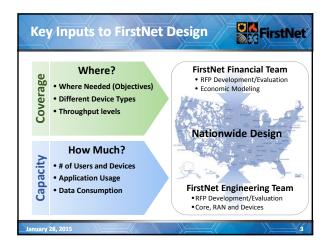
### Users and Coverage Initial Consultation Meeting with the State of Kentucky Wireless Interoperability Wireless Interoperabi

# 1. First Responder Users / Operations | Identify potential user base and their operational areas | Estimate current usage of mobile data today 2. Coverage | Review FirstNet Initial Coverage Objectives | Discuss State Inputs and Approach to Objectives | Discuss Coverage Modeling and Desired Outputs



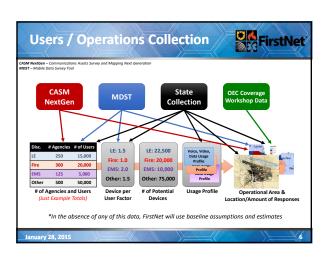
### Guiding Principles for Data Requests



- Critical Data: only gather critically essential data
- When Needed: collect data close to when it will be used to ensure accuracy
- <u>Pre-populate</u>: where possible, FirstNet will collect as much data as possible from available sources for editing and validation
- Specify Deliverables: identify required deliverable formats, not necessarily specific tools and processes
- <u>Be Flexible</u>: allow flexibility given different stakeholders' existing use of tools, processes and resource constraints
- Get Feedback: socialize the process before formalizing
- <u>Advance Notice</u>: identify schedule, process and tools as early as possible for stakeholders to plan accordingly
- <u>Local Knowledge</u>: rely on stakeholder knowledge to help prioritize data collection

January 29, 2011

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# Current Providers / Procurement Capture current service providers Commercial and Private Identify major procurement vehicles / options Identify different service plan types and costs Capture any specialized services Colts/CoWs, network interfaces/customization, etc. Identify current barriers

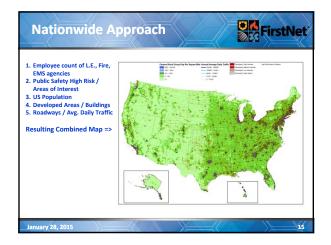
Summai	Y		FirstNe
Data Type	FirstNet Use	Deliverable Format	Possible Resources
# of Agencies and Users	Estimate total number of potential FirstNet users	Excel file (FirstNet template)	Statewide database, CASM Commercial sources, gov't & association census
Device per User Factor	Factor to estimate number of potential devices on the network	Excel Table (FirstNet template)	Statewide survey, MDST
# of Potential Devices	Estimate of potential devices for technical design and economic model inputs	Excel Table (FirstNet template)	Samples from agency surveys, calculate from agency/user counts
Usage Profiles (where available)	Technical design input to estimate how public safety may use the network	Excel Table (FirstNet template)	Commercial tools
Operational Areas	Identifies where public safety needs coverage; capacity input	GIS maps and/or from Agency File	Agency jurisdiction (city, county, state, etc.), State/local GIS offices
Location/Amount of Responses (where available)	More precise inputs to operational area	Excel files (FirstNet template)	Participating agencies
Current Providers / Procurement	Identify current service plans, procurement methods and potential procurement restrictions	Excel Table (FirstNet template)	Statewide survey, MDST

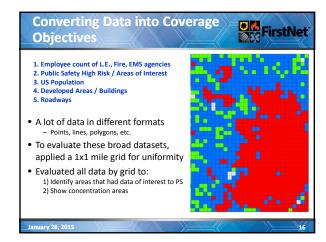
## Coverage Objectives

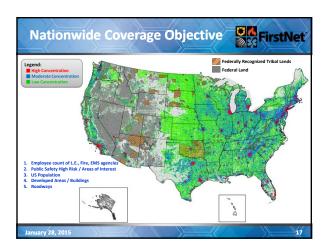
Coverage Objectives vs. Coverage Maps
What is a Coverage Objective?
Targeted areas within a state/territory identifying where FirstNet coverage is projected to be needed
What is a Coverage Map?
A predicted coverage footprint showing where devices can reliably communicate with each other above a minimum data rate
Coverage Objectives are NOT Coverage Maps

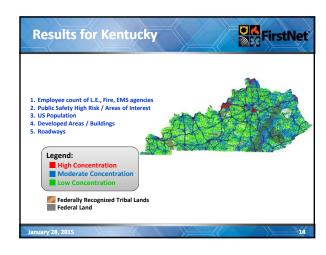
## FirstNet's Coverage Objective Goals GoAl: Come up with a consistent, nationwide starting point to objectively identify Public Safety's coverage desires 1. Set a FirstNet Nationwide Coverage Objective Baseline | Identify initial coverage objectives relevant to Public Safety's desires | Develop a systematic, consistent and objective approach applied nationwide | Leverage feedback from OEC's Coverage Workshops | Generate maps to document the starting point 2. Facilitate coverage discussion for a phased build out | Include additional data to tailor needs for each state | Modify based on stakeholder input and feedback 3. Generate coverage maps based on culmination of acquisition process FirstNet Envisions Continued Discussion and Revisions on Coverage Beyond Delivery of a State Plan

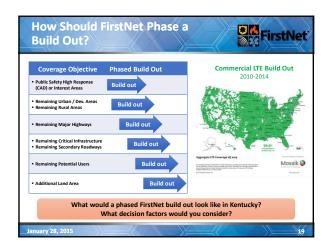


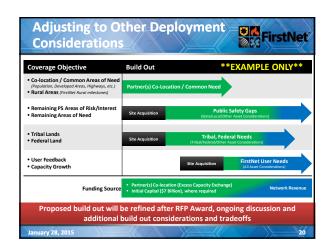






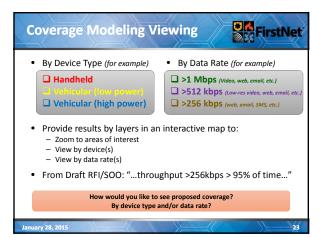








# Coverage Modeling Overview Coverage Objectives will be an input to modeling tools FirstNet has selected a coverage modeling tool Used worldwide for LTE modeling Granular dataset (terrain and land use) 30 meter in rural 10 meter in metro areas 5 meter in dense urban (3D buildings) Multiple propagation models 10 Tuned with drive test data for different regions of country FirstNet intends to discuss coverage parameters and assumptions for our predictions



### Users and Coverage Wrap-up



### **Summary**



- Identifying the potential user base and their current use of mobile data is important
  - Both Engineering and Financial needs
- Identifying coverage needs and a potential phased build out is also important
  - RFP Evaluation and Eventual Build Out
- Coverage will be an ongoing discussion throughout consultation and into network deployment

### **Call to Action... Next Steps**



- Continued Outreach and Education
- Potential Users and Operations
- Estimate current potential user base
  - Identify Operational Areas
  - Estimate current usage of mobile data
- Coverage Objectives
  - Identify coverage objectives
  - Provide a phased build out approach





### **Meeting Evaluation**



We want to hear from you!

- How was the meeting?
- What did you like?
- What can we improve?

Please provide us with your valuable feedback by completing your evaluation.



January 28, 2015



