Kentucky FirstNet - SLIGP Project

Kentucky State Police

The KSP Team

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Meeting Agenda

1. Introductions

2. FirstNet / SLIGP Overview

3. Kentucky Project Summary & Timeline

4. Kentucky Project – Next Steps

5. Work Group Questions and Input

Please Silence Cell Phones

FirstNet / SLIGP Overview

Historic Legislation for Public Safety

On February 22, 2012, the President signed into law HR 3630, "The Middle Class Tax Relief and Job Creation Act of 2012," which includes Title VI: "Public Safety Communications and Electromagnetic Spectrum Auctions"

FirstNet

Broad Scope of Title VI --

- Created the First Responder Network Authority (FirstNet) in NTIA to Administer the PS BB Network

- D Block spectrum reallocated to PS

- $7B for design of Nationwide BB Network
  - ➢ Permanent funding to come from network user fees and lease fees

- **$135M for planning and implementation grants**

- $100M + 200M* for NTIA research and development

- $115M for Next Generation 9-1-1 Grants

Title VI Established PSBN Expectations --

- Under the Act, a separate and distinct PSBN would be designed and developed principally for public safety use.

- The PSBN would be a single interoperable network by itself and not a network of networks

- The PSBN would be designed with broad input from public safety agencies at the state, territory, county, municipal, and tribal levels

FirstNet Duties & Responsibilities

- Develop and implement a nationwide system configuration

- Consider state, tribal, and local agencies' needs regarding:
  - ✓ Construction of the network build out, placement of towers and coverage areas,
  - ✓ Assignment of priority to system users,
  - ✓ Training needs of local users

- Issue system construction RFP's

- Ensure the ongoing maintenance, operation and improvement of the network

The Network --

The new Public Safety Broadband Network (PSBN) will:

- ✓ Be based on new commercial standards (LTE)

- ✓ It *DOES NOT* replace current MR system anytime soon

- ✓ Include national & regional data centers (Cores)

- ✓ Include a Radio Access Network (RAN) and backhaul

- ✓ Be constructed, managed, maintained and operated taking into account the plans developed in the State, local, and tribal planning and implementation grant program

- ✓ Leverage existing commercial wireless infrastructure

- ✓ Be integrated with PSAP's

SLIGP Assessment --

The Baker/RCC Team will work with KSP and the first responder stakeholder community to ensure SLIGP project results meet the Commonwealth's public safety needs:

- ✓ Make sure SLIGP work will adequately prepare KY for consultation with FirstNet;

- ✓ Provide effective consultation with KSP to explain to the FirstNet Authority the needs of the Commonwealth in relation to the PSBN

- ✓ When FirstNet Authority presents a RAN design, Kentucky must be able to determine whether that design meets their needs

- ✓ If the RAN offered by FirstNet does not meet Kentucky's needs, be prepared to take action to assure the availability of effective public safety broadband capability
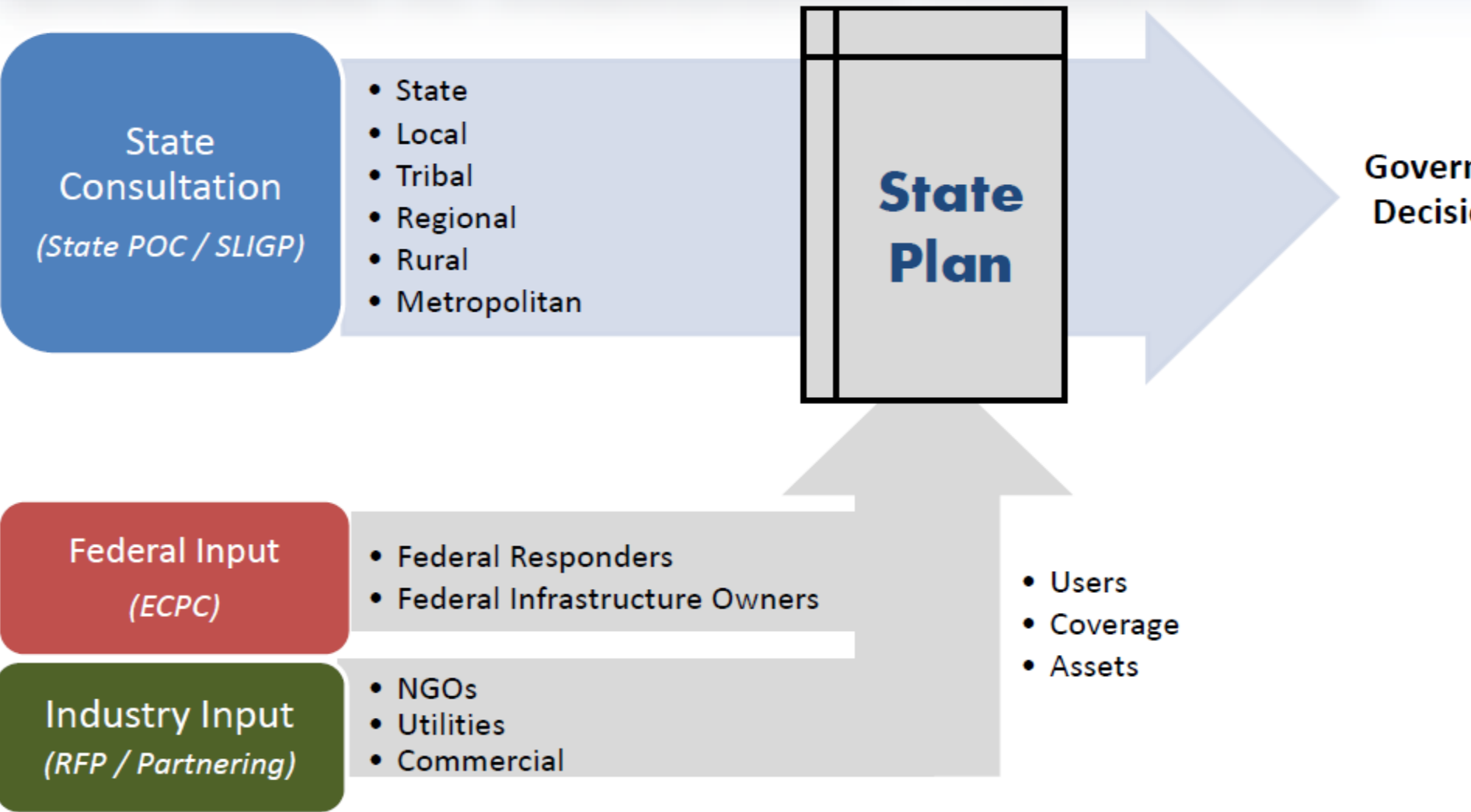
Recommended Process for a Broadband Needs Assessment --

- Thoroughly identify and include First Responder needs and requirements;

- Public Safety stakeholders should participate in the planning, usage and needs identification;

- During the process, consider capacity requirements by incident type, by area, and how it will impact backhaul needs.

WIDE RANGE OF STAKEHOLDER CONSULTATION

State Consultation
(State POC / SLIGP)

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

State Plan

Govern
Decisio

Federal Input
(ECPC)

- Federal Responders
- Federal Infrastructure Owners

Industry Input
(RFP / Partnering)

- NGOs
- Utilities
- Commercial

- Users
- Coverage
- Assets

First

OVERVIEW OF CONSULTATION PROCESS

- **Consultation is an active process, not a single event**. FirstNet will collaborate and partner with stakeholders in a meaningful consultation process.

- **FirstNet will communicate the consultation process and necessary roles and responsibilities**. It will be clear to the stakeholders what the process is and what the expectations are for those involved.

- **Consultation will focus only on critical information and data**. FirstNet will focus on gathering only absolutely necessary data to help build the network.

- **Plan development will be iterative**. Stakeholders and FirstNet will have the opportunity to refine information and improve drafts.

- **Consultation culminates with the creation of the State Plan**. State Plans will be created with the information gathered during the consultation process.

Together, Stakeholders and FirstNet will have engaged in a process that provides meaningful and thorough information for the State Plans.

SLIGP -- Needs Assessment
& LTE Traffic Definition

- List of applications by department

- Identify usage patterns by department geographically throughout the Commonwealth

- List of incident types
  - Number/mix of resources by incident type
  - Application usage patterns by resource during an event
  - Map incident types and frequency on a statewide basis.

The SLIGP Decision Process…

- Upon completing an RFP process, the FirstNet Authority will provide KY:

  ➢ Details of it's proposed portion of the FirstNet build out plan, and

  ➢ The Kentucky build out funding as determined by NTIA

- States have <u>90 days</u> to determine if the FirstNet offer meets its public safety needs and decide whether to accept the FirstNet offer or to opt-out and develop its own network
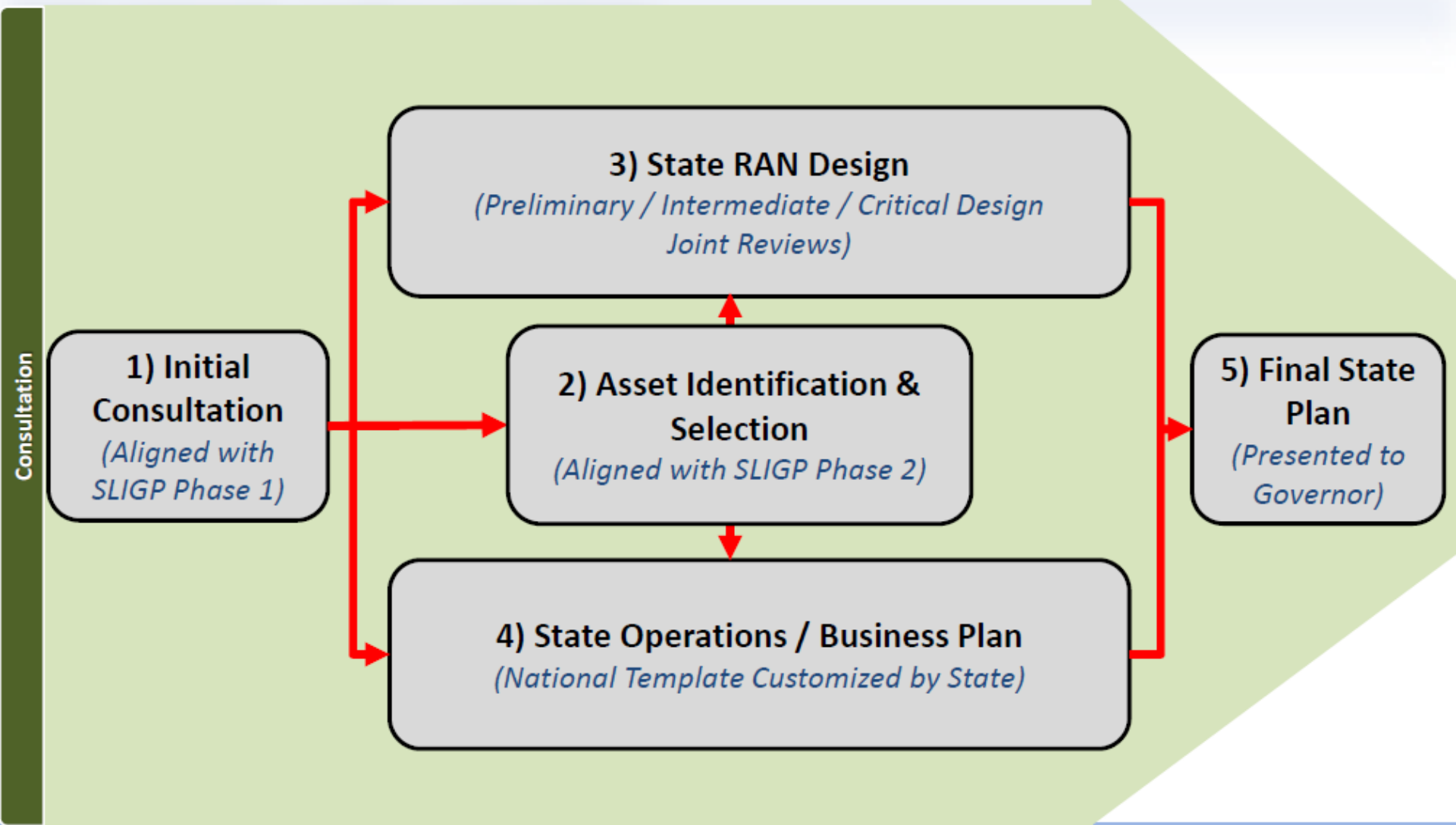
(States can still apply for grant funding and to lease needed spectrum)

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Kentucky Project --
Summary & Timeline

FirstNet

KENTUCKY STATE POLICE

Timeline --

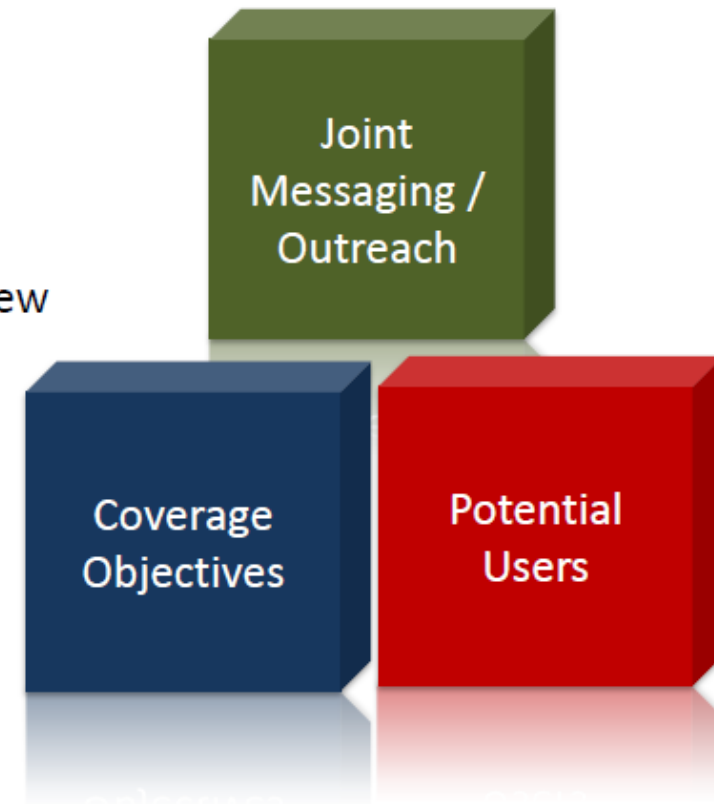| ID	Task Name	Duration	Start	Finish	Oct	Dec
1	Task 1: Mobilization	30 days	Mon 1/6/14	Mon 2/17/14		
6	Task 2: PSBN Strategy and Methodology	23 days	Wed 1/15/14	Fri 2/14/14		
17	Task 3: Stakeholder Entity List, ID Potential Users	280 days	Mon 1/6/14	Fri 1/30/15		
27	Task 4: Governance Structure	19 days	Tue 2/4/14	Fri 2/28/14		
34	Task 5: Evaluate/Update Exisitng PSBN-SLIGP Doc	15 days	Mon 2/17/14	Fri 3/7/14		
42	Task 6: Outreach and Education	420 days?	Mon 2/17/14	Fri 9/25/15		
56	Task 7: SCIP Update	270 days	Mon 9/22/14	Fri 10/2/15		
63	Task 8: Develop Standard Legal Documents	70 days	Mon 2/2/15	Fri 5/8/15		
72	Task 9: Stakeholder Entity Requirements Gathering	140 days	Mon 2/2/15	Mon 8/17/15		
82	Task 10: Discovery and Data Collection	99 days	Mon 8/17/15	Thu 12/31/15		
90	Task 11: State and Constituent PSA Business Plans	21 days	Fri 1/1/16	Fri 1/29/16		
94	Task 12: FirstNet Negotiation Consultation	87 days	Mon 2/1/16	Tue 5/31/16		

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DEFINING THE PROCESS

1 - INITIAL CONSULTATION *(Aligned with SLIGP Phase 1)*

Key Steps

- Define consultation process & roles / responsibilities

- Discuss Baseline State Analysis (BSA) with each State / Territory

- States validate / improve BSA coverage objectives and detailed user information

- Upon completion by State, hold on-site meeting to review state analysis and discuss joint education / outreach

Guiding Principle

- Coverage objectives and user information is critical to support the State RAN design efforts

- All States may begin process concurrently

- Ask States to validate & enhance rather than recreate

- Address plan for joint messaging / outreach process and materials to stakeholders at all levels

Joint Messaging / Outreach

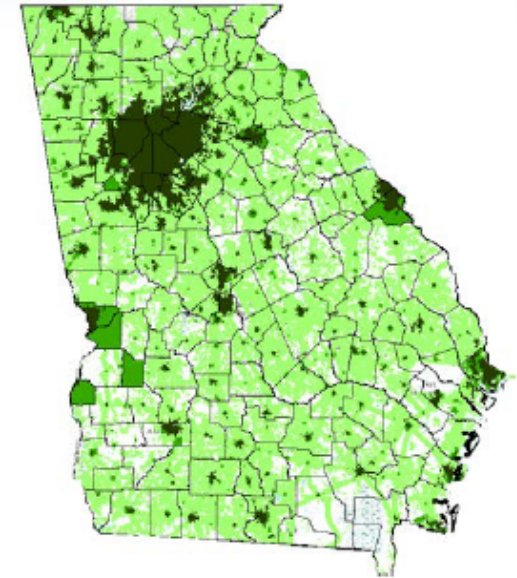Coverage Objectives

Potential Users

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IDENTIFYING POTENTIAL USERS

- FirstNet will provide User baseline data (as available) for primary responders in each State to include:
    - Number of agencies by discipline
    - Number of personnel by discipline
    - Detailed agency user database

- FirstNet will also provide potential categories of secondary responders for consideration by the State with guidance provided from PSAC

- States will provide updated data on primary responders and estimated user counts for secondary responder groups whom they believe should be eligible users on the network

- Parallel effort will occur with Federal agencies through Federal Outreach via ECPC

- Voluntary OEC workshops will provide this baseline data as part of the delivery.

- Data will be used to support subsequent data collection during SLIGP phase 2, as well as inform capacity planning

DEFINING COVERAGE OBJECTIVES

- FirstNet will provide a GIS map showing proposed coverage objectives in four major categories:
  - In Building
  - Handheld / Partial In-Building
  - Vehicular Modem / Partial Handheld
  - Satellite / Deployable

- States will provide updated coverage objectives through an updated GIS file

- States will be encouraged to gather input from all, local , state, and tribal agencies

- Voluntary OEC Coverage Workshops can help states get an early start and better understand this process

- Coverage objectives will be used to focus subsequent SLIGP Phase 2 data collection

- Parallel effort will occur with Federal agencies through federal outreach via ECPC

Coverage Baseline Example

- ■ In-Building
- ■ Handheld/Partial In-Building
- ■ Vehicular Modem/ Partial handheld
- □ Satellite/Deployable

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GEOGRAPHIC COVERAGE PRIORITY

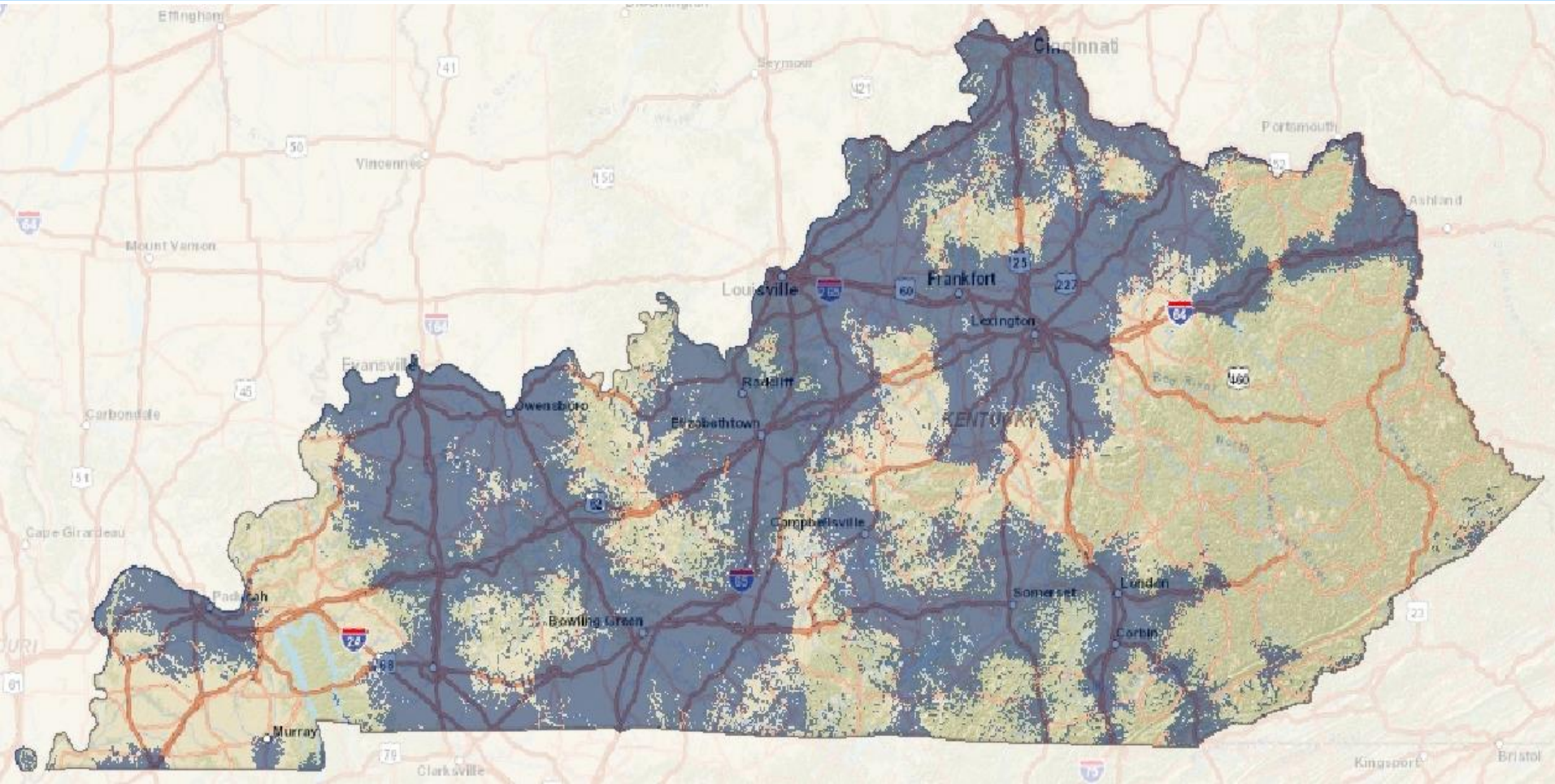Multiple network coverage solutions operating across 5 distinct geographic categories

| Wilderness 27% of U.S. Land Mass | Rural 68% of U.S. Land Mass | Suburban | Urban | Dense Urban 5% of U.S. Land Mass |

Commercial LTE Coverage --
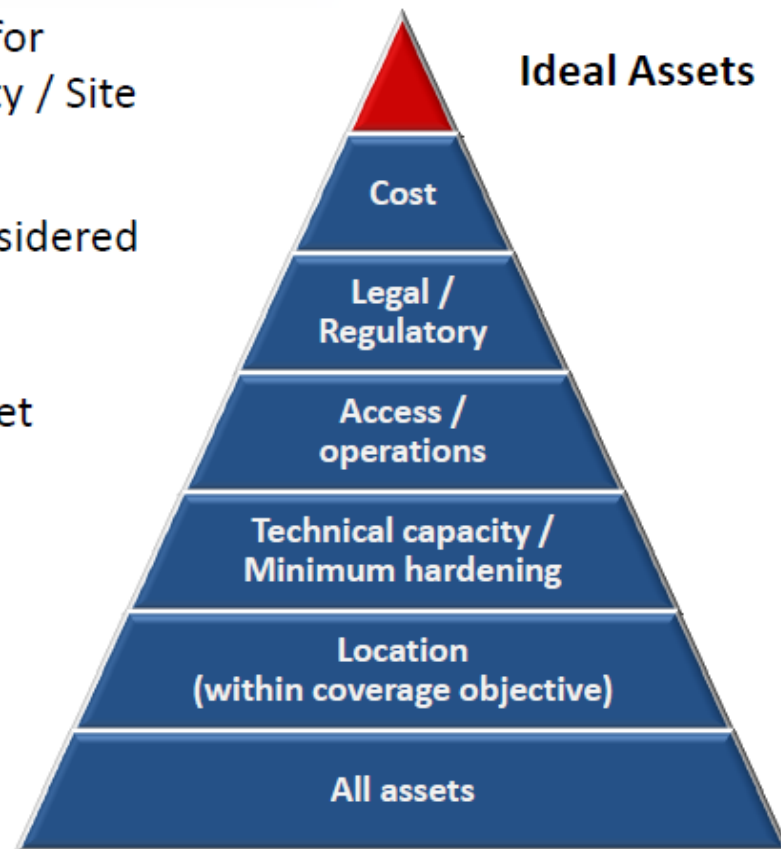
2 - ASSET IDENTIFICATION & SELECTION
(Aligned with SLIGP Phase 2)

Key Steps

- Define minimum recommended attributes of assets for consideration (Coverage objective / Technical capacity / Site access / Operations / Low cost)

- Request data collection on available assets to be considered

- Assess all assets (commercial & public)

- Select assets based solely on best value to the FirstNet network

Guiding Principle

- Limit data collection to viable assets to save the State time/effort

- Leverage assets to provide better coverage at a lower cost
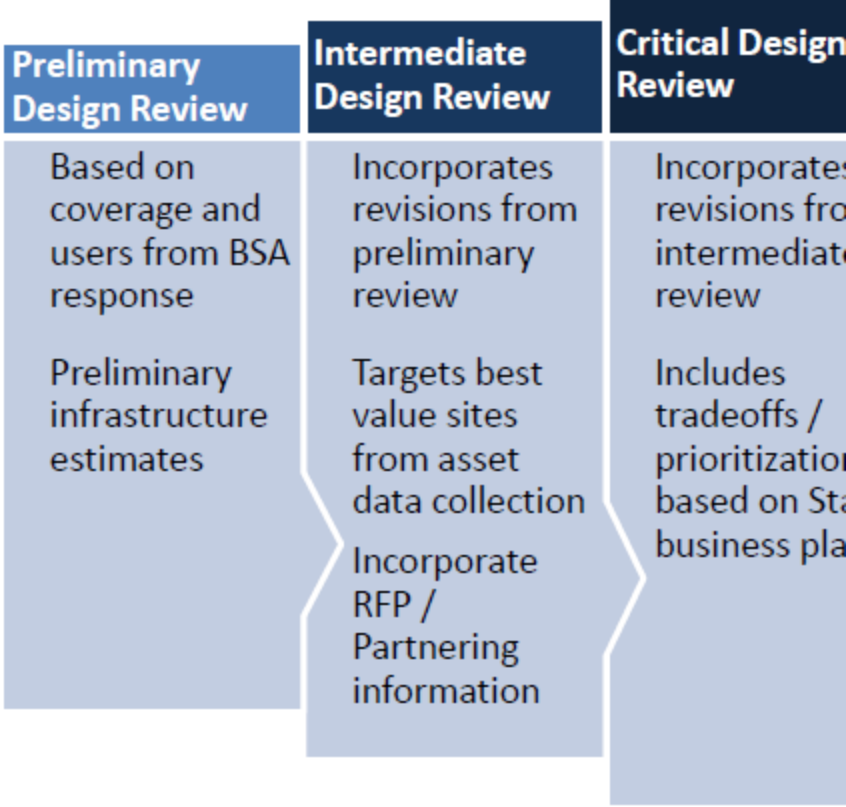
- Leverage assets to deploy quicker

Ideal Assets

Pyramid (top to bottom):
- Cost
- Legal / Regulatory
- Access / operations
- Technical capacity / Minimum hardening
- Location (within coverage objective)
- All assets

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3 - STATE RAN DESIGN PROCESS

Key Steps

- Multi-phase (preliminary / intermediate / critical design reviews) review with State to refine design based on identified priorities

- Incorporate feedback and additional data as it is collected (SLIGP Phase 2 / RFP Process)

Guiding Principle

- Ensures on-going review / refinement process with State

- Jointly develop tradeoffs and priorities

Preliminary Design Review	Intermediate Design Review	Critical Design Review
Based on coverage and users from BSA response	Incorporates revisions from preliminary review	Incorporates revisions from intermediate review
Preliminary infrastructure estimates	Targets best value sites from asset data collection	Includes tradeoffs / prioritization based on State business plan
	Incorporate RFP / Partnering information	

4 - STATE OPERATIONS / BUSINESS PLAN

Key Steps

- Leverage PSAC and others to discuss overall approach to:
    - Local control
    - Prioritization
    - Training
    - Security

- Develop operations template with areas for input/customization

- Develop system cost structure / business plan for State based on preliminary RAN design and potential user base

- Customize based on public safety stakeholder input

Guiding Principle

- Addresses areas of consultation required by law

- Ensure State RAN design is informed by impact to business | cost considerations

5 - FINAL STATE PLAN REVIEW

Key Steps

- Combine State RAN Design with Operations / Business Plan

- Projected funding level

- Provide final review opportunity by State POC / Governing Body

- Submit to the Governor

Guiding Principle

- Addresses areas of consultation required by law

- Ensures Public Safety stakeholders have had robust involvement before State Plan is presented

State Plan Requirements

- Completion of the RFP process

- Details of proposed build-out in the State

- Funding level for the State

Kentucky Project - *Next Steps*

SLIGP Phase I --

- ✓ Mobilize and Develop a Project Plan
- ✓ Develop the Commonwealth PSBN Strategy
- ✓ Stakeholder Entity List; Identify Potential Users
- ✓ Review Current Information on Governance Structure
- ✓ Preparations for Outreach and Education In Commonwealth
- ✓ Conduct Spring and Fall Outreach & Education Sessions 2014
- ✓ SCIP Review and Update

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OFFICE: 502-607-3261
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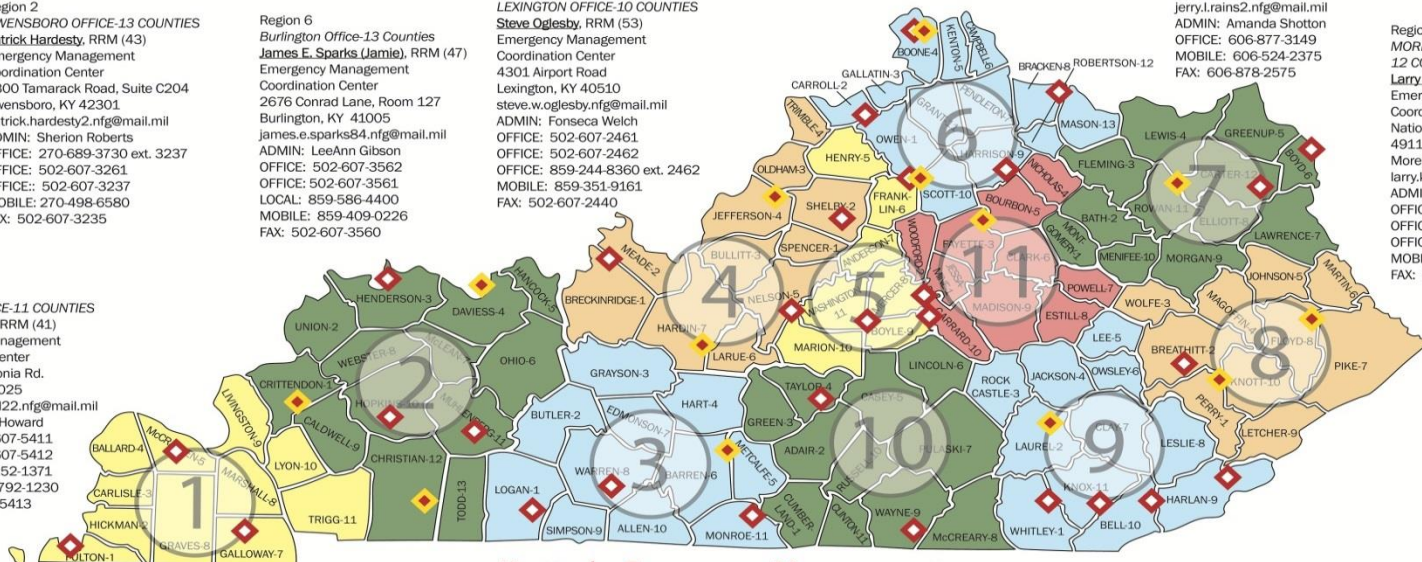MOBILE: 270-498-6580
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Kentucky Emergency Management Response and Administrative Regions

Kentucky
UNBRIDLED SPIRIT™

Map Key
Emergency Management Office
National Guard Armories

Region 3
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Questions and Input