



# FirstNet™



## FirstNet Data Collection Elements

March 23, 2015

# Today's Objectives



- Review the decisions we have made to move forward on FirstNet's identified data collection elements needed to inform both our acquisition process and State Plan development
  - Summarize feedback received from stakeholders regarding the draft data collection package
- Highlight some of the key information on data collection dates and upcoming steps

# Data Collection Categories

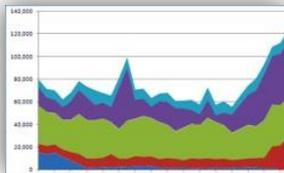


## Coverage Objectives



- Coverage
- Phased Deployment

- Applications
- Data Usage



## Capacity



State /  
Territory

## Users and Operations



- Public Safety Entity Info
- Devices
- Operational Areas

- Procurement Vehicles
- Service Plans / Costs
- Barriers



## Current Service

- Comments received from: CA, DE, MD, MN, MT, PA, TX, WV
- General Feedback (8)
  - *Commented that July 31<sup>st</sup> timeline is too aggressive (5)*
  - *Recommended some form of asset collection (3)*
  - *Recommended a “slick sheet” for SPOCs to use (1)*
  - *Recommended two different surveys, one for any agency and the other for end users (1)*
- Coverage (7)
  - *Recommended coverage objectives based on performance i.e. in-building, handheld, vehicular (5)*
  - *Commented that phased deployment must take into account rural milestones. Both “rural” and “milestones” must be defined (3)*
  - *Commented that the concentration areas appear to relate to capacity more than coverage (2)*

# Examples of Feedback (con't)

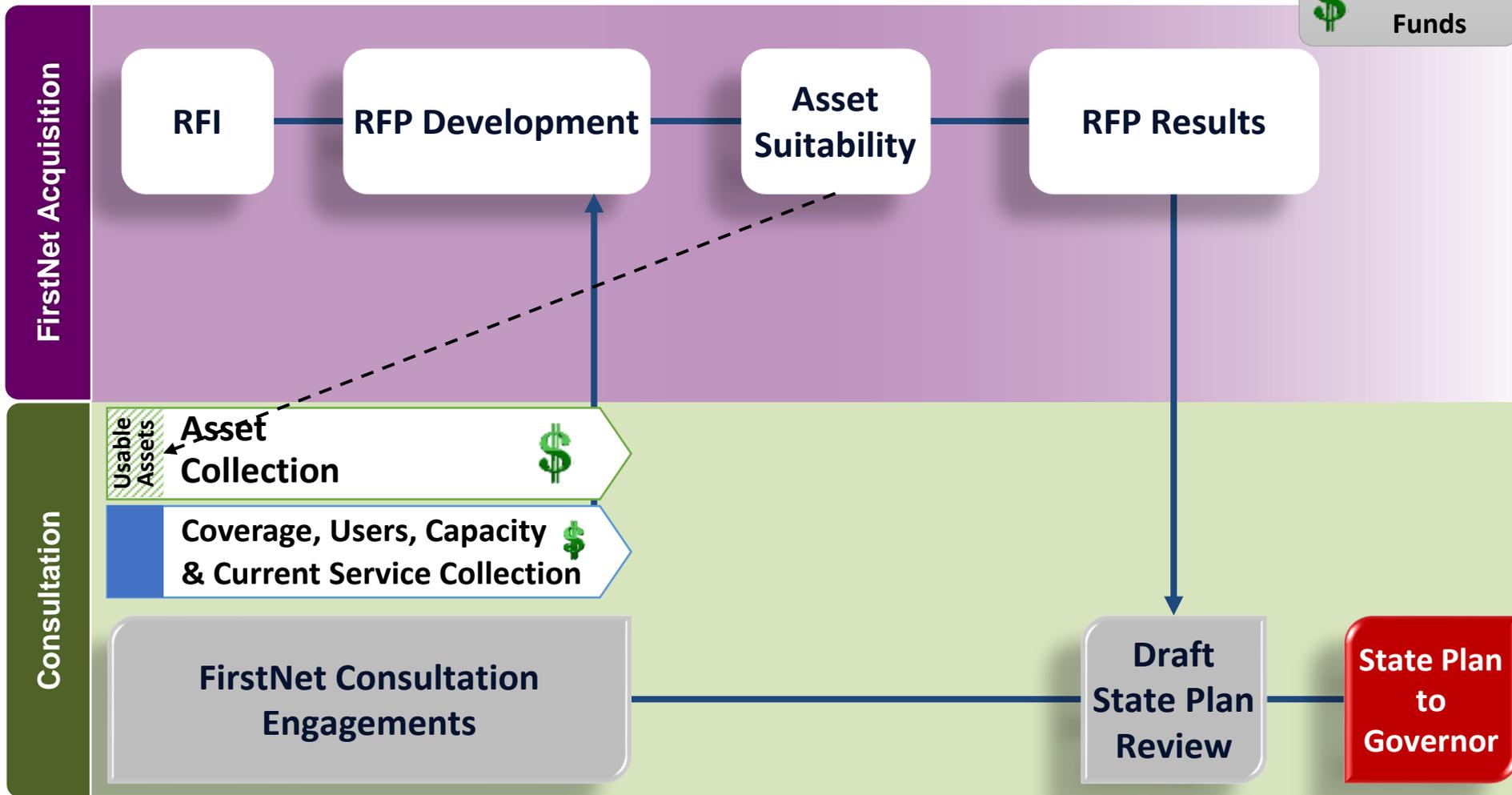


- Users and their Operational Areas (7)
  - *Expressed confusion with FirstNet's use of "potential" users (verbal feedback)*
  - *Had questions on eligible users (2)*
  - *Had questions on how this information would also be used for capacity determinations (2)*
- Capacity (6)
  - *Had questions about how this data would be used (3)*
  - *Requested-specific examples and further guidance (2)*
- Current Service Info / Procurement (3)
  - *Recommended expanding the survey to gather information on performance of current service (2)*
- State Plan Decision Process (0)
- Process, Data Formats, Submission, etc. (6)
  - *Had questions on how state submitted data will be aggregated and used (4)*
  - *Recommended standardized tools (1)*

# The Change in Data Collection



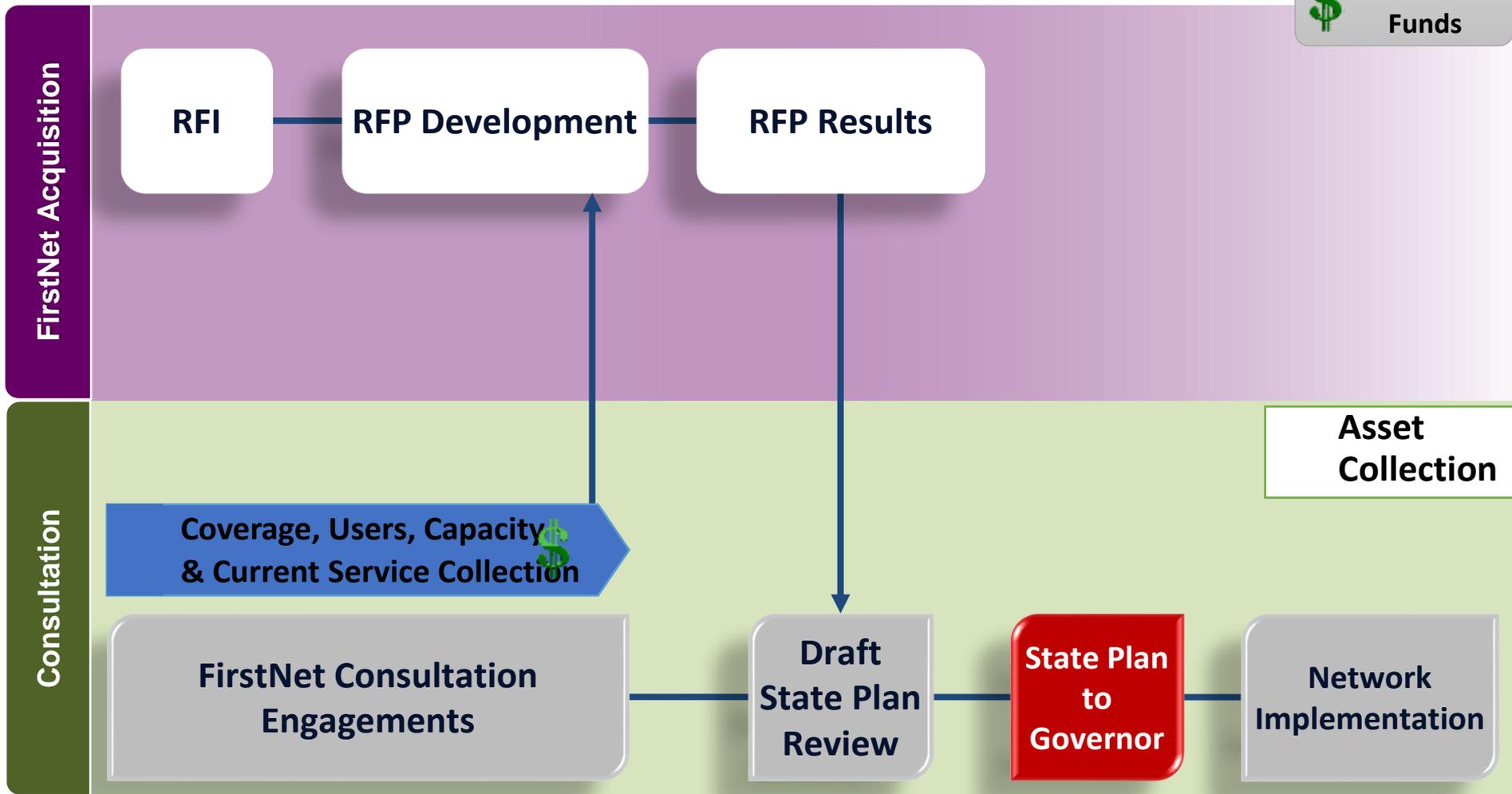
 SLIGP Ph. 2  
Funds



# The Change in Data Collection



 SLIGP Ph. 2 Funds



# State Consultation Partnership



## Elements of State Consultation

### Outreach and Education

- Webinars
- Meetings
- Surveys
- Training



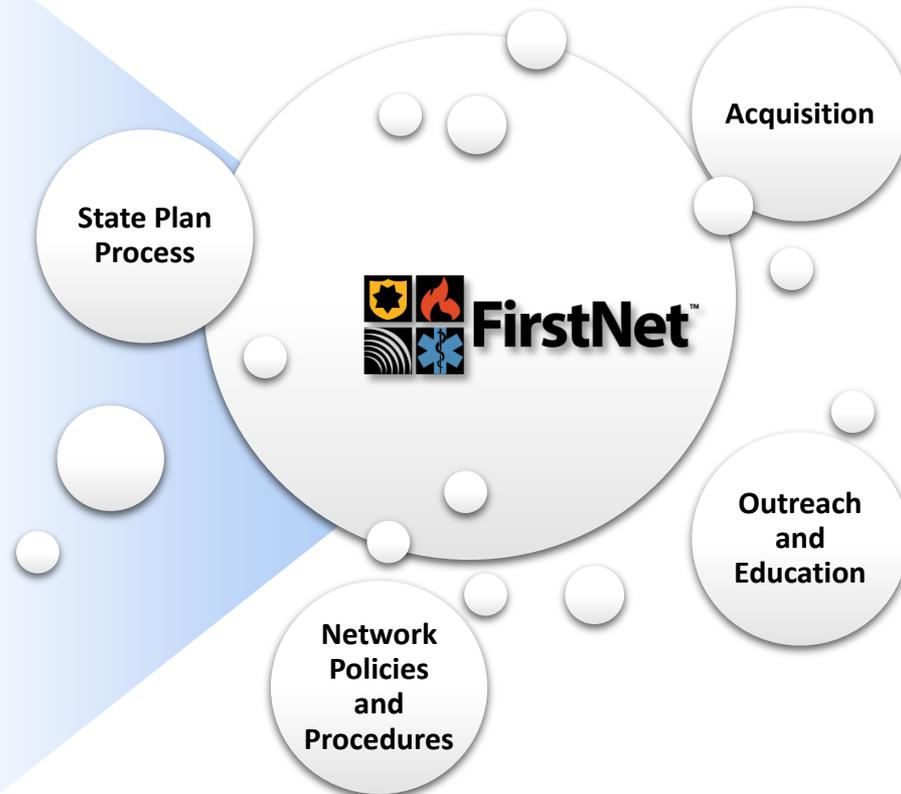
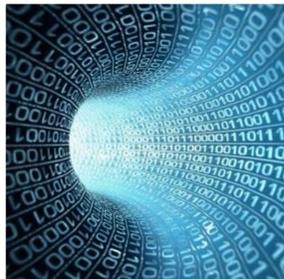
### Review and Inform

- Stakeholder Needs
- Technology and Economic Topics
- Legal Topics
- Network Policies and Procedures



### Collect Data

- Coverage Objectives
- User and Operational Areas
- Capacity Planning
- Current Service/ Procurement



# Stakeholder Inputs Critical to Inform FirstNet Planning



## Coverage

### Where?

- Where Needed (Objectives)
- Different Device Types
- Throughput levels

## Capacity

### How Much?

- # of Users and Devices
- Application Usage
- Data Consumption

### FirstNet Financial Team

- RFP Development/Evaluation
- Economic Modeling



### FirstNet Engineering Team

- RFP Development/Evaluation
- Core, RAN and Devices

# Data Collection Elements Summary



Data Categories		Description	Survey	Other Method
<b>1. Coverage</b>		<b>Identify desired coverage and proposed deployment phases within the State/Territory</b>		
<b>1a.</b>	Coverage Objectives	Identify State/Territory coverage by developing a baseline or providing feedback and changes to the FirstNet baseline		X
<b>1b.</b>	Phased Deployment Approach	Provide recommendations on targeted areas or objectives for each deployment phase (suggest a minimum of 5 phases)		X
<b>2. Users and their Operational Areas</b>		<b>Gather information on the eligible user base and their respective operational areas</b>		
<b>2a.</b>	Public Safety Entity ("PSE") <sup>1</sup> Info, Personnel Counts	Basic PSE demographics: entity name, discipline, location, POC, total personnel. Please provide the same information for those entities that qualifying PSEs wish to designate as PSEs within the State/Territory (including Tribal lands) under the terms of the Act <sup>2</sup> .	X	
<b>2b.</b>	Devices - Counts and Types	Number and type of agency issued voice/data wireless devices used by PSE personnel, estimates of usage growth and use of personally owned devices	X	
<b>2c.</b>	Users and Devices Summary	Estimate the total eligible user base within the State/Territory (including Tribal lands). Use the device/user ratio from surveyed data to estimate the total number of currently deployed devices.		X
<b>2d.</b>	Operational Areas	Provide geographic areas of responsibility as well as common response areas for each PSE (as available)		X
<b>2d-i.</b>	i. User maps based on jurisdiction	Baseline maps of user counts distributed across their respective areas of responsibilities		X
<b>2d-ii</b>	ii. Common response areas (Calls for Service data)	As available, provide calls for service response data from eligible PSEs, analyzing and mapping the results to show common and critical response areas		X
<b>3. Capacity Planning</b>		<b>Estimate current application and data usage</b>		
<b>3a.</b>	Application Usage	Data gathering on basic application usage to identify what PSEs are currently using, frequency of use, and projected growth. This information may also be used to estimate network capacity.	X	
<b>3b.</b>	Data Usage (Traffic Profiles)	Targeting a small subset of PSEs representing the different demographics of the State/Territory, capture data and conduct analyses to quantify how much data is used by different PSEs. This sampling of data could be gathered and analyzed, for example, by different size and scope of incident responses or planned events, by discipline types, by urban vs. rural, comparing uplink vs. downlink, etc. Supplemental information on planned growth, launch of new applications, limitations of current usage, etc. are all important to note while developing representative traffic profiles.		X
<b>4. Current Providers / Procurement</b>		<b>Information on current service provider's plans, procurement vehicles, and barriers to adoption</b>		
<b>4a.</b>	Procurement vehicles / restrictions	Provide how mobile services are procured today, contract duration, and what restrictions may exist with leveraging different procurement options	X	
<b>4a.</b>	Plan types / costs	Identify different plan types, periodicity, and their associated costs	X	
<b>4a.</b>	Any specialized services provided?	Provide additional services supplied (e.g., network/system interfaces, SLAs, unique APNs, separate VLANs, COLTs/COWs)	X	
<b>4b.</b>	Barriers	Identify current barriers that have limited or prevented fully operationalizing mobile data	X	
<b>5. State Plan Decision</b>		<b>Document the process and potential barriers for State Plan decision-making</b>		
<b>5a.</b>	Document State Plan Review Process	Document the State Plan review decision-making process, associated timelines, responsibilities, and windows of availability for delivering a state plan for proper FirstNet planning when scheduling the delivery of the final state plan to the Governor.		X

# Different Methods of Collection



Data Categories	Description	Survey	Other
<b>1. Coverage</b>	<b>Identify desired coverage and proposed deployment phases within the State/Territory</b>		
1a	Coverage Objectives	X	
1b	Phased Deployment Approach	X	
<b>2. Users and their Operational Areas</b>	<b>Gather information on the eligible user base and their respective operational areas</b>		
2a	Public Safety Entity ("PSE") Info, Personnel Counts	X	
2b	Devices - Counts and Types	X	
2c	Users and Devices Summary	X	
2d	Operational Areas	X	
2e	Other Maps based on jurisdiction	X	
2f	Common response areas (Calls for Service data)	X	
<b>3. Capacity Planning</b>	<b>Estimate current application and data usage</b>		
3a	Application Usage	X	
3b	Data Usage (Traffic Profiles)	X	
<b>4. Current Provider / Procurement</b>	<b>Information on current service provider's plan, procurement vehicles, and barriers to adoption</b>		
4a	Procurement vehicles / restrictions	X	
4b	Plan types / costs	X	
4c	Any specialized services provided?	X	
4d	Barriers	X	
<b>5. State Plan Decision</b>	<b>Document the process and potential barriers for State Plan Decision-making</b>		
5a	Document State Plan Review Process		X

Survey

Other Method

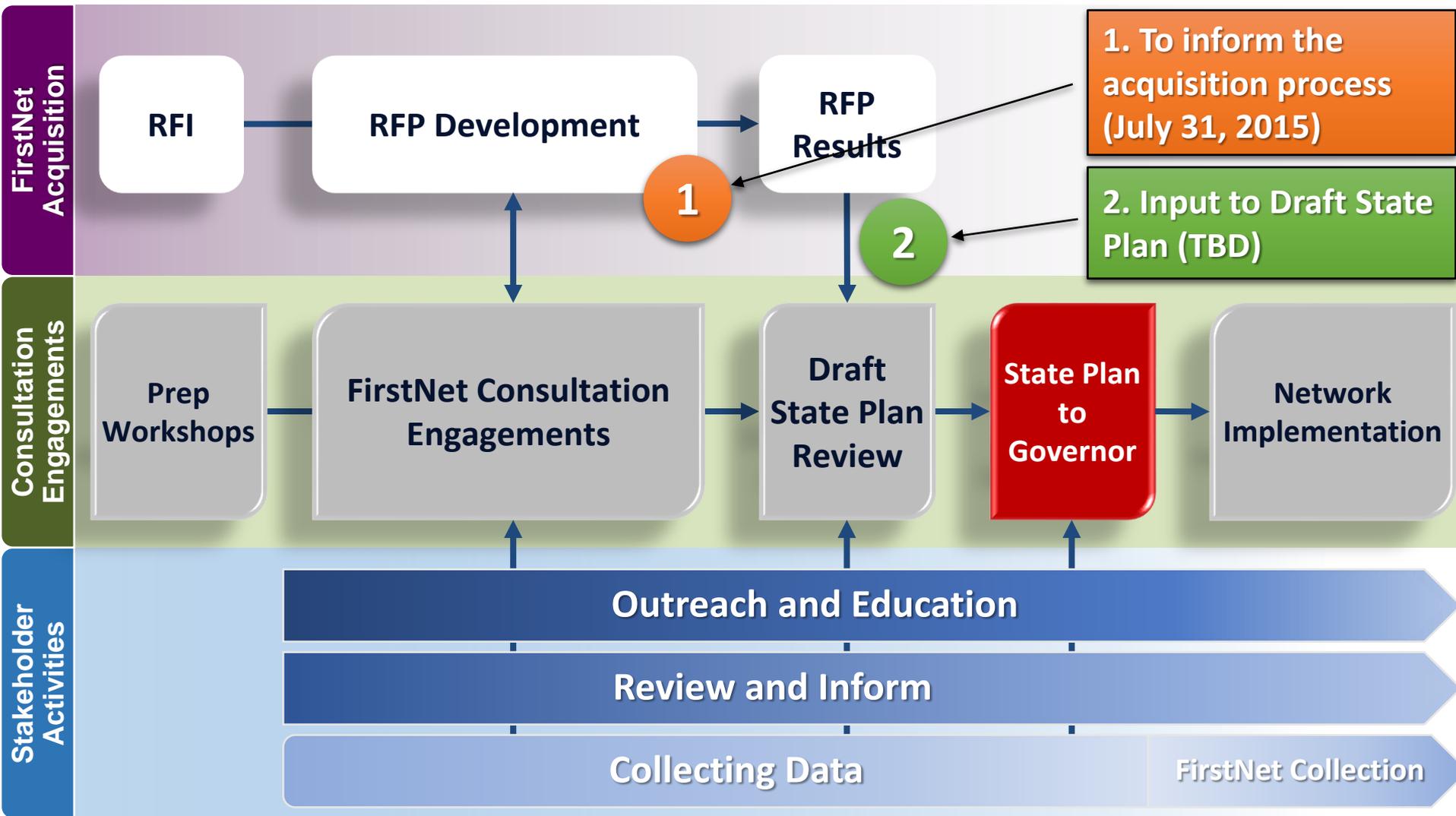
## Sample Questions & Excel Template

- 2a: Public Safety Entity Demographics
- 2b: Device Counts/Types
- 3a: Application Usage
- 4a, 4b: Info on Current Service / Procurement

## Customized Process and Deliverables (Maps, Word/PPT/PDF)

- 1a: Coverage Objectives (map) and annotations
- 1b: Phase Build Out Approach (Word/PPT)
- 2c: Users and Devices Summary (Excel)
- 2d: Operational Areas (map)
- 3b: Data Usage (Word/PPT/PDF)
- 5a: Document State Plan Review Process (Word/PPT/PDF)

# Data Collection Milestones



In the event a State/Territory cannot meet the July 31st deadline for data collection, FirstNet recommends focusing on a subset of data/activities that will have the most impact for the July 31st deadline. That subset of data/activities, in priority order, is below:

**1) User Survey** – Gather a representative sampling of data from current users to provide important information such as current adoption of service and associated device types, device to user ratios, information on current service plans, current and desired application use, and average monthly consumption (GB per month per user)

*Data Collection Spreadsheet Tabs 2a, 2b, 3a, 4a, 4b*

**2) Eligible User Estimate** – estimate the total eligible user base within the state

*Data Collection Spreadsheet Tab 2c*

In the event a State/Territory cannot meet the July 31st deadline for data collection, FirstNet recommends focusing on a subset of data/activities that will have the most impact for the July 31st deadline. That subset of data/activities, in priority order, is below:

**3) Coverage Objectives Data Elements and Methodology** – provide feedback on the methodology and baseline data used to include potential enhancements with readily available, nationwide data. State/Territory unique customization would not necessarily be needed for this phase and will be incorporated into the State Plan development.

*Data Collection Spreadsheet Tab 1a*

**4) Traffic Profile Examples** – Where available, quantify traffic usage for events where commercial networks failed to provide adequate service to public safety users i.e. large sporting events, parades, concerts, etc. Estimate how much data was consumed and how much more could have been consumed with additional capacity.

*Data Collection Spreadsheet Tab 3b*

# Summary of Data Collection



## ❑ **What:** 5 Data Collection Categories

1. Coverage Objectives
2. Users and Operational Areas
3. Capacity Planning
4. Current Service / Procurement
5. State Plan Decision Process\*

## ❑ **When:** Two Main Due Dates

1. July 31 – Inputs to inform acquisition (*prioritize as needed, collection to date, estimates*)
2. TBD – Inputs to Draft State Plan (*more detailed, refined, analyzed data*)
3. \*December 31 – Documenting the State Plan Decision Process

## ❑ **Where:** To be submitted to FirstNet repository

- In work; details to be provided

## ❑ **How:** State/Territory to determine most appropriate approach

- FirstNet Data Collection spreadsheet to be used as a guide
- Various tools can be used to collect desired data
- Consider different strategies for the two deadlines and different data types

Questions, issues, support, etc.  
can be submitted to:

***[datacollection@firstnet.gov](mailto:datacollection@firstnet.gov)***