

10TH ANNUAL STATEWIDE COMMUNICATIONS INTEROPERABILITY PLANNING CONFERENCE

September 20, 2016



Agenda

- TxPSBP Updates
- FirstNet Update and Questions
- Lunch – On Your Own
- SWIC Updates
- Focus Group Report Overview
- SCIP Update Discussion
- Panel 1 – Updating SOPs and RICPs
- Panel 2 – Training
- SCIP Vote

A stylized graphic of the Texas state flag, featuring a white star on a blue field, a white horizontal stripe, and a red horizontal stripe, positioned behind the main title text.

Texas Public Safety Broadband Network

UPDATES

Texas Outreach

2016 Town Hall Meetings



- Visit each COG by Q3 2016
- Coincide with Coverage Objective Workshops
- Provide latest developments, timelines, Texas activities

Executive Level Stakeholder Meetings



- Meet with Sheriffs, Police Chiefs, Elected Officials, and other executives
- Specific Goal: Meet with all 254 sheriffs in 2016-17
- Develop tracking/Mapping process

Plan Coverage Objective Workshops



- Opportunity for Regional, local, and Tribal agencies to validate FirstNet and Texas Baseline Coverage Map
- Data will be used by FirstNet and their partner to develop State Plan for Texas

State Plan Delivery and Decision



- Developed Texas PSBB Priorities List for use by FirstNet in State Plan development
- SEC review of State Plan Template
- Develop Texas State Plan Approval Process for FirstNet
- State Plan delivered to Governor

Strategic Advisory Groups



- Field Input is essential
- Transparency: the more inclusion, the more likely plan is developed and accepted
- Spread the work and tasks
- FirstNet Consultative Task Teams

Outreach to First-Line Responders



- Continue outreach and online learning portal
- Update/revise online learning
- Promotional and collateral material distribution, especially to executives
- Pre-formatted email outreach

Priorities

- Developed a list of 12 priorities for FirstNet to consider when developing the Texas State Plan
- The priorities were developed from feedback received during local and regional Public Safety Broadband meetings across the state



Texas Public Safety Broadband Priorities

1. Texas must have the authority to identify, activate and manage eligible users on the FirstNet system within Texas.
2. FirstNet must ensure that all hospitals are able to communicate with first responders and are able to provide applicable public safety and medical information over the NPSBN as needed. Include the ability for physicians and hospitals to communicate directly with first responders at an incident or in transit.
3. FirstNet should provide complete and continuous coverage along the border region from Brownsville to El Paso during the early phases of deployment. This coverage must be sufficient to incorporate ground, maritime, and air units operating on the border. The State recommends that FirstNet continues to work with the US State Department to develop a favorable 700 MHz treaty with Mexico that will be executed prior to phase I rollout or sooner. The State also recommends that FirstNet work with the State of Texas on cross-border communication efforts with the Government of Mexico.
4. FirstNet should ensure that school districts are included as eligible users during public safety events and secondary usage is allowed under covered leasing agreements. School Resource Officers (SROs) and public safety responders need the ability to communicate with each other as well as school administrative staff. On a secondary basis, schools should be allowed to use the Public Safety Broadband Network to provide broadband services to students and faculty using a covered leasing agreement.
5. FirstNet should ensure that all PSAPs across the State are covered. Public safety broadband and NG911 have parallel development to bridge the two halves of effective public safety communications, citizen and responder, together. Their intersection occurs at the communications/dispatch center. All Next Generation PSAPs will require backhaul connectivity of a sufficient size to support effective data and video exchange. FirstNet should prioritize integration between PSAPs and Next Generation 9-1-1 E911s and the Public Safety Broadband Network in order to leverage the State E911 as needed for backhaul connectivity, especially in rural areas.

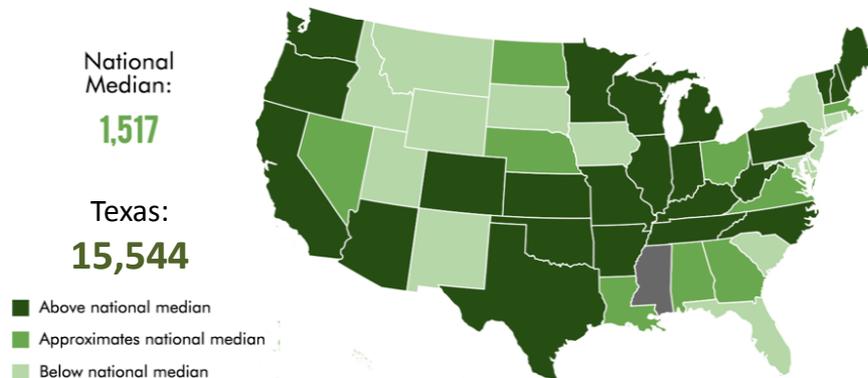


Outreach to Stakeholders

Meetings and Conferences:

- Initial Kick-off meetings AND Town Hall / Coverage meetings with **ALL** 24 COGs and 3 Tribes
- Discipline-Specific Conference presentations
- Local Executive Level meetings with Sheriffs, Chiefs and Elected Officials

Stakeholders Engaged

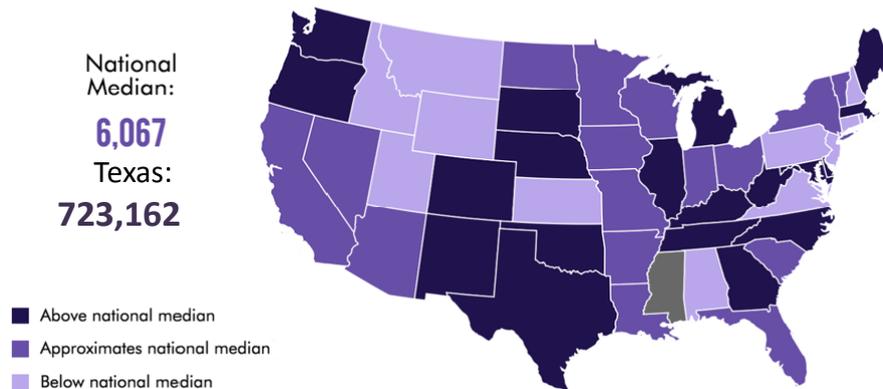


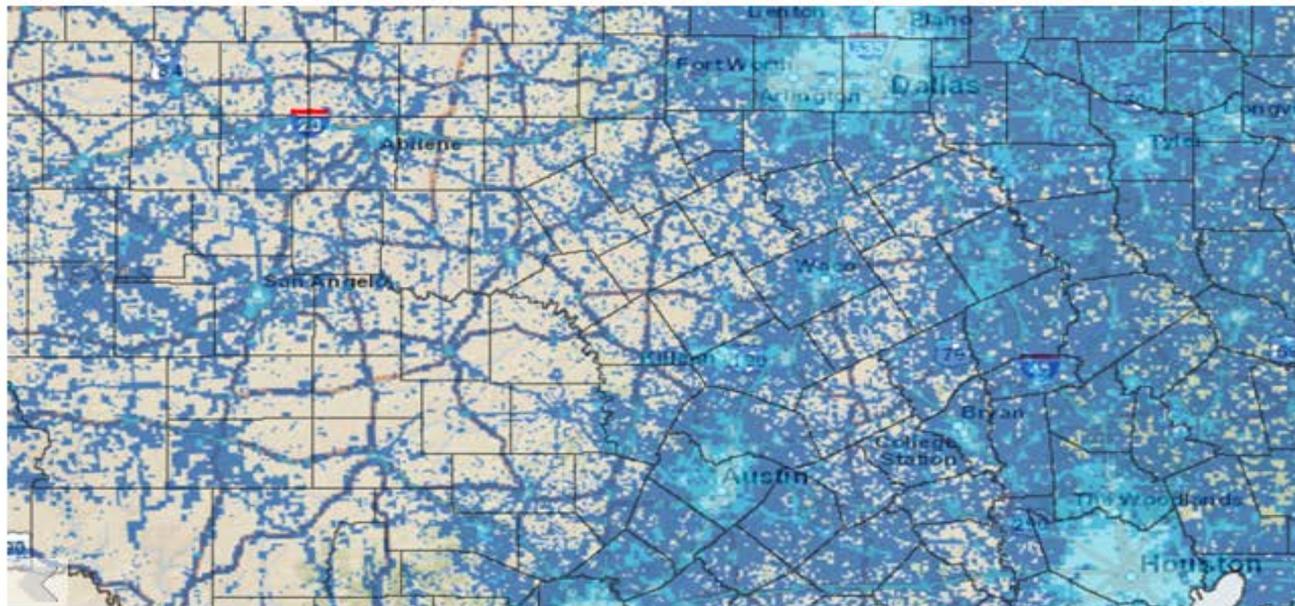
Outreach to Stakeholders

TXLTE.com Website and eLearning portal

- Texas has shared information through website hits, eLearning and fliers

Outreach Materials Distributed





Coverage!
It's important!

We will soon be reaching out to you for additional input on coverage needs in your area.

It is critical that public safety gets involved and lets their coverage needs be heard!

[Read more »](#)

Learn

- [Take an Online Course](#)
- [What is public safety broadband?](#)
- [Who is FirstNet?](#)
- [What is TxPSBP?](#)
- [How is it funded?](#)
- [Who are Early Builders?](#)

Get Involved

- [Data Collection](#)
- [Regional Planning Meetings](#)
- [Broadband Planning Teams](#)
- [Strategic Advisory Groups](#)
- [Upcoming Events](#)
- [Sign up for the Newsletter](#)
- [Request a Speaker](#)



TX Public Safety LTE @txlte

Darryl Ackley discussing NM Early Builder project at SW Border Comm Working Group Meeting in Phoenix @FirstNetGov



Online Learning Portal

Menu

- Desktop
 - Welcome and Viewing Needs**
 - Navigating the Course
 - Course Overview
 - Wireless Broadband Network
 - Public Safety Current Uses
 - Fact or Myth
 - Public Safety Broadband Net...
 - National Disasters
 - Growth of Consumer Traffic
 - Current Data Communication
 - Commercial Carrier Limitations
 - Differences
 - Similarities
 - Land-Mobile Radio (LMR)
 - Continued LMR Use
 - Applications – Interdisciplina...
 - Applications – Discipline Spe...
 - New Cellular Broadband Net...
 - FirstNet
 - Benefits of FirstNet
 - The Road to the Public Safet...
 - Funding Model
 - Costs
 - Texas Participation
 - Texas Public Safety Broadband
 - State and Local Implementat...
 - Whole Community Impacts
 - Local Input
 - BIG-Net
 - Public Safety Broadband Net...
 - Summary

DPSOnline

Resources



Introduction to Public Safety Broadband

Welcome to Introduction to Public Safety Broadband

Choose your viewing needs to begin.



Desktop/
Laptop



Assistive
Device User

Online Learning Portal

Differences

Select each characteristic below to learn more about the differences between commercial networks and the Public Safety Broadband Network.

Commercial Broadband

- Consumer oriented
- Not hardened
- Carrier band class

Number of Users

Devices

Network Resilience

Priority

Security

Speed

Applications

Control

Public Safety Broadband

- Hardened devices available
- Band Class 14 only for public safety
- Potentially marginally higher priced than consumer devices



Online Learning Portal

Public Safety Broadband Network: Example Scenario

Pitcher Bridge Collapse

At 7:34am an international vessel, The Curie, struck the pylons of the Pitcher bridge. At the time of impact, 12 cars were on the bridge with 17 passengers, and 100 crew members were on the ship with 24 seriously injured.

The number of responding agencies grows as more information is discovered. Interoperable communications is key in saving lives and property.

Select the next button to review the communication efforts during this incident.



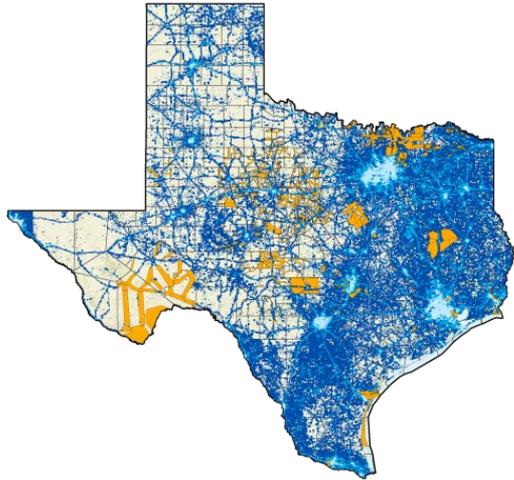
Online Learning Portal

Public Safety Broadband Network: Example Scenario

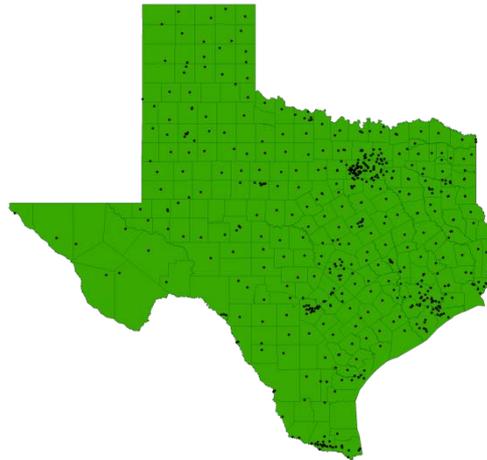
This network will open the door to the possibility of applications that are region-specific, or incident-specific. For this exercise, the application is incident specific to the bridge impact and subsequent collapse. This is only an example of the capabilities the Public Safety Broadband Network could open up.



September 2016 Data Submissions

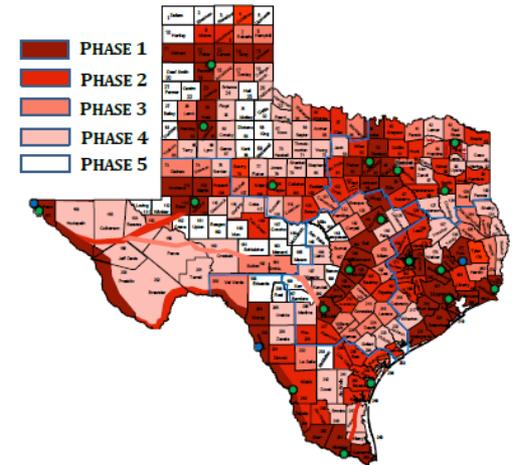


Coverage Objectives
Map Files



PSAP Locations

Texas Preliminary
PHASED B14 ROLLOUT v7
Prioritized by Public Safety Needs



Rural / Phased
Deployment Update

September 2016 Data Submissions

The "Tribes of Texas Report," Texas Tribal SAG



The Tigua Indian
Tribe of Texas

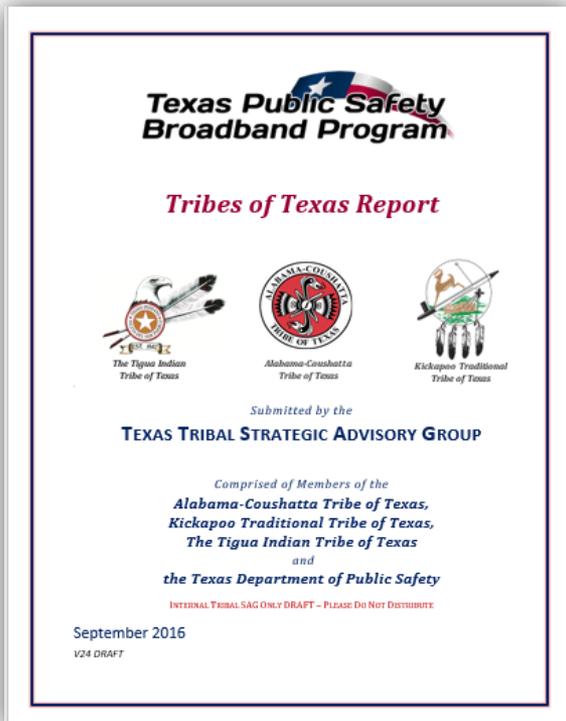


Alabama-Coushatta
Tribe of Texas

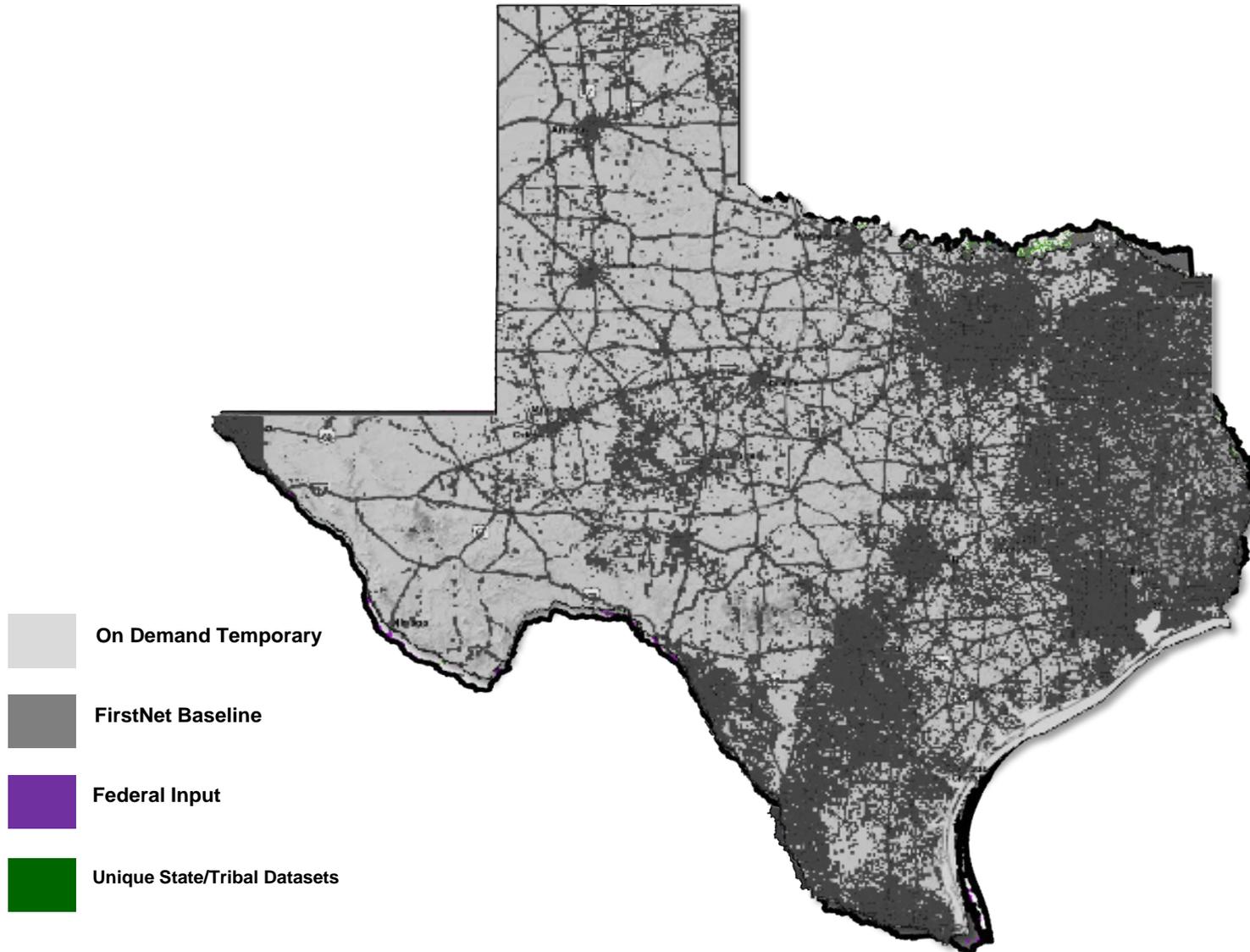


Kickapoo Traditional
Tribe of Texas

- Articulates Tribal needs, concerns and priorities to FirstNet, TxPSBP and the State of Texas.
- Includes illustrated Tribal backgrounders covering origins, historical milestones, culture, and customs of each Tribe.
 - Has created a deeper understanding, fostering closer relationships and greater collaboration.
- Culminates over two years of continuous engagement of all three Tribes of Texas



Coverage of 911 Dispatch Centers (2015)



Texas Public Safety Broadband Program



www.youtube.com/user/TxDeptPublicSafety/videos



**TXPSBP - Law Enforcement
Broadband Video**

84 views • 1 month ago



**TxLTE DPS Coverage Objective
Map**

382 views • 6 months ago

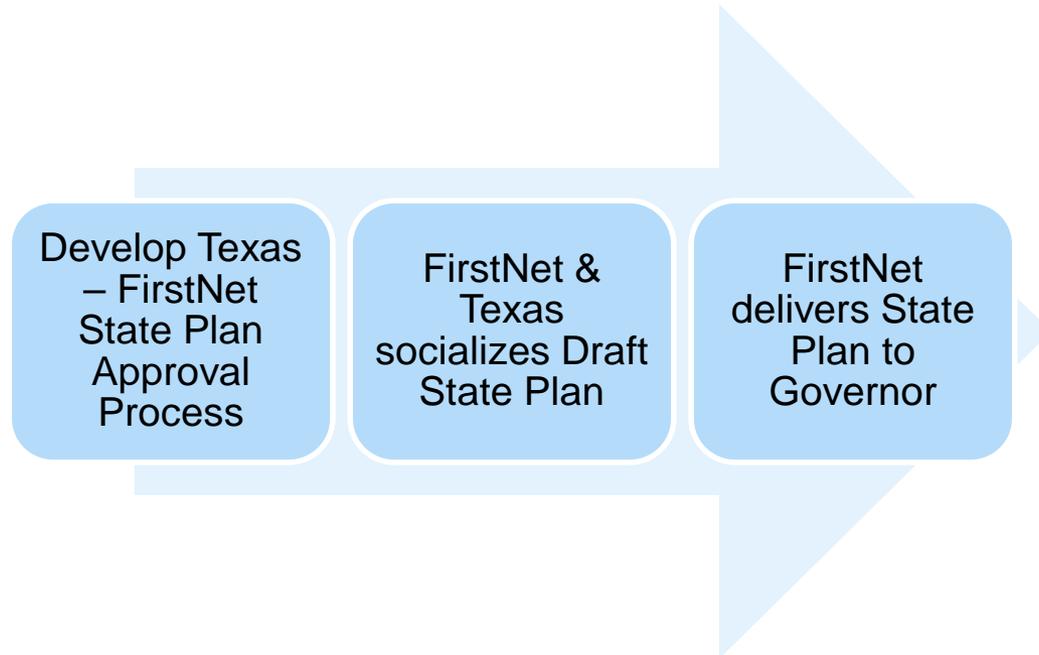


**Texas Public Safety Broadband
Program**

1,737 views • 1 year ago

Texas State Plan

- Texas will develop the process to review the FirstNet State Plan
- FirstNet will deliver the State Plan to Governor's Office
 - Projected state plan delivery dates: Summer 2017



Global Public Safety LTE Networks

USA – TBD



FirstNet

UK – 09/17

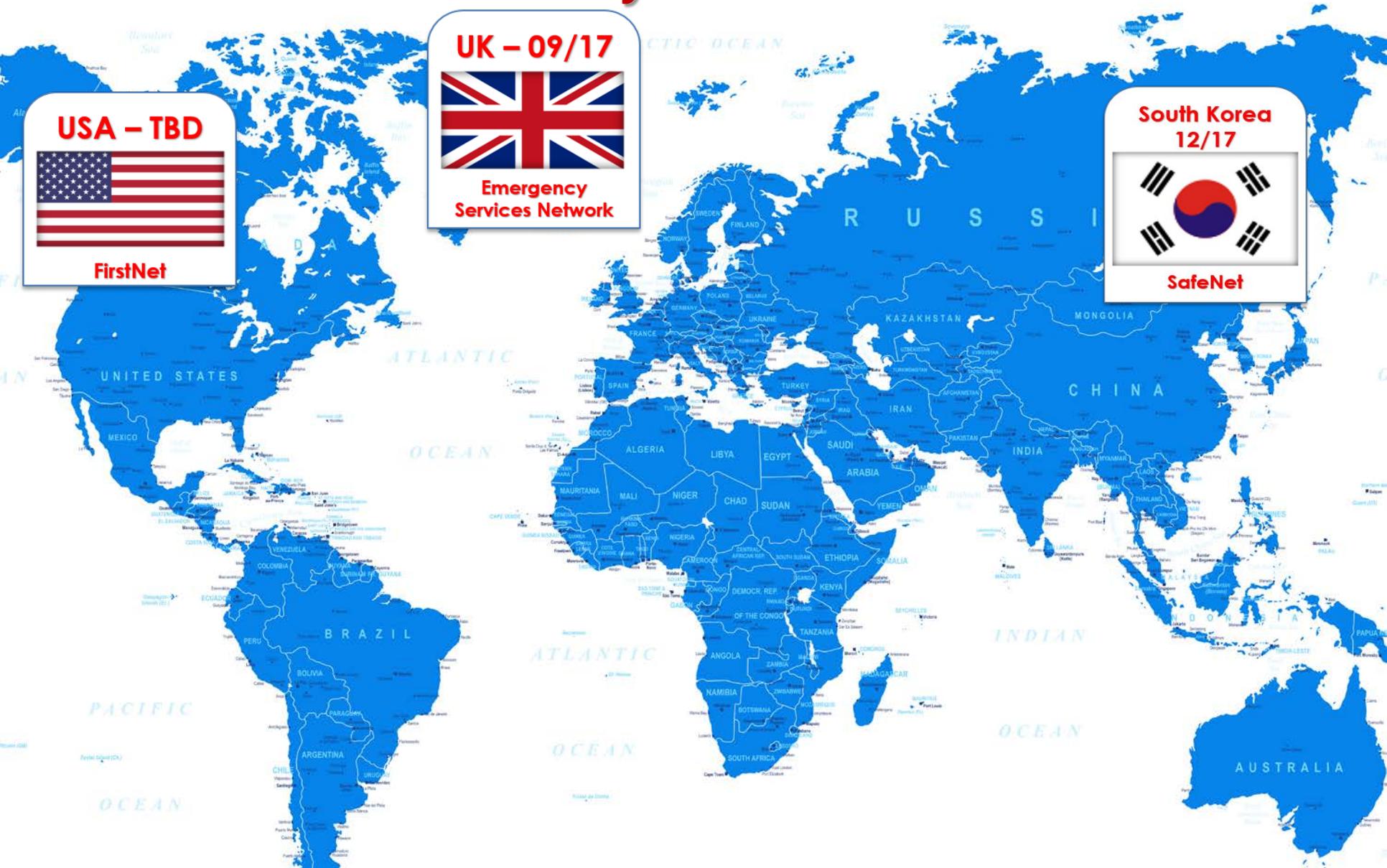


**Emergency
Services Network**

**South Korea
12/17**



SafeNet



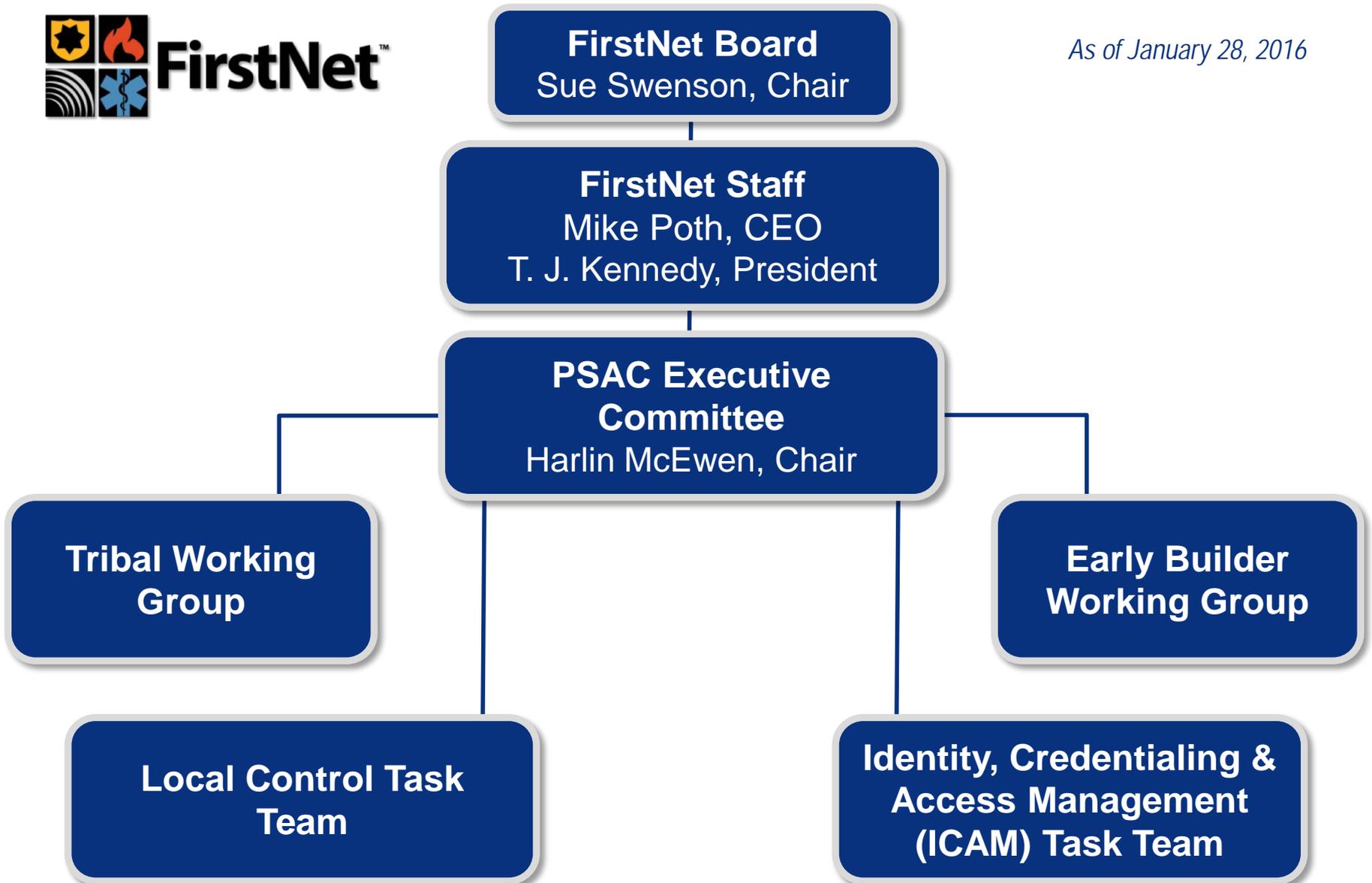
Additional Information

- FirstNet will be deployed in five phases
- Mobile coverage will build with each phase
 - Will likely need a 'roaming' plan – provided by FirstNet partner?
 - Details will be included in the State Plan
- Portable coverage will mature over time
 - Voice over LTE will need to be deployed to eliminate the need to carry two devices (one for phone, one for data)
 - In-building coverage and location accuracy

Public Safety Advisory Committee (PSAC)



As of January 28, 2016



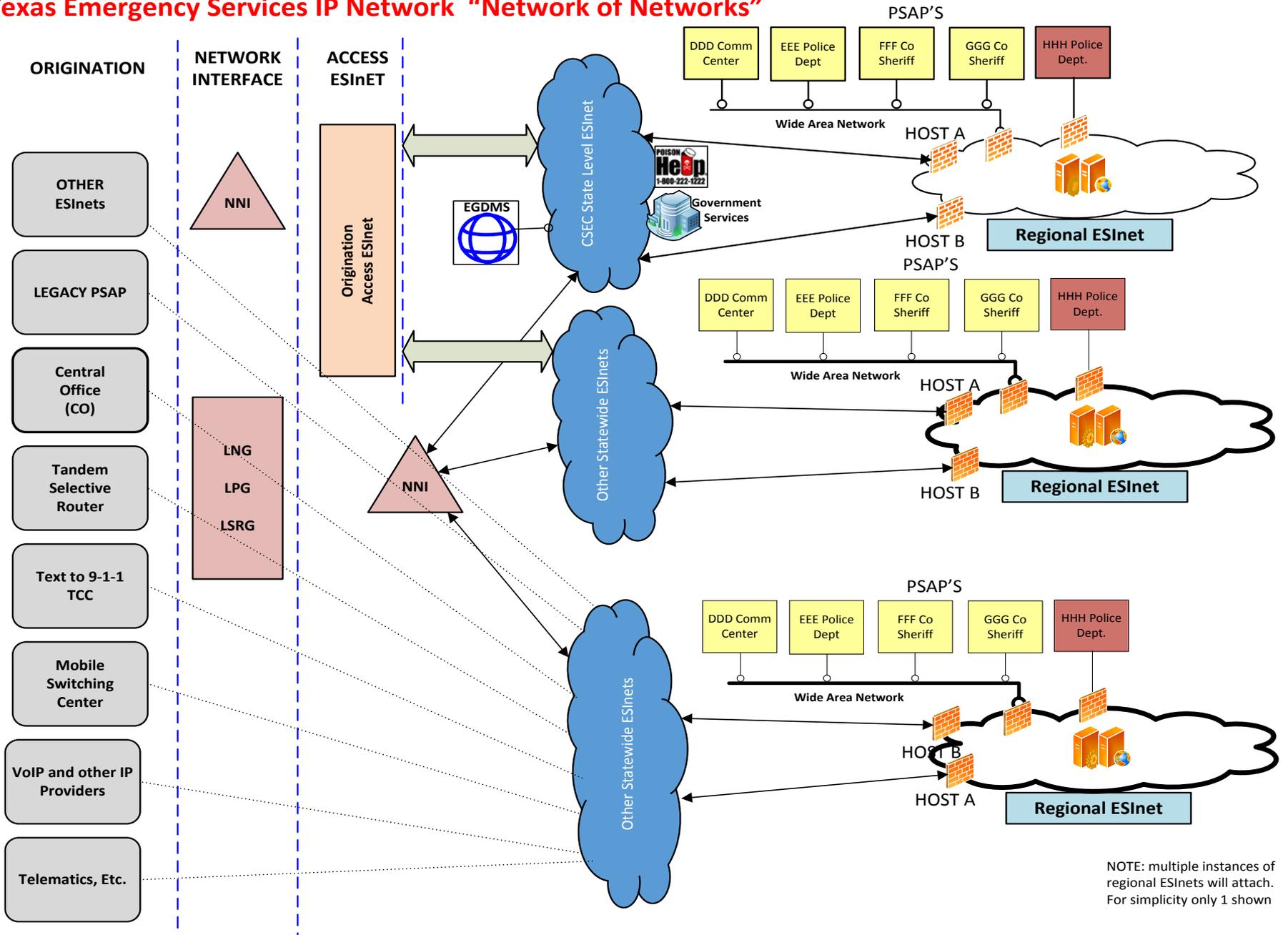
Next Generation 9-1-1 Update

- Phase I (FY 2014–15): Complete
 - \$12 M – Funded by 83rd Legislature
 - NG9-1-1 Geospatial Data Initiative
 - Emergency Service IP Network (ESInet) Planning and Design
 - Standards & Policies
- Phase II (FY 2016–17): In Progress
 - \$7.8 M – Funded by 84th Legislature
 - ESInet Governance Established
 - ESInet Test Lab
 - CSEC State-level ESInet – Procurement

Next Generation 9-1-1 Update

- Phase II (FY 2018–19): Planned
 - \$27.4 M – Requested from 85th Legislature
 - State-level ESInet – Implementation & System Operationalization
 - Traffic Migration Commencement (FY 2019)
 - 100% Text-to-9-1-1 Capable
- Phase III (FY 2020–21): Planned
 - \$30 M (est'd) – Funding will be required
 - State-level ESInet – Complete Implementation & System Operationalization
 - Traffic Migration Completion (FY 2021)
 - Legacy 9-1-1 Systems Decommissioned (FY 2021)

Texas Emergency Services IP Network "Network of Networks"



NOTE: multiple instances of regional ESnets will attach. For simplicity only 1 shown

Of Interest

- CSEC NG9-1-1 Master Plan (v.5, June 2016)
 - www.csec.texas.gov
- Text to 9-1-1: Status:
 - 123/589 PSAPs are capable
 - 50/100 PSAPs capable in CSEC/RPC 9-1-1 Regions
- NG9-1-1 Telemedicine Pilot Project
 - Texas Tech University Health Sciences Center
 - Pre-arrival treatment and decisions
 - Save valuable time and resources
- TDEM – UT Austin Flood Mapping Project
 - CSEC Enterprise Geospatial Database Management System
 - Providing Site Structure Address Points for 206 counties
 - Flood prediction, warning, evacuation, response



Harris County Public Safety LTE



Build Out Status - Technical

Current ON AIR

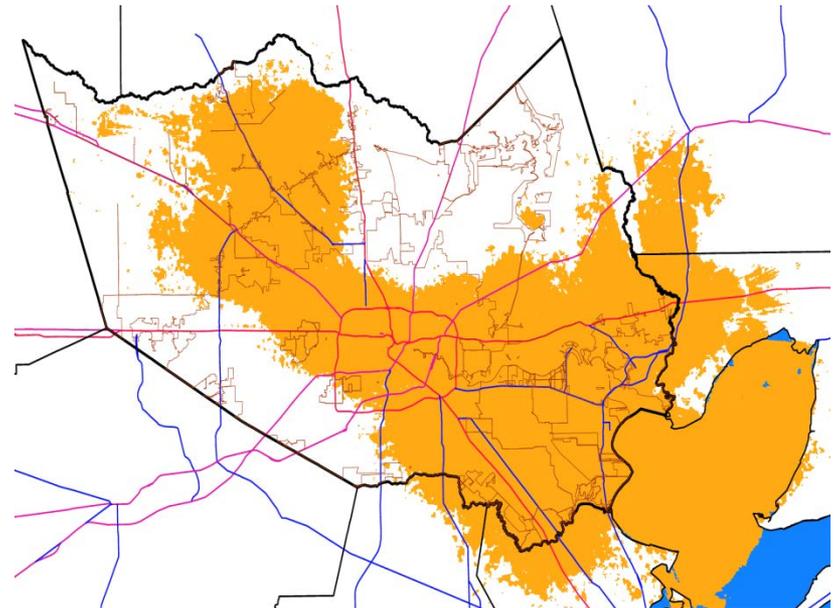
- 18 Sites in Harris County service area
- 1 Site in Brazos County (Extended range test site)
- 1 Mobile Unit

Current Build Out

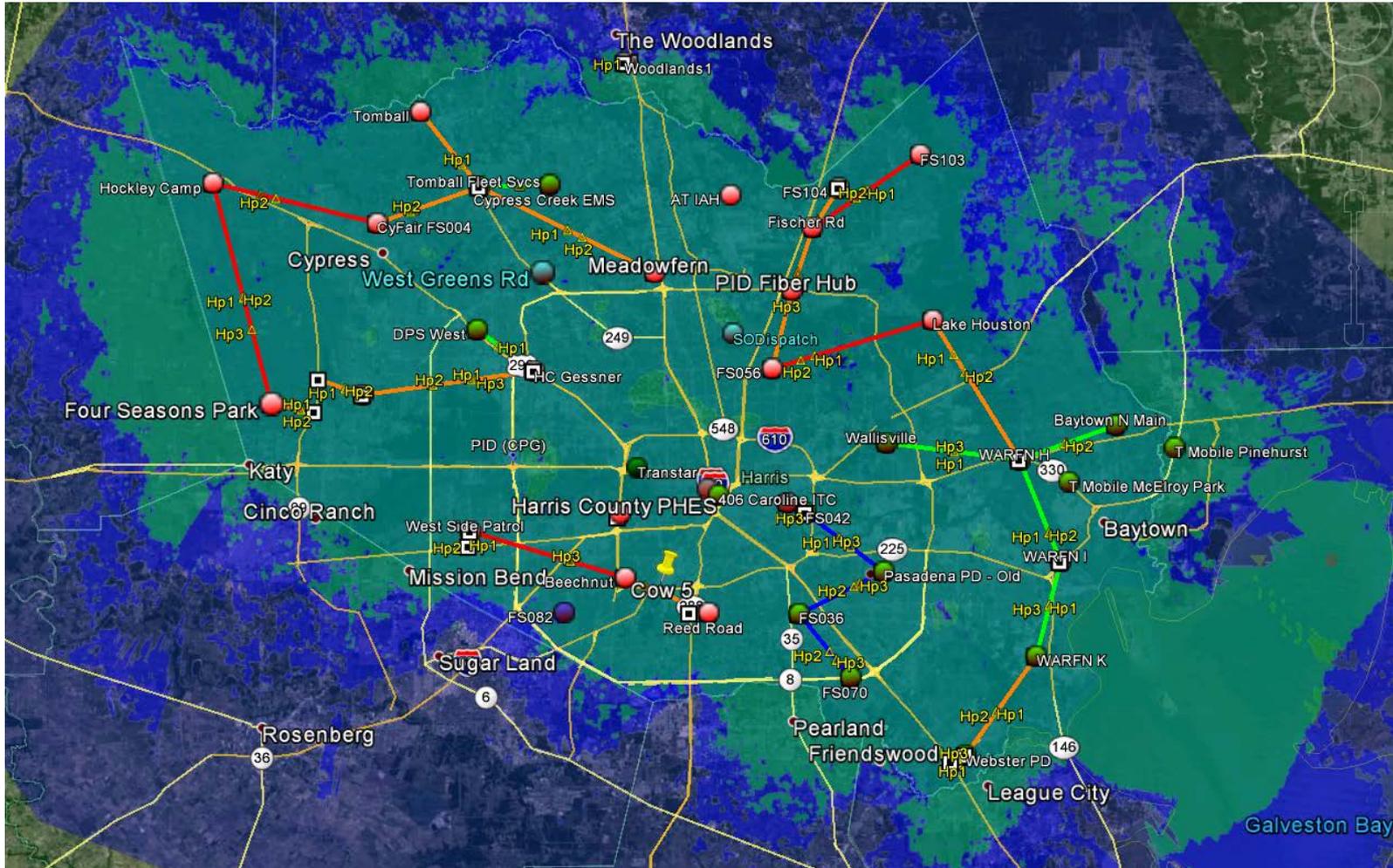
- 19 Sites under construction
 - 15 existing sites
 - 4 New Locations

Operational Activities

- Back Office System Eval
- Go-to market Planning



Planned Coverage



- 95% inbound coverage green
- 95% outbound coverage blue



What is “The Rodeo”?



Feb 25 - 27

247,491 people



March 1 - 20

2,214,539 people

SUMMARY

- 25 days
- 1,000+ PS personnel
- 30,000+ Volunteers
- 2,462,030 Visitors
- 30,911 Livestock entries



NRG Park



HCLTE Deployment



Special Events: Lessons Learned

Infrastructure

- Consider backhaul options when using deployables
- Operational deployments are difficult without indoor coverage
- Begin conversations with private facilities to have B14 included in DAS upgrades

Devices & Applications

- Stakeholders do not want to carry an additional device
- Existing products not ready for front-line officers
- Need to automate configuration management for large-scale deployment
- PTT over LTE should be leveraged for specific use cases only
- Shared devices are not recommended due to configuration/ICAM/battery life

General

- Customer Service is critical for end-user adoption





Harris County Public Safety LTE

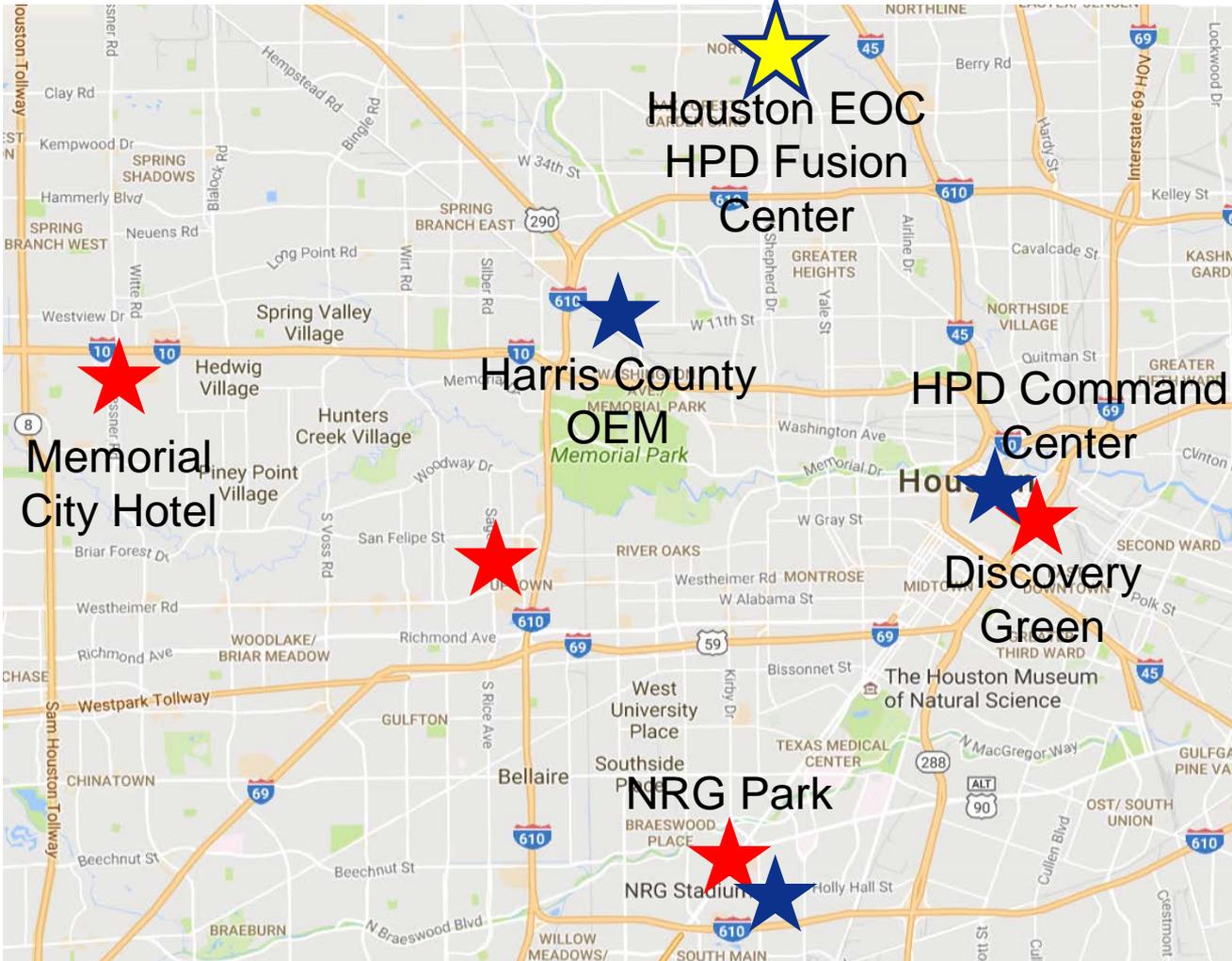


Goals

1. Leverage FirstNet to improve communications for Public Safety operations at Super Bowl LI
 - Engage stakeholders to define functional requirements
 - Develop practical use cases for devices & apps
2. Provide excellent end-user experience
 - Network connectivity / performance
 - Device & app performance / configuration
 - Ease of use
3. Business Development Opportunity



Public Safety Operations



HARRIS COUNTY



Identify Apps for Testing

Application	Function/Purpose
Location Services	Sting
Non-P25 Voice	ESChat (PTT) Mitel (VoIP)
Field Reporting	Digital Sandbox WebEOC
Video Streaming	Mitel GoCoder
Security Ops Data Repository	HISN
Fully integrated map	Digital Sandbox
Ad hoc / temporary video	Edge 360



Challenges

1. Device Configuration

- Testing Mobile Device Manager (MDM) solution

2. Leveraging Temporary Assets & Applications

- Identity/Credentialing/Access Management (ICAM)
 - Password Vault
- Network security challenges across multiple agency networks
- End User Training
- Device Distribution

3. Information Management

- App config: Get the right information to the right people (location, agency, team, etc.)
- Command Center Monitor Configuration

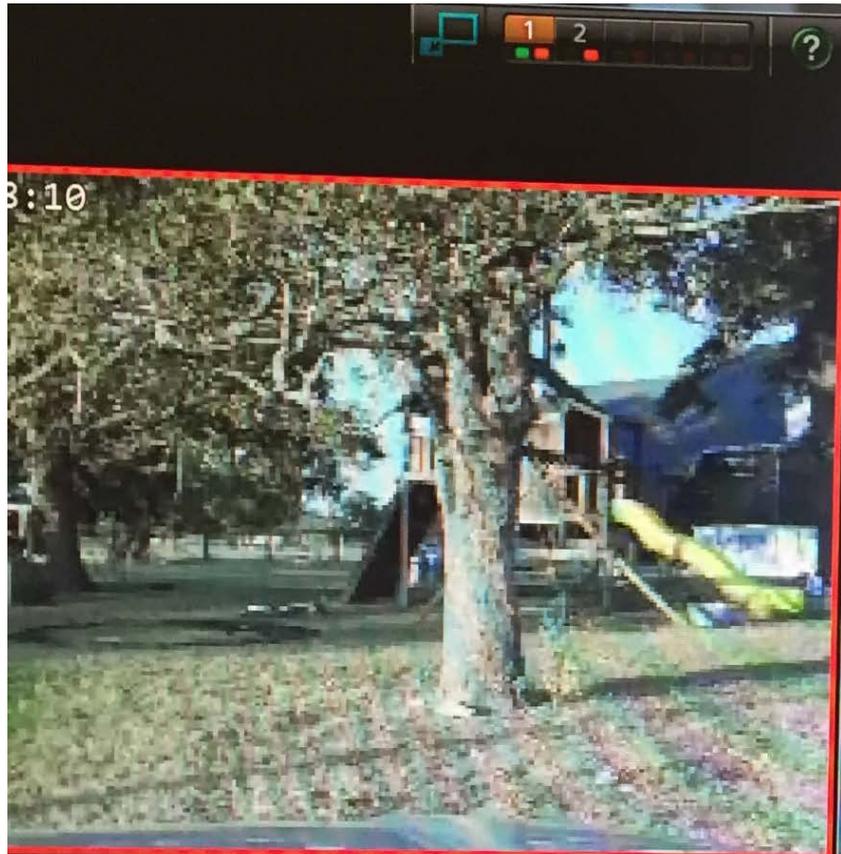


Brazos County Sheriff's Office

- Test site for Harris County LTE
- 64 patrol units equipped with Band 14
- Band 14 is primary data communications; switches to Verizon when out of coverage
- Network has already led to operational changes



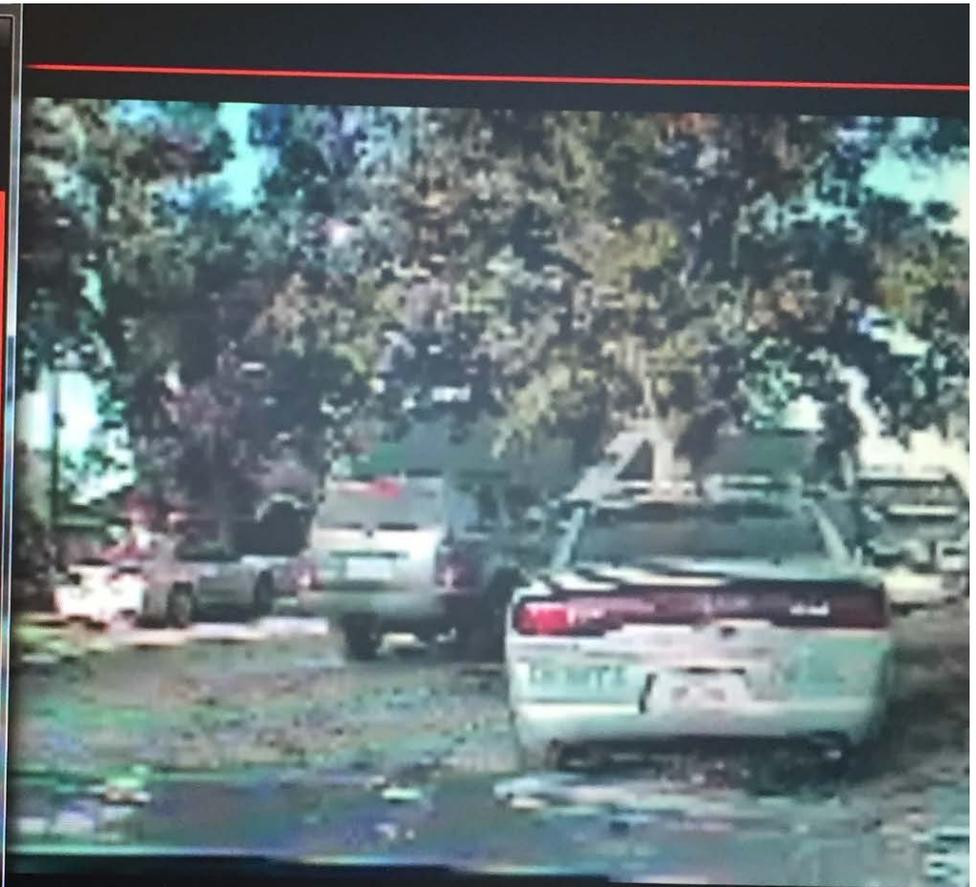
Armed Stand-off



10/5/2015 6:23:05 PM

2.Mic Dock

4.Lights



Network is busy

Trigger

1.MIC TALK

3.MUTE

16.GPS

2.MIC DOCK

4.LIGHTS

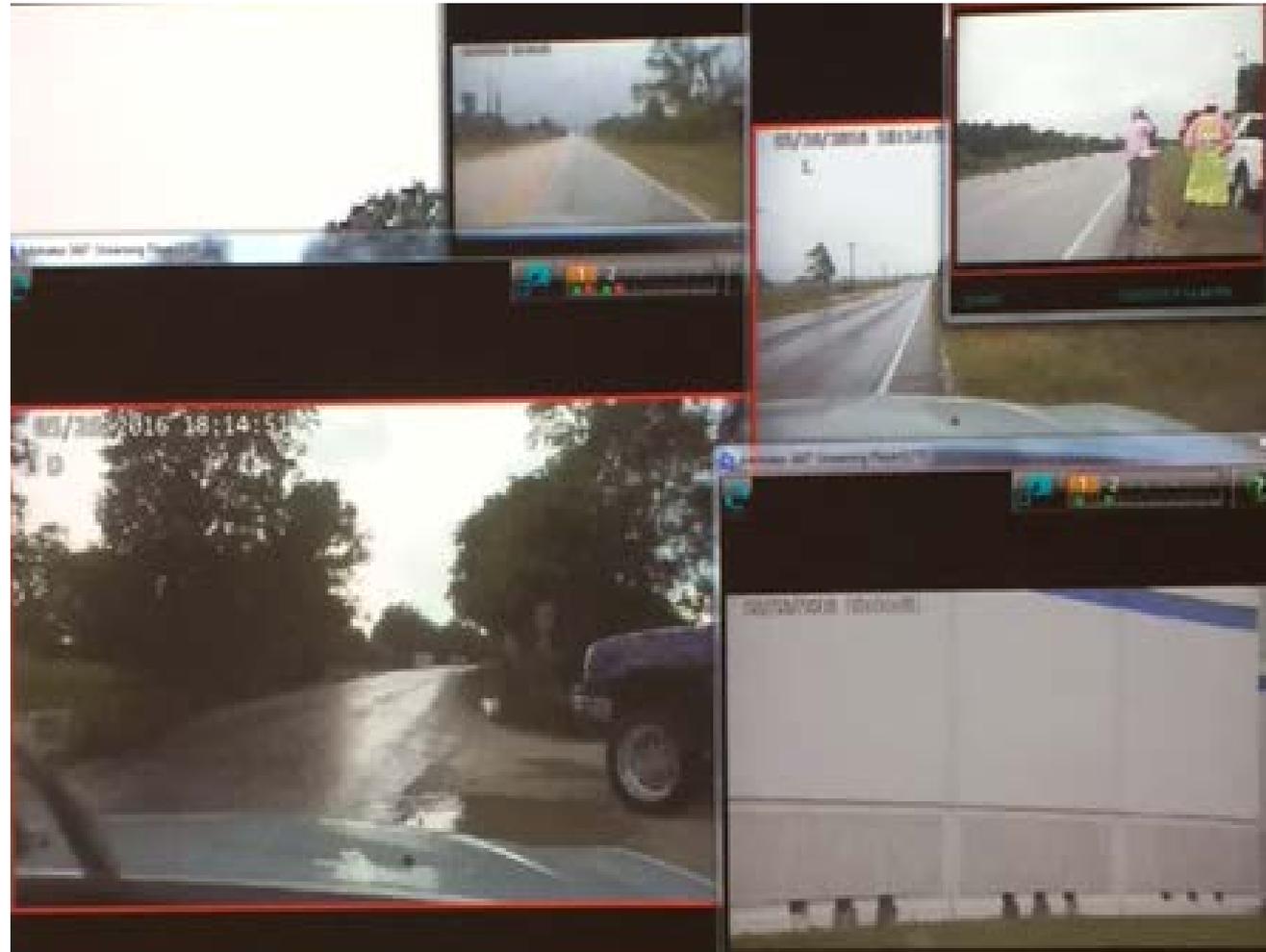
May 2016 Extreme Weather



Flooding &
tornado in
Bryan

Six Brazos Co
vehicles

Streaming
video from
flooded areas
to Sheriff's
Office



Next Steps - Objectives and 2017 Plan

Outreach to First-Line Responders



- Continue outreach and online learning portal
- Update/revise online learning
- Promotional and collateral material distribution, especially to executives
- Pre-formatted email outreach

Executive Level Stakeholder Meetings



- Meet with Sheriffs, Police Chiefs, Elected Officials, and other executives
- Specific Goal: Meet with all 254 sheriffs in 2016-17
- Develop tracking/Mapping process

State Plan Delivery and Decision



- Developed Texas PSBB Priorities List for use by FirstNet in State Plan development
- SEC review of State Plan Template
- Develop Texas State Plan Approval Process for FirstNet
- State Plan delivered to Governor



For More Information...



www.firstnet.gov



www.TxLTE.com



@TxLTE #TxLTE



LTE@dps.texas.gov



FirstNet®



Texas Governance Body Meeting

Working together to bring broadband to Public Safety Entities

**September 20, 2016
Austin, TX**

Agenda



Topic	Purpose
FirstNet Overview	<i>FirstNet will listen and learn</i>
Texas Consultation to Date	<i>Recap and consider continued data collection (optional)</i>
FirstNet State Plan	<i>Identify potential issues and set expectations for Texas review process</i>
The Governor's Decision	<i>Discuss process, timeline, and risks</i>
Preparing for Adoption	<i>Overview of Consultation Task Teams (CTTs)</i>
Questions	<i>Answer questions and begin preparing for Executive Consultation</i>

Today's Objectives



- **Carefully consider the responsibilities, risks and timelines associated with the Governor's decision**
- **Consider and establish a clear decision-making process to meet 90-day review period**
- **Consider how to educate individuals/bodies who will inform the Governor**

A New Model for Public Safety



“Following numerous major events and other significant disasters that demonstrate communications failures, we know that a new model is necessary.... Required is a national architecture for public-safety wireless communications.”

Chief Jeff Johnson - Congressional Testimony, May 2011

- Network demanded by public safety for priority and interoperability
- Made possible by the successful fight for D-Block 700 MHz spectrum
- FirstNet created by Law to develop and implement a single nationwide public safety broadband network
- Network will be public/private partnership to limit agency risk, speed deployment and meet public safety unique needs



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

FirstNet Chairwoman Sue Swenson

- FirstNet will be a new nationwide LTE cellular service provider
- Agencies will pay **monthly use fees** consistent with current commercial model
- Provide **mission critical** service with priority & ruthless preemption
- Support **mobile devices** including air cards, smartphones and tablets
- Support **existing & new applications** (CAD/RMS, Video, etc.)



“While we still have much work to do, FirstNet has set the stage by moving forward with urgency. We are now one deployment cycle away from having a nationwide public safety broadband network.”

FirstNet President TJ Kennedy

- **Key Accomplishments**
 - ✓ Released Strategic Program Roadmap
 - ✓ Completed 55 Initial Consultations
 - ✓ Participated in more than 340 stakeholder events in calendar year 2015
 - ✓ Released RFP; answered more than 400 questions
- **Key Upcoming Milestones**
 - Conduct focused consultation with expanded outreach
 - Award RFP for network partnership
 - Architect State Plans process and elements

RFP Statement of Objectives



Building, Deployment, Operation & Maintenance of the NPSBN



Financial Sustainability



First Responder User Adoption



Device Ecosystem



Applications Ecosystem



Accelerated Speed to Market



User Service Availability



Service Capacity



Cyber Security



Priority Services



Integration Of Opt-out State RANs



Integration of Existing Commercial/ Federal/ Tribal/State/ Local Infrastructure To Support NPSBN Services



Life-cycle Innovation



Program and Business Management



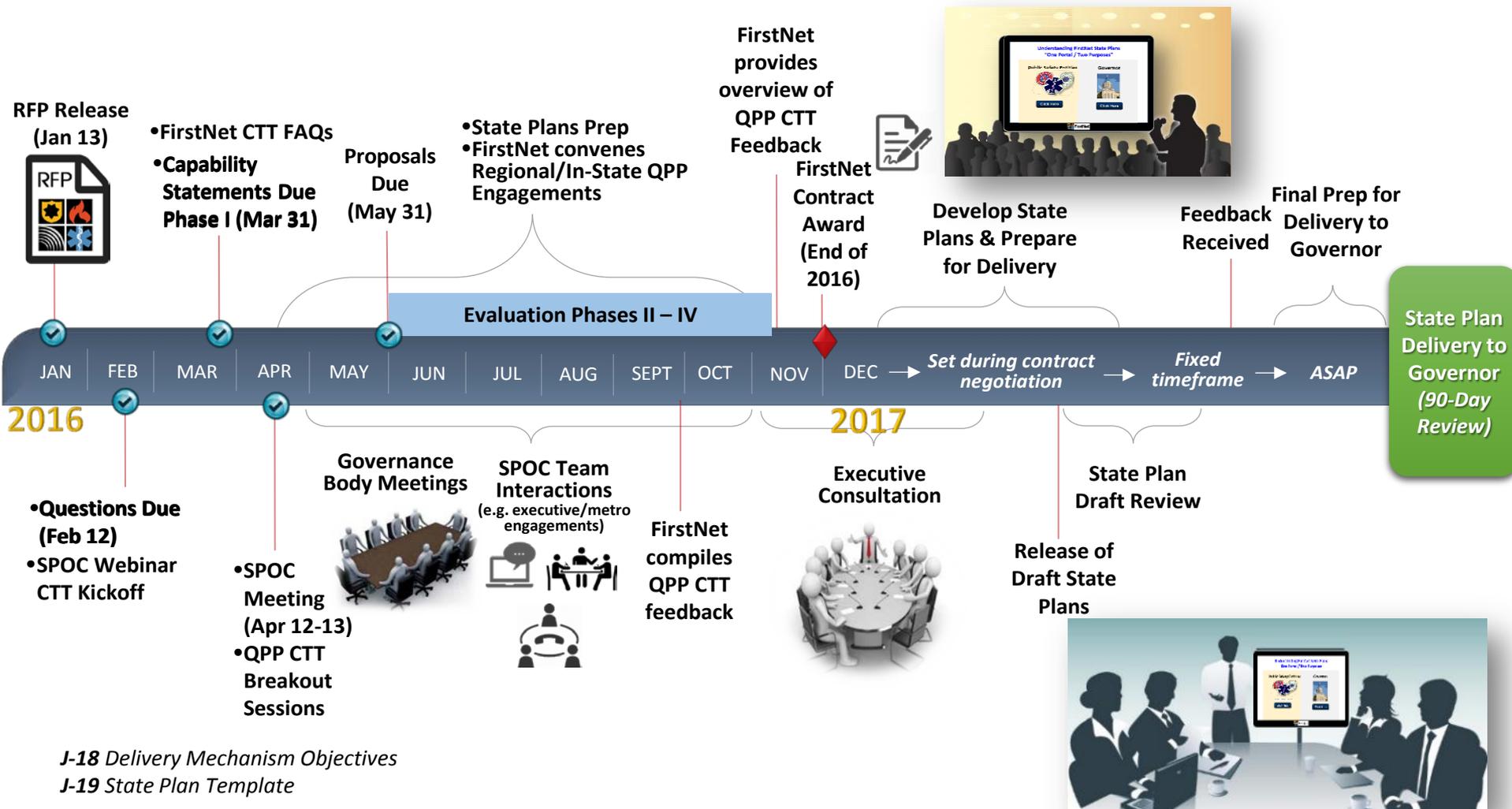
Customer Care and Marketing



Facilitation of FirstNet's Compliance With The Act & Other Laws

FirstNet Acquisition Process

FirstNet Timeline



Recap of Texas Consultation to Date



1. Texas Initial Consultation Meeting

- February 11, 2014, in Austin, Texas
- > 137 attendees

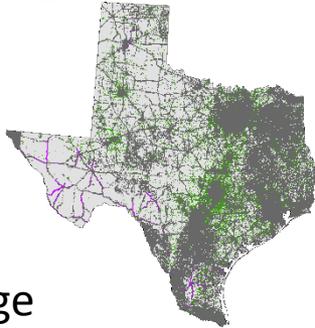
2. Additional Texas Specific Meetings/Communications

- Data Collection Call (October 2015)
- SPOC Kickoff Meeting (January 2016)
- Strategic Priorities Review Meeting (April 2016)
- Region VI QPP CTT (May 2016)
- >70 events/meetings attended since December 2015

Data Collection Categories

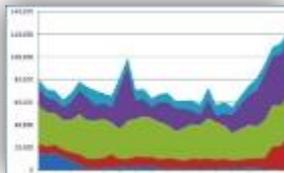


Coverage Objectives



- Coverage
- Phased Deployment

- Applications
- Data Usage



Capacity



Texas

Users and Operations



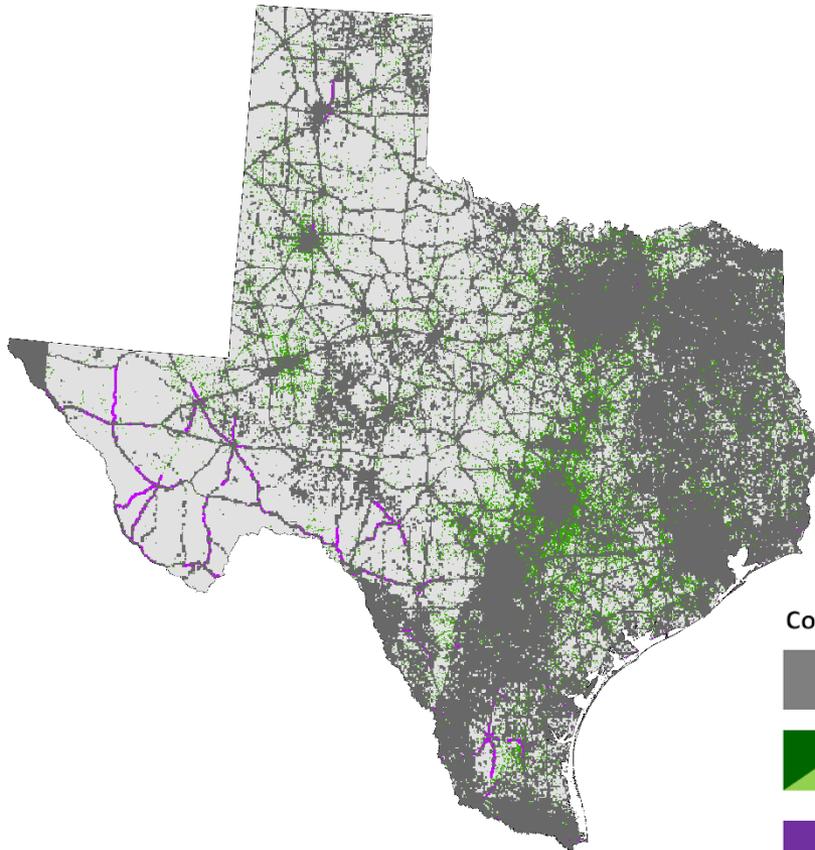
- Public Safety Entity Info
- Devices
- Operational Areas

- Current Service
- Procurement Vehicles
- Service Plans

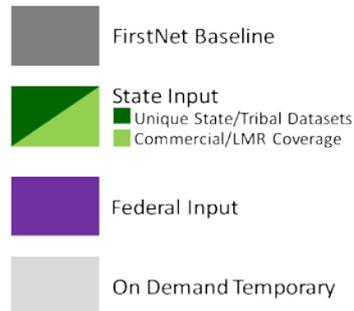


Current Service

Coverage Objectives

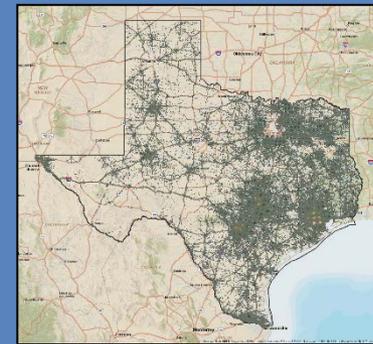


Coverage Objectives



Texas modified its coverage objective based on the following :

- PSAP 911 Call Data



- Hurricane Evacuation Routes



Texas Submission Summary



1,160

Agency Surveys

To Organize: Identify the basic demographics of each public safety agency (PSA)

Public Safety Agency (PSA) Name	Name of Organization
Department	State or Organization
Headquarters	State or Organization
City	Local County & State's FIMID (if relevant) Contact
Street Address	
City	
State	
Zip Code	
Website	Website or Other Webpage
Agency Type	Agency Type or Other Designation
Agency Size (Employees)	Agency Size or Other Designation
Agency Services	Agency Services or Other Designation
Agency Contact Person	Agency Contact Person or Other Designation
Agency Contact Email	Agency Contact Email or Other Designation
Agency Contact Phone	Agency Contact Phone or Other Designation
Agency Contact Fax	Agency Contact Fax or Other Designation
Comments	Comments or Other Designation

11,600+ Nationwide



287,300+

State Public Safety Personnel Represented

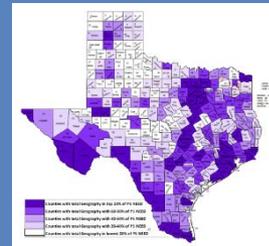
1.6 Million Nationwide

225 MB

Submitted

15.1 GB Nationwide

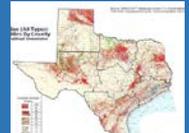
42



Ranking Tool parameters based on Public Safety input

10,922

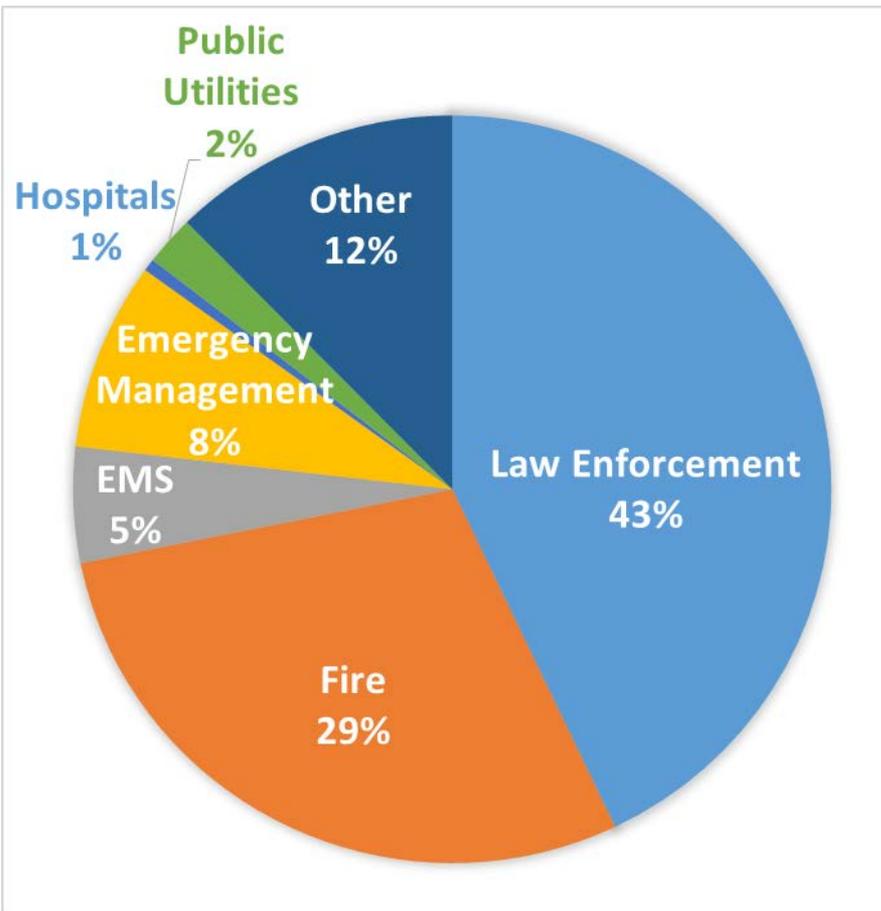
Data items incorporated into weighted Ranking Tool



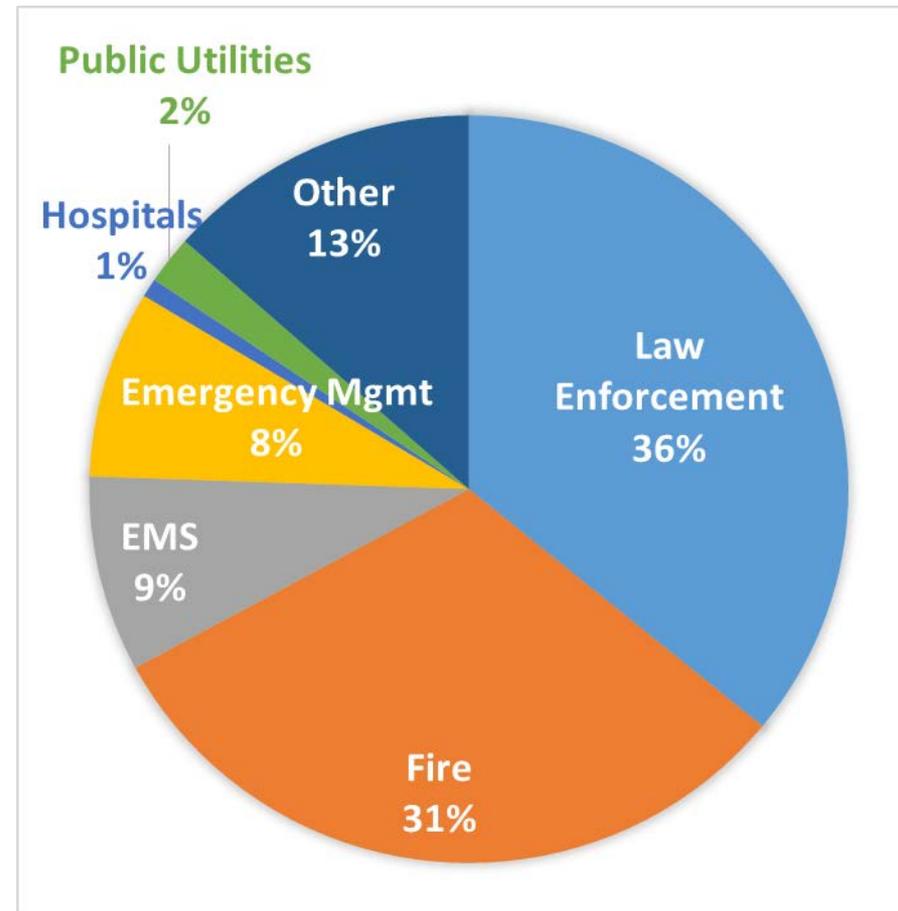
Who Responded to the Survey?



Texas



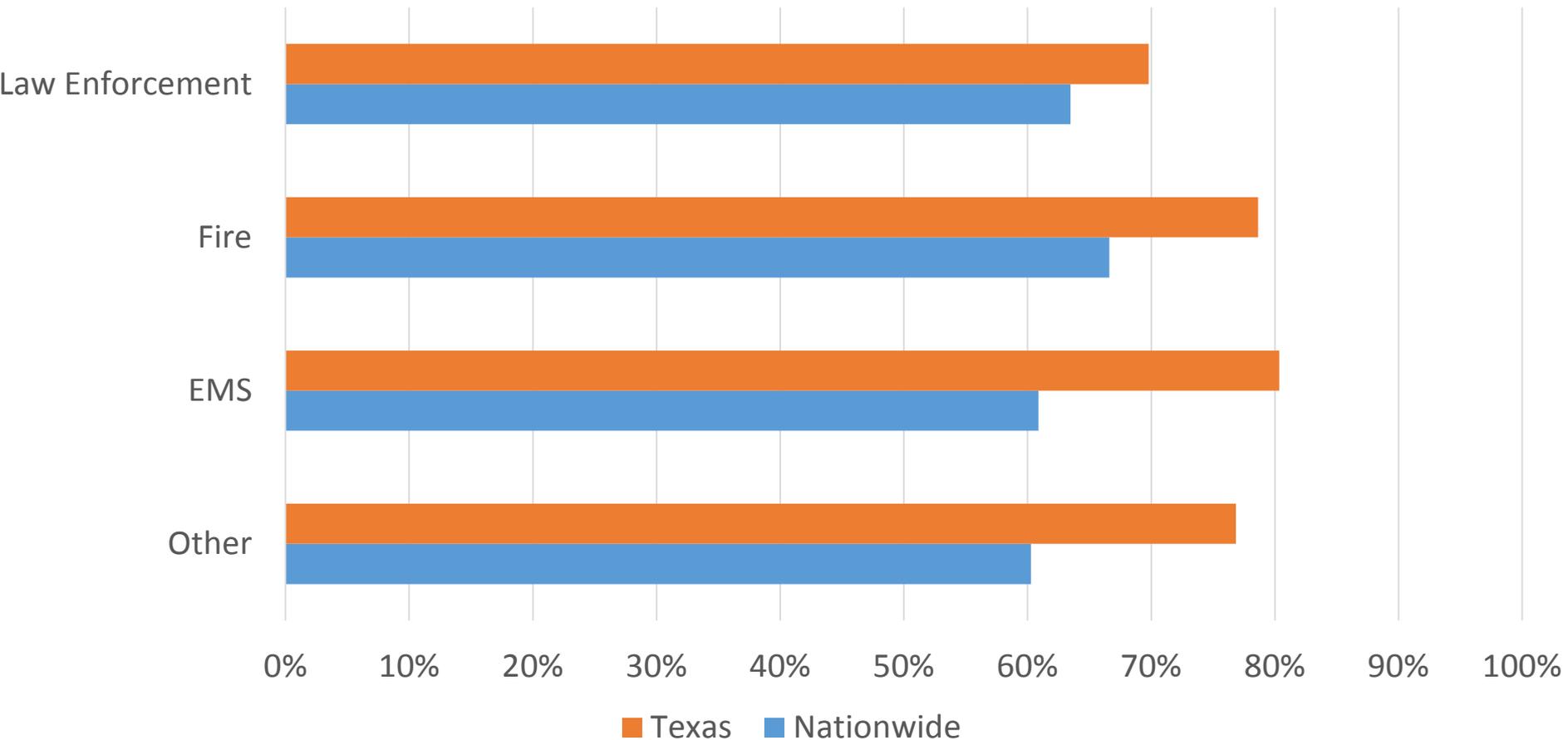
Nationwide



How Many Agencies Allow the Use of Personal Devices?



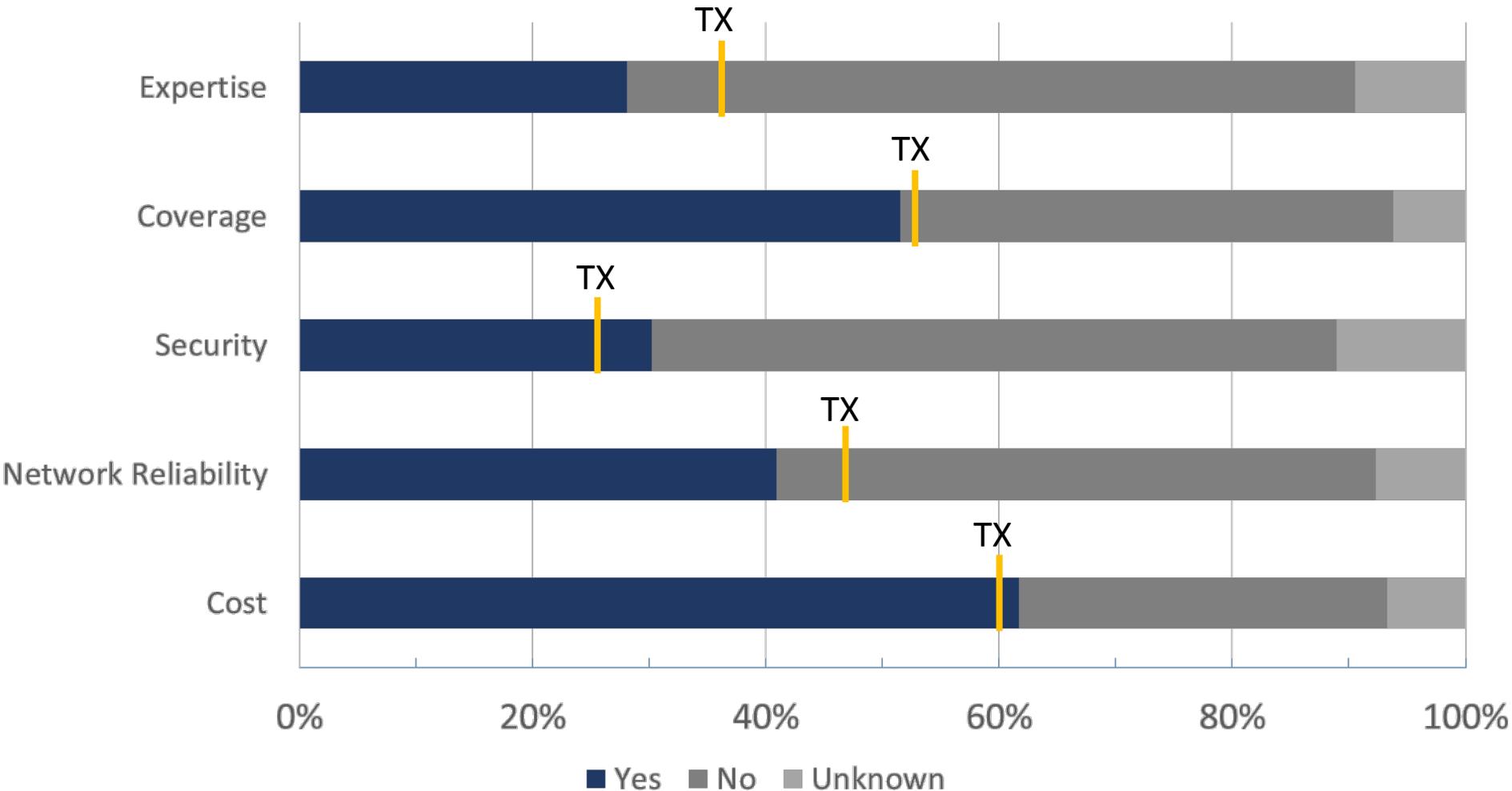
Percent of Responding Agencies Allowing Personal Use of Devices per Discipline



Barriers to Adopting Wireless Data per Survey Responses



BARRIERS TO IMPLEMENTING WIRELESS DATA



How Much Does Public Safety Pay Today?



50%

Of Nationwide
Responding Public
Safety Agencies Paid



<\$50

For Voice and Data
Services Per Device
Per Month

75%

Of Nationwide
Responding Public
Safety Agencies Paid



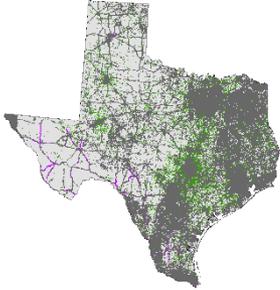
<\$65

For Voice and Data
Services Per Device
Per Month

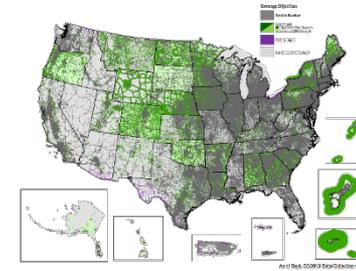
How Was State Data Used in the RFP?



Coverage Objectives



Nationwide Objective

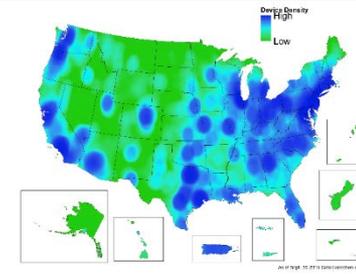


User Survey Data

User, device and tonnage estimates informed capacity evaluation and total addressable market

Z1. Objective: Estimate the total number of eligible Public Safety Entities, associated personnel and devices within the State/Territory. Use surveys, interviews and samples to help estimate the totals.

Discipline Examples	Surveyed Data (Sampling)				Estimated Totals			
	Agencies	Personnel	Devices	Use/Year	Agencies	Personnel	Use/Year	Devices
Law Enforcement (Municipal Police, State Police, Sheriff, Highway Patrol)	270	25,000	10,000	0.8	4,000	80,000	0.8	64,000
Fire Service	110	1,000	800	0.8	800	60,000	0.8	48,000
Emergency Medical Services	90	800	750	1.5	500	20,000	1.5	20,000
Courts, Corrections and Security					No Entry	No Entry		
Emergency Management					No Entry	No Entry		
Facilities and Land Management					No Entry	No Entry		
Highways and DOT					No Entry	No Entry		
Hospitals and Medical Facilities					No Entry	No Entry		
National Security/Intelligence					No Entry	No Entry		
Public Administration and Support Services					No Entry	No Entry		
Public Health					No Entry	No Entry		
Public Safety Communications					No Entry	No Entry		
Public Utilities (Electric, Gas, Water, Telecom and Sewer)					No Entry	No Entry		
Specialized Law Enforcement (Investigative, Intelligence, Signal Protection, etc.)					No Entry	No Entry		
Transportation Operations (Air, Pipeline, Rail, Sea and Waterway)					No Entry	No Entry		
Other Governmental Agencies					No Entry	No Entry		
Other Regulatory Agencies					No Entry	No Entry		
Other Non-Specified					No Entry	No Entry		
TOTAL	400	26,500	11,500	1.2	1,300	140,000	1.3	174,000



Submission Files

RFP Reading Room





Pre-Acquisition Data Collection

(Due September 30, 2015)

- **Strongly Encouraged by FirstNet**
- **Informed RFP** (*Aggregated Nationwide and Full Submission in Reading Room*)
- **Considered in evaluation of bidders**
- **Helps State better understand its needs and environment**

Ongoing Data Collection (Optional)

(Due September 30, 2016)

- **Optional / State Decision**
- **Further Inform State Plan** (*If received by September 30, 2016*)
- **Considered for product and enhancement decisions**
- **Helps State better understand its needs and environment**

FirstNet State Plan

Development & Delivery Process

“SEC. 6302. STATE AND LOCAL IMPLEMENTATION.

(e) STATE NETWORK.—

(1) NOTICE.—Upon the completion of the request for proposal process conducted by the First Responder Network Authority for the construction, operation, maintenance, and improvement of the nationwide public safety broadband network, the First Responder Network Authority shall provide to the Governor of each State, or his designee—

- (A) notice of the completion of the request for proposal process;*
- (B) details of the proposed plan for buildout of the nationwide, interoperable broadband network in such State; and*
- (C) the funding level for the State as determined by the NTIA.”*



What the Law
requires...

What the States
are looking for...



What the RFP
will produce...

What the FCC &
NTIA need ...

Texas Public Safety Broadband Priorities Document



- Priorities document received (February 2016)
- Demonstrates Texas' strong advance preparations
- Reviewed 12 priorities with Texas SPOC and Team to gain full understanding (April 2016)
- Helps FirstNet to deliver best possible Texas State Plan
- Opportunities for early gains identified

Responsibilities and Decisions



	Decision	Responsibility
 BAND-14 CORE	N/A	<input checked="" type="checkbox"/> FirstNet <input type="checkbox"/> QPP <input type="checkbox"/> Customer Care <input type="checkbox"/> Applications
 RAN DEPLOYMENT	Governor Decides: <input type="checkbox"/> FirstNet Plan, or <input type="checkbox"/> Opt-Out	<input type="checkbox"/> FirstNet, or <input type="checkbox"/> Governor
 WIRELESS SERVICES, PRODUCTS & APPLICATIONS	Public Safety Entities Decide: <input type="checkbox"/> Adopt, or <input type="checkbox"/> Don't Adopt	Public Safety Entities <input checked="" type="checkbox"/> Enterprise Users <input checked="" type="checkbox"/> Individual Users

State Plan Decision Analogy



I would like to rent a room.

Do I want to build and operate the franchise in my state?



One Portal / Two Purposes



Public Safety Entities



COVERAGE

Band 14 coverage, possible non-Band 14 coverage, and deployable options



APPLICATIONS AND FEATURES

Public Safety-facing applications, Quality of Service, Priority and Pre-emption (QPP), ICAM and Mission Critical services



SERVICES

Plans, pricing, procurement options, security, and customer support



DEVICES AND ACCESSORIES

Band 14 device portfolio, accessories, and wearables

Governor

POLICY COMPLIANCE

FirstNet policies on coverage, security, performance and other matters must be planned for and adhered to in Opt-Out scenarios.

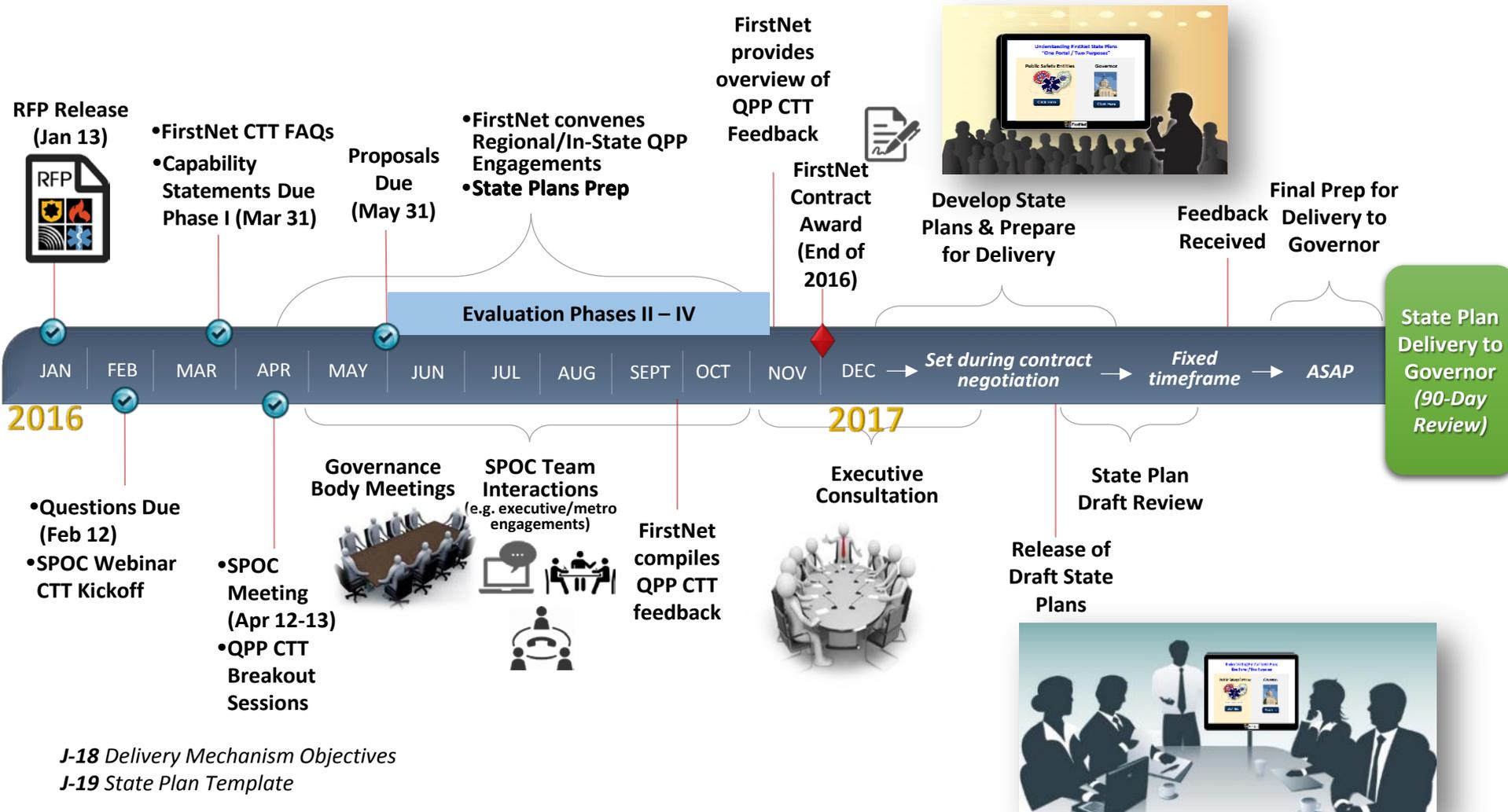
TIMEFRAME/COST

Opt-Out proposals must be comparable in terms of deployment timeframe and cost. Cost comparison metrics will be included.

INTEROPERABILITY

Alternative RAN proposals must have and maintain interoperability with the FirstNet core throughout the terms of agreement. Network policies and equipment specifications will be included.

FirstNet State Plans Timeline





The Governor's Decision

"SEC. 6302. STATE AND LOCAL IMPLEMENTATION.

(e) STATE NETWORK.—

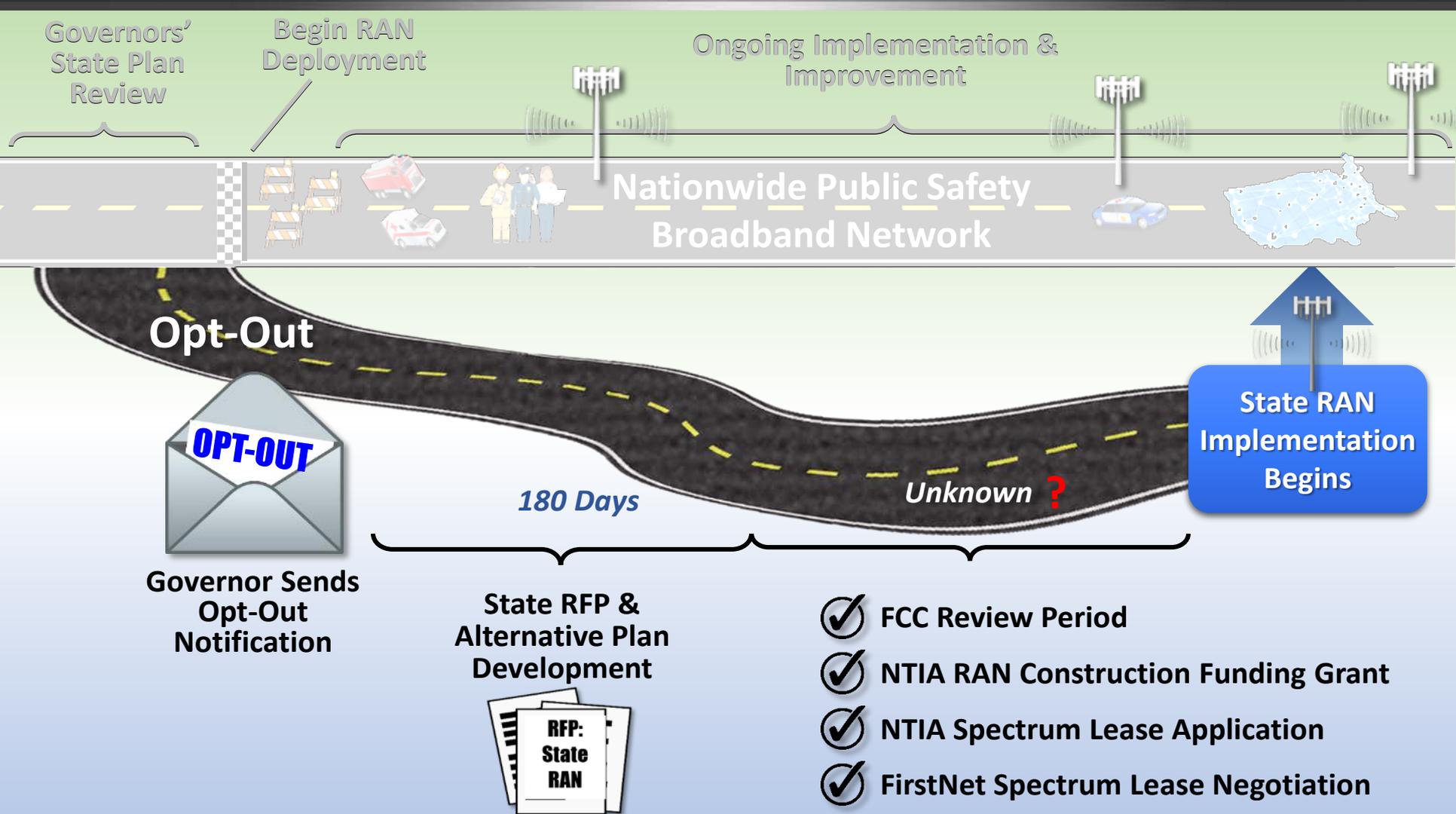
(2) STATE DECISION.—Not later than 90 days after the date on which the Governor of a State receives [a State Plan], the Governor shall choose whether to—

(A) participate in the deployment of the nationwide, interoperable broadband network as proposed by the First Responder Network Authority; or

(B) conduct its own deployment of a radio access network in such State."



Governor's Decision: Timeline



Governor Opt-Out Considerations



Who will be impacted by this decision and have they been consulted?

What are the implications of delay for public safety in the state?

Are we prepared to maintain and upgrade the network for 25 years?

What are the initial budget implications if we opt-out?

What is our technical capacity to handle the network requirements?

Will our state user fees offset the planned and unplanned RAN costs?





Preparing for Adoption Consultation Task Teams

"SEC. 6206. POWERS, DUTIES, AND RESPONSIBILITIES OF THE FIRST RESPONDER NETWORK AUTHORITY.

(2) STATE AND LOCAL PLANNING.—

(A) REQUIRED CONSULTATION.—In developing requests for proposals and otherwise carrying out its responsibilities under this Act, the First Responder Network Authority shall consult with regional, State, tribal, and local jurisdictions...with regard to the—

- i. construction of core network & any radio access network build out;*
- ii. placement of towers;*
- iii. coverage areas of the network, whether at the regional, State, tribal, or local level;*
- iv. adequacy of hardening, security, reliability, & resiliency requirements;*
- v. assignment of priority to local users;*
- vi. selection of entities seeking access to or use of the nationwide public safety interoperable broadband network*
- vii. training needs of local users."*



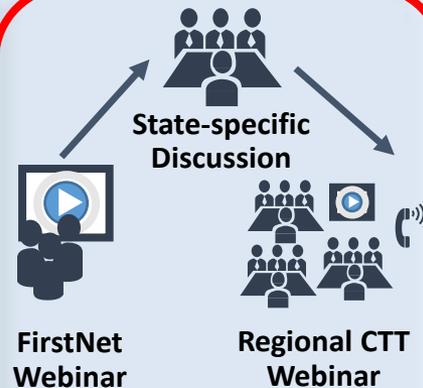
2016 Consultation Elements



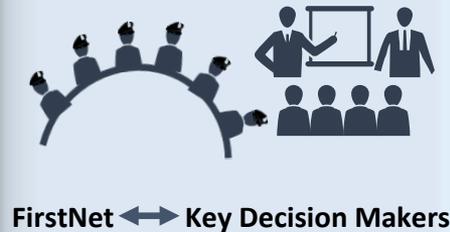
SPOC
Engagement
Meeting



Governance
Body
Meeting



Consultation
Task
Teams (CTTs)



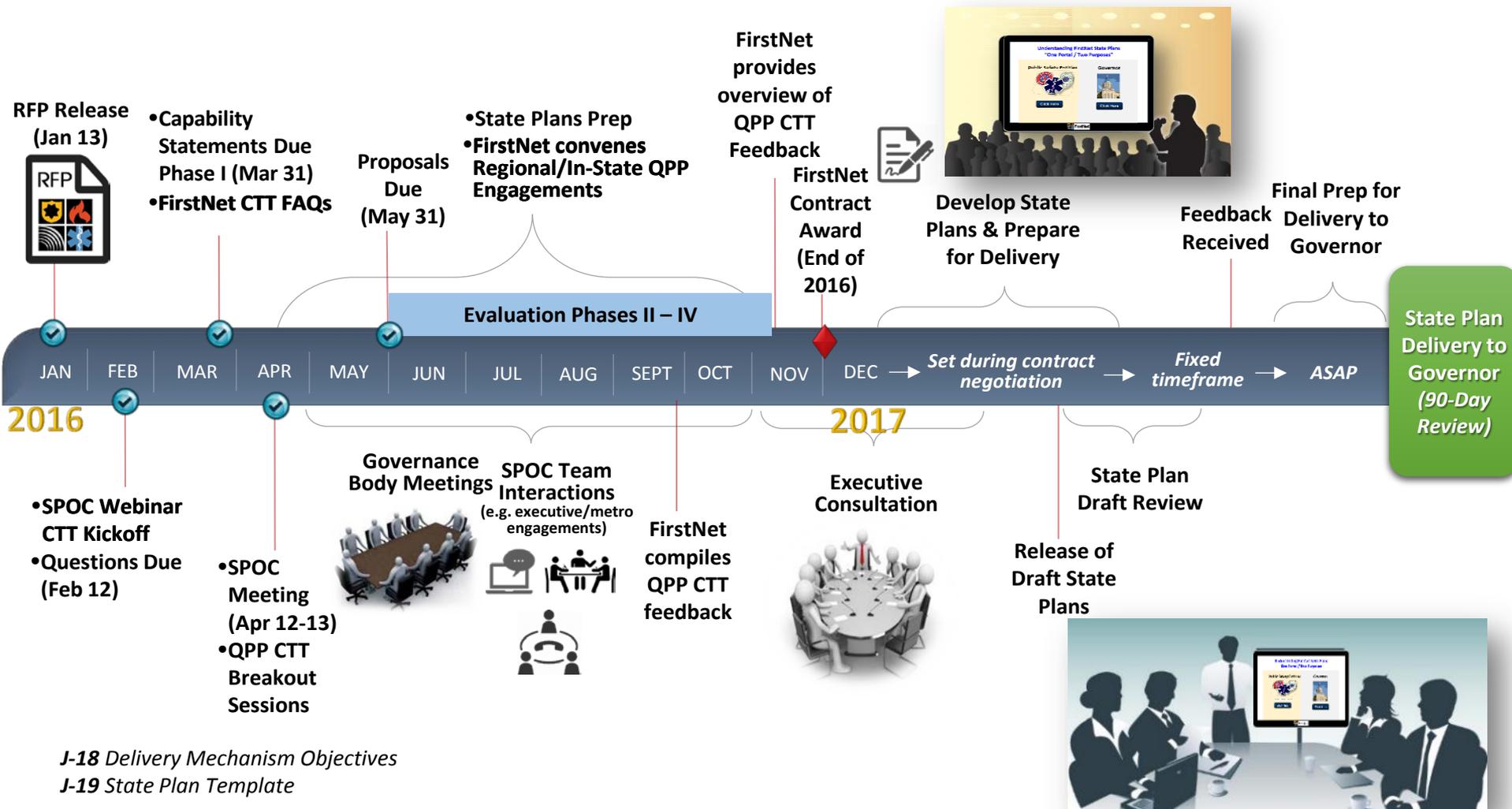
Executive
Consultation
Meeting

EXPANDED NATIONAL OUTREACH

EXPANDED FEDERAL CONSULTATION

- CTTs will help inform our policies and plans as we move into adoption of FirstNet services
- Your opinions on the value proposition of QPP and how to best incorporate that value into our services are of critical importance to us
- Your shared points of contact who are knowledgeable on delivering training and your specific training needs will be beneficial

FirstNet CTT Timeline



J-18 Delivery Mechanism Objectives
J-19 State Plan Template

Statutory Requirement – “SEC. 6206. (c) (2) (A) (vii) training needs of local users”

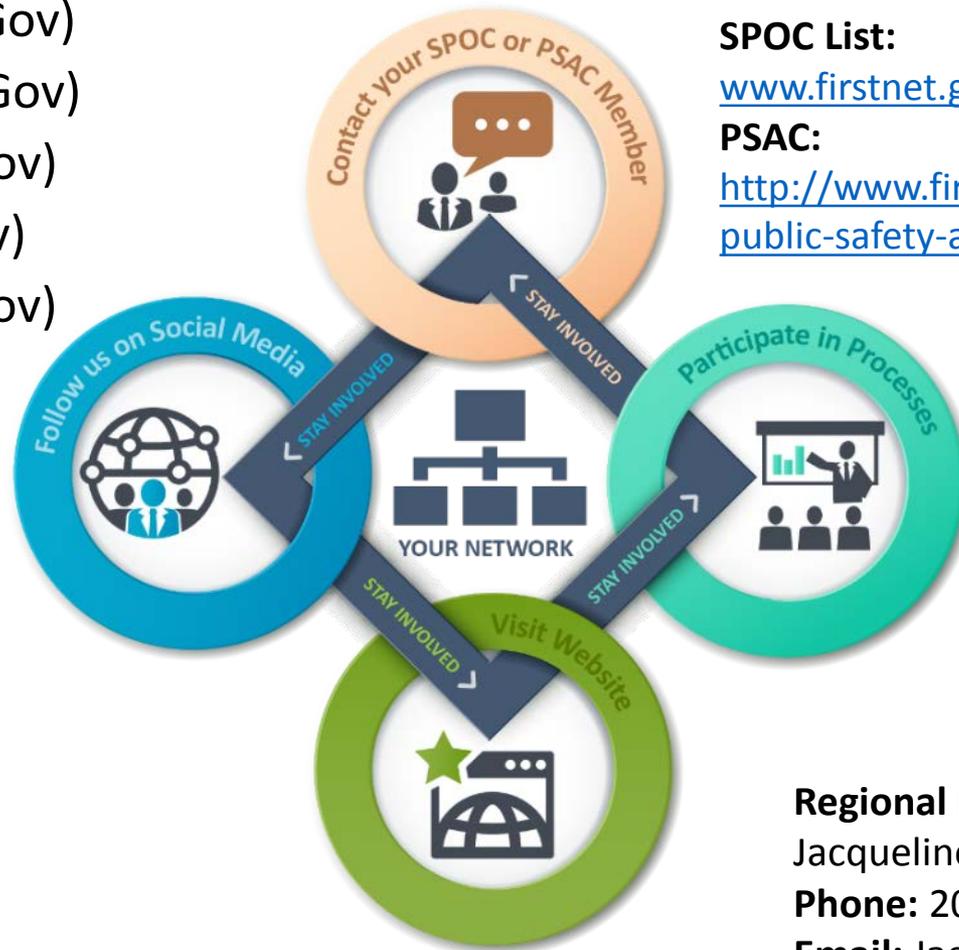
- ✓ Are there standardized training programs (beyond the agency level) on the use of mobile data?
 - ✓ State Training Academy?
- ✓ How would new mobile data applications/device training be integrated into your programs?
- ✓ Is training limited to initial use or is refresher training required/provided?
- ✓ Is evaluation of mobile data applications included in regular exercises?

- **Carefully consider the responsibilities, risks and timelines associated with the Governor's decision**
- **Consider and establish a clear decision-making process to meet 90-day review period**
- **Consider how to educate individuals/bodies who will inform the Governor**
 - Formal Executive Consultation – Fall 2016
 - Ad Hoc executive briefings (as requested)

Staying in Touch with FirstNet



-  Twitter (@FirstNetGov)
-  Google+ (+FirstNetGov)
-  YouTube (FirstNetGov)
-  Tumblr (FirstNetGov)
-  Facebook (firstnetgov)
-  LinkedIn
-  Flickr (FirstNetGov)



SPOC List:

www.firstnet.gov/consultation/spoc

PSAC:

<http://www.firstnet.gov/consultation/public-safety-advisory-committee>

www.firstnet.gov

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

Regional Lead:

Jacqueline Miller-Waring

Phone: 202-430-3398

Email: Jacqueline.miller-waring@firstnet.gov



FirstNet®



Questions?



UPDATES



2016 SCIP Workshop Update

- SCIP Workshop held on 6/14/16
 - 40 people attended
- Updated SCIP Initiatives and Goals



System Owners Meeting

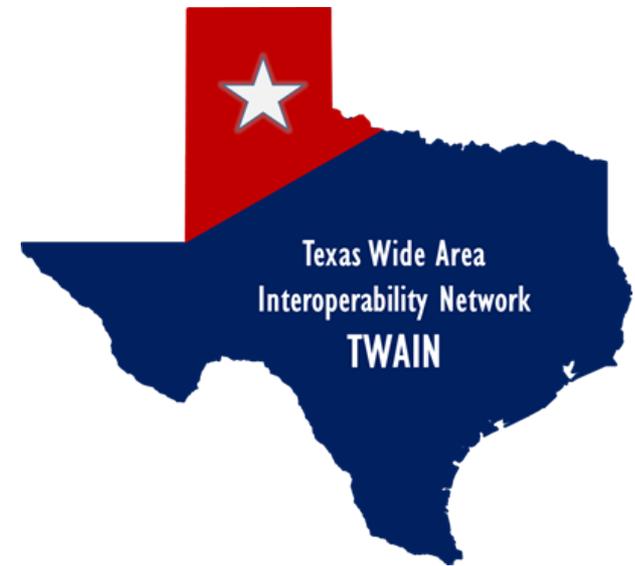
- 3rd annual meeting held February 16, 2016
 - 45 attendees, Hosted by Bastrop County
- Next Meeting – February/March 2017



System of Systems SAG

Held in-person and conference call strategy sessions Summer 2016

- Identified use cases / scenarios
- Voted on a name: Texas Wide Area Interoperability Network (TWIN)
- Developing a report that will provide an implementation strategy with suggestions and options available



SCIP Executive Council (SEC)

- SEC held 11 Webinars since the last conference in August 2015
 - Overview of State Plan template
 - FirstNet participation from Region IV Consultation Lead
- Assisted in hosting Town Hall / Coverage Objective Meetings with all 24 COGs and Tribes



SWIC NEXT STEPS



TSICP 2016/17 Task List

- Adding 700 Air-to-Ground Channels and Federal Interoperability channels
- **2016 TSICP will require an updated MOU**
- Develop Statewide Coordinated P25 Radio Unit Identification (ID) Plan guidance
- Add clarification on usage of fixed base repeaters utilizing Interoperability channels



Training Plan Implementation

- Basic Radio Training Template was developed by SAG in 2014
- 2016/17 initiative is to develop a training implementation strategy
 - Reach out to Academies
 - Schedule 'Train the Trainer' Webinars



Current / Future Grant Requirements

Current Grant Requirements

- SWIC Office provides SCIP compliance review on equipment purchases

Future Grant Requirements

- Provide verification of Statewide Radio ID migration planning
- Provide verification of “Recommended Channel” programming in current radios



The Future of First Responder Communications



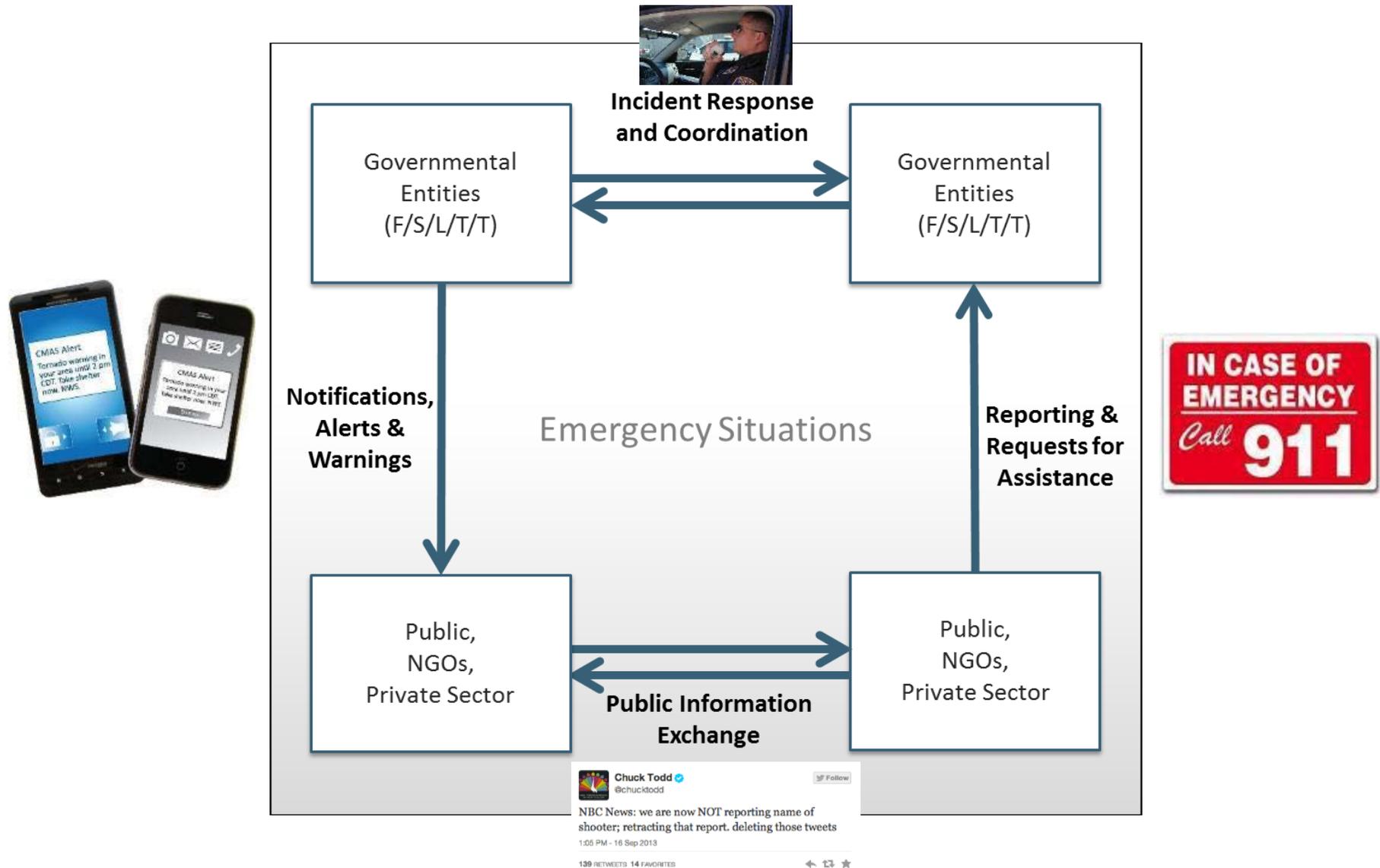
PAST

- Limited communication options
- Reliance on voice
- Scarcity of information

FUTURE

- Many communication networks
- Increase in mobile to mobile/data communications
- Abundance of information

Emergency Communications Ecosystem



Social Media



- To begin incorporation of the OEC Communications EcoSystem; Texas wanted to gauge the current usage of different types of Social Media already in place
- 2016 Focus Group asked for current Social Media usage by public safety agencies in Texas

COGs reported **601** sites are currently used by agencies

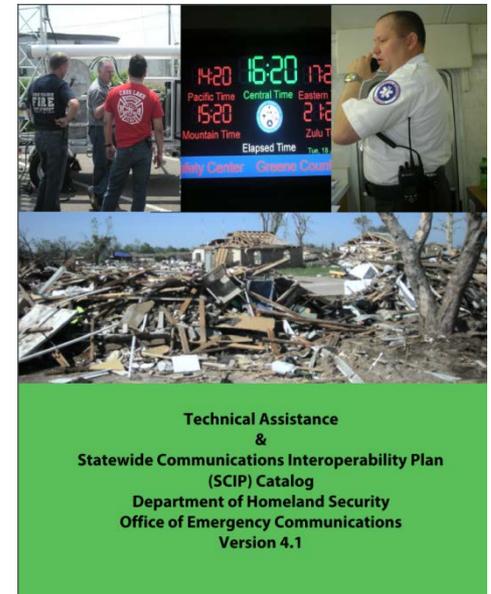
- New Social Media SAG to develop Best Practices / Guidelines



Technical Assistance

2016 Technical Assistance Requests

- Super Bowl Communications Planning – City of Houston
- State Sponsored COMT TtT Course
- State Sponsored COMMEX Support
- RADO Course
- Regional Communications Enhancement Support (2 COGs)
- SCIP Workshop



FOCUS GROUP REPORT OVERVIEW



Governance

- Leveraging existing governance structures at the local level
- Many are compliant with the TSICP – though some agencies still may not know it exists

Challenges include:

- A lack of overall funding, results in reduced participation
- Difficulty maintaining compliance with the TSICP



Standard Operating Procedures (SOPs)

- Many are reviewing, updating, and training on SOPs on a regular basis (especially agencies using large systems)

Challenges include:

- Lack of training on SOPs
- Some have local SOPs, but not updated regional SOPs
- The RSOPs are not widely known or exercised
- Need a secure central repository for RSOPs



Technology

- Many either have Project 25 (P25) standard radio systems or are able to communicate with P25 systems
- Larger COGs are migrating P25 radio unit IDs to their allocated statewide ID range
- Many are programming radios in accordance with the TSICP



Challenges include:

- Lack of funding to purchase additional P25 radios to meet standards
- Lack of funding to re-program radios in accordance to the TSICP and Radio Unit ID Plan
- Many agencies still do not have the 'short list' of channels programmed



Training and Exercises

- The majority conducted some level of training and/or tested interoperability capabilities during an exercise
- Most current basic training is directed at new recruits
- Some agencies have begun using the Basic Training Template

Challenges include:

- Funding and time for training



Usage

- Most COGs have numerous trained COMLs and COMTs
- Encouraging agencies to use the Drill Template and many agencies have conducted drills using the template
- Many COGs are testing use of radio interop channels or are promoting their use

Challenges include:

- Funding and Time
- COMU personnel have issues completing task books
 - Limited events/incidents in region and lack of funding to travel to statewide exercises
- Some agencies don't recognize the need/importance of using interoperability channels



Outreach

- Some conducted demonstrations to share deployable equipment
- Outreach regarding the importance and need for communications funding is occurring at the regional level

Challenges include:

- Funding to conduct demonstrations
- Developing knowledgeable champions
- Education for Elected officials on the need for interoperable communications



Funding

- Most COGs conduct an annual Focus Group to identify and prioritize needs and plans for interoperability
- Some COGs are pursuing creative funding approaches

Challenges include:

- Funding to implement identified priorities
- Attendance at Focus Group meetings



AVAILABLE RESOURCES

All are available in the public safety library:

<http://www.publicsafetytools.info>

- Click on PS Library > Webview
- Search for 'Texas'

The screenshot displays the Public Safety Tools website interface, organized into three main columns: Tools, Resources, and Training. The 'Tools' column includes FMT (Frequency Mapping Tool), CASM NextGen (Communication Assets Survey & Mapping Next Generation), eSCIP (Statewide Communication Interoperability Plan), GETS (Request Priority over Wireline Telecommunications), TSP (Request Priority for Circuit Repair), and Links (Links to other resources). The 'Resources' column includes NECP (National Emergency Communications Plan), TL/SCIP Catalog (Catalog, Requests, and Evaluations), GETS (Request Priority over Wireline Telecommunications), TSP (Request Priority for Circuit Repair), Links (Links to other resources), NIFOG (National Interoperability Field Operations Guide), AUMFOG (Auxiliary Communications Field Operations Guide), WPS (Request Priority over Cellular Networks), and PS Library (Public Safety Library). The 'Training' column includes Gateways (Audio Gateway Training Materials & CBT), COMU (Communications Unit Overview Training), Proj. Mgmt. (Project Management Overview Training), Radio 101 (Basic LMR Overview Presentation), Tribal Outreach (Engaging Tribal Governments Overview Presentation), CASM NextGen (Targeted Training Information), and PS Tools Training (Public Safety Tools Training Schedule). The PS Library button in the Resources column is circled in red.



Training Templates

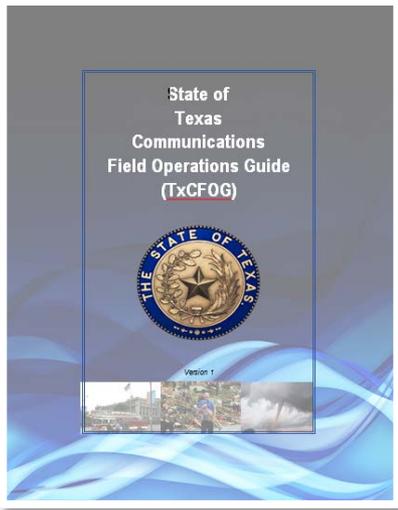
Basic Radio Training Template: A basic communications interoperability training package (PPT template, exercise template, lesson plan, and supporting docs)

Next steps: Train the trainer webinars, encourage adoption at training academies and other training entities

Cache Radio User Training: A 'Just In Time' training template to be used with Cache Radios

Next Steps: Agencies to save customized presentation on USB drives and include with their cache radio deployments

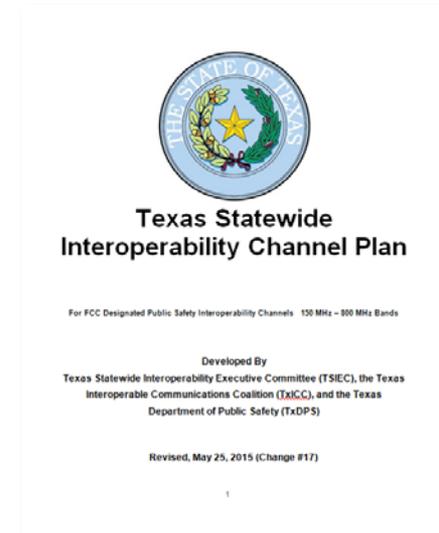




Texas Communications Field Operations Guide (TxCFOG): To create a pocket guide specifically for Texas in line with the national-level National Interoperability Field Operations Guide (NIFOG)

TSICP: To provide permissions and guidelines for the use of interoperability or mutual-aid radio channels

Next Steps: TSICP SAG to reconvene and make updates to TSICP



Regional Standard Operating Procedures Template:

Updated RSOP template available for any organization needing this resource

Next steps: Request each region to review current SOPs and update them using the new template.



SCIP UPDATE REVIEW



PANEL 1: UPDATING YOUR RICP AND RSOP

RJ THOMAS
CHIEF
INGLESIDE FIRE DEPARTMENT

RANDY ASHLEY
COMMUNICATIONS MANAGER, ASSISTANT EMC
CITY OF MCALLEN



- What helps
 - Open quarterly meetings scheduled with ECAC Additional meetings as needed
 - Staff develops initial drafts of documents for Sub- Committees
 - Region boundaries match and are relatively stable
 - Operational testing
- Coastal Bend SOP
 - Typically one page or less is what we like
 - SOP covers how you would notify and utilize different agency systems in the region

Coastal Bend

- Coastal Bend FOG
 - Used more than SOPs
 - Small enough to Email
 - Printable or can be loaded onto MDT
- Coastal Bend RICP
 - Needs updating
 - Found in regional communication vehicles
 - Consolidate list with SOP

Coastal Bend

- Review Biennially
- Manageable committee size (5-10)
- Communication knowledge
- Include EM
- Training – Academies
- Missed Target Audiences
- Missed Target Content
- Exercises (Funding & Time deficit)

RICP - LRGVDC

PANEL 2: TRAINING



Texas

Communications Unit (COMU)

Program

Texas COMU Strengths

- First State to offer a State sponsored COMMEX
 - OEC is providing one observation/support person
- Texas has developed a State Certification process for COML, COMT, RADO and Trainers
 - TtT State Certification requires an observed Student Teaching element
- Texas has 4 certified AUXCOMM instructors
- Texas has the first 7 RADO trained personnel in the nation
- Texas plans to also certify RADO instructors

Texas COMU Training

- Training courses offered since 2009

Course	Offered
COML	38
COML TtT	3
COMT	12
COMT TtT	3
COMMEX	4
COMMEX TtT	1
AUXCOMM - OEC	2
AUXCOMM - State	3
RADO* (OEC Pilot)	2

Texas COMU Effectiveness

- Texas has trained approximately 800 personnel in one or more COMU courses
 - 10% continue on to State Certification

Course	# Personnel
COML	517
COMT	162
AUXCOMM - OEC	52
AUXCOMM - State	81
RADO	57
COML TtT	20
COMT TtT	12

Texas COMU Effectiveness

- Texas DPS has 7 Mobile Communications Platforms and 16 other support units
- Texas DPS has an emergency response team comprised of 42 members. Team includes Managers, Supervisors, Operators and Radio Technicians.
- Texas DPS Mobile Communications Response team provides equipment, IT and maintenance support
- There are 16 local and State agencies participating in our Satellite Downlink program with a total of 46 platforms that deploy as directed from the State Operations Center

Texas DPS COMU Exercises/Events

- Exercises, Events and Deployments supported since 2011

Exercises	Events	Deployments
30	90	21

- Texas is sponsoring 2 Regional Communications Exercises in 2016

Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas Regional Comm. Exercise - Abilene



Texas COMU Challenges

- Funding for Training and Exercises are decreasing
- Developing a recertification plan for State Certified COMU personnel
 - Participate in one large scale event per year
 - Need to develop COML/COMT online update course (OEC?)



Basic Training: Radio Usage and Interoperability

Proper radio usage is often essential to successful operations in public safety ...and yet often is the subject with the least amount of training devoted to it.

Where to Find the Training Resources

- <http://www.publicsafetytools.info/>
- Click on the “Public Safety Library” box
- In the Library, search for “Texas” and all of the Texas resources will appear – including the three Training documents

Subjects Covered

- **Governance and Requirements**
- **Your Radios Operation and Features**
 - Controls
 - Channel Access
 - Groups/Zones Access
- **Radio Applications**
 - Operable
 - Interoperable
 - Creating Networks
 - Radio versus Cellular Phone
- **Practical Uses**
- **Companion Documents**
 - ICS 205, Note cards, etc.
- **Exercises / Evaluations**

**This course is TCOLE
Approved**

Governance and Requirements Affecting Radio Communications and Interoperability

Federal

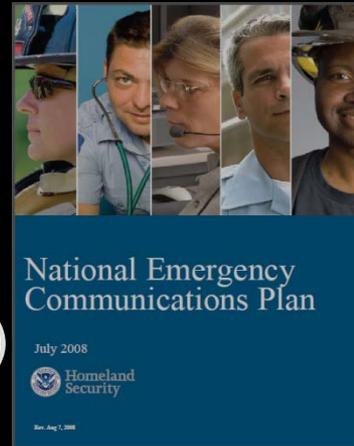
- Federal Communications Commission (FCC)
- National Incident Management System (NIMS)
- National Emergency Communications Plan (NECP)

State

- State of Texas Emergency Management Plan and Annexes
- Texas Statewide Communications Interoperability Plan (T-SCIP)
- Texas Statewide Interoperability Channel Plan (TSICP)

Local/Regional

- Local Emergency Management Plan and Annexes
- Regional Interoperable Communications Plan (RICP)



Portable Radio Operation

**Go through your agency's radio programming and menu options.
Include a diagram or picture.**

Below are some options:

- Power on/off
- Volume
- Push to Talk
- Change channels
- Change zones* *Essential for interoperability
- Scan on/off and priority scan
- Create and edit scan list
- Edit Dynamic zones
- Emergency function
- Indicator lights and their meaning
- Icons on the display
- Monitor
- Squelch
- Encryption options
- Profile



Create a slide of your agency's radios and features

Sample Exercise Area



**“Assigned” /
Evaluation Area**

**A large parking lot is really all
the space that is needed for the
evaluation of radio familiarity
and interoperability channel
access.**

Entrance

Check-in

Exit

N Jeffer

SEC Vote

- ✓ **Updated SCIP**



QUESTIONS?



Contacts

- **Todd Early**

Statewide Interoperability Coordinator
Texas Single Point of Contact to FirstNet
Todd.Early@dps.texas.gov
512-424-2121

- **Karla Jurrens**

Deputy Statewide Interoperability Coordinator
Public Safety Communications Service
Karla.Jurrens@dps.texas.gov
512-424-2104

