



# **State of Nevada FirstNet Statewide Data Collection Webinar**

**September 23, 2015**



# Agenda

- Introductions
- FirstNet Overview
- NV FirstNet Project Overview
- Capacity and Coverage Requirements Overview
- Data Collection & Survey Submission Session
- Questions &Answers



# 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™ LTE Device**



Data

Smart Phone –

 **FirstNet™ LTE Device**



Data

Voice

Land Mobile Radio  
Public Safety  
System/Spectrum



Voice



Nevada FirstNet

 **The Digital Decision**

# Nationwide Vision



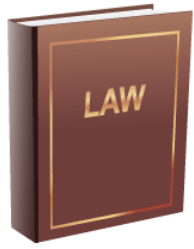
Map from Mosaik Solutions LLC

## PUBLIC SAFETY NEEDS

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



# Implementing the Vision



## THE LAW

2.22.12

FirstNet becomes law  
PL 112-96

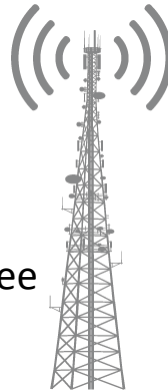
## GOVERNANCE



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



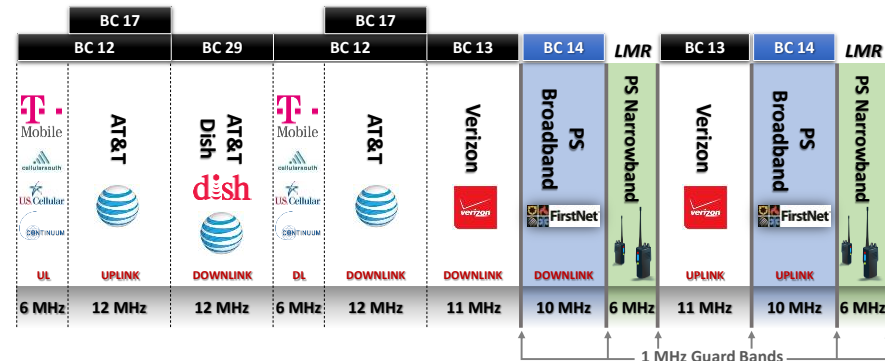
## FUNDING



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

## BAND CLASS (BC) 14

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



# FirstNet Organization

## Board

Sue Swenson, Chair  
Jeff Johnson, Vice Chair  
Barry Boniface  
Chris Burbank  
Neil Cox  
Ron Davis  
James Douglas  
Edward Horowitz  
David Mader  
Kevin McGinnis  
Annise Parker  
Ed Reynolds  
Suzanne Spaulding  
Richard Stanek  
Teri Takai

*Chief Executive Officer*  
**Michael Poth**

*President*  
**TJ KENNEDY**

*Chief Technical Officer (CTO)*  
**JEFF BRATCHER (Acting)**

*Chief Admin. Officer (CAO)*  
**FRANK FREEMAN**

*Chief Financial Officer (CFO)*  
**RANDY LYON**

*Chief Information Officer (CIO)*  
**JIM GWINN**

*Acting Chief Counsel (OCC)*  
**Jason Karp**

*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**

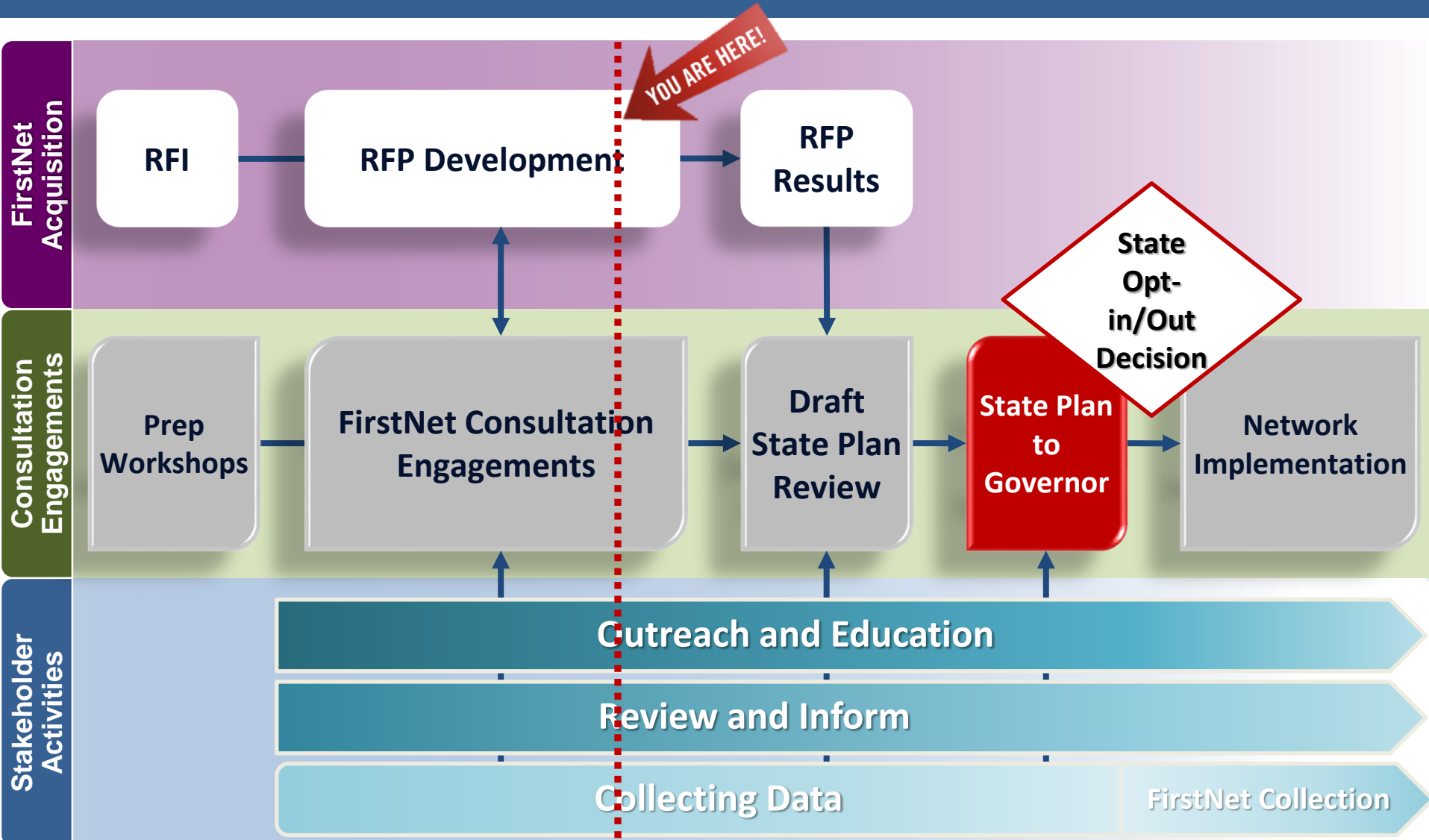
Justin Shore  
Thomas Shull

*Director of  
Communications  
(Acting)*  
**RYAN OREMLAND**

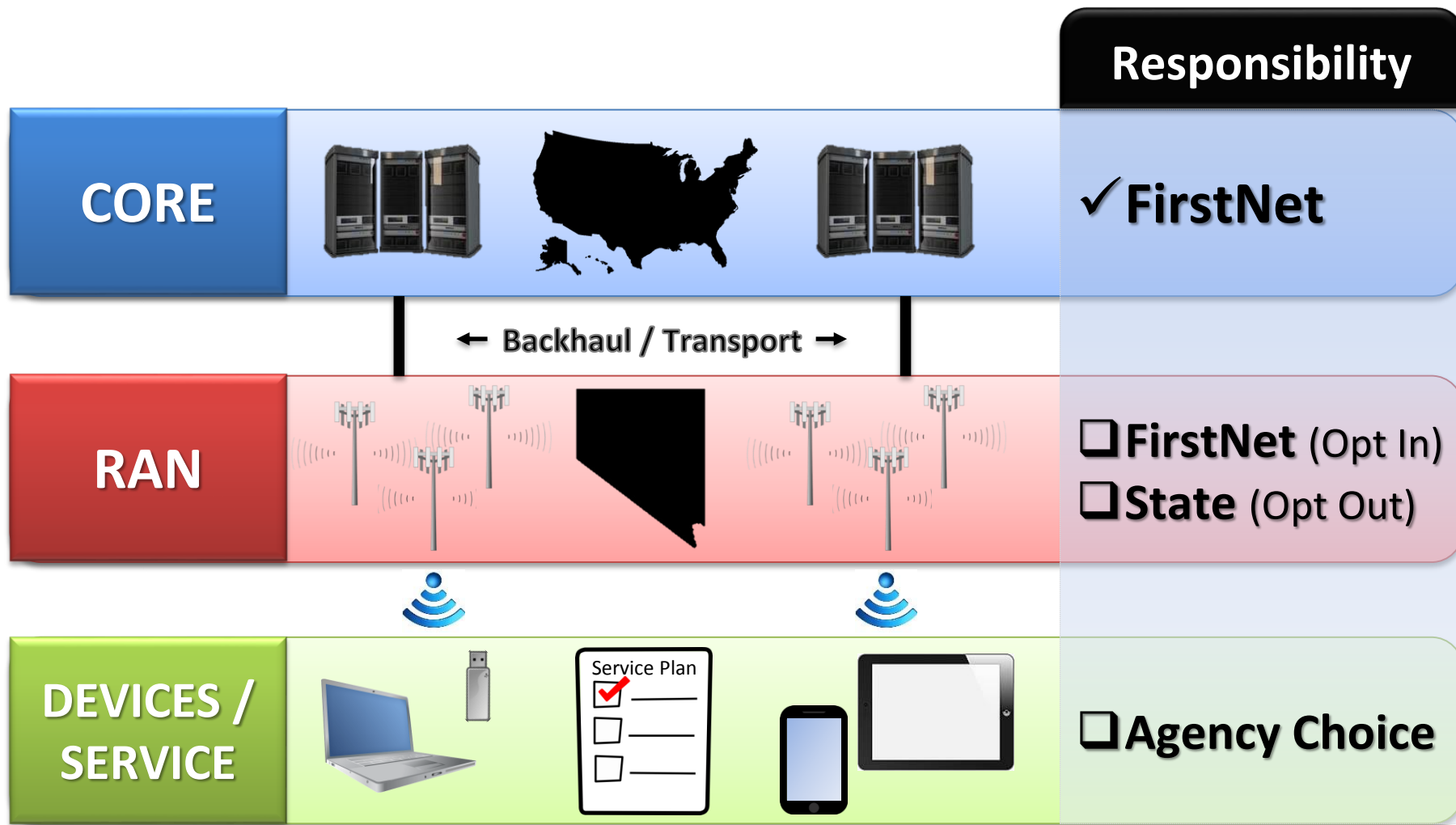
Kyle Richardson



# FirstNet Development Process



# Network Components and Choices



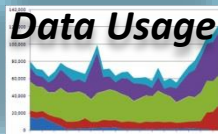
# Need Inputs to Get Answers

**Plan Options**



**Training**

**Data Usage**



**Users**

## FirstNet Consultation

**Deployables**



**Hardening**



**Security**



**Coverage Objectives**



**Devices**

**Applications**



**Core Network**

**Prioritization**

**\$7B**



**Excess Capacity Revenue**

## Self-Sustaining Network

**Fees**

**Deployment Costs**

**Operations & Maintenance Costs**

**PS Features**

Priority, Security, Hardening, etc.

**Deployment Schedule**



**Hardening Costs**



**Available Devices**

**Core Design**



**Cost Estimates**

**Baseline Coverage**



**Excess Capacity Valuation**



**Adoption Estimates**

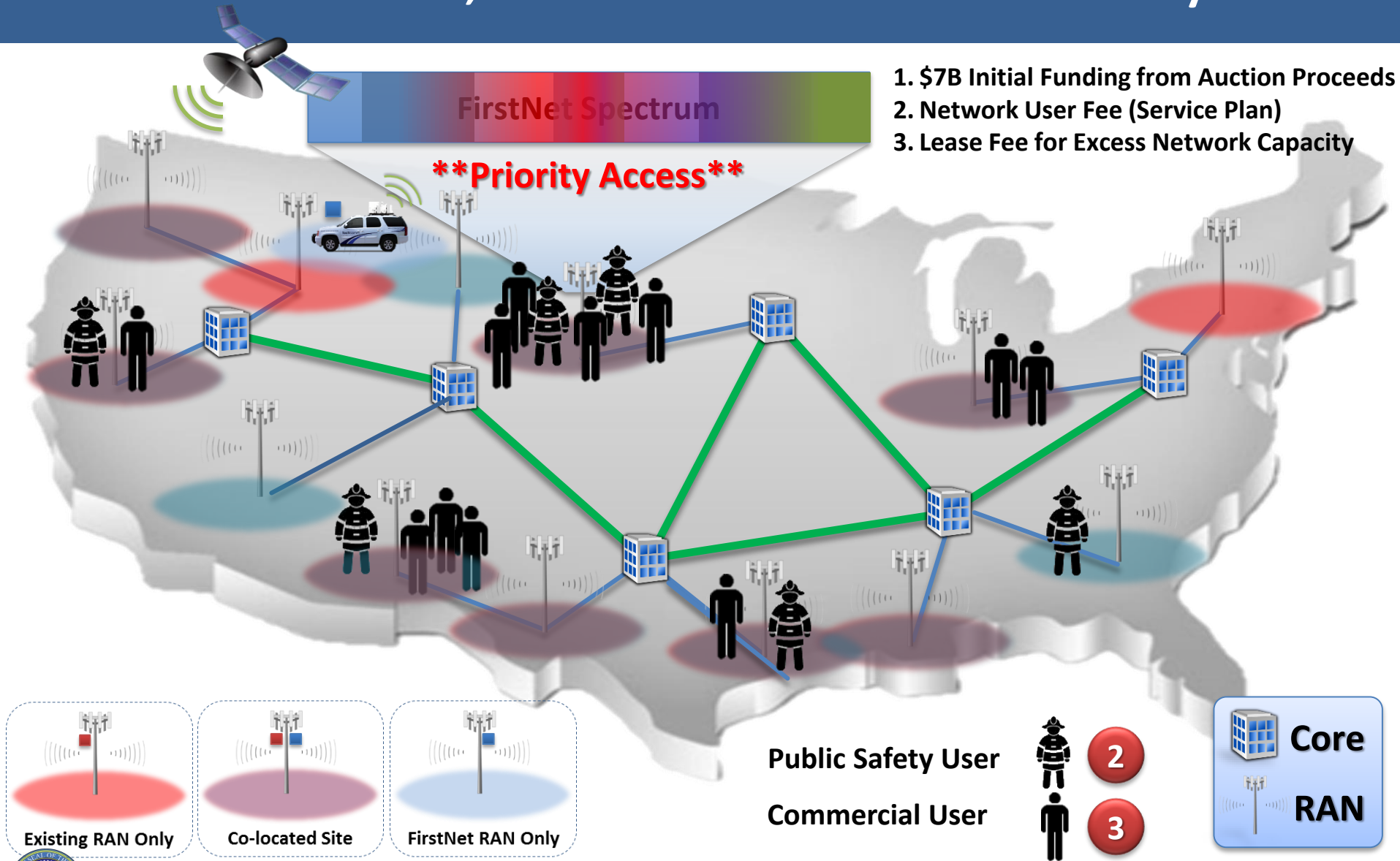
## FirstNet Acquisition



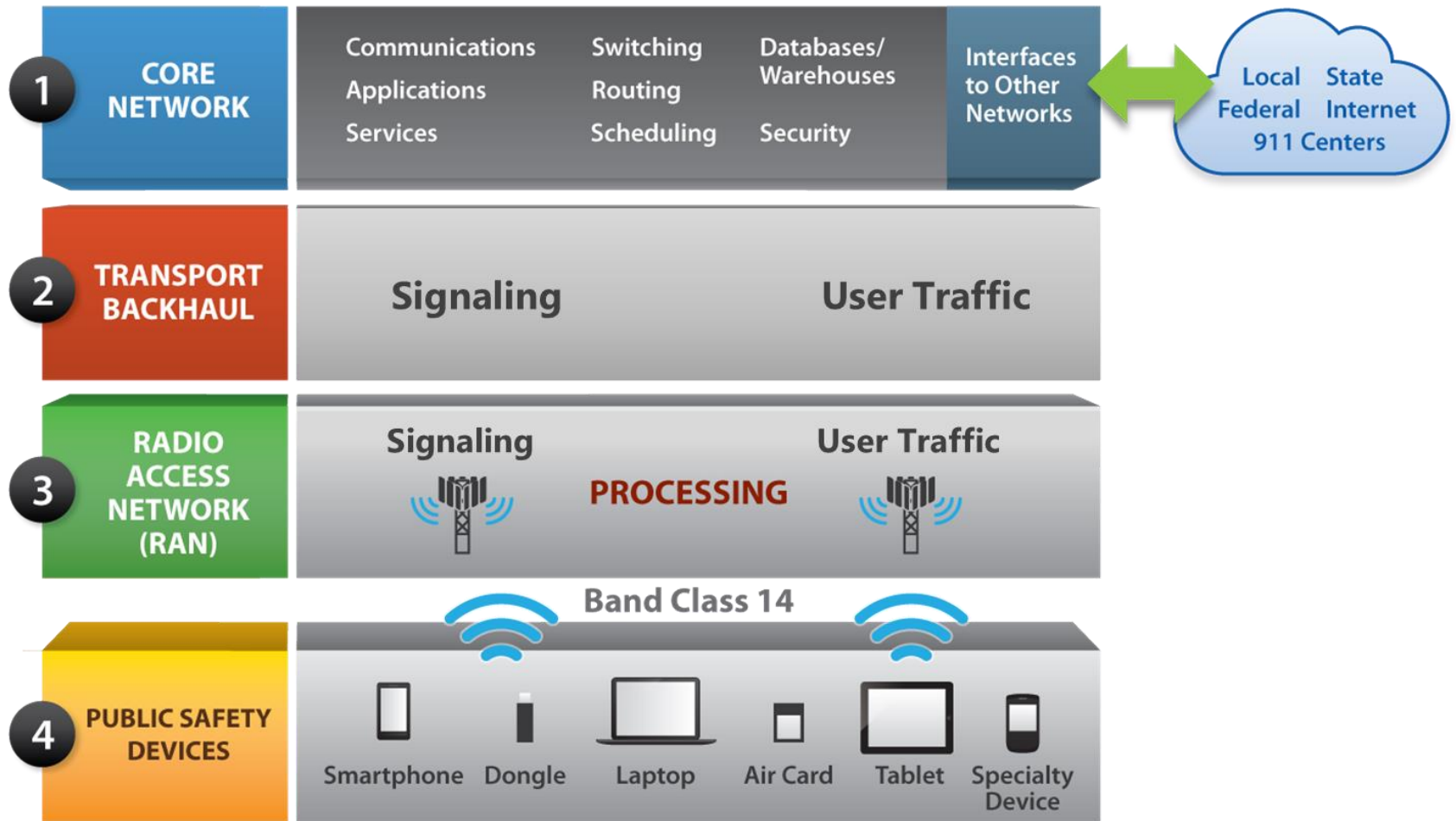
**Nevada FirstNet**



# Revenue, Architecture & Priority



# LTE Architecture



# 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)



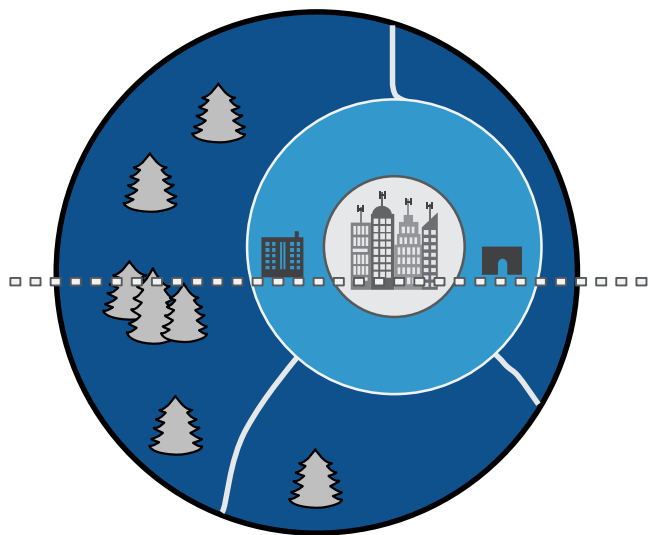
## Contractual Measures

- 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.*



# Phased Approach to Coverage



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



RURAL

SUBURBAN

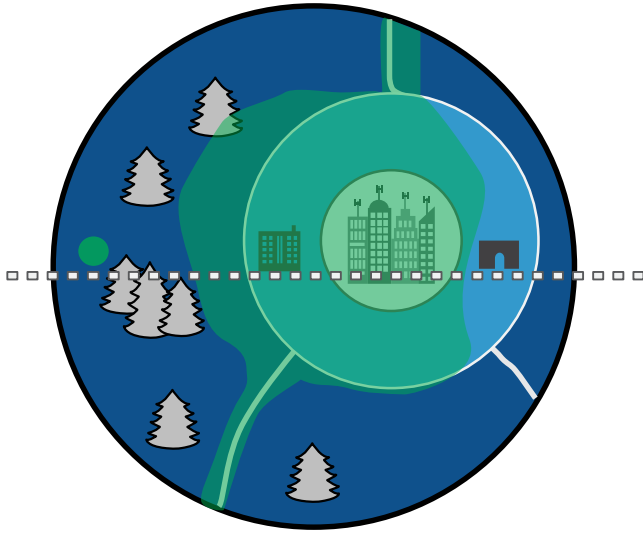
URBAN

SUBURBAN

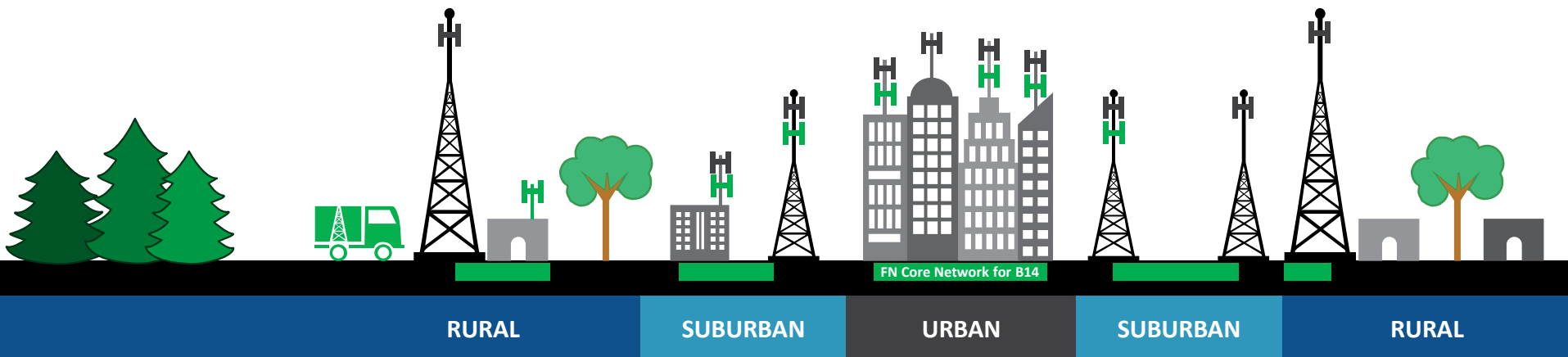
RURAL



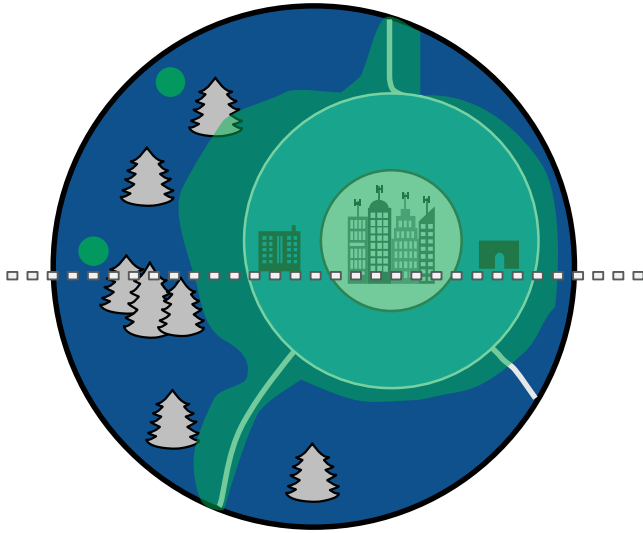
# Phased Approach to Coverage



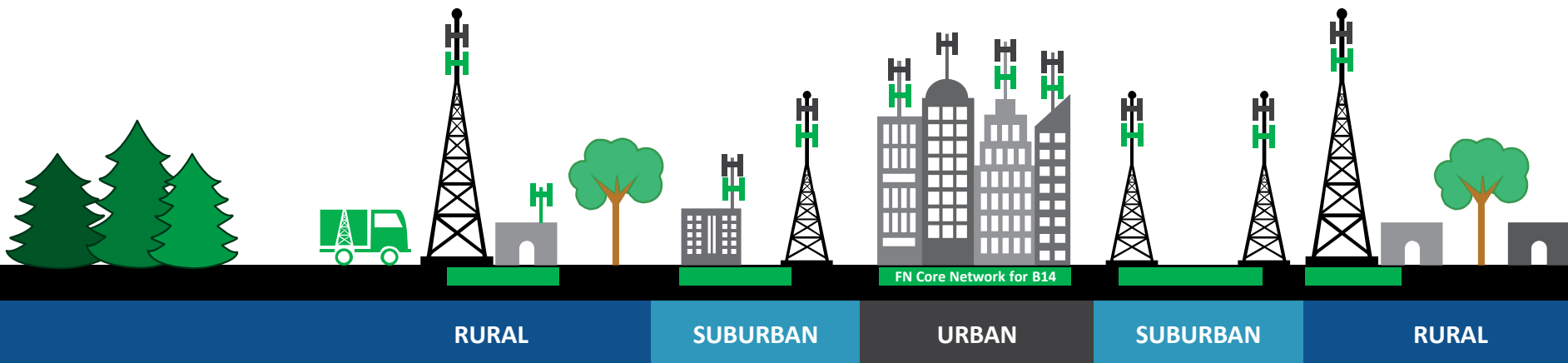
Contract Coverage	Expansion 2
	Expansion 1
	Phase 5
	Phase 3-4
	Phase 1-2



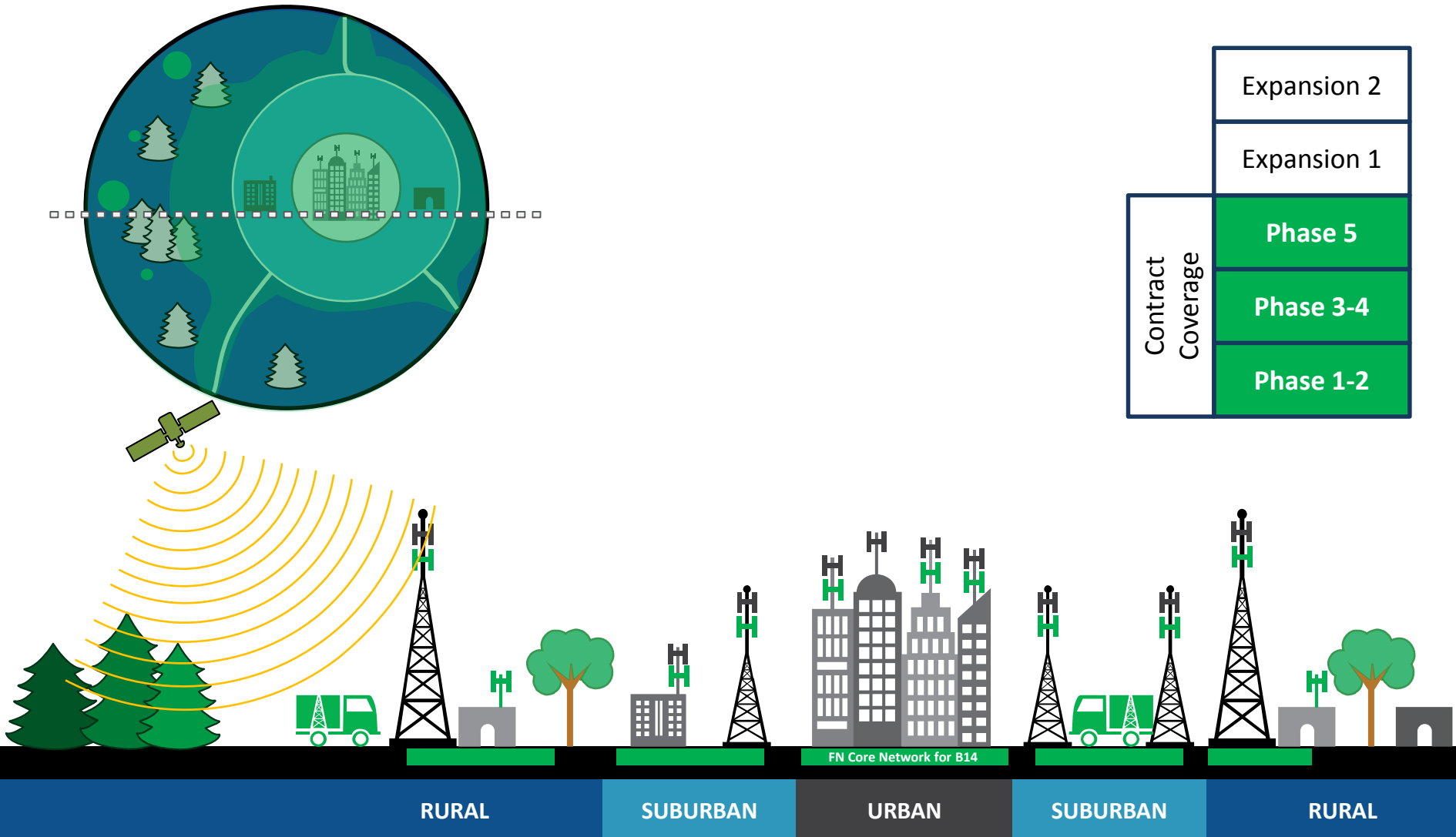
# Phased Approach to Coverage



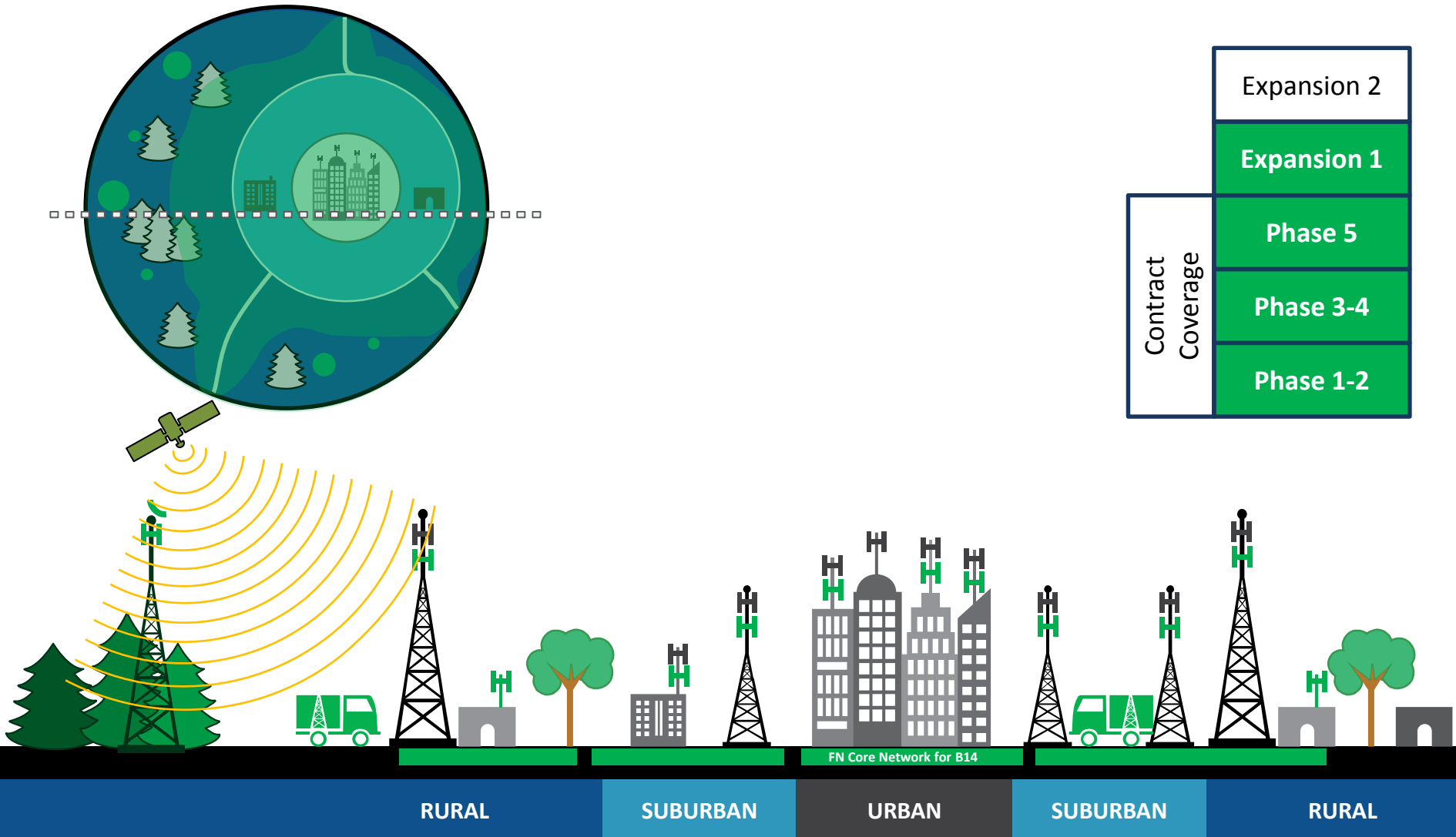
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	Expansion 1
	Phase 5
	Phase 3-4
	Phase 1-2



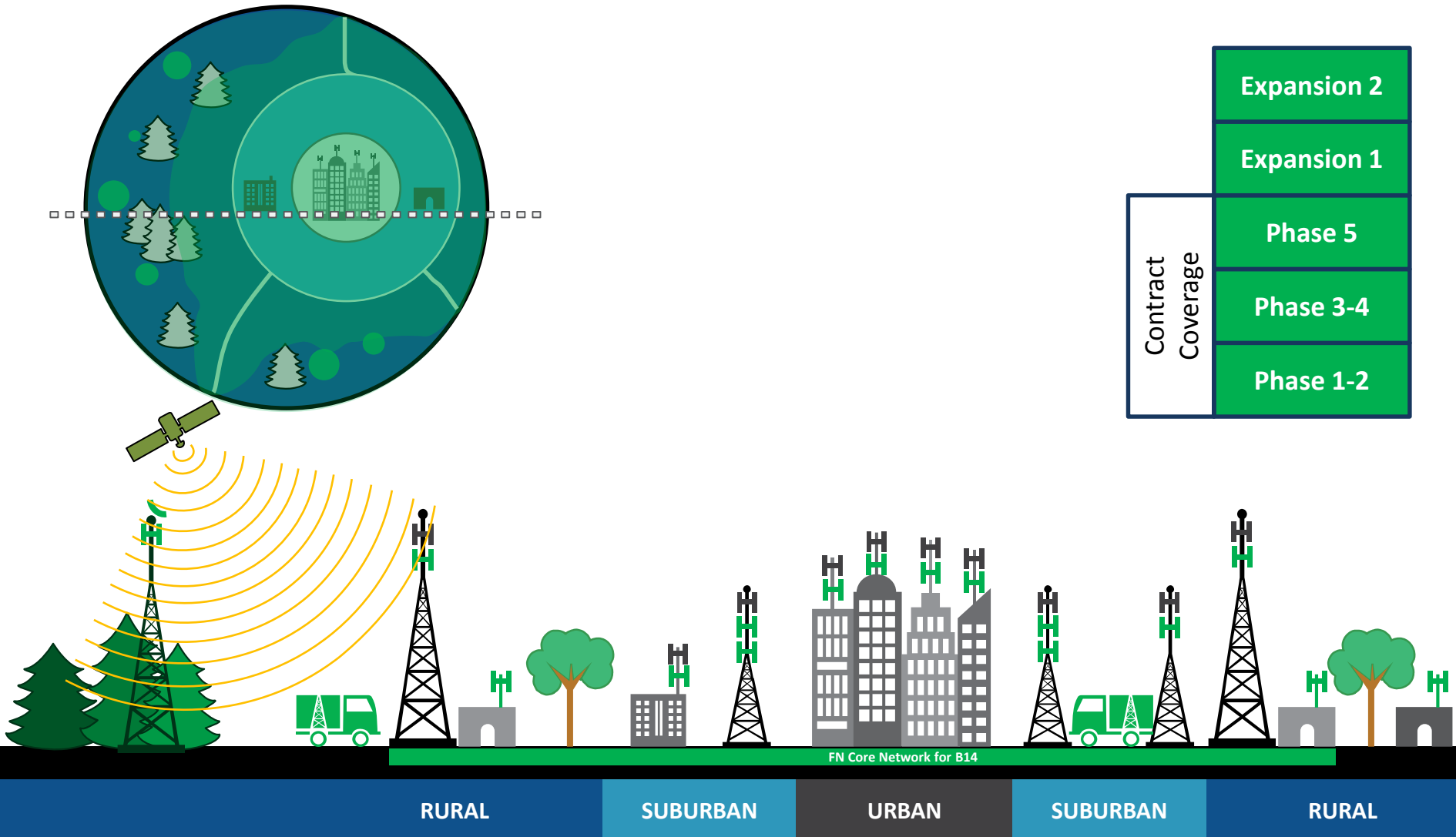
# Phased Approach to Coverage



# Phased Approach to Coverage



# Phased Approach to Coverage



# 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**

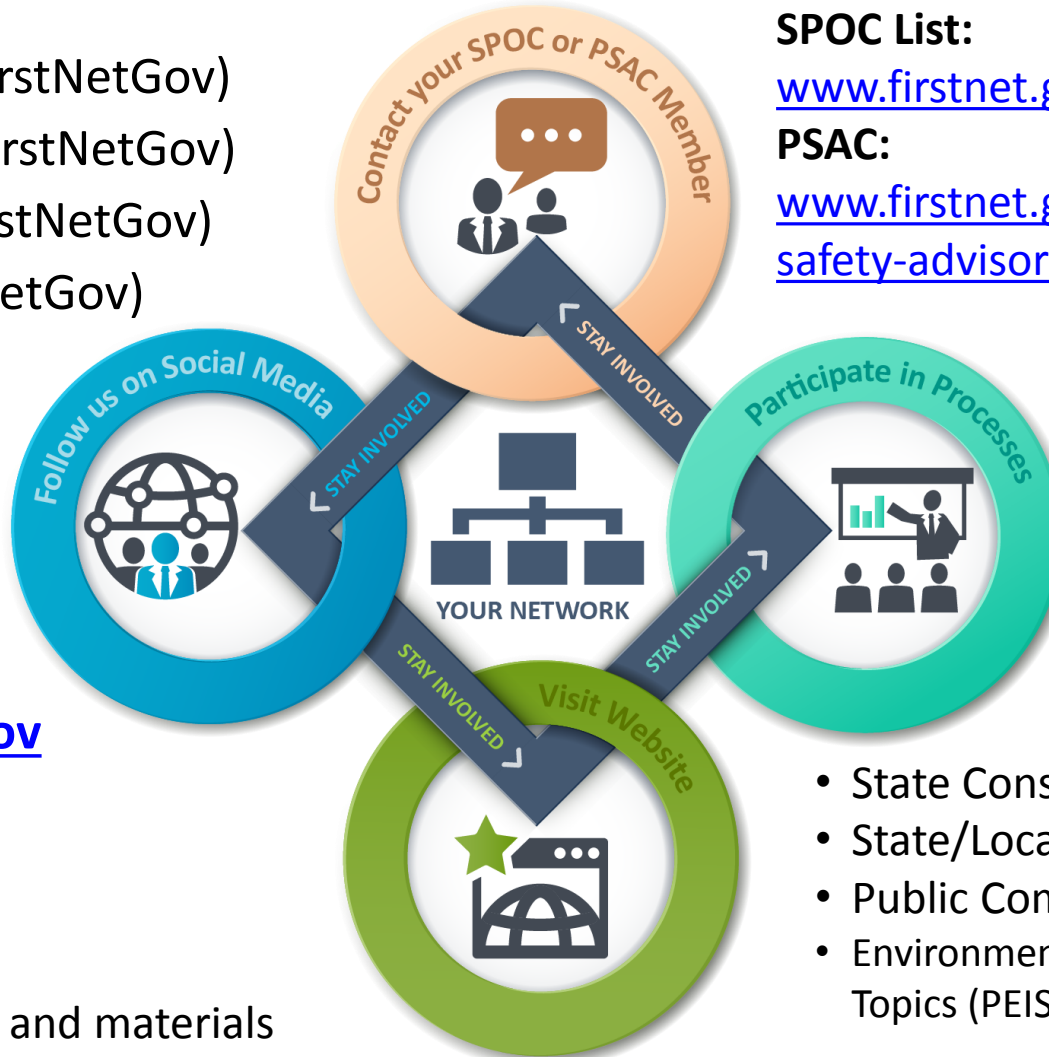
**Chairwoman, FirstNet**

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



# Outreach and Education

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



## 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)

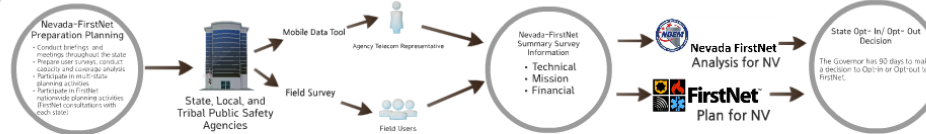
[www.firstnet.gov](http://www.firstnet.gov)

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

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



# 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



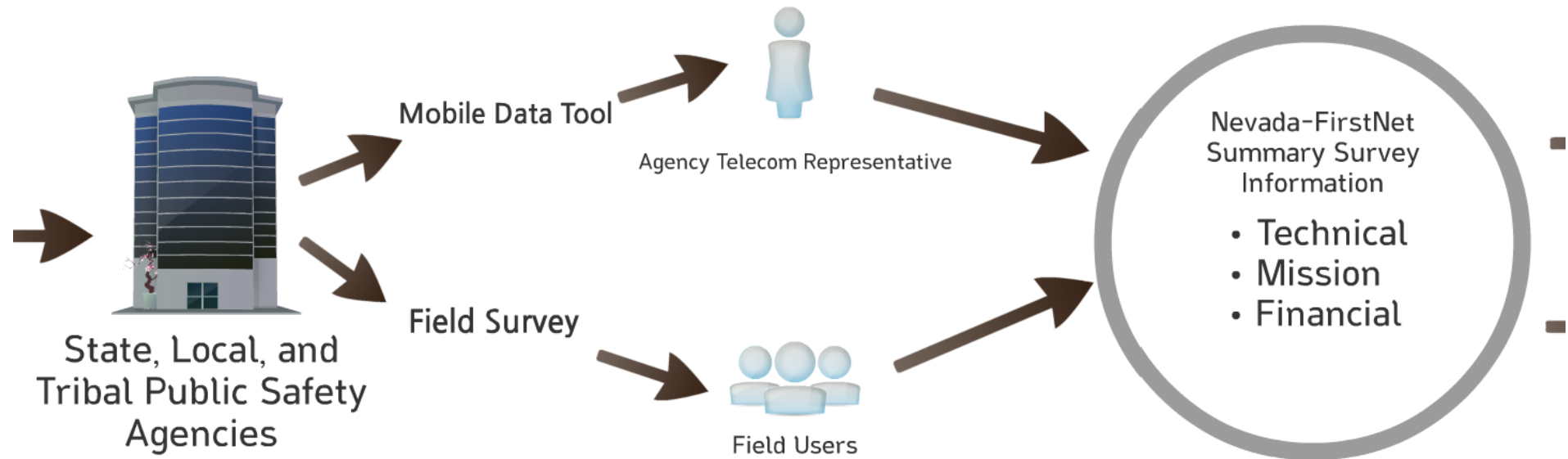
# NV-FirstNet High-level Process

## Nevada-FirstNet Preparation Planning

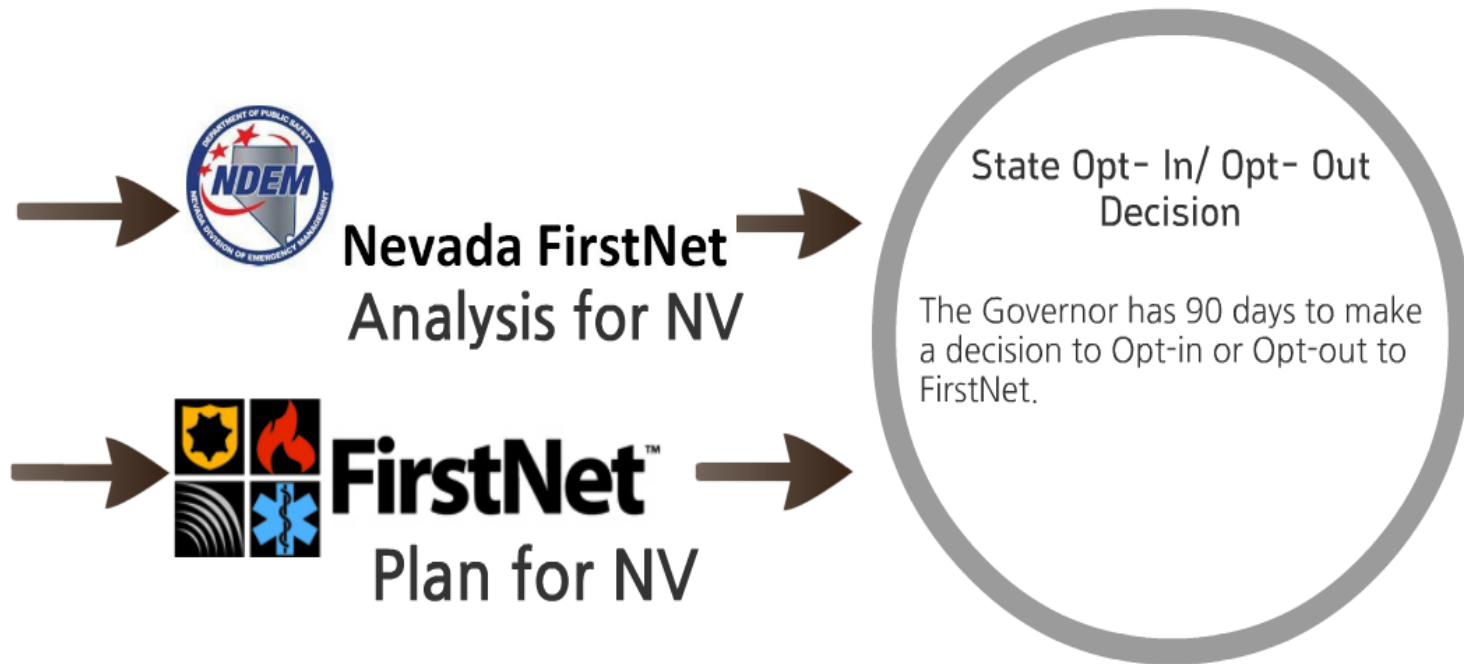
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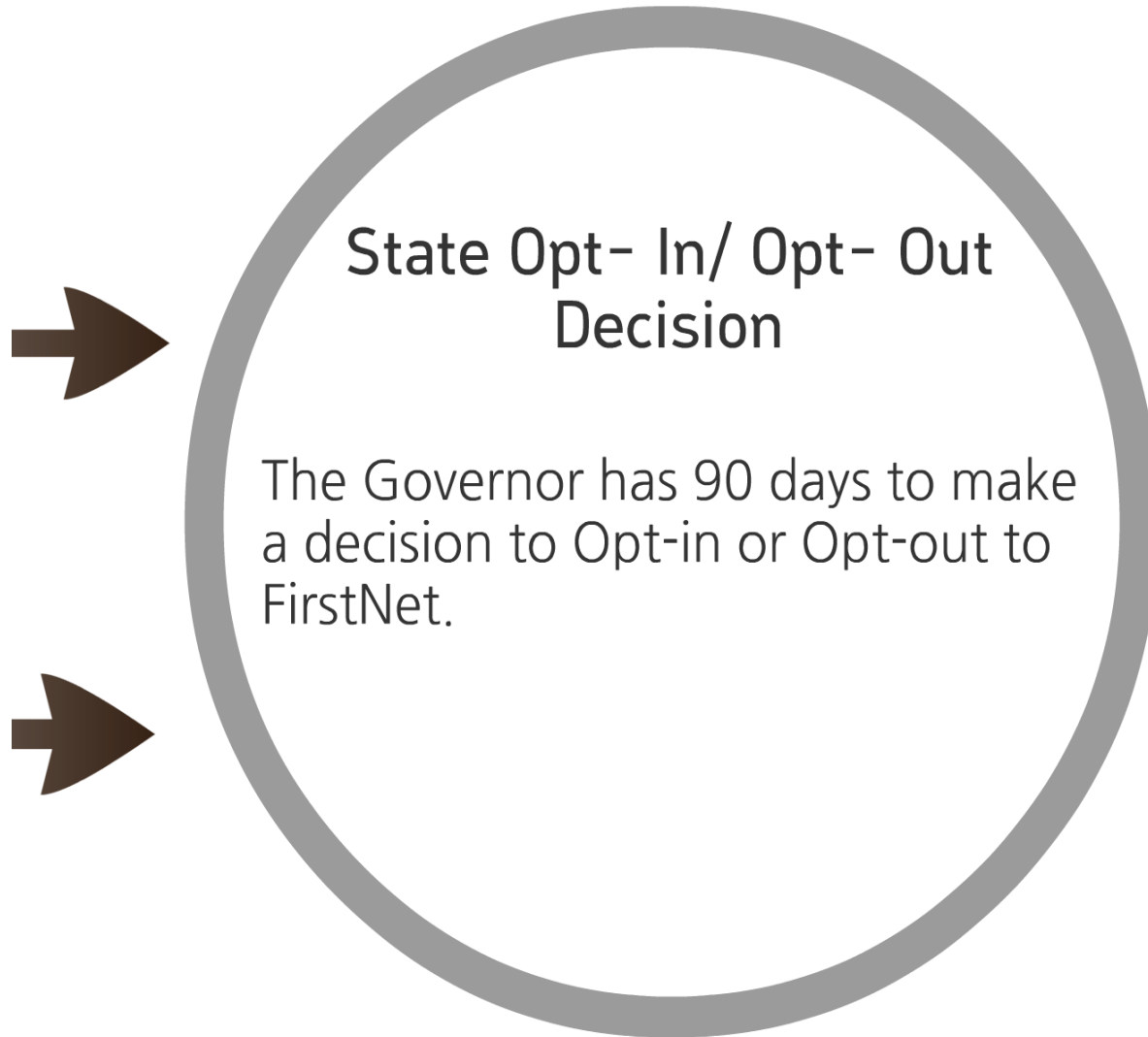
# NV-FirstNet High-level Process



# NV-FirstNet High-level Process



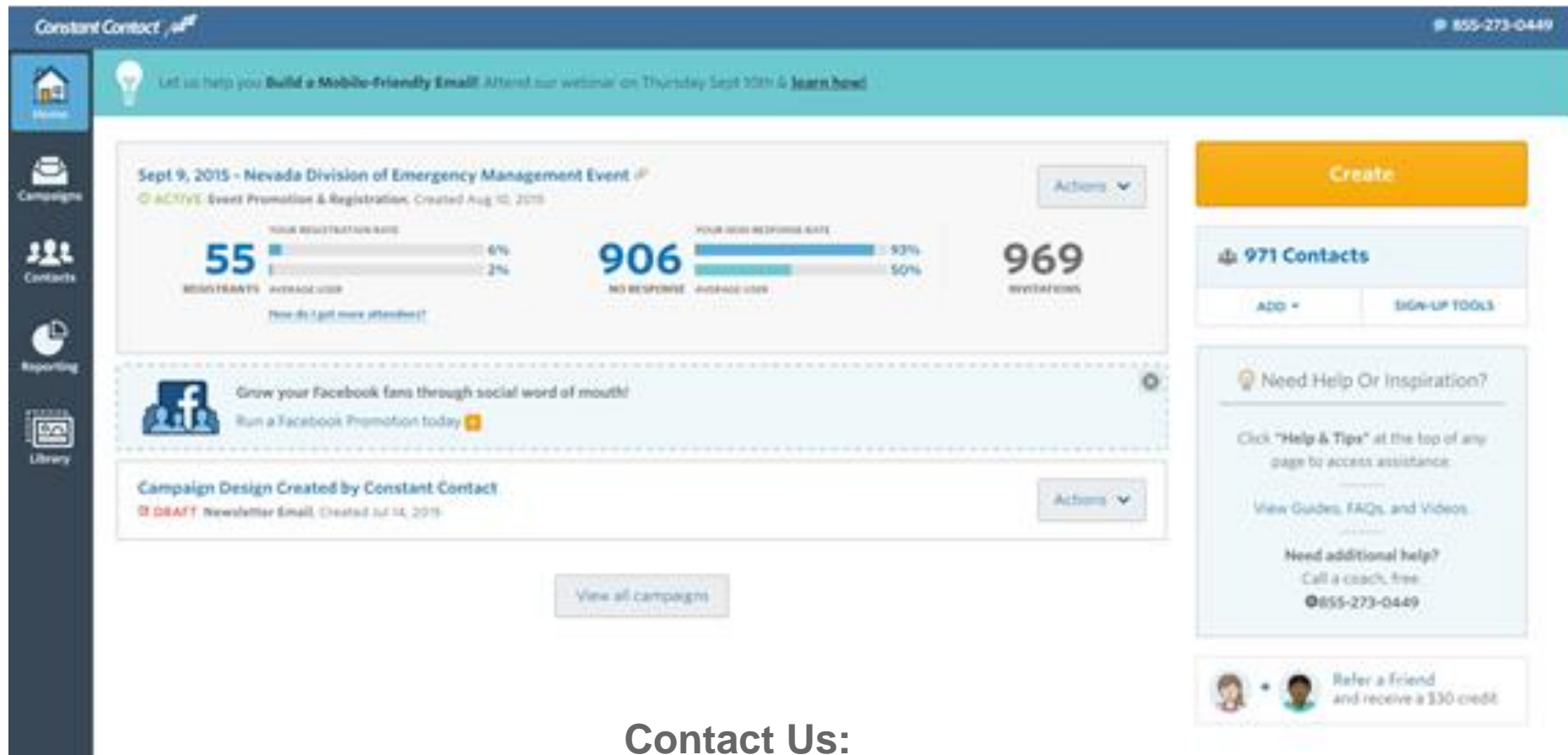
# NV-FirstNet High-level Process



# NV-FirstNet Stakeholder Outreach and Education (O&E) Efforts Col. Ken Morckel (Ret.) NV-FirstNet, PS O&E SME



# Stakeholder Communications



Contact Us:

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

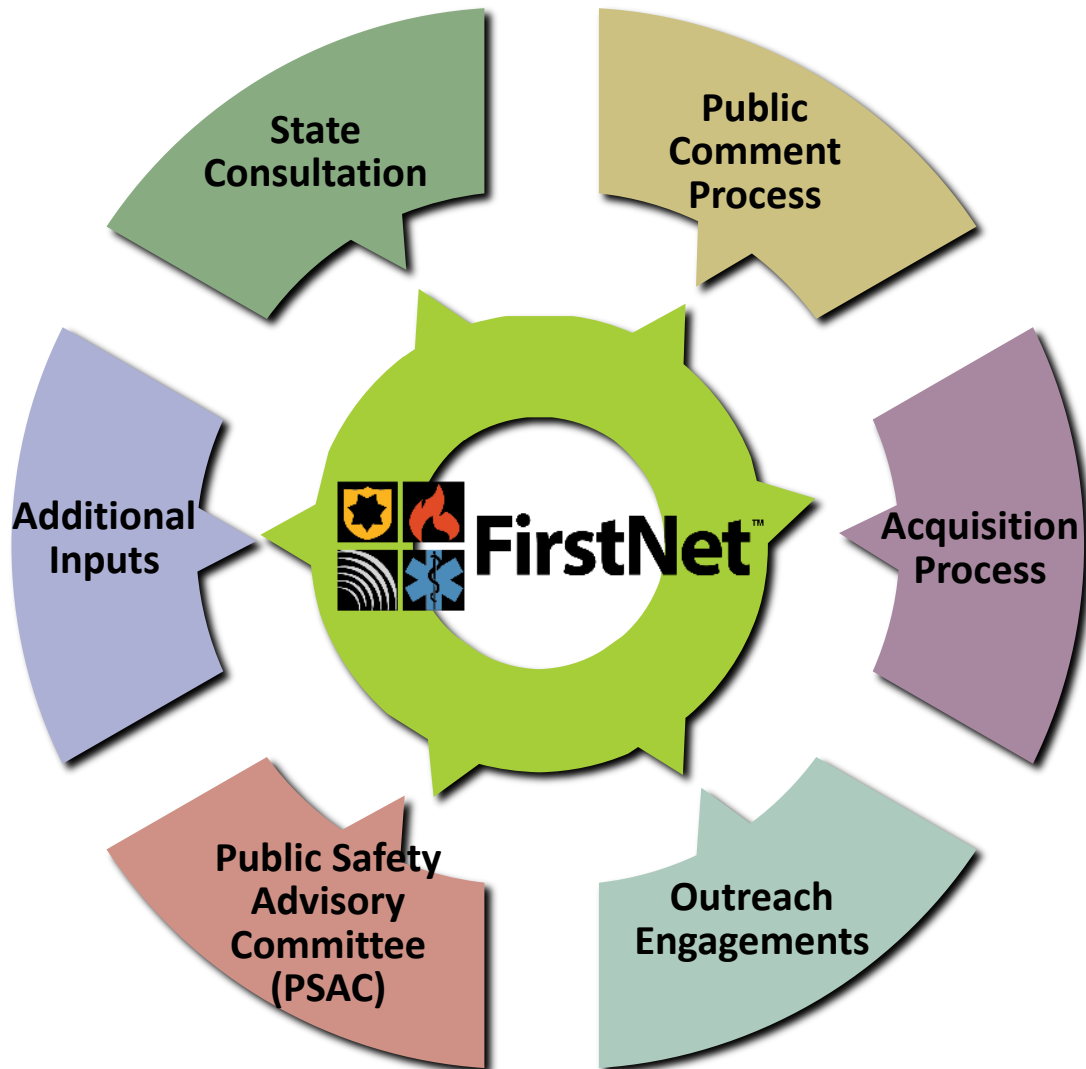
We also have a Text to Join option; Text  
"NVFIRSTNET" to 22828 to join our  
communications list.



Nevada FirstNet

The Digital Decision

# 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



# Capacity and Coverage Overview

## 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**



# NV-FirstNet Data Collection Session

## Ayrielle LeGrande

### NV-FirstNet, Data Collection SME



# Data Collection

## 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 Outreach Survey**

1. Your organization type is:

2. Your organization location:

3. What primary duty/function do you wish to?

4. How many personnel personnel support your primary assignment?

5. How many total vehicles/units/vehicles?

6. How many vehicles/units/vehicles support agency?

7. All of the following are used by your agency:

Device/Agency	Dispatch/Control	Secure	Call or Message for	Image	Device Type
Mobile Data Tool (MDT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Data Tool (MDT) - Backup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**The State of Nevada User Survey**

Thank you for helping us to clarify the data communication needs of your public safety agency.

The information you provide will help the State of Nevada define what is needed in the nationwide public safety network that will be built 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 these questions that apply to you.

Note: Do not use the Back or Forward buttons, or you may lose your inputs. Please use the Back and Next buttons on the bottom of every page.

Q1. Name:

Q2. Email address:

Q3. Please provide mailing address: Example: 123 Apple Street, Las Vegas, NV 89101

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

Q4. Please select County:

\*\*\*Note: If you're representing a countywide agency please select First Application

Q5. Please select your Public Safety Category:

- ☐ Law Enforcement
- ☐ Fire
- ☐ Emergency Medical Services (EMS)
- ☐ Public Safety Communications
- ☐ Emergency Management (EM)
- ☐ Public Safety - Emergency Services
- ☐ Health/Human Services
- ☐ Planning and Policy
- ☐ Information Technology / Services
- ☐ Other

Please select "Other" if applicable:



# Status of NV-FirstNet Data Collection

**Total Responses: 39**

- **Demographics:**

- Respondent Levels of Government:

- Federal: 3
- State: 9
- Tribal: 3
- County: 12
- Local: 10
- Other: 2

- Respondent Public Safety Disciplines:

- Emergency Management: 3
- Emergency Medical Services: 2
- Fire Service: 8
- Law Enforcement: 13
- Other Governmental Agencies: 3
- Other Non-Specified: 3
- Public Administration & Support Services: 2
- Public Health: 1
- Public Safety Communications: 4

	Total:	Major Cities:
<b>Employees:</b>	Full Time: 10,448 Part Time: 566 Volunteer: 1,296 Total: 11,060	Full Time: 5,475 Part Time: 275 Volunteer: 208 Total: 5,886
<b>Devices:</b>	Voice/Data Devices: 2,777 Data Only Devices: 1,547 Other Devices: 500	Voice/Data Devices: 1,487 Data Only Devices: 806 Other Devices: 400
<b>Vehicles:</b>	Vehicles: 4,599 Vehicular Devices: 4,664	Vehicles: 2,311 Vehicular Devices: 3,934
<b>Monthly User Fees:</b>	Voice Data: \$1,461.35 Data Only: \$612	Voice Data: 942 Data Only: 318
<b>Greatest Barriers For Network:</b>	Yes, Coverage Is a Barrier: 23 No, Coverage Is NOT a Barrier: 3	Yes, Coverage Is a Barrier: 5 No, Coverage Is NOT a Barrier: 2



# Data Collection

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

**Mobile Data - Current State Survey**

Introduction:


The Department of Homeland Security (DHS) Office of Emergency Communications (OEC) Interoperable Communications Technical Assistance Program (OEC ICTAP) 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.

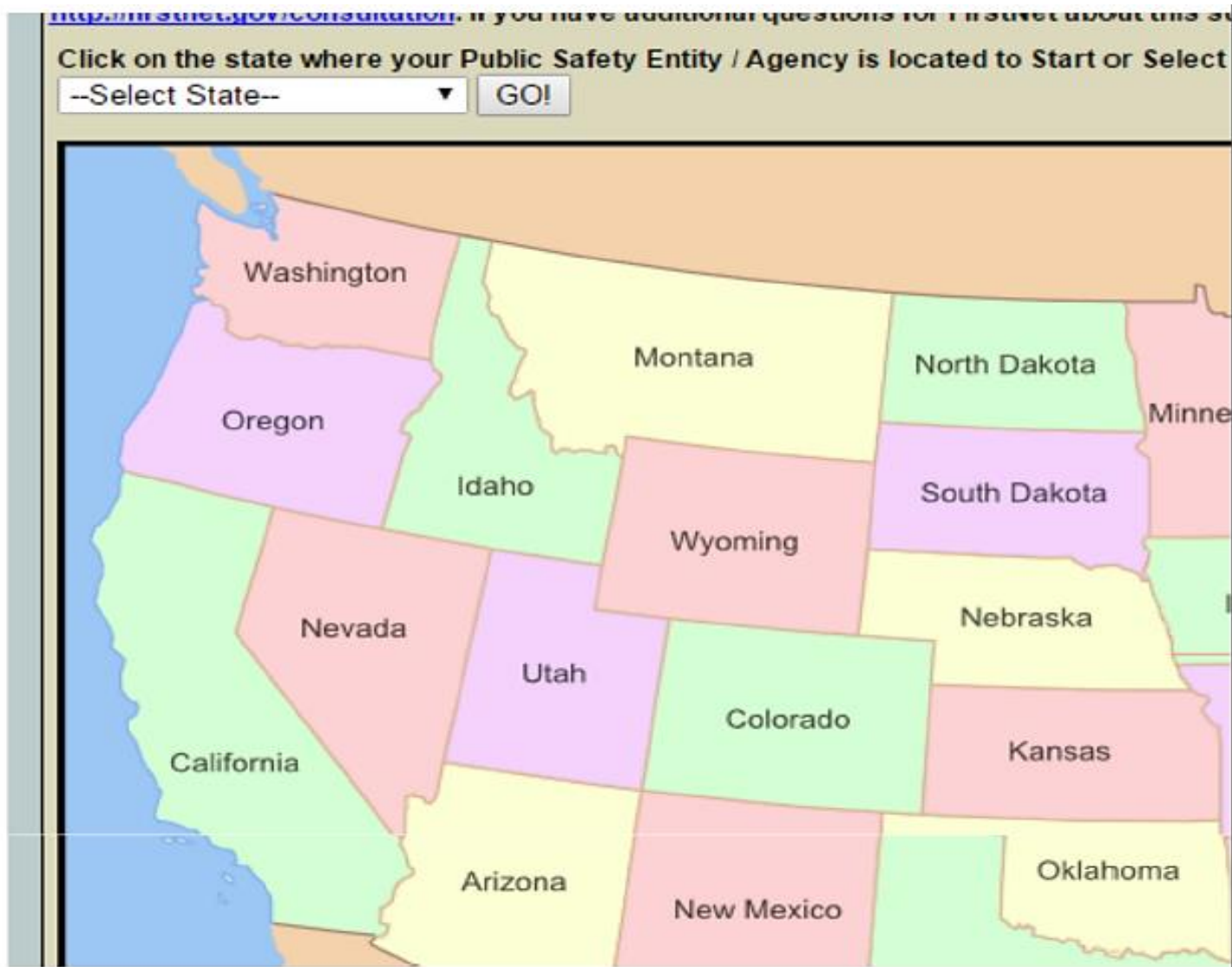
If you have questions about this survey or its content, please contact your state or territory's FirstNet single point of contact (SPOC). A list of all 56 SPOCs may be found at the bottom of this FirstNet webpage: <http://firstnet.gov/consultation>. If you have additional questions for FirstNet about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



# 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  
District Safety Entry (PSE) Name: Section 1 of 6

**Section Navigation**

- 1. PSE Info
- 2. Device Page
- 3. Applications
- 4. Current Flowsheet
- 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:

Select your Level of Government:

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

Reset Search

Select your Agency:

- 911 Emergency Services (Mineral)
- 52nd Civil Support Team (52CST) (Las Vegas)
- Amargosa Vly Vol Fire Dept (Amargosa Valley)
- Amargosa Vol Amb Soc (Amargosa Valley)
- American Medical Response (Las Vegas)
- American Red Cross (Reno) (Reno)
- American Red Cross - Southern Nevada Chapter (Reno)
- AWR (Las Vegas)
- Austin Volunteer Ambulance Service
- Austin Volunteer Fire Department (Austin)
- Banner Churchill County Hospital (Fallon)
- Bethel Goldstone River Rescue (Olin)

\* 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:

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.

Next Page



# 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:

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:

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.

Next Page Save for Later



# NV-FirstNet MDT Workshop – Devices

Mobile Data – Current State Survey Section 2 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. [Banner 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

A Mobile Hotspot is a Portable Wi-Fi Router

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  
son 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

A Mobile Hotspot is a Portable Wi-Fi Generator

### 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



# 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.)

--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

Next Page Save for Later

**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



# NV-FirstNet MDT Workshop – Current Providers

Mobile Data - Current State Survey Section 4 of 5

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)**

**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.)?

[FAQ](#)



# 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-- ▼



# 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**

- [PSE Info](#)
- [Devices Page](#)
- [Applications](#)
- [Current Providers](#)
- Barriers Page**
- [Submit Survey](#)

**Barriers Page (4b)**

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

- Cost: Agency does not have budget to purchase required data plans or devices
- Network Reliability: Speed and efficiency of data services provided from the network does not meet requirements (i.e. slow speeds, congestion, frequent outages, etc.)
- 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)
- Coverage: Coverage of wireless data network does not meet agency operational requirements (i.e. dead spots through operational area)
- Expertise: Agency does not have the knowledge base within its employees to fully utilize available wireless data services
- Comments on Barriers



# NV-FirstNet MDT Workshop – Barriers Section

City of Las Vegas  
City Health and Human Services

**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  
--Select--

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.)  
--Select--

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)  
--Select--

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

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

6. Comments on Barriers

Next Page Save for Later



# 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
1. <a href="#">PSE Info</a>	<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> <div><input type="button" value="Save for Later"/> <input type="button" value="Submit Survey"/></div>
2. <a href="#">Devices Page</a>	
3. <a href="#">Applications</a>	
4. <a href="#">Current Providers</a>	
5. <a href="#">Barriers Page</a>	
6. Submit Survey	



# 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.

Save for Later

Submit Survey



# 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>

We also have a Text to Join option; Text  
“NVFIRSTNET” to 22828 to join our  
communications list.



# Questions and Answers



## About The Digital Decision

The Digital Decision was founded in 2007 with the mission of establishing true nationwide interoperable communications for our nation's first responders. We led [America's first two public safety broadband network deployments](#), negotiated state-wide governance agreements for four states, and over 67 local jurisdictions, and provided expert consultant services to the world's largest commercial carriers and equipment manufacturers. These combined experiences are unparalleled in the marketplace and enables us to provide unique, groundbreaking intelligence that best positions our state and local customers to make their public safety broadband communications decision.

### OUR CERTIFICATIONS

SBA 8(a) Program

Virginia State SWaM Certified

Virginia Micro Business Certified

Virginia ITA/ Staff Augmentation

Virginia DBE



### PRESENT AND PAST CLIENTS

The State of Pennsylvania  
 Florida Net  
 New York State  
 Fairfax County, VA  
 New York State Association of Counties  
 The State of Texas  
 State of Louisiana  
 Baton Rouge, LA

State of Nevada  
 Maryland Department of Human Services  
 District of Columbia Government  
 Verizon Wireless, Inc.  
 Motorola Solutions, Inc.  
 Alcatel-Lucent, Inc.  
 Qualcomm, Inc.  
 APCO International



### FIRSTNET RELATED SERVICE OFFERINGS

Customizable SLIGP Phase 1 (Outreach & Education) & Phase 2 (Data Collection) Strategies

State and Local Requirements and Design

Custom Mobile Applications

The Decision: OPT-In/ OPT-Out/ Commercial

Network Build, Operations and Stakeholder Training

## About Black & Veatch

- Black & Veatch is an employee-owned, global leader in building Critical Human Infrastructure™ in Energy, Water, Telecommunications and Government Services.
- Since 1915, we have helped our clients improve the lives of people in over 100 countries through consulting, engineering, construction, operations and program management. In 2012 revenues were US\$3.3 billion.

## Team accomplishments include:

- Developing LTE business-models for governments, carriers, and equipment manufacturers
- Developing multi-jurisdictional public safety broadband governance models
- Facilitating multi-jurisdictional public safety broadband operational agreements
- Leading national and international advocacy efforts to secure 700 MHz spectrum and funding for public safety broadband communications
- Designing and deploying LTE networks for national and international commercial carriers
- Designing and deploying public safety broadband networks for local and state governments

## Company Achievements:

- **Ranked #1 in Telecom by ENR for 5 years running**
- **Serviced over 100,000 Wireless Sites**
- **30,000 Miles of Fiber-Optic Network**

## GLOBAL FOOTPRINT

