FirstNet Board and Committee Meetings

June 29-30, 2016

FirstNet Board Meeting

June 30, 2016

State of Illinois Presentation

Don Kauerauf
Chairman of the Illinois Terrorism
Task Force (ITTF)

Illinois Emergency Management Agency

FirstNet Board Meeting
Chicago, IL
June 30, 2016

Illinois FirstNet

- Created 120-person multi-discipline, multi-jurisdictional membership forum
- Completed outreach in 82 counties, to 66 public safety agencies, at 31 state conferences, reaching over 15,000 public safety officials
- Conducted initial Illinois/FirstNet State Consultation meeting (July 2015)
- Submitted to FirstNet a report titled, "Illinois Submission Of Phase II Data to FirstNet for Analysis and Inclusion in the State of Illinois Plan."
- Issued RFI to understand the options for an "Opt-Out" decision
- Worked with FirstNet to clear incumbent Starcom21 users from the Band 14 spectrum allocation
- Created website to communicate statewide program goals and objectives to public safety officials (www.firstnet.illinois.gov)

Illinois' Vision for Interoperability

Illinois will have a continuing and sustainable interoperable and emergency voice/data communications environment in which all public service providers will be able to seamlessly communicate across disciplines and jurisdictions when necessary and appropriate.

Key Dates in Statewide Interoperability

- ***2003*** – Governor's statewide homeland security advisory committee develops first statewide interoperability strategy
- ***2004/2005*** – Procurement of state/local equipment to implement statewide strategy
- ***2006*** – Illinois' State Interoperable Emergency Communications (SIEC) formalized by statute
- ***2007*** – Illinois' Statewide Communications Interoperability Plan (SCIP) completed
- ***2011*** – 100% of Illinois' counties have approved Tactical Communications Interoperability Plan

Illinois' Major Comms. Initiatives

- Established STARCOM 21 (SC21) system, a statewide Project 25 (P25) 700/800 megahertz (MHz) interoperable trunked radio network
  - Developed emergency communication's Standard Operating Procedures (SOPs) for the use of the SC21 system, state and national interoperability channels and for the activation and deployment of Strategic Technology Reserves (STR)
- Conducted a gap analysis of governance structure and inventory of statewide interoperable equipment
- Provided outreach and education to over 15,000 public safety first responders regarding the development and implementation of FirstNet broadband initiatives

Communications Governance

- Comms ecosystem is evolving into a very complex environment – Systems didn't evolve with governance
  - IT and Data increasing importance
  - GIS
  - 911 integration
  - FirstNet
  - Software
  - Emerging Technologies
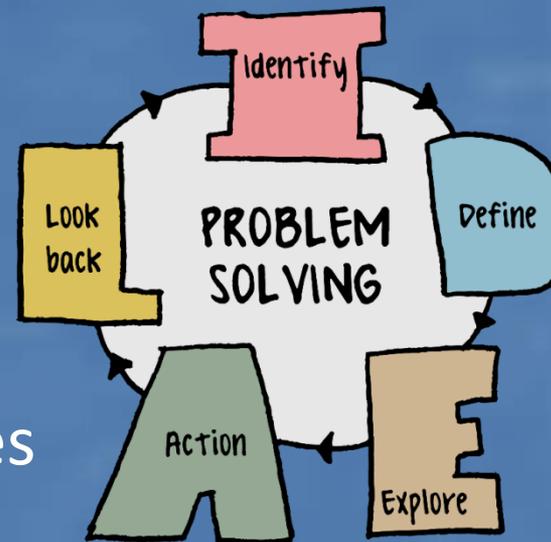
Description of Problem

- No overarching strategic oversight
- Governance systems mandated by law didn't evolve with technology or national priorities
- Complete for limited financial resources
- Multiple meetings, similar goals, same people attend
- Technology is 'easy' compared to governance

Challenges

- Sustained funding
- Statewide adoption
- Some governance 'silos' are statutorily enabled
- Existing governance 'authorities' may feel threatened
- Diversity in membership sometimes polarizes goals
- Difficulties in implementing policy and legislative changes

Illinois' Governance

- Current Situation
  - Passionate membership
  - Multiple structures
  - SWIC is common link holding it together
  - Too many tactical thinkers part of current structures

- Desired Outcome
  - Establish linkages between groups to make the overall structure more efficient
  - Legislative/Governor support and backing for the structure and related positions.
  - The entire structure reporting directly to one public safety state agency to foster a "one voice" perception among constituents and stakeholders.
  - Clear definition of group responsibilities to reduce redundancy and to provide functional clarity to constituents and stakeholders.
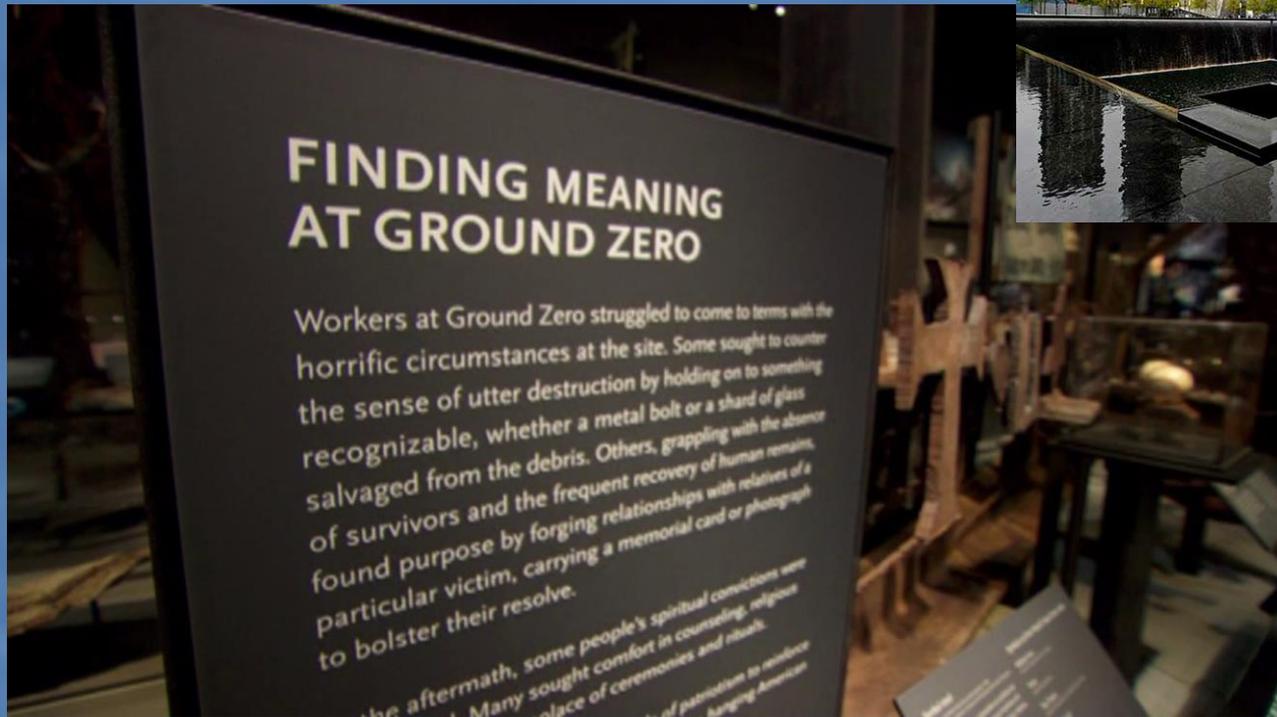
Project Goals

- Align and create linkages for comms governance issues
- Visibility within Illinois state leadership
- Streamline multiple governance structures
- Increase effectiveness of outcomes
- Staff with correct members so we can start to hand new and emerging technologies

Goal

Strategy

Tactics

Action Plans

Evaluate Outcome and Re-Assess

Illinois Emergency Management Agency

Why is it important?

FINDING MEANING AT GROUND ZERO

Workers at Ground Zero struggled to come to terms with the horrific circumstances at the site. Some sought to counter the sense of utter destruction by holding on to something recognizable, whether a metal bolt or a shard of glass salvaged from the debris. Others, grappling with the absence of survivors and the frequent recovery of human remains, found purpose by forging relationships with relatives of a particular victim, carrying a memorial card or photograph to bolster their resolve.

Contact Information

Donald G. Kauerauf, Chief
Bureau of Preparedness and Grants Administration
Illinois Emergency Management Agency
217/557-4831
Don.Kauerauf@illinois.gov

www.ready.illinois.gov

Public Safety Advisory Committee (PSAC) Update

Harlin McEwen
PSAC Chairman

PSAC Task Teams

Both task teams expect to conclude their meetings at the end of June 2016 and submit their formal recommendations by **July 28, 2016.**

Identity, Credential and Access Management (ICAM)

Captain Chris Lombard (Interagency Board), Chair

Local Control

Barry Fraser (National Association of Telecommunications Officers and Advisors), Chair

Identity, Credential and Access Management (ICAM) Task Team

FirstNet®

Goals

- Understand the issues that public safety agencies experience due to the lack of an interoperable ICAM solution
- Document guidance and recommendations for ICAM use in public safety
- Establish a framework for onboarding agencies into use of federated identity
- Examine potential working ICAM solution(s)

Members

- Chris Lombard, Chair
- Doug Aiken
- Todd Early
- Niles Ford
- Trey Forgety
- Jimmy Gianato
- Michael Jacobson
- Brent Lee
- Phil Mann

- Harlin McEwen
- Charlie Sasser
- Joe Sastre
- Tom Sorley
- Reid Vaughan
- Michael Gilmore (FBI/DOJ), non-PSAC member
- Tom Bojito (ICE/DHS), non-PSAC member

Local Control Task Team

Goals

- Provide recommendations to further define and refine the operational guidance of the local control application that FirstNet will provide
- Define the processes that support operations, which are not expected to be supported by the Local Control application directly

Members

- Barry Fraser, Chair
- Doug Aiken
- Larry Amerson
- Todd Early
- Len Humphries
- Chris Lombard
- Gary McCarraher
- Harlin McEwen
- Jonathan Olson
- Paul Patrick
- Mark Ryckman
- Tom Sorley
- John Sweeney
- Richard Taylor
- Michael Gilmore (FBI/DOJ), non-PSAC member
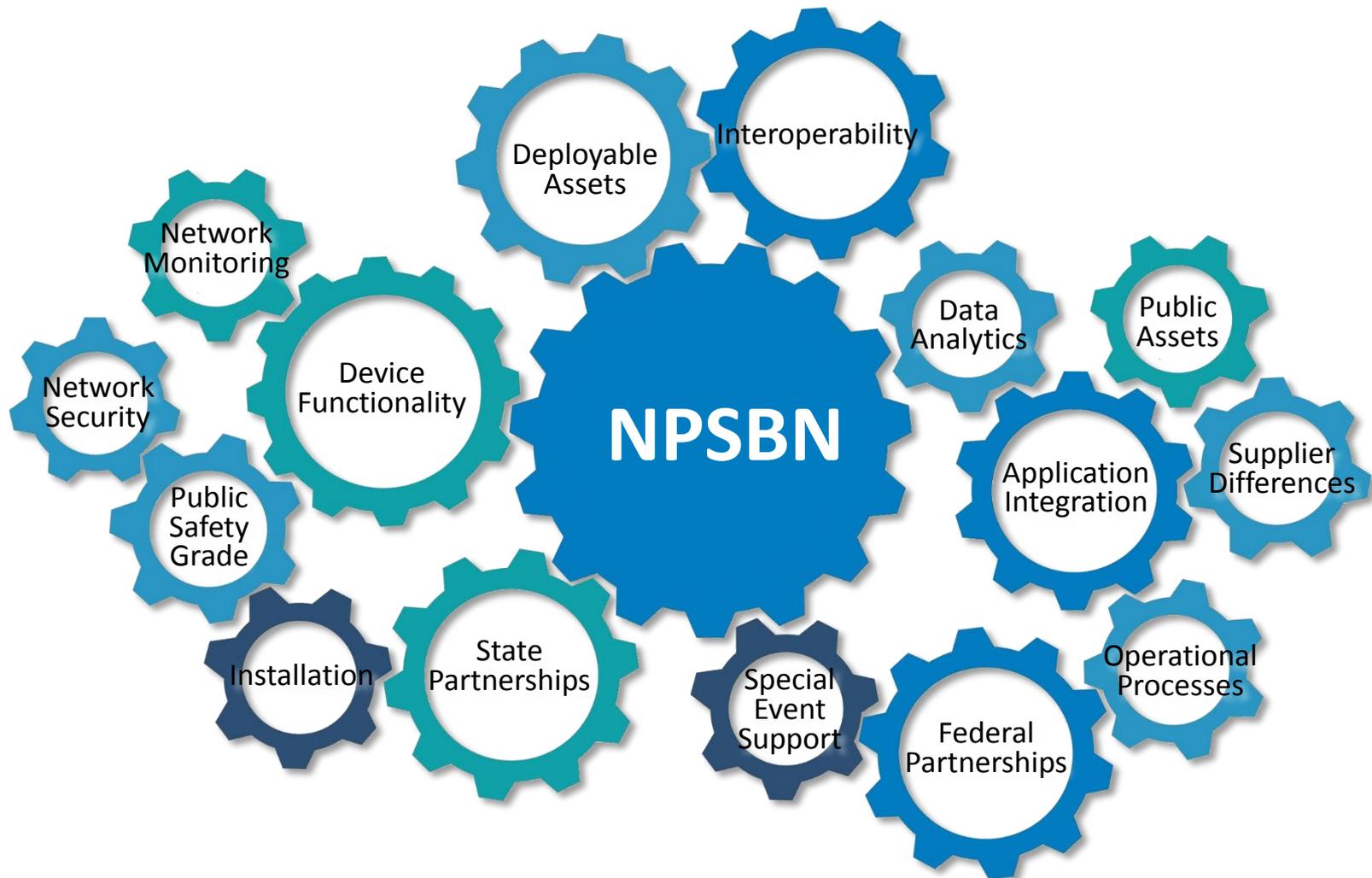- Tom Bojito (ICE/DHS), non-PSAC member

Early Builders Working Group (EBWG)

- Todd Early – Chair

- Darryl Ackley – Vice Chair

- Objectives:
  - Share progress on Key Learning Conditions (KLCs)
  - Share Informal Key Lessons (IKLs) learned
  - Openly discuss issues to leverage collective experience
  - Contribute to current PSAC task teams

Tribal Working Group

- Following the Spring SPOC Meeting, the TWG met to strategize how to address ongoing outreach challenges

- Goal: To ensure tribes are included in draft State Plans

- Key Activities include:
  - Review essential materials, e.g., Tribal Outreach Guidance for SPOCs and FAQs for Tribes
  - Identify additional tribal points of contact to encourage tribal participation in FirstNet planning

Federal Working Group (FWG)

Objectives	Timeline/Next Steps
▪ Engage on current and previous PSAC task team efforts ▪ Further integrate FirstNet's federal outreach and consultation activities with the PSAC's work ▪ Provide perspective on the operational experiences of federal public safety practitioners	▪ Invitations to the US Department of Homeland Security and US Department of Justice for representatives to join the PSAC – Appointed members would also serve as Co-Chairs of the FWG ▪ Targeted invitations to 10-15 federal public safety practitioners via Federal Agency Points of Contact (APOC) for appointment to the FWG

City of Chicago
Office of Emergency Management and Communications

Alicia Tate-Nadeau
Executive Director

City of Chicago
OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATIONS

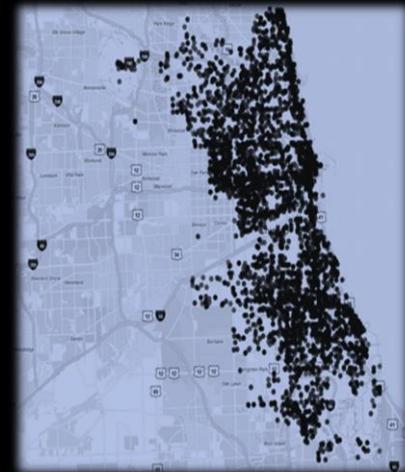**Alicia Tate-Nadeau**
Executive Director

Jonathan Lewin
Deputy Chief, Bureau of Support Services, Chicago Police Department

Dan Casey
Deputy Director, Public Safety Information Technology

Operational Areas

_____

- 9-1-1 Operations

- 3-1-1 City Services

- Office of Emergency Management (OEM)

- Traffic Management Authority (TMA)

- Public Safety Information Technology (PSIT)

Coordination Centers

- **Operations Center (OC)**
  - 24/7/365 public safety monitoring and coordination

- **City Incident Center (CIC)**
  - 24/7/365 public works monitoring and coordination

- **Emergency Operations Center (EOC)**
  - Information and resource coordination during large-scale events and incidents

- **Joint Information Center (JIC)**
  - Coordination of emergency public information to ensure clear and consistent communication during an emergency

- **Chicago Public Schools Security Center**
  - Co-located in the OEMC for increased information-sharing

Equipment Deployment

- 2,000 police mobile data terminals

- 450 fire mobile data terminals

- 5,000 public safety smart phones

- Network of 29,000 federated cameras

- Other cellular devices

- Multiple command vehicles

- Over 25,000 land mobile radios

- 4,000 GPS devices

Large-Scale Events

| Event	Attendance Figures
Chicago Marathon	45,000 runners, 2 million spectators
Chicago Blackhawks Rally & Parade	2 million
Air & Water Show (2 days)	2 million
Mag Mile Lights Fest	800,000-1 million
Bud Billiken Parade	1.5 million
Taste of Chicago (5 days)	1.4 million
Pride Parade	1 million
Numerous Large-Scale Events throughout the Summer	300,000-500,000
Neighborhood Festivals and Weekend Events	60-80 events per weekend at 5,000+

Jonathan Lewin
Deputy Chief, Bureau of Support Services, Chicago Police Department

Current Data Capabilities

- Computer-aided dispatch

- Pictures (TXT2TIP)

- CLEAR & CABOODLE

- In-car camera

- Automated License Plate Recognition (ALPR)

- Patient tracking
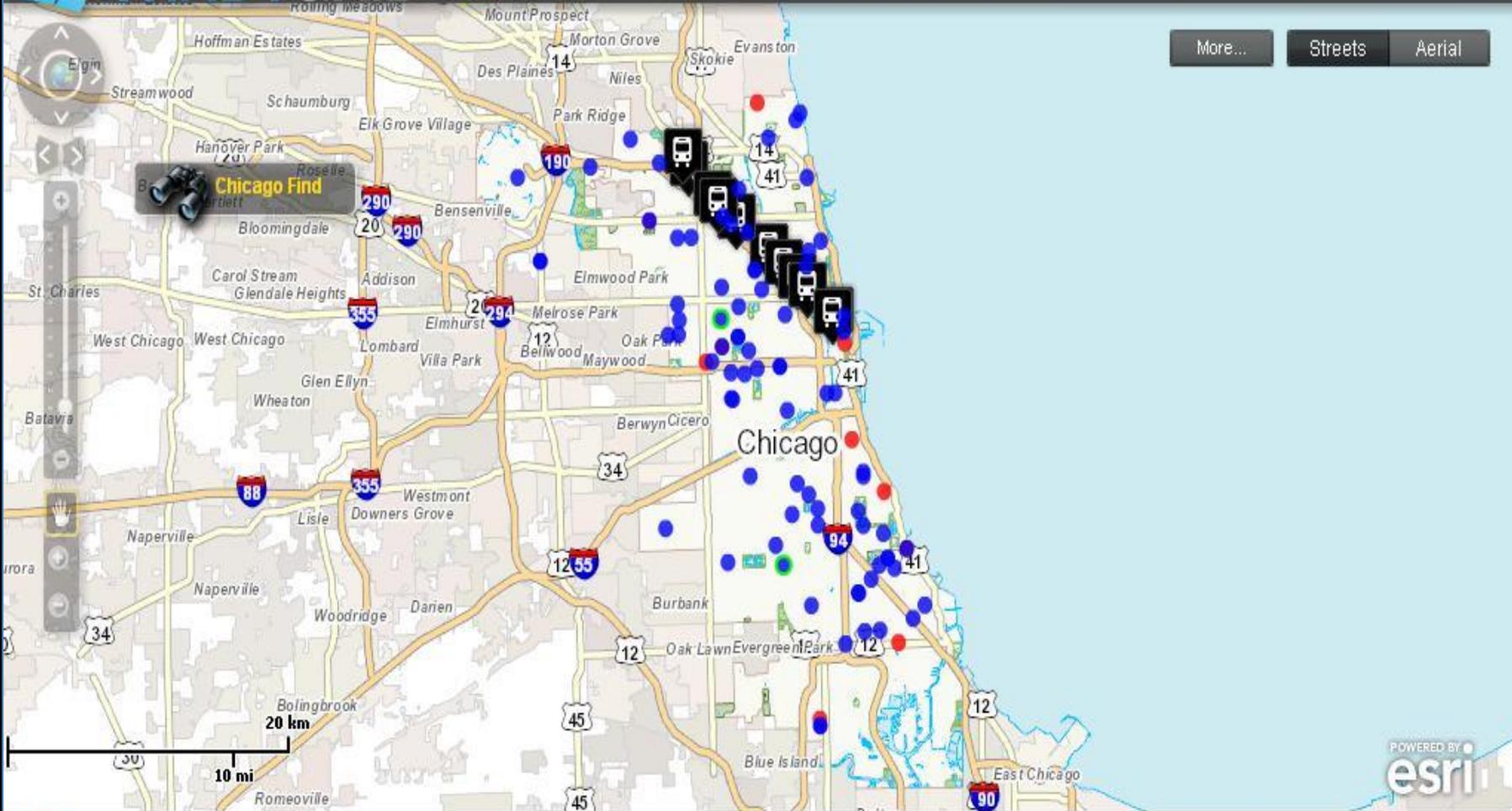
CLEAR Regional Platform

- 33,000 total users
  - 13,000 internal
  - 450 local, state, federal user agencies

- Processes arrests for all police departments in Cook County (120)

- Now in partnership with Cook County Sheriff to expand case management and incident reporting to the region

CLEAR System

CASE REPORTS

AFIS Mug Shots

ARREST REPORTS

911 CALLS

CONTACT CARDS

EVIDENCE

PROPERTY

WARRANTS

GANG FILES

CRIME TIPS

GUN REGISTRATION

CRITICAL FACILITIES

CRIMINAL HISTORIES

COURT DISPOSITION

PROBATION PAROLE

PERSONNEL

Troubled Buildings

Community Concerns

Citizen eTips

311 Complaints

Text2Tip

Telephone Hotlines

VIDEO

Beat Meetings

ALPR

Emails Phone Calls US Mail

On-Line Submission

Vehicle GPS

Summary: Major Tech Grants

DHS: Urban Area Security Initiative (UASI) 2014, 2015

     CLEAR infrastructure, mapping, cameras, radios, vehicle tech

DHS: Broadband Pilot

     Test broadband communications (LTE) in 007 District, Purdue

BJS: NCS-X (National Criminal Statistics Exchange- NIBRS), 2015, 2016

     NIBRS compliance

BJA: Body Worn Cameras, 2015

     1,500 BWCs in six (6) districts, University of Illinois

BJA: Smart Policing, 2015

     Expand predictive policing model, Illinois Institute of Technology

NIJ: Predictive Policing, 2013

     Develop predictive policing model, Illinois Institute of Technology
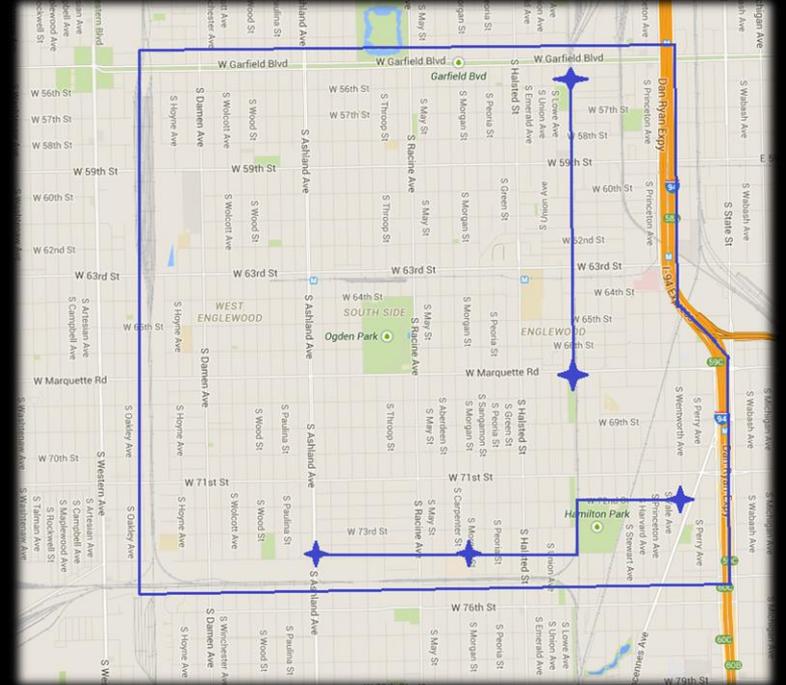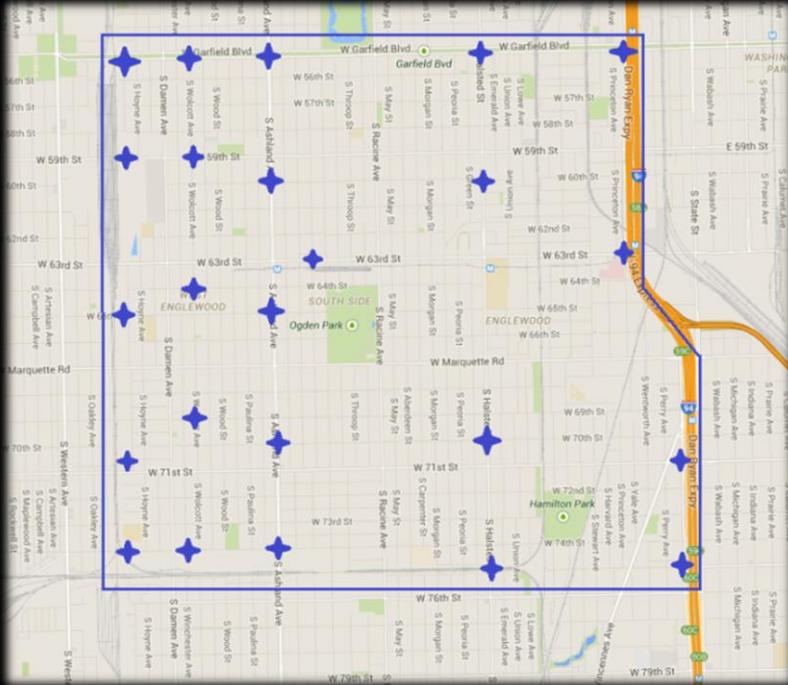
NIJ: Optimizing Use of Video Technology, 2014

     Test video analytics, develop camera deployment model, IIT

Dan Casey
*Deputy Director,
Public Safety Information Technology,
Chicago OEMC*
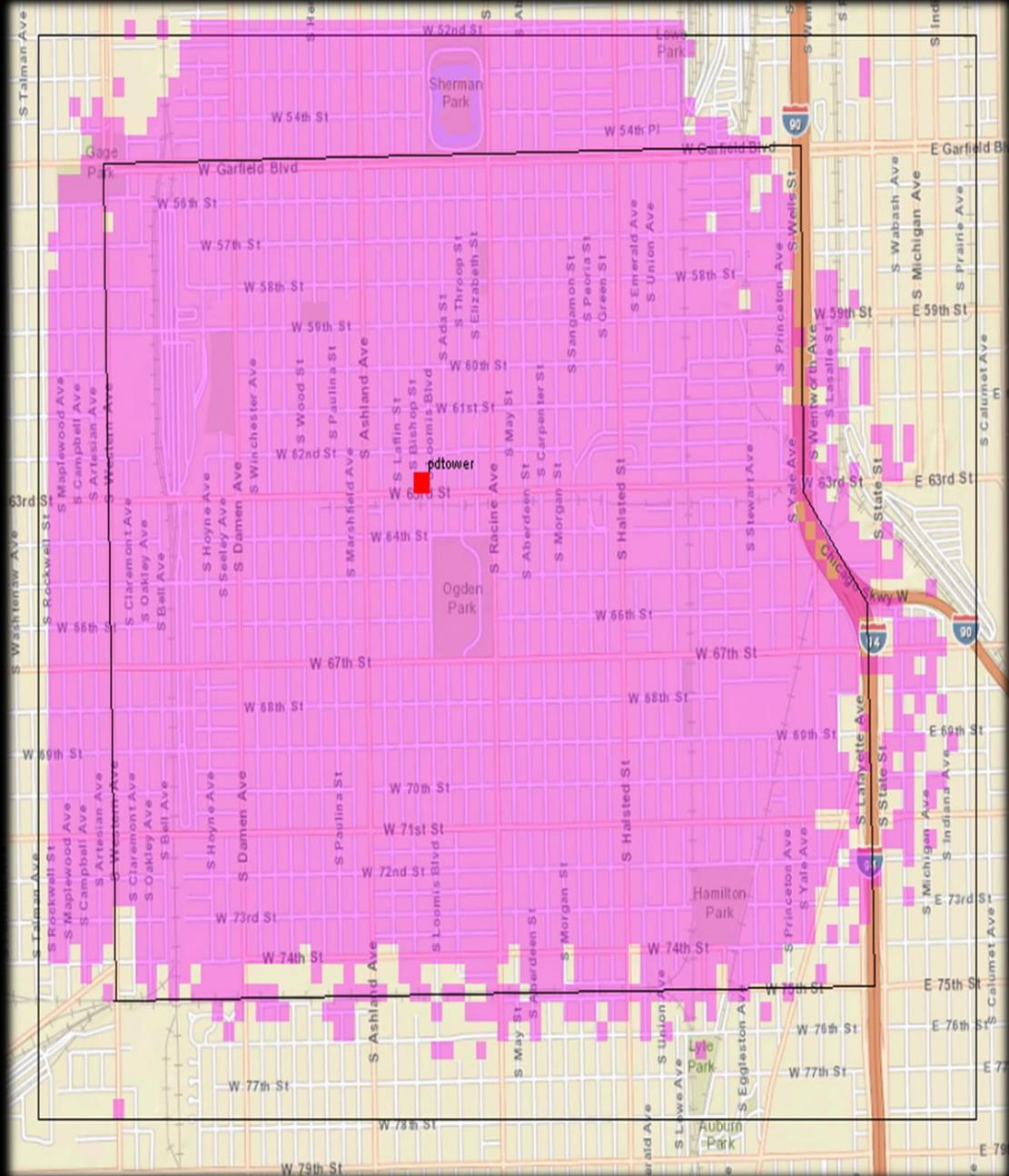
Objective Video Quality Measurement
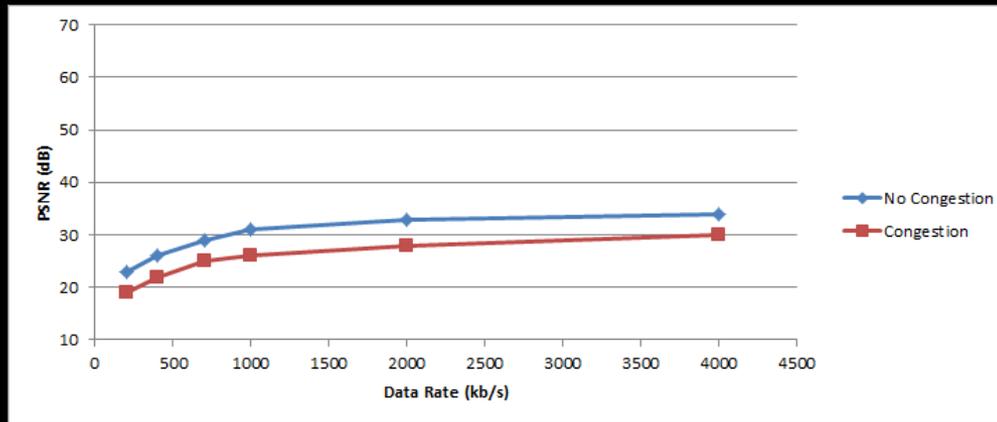
Subjective Quality Assessment of CPD Apps
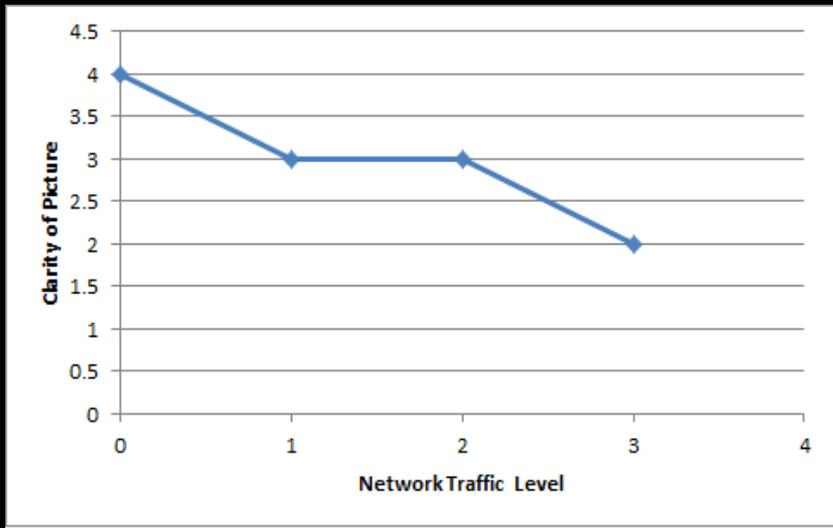
Network Performance Measurement
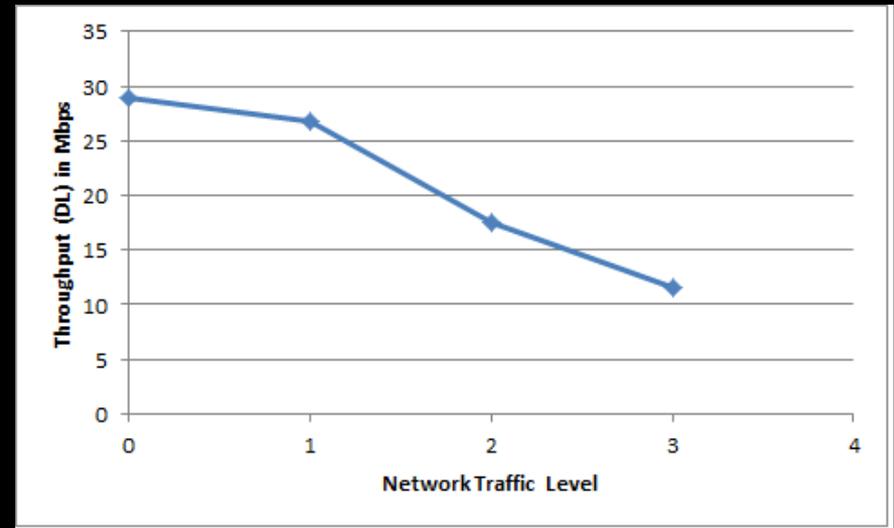
Chicago's Experience: Challenges

- Demand in high density crowd situations

- Urban canyon environment

- In-building coverage

- Maintenance and support

Opportunities:
What Chicago Can Offer FirstNet

_____

- Experience with a first responder only data network (RDLAP)

- Experience with scale

  - A perfect testbed
    - o NATO LTE
    - o LTE Pilot Program

Chicago's OEMC:
Building resilience through collaboration.

Board Resolutions

Committee Reports

Consultation and Outreach Committee

Rich Reed
User Advocacy

Spring 2016 In-Person SPOC Meeting Outcomes

Strong Attendance

- 175+ attendees from 55 states and territories
- Participation from 6 federal agencies, the PSAC, Tribal Working Group, NTIA, and PSCR

Strong Program

- Focused Sessions Provided
  - Clarity on the State Plans Process
  - Update on the RFP
  - Kick Off of Consultation Task Teams
  - Guidance on Tribal and General Outreach
  - Details on Research and Technology Efforts
  - Forum for Networking and Q&A
- Positive Feedback from Attendees

Consultation Progress

SPOC Engagement Meeting
- To Be Scheduled, 1
- Held, 55

Governance Body Meeting
- To Be Scheduled, 19
- Scheduled, 13
- Held, 24

CTTs
- Compiled Report (Q4)
- CTTs (Q3) — 2 Held, 8 Scheduled, 3 To Be Scheduled
- SPOC Meeting Discussion (Q2)
- CTT Kickoff Webinar (Q1)

Executive Consultation Meeting
Executive and Governor Engagements
- To Be Scheduled, 38
- Held, 18
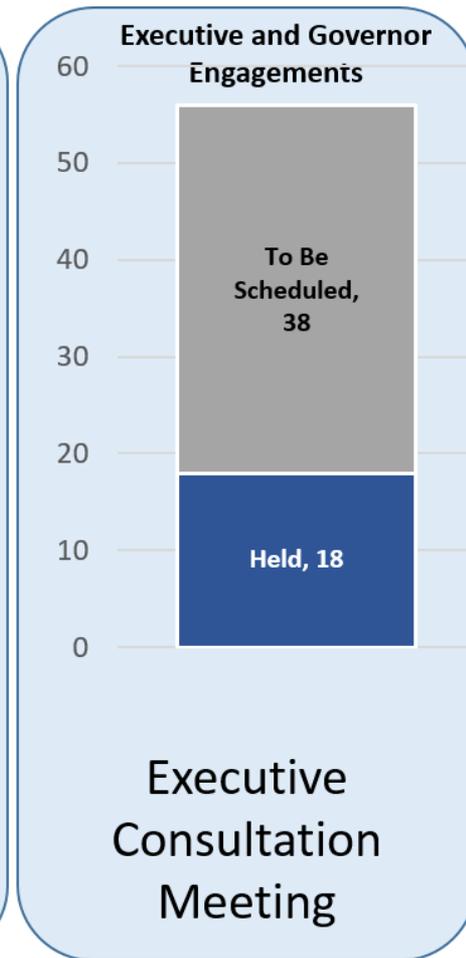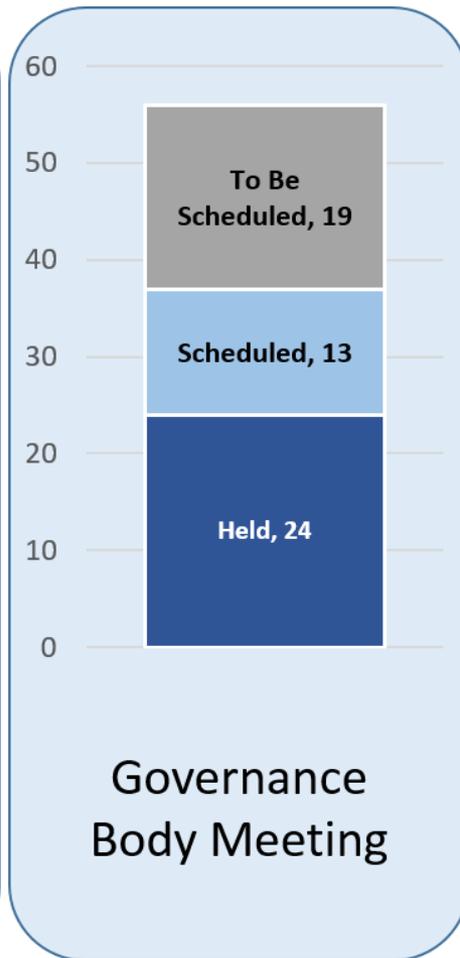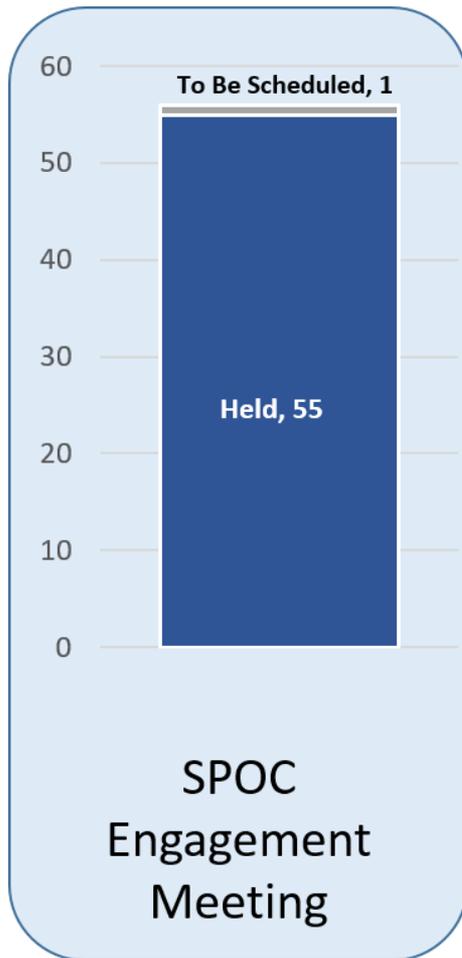
State Plans Development and Delivery

FirstNet Contract Award

Develop State Plans & Prepare for Delivery

Feedback Received

Final Prep for Delivery to Governor

State Plan Delivery to Governor
(90 Day Review)

Nov 2016   *Set during contract negotiation*   *Fixed timeframe*   *ASAP*

Release of Draft State Plans

State Plan Draft Review

June 2016

51

Finance Committee

Kim Farington
Chief Financial Officer

FirstNet Overall Cumulative
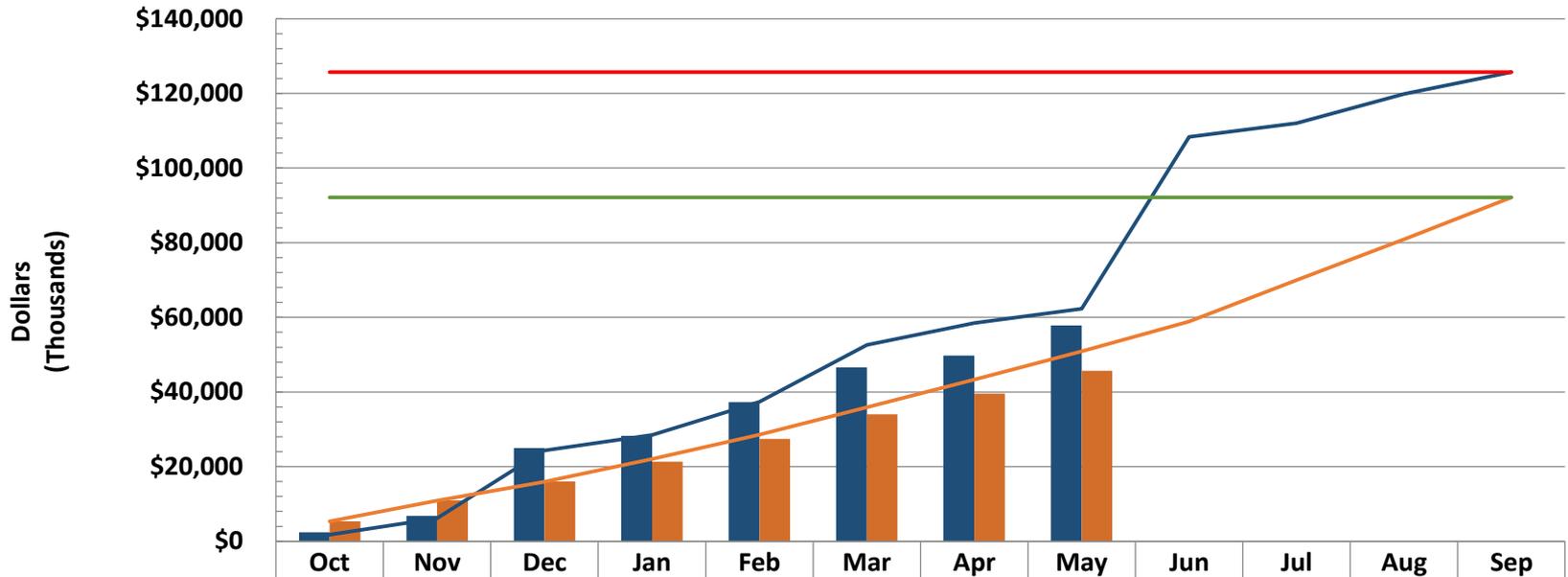
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Actual Obligations	2,446	6,805	24,994	28,209	37,300	46,565	49,761	57,796	-	-	-	-
Actual Expenses	5,354	10,945	16,006	21,348	27,410	34,032	39,578	45,700	-	-	-	-
Budgeted Obligations	1,772	6,131	24,320	28,526	37,353	52,605	58,459	62,312	108,353	111,984	119,846	125,734
Budgeted Expenses	5,342	10,923	15,972	22,072	28,581	35,869	43,345	50,938	58,881	69,935	80,884	92,104
Total Obligations Target	125,734	125,734	125,734	125,734	125,734	125,734	125,734	125,734	125,734	125,734	125,734	125,734
Total Expense Target	92,104	92,104	92,104	92,104	92,104	92,104	92,104	92,104	92,104	92,104	92,104	92,104

% Obligated = 46.0%   % Expensed = 49.6%

FY 2017 Budget Formulation Timeline

Category	Task	Milestone
FY 2017 Budget Formulation	CFO Develop Budget Guidance & Template for Data Collection	Apr 8th
	BUs Submit Completed Budget Template to CFO	May 6th
	CFO Budget Deep Dives Held with BUs	May 20th
	Final Budgets Reviewed by CFO	May 30th
Budget Briefings	BU Proposed Budgets Reviewed by President & C-Levels	Jun 22nd
	President & CFO Recommend FY17 Budget to CEO	Jun 22nd
	CEO Holds Deep-Dive Budget Review with Senior Leadership	Jul 11th
	FY17 Budget Recommendation Finalized	Jul 20th
	Budget Recommedation presented to Finance Chairperson	Jul 22nd
	Budget Recommendation presented to Finance Committee	Aug 1st
Final Budget	Budget Presented to the Board for Approval	Aug 26th

5-Year Strategic Plan

- 2016-2020 Strategic Plan
  - Four strategic goals and seventeen objectives
  - Key activities that help us achieve the objectives
  - Key performance indicators (KPI's) and metrics
  - Captures critically important strategic human capital initiatives
  - Performance management and evaluation planning

- Provides strategic direction for FirstNet as an enterprise beyond the NPSBSN contract award and Strategic Roadmap milestones

Partnerships

Stakeholder Engagement

Innovation

People & Organization

Linking Plan to Performance
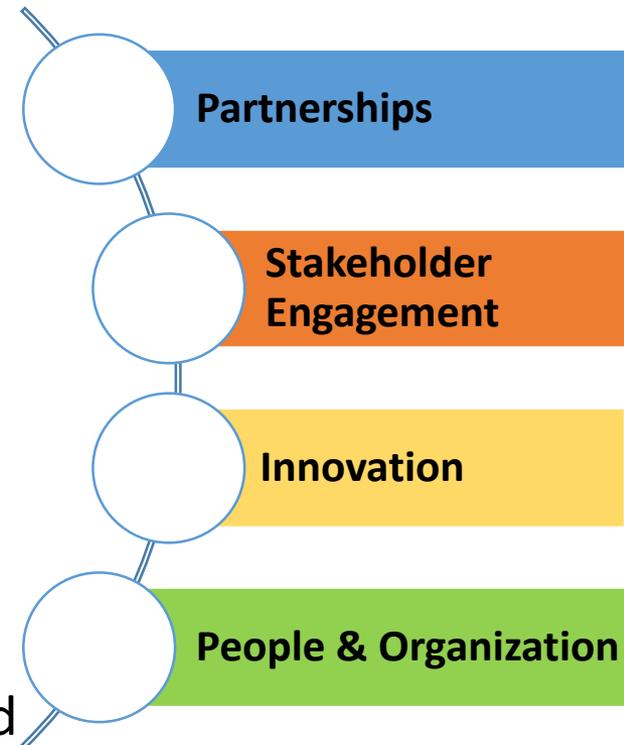
- Strategic plan and supporting operational plans help us measure performance across the organization
  - Includes the management of the NPSBN contract, but goes beyond it
  - KPIs reflect critical activities within FirstNet
  - Facilitates measurement of success for those activities

- Performance management facilitates better decision making
  - Increased insight to resource allocation and needs
  - Captures linkages and coordination of effort across business units
  - Validates that activities work in unison towards common goals and objectives
  - Provides transparency and enables accountability

Technology Committee

Jeff Bratcher
Chief Technology Officer

FirstNet Network Policies

- The Middle Class Tax Relief and Job Creation Act of 2012 requires FirstNet to "establish network policies"

- FirstNet policies to include:
  – Core and RAN technical and operational requirements
  – Network management standards and procedures
  – Back office and user requirements (e.g., billing)
  – Monitoring and compliance requirements regarding network management, operation, and use
  – Public safety and user training

- Initial policy set be released in conjunction with the delivery of State Plans

FirstNet's Boulder Laboratory

- Boulder Lab cleared for construction, to be completed December 2016

- <u>Requesting that Partner provide</u> the production environment, i.e., the LTE network equipment, devices, applications, and services such as:
  - LTE core network capability
  - Local Band 14 radio base stations
  - Ruggedized handheld devices and vehicle modems
  - Mission Critical services - Quality of service, priority, preemption

FirstNet's Boulder Laboratory

- FirstNet provides:
  - **Quality Assurance** prior and during deployment (IOC/FOC milestones), e.g., verifying network resilience to a hardware failure or the priority of public safety users during incidents
  - **Validation and Verification** of NPSBN features and functions including end users' experience with devices and applications, e.g., a firefighter's use of an application with gloved hands
  - **Band 14 Device Approval** activities including ensuring security, radio performance and resiliency, and the safety of devices used on the NPSBN
  - **Acceptance Testing** of Partner-provided capabilities, e.g. local control solutions, identity and credentialing access management
  - **Future NPSBN application development environment**

Governance and Personnel Committee

Mike Poth
Chief Executive Officer

Evolving From a Start-up To Public-Private Partnership

Start Up Priorities
- $7 Billion in Funding
- Roadmap to RFP
- Consultation, Outreach, Education
- Budget & Staffing

Recent Progress
- ☑ Draft RFP
- ☑ NTIA & FCC Synergies
- ☑ State, Territory, and Federal Outreach
- ☑ RFP Issued / Evaluation

Outreach

RFI/RFP release

Public Notices
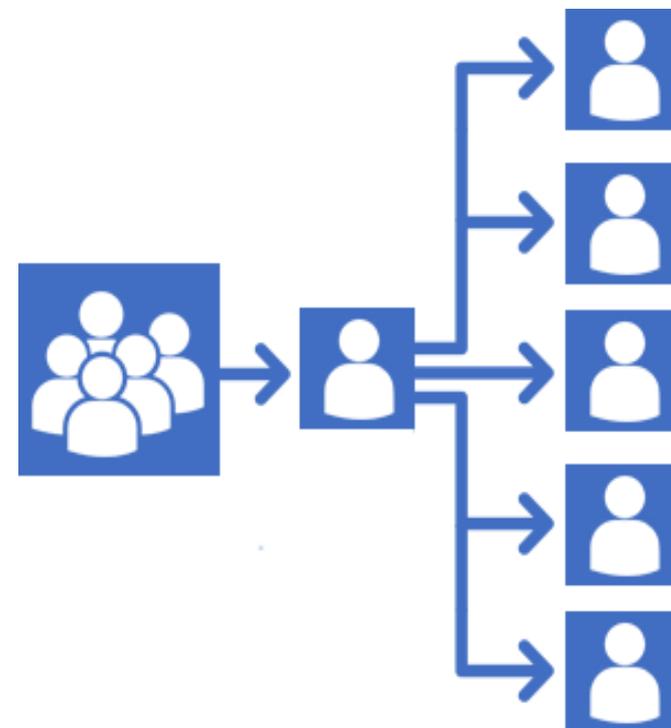
Consultation

Data Collection

FY 17-18 Planning
- Lean, Innovative, Independent
- Drive Creativity and Flexibility

Organizational Structure &
Human Capital Plan
- Key FirstNet Roles and Responsibilities
- Validation, Verification, Administration

Partnership Structure
- Ensure Financial Stability
- "Win-Win-Win" Business Model

Positioning for Partnership

Key Tenets

- Partnership Support and Integrated Coordination

- Maintain Lean, Cost Effective Structure

- Maximize Revenue for Maximum Network Reinvestment

- Innovation, Ingenuity, Urgency

CEO Update

Mike Poth

RFP Update

Top 3 Takeaways

1. **Evaluation Underway**

2. **Targeting November Award**

3. **Competitive, Fair, Balanced Deal For Public Safety | FirstNet | Partner**

Operation "ON"

Positioning FirstNet for **Partnership** and
the Network for **Deployment** and **Adoption**

- **The Organization**
  - Strategic Plan
  - Chief Customer Office, Network Program Office
  - Risk Management Enterprise
  - World-Class Lab

- **The Network**
  - State Plans
  - Spectrum Relocation
  - Network Policies