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**FirstNet Deployment**  
**Status of the Nationwide Public Safety Broadband Network**  
**NTIA Webinar Series**

*Dial in to listen to the webinar*  
*Conference Line: 800-593-7190 Passcode: 984-4951#*

July 17, 2019

# Participants

## Presenters

- Dave Buchanan, Executive Director of Public Safety Advocacy, FirstNet
- Doug Clark, Assistant Vice President, FirstNet Program, AT&T Public Safety Solutions
- Chris Denney, Division Chief, Southern Platte Fire Protection District, Kansas City, MO

## Moderator

- Scott Woods, Manager of Technical Assistance, BroadbandUSA, NTIA



# FirstNet: Our Nation's Public Safety Network

Dave Buchanan, FirstNet Authority

Executive Director, Public Safety Advocacy

Wednesday, July 17, 2019



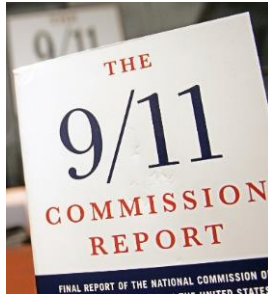
1. **History, Partnership and Strategy**
2. The Network: Developments and Technology
3. Public Safety Success Stories / Network Use Cases
4. Public Safety Engagement

# The FirstNet Journey



## 2001 9/11 attacks

Radio communication challenges affect first responders



## 2004 9/11 Commission

- Recommends national radio spectrum for public safety purposes
- Public safety unites to advocate for nationwide broadband network



## 2012 The First Responder Network Authority

Independent agency to deploy Nationwide Public Safety Broadband Network



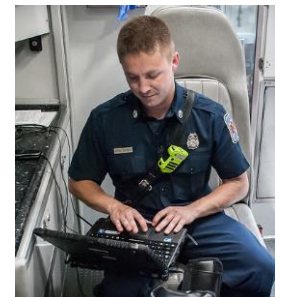
## 2012-16 Outreach and Consultation

- Governors identify FirstNet single points of contact
- Consultation in all 56 states/territories
- FirstNet works with states to collect and validate users and coverage data



## 2016-17 Partnership and State Plans

- Network RFP released
- Award to AT&T
- Delivery of 56 state/territory plans
- 56 Governors Opt-In decisions



## 2018-beyond Advancing the FirstNet Experience

- Engage and collaborate with public safety and industry
- Develop and promote Public Safety Communications roadmap
- Invest in the network

# An Innovative Public-Private Partnership

## First Responder Network Authority

- Partner oversight and support
- Public safety advocate
- Technical expertise
- Innovation strategy and investment



## AT&T

- Nationwide core
- RAN build-out
- Adoption and customer care (24x7x365)
- Security operations center
- Mission-critical services
- App and device ecosystems



# FirstNet: Transforming Public Safety Communications



IN



ACROSS



## FirstNet - Dedicated to Excellent Customer Experience (CX)

### MODERNIZED



Innovative apps and large devices ecosystem



Network improvements and upgrades over 25 years



Multi-layered, proven, cybersecurity and network security solutions

### PRIORITIZED



Emergency communications receive highest Quality Priority & Preemption



Rapid deployment of network



Instant nationwide coverage leveraging existing infrastructure

### SPECIALIZED



Nationwide coverage with access to deployables



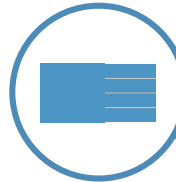
Aggressive pricing for public safety



Dedicated 24/7/365 public safety helpdesk

# First Responder Network Authority Roadmap

The Roadmap expresses how the FirstNet Authority will work to advance the FirstNet network over a multiyear horizon.



Provides a **technology framework** to understand all of the components and capabilities of the FirstNet Experience



Reflects **public safety's feedback** and needs based on a multitude of Roadmap engagements with the public safety community



Incorporates **analysis** of industry trends and drivers as well as AT&T's roadmap for the Network



Identifies the **priorities that will guide investments** and other opportunities based on FirstNet Authority analysis



# First Responder Network Authority Roadmap Domains



## Core

- EPC
- IMS Core
- Services Platforms
- App Servers
- Service Enablers



## Coverage & Capacity

- Macro Coverage
- Capacity
- In-building Solutions
- Temporary/On-Demand Coverage
- Range Extension
- Device-to-Device
- Air-to-Ground
- Maritime Operations
- Availability/Reliability/Resiliency/Hardening



## Situational Awareness

- Location Services
- Sensors
- Wearables
- Cameras/Video
- Mapping/Geographic Information System (GIS)
- Data Analytics/Artificial Intelligence



## Voice Communications

- Mission Critical Push-to-talk (MCPTT)
- PTT Interworking



## Secure Information Exchange

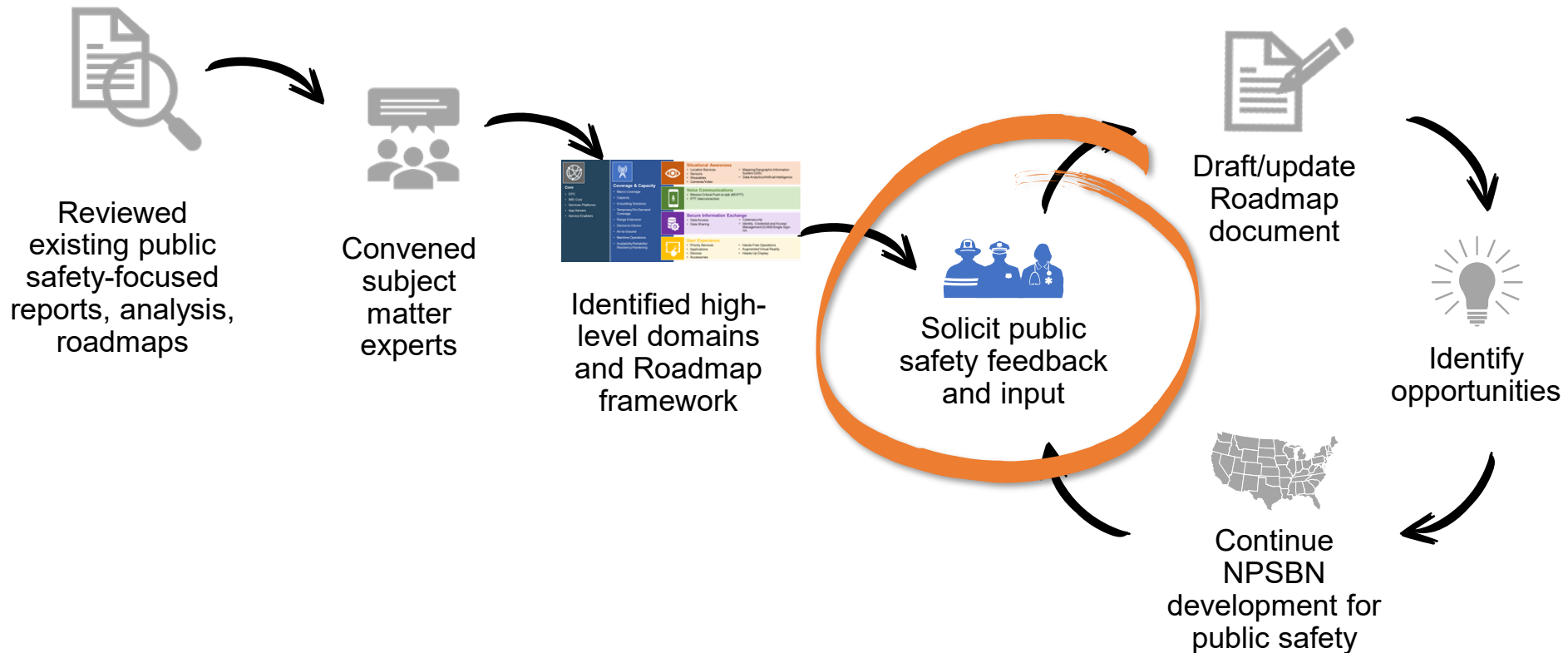
- Data Access
- Data Sharing
- Cybersecurity
- Identity, Credential and Access Management (ICAM)/Single Sign-On



## User Experience

- Priority Services
- Applications
- Devices
- Accessories
- Hands Free Operations
- Augmented Virtual Reality
- Heads-Up Display

# FirstNet Authority Roadmap Process



# Vision to Reality: A Catalyst for Public Safety Communications



**VISION:** Create a dedicated and differentiated broadband communications experience that transforms public safety operations to save lives



**PUBLIC SAFETY'S NEEDS**



**ROADMAP**



**INVESTMENT**

# FirstNet

1. History, Partnership and Strategy
2. **The Network: Developments and Technology**
3. Public Safety Success Stories/Network Use Cases
4. Public Safety Engagement

# FirstNet Network Status

**600K+** FirstNet connections



Public safety agencies signed

**7,250+**

**75**

Deployable network assets, including 3 Flying COWs



**25%**

Faster<sup>1</sup> than any commercial network

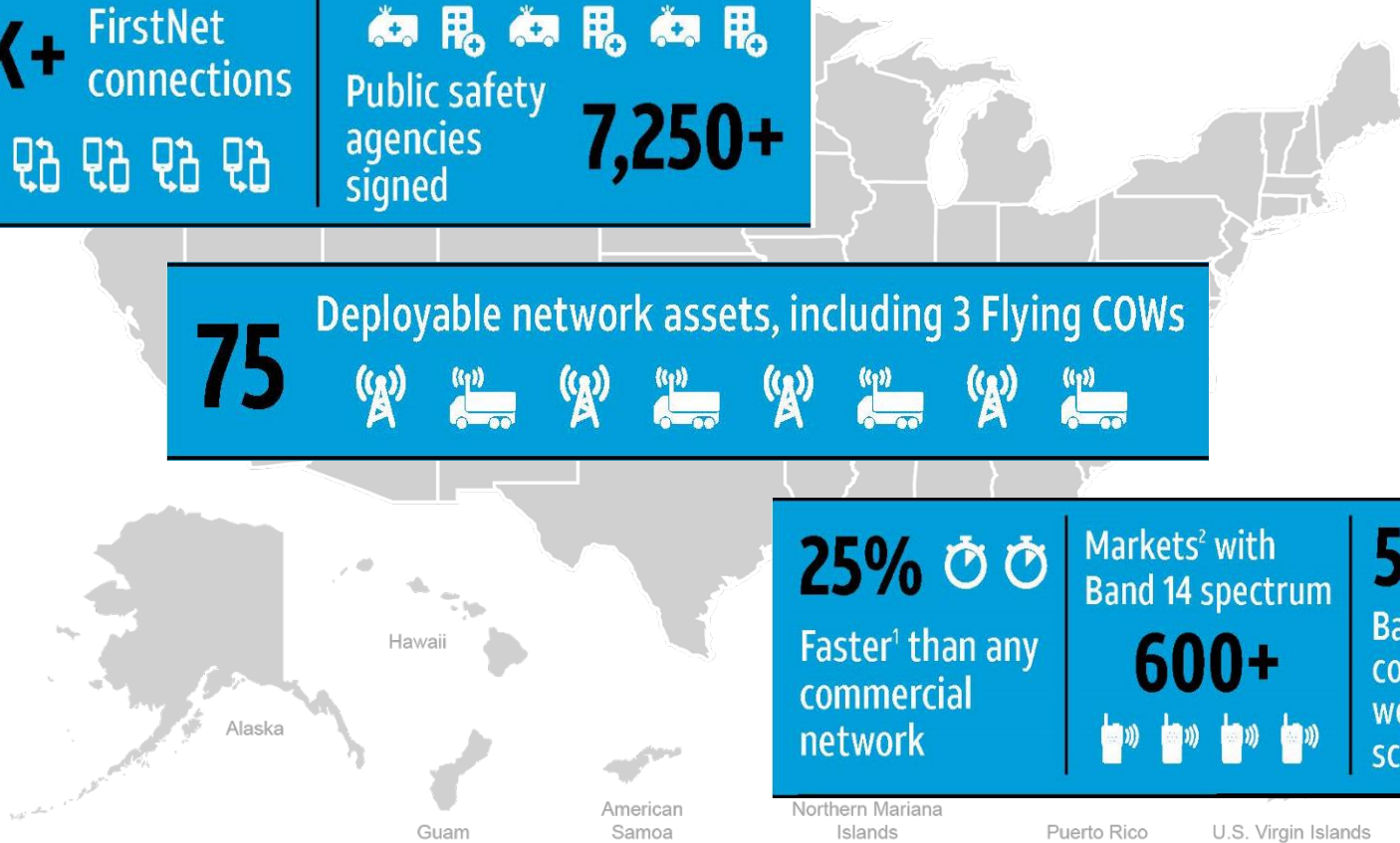
Markets<sup>2</sup> with Band 14 spectrum

**600+**



**50%+**

Band 14 coverage completion; well ahead of schedule

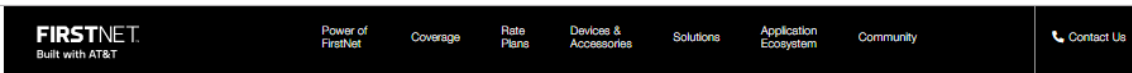


# Deployables

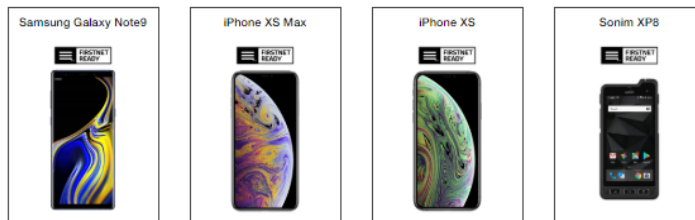


- **75 FirstNet-dedicated** deployable assets available nationwide
- **Subscribing agencies can request at no cost** to support scenarios, from disasters, to critical incidents and planned events
- **Service includes** all expenses directly associated with FirstNet deployables are included, at no cost to public safety

# FirstNet Devices Ecosystem



## Phones & Devices



[View More Phones & Devices](#)

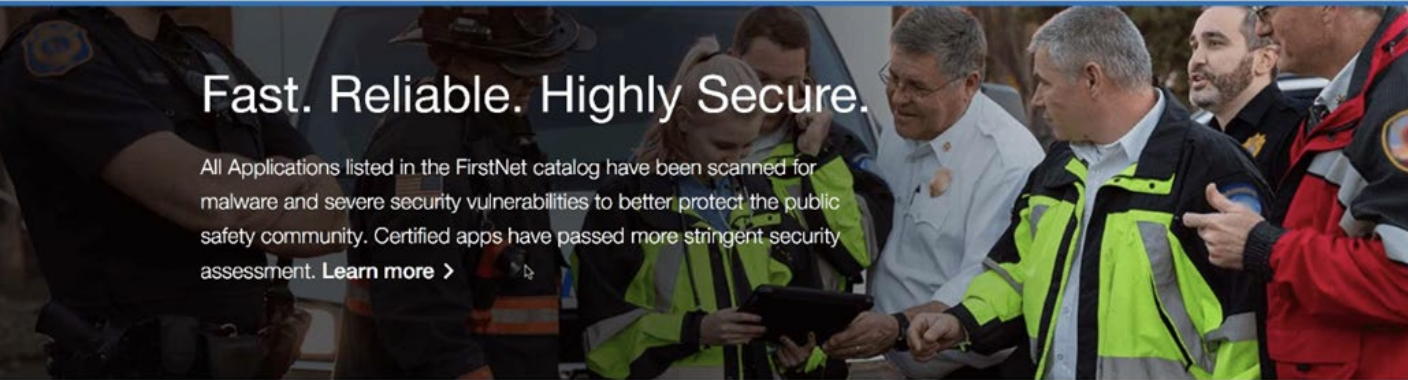
## Tablets



\*This slide does not constitute an endorsement by FirstNet Authority of any product or service, organization or company.

- Achieving rich, diverse user device portfolio
- Band 14 adoption ramping up, with FirstNet Ready device announcements
- Inclusive of public safety focused Internet of Things (IoT) devices and accessories
- SIM/UICC available and connect users to dedicated FirstNet Core
- See latest available devices at [FirstNet.com/devices](https://www.firstnet.com/devices)

# App Catalog for FirstNet



## SEARCH

## FILTERS

### Branch/Discipline

All Branches/Disciplines

### Category

All Categories

### Platform

IOS

ANDROID

 ESChat ESChat No Reviews <input checked="" type="checkbox"/> Available <input type="checkbox"/> Recommended PUSH TO MDM	 Fleet Complete Dis... Fleet Complete, Inc. No Reviews <input checked="" type="checkbox"/> Available <input type="checkbox"/> Recommended PUSH TO MDM	 Fleet Complete Mo... Fleet Complete, Inc. No Reviews <input checked="" type="checkbox"/> Available <input type="checkbox"/> Recommended PUSH TO MDM	 Fleet Complete Mo... Fleet Complete, Inc. No Reviews <input checked="" type="checkbox"/> Available <input type="checkbox"/> Recommended PUSH TO MDM
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# Security



- **Dedicated** Security Operations Center (SOC) for FirstNet subscribers
- **Coordinates** with AT&T's Global Network Operations Center (GNOC)
- **24x7x365** situational awareness

# Service Plans and Customer Care



## Service plans

- Agency- or subscriber-paid
- Flexible
  - Unlimited plans pooled
  - Smartphones or data-only
  - Machine-to-machine options
- Multiple contract options
  - NASPO
  - NPPGov
  - GSA Schedule 70
  - Custom Government

## Customer care

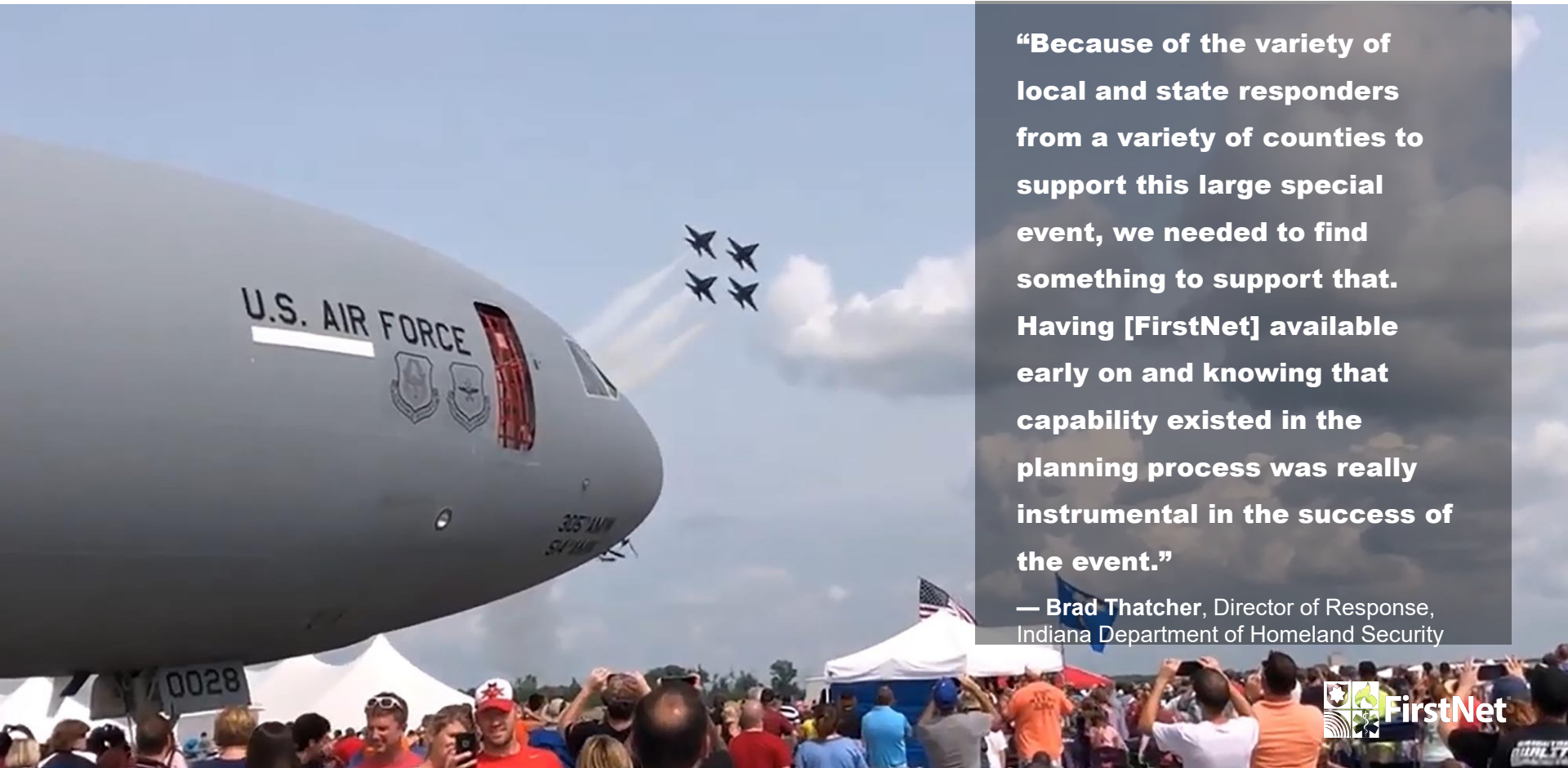
- 24x7x365 technical support
- Single phone number
- Chat and email available
- U.S.-based public safety-specific reps
- Training available

# 101 Storyline

1. History, Partnership and Strategy
2. The Network: Developments and Technology
- 3. Public Safety Success Stories/Network Use Cases**
4. Public Safety Engagement



# FirstNet in Action: Terre Haute Airshow 2018



**“Because of the variety of local and state responders from a variety of counties to support this large special event, we needed to find something to support that. Having [FirstNet] available early on and knowing that capability existed in the planning process was really instrumental in the success of the event.”**

**— Brad Thatcher**, Director of Response, Indiana Department of Homeland Security



# 101 Storyline

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4. **Public Safety Engagement**

# The FirstNet Authority Commitment to Public Safety



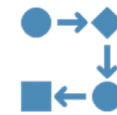
## UNDERSTAND

Engage, understand, and analyze public safety operational needs and opportunities



## COLLABORATE

Include public safety, industry, government, and AT&T to determine the priorities we will address through the Roadmap and other efforts



## TRANSFORM

Assist public safety in its adoption and use of FirstNet so that it realizes the advantages and benefits offered by the network

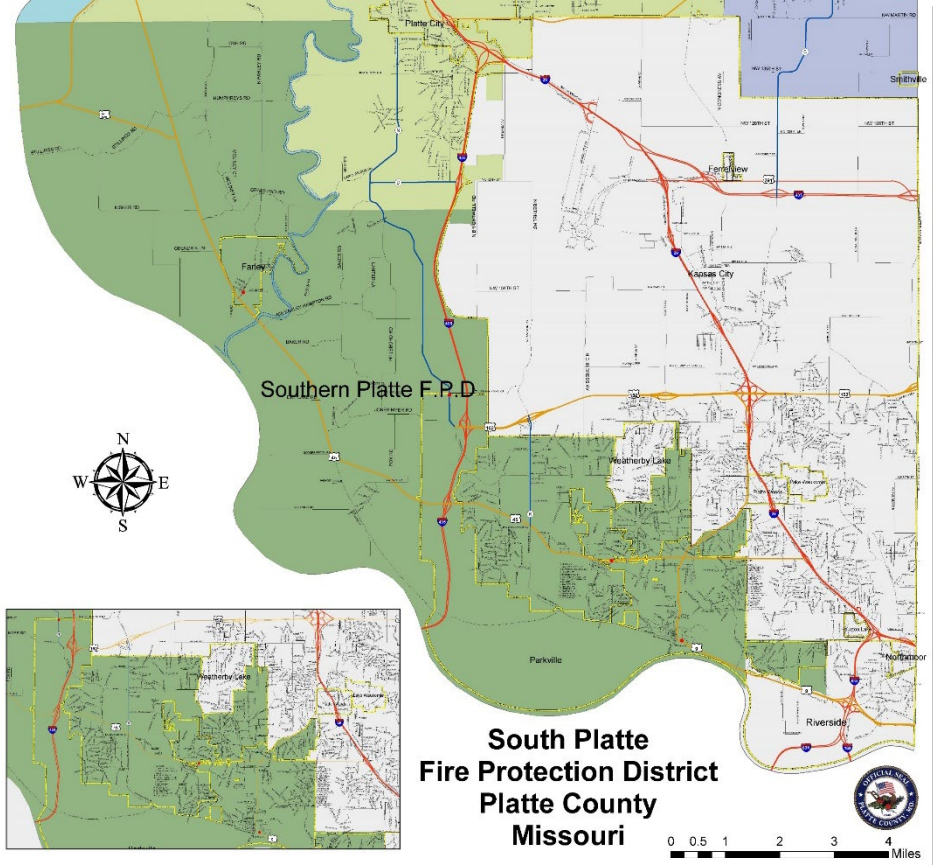
# Southern Platte Fire Protection District

Chris Denney  
Division Chief  
Southern Platte Fire Protection District  
Kansas City, MO





# Southern Platte Fire Protection District



# Public Safety Broadband Network – Key Capabilities



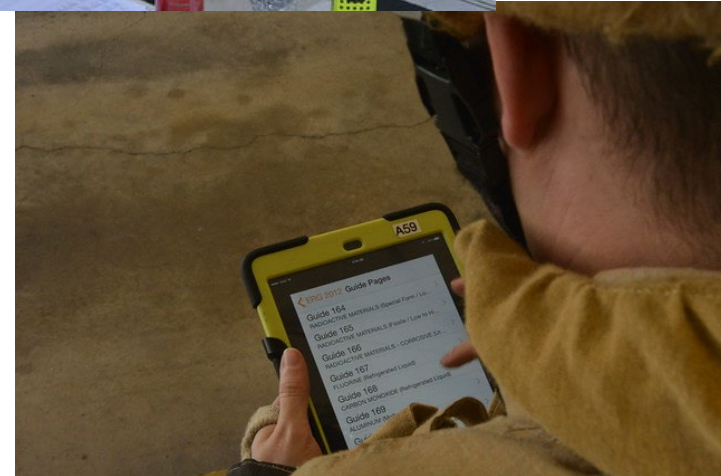
Push-to-Talk

FIRSTNET.  
Built with AT&T

Local Control



Land Mobile Radio  
– LTE



# Helpful Information

## Questions

- Please type questions and comments in the question box on the right hand side of the screen. Questions will be taken after the final presenter.

## Presentation

- The presentation along with a transcript and an audio recording will be available on the BroadbandUSA website within 7 days of this webinar under Events/Past Events.
- <https://broadbandusa.ntia.doc.gov/past-event>

## Technical Assistance

- Guides, products, publications, and other tools are available to assist you with the planning, funding and implementation of your broadband project.
- <https://broadbandusa.ntia.doc.gov>

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# FirstNet Deployment

## Status of the Nationwide Public Safety Broadband Network

### Questions and Answers

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# BroadbandUSA

Thank you for attending.

Tune in for the next Practical Conversations Webinar

## **The Digital Economy: Measuring the Economic Impact of Broadband** **September 18, 2019** **2:00 pm EST**

Registration is required for each webinar:

<https://broadbandusa.ntia.doc.gov/event>

# BroadbandUSA is available to help communities with their broadband access and digital inclusion efforts

## For General Information:



202-482-2048



[broadbandusa@ntia.gov](mailto:broadbandusa@ntia.gov)



<https://broadbandusa.ntia.doc.gov/resources>

## To Request Technical Assistance (TA):



Broadband TA Request Form -

<https://broadbandusa.ntia.doc.gov/ntia-common-content/how-we-can-help>

### **BBUSA Resources**

- [Implementing a Broadband Network Vision: A Toolkit for Local and Tribal Governments](#)
- [Community Broadband Roadmap Toolkit](#)
- [Guide to Federal Funding of Broadband Projects](#)
- [Using Partnerships to Power Smart Cities](#)