



Michigan Pre-Regional Workshop Webinar





PSLTE 101 Webinar AGENDA

PART 1. What is Public Safety Long Term Evolution (PSLTE)?

PART 2. What is the Roadmap for Implementation of FirstNet?

PART 3. What is Michigan's Perspective?

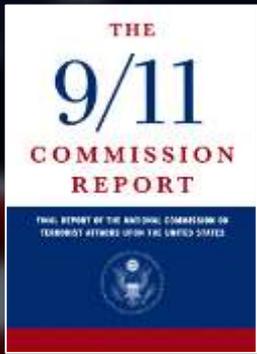


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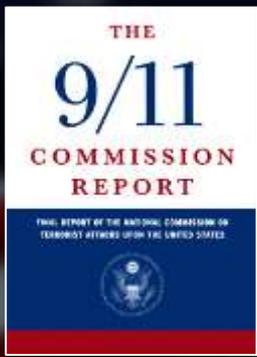
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Recommendation 27:

Congress should support pending legislation which provides for the expedited and increased assignment of radio spectrum for public safety purposes...



National Governors Association
National Association of Counties
National League of Cities
United States Conference of Mayors
Council of State Governments
International City/County Managers Association
National Conference of State Legislators
International Association of Chiefs of Police
International Association of Fire Chiefs

National Sheriff's Association
Major Cities Chief's Association
Metropolitan Fire Chiefs Association
Major County Sheriff's Association
Association of Public Safety Communications Officials
National Emergency Management Association
International Association of Emergency Managers
Police Executive Research Forum
National Criminal Justice Association
National Association of Police Organizations
National Volunteer Fire Council
National Troopers Coalition

National Organization of Black Law Enforcement Executives
Association of Air Medical Services
Advocates for Emergency Medical Services
Emergency Nurses Association
National Association of EMS Physicians
National Association of Emergency Medical Technicians
National Association of State EMS Officials
National EMS Management Association
American Probation and Parole Association
National Associations of Regional Councils



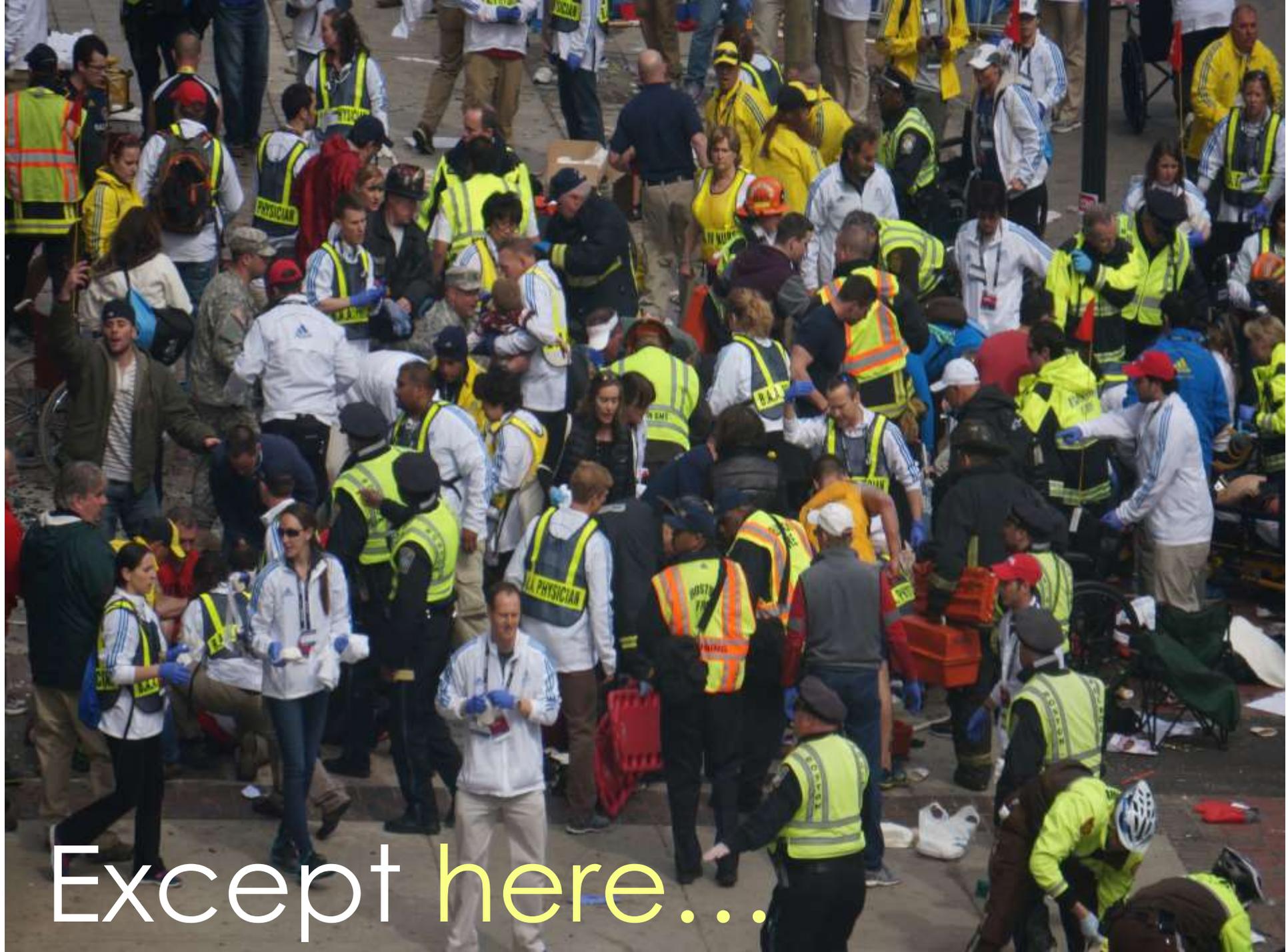
St. Peter's Square: The Vatican

2013

Pope Francis Debut

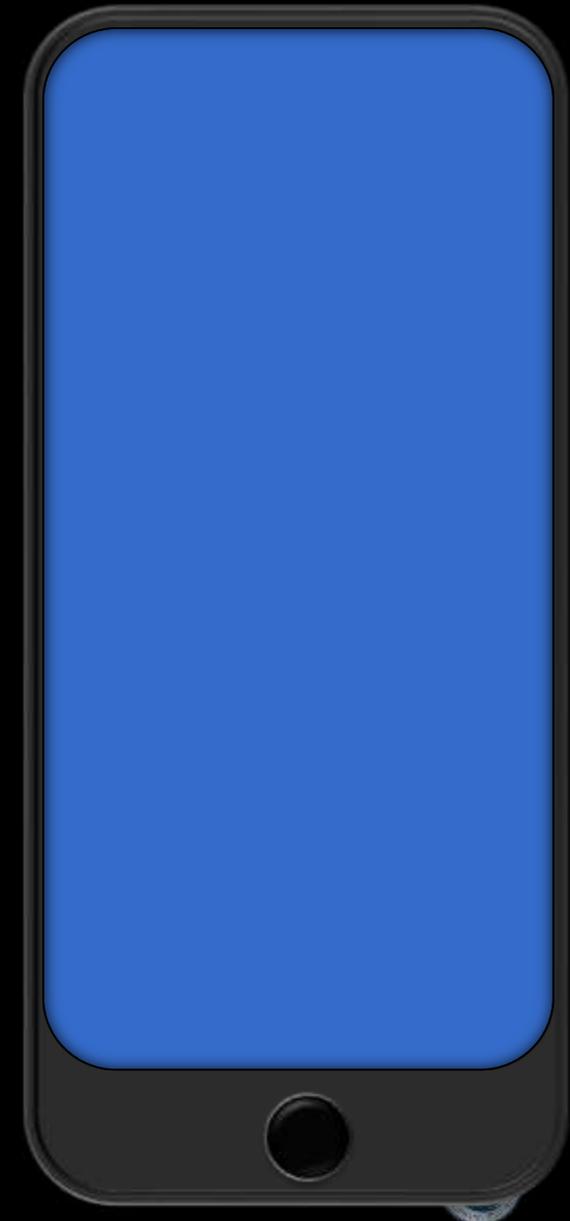
Today data and devices are EVERYWHERE!

Look! A Flip Phone!



Except here...

With Public Safety Broadband...





Vision of PSLTE

To provide emergency responders with a nationwide, high-speed, wireless broadband network dedicated to public safety.

THE ACT & FirstNet



The Middle Class Tax Relief and Job Creation Act



THE LAW

2.22.12

FirstNet becomes law

PL 112-96

FUNDING

\$7B authorized to build the FirstNet network.



Funded by spectrum auctions through 2022

GOVERNANCE

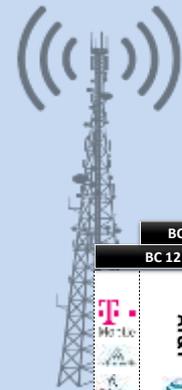


The FirstNet Board has 15 members, including those with telecommunications and public safety backgrounds

Each Governor appoints 1 Single Point of Contact (SPOC) and governing body to represent the state's interests to FirstNet

40 member Public Safety Advisory Committee (PSAC) advises FirstNet on public safety intergovernmental matters

BAND 14



20MHz of bandwidth has been dedicated to public safety in the prime upper 700MHz frequency range

BC 17		BC 29		BC 17		BC 13		BC 14	LMR	BC 13	BC 14	LMR
UL	UPLINK	DL	DOWNLINK	DL	DOWNLINK	DL	DOWNLINK	DOWNLINK	UPLINK	UPLINK	UPLINK	UPLINK
6 MHz	12 MHz	12 MHz	6 MHz	12 MHz	11 MHz	10 MHz	6 MHz	11 MHz	10 MHz	6 MHz	6 MHz	6 MHz

1 MHz Guard Bands



Nationwide Public Safety Broadband Network

Mission: To design and implement a nationwide public safety broadband network with a self-sustaining funding model and ubiquitous interoperability

A single interoperable platform for all emergency and daily public safety communications



Board Members

Public Safety & State/Local Gov

Teri Takai

Government information technology expert and former CIO, Michigan and California

Chris Burbank

Chief, Salt Lake City Police Department

James H. Douglas

Former Governor, Vermont

Jeffrey Johnson (Vice Chairman)

Fire Chief, retired; CEO Western Fire Chiefs Association

Kevin McGinnis

Chief/CEO, North East Mobile Health Services

Annise D. Parker

Mayor, City of Houston

Richard W. Stanek

Sheriff, Hennepin County, Minnesota

Private Sector

Susan Swenson (Chairwoman)

Telecommunications/technology executive

Barry Boniface

Private equity investor and telecommunications executive

Ed Reynolds

Telecommunications executive (retired)

Neil Cox

technology executive, Illinois

Edward Horowitz

venture capitalist, New York

Federal

Shaun Donovan

Director of the Office of Management and Budget

Jeh Johnson

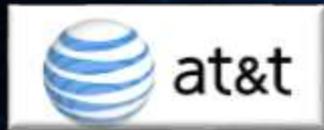
Secretary of the United States Department of Homeland Security

Loretta E. Lynch

Attorney General of the United States



A New Choice for Public Safety



What will the network provide?

- Public Safety Grade hardening
- Greater reliability than commercial networks
- Freedom from consumer congestion
- Public safety app environment

What does this mean to existing public safety 2-way radio systems?



Nothing for the
foreseeable future

Applications Envisioned



- Internet Access
- Mobile VPN
- SMS/MMS
- Streaming Video
- Auditable Database 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
- ...much, much more

What will the network cost?

- FirstNet's goal is to offer monthly access rates comparable to carrier rates
- FirstNet will pay for the placement of infrastructure – NOT local jurisdictions
- Local jurisdictions will purchase their own Band 14 hardware

FirstNet's goal is to create a network that public safety entities will choose to spend their existing and future data communications budget on rather than commercial carriers



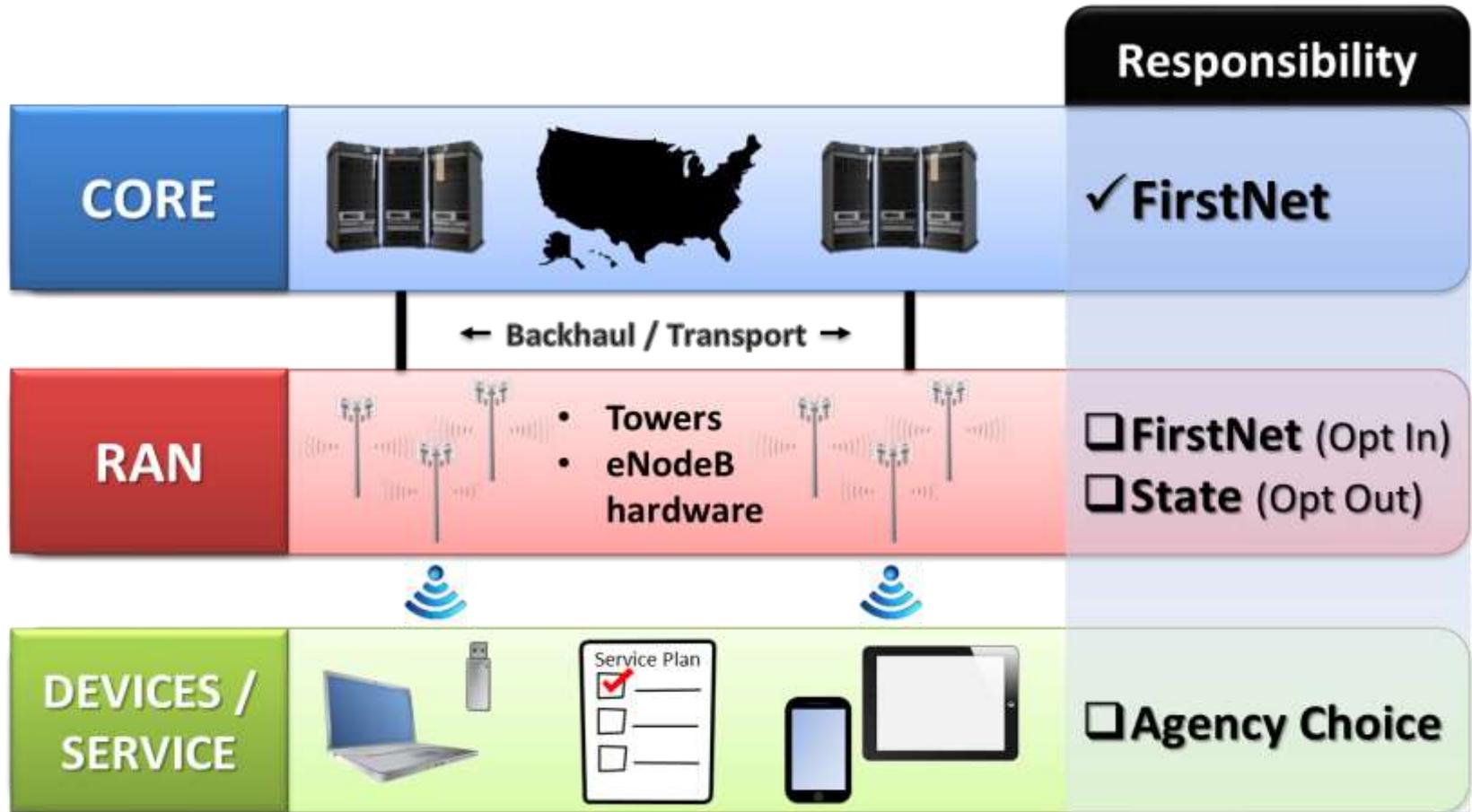
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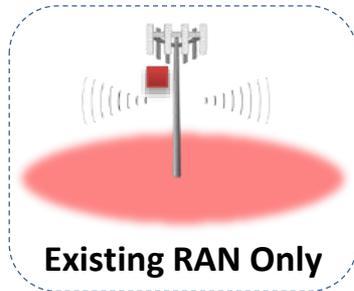
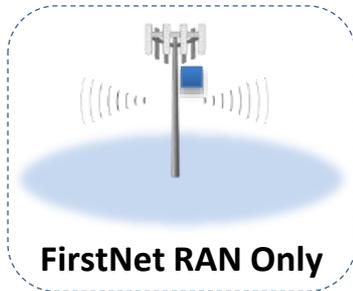
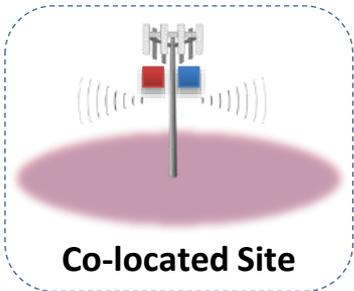
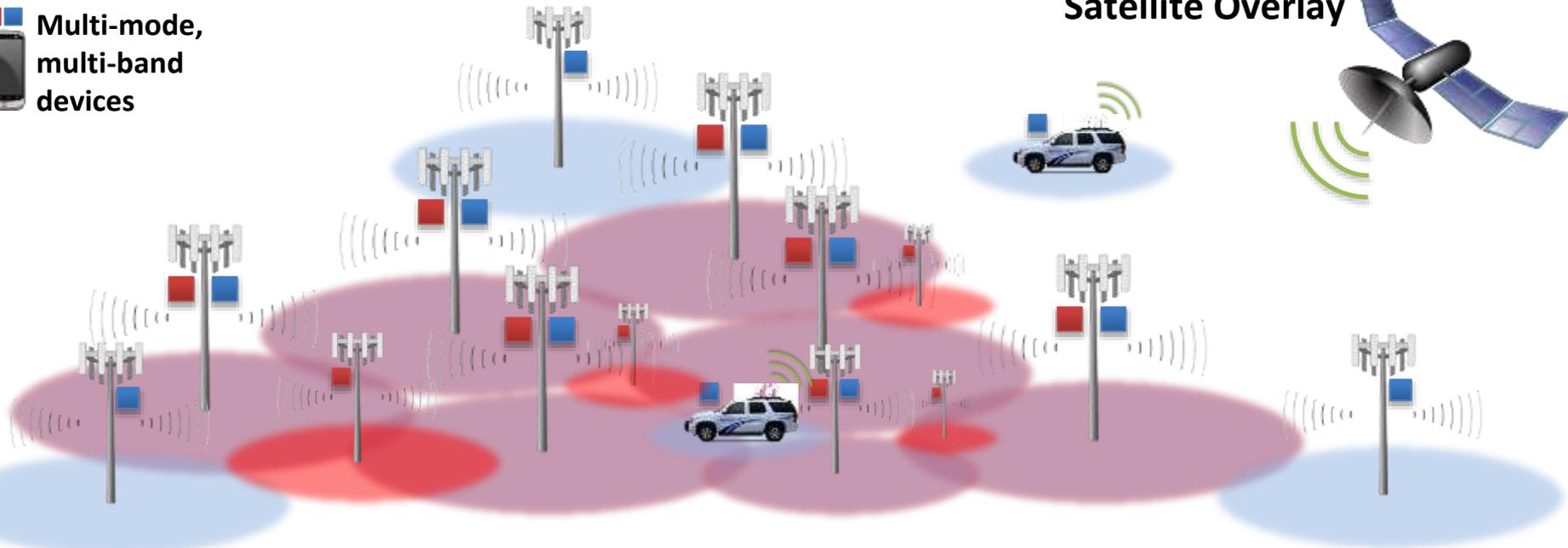
Network Responsibility



Conceptual Design Approach

 Multi-mode, multi-band devices

Satellite Overlay



 = FirstNet RAN (Band 14)
 = Existing RAN (Band ??)
 = Satellite Overlay

In order to be self-sustaining,
the business model has to stack up...

\$7B

**Excess
Capacity
Revenue**

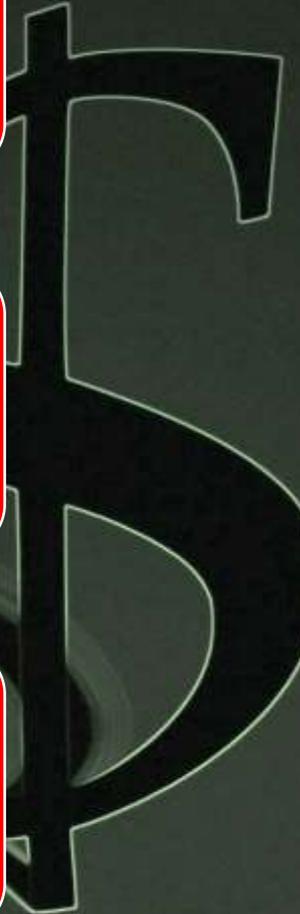
**Fees
User, Core,
Infrastructure
Lease**

=

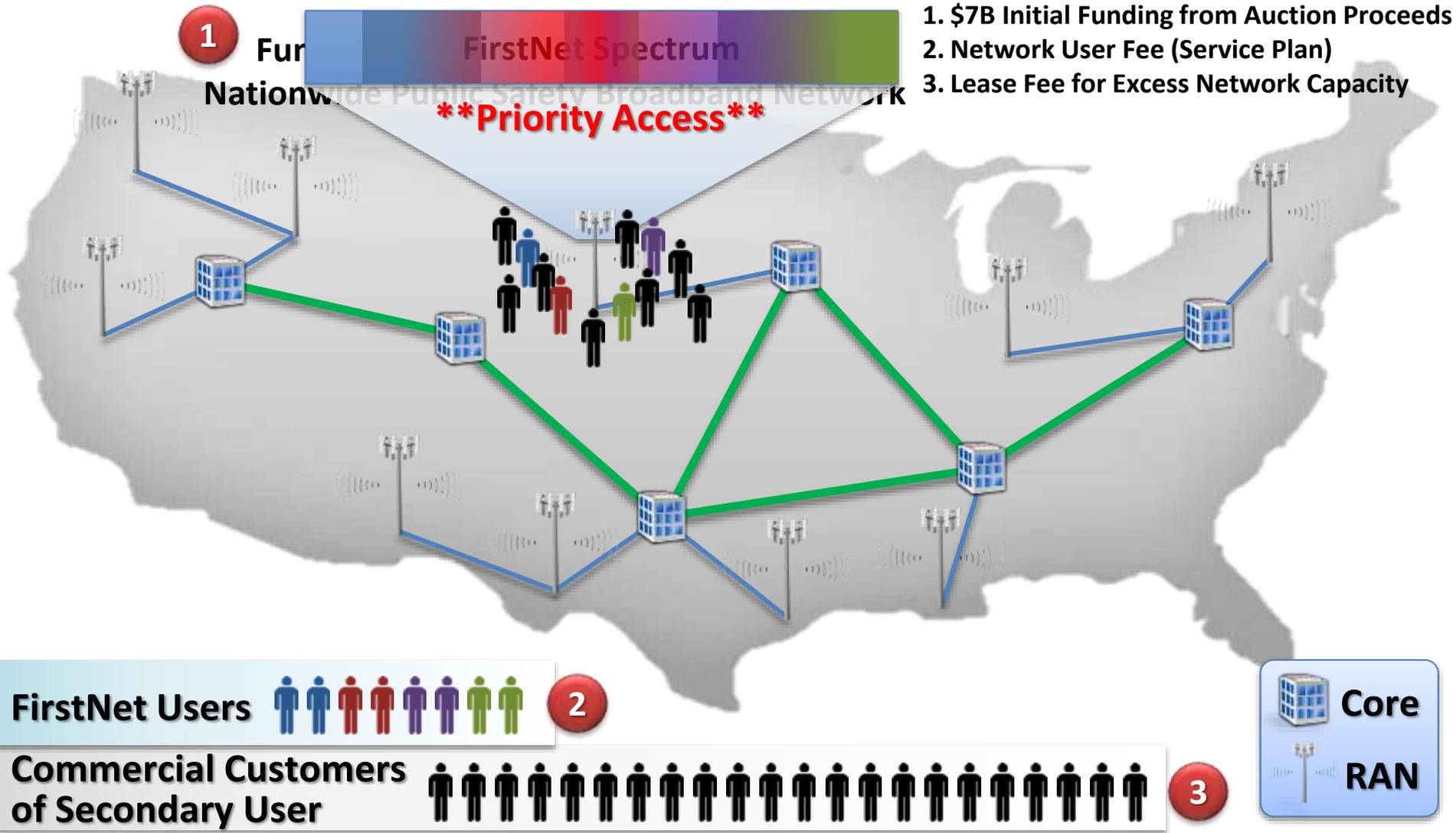
**Deployment
Costs**

**Operations,
Maintenance
& Upgrades**

**PS Features
Priority,
Security,
Hardening**



Revenue, Architecture & Priority



Current FirstNet Roadmap Snapshot

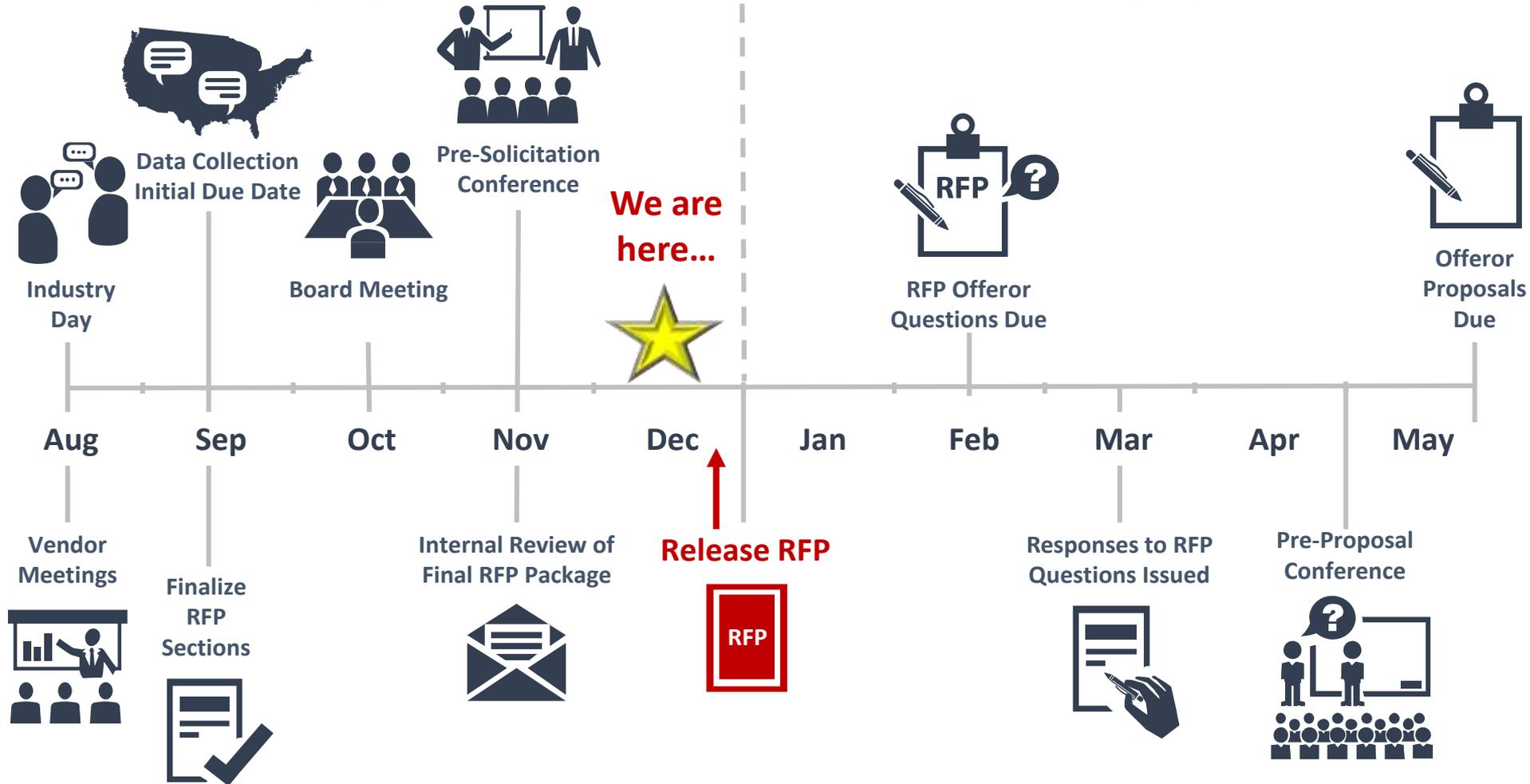


Huron River Drive

FirstNet Timeline

2015

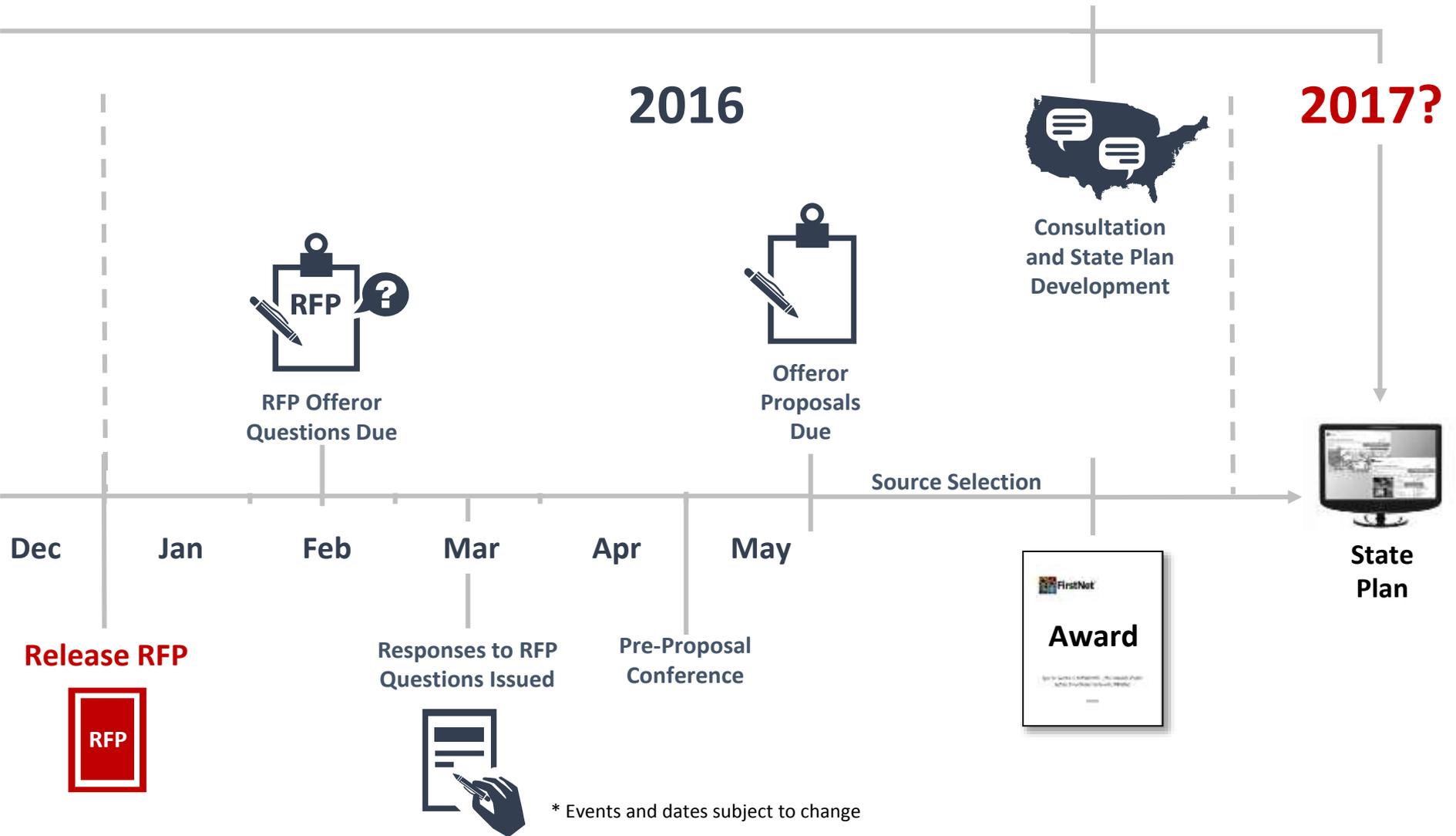
2016



Play

* Events and dates subject to change

FirstNet Timeline



2016 Consultation Milestones



2015

2016

2017

SPOC Kick-Off Meetings

Document State Engagement Strategy

FirstNet and SPOC Meetings

Continued Outreach

Governance Body Meetings

Statewide Governance Body Meetings

CTT

PSAC Initial Input on PP and PSG Complete

Kick Off Webinar

State CTT Meetings

Regional Webinars

Executive Consultation

Governor's Office Meetings

Executive Consultation Meetings



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THE Michigan
Perspective



Michigan's Historical Approach to Shared Solutions

1900's - Invention of Public Safety Communications in Detroit

1920's - Nation's First Statewide Land Mobile Radio System

1960's - Michigan's 911

1990's - MPSCS

2000's - Michigan's LGNET Wide Area Network

2010's - Cyber Security (Michigan Cyber Range)

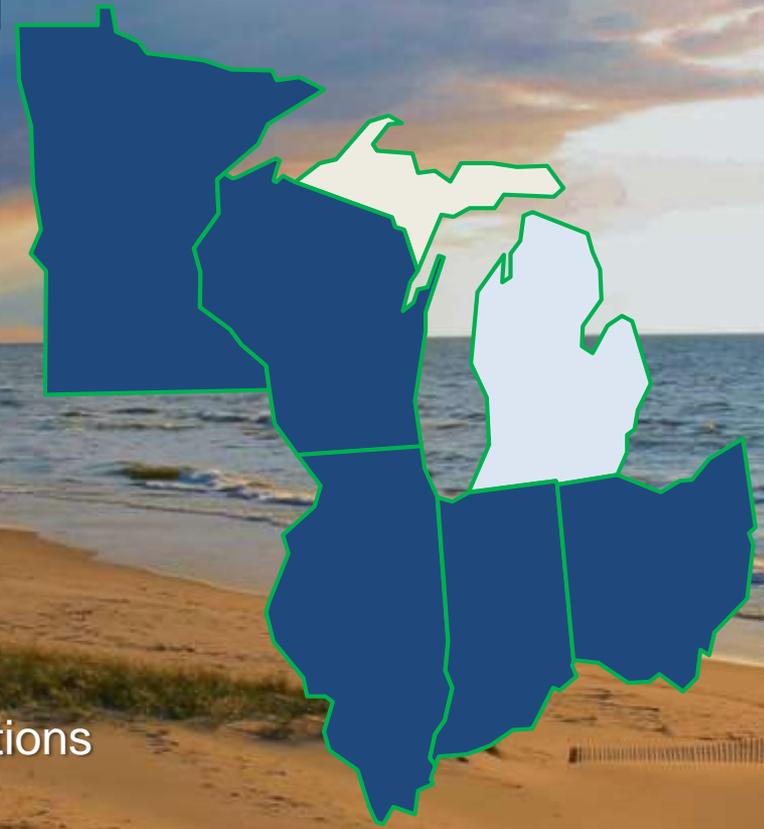
2010's - NG911

2020's - FirstNet Network





FEMA Region V Involvement



- Monthly Meeting via conference call
- Regular Face-to-Face Meetings
- Knowledge and Information Sharing
- Participating with FEMA Region V Consultations
- Interoperability – leverage PBSN





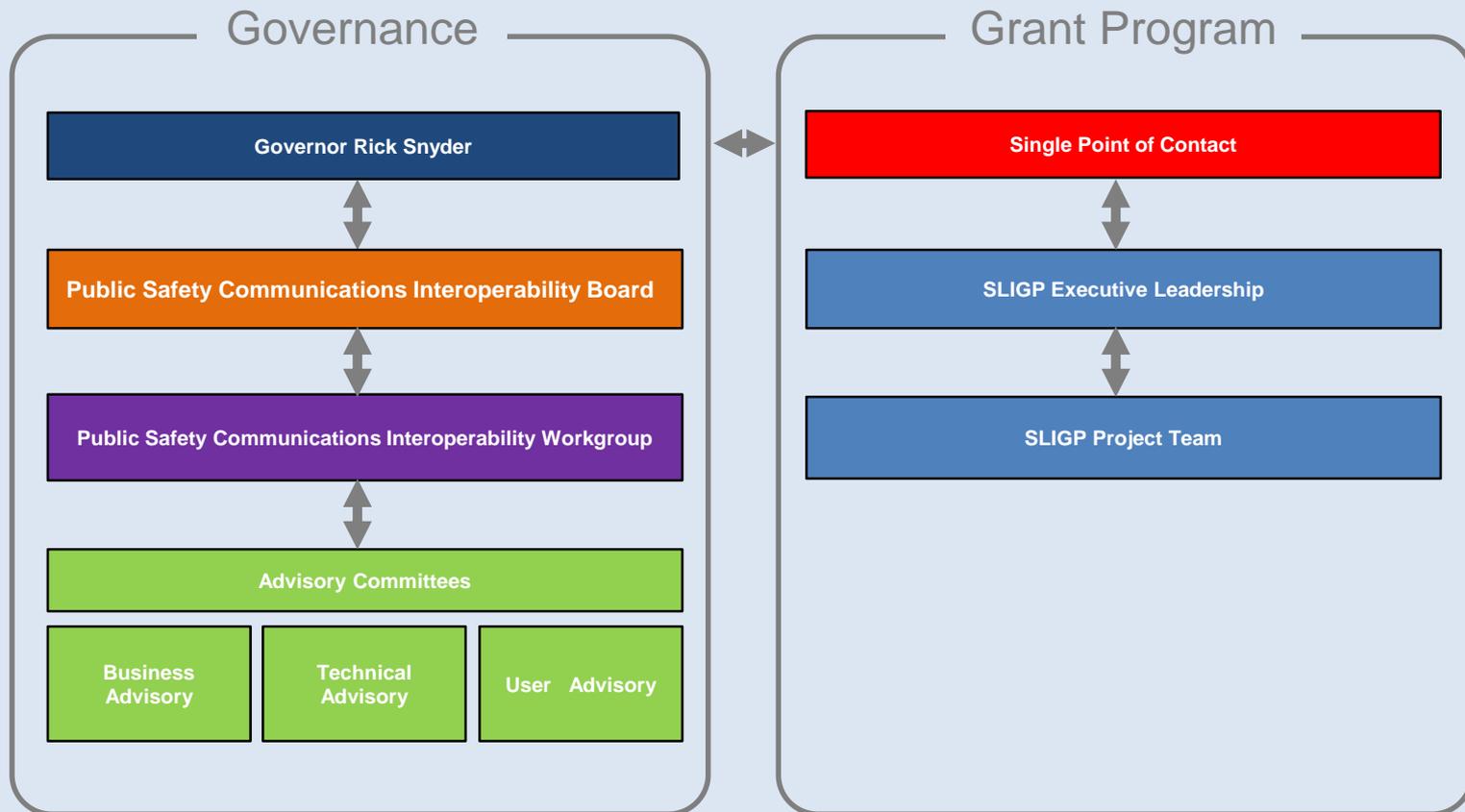
Michigan's National Involvement

Participating in state, regional, national and international planning

- **APCO Broadband Committee** – 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 & Public Safety Communications Research (PSCR)** – Focus 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 PSAC** – Advising FirstNet on public safety needs
- **National Association of State 9-1-1 Administrators (NASNA)**
- **SNC** - State 911 Committee
- **MPSCIB** - Michigan's Public Safety Communications Interoperability Board
- **MCDA** - Michigan Communications Directors Association
- **Michigan NINA**
- **CAUSE** - Canada US Experiment Initiative
- **SMART CITIES**



Michigan Governance Model





Michigan's Activities To-Date

- ☑ Initial Outreach and Education
- ☑ FirstNet Consultation – September 1st, 2015
- ☑ Data Collection - September 30th, 2015
- ☑ Initial Prioritization of User Needs – September 30th, 2015
- ☑ Coordination with other states' teams across Midwest FEMA Region
- ☑ Finalizing Governance Strategy

The Technical Advisory Team is actively Engaged
Establishing advisory teams: User, Business



Michigan's Next Steps

- Regional Engagement Workshops – Region 6 Pilot December 16th, 2015
- Regional Engagement Workshops – All others Q1/Q2 2016
- Review and validate coverage and priority phasing – 2016
- Participate in Consultation Task Teams on State and National level
 - Local Control
 - Priority and Preemption
 - Others as defined
- Additional FirstNet consultation meetings

*We need you to be an Advocate for your Discipline,
...as well as an Advocate for your Community!!!*



What does Michigan want from FirstNet?

- PSLTE Phased Approach that will have emphasis on underserved areas
- Baseline coverage that is equal to or better than MPSCS coverage
- Integration into the communications network to enhance interoperability
- Create a converged network of PSLTE and NG911 for public safety service delivery.
- Provide a PSLTE Solution that is Cost Effective





What does MiPSB need from Regional Contacts?

- Participation
- Local Knowledge and Needs
- Insight on Regional Specific Needs
- Validation of Data Collected





Logistics

- Meeting will be held at the Kent County courthouse on December 16th from 10:00am – 3:00pm
 - Address: 180 Ottawa Ave NW, Grand Rapids, MI 49503
 - Registration will open at 9:30am
- Parking: Please park in the Government Center Ramp
 - 300 Monroe Avenue Northwest
 - We can only validate parking for this ramp
- Boxed Lunch will be provided on site





Agenda

- Welcome and MiPSB/FirstNet Overview
- Region 6 Use Cases
- Interactive Session: Regional Issues
- Lunch
- Data Collection Review
- Interactive Session: Coverage Requirements
- State Plan Review
- Interactive Session: Regional Plan Discussion
- Next Steps and Wrap Up



Questions?