



Homeland Security
and Emergency Services

State Interoperable & Emergency Communication (SIEC) Board Meeting

September 27, 2017

Welcome and Opening Remarks

Michael A. Sprague,
Director, Office of
Interoperable &
Emergency
Communications,
Chair, SIEC Board



Roll Call and Approval of Minutes

Roll Call; Approval of the
Meeting Agenda;
Approval of Minutes from
July 12, 2017 Meeting



Standing Committee Reports

Presented by
Michael A. Sprague,
Director, Office of
Interoperable &
Emergency
Communications,
Chair, SIEC Board



911 Advisory Committee

Presented by
Sheriff Joseph Gerace,
Chautauqua County



Homeland Security
and Emergency Services

NG 9-1-1 Working Group

Presented by
Brett Chellis, Deputy
Director, Office of
Interoperable and
Emergency
Communications



Next-Gen 911 Working Group

- Created by SIEC Board 2/2016
- Current representation:
 - 13 Counties and NYC DOITT, NYPD
 - NYS OIEC, DPS, ITS, and NYSP
- Conducting regular conference call meetings to work on draft plan and discuss NG911 implementation.

DHSES Legal Review

- DHSES continues to research and prepare updates to the regulations to ensure that any revisions made will consider not only the current state of 911 but also the constant evolution of technology.
- Regulations must be drafted to reflect how the agencies and the state as a whole will be involved in the transition from E911 to NG911 and beyond.

Outreach

- Meetings with NYC DOITT, Westchester County, Nassau County and Suffolk County to consider a regional ESiNet solution
- Attended the Annual NASNA meeting in San Antonio along with the NENA Conference to network on NG911 projects and solutions
- Continual communications with DPS
- Meetings with GIS Program at ITS

Meetings with ITS

- Collaborative working relationship with DHSES and ITS on NG911 project
 - GIS SAM Program
 - GIS Technical Subcommittee of Working Group proposed
 - Statewide inventory of fiber and other connectivity
 - Networking expertise-investigating potential for OneNet to be levied as an ESiNet

Technical Assistance Services

- Working group and OIEC worked with OEC TA contractors on language for a draft New York State NG911 plan. The Working Group and OIEC is editing and adding to the state draft plan.

NG9-1-1 Resources

- National 9-1-1 Program www.911.gov
- NG9-1-1 Standards www.911.gov/standardsfornextgen.html
- Benefits of NG9-1-1 Video www.911.gov/ng911_movie.html
- State of 9-1-1 Webinars www.911.gov/webinars.html



Communications and Interoperability Working Group

Presented by
**Jay Kopstein and Eric
Day**, Co-Chairs



Public Safety Broadband Working Group

Presented by
Matthew Delaney, Radio
Engineer, Office of
Interoperable and
Emergency
Communications

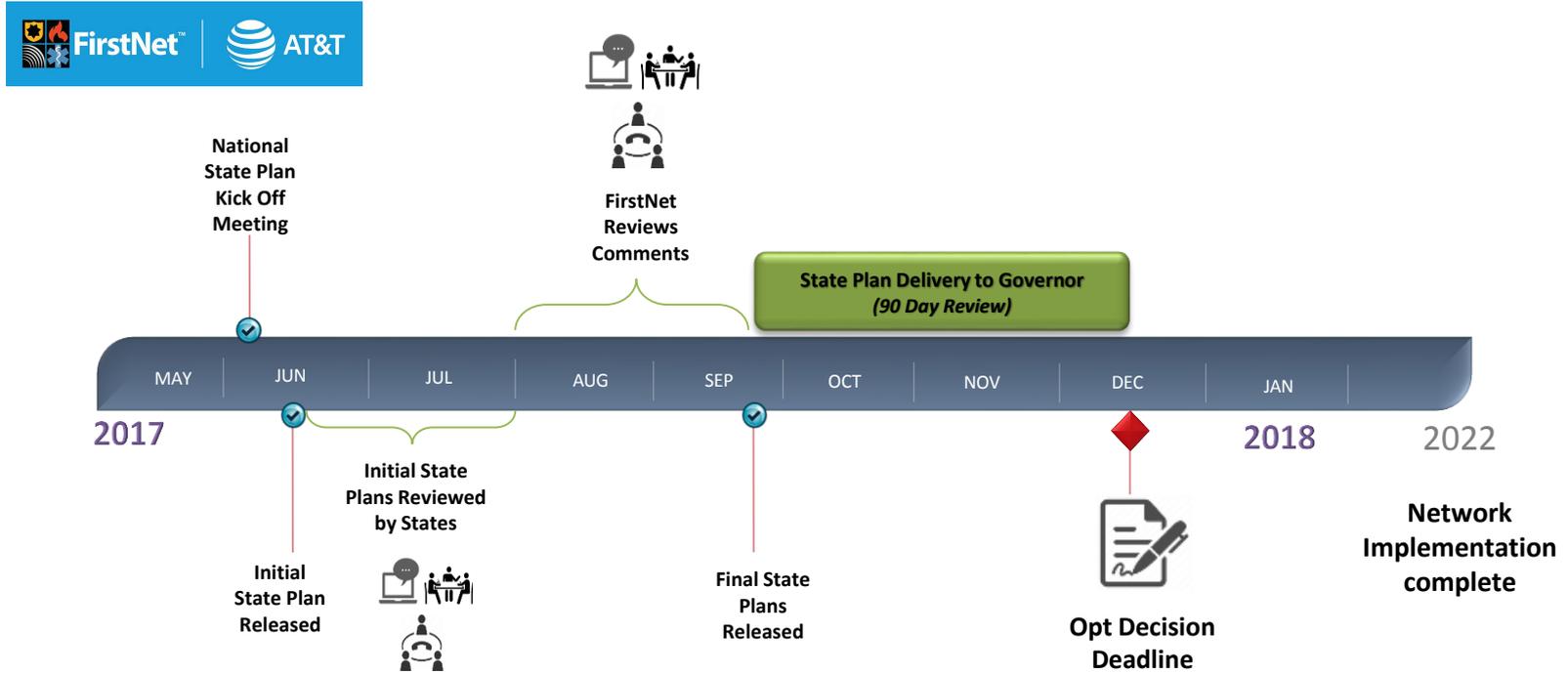


FirstNet's Award:



Contract signed with AT&T March 2017

NPSBN Milestones - FirstNet State Plans Timeline



Governor's Opt-In/Out Decision

- Opt-In: FirstNet/Partner implement the State Plan
 - AT&T and FirstNet construct and maintain Network at no cost to State (subscription services costs responsibility of user)
- “Do nothing”: Same result as Opt-In
- Opt-Out: State chooses to build their own mobile data network, integrate with the larger NPSBN



State Plan - a 40,000' View

- FirstNet selected AT&T as their NPSBN partner
 - 25-year contract/commitment
 - AT&T will build and manage the NPSBN Core
 - AT&T will deliver individual State Plans for each state (State Plan is RAN-focused)
- AT&T to use their existing national LTE network
 - Provide public safety priority and preemption on the AT&T network
 - Build-out Band 14 only where needed for capacity
 - FirstNet public safety Core

State Plan - Users

- Eligible Users
 - Primary Users
 - Police
 - Fire
 - EMS
 - Emergency Management
 - 911/PSAPs
 - Extended Primary
 - Other public safety/public service users
 - NYS is waiting for a detailed list of eligible user categories for this group

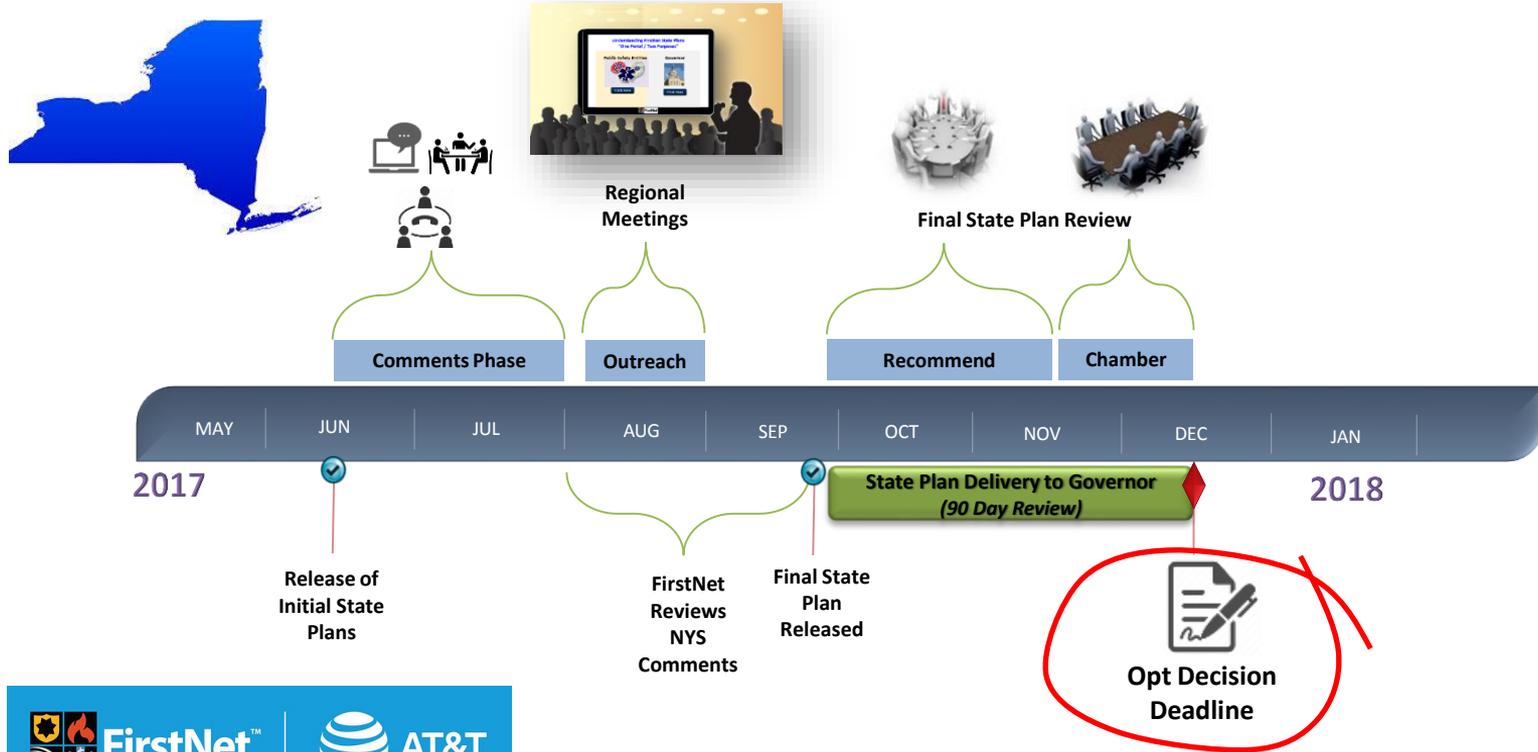
State Plan – Next Steps

- *Final* State Plan Review
- NYS must decide to
 - Opt-In (accept the AT&T-proposed RAN), or
 - Opt-Out (pursue its own RAN, attach to AT&T/FirstNet Core)
- Adoption (use) of the FirstNet/AT&T network is an agency choice. There is no mandate to use FirstNet
 - Migrate if it meets your needs; don't migrate if you prefer what you have

NYS Evaluation Plan - Mission

- Represent NYS PS Stakeholders
- Comment on pros/cons, identify where improvement is needed, provide agency decision-makers comparative information
- Document unfulfilled requests in our report so they can be used for future network enhancement planning
- Provide “Opt-In/Out” evaluation to Governor

State Plan Evaluation Timeline



10/3/2017

NYS Evaluation Plan - Strategy

- 15 Topics of Interest (TOI) organized as “Super Groups”
- Each TOI group comprised of 6+/- SMEs

During evaluation added 16th Topic: Governance & Policy

"Super Group" Name	Topic of Interest (TOI)
State RAN (Radio Access Network) Build-out	1. Coverage & Capacity
	2. Future Network Enhancement
	3. Implementation Schedule
Customer Experience	4. Cost of Services
	5. User Support Services
Enhanced Network Features	6. Public Safety Grade & Reliability
	7. Network Security
	8. Quality of Service, Priority & Preemption
User Equipment & Applications	9. User Devices & Applications
	10. Deployable Solutions
Network Management, Operations & Support	11. Network Support Services
	12. Integration with other Public Safety Systems
Comparison with Alternate Mobile Data Service Options	13. Comparison with other Mobile Data Options
Vendor Assessment	14. Vendor Assessment
Legal Factors	15. Legal Factors

Evaluation Team Composition

- Subject Matter Expert (SME) Skills Survey – encouraged public safety and their SMEs to fill out
- Skill sets matched to 15 evaluation areas
- SME volunteer invitations sent
- Conflict of Interest, Non-Disclosure requirements for participation

State Plan Evaluation Progress

- TOI teams completed reviews
- Over 400 individual comments
- 89 aggregated comments submitted

Next Steps

- State Plan
 - Continued dialogue with FirstNet
 - Review Final State Plan
 - SPOC will review, provide evaluation to Gov.
 - Governor's decision expected no later than late December

Useful Sites

- NYS PSBB website:
<http://psbb.ny.gov>
- FirstNet's website:
<http://firstnet.gov/>
- FirstNet Marketing Portal:
<https://www.firstnet.com/>

State Agency Communications Working Group

Presented by
Michael A. Sprague,
Director, Office of
Interoperable &
Emergency
Communications,
Chair, SIEC Board



Channel Naming and Use Working Group

Presented by
Matthew Delaney, Radio
Engineer, Office of
Interoperable and
Emergency
Communications



Two Guidelines to Develop

- Federal Channels
 - We have an MOU pending with the Feds
 - Will permit the SWIC to authorize state and local agencies in NY to get an FCC license on the *Federal* Interop Channels
 - We will need to develop the guidelines and policies associated with having this MOU

Two Guidelines to Develop

- Encryption
 - Adopt the Federal (CBP/NLECC) reserved keys
 - Create a plan for state/county/local key IDs
 - Looking for volunteers with P25-AES experience to assist

Citizen Alerting Committee

Presented by
Michael A. Sprague,
Director, Office of
Interoperable &
Emergency
Communications,
Chair, SIEC Board



Citizen Alerting Committee

- Last meeting July 18, 2017
- Highlighted NYS Alerting System
 - Voluntary Opt-In Network – Over 555,000
 - Very Active Network- IPAWS, RSS, Atom Feeds, CAP
 - Mobile App; Repurpose Phone Booths; Building Lobbies
- IPAWS – Initial Testing w NYR & OEM
- NY Alert Transition – December Transition to Everbridge
- Discussion Regarding update of NYS EAS Plan w/Broadcaster Association – A Group was formed to work on the Plan
- Next Meeting scheduled October 3rd 2017



PSAP and SICG Grant Updates

Presented by
Larissa Guedko, Radio
Engineer, Office of
Interoperable and
Emergency
Communications



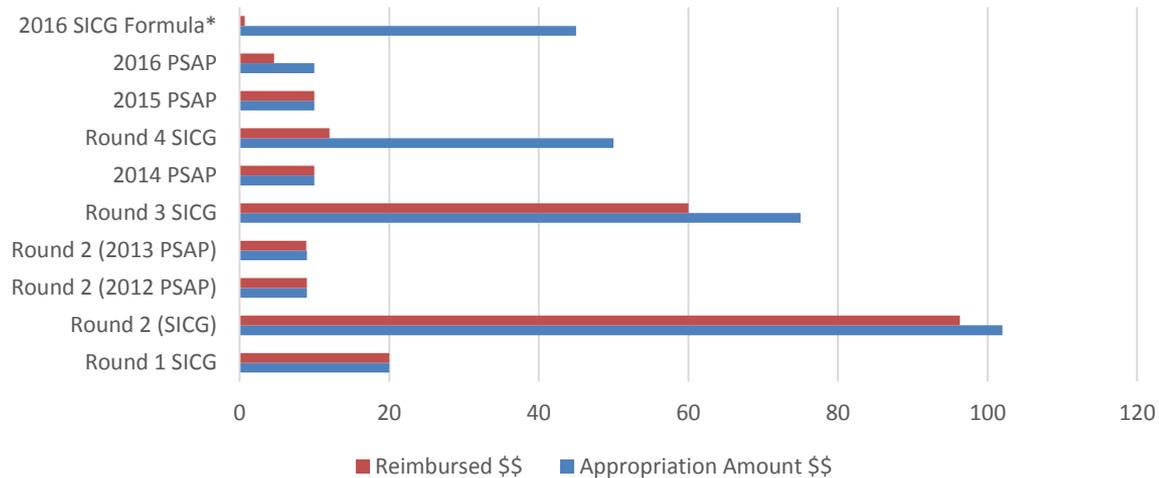
SICG Program Overview

Program Name	Appropriation Year	Appropriation Amount \$\$	Reimbursed \$\$	Project Period
Round 1 SICG	2010-2011	20 million	20 million	12/21/2011-09/30/2014
Round 2 (SICG)	2011-2013	102 million	96.3 million	02/04/2013-02/03/2018
Round 2 (2012 PSAP)	2011-2012	9 million	9 million	05/01/2013-04/30/2017
Round 2 (2013 PSAP)	2012-2013	9 Million	8.9 million	06/25/2014-06/24/2017
Round 3 SICG	2013-2014	75 million	60 million	12/03/2013-12/02/2018
2014 PSAP	2013-2014	10 million	10 million	01/01/2015-21/31/2015
Round 4 SICG	2014-2015	50 million	12 million	01/01/2016-12/31/2018
2015 PSAP	2014-2015	10 million	10 million	01/01/2016-12/31/2016
2016 PSAP	2015-2016	10 million	4.6 million	01/01/2017-12/31/2017
2016 SICG Formula*	2015-2016	45 million	0.7 million	01/01/2017-12/31/2018



SICG Program Overview

SICG Program Spending



TOTAL \$340 million in grants

Please visit www.dhSES.ny.gov/oiec/grants for detailed map and additional information



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SICG and PSAP Funding Overview

2017-18 Executive Budget appropriates \$75 million for the program as follows:

\$65 million for targeted and formula-based grants

- **Targeted: \$20 million** for large-scale radio projects to close gaps in regional communications capability
- **Formula: \$45 million** allow for on-going sustainment and improve interoperability between counties and regional partners

\$10 million – PSAP Operating Grant

An annual formula-driven grant to support ongoing operations of public safety communications centers

Anticipated Release of Grant Requests for Applications:

Formula Grant – *September-October 2017, after that every year in June*

Targeted Grant – *October-November 2017 (ongoing, rolling schedule)*

PSAP Operations Grant - *September-October 2017, after that every year in May*



SICG Formula Grant Goals

Development and coordination of National Interoperability Channels, State, Regional, Tribal and Local mutual aid channels;

Development of interoperable communications infrastructure;

Improvements of Public Safety Answering Points (PSAPs) toward Next Generation 911 (NG-911) development in accordance with New York State plan and vision;

Development of governance and SOPs;

Development of inventory of statewide communications resources (i.e. continuous participation in CASM-Communications Assets Survey and Mapping tool) and Tactical Interoperable Communication Plan (TICP) development, update and utilization.



2017 SICG Formula Grant

\$45 million available for the following purposes:

- Maintenance and sustainment expenditures for LMR systems;
- Technological updates and refresh of existing LMR systems, including equipment and software;
- Build-out of new larger-scale systems and infrastructure;
- Expansion of consortiums to currently non-participating members and finalization of agreements between new and current consortium members;
- Subsequent phases of projects previously initiated; including awards to counties pursuing additional build-out of their systems where coverage and frequencies are lacking;
- Implementation of technologies to further NG-911 development;
- Governance and SOP development.



2017 SICG Formula Grant Components

- Population (tiered approach)
- Land Area
- Current quantity of towers or structures owned/leased by county for county LMR operations:
 - Quantity of structures utilized for microwave connectivity
 - Quantity of structures utilized for LMR antennas
- List of National Interoperability Channels implemented on the infrastructure level in the county LMR system, (call signs and on how many tower those channels are installed)
- How many State Agencies are operating on a county system (list of agencies and copies of MOUs)
- Monitoring National Interoperability channels



2017 SICG Formula Grant Components (continue)

- How many users (county and total) are on the system
- Is county system P25
- County entered information into CASM and continuously updating the information (Communications Assets Survey and Mapping Tool)



Key Component: Non-Proprietary, Open Standards-Based Technologies

- Facilitate interoperability between systems and users
- Interoperable interfaces between systems (ISSI - P25 Inter RF Subsystem Interface)
- Technology-neutral specifications
- Maximized end-user choice: competitive market for implementations of the standard
- Does not lock the user into a particular vendor or group
- All new LMR systems required by SICG to be P25 Phase 2 compliant
- Increased implementation of P25 across the state



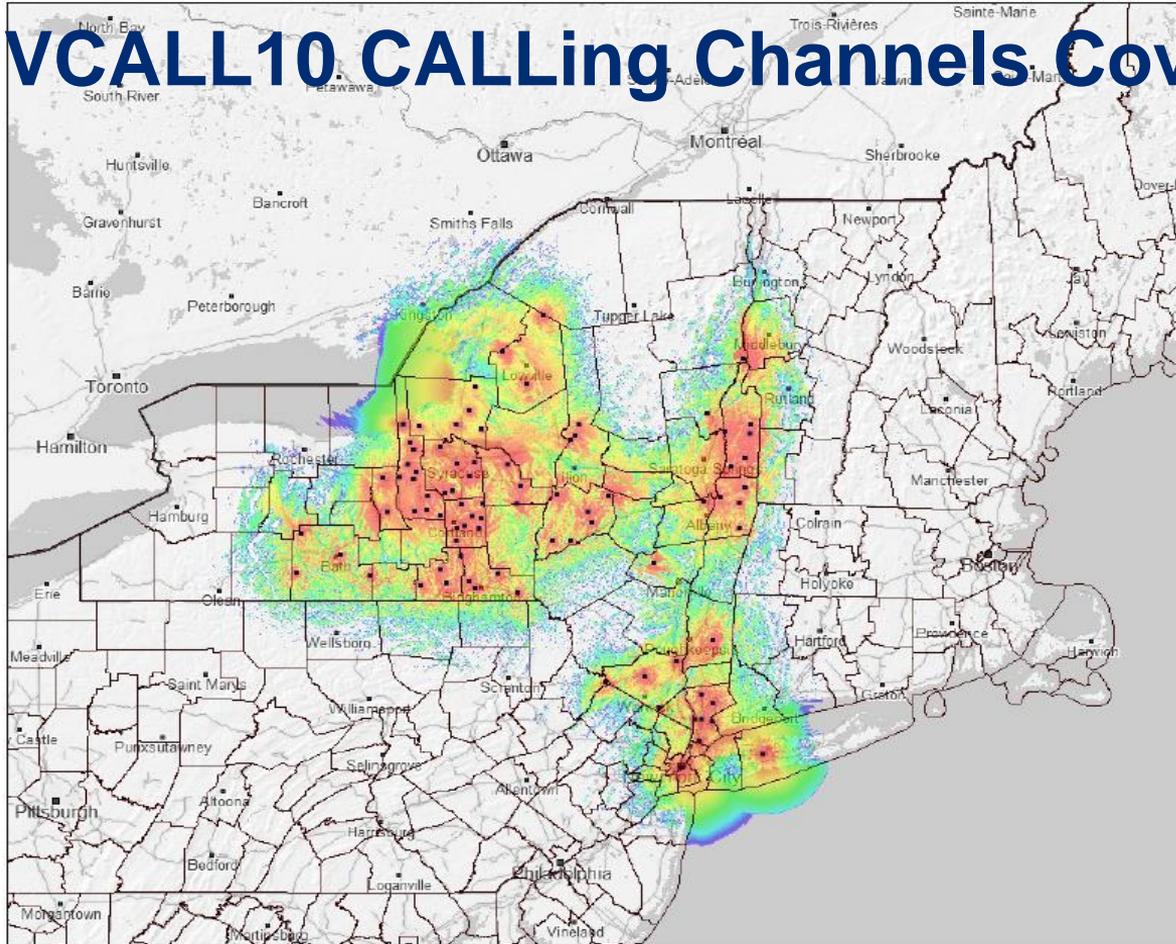
Interoperability Roadmap

- ❖ **Implement Hailing and Command Channels Statewide** - National CALLing Interoperability Channels (VHF-Lo, VHF-Hi, UHF and 700/800MHz) with 95% mobile coverage.
- ❖ **24/7 monitoring of CALLing channels** – monitoring is performed by state, regional interoperability centers and counties. This ensures that public safety responders, no matter where they travel in the State, have contact with a dispatcher to request help or instructions.
- ❖ **Backhaul enhancements** - communications network connectivity/backhaul within and between consortiums/regions (microwave, fiber, etc.)

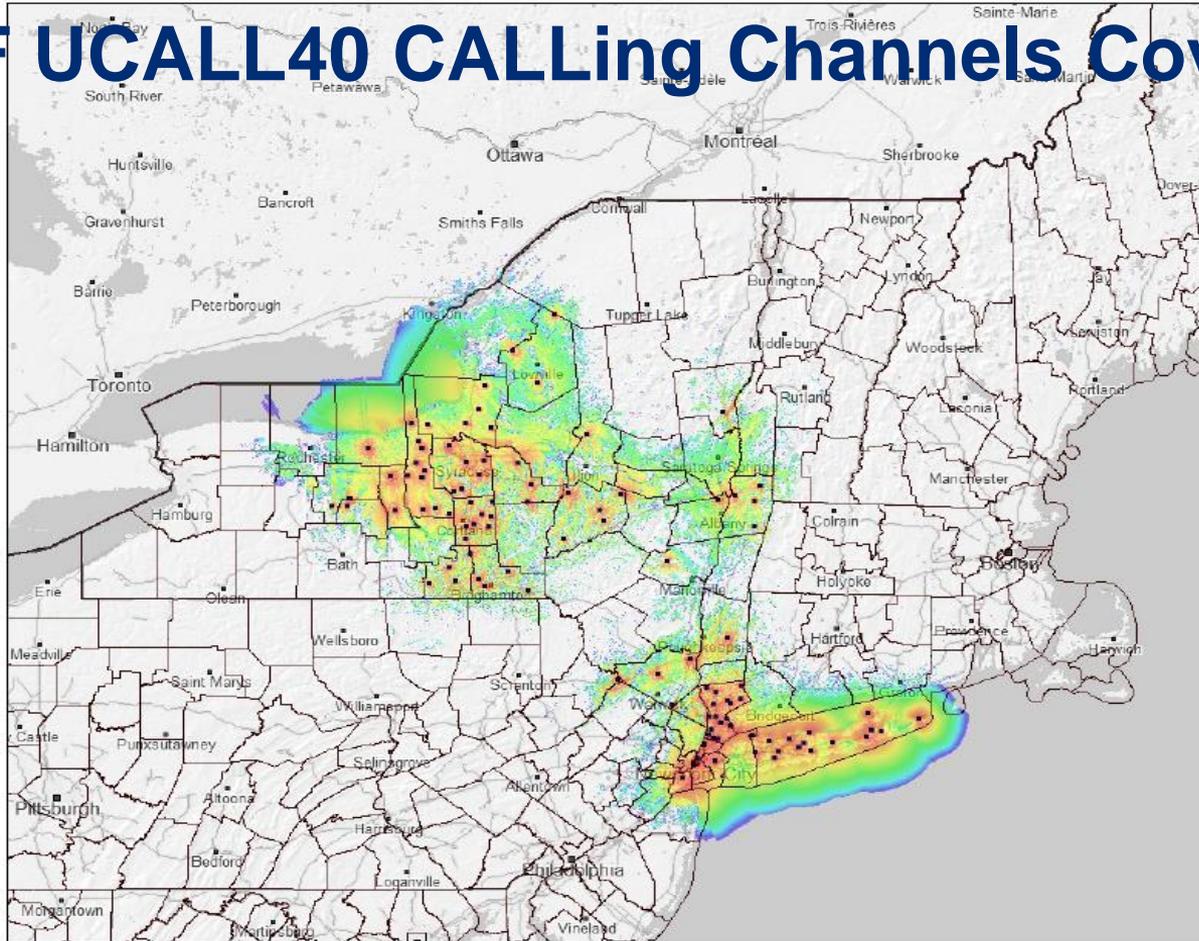
Interoperability Roadmap - Additional/Subsequent Enhancements

- ❖ Implementation of tactical channels (TAC-channels) on a statewide basis
- ❖ Continued implementation of CALLing and TACTical channels in subscriber equipment
- ❖ Development of governance – TICPs, FOGs, SOPs, MOUs
- ❖ Statewide engagement from state, consortiums, regions and counties to complete the Communications Asset and Survey Mapping (CASM) tool, and integration in to NY Responds.

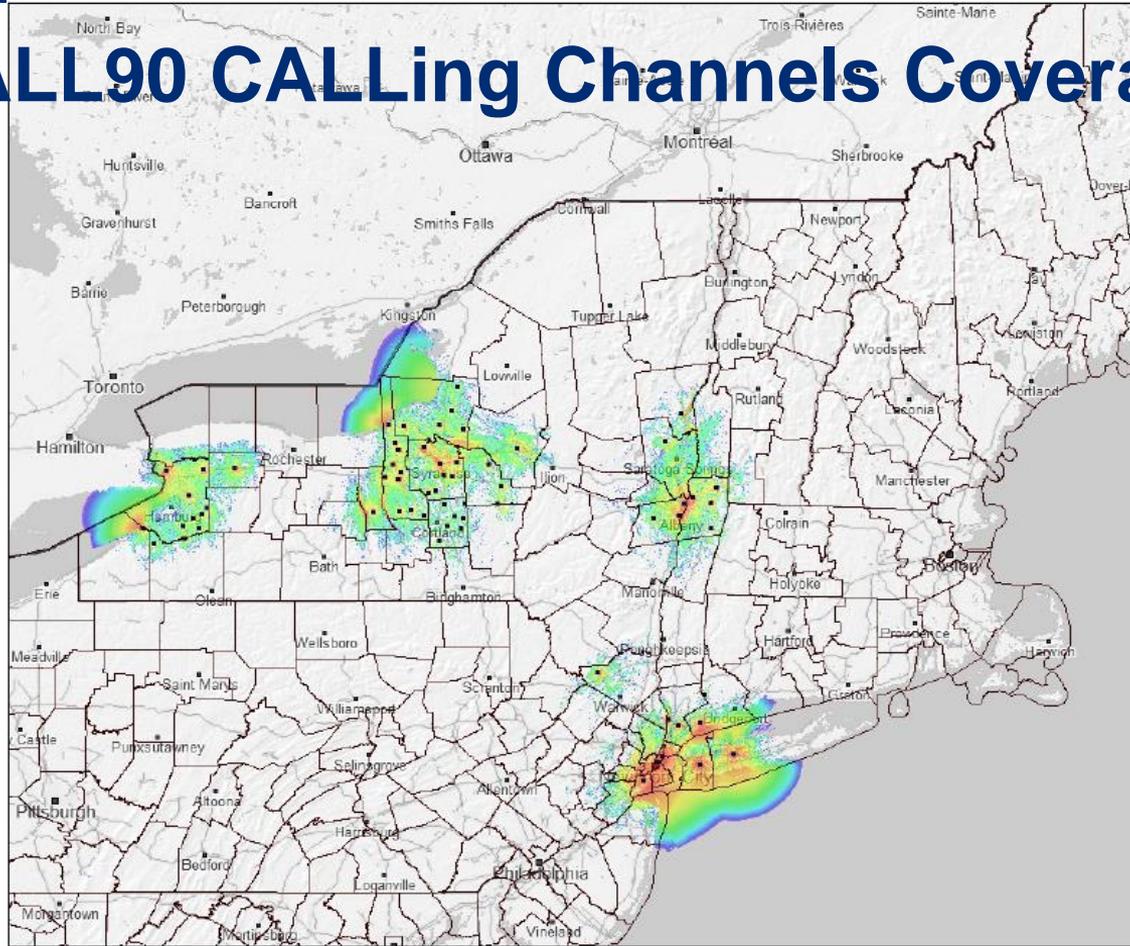
VHF VCALL10 CALLING Channels Coverage



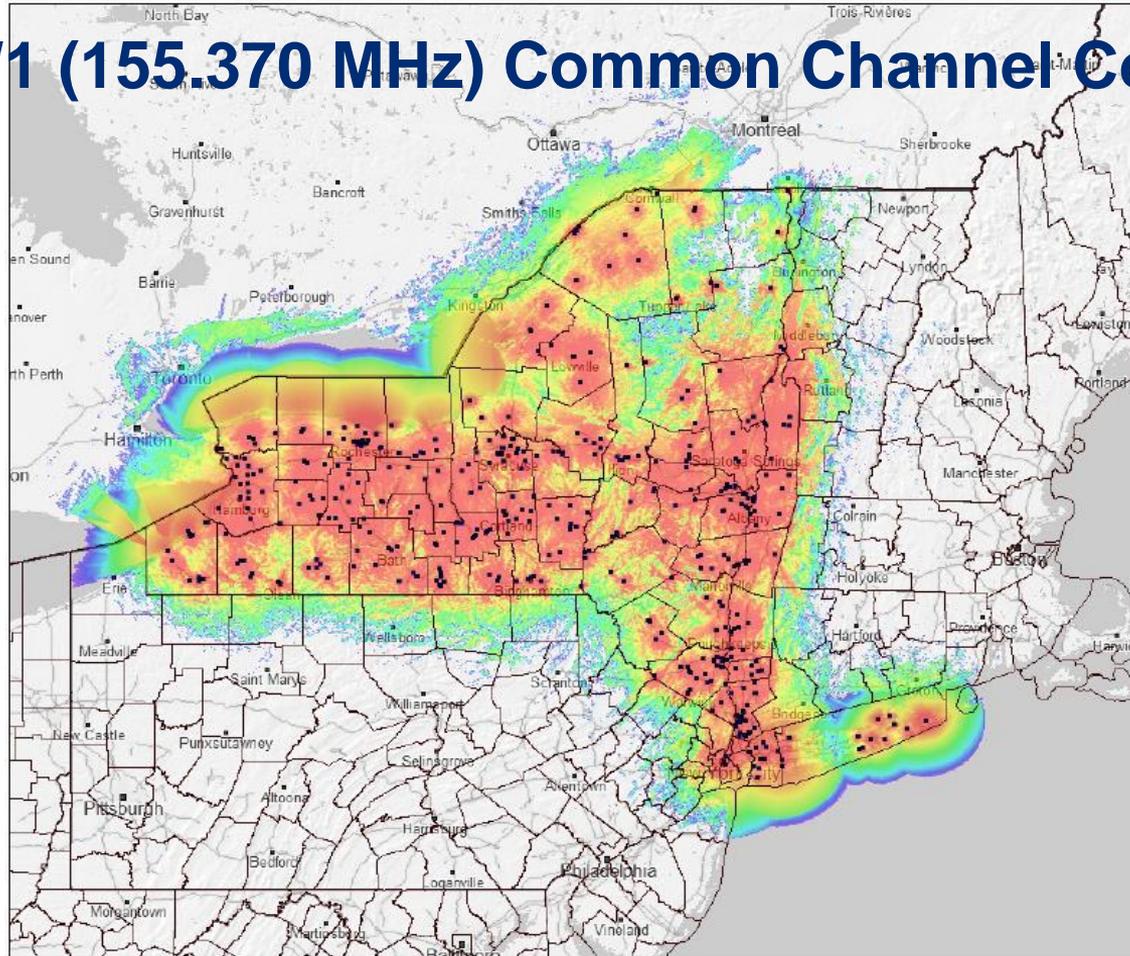
UHF UCALL40 Calling Channels Coverage



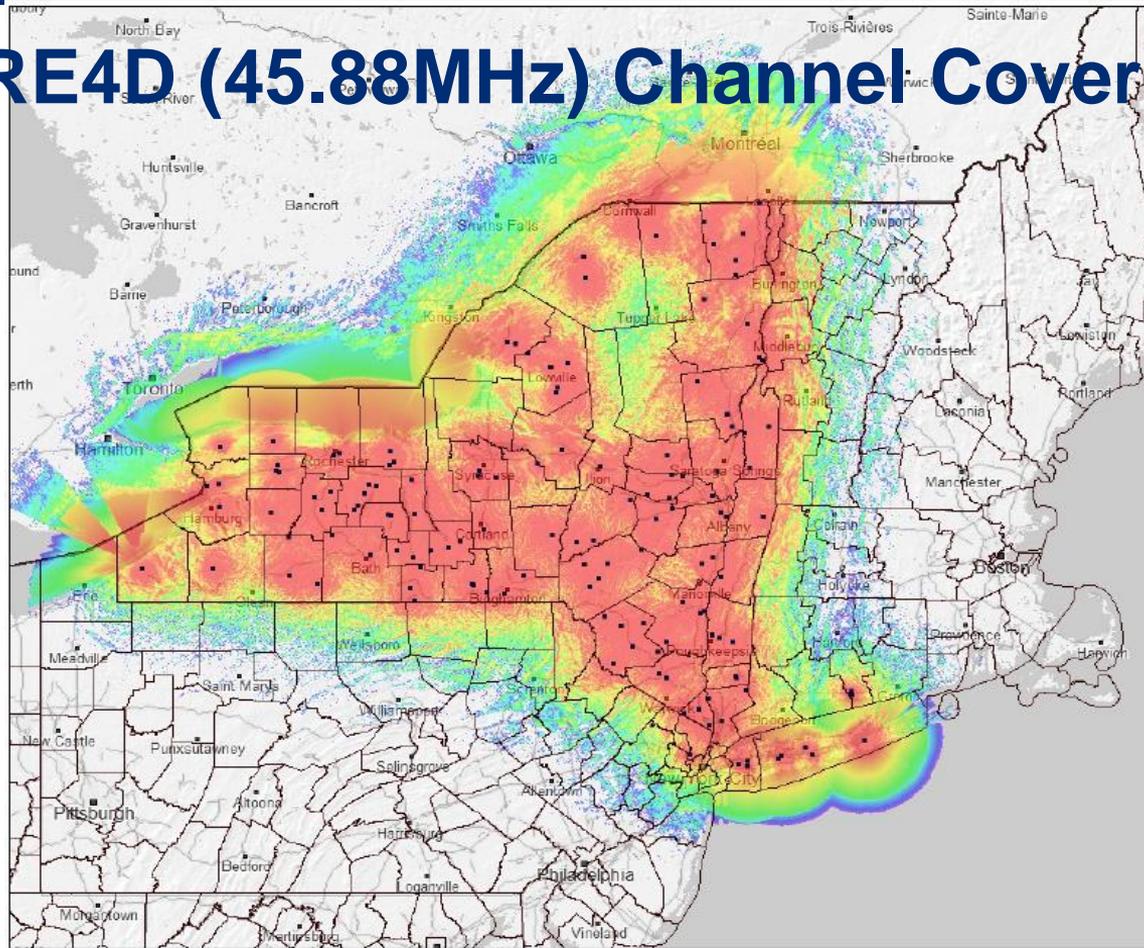
8CALL90 CALLing Channels Coverage



NYLAW1 (155.370 MHz) Common Channel Coverage



LFIRE4D (45.88MHz) Channel Coverage



Moving Ahead

- ❖ Implementation of National Interoperability Channels Statewide
- ❖ Backhaul enhancements
- ❖ Expand and document governance
- ❖ Implementation of SOPs
- ❖ Recurring training and exercises
- ❖ More radio system usage
- ❖ Continue non-proprietary, open standards based LMR systems
- ❖ Regional inter-connectivity

PSAP Operations Grant Goals

Improvements of Public Safety Answering Points (PSAPs) toward Next Generation 911 (NG-911) development in accordance with New York State plan and vision

Facilitate PSAP consolidation, regional initiatives

Development of Next Generation 911 (NG-911) technologies and the GIS data needed for NG-911

Development of governance and SOPs

Develop multi-jurisdictional PSAPs compatibility throughout the state and support statewide interoperable communications for first responders



PSAP Operations Grant

\$10 million available for the following purposes:

- Maintenance and sustainment of PSAP operations;
- CAD upgrades or replacement, including software and hardware that will perform integrated mapping functionality through a CAD interface;
- GIS enhancements;
- Backhaul connectivity of PSAPs;
- Implementation of technologies to further NG-911 development;
- Governance and SOP development.



PSAP Operations Grant Components

- County population
- Land area of the county
- County crime index
- PSAP call volume index
- PSAP incidents/events recorded in CAD index
- Text-to-911
- Implementation of Automated Secure Alarm Protocol (ASAP)



PSAP Operations Grant Results and Improvements

Results

- 20 counties have operational Text-to-911 services
- Spending rate has improved
- Improvements in connectivity between PSAPs
- Implementation of backup solutions

Improvements

- More NG911-related projects
- PSAP Grant Development Workgroup
- Precision in RFA definitions and collected data



NYS DHSES Grant Program

Budget submissions from Counties after Award announcements

- Contact your grant representative within 30 calendar days after award announcement (tip: prepare your budgets before the award to speed up contract development)

Grant Monitoring by DHSES

- Contact your grant representative

Grant Extension Request Form

- Contact your grant representative

Revisions to existing contracts

- Contact your grant representative

Any questions about the grant program (SICG or PSAP)

- Contact your grant representative



And More...

- ❑ General technical questions regarding LMR, PSAPs
 - Contact OIEC
- ❑ FirstNet related questions
 - Contact OIEC
- ❑ CASM database
 - Contact PJ Higgitt at OIEC (Paul.Higgitt@dhses.ny.gov, 518-322-4909)



SPEND

New Business

Presented by
Michael A. Sprague,
Director, Office of Interoperable
& Emergency Communications,
Chair, SIEC Board



Summary, Closing Remarks and Adjournment

Presented by
Michael A. Sprague,
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