



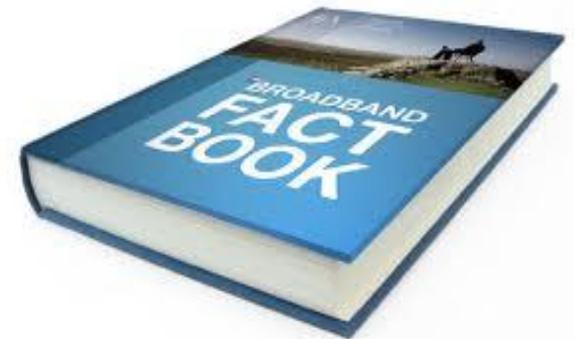
# Public Safety Broadband Network

FirstNet and Michigan's Next Steps



# What is Public Safety Broadband Network (PSBN)?

- What is PSBN?
  - It is defined as a single nationwide public safety broadband network based on the industry standard Long Term Evolution (LTE) technology, comprised of specific public safety allocated spectrum in the 700 MHz frequency band
  - To allow first responders anywhere in the nation to send and receive critical voice, video and data to save lives
  - To ensure all Americans can access emergency services quickly
  - To revolutionize the way Americans are notified about emergencies and disasters
  - To reduce threats to e-commerce and other Internet-based applications



# What is NPSBN...FirstNet

- What we know today
  - Nationwide Broadband Network For Public Safety named in the Middle Class Tax Relief and Job Creation Act of 2012
  - International standards based technology direction
  - In response to the 9/11 Commission Report
  - Foundational requirement for “D Block” reallocation to public safety
- Funded
  - Planning Funds - \$135 Million
  - Implementation Funds - \$7 Billion
- State Level Decision
  - Provide FirstNet Board Michigan’s requirements
  - Opt In / Opt Out
- Operated by FirstNet Board



# FirstNet Essential Facts

- FirstNet - First Responder Network Authority
- Congress created a new Federal authority within NTIA / Department of Commerce to control state & local first responder broadband communications. (H.R. 3630)
- Empowered to build and operate a nationwide public safety broadband network for state & local public safety agencies.
- Established a 15-Member Board selected by NTIA and appointed by the Acting Secretary of Commerce.
- <http://www.commerce.gov/print/news/fact-sheets/2012/08/20/fact-sheet-first-responder-network-authority-firstnet>
- FirstNet is expected to issue RFPs for a national core network and commercial carrier built and operated regional networks.
- First meeting of FirstNet Board will be September 25th and will be open to the public and webcast live on internet
- <http://www.ntia.doc.gov/firstnet-public-meetings>

# The Hardware

**HIGH  
RESOLUTION  
VIDEO  
CAMERA**

**DEDICATED PTT  
VOIP CLIENT**

**RUGGED, SEALED  
ULTRA-BRIGHT  
DISPLAY**



**6 RADIOS in ONE  
DEVICE**

- BAND 14 PUBLIC SAFETY LTE
- BAND 13 PUBLIC CARRIER LTE
- 3G EVDO
- CDMA
- WI-FI 802.11 A/B/G/N
- GPS

**MISSION  
CRITICAL  
BLUETOOTH**

# The Applications

- **National Public Safety Telecommunications Council (NPSTC) Broadband Task Force identified applications:**

- Internet Access – Required
- VPN Access to any Authorized Site and to Home Networks – Required
- Access to Responders under Incident Command System (ICS) – Required
- Status/Information “Homepage” – Required
- Field-Based Server Applications – Required
- Status/Information “SMS-MMS Messaging” – Required
- Land Mobile Radio (LMR) gateways – Required
- Location Based Data Capability – Desired
- One-to-Many Communications across All Media – Desired
- LMR Voice – Desired
- PSTN Voice – Desired



- Applications will need to be more efficient than what we use today
- Security will need to be integrated with the network and the applications

# Michigan Involvement

- **Finalizing Statewide Interoperability Governance Board**
  - Define Public Safety broadband strategic plan
  - Correlate Homeland Security Investments toward strategic plan
  - Identify duplicities in planning with parallel initiatives
- **Participating in regional and national planning**
  - Working groups with Ohio and Indiana expanded to entire 6 state FEMA region
  - FEMA Regional Emergency Communications Coordination Working Group (RECCWG)
  - Member of APCO Broadband Committee
  - Participating with National Public Safety Telecommunications Council (multiple committees)
  - Working with NTIA and NIST Public Safety Communications Research (PSCR) program
  - Involved with National Governors Association (NGA) for guidelines for all governors
- **Public Safety Broadband Planning**
  - Current team is core group of DTMB, MSP, AG and Governor's office
  - Need of expanding to include local and tribal members, fraternal organizations, and IT leaders
  - Develop outreach and education materials; focused plan and statewide strategy



# State and Local Implementation Grant Program (SLIGP)

- Phase 1 deliverables:

- 1) Establish or enhance a governance structure to consult with FirstNet
- 2) Develop procedures to ensure local and tribal representation when the State is consulting with FirstNet
- 3) Conduct education and Outreach for all relevant stakeholders
- 4) Identify public safety users for network
- 5) Develop appropriate and standard MOU for Michigan to facilitate possible sharing of infrastructure with FirstNet
- 6) Develop staffing plans to involve local and tribal stakeholders in a future data collection in consultation with FirstNet
- 7) Prepare a comprehensive plan as part of Statewide Communications Interoperability Plan (SCIP) or a plan complementary and similar to the SCIP describing the public safety needs that you expect FirstNet to address, plus milestones



- Phase 2 deliverables:

- 1) Used for additional consultation with FirstNet and planning to undertake data collection activities.

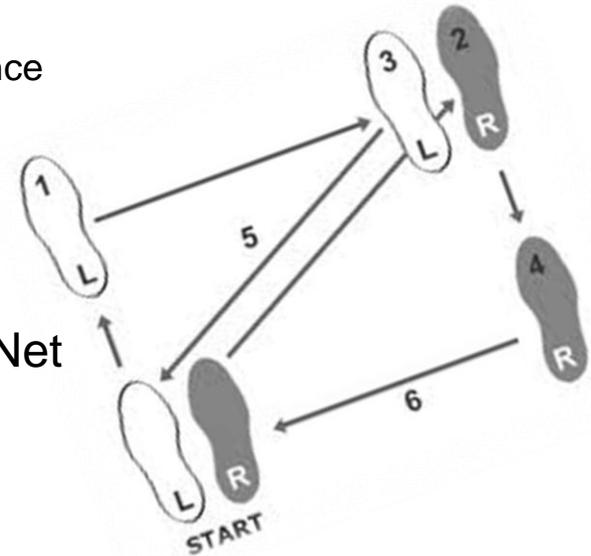
# Michigan Activity

- Governor designated the State Chief Information Officer (CIO) to be the single point of contact for FirstNet
- Development of the grant application is completed and submitted
  - Peer reviews conducted
  - States to be notified by July
- Strategic governance definition initiated 11 months ago
- Leading regional multistate efforts in establishing questions and clarifications for FirstNet
- Involvement is required by local and tribal partners



# Next Steps - Michigan

- Redefine Interoperability
- Update statewide governance
  - Identify regional governance for rollup to Statewide governance
- Identify Convergence
- Statewide Planning
- Create local, tribal, and state stakeholders for FirstNet user development
- Evaluate
  - Taxpayer Investments
  - Partnerships



# The Challenges

- **Governance**

- How can Michigan define a new governance model that incorporates a structured regional model?
- Who has the control?
- Who decides the strategy?

- **Outreach and Education**

- Stakeholder planning involvement
- Does everyone/will everyone from the end-users to those paying the bills understand what is happening now and what is planned for the future?

- **Funding**

- Coverage to meet Michigan's requirements
- Sustainability of the system
- End User purchase of devices and service fees

- **Technology**

- LTE
- Mobile and Portable Equipment
- Security
- Applications



# What Should You Do Now?



- **Get Involved**
- Start thinking about your business changing
  - How will wireless broadband benefit?
  - What will you do differently?
  - Operationally, will your model change?
- Plan strategically for long term investments
- Educate your stakeholders in your community
- Be prepared for state and national surveys to develop benchmarks of activity currently underway and planned future activities.
- **Get Involved**

# Questions

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