



Michigan's Next Steps

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Public Safety's Vision

- Provide more reliable capabilities than consumer network
- Deliver service even when network is most likely to be down, congested, or not available
- Handle intricate and dynamic priority management required by Public Safety operations
- Manage and deploy security and resiliency on all levels required to meet First Responder, mission critical needs
- Allow controls by multiple entities such as national, state, regional, local and tribal agencies
- Address needs for coverage beyond commercial footprints





Nationwide

Public Safety Broadband Network

- National Broadband Plan - developed by the FCC as directed by congress in 2009 to ensure every American has access to broadband (<http://www.broadband.gov/download-plan/>)
- The NPSBN is defined as a single, nationwide Public Safety LTE (PS LTE) network and was identified in National Broadband Plan
- LTE is based upon the global 3GPP standard
- FirstNet is the independent authority created by Congress to govern, construct and manage the FirstNet Network
- FirstNet pledges to build the network to meet the needs of Public Safety users based on provided requirements
- FirstNet was allocated 20MHz of spectrum nationwide in the 700MHz band
- Congress allocated \$7B in funding and \$121M for State grant program (SLIGP)
 - Will be a self-sustaining, fee-based network which may leverage tribal, state and local government assets



Overview

FirstNet Network

- The FirstNet Network is the brand name for the NPSBN which will be deployed and operated by FirstNet
- The network will be “Public Safety Grade” so network is available when needed most
- FirstNet will maintain local management and controls including prioritization and access privileges
- Network coverage will be extensive, covering jurisdictional, tribal and rural areas currently under-served by broadband.
- By law, FirstNet must be a self-sustaining fee-based network
 - Potential for public/private partnerships and sharing of State, local and Tribal infrastructure to lower costs



Yesterday, Today, Tomorrow

2008 – 2009 (Then: D-Block)

- 2008 – Failed PS 700 MHz auction, carriers said “no thanks”
- 2009 – PS industry lobbying congress for additional 700 MHz spectrum

2010 – 2014 (Then: FirstNet)

- 2010-11 – (22) FCC Waivers Granted
 - Feb 2012 – Middle Class Tax Relief Act, Congress
 - Sept 2013 – Michigan State and Local Implementation Grant Program (SLIGP) provided funds to the states and territories
- ## 2010 – 2014 (Now: FirstNet)

2015 – 2016

- 2015 – Michigan State Consultation
- 2016 – FirstNet State Proposal & Opt In / Opt Out

2017 – Beyond

- Network build out begins



Applications Envisioned

- Internet Access
 - Mobile VPN
 - Status/Information Splash Page
 - SMS/MMS
 - Streaming Video
 - Auditable DB Access
 - Video transfer
 - Smart911
 - Silent, CAD-based dispatch
 - Telemetry
 - ISSI-based Gateways for PS LTE PTT and P25 connectivity
 - Field-based server apps
 - Location-based services
 - NIMS ICS-based services
- 
- Many applications will need to be optimized for PS LTE
 - All will require security equal to or better than CJIS and HIPAA defined requirements
 - Successful deployment will require more application coordination than is currently in place



Overview

SLIGP Grant Program



NTIA National Allocation

- Award period is 3 years
- Only states and territories can apply
- Total Federal Share is about \$121M
- Formula-based, not competitive
- Each state given flat \$500K PLUS
 - Allocation by population and land mass

State of Michigan

- Max Federal Share: \$3,347,673*
- Req'd Match (20%): \$837,574
- Match can include In-Kind
- Total Grant Amt.: **\$4,184,591**

**Amounts above reflect adjustments for 2013 sequester (~3%). 1- SLIGP update FN Board Meeting 13 Aug*

Expected Deliverables

- Establish governance structure to consult with FirstNet
- Ensure local and tribal representation and participation in FirstNet consult. process
- Education & Outreach on PS Broadband network among local, tribal and PS users
- Identify potential PS users for PS Broadband network
- Develop MOAs to facilitate use of existing infrastructure with private sector entities
- Staffing Plans that include local and tribal representation for governance and preparation of data collection
- Comprehensive plan as part of or complementary to SCIP to describe PS needs for nationwide network



SLIGP Phases

Phase 1

Focuses on awareness and engagement of the Public Safety Broadband stakeholders and users

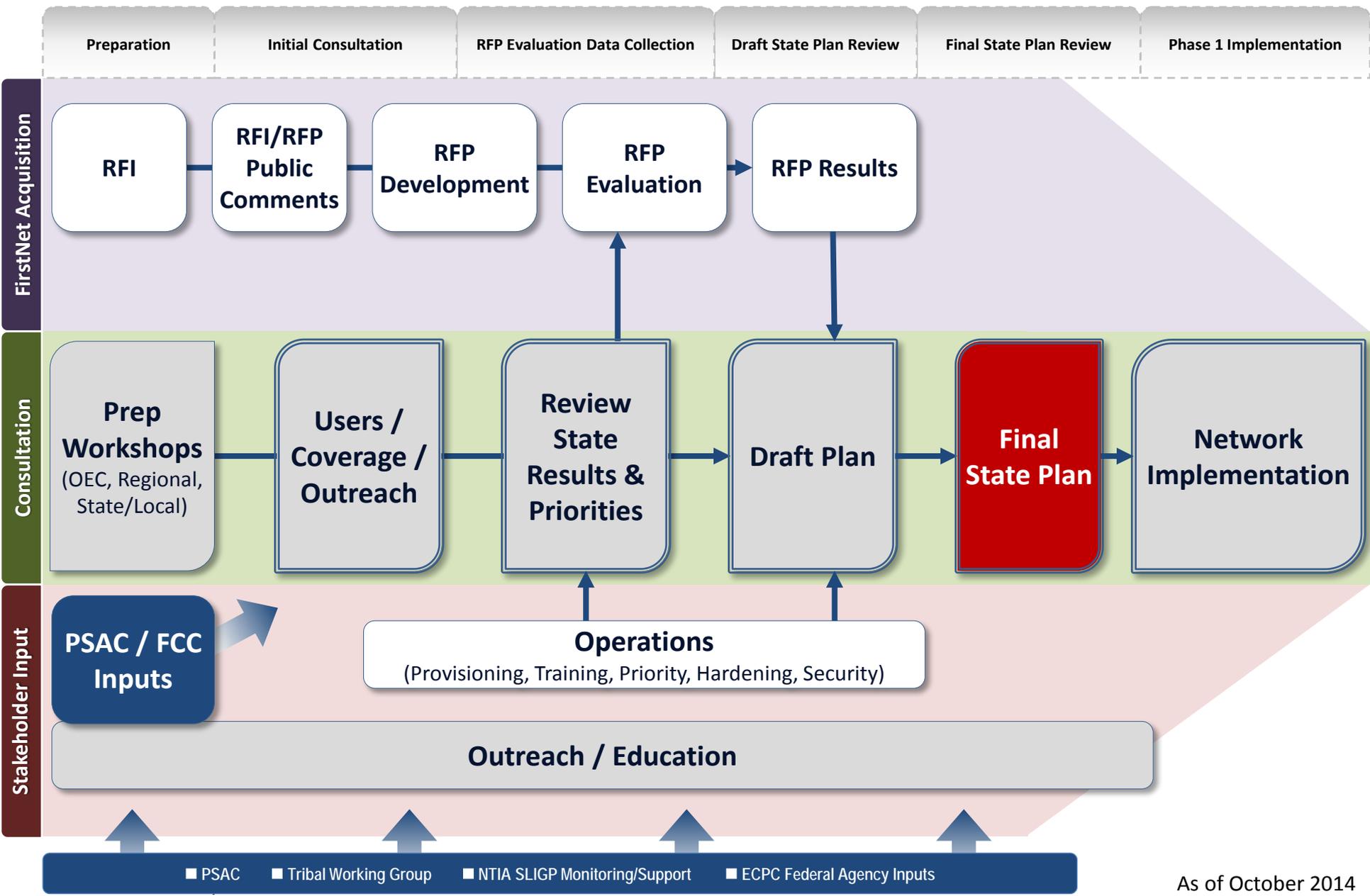
Phase 2

Focuses on FirstNet consultation and preparing for the RFP

Continuous throughout SLIGP

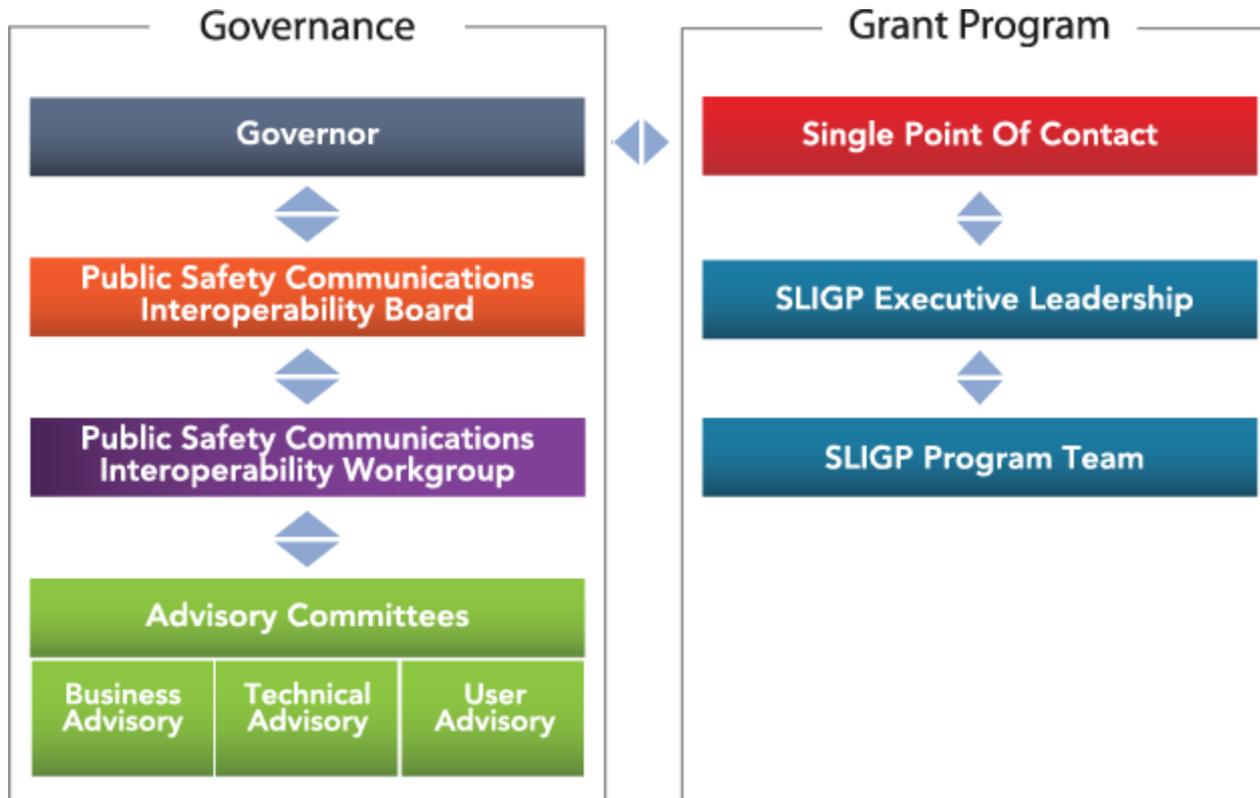
Outreach & Education
Data Collection and User Requirements
Memorandums of Agreement
Interoperability

Updated Consultation Approach





Governance Model





Michigan's Current Activities

- Preparing to submit Michigan's Pre-consultation Readiness Report
- Request for Proposal for Consultative Service Posted
- Finalizing governance strategy
 - Establishing advisory teams: User, Tech, Business
 - Technical Advisory Team Activity Engaged
- Finalized and Executing Outreach and Education Plan
 - Conference Presentation
 - Requirement gathering
- Active coordination with other states' team, across Midwest FEMA Region V



User Advisory Team

Composition of Group

- Comprised of representatives from local and state Public Safety Stakeholders
- Potential network users and operation support Public Safety Stakeholder

High level tasks and responsibilities:

- Coordinate operational inputs, requirements and feedback
- Prepare, participate and contribute on User and policy aspects of FirstNet Consultations
- Identify application requirements and baseline existing deployments
- Drive user engagement, help gather and compile local, tribal, county and state requirements for coverage and operational aspects
- Assist with SLIGP Outreach & Education to peer groups by discipline

General Skills Requirement:

Individuals must have a strong day-to-day operational background in understanding the discipline being represented.



Business Advisory Team

Composition of Group

- Comprised of representatives from local and state Public Safety Stakeholders
- Potential network users and operation support Public Safety Stakeholder

High level tasks and responsibilities:

- Establish business, cost and partnership models and options
- Focus on sustainability and leveraging current assets
- Establish business guidance for coverage requirements
- Participate in business aspects of FirstNet Consultations
- Help gather and compile local, tribal, county and state business requirements

General Skills Requirement:

Individuals must have a strong understanding of cost models for supporting technology and an understanding of developing sustainable business models.



Technical Advisory Team

Composition of Group

- Comprised of representatives from local and state Public Safety Stakeholders
- Potential network users and operation support Public Safety Stakeholder

High level tasks and responsibilities:

- Analyze user requirements and map to technical strategy
- Analyze specific technical directions / strategies
- Prepare, participate and contribute on technology aspects of FirstNet Consultations
- Help gather and compile local, tribal, county and state requirements for coverage and operational aspects
- Develop Strategic Direction

General Skills Requirement:

Individuals must have a strong technical background in understanding the operational use and the implementation of the public safety communications technologies.



Local Tech Advisory Members

Ron Plamondon	Leelanau County IT
Carl Rodabaugh	Midland County 911
Ray Hansil	Mason-Oceana 911
April Henzie	Eaton County 911

State Tech Advisory Members

Brad Stoddard	DTMB, MPSCS
Mark Sandberg	DTMB, MPSCS
Jerry Nummer	DTMB, MPSCS
Jennyl Simon	DTMB, MPSCS
Paul Harmon	DTMB, CSS
Laura Blastic	DTMB, CSS
Harriet Miller-Brown	MSP, State 911 Administrative Section
Mike Armitage	MSP, State 911 Administrative Section



Eligible Users

- Technical Advisory Team released Mobile Data and Next Gen 911 Survey on December 2, 2014, closing December 31, 2014
- Gather information for planning of the Public Safety broadband network and the next steps in the move to next generation 911 (NG911)
- <https://www.surveymonkey.com/s/J7B5565>



Goal of the Survey

- Collect information to understand the current landscape of the Public Safety use of LTE
- Collect information to understand the readiness for Next Generation 911
- Bring the initiatives together to find touch points and interfaces between the two



FEMA Region V

- Monthly Meeting via conference call
- FEMA V FirstNet Meeting February 26th in Chicago
- Invite Region V States, FirstNet, Commercial Carriers Association and LMR Association
- Topics:
 - National Design and Architecture
 - Spectrum Issues
 - Phase II Data Collection
 - NG911 Integrations
 - RFI Summary
- Attending others States Consultations



Michigan's Involvement

Participating in regional and national planning

- **APCO Broadband Committee** – Brad Stoddard, Vice Chair
- **NGA** – Involved with National Governors Association (NGA) for guidelines for all governors
- **NPSTC** – Participating with National Public Safety Telecommunications Council (multiple committees)
- **NTIA, NIST and Public Safety Communications Research (PSCR)** – Federal entities focused on public safety communications
- **RECCWG** – FEMA Regional Emergency Communications Coordination Working Group
- **FEMA Region V** – Working groups with Ohio and Indiana expanded to entire 6 state FEMA region
- **Public Safety Advisory Committee** – Advising FirstNet on public safety needs
- **National Association of State 9-1-1 Administrators (NASNA)**





Preparing for public safety broadband

- Learn more about FirstNet!
- Think about your future coverage and operational needs
- Identify assets which could be leveraged by FirstNet
- Make sure new purchases of 4G broadband devices are capable or upgradeable to Band 14 (B14)
- Review new purchases and seeks out new purchases
- Start preparing data applications for mobile and broadband operation
- Identify opportunities with your vendors to make sure your mobile applications work on multiple platforms
- FirstNet will not immediately be able to offer a Mission Critical Voice Solution – Continue To Support Your LMR Systems





Stay Connected!



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firstnet.gov



Questions

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