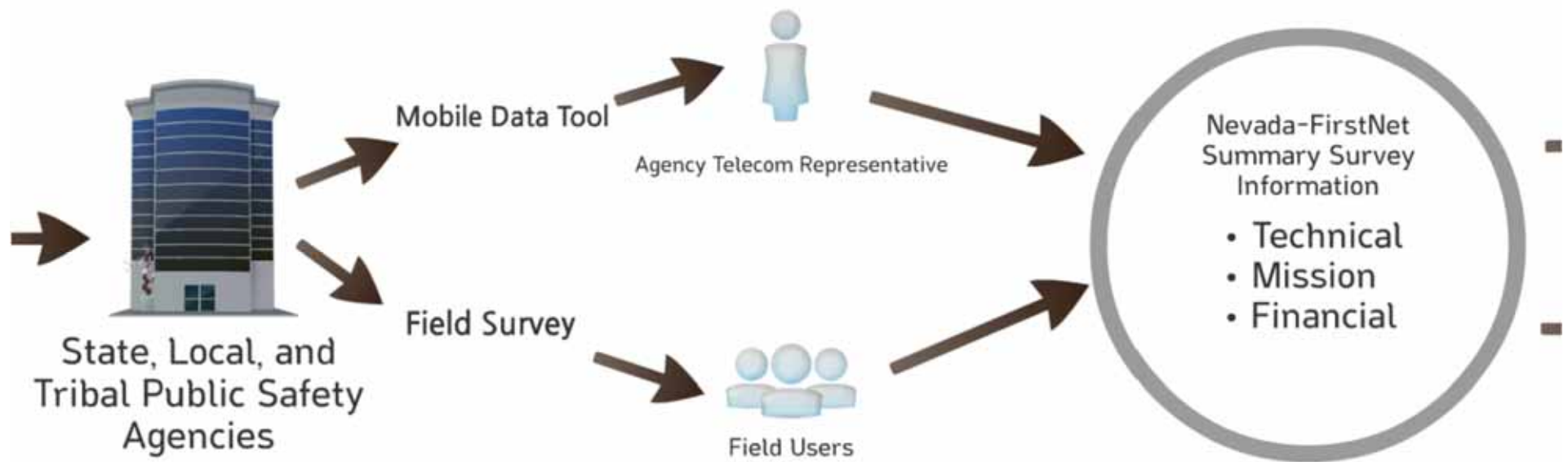
# NV-FirstNet High-level Process

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# NV-FirstNet High-level Process





# NV-FirstNet High-level Process

## Nevada-FirstNet Preparation Online Survey

- Information will gathered by Mobile Data Tool and User Survey
- Designed to collect the essential information for Nevada in preparation for state consultation
- Questions are focused on gathering the current and future requirements for Public Safety Data Communications, as well as current coverage information.

**Nevada FirstNet Survey**

1. How representative are you?

2. How representative is your agency?

3. Which primary jurisdiction do you represent?

4. How many people have you served at one or more locations?

5. How many law enforcement personnel are there?

6. Number of government units in your agency:

7. All of the following are: (Select all that apply)

Group/Agency	Police	Fire	Emergency Medical Services (EMS)	Public Safety	Other
City/County Sheriff's Office	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Police Department	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Department	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Medical Services (EMS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Safety Agency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**The State of Nevada - User Survey**

Thank you for helping us to clarify the data communications needs of your public safety agency. The information and insights will help the State of Nevada better address the challenges public safety networks that will be led by the First Responder Network Authority (FirstNet). For more information about FirstNet in Nevada, please visit our website at [www.firstnet.com](http://www.firstnet.com).

Please give your best answer to those questions that apply to you.

Note: Click and drag the browser back or forward buttons, or you may lose your progress. Please use the back and forward buttons at the bottom of every page.

101. Name:

102. Street address:

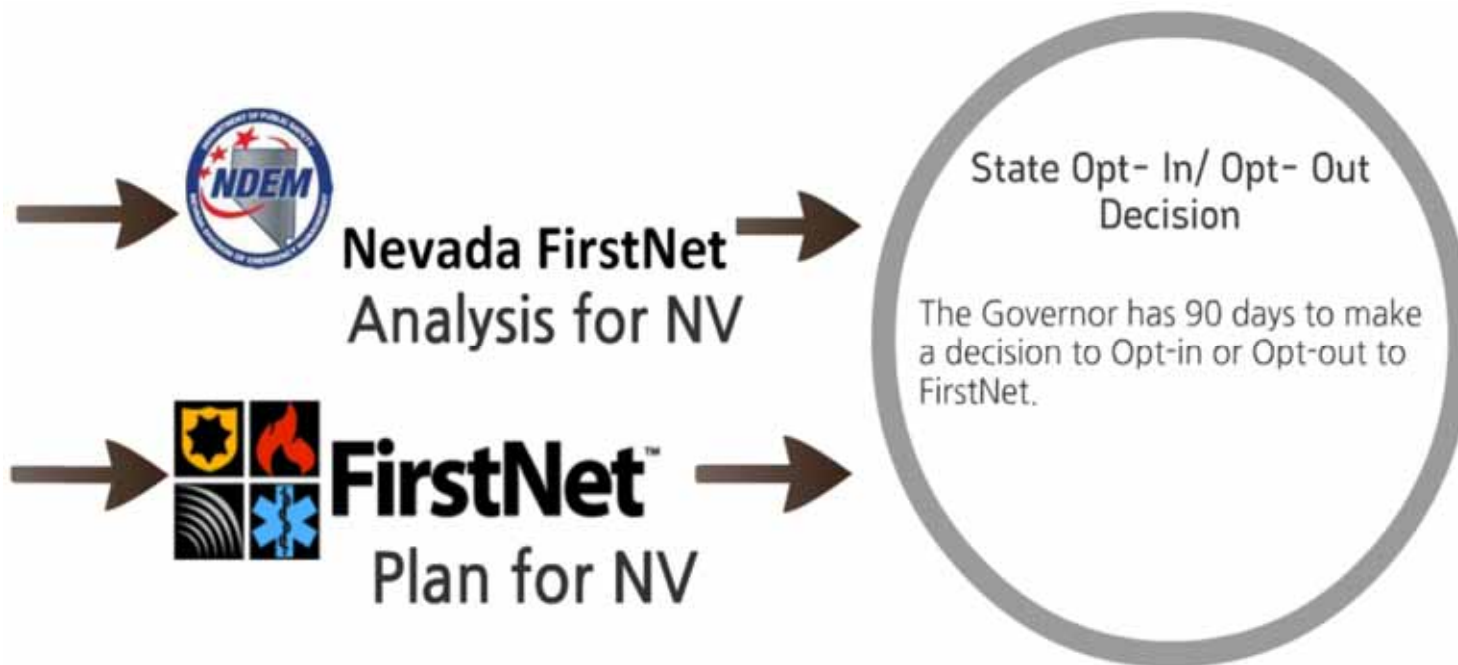
103. Phone or cell number address:  Example: 101 Apple Street, Las Vegas, NV 89101

104. Please select county:

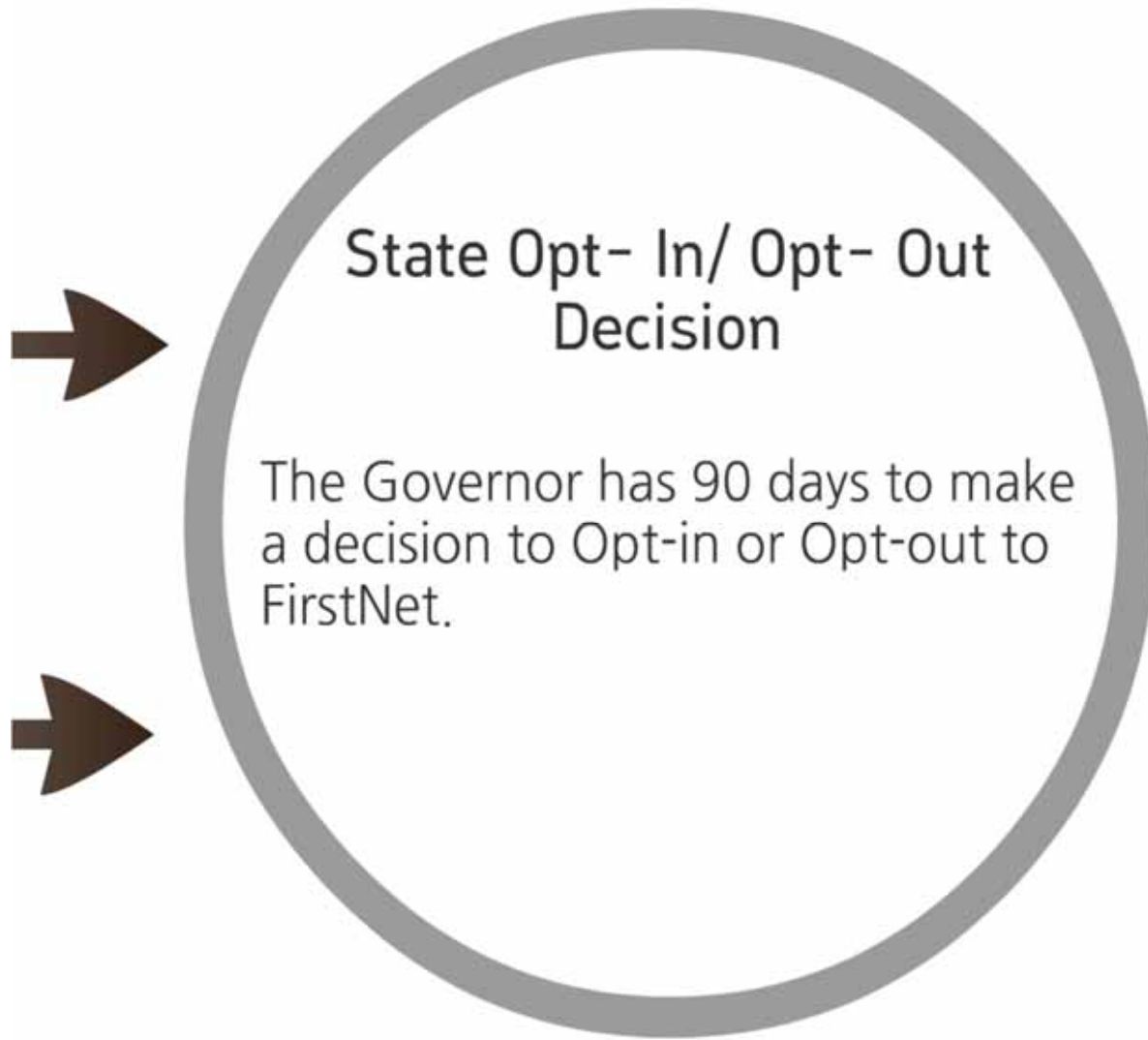
105. Please select your Public Safety Category:



# NV-FirstNet High-level Process



# NV-FirstNet High-level Process



# Stakeholder Discussion

Col. Ken Morckel (Ret.)  
NV-FirstNet PS SME ( C )



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# Stakeholder Inputs



## State Consultation

1. Construction of a Core and RAN build out
2. Placement of towers
3. Coverage areas of the network
4. Adequacy of hardening, security, reliability, and resiliency
5. Assignment of priority to local users
6. Assignment of priority and selection of entities seeking access to or use of the network
7. Training needs of local users



# Stakeholder Inputs Critical

## Coverage

### Where?

- Where Needed (Objectives)
- Different Device Types
- Throughput levels

## Capacity

### How Much?

- # of Users and Devices
- Application Usage
- Data Consumption

## FirstNet Financial Team

- Request for Proposals (RFP) Development/Evaluation
- Economic Modeling



FirstNet  
Baseline

## FirstNet Engineering Team

- RFP Development/Evaluation
- Core, radio access network (RAN) and Devices



# Our Stakeholders are the Key to Our Success

**The ability to make the best decision depends on the amount of information gathered**







# Break



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# Capacity and Coverage Requirements Overview

Gene Robinson

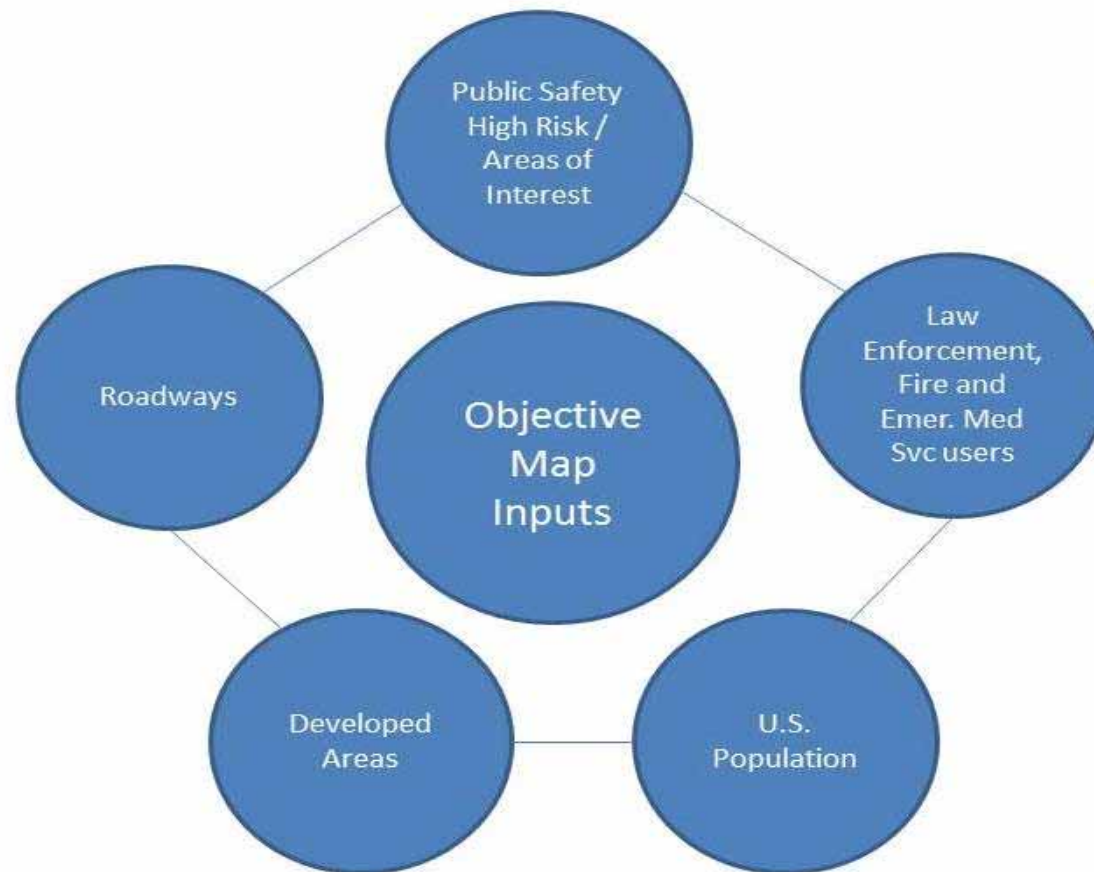
NV-FirstNet Technical SME (C)



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# Coverage and Capacity Study FirstNet Data Collection Elements



# NV FirstNet Coverage and Capacity Study

## Step 1

### Develop Coverage and Capacity Study Inputs

#### Inputs

- NV Agency/User Survey Results and PSAP Data (if available)
- NV Baseline Coverage Level Definitions and GIS model

#### Outputs

- Finalized Coverage and Capacity Study Inputs

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Color	Coverage Area	Description
<b>RED</b>	<b>High concentration</b>	This would indicate an amount of users, areas of interest, U.S., developed areas and roadways which translate to a high likelihood for public safety responses.
<b>BLUE</b>	<b>Moderate concentration</b>	This would indicate an amount of users, areas of interest, U.S., developed areas and roadways which translate to a moderate likelihood for public safety responses.
<b>GREEN</b>	<b>Low concentration</b>	This would indicate an amount of users, areas of interest, U.S., developed areas and roadways which translate to a low likelihood for public safety responses.
<b>GREY</b>	<b>On demand temporary or extended range coverage (Remote - satellite/deployable coverage)</b>	This would indicate an amount of users, areas of interest, U.S., developed areas and roadways which translate to a low likelihood for public safety responses.



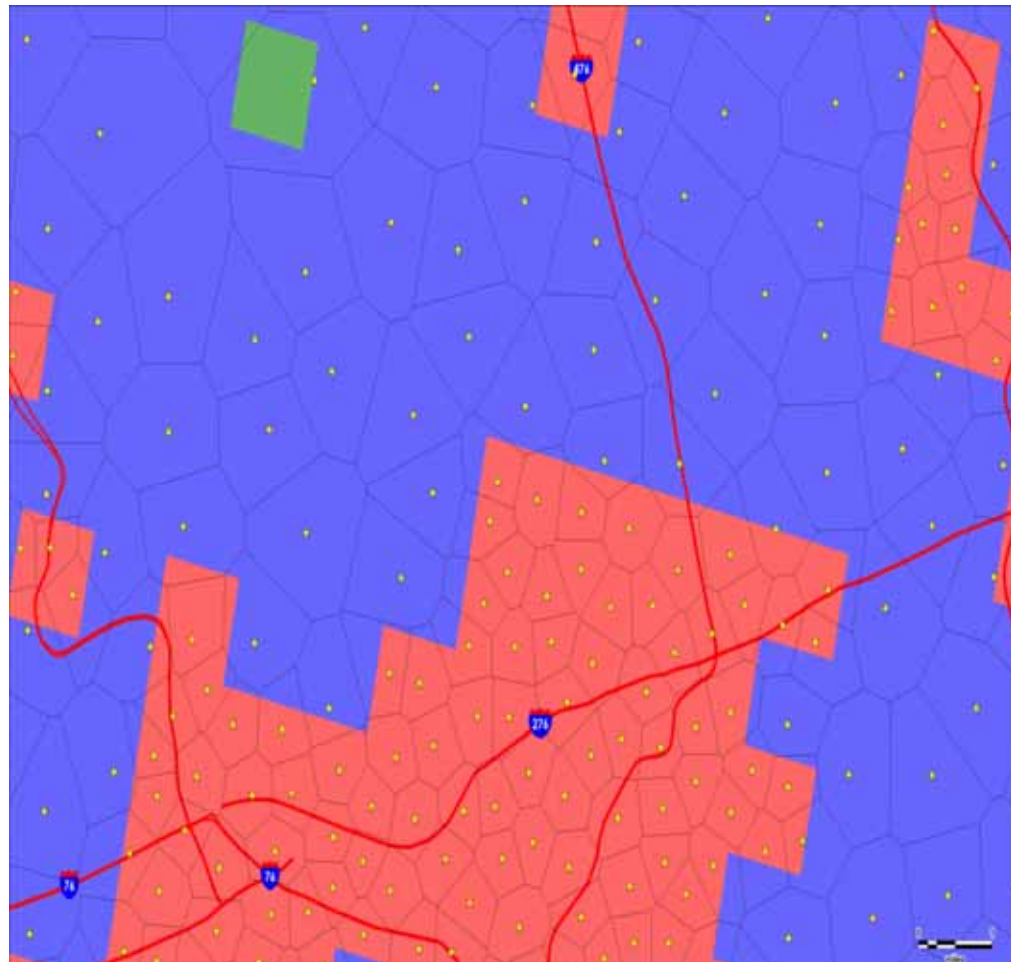
## NV FirstNet Coverage and Capacity Study

Step 2

Dimensioning

### Outputs

- Nominal statewide base station count
- Representative area GIS model for each baseline coverage level





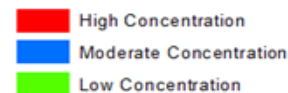
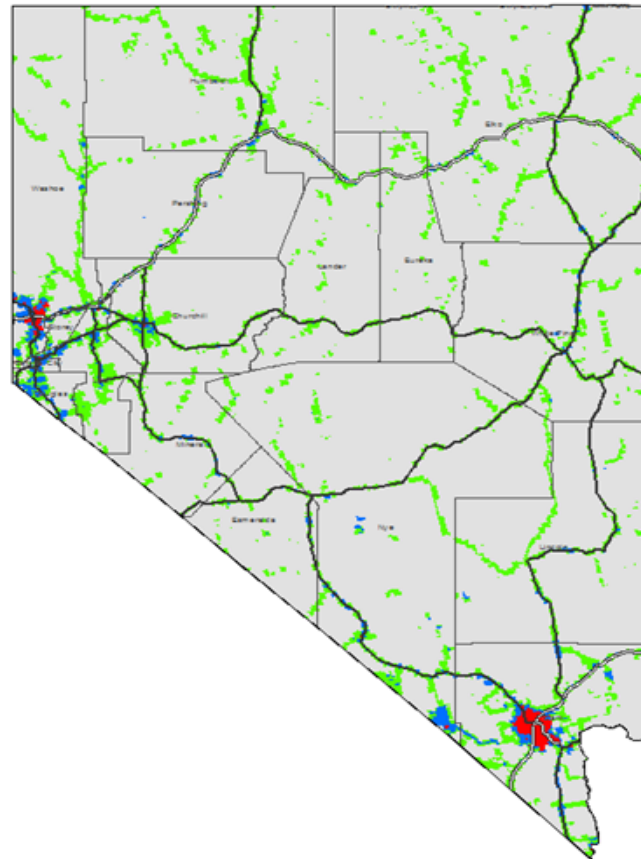
# NV FirstNet Coverage and Capacity Study

## Step 3

Coverage Prediction  
Examples using  
Specialized Software

### Outputs

- Comparison of baseline coverage level GIS models from the dimensioning step
- Single/multiple site coverage prediction steps



# NV FirstNet Coverage and Capacity Study

## Step 4

### Coverage and Capacity Study Report

#### Outputs

- Final Coverage and Capacity Study Report
- PSAP Data Overlay
- Coverage Objectives
- Phased Deployment

#### 1b. Phased Deployment

**INSTRUCTIONS:** Provide a description of the proposed incremental deployment phases (suggest a minimum of 5) that would achieve the desired coverage objectives identified in 1a. As necessary, consider providing maps that clearly identify each incremental deployment phase.

**DELIVERABLE/FORMAT:** Word, PPT, PDF and, as necessary, maps in GIS compatible format (.shp, .info, .kml/.kmz, etc.)

Coverage Objective	Phased Deployment
• Objective 1	Phase →
• Objective 2	Phase →
• Objective 3	Phase →
• Objective 4	Phase →
• Objective 5	Phase →





# NV FirstNet Coverage and Capacity Study

## B&V Requests and Next Steps

### Requested Direction from Nevada

- Electronic NV baseline data
  - Survey data
  - PSAP data
  - Coverage objective definitions
  - GIS coverage model
  - Identify critical coverage areas (nuclear power plants, dams, major events, etc.)

### B&V Next Steps

- Perform Dimensioning
- Perform Coverage Prediction  
Examples using Specialized Software
- Create Final Coverage and Capacity Study Report and Meet FirstNet Requirements



# Data Collection and Survey Submission Session

Ayrielle LeGrande

NV-FirstNet Data Collection SME (C)



Nevada FirstNet



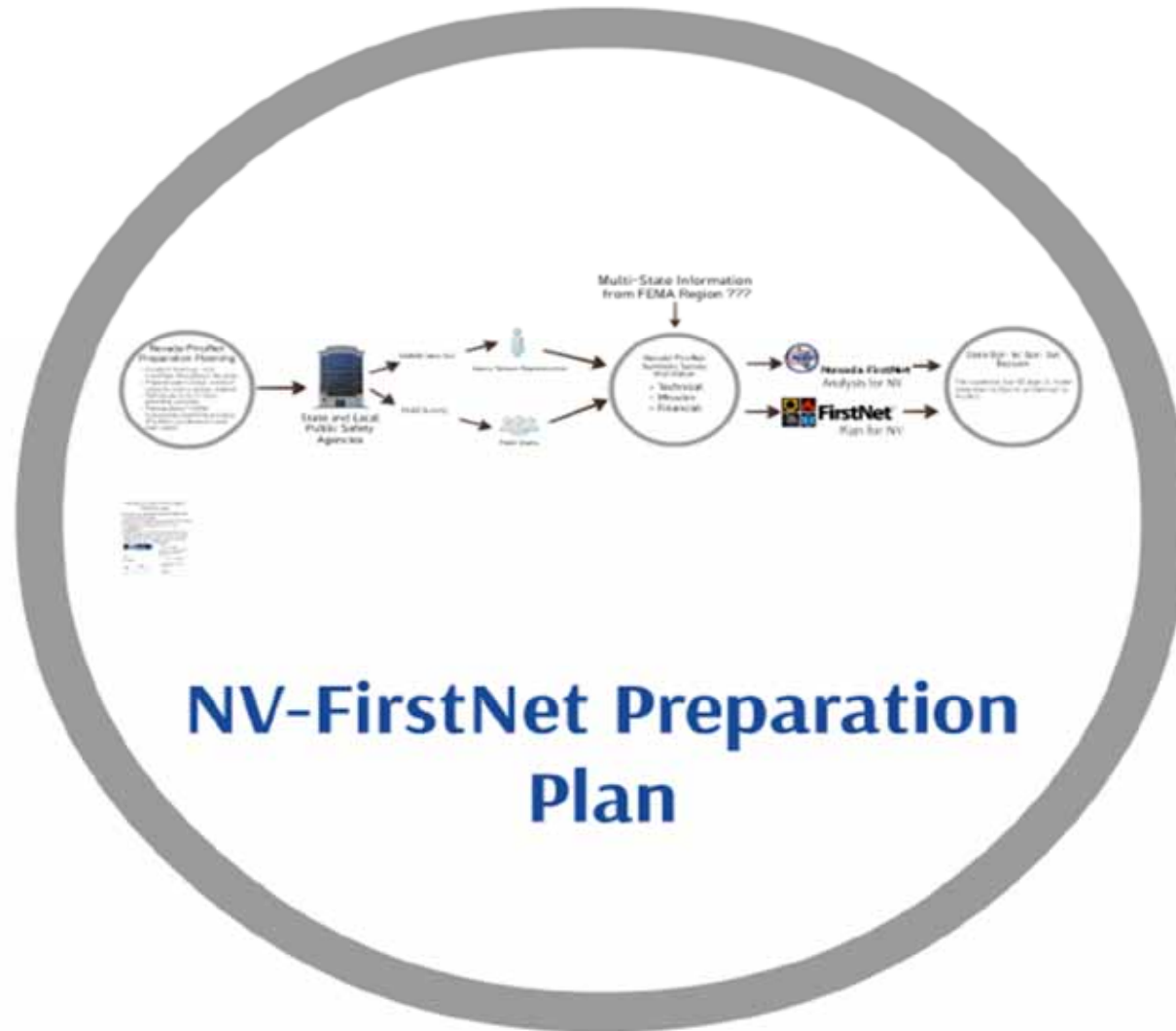
# NV-FirstNet MDT Workshop



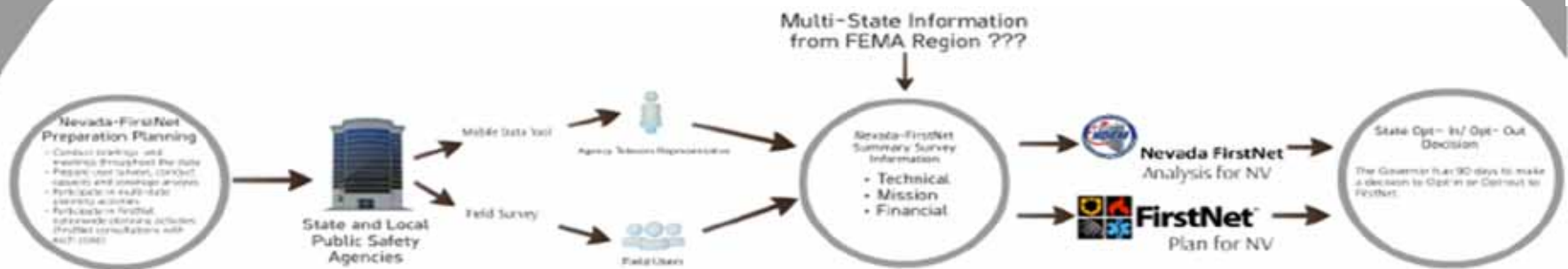
## NV-FirstNet Data Collection and Survey Submission Session



# NV-FirstNet MDT Workshop



# NV-FirstNet MDT Workshop



**Qualification Requirements**  
- Current status  
- Agency name  
- Agency address  
- Agency phone number  
- Agency email address  
- Agency website  
- Agency type  
- Agency role  
- Agency contact person  
- Agency contact phone number  
- Agency contact email address  
- Agency contact website  
- Agency contact person title  
- Agency contact person email address  
- Agency contact person phone number  
- Agency contact person website  
- Agency contact person title  
- Agency contact person email address  
- Agency contact person phone number  
- Agency contact person website

## NV-FirstNet Preparation



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# NV-FirstNet MDT Workshop

## Nevada-FirstNet Preparation Online Survey

- Information will gathered by Mobile Data Tool and User Survey
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**1. Distribution area is:**

**2. Non-geographic boundaries:**

**3. Do boundaries that do not fit you work fit?**

**4. Primary jurisdictional or jurisdictional agency:**

**5. Managing your public safety jurisdiction:**

**6. Number of agencies with jurisdiction:**

**7. A, MDT Use and Situation**

	Single-Carrier	Secure	Not available for	None	Other
1. Law Enforcement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Fire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Public Safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**8. Name:**

**9. Email address:**

**10. Please provide mailing address. Example: 123 Apple Street, Las Vegas, NV 89101**

**\*\*Note: If you're representing a state agency please select STATE/NGOC**

**11. Please select County:**

**\*\*Note: If you're representing a non-state agency please select from Application**

**12. Please select your Public Safety Category:**

- Law Enforcement
- Fire
- Emergency Medical Services (EMS)
- Public Safety Communications
- Emergency Management (EMM)
- Public Safety - Emergency Services
- Health - Public Safety
- Training and Testing
- Information Technology / Services
- Other

**13. State Agency / Other:**



# NV-FirstNet MDT Workshop





# NV-FirstNet MDT Workshop



## NV-FirstNet Mobile Data Tool Workshop



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# Opening the Survey

To begin the Mobile Data Tool Survey please click the link below:

[http://publicsafetytools.info/mobile\\_data\\_survey/index.php](http://publicsafetytools.info/mobile_data_survey/index.php)

Upon clicking the link please select Nevada as your state. The following slides will guide you through the survey.



# NV-FirstNet MDT Workshop

**Mobile Data - Current State Survey**

**Introduction:**


The Department of Homeland Security (DHS) Office of Emergency Communications (OEC) Interoperable Communications Technical Assistance Program (OECICTAP) developed this survey tool to assist local, regional, tribal, state, and Federal agencies in collecting information on the current and desired future state of wireless data services in preparation for the build-out of a new Nationwide Public Safety Broadband Network (NPSBN). This online collection tool provides a convenient method to collect current usage, system costs, and user needs from public safety stakeholders.

Completion of this questionnaire is entirely voluntary and results are made available to appropriate stakeholders within each state or organization. Your cooperation in completing this survey with validated information will greatly contribute to the value of that information.

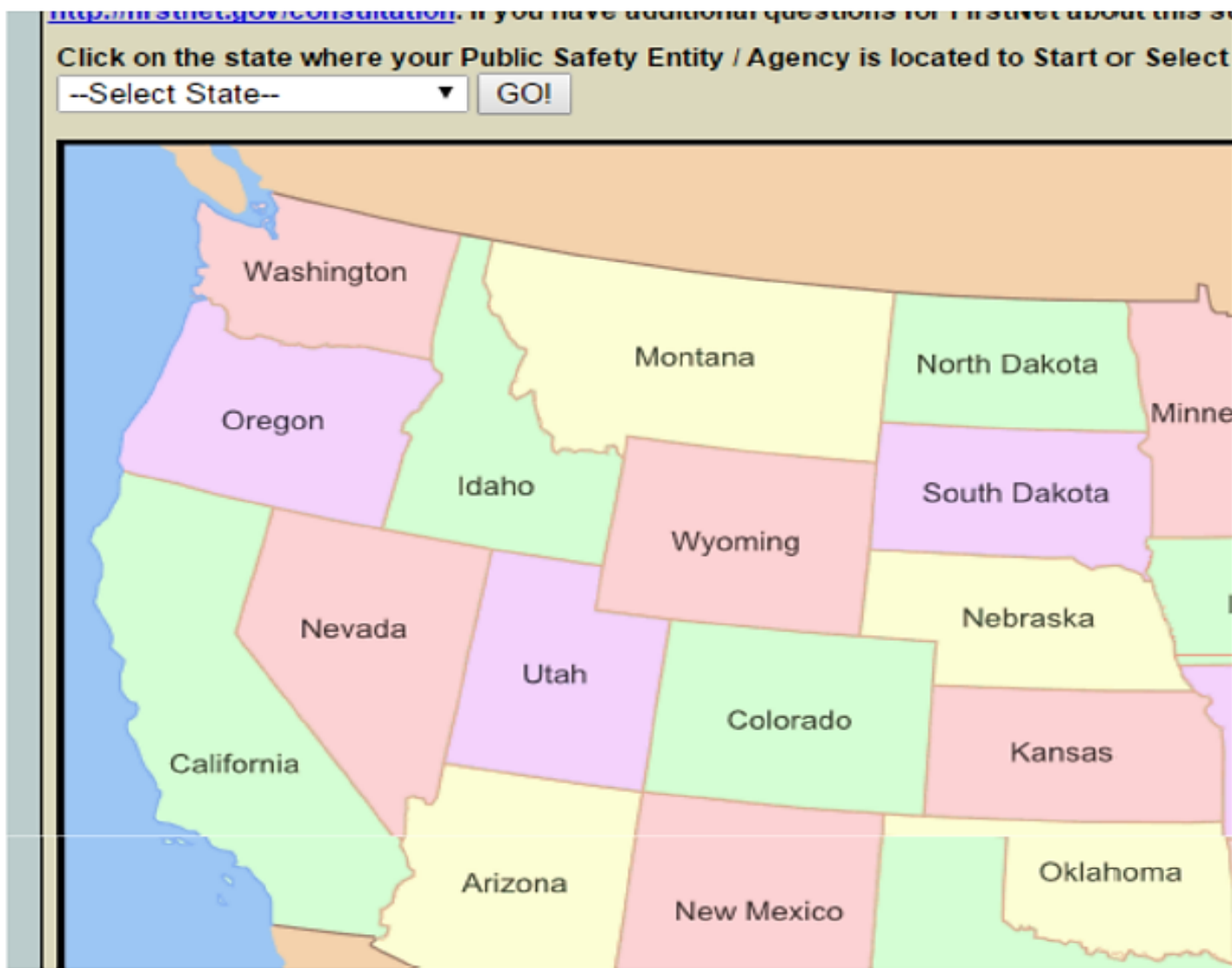
If you have questions about this survey or its content, please contact your state or territory's FirstNet single point of contact (SPOC). A list of all 56 SPOCs may be found at the bottom of this FirstNet webpage: <http://firstnet.gov/consultation>. If you have additional questions for FirstNet about this survey, you are welcome to address those to [datacollection@firstnet.gov](mailto:datacollection@firstnet.gov).

Click on the state where your Public Safety Entity / Agency is located to Start or Select it from the list:

--Select State--



# NV-FirstNet MDT Workshop



# NV-FirstNet MDT Workshop

## Mobile Data - Current State Survey

### Introduction:

The questions included in this survey are listed on the page below. Before continuing with the survey, please review these questions to ensure that you have the necessary information to complete the survey. A complete list of questions and answer selections is available through this [link](#).

### Agency Information

Organization type	Agency Discipline
State, County, City	Agency Name
Number of full time, part time employees and volunteers	Your name and contact information
Number of response or operations vehicles in your agency	

### Devices

Number of Voice/Data devices assigned to personnel	Number of Voice/Data devices assigned to vehicles
Number of Data only devices assigned to personnel	Number of Data only devices assigned to vehicles
Use of personal devices for agency business and compensation	Number of Other devices assigned to vehicles
Use of Machine to Machine Devices (cameras, sensors)	Planned changes in the numbers of devices used

### Applications

Frequency of use and primary application used in each of 12 application categories:	Communications, Voice over IP, AVL, Locations Services, CAD, Database Inquiries, Internet/Email, Field Based Reporting, Video, Telemetry
---	--

### Service Plans

Single or multiple service providers	Use of commercial or shared paging systems
Procurement process used	Other available procurement options
Relationship with sales/account manager for provider	Relationship with technical support staff for provider
Other specialized services or support from provider	Contract duration
Monthly cost per device for data/voice plan	Monthly cost per device for data only plan
Plan information, fixed/variable rate, data caps	Average monthly data usage per device

### Barriers

Cost	Network Reliability
Security	Coverage
Expertise	



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# NV-FirstNet MDT Workshop

Single or multiple service providers

Procurement process used

Relationship with sales/account manager for provider

Other specialized services or support from provider

Monthly cost per device for data/voice plan

Plan information, fixed/variable rate, data caps

Cost

Security

Expertise

Quit Survey

Take Survey



# NV-FirstNet MDT Workshop – PSE Info

Mobile Data - Current State Survey Section 1 of 6  
Public Safety Entity (PSE) Name:

**Section Navigation**

- 1. PSE Info
- 2. Device Page
- 3. Applications
- 4. Current Providers
- 5. Device Case
- 6. Submit Survey

**PSE Info (2a)**

\* indicates required field

Follow these steps in order to select your PSE Agency.  
Area of operation or local headquarters:

-Agency List Filter Criteria (these selections limit agencies presented below)-

\* Select the State or Territory: Select the County: Select the City:  
Nevada Select County... Select City...

Select your Level of Government:  
-Select Level of Government-

Select the discipline that best describes your PSE Agency or division:  
-Select Discipline-

\* Select your Agency:

- 911 Emergency Services (Nevada)
- 52nd Civil Support Team (VMD) (Las Vegas)
- Amargosa Vly Vol Fire Dept (Amargosa Valley)
- Amargosa Vol Arab Soc (Amargosa Valley)
- American Medical Response (Las Vegas)
- American Red Cross (Reno) (Reno)
- American Red Cross - Southern Nevada Chapter (Reno)
- AMR (Las Vegas)
- Austin Volunteer Ambulance Service
- Austin Volunteer Fire Department (Austin)
- Banner Churchill County Hospital (Fallon)
- Berkshire Subdivison Fire Rescue (Blairstown)

\* indicates required field

1. # of Employees

2. # of Full Time Employees

3. # of Part Time Employees

4. # of Volunteers

5. # of Vehicles for Operations

6. Comments

**Survey Respondent Contact Information:**  
This is the person responsible for identifying responses and will be the single contact for future survey updates.

Prefix: \* First Name: MI: \* Last Name: Suffix:

Title:

Phone:

\* Email:

*It is important to remember that if you need to save you may do so here at the bottom of each page moving forward.*





# NV-FirstNet MDT Workshop – PSE Info

## PSE Info (2a)

\* indicates required field.

Follow these steps in order to select your PSE/Agency.

Area of operation or local headquarters:

Agency List Filter Criteria (these selections limit agencies presented below)

\* Select the State or Territory:  Select the County:  Select the City:

Select your Level of Government:

Select the discipline that best describes your PSE/Agency or division:

\* Select your Agency:

Reset Search

911 Emergency Services (Minden)  
92nd Civil Support Team (WMD) (Las Vegas)  
Amargosa Vly Vol Fire Dept (Amargosa Valley)  
Amargosa Vol Amb Svc (Amargosa Valley)  
American Medical Response (Las Vegas)  
American Red Cross (Reno) (Reno)  
American Red Cross - Southern Nevada Chapter (Reno)  
AMR (Las Vegas)  
Austin Volunteer Ambulance Service  
Austin Volunteer Fire Department (Austin)  
Banner Churchill Cmnty Hospital (Fallon)  
Barrick Goldstrike Mine Rescue (Elko)

\* indicates required field



# NV-FirstNet MDT Workshop – PSE Info

Austin Volunteer Fire Department (Austin)  
Banner Churchill Cmnty Hospital (Fallon)  
Barrick Goldstrike Mine Rescue (Elko)

\* indicates required field.

1. # of Employees

2. # of Full Time Employees

3. # of Part Time Employees

4. # of Volunteers

5. # of Vehicles for Operations

6. Comments

## Survey Respondent Contact Information:

This is the person responsible for clarifying responses and will be the single contact for future survey updates.

Prefix: \* First Name: MI: \* Last Name: Suffix:



# NV-FirstNet MDT Workshop – PSE Info (Survey Respondent Contact Information)

5. # of vehicles for Operations

6. Comments

**Survey Respondent Contact Information:**  
This is the person responsible for clarifying responses and will be the single contact for future survey updates.



Prefix:  \* First Name:  MI:  \* Last Name:  Suffix:

Title:

Phone:

\* Email:

It is important to remember that if you need to save you may do so **here** at the bottom of each page moving forward.



# NV-FirstNet MDT Workshop – Devices

Mobile Data – Current State Survey  
Public Safety Entity (PSE) Name: Carson City Health and Human Services  
Section 2 of 6

**Section Navigation**

- 1. PSE Info
- 2. Devices Page
- 3. Applications
- 4. Current Providers
- 5. Barriers Page
- 6. Submit Survey

**Devices Page (2b)**

**AGENCY ISSUED DEVICES - PERSONNEL**

1. # of Voice/Data Devices Assigned to Personnel (Smartphones, cellphones)

2. # of Data Devices Assigned to Personnel (USB Modems, vehicular modems, mobile hotspots, integrated modems such as tablets or laptops)

3. # of Other Devices Assigned to Personnel, including private data devices

**AGENCY ISSUED DEVICES - VEHICLES (not accounted for above)**

4. # of Voice/Data Devices Assigned to Vehicles (Smartphones, cellphones)

5. # of Data Devices Assigned to Vehicles (USB Modems, vehicular modems, mobile hotspots, integrated modems such as tablets or laptops)

6. # of Other Devices Assigned to Vehicles, including private data devices

**PERSONALLY OWNED DEVICES**

7. Are employees allowed to use personally owned devices to perform any type of work functions?  
--Select--

8. Are personally owned devices allowed to connect to any official applications/services i.e. email, internal databases, etc.?  
--Select--

9. Is any compensation provided to employees for use of personally owned devices?  
--Select--

**GENERAL**

10. Does your agency use Machine to Machine (M2M) devices that use wireless connections? (Cameras, sensors, etc.)  
--Select--

11. # of Machine to Machine (M2M) Devices, if applicable

12. Identify near term planned changes (if any) that could impact these device counts significantly i.e. deployment of cellular enabled tablets?  
--Select--

13. Comments on Devices

**Callouts:**

- A Mobile Hotspot is a Portable Wi-Fi Generator.
- Machine to Machine (M2M) Device – any device that communicates with other network devices without end-user interaction. EX: A license plate reader.



# NV-FirstNet MDT Workshop – Devices (Personnel & Vehicles)

vey

erson City Health and Human Services

## Devices Page (2b)

**AGENCY ISSUED DEVICES - PERSONNEL**

1. # of Voice/Data Devices Assigned to Personnel (Smartphones, cellphones)

2. # of Data Devices Assigned to Personnel (USB Modems, vehicular modems, mobile hotspots, integrated modems such as tablets or laptops)

3. # of Other Devices Assigned to Personnel, including private data devices

**AGENCY ISSUED DEVICES - VEHICLES (not accounted for above)**

4. # of Voice/Data Devices Assigned to Vehicles (Smartphones, cellphones)

5. # of Data Devices Assigned to Vehicles (USB Modems, vehicular modems, mobile hotspots, integrated modems such as tablets or laptops)

6. # of Other Devices Assigned to Vehicles, including private data devices

**PERSONALLY OWNED DEVICES**

A Mobile Hotspot is a Portable Wi-Fi Generator



# NV-FirstNet MDT Workshop – Devices (Personally Owned Devices)

## PERSONALLY OWNED DEVICES

7. Are employees allowed to use personally owned devices to perform any type of work functions?

--Select-- ▼

8. Are personally owned devices allowed to connect to any official applications/services i.e. email, internal databases, etc.?

--Select-- ▼

9. Is any compensation provided to employees for use of personally owned devices?

--Select-- ▼



# NV-FirstNet MDT Workshop – Devices (General)


**GENERAL**

10. Does your agency use Machine to Machine (M2M) devices that use wireless connections? (Cameras, sensors, etc.)

11. # of Machine to Machine (M2M) Devices, if applicable

12. Identify near term planned changes (if any) that could impact these device counts significantly i.e. deployment of cellular enabled tablets?

13. Comments on Devices



**Machine to Machine (M2M) Device** - any device that communicates with other network devices without end-user interaction. EX: A license plate reader.





# NV-FirstNet MDT Workshop – Application Section

Mobile Data - Current State Survey Section 3 of 6

Public Safety Entity (PSE) Name: Carson City Health and Human Services

**Section Navigation**

- 1. [PSE Info](#)
- 2. [Devices Page](#)
- 3. **Applications**
- 4. [Current Providers](#)
- 5. [Barriers Page](#)
- 6. [Submit Survey](#)

**Applications (3a)**

APPLICATIONS / FREQUENCY OF USE

1. Primary Application Used For Communications (texting, paging)  
--Select--

2. Frequency of Use (Communications)  
--Select--

3. Primary Application Used For Over the Top Voice (e.g. Skype)  
--Select--

4. Frequency of Use (Over the Top Voice)  
--Select--

5. Primary Application Used For Automatic Vehicle Location (AVL)  
--Select--

6. Frequency of Use (Automatic Vehicle Location)  
--Select--

7. Primary Application Used For Location Services (Mapping, routing)  
--Select--

8. Frequency of Use (Location Services)  
--Select--

9. Primary Application Used For Computer Aided Dispatch (CAD)  
--Select--

10. Frequency of Use (Computer Aided Dispatch)  
--Select--

11. Primary Application Used For Database Inquiries  
--Select--

In broadcasting, **Over-the-Top Voice** refers to delivery of audio content over the internet without the involvement of a major internet provider.

**Computer Aided Dispatch (CAD)** is software used to initiate public safety response, dispatch, and to maintain the status of responding resources in the field. EX: used by emergency communications dispatchers.

FAQ



# NV-FirstNet MDT Workshop – Application Section

Las Vegas City Health and Human Services

### Applications (3a)

APPLICATIONS / FREQUENCY OF USE

1. Primary Application Used For Communications (texting, paging)  
--Select--

2. Frequency of Use (Communications)  
--Select--

3. Primary Application Used For Over the Top Voice (e.g. Skype)  
--Select--

4. Frequency of Use (Over the Top Voice)  
--Select--

5. Primary Application Used For Automatic Vehicle Location (AVL)  
--Select--

6. Frequency of Use (Automatic Vehicle Location)  
--Select--

7. Primary Application Used For Location Services (Mapping, routing)  
--Select--

8. Frequency of Use (Location Services)  
--Select--

In broadcasting, **Over-the-Top Voice** refers to delivery of audio content over the internet without the involvement of a major internet provider.



# NV-FirstNet MDT Workshop – Application Section

8. Frequency of Use (Location Services)  
--Select--

9. Primary Application Used For Computer Aided Dispatch (CAD)  
--Select--

10. Frequency of Use (Computer Aided Dispatch)  
--Select--

11. Primary Application Used For Database Inquiries  
--Select--

12. Frequency of Use (Database Inquiries)  
--Select--

13. Primary Application Used For General connectivity (email, internet, file transfers)  
--Select--

14. Frequency of Use (General connectivity)  
--Select--

15. Primary Application Used For Field Based Reporting  
--Select--

16. Frequency of Use (Field Based Reporting)  
--Select--

17. Primary Application Used For Intranet Access/Mobile VPN solution

**Computer Aided Dispatch (CAD)** is software used to initiate public safety response, dispatch, and to maintain the status of responding resources in the field. EX: used by emergency communications dispatchers.



# NV-FirstNet MDT Workshop – Application Section

17. Primary Application Used For Intranet Access/Mobile VPN solution

--Select--

18. Frequency of Use (Intranet Access/Mobile VPN solution)

--Select--

19. Primary Application Used For Video

--Select--

20. Frequency of Use (Video)

--Select--

21. Primary Application Used For Telemetry

--Select--

22. Frequency of Use (Telemetry)

--Select--

23. Other Primary Application Used (Specify)

--Select--

24. Frequency of Use (Other Application)

--Select--

25. Comments on Applications

[Next Page](#) [Save for Later](#)



# NV-FirstNet MDT Workshop – Current Providers

Mobile Data - Current State Survey Section 4 of 8  
Public Safety Entity (PSE) Name: Carson City Health and Human Services

**Section Navigation**

- 1. PSE Info
- 2. Devices Page
- 3. Applications
- 4. Current Providers
- 5. Barriers Page
- 6. Submit Survey

**Current Providers (4a)** FAQ

**CURRENT SERVICE PROVIDERS**

1. Does your agency contract with multiple service providers?  
--Select--

2. Explain your use of multiple service providers, if applicable.

3. Does your agency use a commercial or shared paging system?  
--Select--

4. Explain your use of commercial or shared paging systems, if applicable.

**PROCUREMENT (Primary Provider)**

5. What procurement process was utilized?  
--Select--

6. Are other procurement options available?  
--Select--

7. Describe additional procurement options available to you, if applicable.

8. Does your agency have a direct sales/account relationship with the provider?  
--Select--

9. Does your agency have a direct technical support relationship with the provider?  
--Select--

10. Are any additional or specialized services provided by the provider?  
--Select--

11. Describe additional or specialized services supplied by the provider, if applicable.

**SERVICE PLANS (Primary Provider)**

12. What is the average monthly cost per device for voice/data devices, NOT inclusive of additional costs and fees (taxes, apps, etc.)?

13. What is the average monthly cost per device for data only devices, NOT inclusive of additional costs and fees (taxes, apps, etc.)?



# NV-FirstNet MDT Workshop – Current Providers (Current Service Providers)

Survey

Carson City Health and Human Services

## Current Providers (4a)

### CURRENT SERVICE PROVIDERS

1. Does your agency contract with multiple service providers?

--Select-- ▼

2. Explain your use of multiple service providers, if applicable.

3. Does your agency use a commercial or shared paging system?

--Select-- ▼

4. Explain your use of commercial or shared paging systems, if applicable.

### PROCUREMENT (Primary Provider)

5. What procurement process was utilized?

--Select-- ▼



Nevada FirstNet



# NV-FirstNet MDT Workshop – Current Providers (Procurement)

## PROCUREMENT (Primary Provider)

5. What procurement process was utilized?

--Select-- ▼

6. Are other procurement options available?

--Select-- ▼

7. Describe additional procurement options available to you, if applicable.

8. Does your agency have a direct sales/account relationship with the provider?

--Select-- ▼

9. Does your agency have a direct technical support relationship with the provider?

--Select-- ▼

10. Are any additional or specialized services provided by the provider?

--Select-- ▼

11. Describe additional or specialized services supplied by the provider, if applicable

## SERVICE PLANS (Primary Provider)

12. What is the average monthly cost per device for voice/data devices, NOT inclusive of additional costs and fees (taxes, apps, etc.)?





# NV-FirstNet MDT Workshop – Current Providers (Service Plans)

**SERVICE PLANS (Primary Provider)**

12. What is the average monthly cost per device for voice/data devices, NOT inclusive of additional costs and fees (taxes, apps, etc.)?

13. What is the average monthly cost per device for data only devices, NOT inclusive of additional costs and fees (taxes, apps, etc.)?

14. How important is having a fixed rate plan?

15. Who is responsible for payment of the invoice?

16. What are the monthly data limits on the plan?

17. What is the contract duration of your current plan (years)?

18. What is the average monthly data usage per user (Gb)?

19. Comments on Current Providers



# NV-FirstNet MDT Workshop – Barriers Section

**Mobile Data - Current State Survey** Section 5 of 6

Public Safety Entity (PSE) Name: Carson City Health and Human Services

Section Navigation	Barriers Page (4b)
<ul style="list-style-type: none"><li>1. <a href="#">PSE Info</a></li><li>2. <a href="#">Devices Page</a></li><li>3. <a href="#">Applications</a></li><li>4. <a href="#">Current Providers</a></li><li>5. Barriers Page</li><li>6. <a href="#">Submit Survey</a></li></ul>	<p><b>BARRIERS - Does this barrier limit or prevent the agency from realizing the full potential of mobile data services?</b></p> <p>1. Cost: Agency does not have budget to purchase required data plans or devices <input type="text" value="-Select-"/></p> <p>2. Network Reliability: Speed and efficiency of data services provided from the network does not meet requirements (i.e. slow speeds, congestion, frequent outages, etc.) <input type="text" value="-Select-"/></p> <p>3. Security: Use of data services is limited due to security reasons (i.e. wireless network security level does not meet agency policy and data transmission is limited) <input type="text" value="-Select-"/></p> <p>4. Coverage: Coverage of wireless data network does not meet agency operational requirements (i.e. dead spots through operational area) <input type="text" value="-Select-"/></p> <p>5. Expertise: Agency does not have the knowledge base within its employees to fully utilize available wireless data services <input type="text" value="-Select-"/></p> <p>6. Comments on Barriers <input type="text"/></p> <p><input type="button" value="Next Page"/> <input type="button" value="Save for Later"/></p>



# NV-FirstNet MDT Workshop – Barriers Section

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n City Health and Human Services

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**Barriers Page (4b)**

**BARRIERS - Does this barrier limit or prevent the agency from realizing the full potential of mobile data services?**

1. Cost: Agency does not have budget to purchase required data plans or devices

2. Network Reliability: Speed and efficiency of data services provided from the network does not meet requirements (i.e. slow speeds, congestion, frequent outages, etc.)

3. Security: Use of data services is limited due to security reasons (i.e. wireless network security level does not meet agency policy and data transmission is limited)

4. Coverage: Coverage of wireless data network does not meet agency operational requirements (i.e. dead spots through operational area)

5. Expertise: Agency does not have the knowledge base within its employees to fully utilize available wireless data services

6. Comments on Barriers



# NV-FirstNet MDT Workshop – Submit Survey

**Mobile Data - Current State Survey** Section 6 of 6

Public Safety Entity (PSE) Name: Carson City Health and Human Services

Section Navigation	Submit Survey
<ul style="list-style-type: none"><li>1. <a href="#">PSE Info</a></li><li>2. <a href="#">Devices Page</a></li><li>3. <a href="#">Applications</a></li><li>4. <a href="#">Current Providers</a></li><li>5. <a href="#">Barriers Page</a></li><li>6. <b>Submit Survey</b></li></ul>	<p>Once you select <b>Save for Later</b>, an e-mail will be sent to the address you provided on Page 1 which will contain a link back to this survey, so that you can continue to make edits before submitting.</p> <p>If you select <b>Submit Survey</b> you will also get an e-mail with a link that will allow you to come back to your survey and update those responses. When you Submit a survey an e-mail is forwarded to any agency POC(s), the State FirstNet SPOC, if they are identified in CASM as a user or POC with the "SPOC position", and the POC listed on Page 1 of the survey, alerting them of the completed survey.</p> <p><input type="button" value="Save for Later"/> <input type="button" value="Submit Survey"/></p>



# NV-FirstNet MDT Workshop – Submit Survey

vey Section 6 of 6

son City Health and Human Services

## Submit Survey

Once you select **Save for Later**, an e-mail will be sent to the address you provided on Page 1 which will contain a link back to this survey, so that you can continue to make edits before submitting.

If you select **Submit Survey** you will also get an e-mail with a link that will allow you to come back to your survey and update those responses. When you Submit a survey an e-mail is forwarded to any agency POC(s), the State FirstNet SPOC, if they are identified in CASM as a user or POC with the "SPOC position", and the POC listed on Page 1 of the survey, alerting them of the completed survey.



# NV-FirstNet MDT Workshop





# Questions and Answers





# Contact Us

by Email

[DHSGrants@dps.state.nv.us](mailto:DHSGrants@dps.state.nv.us)

Sign up for updates

<http://tinyurl.com/nv-firstnet>

Website

<http://dem.nv.gov>



Nevada FirstNet



# Closing Remarks



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