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NTCA – The Rural Broadband Association



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General Manager

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San Antonio, Texas

Why FirstNet?



***The First Responder Network Authority
shall hold the single public safety wireless license
and take all actions necessary to***

***ensure the building, deployment, and operation
of the nationwide public safety broadband network***

Guiding Principles



**Fulfill Our
Public Safety
Mandate**

**Be Judicious
with Taxpayer
Funds**

**Build the
FirstNet
Business
Foundation**

Progress Update

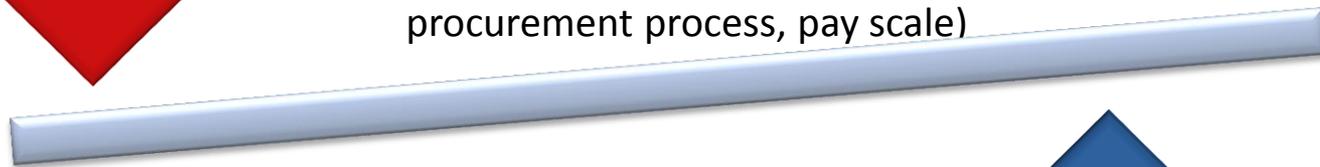
Key 2013 Milestones



No Commercial Parallel To FirstNet



- **Created by law**
- \$2 billion in available funding before a **plan, board or management team** are in place
- **Mandated** Initiatives
- Empowers states to **opt-in or opt-out**
- **Geographic coverage requirements**
- **Public safety economics** coupled with smaller number of users
- Start-up **constrained by government realities**; (e.g., hiring process, procurement process, pay scale)



- **Created by market need**
- Funding dependent on **plan and management experience**
- Time-to- market and **customer driven initiatives**
- **Defined competitive playing field** to gain customers
- **Capacity** and financially viable user coverage
- **Entrepreneurial** spirit, energy and incentive alignment



Our Assets

**\$2B of
current
funding
(2013-2016)**

**\$7B
total
funding
from
future
auctions
(2017-2020)**

**Federal,
state, local,
tribal, public
safety assets

(on-going)**

**Unlock the
value of
excess
capacity

(on-going)**



**NATIONWIDE
PUBLIC
SAFETY
BROADBAND
NETWORK**

Challenges

CHALLENGES: NATIONWIDE COVERAGE

- 3250 Counties
- 566 Tribes
- Rural, Wilderness, Island Coverage
- 60,000 Public Safety Agencies
- 3.8 million square miles

1. Network must cover and connect 100% of U.S. geography and territories
2. The network must be designed to public safety-grade standards
3. FirstNet must build and operate a core

DC Puerto Rico Virgin Islands American Samoa Guam Northern Mariana

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CHALLENGES: Capital and Costs

- Cell Site Capital Investment
- Site Operating Costs
- Hardening Investment
- Limited Number of Public Safety Users
- City, County, State, Federal Financial Constraints

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CHALLENGES: MULTIPLE PARTNERSHIPS

Partnership

VOLUME I - PART 1 TO 51

FEDERAL ACQUISITION REGULATION

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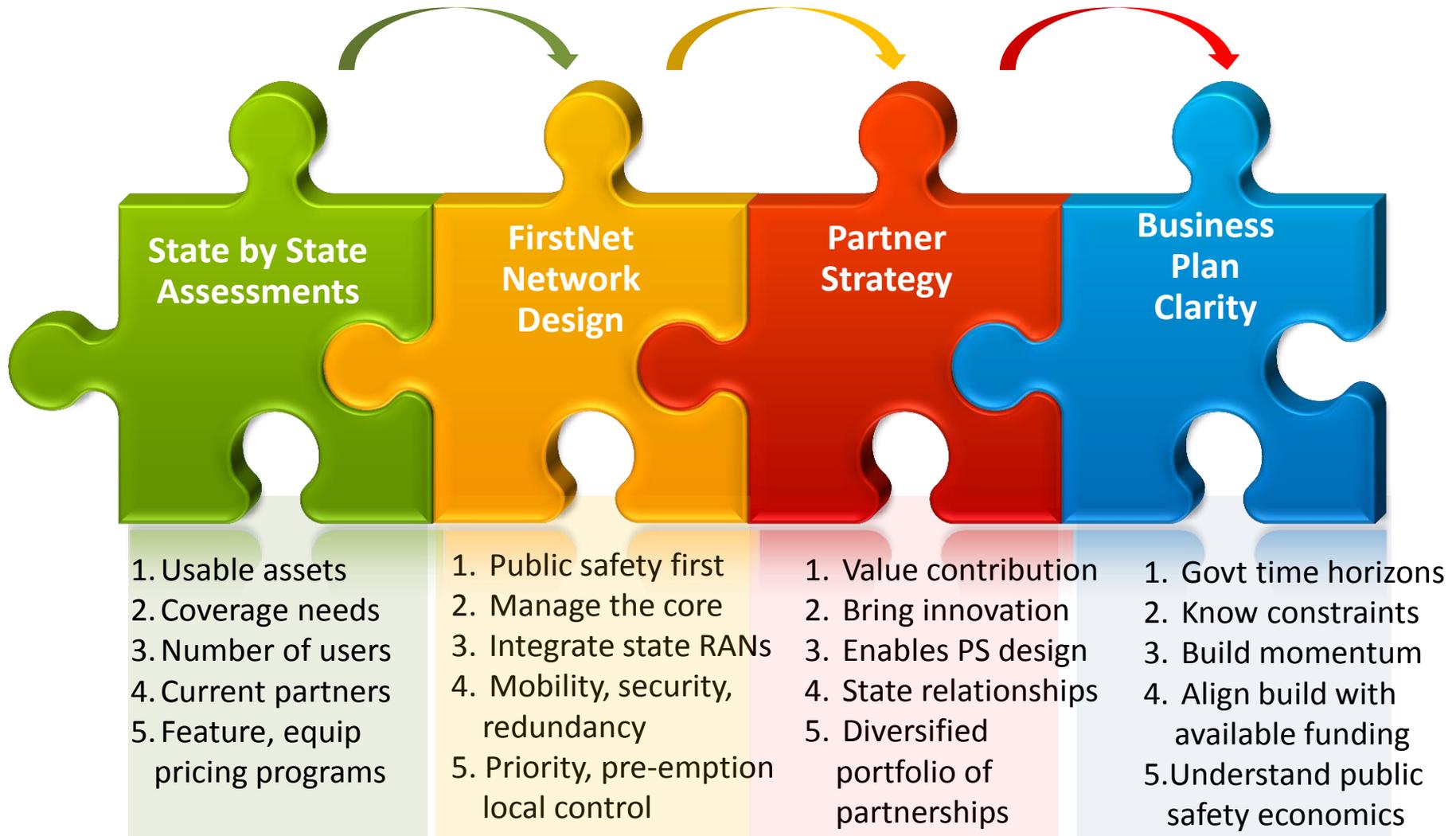
CHALLENGES: 56 TAILORED STATE RAN PLANS

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      1[1) Initial Consultation  
(Aligned with SLIGP Phase 1)] --> 2[2) Asset Identification & Selection  
(Aligned with SLIGP Phase 2)]
      2 --> 3[3) State RAN Design  
(Preliminary / Intermediate / Critical Design  
Joint Reviews)]
      3 --> 4[4) State Operations / Business Plan  
(National Template Customized by State)]
      4 --> 5[5) Final State Plan  
(Presented to Governor)]
  
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Tuesday, December 10, 2013 PSAC Briefing FIRST RESPONDER NETWORK AUTHORITY 4 FirstNet

Business Plan



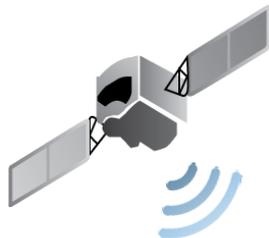
2014 Initiatives and Priorities

On August 13 the FirstNet Board approved a \$194M budget for 2014.



Geographic Coverage Priority

Multiple network coverage solutions operating across 5 distinct geographic categories



Wilderness
27% of U.S. Land Mass

Rural
68% of U.S. Land Mass

Suburban **Urban** **Dense Urban**
5% of U.S. Land Mass

Overview Of Consultation Process



- Consultation is an iterative process, not a single event
- FirstNet will communicate the consultation process and necessary roles and responsibilities
- Consultation will focus on critical information and data
- Plan development will be iterative
- Consultation culminates with the creation of the state plan

Together, stakeholders and FirstNet will have engaged in a process that provides meaningful and thorough information for the state plans

Wide Range Of Stakeholder Consultation

State Consultation (SPOC / SLIGP)

- State
- Local
- Tribal
- Regional
- Rural
- Metropolitan

State Plan

Governor's
Decision

Federal Input (ECPC)

- Federal Responders
- Federal Infrastructure Owners

Industry Input (RFP / Partnering)

- NGOs
- Utilities
- Commercial

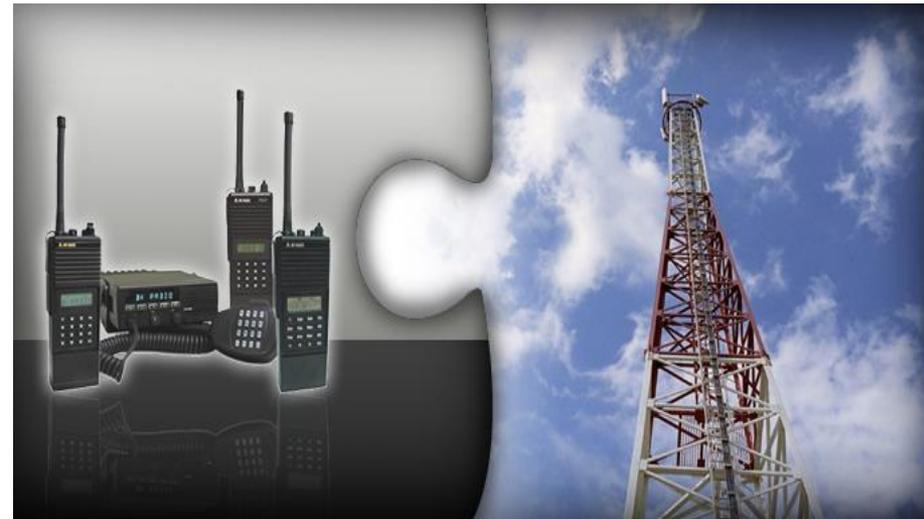
- Users
- Coverage
- Assets

Complementing LMR with LTE

Public safety will rely on land mobile radio (LMR) for mission-critical voice until LTE capabilities exceed current functionality

Elements to be evaluated:

- **Push-to-talk**
- **Direct mode**
- Emergency calling
- Enhanced broadcast
- High-power mobile
- Public safety-grade performance



FirstNet Regional Structure

The FirstNet operational outreach model aligns with 10 FEMA regions.

- 10 Regional Teams to:
 - Work with the state SPOCs
 - Outreach to cities and other localities
 - Current Focus: state consultation
 - Future Focus:
 - Solution sales
 - Support
 - Account management
 - Outreach
 - Education and training

- 2 Nationwide Teams to:
 - Gather input and requirements
 - Serve users



FEDERAL
TEAM

TRIBAL
TEAM

Get Involved...



- Develop deep understanding of how public safety works
- Leverage LTE to deliver cost effective solutions
- Develop rapidly deployable products – small cell technology
- Continue to participate in PSCR demo network
- Meet public safety quality reliability standards
- Bring solutions

Thank You



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