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# Outreach Plan

In addition to the below education and outreach activities, FloridaNet is planning ongoing communications with Local, State and Tribal representatives that includes:

- Regular newsletter communications of key actions and events
- A YouTube video on FloridaNet
- Continued development and enhancement of our website, forums and social media

We also will continue to support and provide State and National workshop participation

- FloridaNet Local, State and Tribal members participating in key national workshops, conferences and events to stay up to date on national developments
- Ongoing coordination with the Region IV states via regular meetings
- Develop a FloridaNet speakers bureau providing speakers and information to support all state-wide association gatherings in Florida

Specific SLIGP workshops under Phase I

- Coverage workshops to engage Local, State and Tribal representatives on LTE coverage, contract vehicles and current users
- Continued development of a governance with a focus on local control

Included In This Section:

- [Regional Workshops](#)
  - June 2013
    - Presentation
    - Meeting Summary
    - Meeting Minutes
  - July 2013
    - Presentation
    - Meeting Minutes
- [Listening Sessions](#)
  - Presentations
    - FirstNet
    - FloridaNet
    - Data Sharing
    - Participation
  - Sessions: February 2014
    - Jacksonville, FL

- 
- Tallahassee, FL
  - Sessions: March 2014
    - Pensacola, FL
    - Deer Field Beach, FL (West Palm Beach)
    - Tampa, FL
    - Punta Gorda, FL
    - Miami, FL
    - Orlando, FL
  - Sessions: April 2014
    - WebEx
  - [Website](#)
    - FloridaNet.gov
    - Google Analytics
  - [Other Outreach](#)
    - Brochure
    - Video
    - Senate Appropriations Committee

# Regional Workshops

June 26-27, 2013 – Memphis, TN

Presentation: Vision for the Future *(For document, see Exhibit 33)*



**FirstNet™**  
U.S. DEPARTMENT OF COMMERCE

**Vision for the Future**  
Regional Workshop  
June 26, 2013

**Craig Farrill**  
Acting CTO  
FirstNet Board Member

**Bill D'Agostino**  
FirstNet General Manager

June 26, 2013 1

Meeting Minutes *(For document, see Exhibit 34)*

Minutes – FirstNet State, Territorial, Tribal and Local Consultation Meeting		
June 26 and 27, 2013 (9am – 4pm) (9am – 12:30pm)	Memphis, TN	FirstNet Meeting
<b>FACILITATORS</b>	Thomas MacLellan - Director of Economic Security and Public Safety Division of the National Governor's Association <b>Craig Farrill</b> - FirstNet CTO and Board member <b>Bill D'Agostino</b> - FirstNet General Manager	
<b>FLORIDA ATTENDEES</b>	1. Julie James, FL Department of Highway Safety and Motor Vehicles 2. Ashley Bertram, Tennessee State of Florida 3. Storm Peak, City of Orlando 4. John Ford, FL Department of Management Services 5. Cindy East, Miami-Dade County 6. William Hogg, Division of Emergency Management 7. Robb Foster, Bay County Sheriff's Office 8. David Hall, University of Florida 9. Mark Pineda, FL Department of Law Enforcement 10. Brett Redden, Program Manager	
<b>OBJECTIVES</b>	1. Team participated in a two-day meeting hosted by the FirstNet Board, the National Governor's Association, and NITA to better understand FirstNet. 2. All participants and Craig Farrill gave presentations on the design and future of FirstNet. 3. The participants were able to ask questions of the board members after the presentations. 4. States were given break-out time to raise questions and concerns that were shared in an open forum with the board. 5. All questions were answered candidly.	
<b>MINUTES</b>	<b>Primary Achievements/Outcomes:</b> <ul style="list-style-type: none"> <li>FirstNet will allow 100% interoperability across states for DATA networks.</li> <li>Cost will be same or lower than existing data plans.</li> <li>Large data platform.</li> <li>There will be federal partners using FirstNet.</li> </ul> <b>Data Platform:</b> <ul style="list-style-type: none"> <li>Reduced data costs for state, tribal and local agencies</li> <li>Data plan meeting with cellular carriers will be eliminated or greatly reduced and replaced with FirstNet.</li> <li>Provides the same or improved coverage and robustness for data systems.</li> <li>Will be using national security standards – security was a huge issue for the states and assistance was given that it is priority use for FirstNet.</li> </ul> <b>Memoranda of Understanding:</b> <ul style="list-style-type: none"> <li>Developed with each existing state, tribal, and local public safety user</li> <li>Each will be based on what resources are currently available to be used for the build-out of FirstNet platform.</li> <li>User-by-user decision that FloridaNet team is being asked to undertake.</li> <li>Issues to be addressed:               <ul style="list-style-type: none"> <li>What or how will equipment be maintained?</li> <li>Is there compensation for local maintenance?</li> <li>Is there a reduction of cost or credit for providing infrastructure of resources to FirstNet?</li> </ul> </li> </ul>	



**July 31, 2013 – Tallahassee, FL and WebEx**

Presentation: Florida Public Safety Broadband Coverage Objectives *(For document, see Exhibit 35)*

## Florida Broadband Coverage Objectives

*Coverage Workshop*

DHS Office of Emergency Communications

July 31, 2013



FOR OFFICIAL USE ONLY

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Meeting Minutes *(For document, see Exhibit 36)*

Minutes – Florida Broadband Coverage Workshop			
Wednesday, July 31, 2013 10:00 AM – 3:00 PM Eastern	Tallahassee, FL		
	Teleconference		
<b>FACILITATORS</b>	Dick Tenney, Homeland Security Brett Boston, BaseCamp Karl Green, Facilitator		
<b>ATTENDEES</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>IN-ATTENDANCE</b>            1. Director Julie Jones, DHS/MV            2. William Stoye, Emergency Management            3. John Ford, DMS            4. David Nye, University of Florida            5. Brett Boston, BaseCamp-Group Solutions            6. Penny Sincannon, FDLE            7. Richard Butgeriet, DMS            8. Chuck Lang, AT&amp;T            9. Tom Lewis, Florida Power &amp; Light            10. Lee Moreno, Motorola            11. Jeff Purdy, Jacobs Engineering            12. Jay Sexton, Georgia Tech Research Inst.            13. Jennifer Sims, Alcatel-Lucent            14. Brian Whaley, Motorola            15. John Woodard, Dept. of Corrections            16. Major Steve Williams, FHP            17. Major Ryan Burchnell, FHP            18. Dean Fox, DHS/MV Grant Manager            19. Kathy Cruce, DHS/MV Grant Specialist         </td> <td style="width: 50%; vertical-align: top;"> <b>ON-LINE</b>            20. Bobby Brown, Seminole Tribe            21. Cindy Cast, Miami-Dade County            22. Rob Fortner, Bay County SO            23. Foster Harbin, Harris Corporation            24. Lynn Latham, Gulf Power            25. Ricwan M. Mir, Alcatel-Lucent            26. Terry Nehring, City of Tampa            27. Rich Steiner, Orange County PS  <b>WALK-INS</b>            28. Tim Barrentine, RCCommunications            29. Christopher Campbell, CGI, Inc.            30. Treville Doumle, Alcatel-Lucent            31. Tabitha Hunter, DMS            32. Robert Little, Emergency Management            33. Tom Maddox, Verizon            34. Peter Pardaris, Alcatel-Lucent            35. Greg Prescott, DMS            36. Carlton Wells, DMS            37. Doug Whitfield, DMS         </td> </tr> </table>	<b>IN-ATTENDANCE</b> 1. Director Julie Jones, DHS/MV 2. William Stoye, Emergency Management 3. John Ford, DMS 4. David Nye, University of Florida 5. Brett Boston, BaseCamp-Group Solutions 6. Penny Sincannon, FDLE 7. Richard Butgeriet, DMS 8. Chuck Lang, AT&T 9. Tom Lewis, Florida Power & Light 10. Lee Moreno, Motorola 11. Jeff Purdy, Jacobs Engineering 12. Jay Sexton, Georgia Tech Research Inst. 13. Jennifer Sims, Alcatel-Lucent 14. Brian Whaley, Motorola 15. John Woodard, Dept. of Corrections 16. Major Steve Williams, FHP 17. Major Ryan Burchnell, FHP 18. Dean Fox, DHS/MV Grant Manager 19. Kathy Cruce, DHS/MV Grant Specialist	<b>ON-LINE</b> 20. Bobby Brown, Seminole Tribe 21. Cindy Cast, Miami-Dade County 22. Rob Fortner, Bay County SO 23. Foster Harbin, Harris Corporation 24. Lynn Latham, Gulf Power 25. Ricwan M. Mir, Alcatel-Lucent 26. Terry Nehring, City of Tampa 27. Rich Steiner, Orange County PS <b>WALK-INS</b> 28. Tim Barrentine, RCCommunications 29. Christopher Campbell, CGI, Inc. 30. Treville Doumle, Alcatel-Lucent 31. Tabitha Hunter, DMS 32. Robert Little, Emergency Management 33. Tom Maddox, Verizon 34. Peter Pardaris, Alcatel-Lucent 35. Greg Prescott, DMS 36. Carlton Wells, DMS 37. Doug Whitfield, DMS
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<b>OBJECTIVES</b>	<ul style="list-style-type: none"> <li>• Public Safety Broadband &amp; Coverage Objectives Overview</li> <li>• Comprehensive Coverage Objectives</li> <li>• Recap/Review of Florida Coverage Objectives</li> <li>• Prioritizing Coverage Objectives (Non-Technical)</li> <li>• Next Steps</li> </ul>		
<b>MINUTES</b>	<ol style="list-style-type: none"> <li>1. Welcome/Introductions by Dick Tenney of Homeland Security, Brett Boston and Facilitator Karl Green</li> <li>2. Workshop participants introduced themselves (in-room and on-line)</li> <li>3. Minutes: There were no minutes available from the Memphis meeting of June 26 &amp; 27, 2013.</li> <li>4. Homeland Security's Office of Emergency Communications provided background information on the technical assistance support for this public safety broadband project, to include:             <ol style="list-style-type: none"> <li>a. Quick overview of OEC's coordination with FirstNet</li> <li>b. Goal to make data mission critical for public safety while considering broadband coverage, congestion, site outage, etc.</li> <li>c. Upgrading devices with BAND 14 receiver to include public safety</li> </ol> </li> </ol>		

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## Listening Sessions

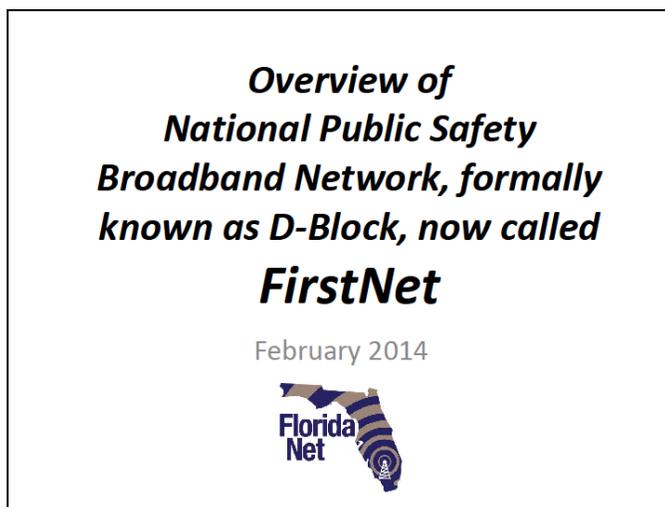
FloridaNet has hosted a series of statewide listening sessions to brief first responders, public safety technologists, and government leaders on FirstNet. The following shows the agenda, presentations and locations for the sessions.

The agenda for the three-hour sessions consisted of the following:

- Registration for non-preregistered participants
- Welcome and Overview
- Introductions to FloridaNet & Planning Process
- Questions from the Audience
- Overview of FirstNet
- Break
- Questions
- How can I Participate in FloridaNet?
- Adjourn

Presentations:

- FirstNet Overview (*For document, see Exhibit 37*)



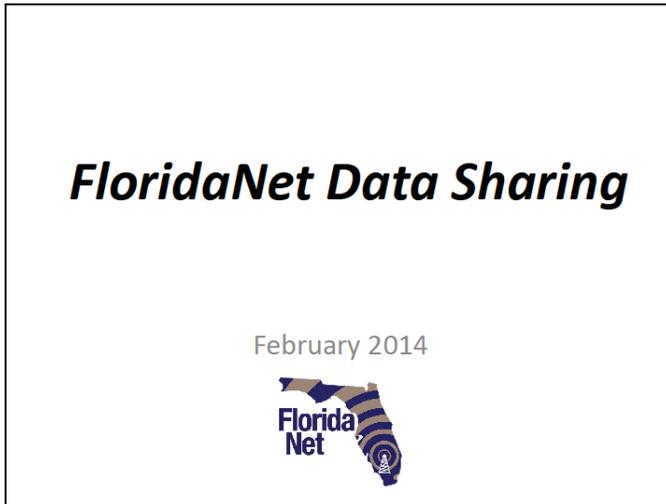
- FloridaNet Overview ([For document, see Exhibit 38](#))



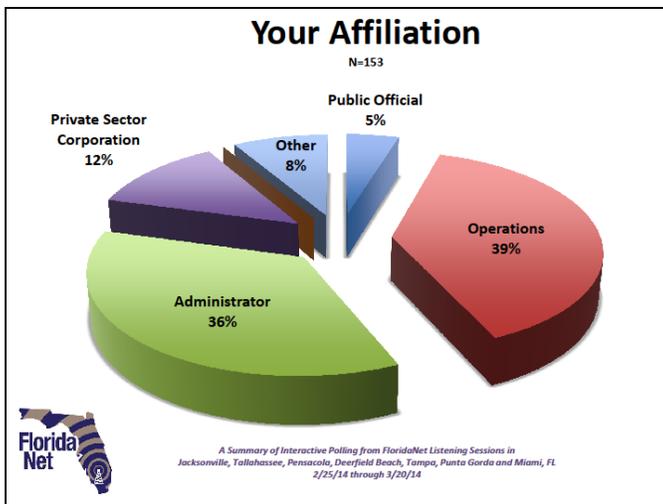
- How to Participate ([For document, see Exhibit 39](#))



- Datasharing (*For document, see Exhibit 40*)



- FirstNet Audience Response Summary (*For document, see Exhibit 41*)



Sessions: February 2014

- Jacksonville, FL (For document, see Exhibit 42)



**Jacksonville 2.25.14**  
**Session 1**

**Participants**

Contact	Representing	email
John Moorhouse	Alachua County	<a href="mailto:jmoorhouse@escp.us">jmoorhouse@escp.us</a>
Ryan Lee	Alachua County	<a href="mailto:rllee@floridasherriff.org">rllee@floridasherriff.org</a>
Chris Parker	St. Johns County	<a href="mailto:cparker@scso.org">cparker@scso.org</a>
Steven Hayner	Duval County	<a href="mailto:shayner@dcij.net">shayner@dcij.net</a>
Michelle Poole	McIntosh	<a href="mailto:Michelle.pooles@mcintoshvolunteers.com">Michelle.pooles@mcintoshvolunteers.com</a>
Bobby Calhoun	Hardy's Communication	<a href="mailto:b.calhoun@hardys.net">b.calhoun@hardys.net</a>
Bruce Windeshem	Hardy's Communications	<a href="mailto:BruceW@hardys.net">BruceW@hardys.net</a>
Kim Laddler	City of Jacksonville	<a href="mailto:kml@vol.net">kml@vol.net</a>
Lee Mathis	St. John's County	<a href="mailto:lmethis@sjcfl.us">lmethis@sjcfl.us</a>

**FloridaNet**

- The orientation slide deck materials were presented
- This process is bringing the entire state together to figure out how to build a public safety broadband network in FL. A technical needs assessment is needed to link this to a national network. Everybody has a chance to participate.
- Florida didn't set up a formal commission. They decided on a more decentralized and locally focused entity for planning. It was understood that a top down from Tallahassee approach wasn't the way to go. The good news, everybody gets to participate. The bad news, Florida has \$7 counties!
- The planning grant came out of Commerce: \$4.9 mil over 2 years. We have the resources necessary to get a good data assessment.
- A broad mix of over 120 public and private organizations has participated so far. More are expected. We have active involvement from both Tribal partners.

Summary Notes from Jacksonville, February 25, 2014 Session 1 1  
Not Verbatim Comments

- Tallahassee, FL (For document, see Exhibit 43)



**Tallahassee 2.27.14**  
**Session 1**

**Participants**

Name	Organization	Email
Carlton Whaley	Franklin County Sheriff's Office	<a href="mailto:cwhaley@franklinsheriff.com">cwhaley@franklinsheriff.com</a>
Alan Ham	Franklin County Sheriff's Office	<a href="mailto:a.ham@franklinsheriff.com">a.ham@franklinsheriff.com</a>
Charles Rodsick	Florida Forest Service	<a href="mailto:Charles.rodsick@floridastate.gov">Charles.rodsick@floridastate.gov</a>
Christopher Sells	FWC	<a href="mailto:Chris.sells@myfwc.com">Chris.sells@myfwc.com</a>
Timothy Lee	Consolidated Leon County Communications	<a href="mailto:Timothy.Lee@lccaa.org">Timothy.Lee@lccaa.org</a>
Billy Fair	Leon County Sheriff's Office	<a href="mailto:Fair2@leoncountyfl.gov">Fair2@leoncountyfl.gov</a>
Nick Simoncini	FDLE	<a href="mailto:nicholasimoncini@flde.state.fl">nicholasimoncini@flde.state.fl</a>
Burt Himmer	DPS, Insurance Fraud	<a href="mailto:Burt.Himmer@myfloridajobs.com">Burt.Himmer@myfloridajobs.com</a>
Bobbie Jo Chambers	Gadsden County Sheriff's Office	<a href="mailto:bobbiejochambers@tals.net">bobbiejochambers@tals.net</a>
Samantha O'Brian	Gadsden County Sheriff's Office	<a href="mailto:samanthaoobrian@tals.net">samanthaoobrian@tals.net</a>
Jan Erwin	FL Dept. of Health	<a href="mailto:jan.erwin@health.fl.gov">jan.erwin@health.fl.gov</a>

**FloridaNet**

- The orientation slide deck materials were presented
- Coverage is different in this world. Jay's here to help us clarify
- \$7 billion is a nice starting point, but some perspective is required. Verizon INDEPENDENTLY spends \$1188 on maintenance

Summary Notes from Tallahassee: February 27, 2014 Day 1 1  
Not Verbatim Comments

Sessions: March 2014

- Pensacola, FL *(For document, see Exhibit 44)*



**Pensacola 3.6.2014**  
**Session 1**

Participants

Name	Organization	Title	Phone	Email
David Mustelwhite	Escambia BCC	IT	850-595-4490	DAmusel@myescambia.com
Chuck Good	Safety & Training	Pensacola Energy	850-474-5305	cgood@ctofpensacola.com
Troy Dunphy	SMRT Region 1	COML	850-322-6499	
Michael Weaver	Escambia County Public Safety		850-473-6411	mweaver@myescambia.com
Mary Sumner	FWC	LT Captain	850-595-8905	Mary.sumner@myfwc.com
Brian Lambert	FWC	LT	850-232-0475	Brian.lambert@myfwc.com
Ben Burns	Office of Ag Law Enforcement	Captain	850-941-6611	En.burns@tchfromflorida.com
Dan Hahr	FWC	LT	850-595-8905	Daniel.hahr@myfwc.com

**FloridaNet**  
Presented orientation slide deck materials

- The grant went through Highway Safety because they had the funds to do the match
- FL is the only state to include the private sector in the planning process
- Both Tribal nations are actively involved in the planning effort

Summary Notes from Pensacola March 6, Day 1  
Not Verbatim Comments

- Deerfield Beach, FL – West Palm Beach *(For document, see Exhibit 45)*



**Deerfield Beach**  
**3.10.2014**  
**Session 1**

Participants

Name	Title	Organization	Phone	Email
Michael Twigger	Division Chief	Deerfield Beach Fire Dept.	561-243-7414	mtwigger@mydeerfieldbeach.com
Mike Hers	Sgt.	Palm Beach County Sheriff's Office	561-267-4434	harsm@pbso.org
Edwin Harp	LT	FWC	954-654-1078	Edwin.harp@myfwc.com
Scott Caske	LT	FWC	954-668-9700	Scott.caske@myfwc.com
Jeff Merrill	A. Chief	Tamarac, FL	954-597-3800	jrm@tamarac.org
Victor Williams	Asst. Chief	DWR	561-243-7487	willmove@mydeerfieldbeach.com
Steve Anderson	Division Chief	Deerfield Fire Rescue	561-243-7440	andersons@mydeerfieldbeach.com
Van Schoer	Specialist	Tamarac Fire	954-597-3805	Van.schoer@tamarac.org
Ashley Lee	Emergency Management Manager	Florida Hospital Association	561-972-6401	ashleyl@fha.org

**FloridaNet**  
Summary Discussion Notes from Discussion in Deerfield Beach, FL Summary: March 10, 2014 Session 1  
Not Verbatim Comments

- Tampa, FL (For document, see Exhibit 46)



**Tampa 3.13.2014**  
**Session 1**

Participants

Name	Title	Organization	Phone	Email
Dennis Stahley	Detective Sgt.	Bradenton Police Dept	941-932-9307	<a href="mailto:dennis.stahley@cityofbradenton.com">dennis.stahley@cityofbradenton.com</a>
Tony Brigman	CEO	City of Lakeland IT	888-834-6051	<a href="mailto:tony.brigman@lakelandgov.net">tony.brigman@lakelandgov.net</a>
Gary Bellard	Fire Chief	Lakeland Fire Dept.	888-834-8300	<a href="mailto:gary.bellard@lakelandgov.net">gary.bellard@lakelandgov.net</a>
Patrice Kerosic	ASA	City of Tampa Office	813-278-5500/5530	<a href="mailto:patrice.kerosic@tampagov.net">patrice.kerosic@tampagov.net</a>
Andrew Blarke	Chief Engineer	Communications International	813-892-8214	<a href="mailto:ablarke@igad4.com">ablarke@igad4.com</a>
Yolisa Camacho	Supervisor	Pinellas County Sheriff's Office	727-582-6181	<a href="mailto:yolisc@psosnet.com">yolisc@psosnet.com</a>
Shula Sorrentino	Com Center Supervisor	Pinellas County Sheriff's Office	727-582-6181	<a href="mailto:ssorrent@psosnet.com">ssorrent@psosnet.com</a>
Mindy Stewart	Radio Manager	City of Ocala	352-401-6600	<a href="mailto:mstewart@ocajfl.org">mstewart@ocajfl.org</a>
Donald Hall	Major	Clearwater Police Department	727-562-4352	<a href="mailto:donald.hall@myclearwater.com">donald.hall@myclearwater.com</a>
Joseph Lyons		Wester Haven Police Dept.	888-781-5705	<a href="mailto:jlyons@mywesterhaven.com">jlyons@mywesterhaven.com</a>
Jean Marie Helm	Program Manager	Harris CapRock	361-461-4896	<a href="mailto:jhelm@harris.com">jhelm@harris.com</a>

Summary Discussion Notes from Discussion in Tampa, FL Summary: March 13, 2014 Session 1  
Not Verbatim Comments

- Punta Gorda, FL (For document, see Exhibit 47)



**Punta Gorda**  
**3.17.2014**  
**Session 1**

Participants

Name	Title	Organization	Phone	Email
Bob Finney	Technical Manager	Collier County Sheriff's Office	239-253-4889	<a href="mailto:Bob.Finney@colliersheriff.org">Bob.Finney@colliersheriff.org</a>
Jim Kauffman	Director, Planning & Technology	Bonita Springs Fire & Rescue District	239-949-6200	<a href="mailto:jkauffman@bonitasprings.com">jkauffman@bonitasprings.com</a>
Kevin Lombardo	VV/GM	RIU	239-571-0939	<a href="mailto:klombardo@ri.com">klombardo@ri.com</a>
John Barkley	LT, Professional Standard	Naples Police Dept	239-213-4874	<a href="mailto:jbarkley@naplesgov.com">jbarkley@naplesgov.com</a>
Bill R				
Andy Stastler	Radio Manager	Lec County	239-533-3617	<a href="mailto:astadler@leegov.com">astadler@leegov.com</a>
Tom Foy	AAAC	FDLE	305-331-2727	<a href="mailto:tomfoyl@fla.state.fl.us">tomfoyl@fla.state.fl.us</a>
Scott Bealy	Detective/Boat Squad	State Fire Marshal	239-278-7630	<a href="mailto:Scott.Bealy@myfloridato.com">Scott.Bealy@myfloridato.com</a>
Mike Oler	Sgt./Bomb Squad Commander	Collier County Sheriff's Office	239-253-4689	<a href="mailto:Paul.oler@colliersheriff.org">Paul.oler@colliersheriff.org</a>
Mike Harrington	Sr. Account Manager	Motorola	239-574-8765	<a href="mailto:Michael.Harrington@motorolalabs.com">Michael.Harrington@motorolalabs.com</a>
Bill Rule	Commander of Communications	Collier Sheriff's Office	239-253-9364	<a href="mailto:Bill.Rule@colliersheriff.org">Bill.Rule@colliersheriff.org</a>

Summary Discussion Notes from Discussion in Punta Gorda FL Summary: March 17, 2014 Session 1  
Not Verbatim Comments

- Miami, FL (For document, see Exhibit 48)



**Miami 3.19.2014**  
**Session 1**

Participants

Name	Title	Organization	Phone	Email
Greg Rubin		Miami Dade Fire		
Andy Pichs		Miami Dade Fire Rescue		
Frinda Vaughan		FDCH Region 7		
John Merzola		Miami Dade Fire Rescue		
Jose Estrada		City of Miami		
Ron Ryan		ATF SOI		
Jose Rivera		MEBO		
Jeff F				
Jason Swift		City of Coral Gables		
John Cravens		Cisco		
Cindy Carr				
David Patrick		Miami Beach		

FloridaNet

- The orientation slide deck materials were presented
- We'll tell you what's known and offer some speculation on
- Q: \$4.9 million allocated to FL?
- A: Yes, for setting up governance and planning, not for building or equipment
- If you don't define your own jurisdiction someone else will do it for you. This is huge. Getting our preferences in early in this process offers the greatest chances for success.

Summary Discussion Notes from Discussion in Miami, FL Summary, March 19, 2014 Session 1  
 Not Verbatim Comments

- Orlando, FL (For document, see Exhibit 49)



**Orlando 3.31.2014**  
**Session 1**

Participants

Name	Title	Organization	Phone	Email
Tommy Barnes	Fire	Sanford Airport Fire Dept.		
David Charles	Deputy	U.S. Marshals Service		
Joshua Cordero	Comm Center Trainer	Highlands CO Sheriff's Office	863-303-6000	cordero@highlands.org
Crista Dexter	Comm Center Trainer	Lake CO Sheriff's Office	342-2101	Crista.dexter@laco.org
Suzanne Gartenke	Support Service Supervisor	Lake Mary Police Dept.	407-585-1322	sgartenke@lakemaryfl.com
Maureen Hatcher	Director of Communication	Lake CO Sheriff's Office	407-343-2101	Maureen.hatcher@laco.org
Randy Jones		Lake CO Fire Rescue	352-367-7700	rgones@laco-countyfl.gov
Glenn Lopez	Comm Coordinator	Volusia County SO	386-248-1774	glopez@vco.us
Anthony Merzola	Training	UCF PD	407-456-1620	Anthony.merzola@ucf.edu
Myra Merritt	Assistant Director of Communications	Lake CO Sheriff's Office	342-2101	mmerritt@laco.org
Marcus Messura	Account Manager	Motorola	813-728-6800	amm114@motorolasolutions.com

Summary Discussion Notes from Discussion in Tampa, FL Summary, March 31, 2014 Session 1  
 Not Verbatim Comments

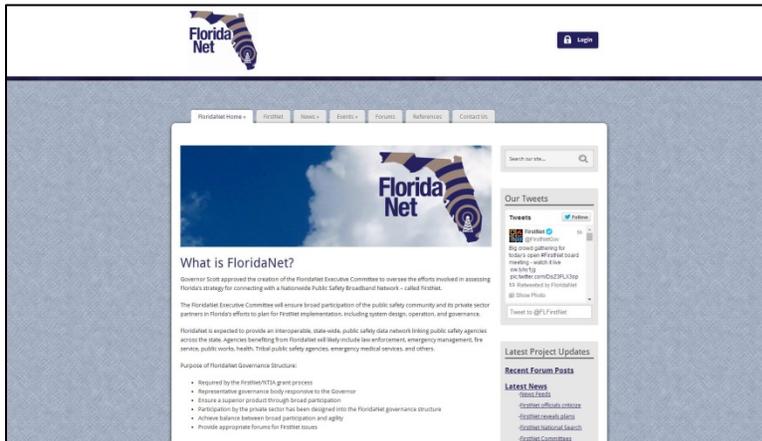
Sessions: April 2014

- WebEx

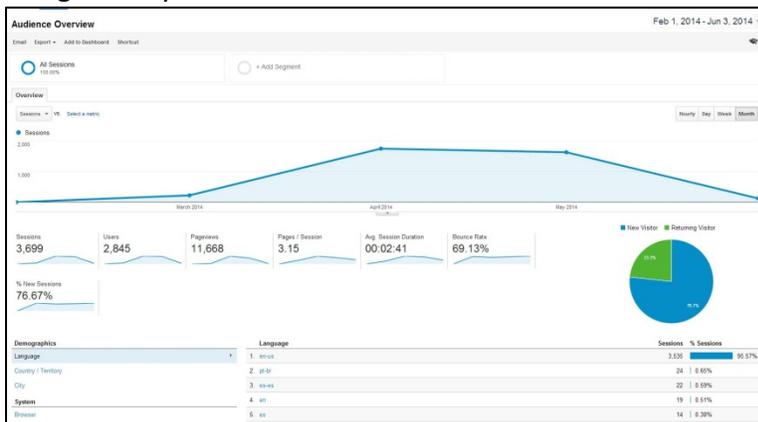
## Website

FloridaNet has provided its own website to facilitate the process of informing and engaging the public safety community. To date the site has approximately 180 members, consisting of a range of disciplines, such as public safety officials, law enforcement, and fire department. The site is expected to grow over 500 members by July.

### FloridaNet Home



### Google Analytics



## Other Outreach

FloridaNet is in the process of producing a brochure/pamphlet to distribute as well as a video to forward to the public safety community across the state to continue outreach efforts for FirstNet and FloridaNet.

On October 9, 2013, then Executive Director of Florida Department of Highway Safety & Motor Vehicles and Florida's State Single Point of Contact to FirstNet, Julie Jones, presented information to the Senate Appropriations Committee Meeting in Tallahassee, Florida about

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FirstNet. All members of the committee received a copy and engaged in questions and answers with Director Jones. In attendance at the meeting were eight (8) Senate Appropriation Committee Members and a minimum of 20 people in the audience. The meeting was televised, which was estimated to have a 50+ viewership, which brings the total to approximately 80 people viewing the presentation by Director Jones.

Presentation: FirstNet ([For document, see Exhibit 50](#))

***National Public Safety  
Broadband Network  
(FirstNet)***

October 2013



## Exhibit 39

# ***FloridaNet***

## ***How to stay connected.***

February 2014





# Introduction to FloridaNet.gov

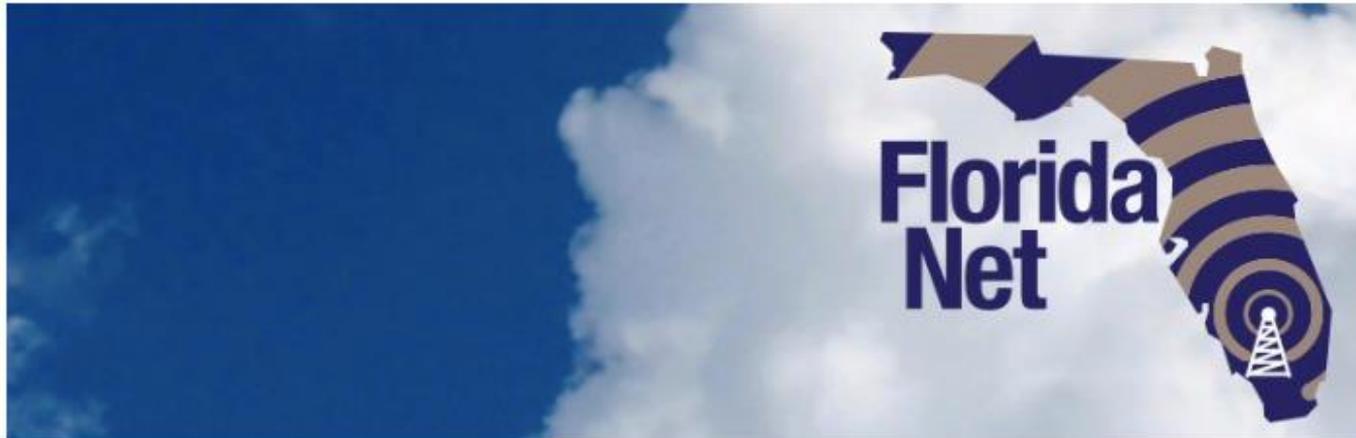
FloridaNet Home

Executive Committee

FirstNet

Registration

Contact Us



## What is FloridaNet?

Governor Scott approved the creation of the FloridaNet Executive Committee to oversee the efforts involved in assessing Florida's strategy for connecting with a Nationwide Public Safety Broadband Network – called FirstNet.

The FloridaNet Executive Committee will ensure broad participation of the public safety community and its private sector partners in Florida's efforts to plan for FirstNet implementation, including system design, operation, and governance.

Search our site...



## Our Tweets

Tweets

 Follow



**FloridaNet**

@FLFirstNet

28 Jan

FloridaNet Hosting Statewide Listening Sessions on FirstNet (National Public Safety Broadband Network/D-Block)... [fb.me/3Lrbr7sED](https://fb.me/3Lrbr7sED)

Tweet to @FLFirstNet



# ***Introduction to FloridaNet.gov***

As the FloridaNet evolves, you will be able to:

- Sign-up to get regular email and newsletter updates on FloridaNet progress, meetings, workshops
- Download presentations, documents, and pertinent project information and updates
- View work products as they are released
- Find links to relevant information on FloridaNet, Major Associations and Organizations, and FirstNet



# Twitter

## FloridaNet @FLFirstNet

  **FloridaNet** @FLFirstNet [+ Follow](#)

Followers **19**  Following **1** 

**Tweets**

 **FloridaNet** @FLFirstNet  
FloridaNet Hosting Statewide Listening Sessions on FirstNet (National Public Safety Broadband Network/D-Block)... [fb.me/3Lrbr7sED](http://fb.me/3Lrbr7sED)  
7:54 PM Jan 28th

 **FloridaNet** @FLFirstNet  
I posted 16 photos on Facebook in the album "FloridaNet Presentation"  
[fb.me/1RHC5oUtw](http://fb.me/1RHC5oUtw)  
2:00 PM Oct 10th, 2013

[View FloridaNet's full profile →](#)



# *Twitter*

## *FloridaNet @FLFirstNet*

Twitter:

- @FLFirstNet will be tweeting major posts, events, and updates
- @FLFirstNet will re-tweet relevant information from organizations we are following
- @FLFirstNet will not be tweeting non-business related information
- @FLFirstNet will follow accounts related to first responder and relevant government and association posts



# Facebook

[www.facebook.com/pages/FloridaNet](http://www.facebook.com/pages/FloridaNet)

facebook Search for people, places and things

Create Page

**Florida Net**

**FloridaNet**  
16 likes · 9 talking about this

Government Organization  
Provide statewide leadership for FirstNet implementation in Florida.

About - Suggest an Edit

Like Follow

**Next Steps**

- Further will provide additional guidance to...
- Further will meet with the United Executive Board in Tallahassee in coming months.
- Further will proceed with coverage agreements and other work involving with local first responder networks.
- Florida is the only state including private sector partners in the discussion.

16 Likes

Highlights

Post Photo / Video

Be the first to write something on FloridaNet...

FloridaNet  
October 10, 2013

FloridaNet shared a link.  
January 28

FloridaNet Hosting Statewide Listening Sessions on FirstNet (National Public Safety Broadband Network/D-Block)

<http://www.floridanet.gov/registration>



## ***Facebook***

***[www.facebook.com/pages/FloridaNet](http://www.facebook.com/pages/FloridaNet)***

Facebook:

- FloridaNet will post relevant project information and updates on Facebook
- Facebook will serve as FloridaNet's public forum for broad dialogue and idea sharing
- Comments will be moderated
- FloridaNet will like relevant and related sites



# ***Summer 2014 Workshops On Broadband Coverage***

Regional Workshops on Broadband coverage will be held in the **Summer of 2014**

The workshops will:

- Provide for local input into broadband coverage by the 7 Domestic Security Task Force Regions – the regional model we are using for FloridaNet coordination.
- Introduce the survey elements FloridaNet will be collecting for FirstNet
- Provide an update on FloridaNet planning progress



# ***Fall 2014 Workshops***

## ***Second Round of Local Input***

Regional Workshops to gather additional input will be held in **the Fall of 2014**

The workshops will:

- Provide an update on FloridaNet planning progress
- Provide for additional local input
- Share the results of previous broadband coverage efforts and get additional local input
- Provide available thinking design elements for FloridaNet and seek local input

**Exhibit 40**

# ***FloridaNet Data Sharing***

February 2014





# *FloridaNet/FirstNet Overview*

- FirstNet will be the first nationwide, high-speed wireless, broadband data network dedicated to public safety.
- This new network will be public safety-grade, providing access to applications and coverage where public safety needs it most.
- FloridaNet will be the state version of this network and is expected to provide an interoperable, state-wide, public safety data network linking public safety agencies across the state.
- Agencies benefiting from FloridaNet will likely include law enforcement, emergency management, fire service, public works, health, Tribal public safety agencies, emergency medical services, and others.



## ***Gathering the Data***

During Phase 1 of the State and Local Integrated Grant Program Grant (SLIGP) FloridaNet will gather the following types of public and private sector information:

1. Coverage needs
2. Number of users
3. Current partners
4. Features, equipment, and pricing programs



# ***Gathering the Data***

- FirstNet will provide FloridaNet a GIS map showing proposed coverage objectives in four major categories (April 2014):
  - In Building
  - Handheld / Partial In-Building
  - Vehicular Modem / Partial Handheld
  - Satellite / Deployable
- States will provide updated coverage objectives through an updated GIS file
- States will be encouraged to gather input from all, local, state, and tribal agencies
- Voluntary OEC Coverage Workshops can help states get an early start and better understand this process
- Coverage objectives will be used to focus subsequent SLIGP Phase 2 data collection
- Parallel effort will occur with Federal agencies through federal outreach via ECPC



# ***Gathering the Data***

- FirstNet will provide User baseline data (as available) for primary responders in each State to include:
  - Number of agencies by discipline
  - Number of personnel by discipline
  - Detailed agency user database
- FirstNet will also provide potential categories of secondary responders for consideration by the State with guidance provided from PSAC
- States will provide updated data on primary responders and estimated user counts for secondary responder groups whom they believe should be eligible users on the network
- Parallel effort will occur with Federal agencies through Federal Outreach via ECPC
- Voluntary OEC workshops will provide this baseline data as part of the delivery.
- Data will be used to support subsequent data collection during SLIGP phase 2, as well as inform capacity planning





## ***Gathering the Data***

- FirstNet is providing the specific list of data elements they require March 2014
- FloridaNet will establish an interim working group from the Technical Committee to review and compare FirstNet provided coverage maps and data requirements with existing Florida data
- FloridaNet is developing a secure data collection process to gather any missing data from local, county, state, and private sector partners in Florida



## ***Secure Data Handling***

FloridaNet is developing data portals to ensure the integrity and security of the data collected

By recommendation of the Private-Public Committee, **private-sector data portal** will be modeled on the National Council of ISACs

- See [www.isaccouncil.org](http://www.isaccouncil.org)
- Non-disclosure agreements are being developed between FloridaNet and the private sector partners



## ***Secure Data Handling***

FloridaNet is developing **2 public sector data portals** to ensure the integrity and security of the data collected

By recommendation of an interim working group of the Technical Committee, 2 public-sector data portals will be developed

- One for local partners to review and share data with FloridaNet (Data collection via GIS survey)
- A second for an designated interim working group to review and compare FloridaNet data with FirstNet data (Regional planning support)



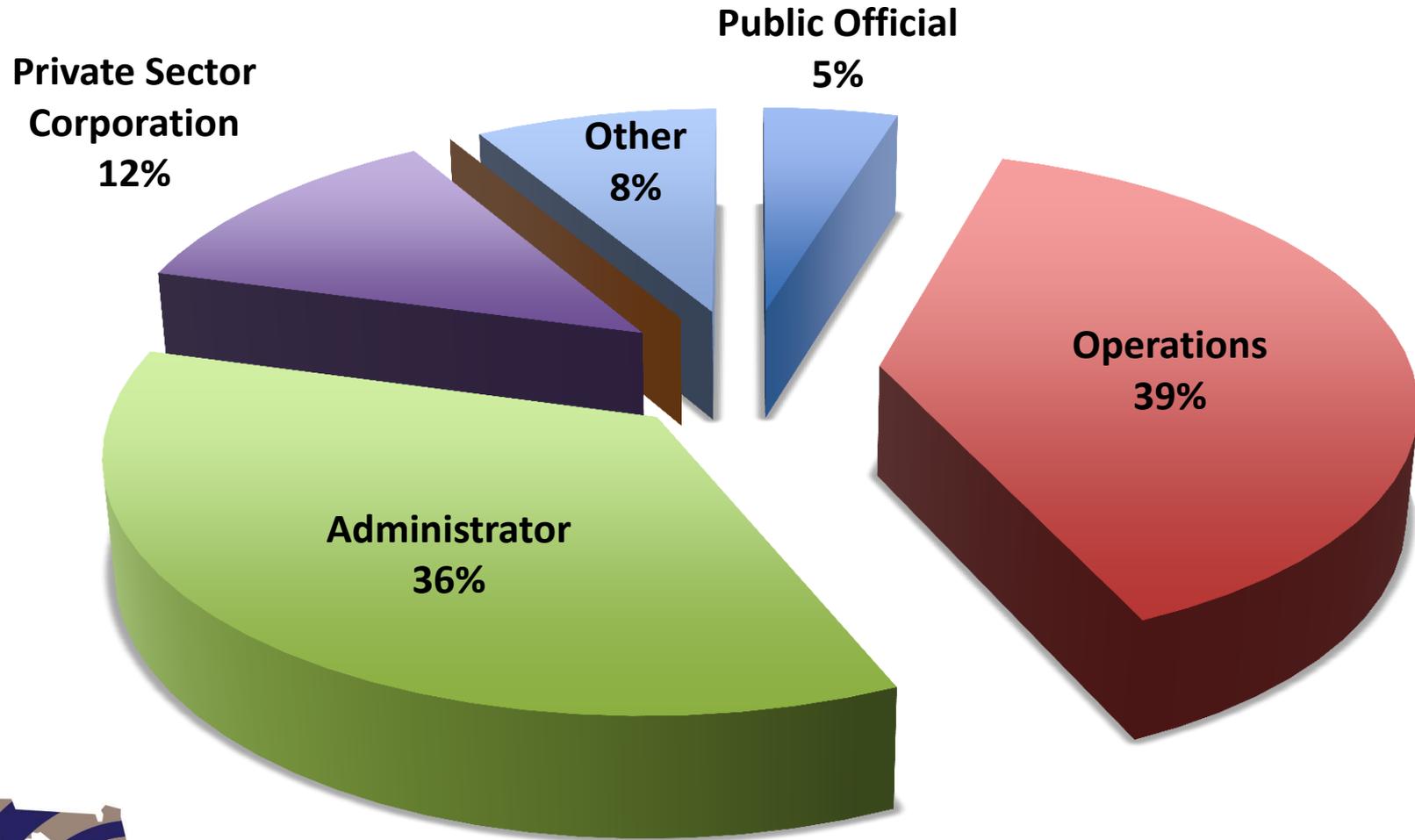
## ***Next Steps***

- Begin State Consultation Process between FloridaNet and FirstNet
- Review data collection requirements from FirstNet (Available March)
- Review FirstNet preliminary coverage maps and business models (Available April)
- Determine data collection needs and process
- Continue coordinating with Southeastern States (8 - FEMA Region IV States) on border coverage, priorities, application development, and other regional issues

**Exhibit 41**

# Your Affiliation

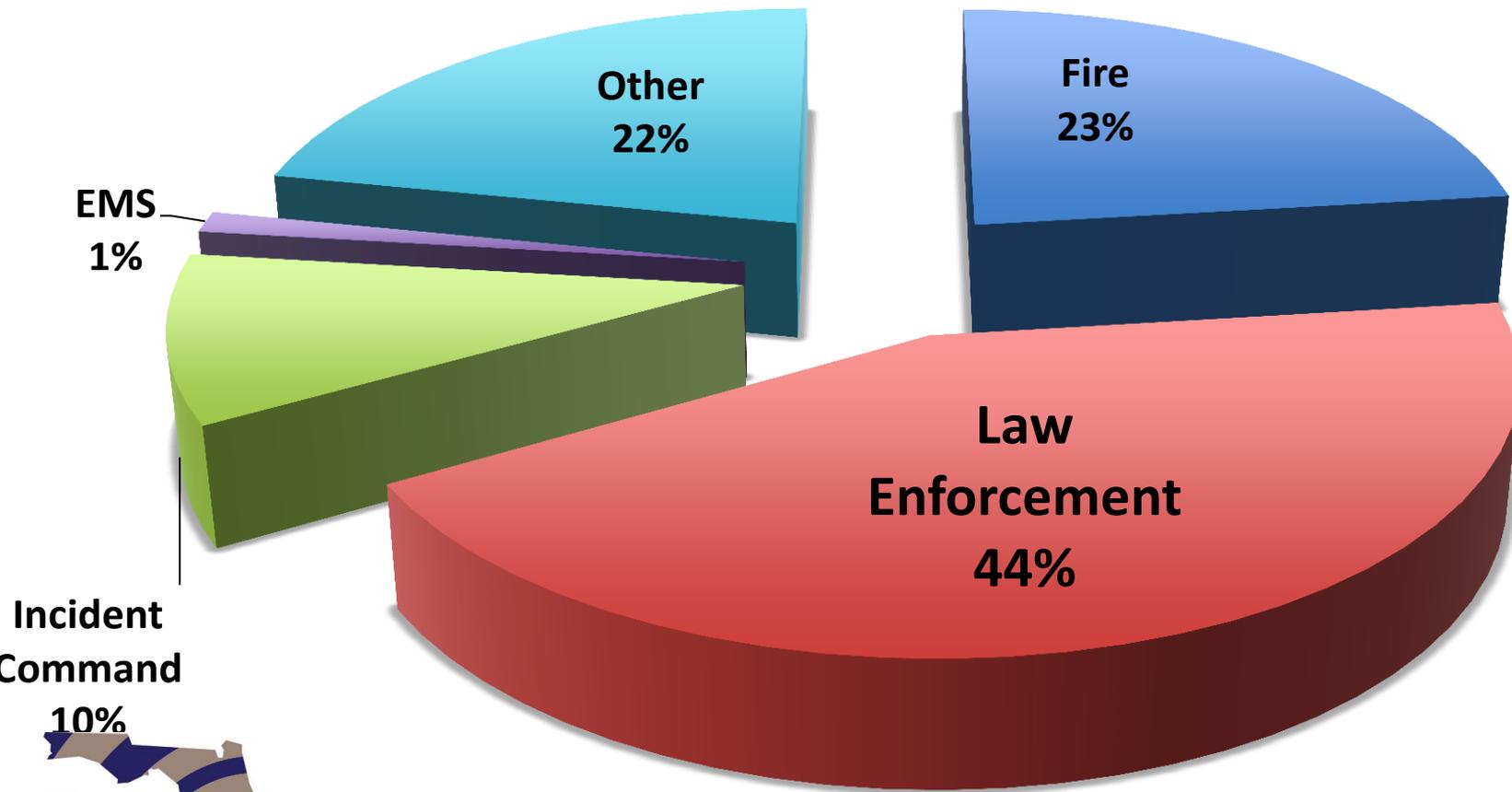
N=153



*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# If You're a FIRST RESPONDER...What Best Describes Your Function?

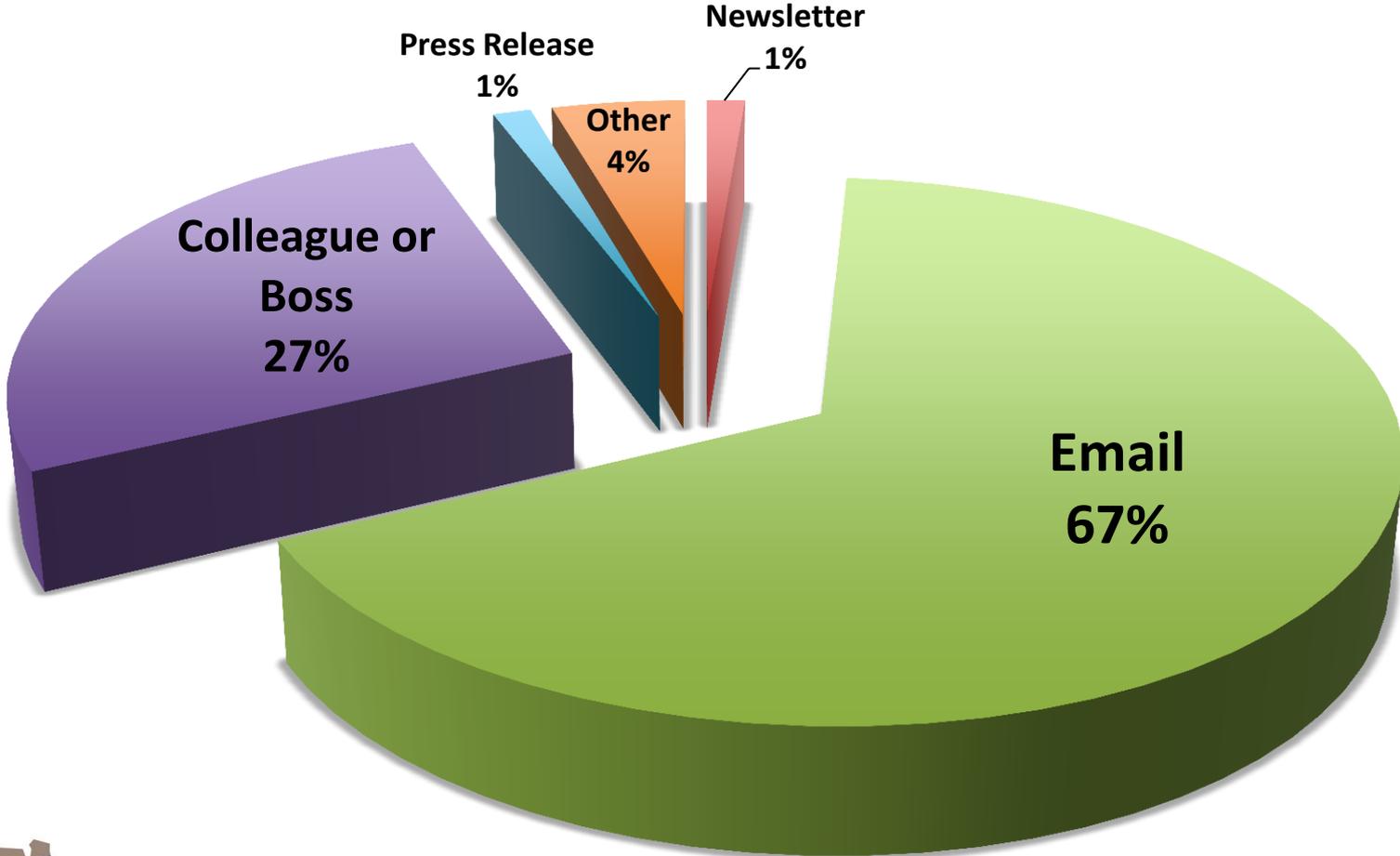
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# How Did You Learn About Today's Workshop?

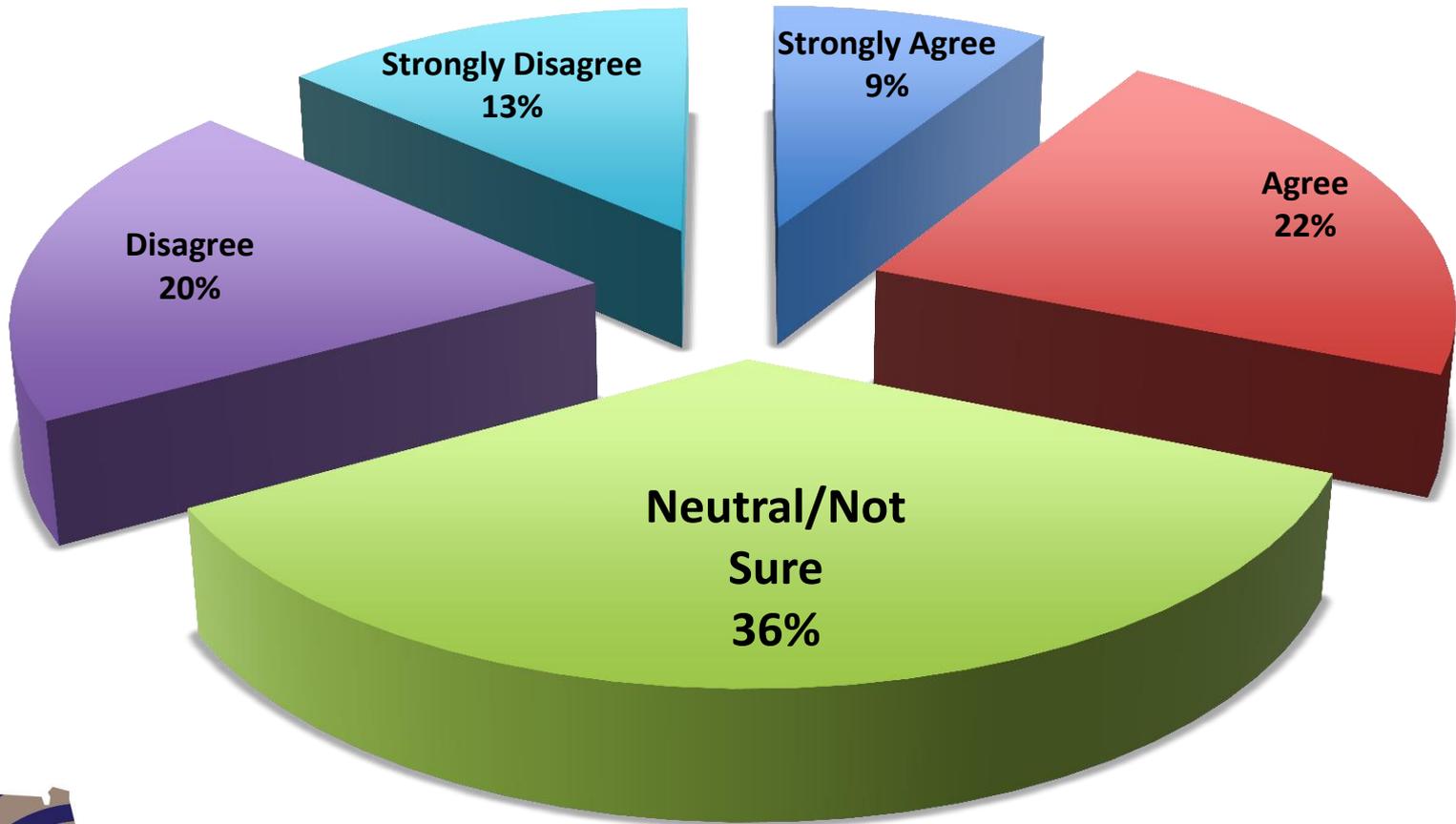
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# I'm Knowledgeable About FirstNet

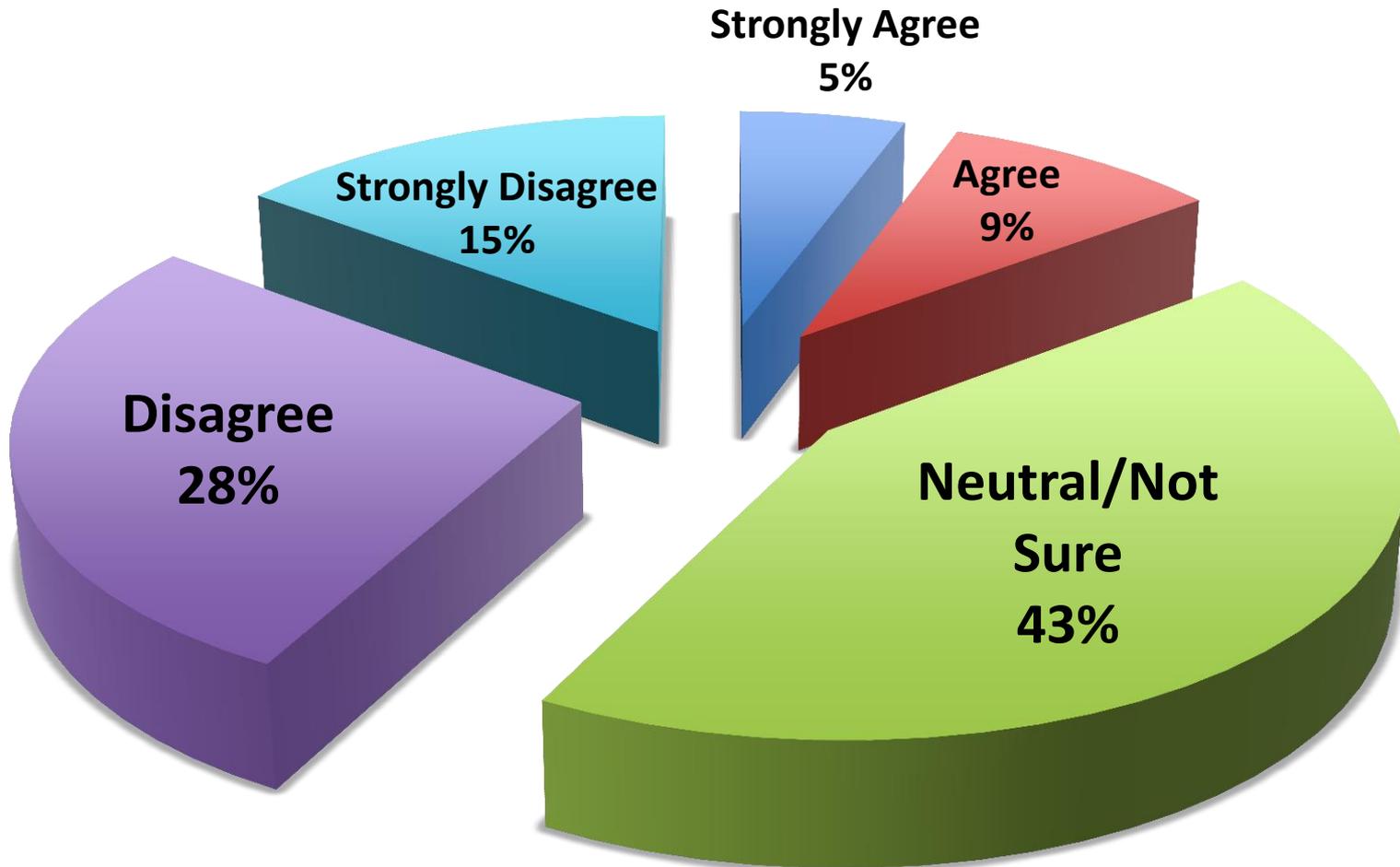
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# I'm Knowledgeable About FloridaNet

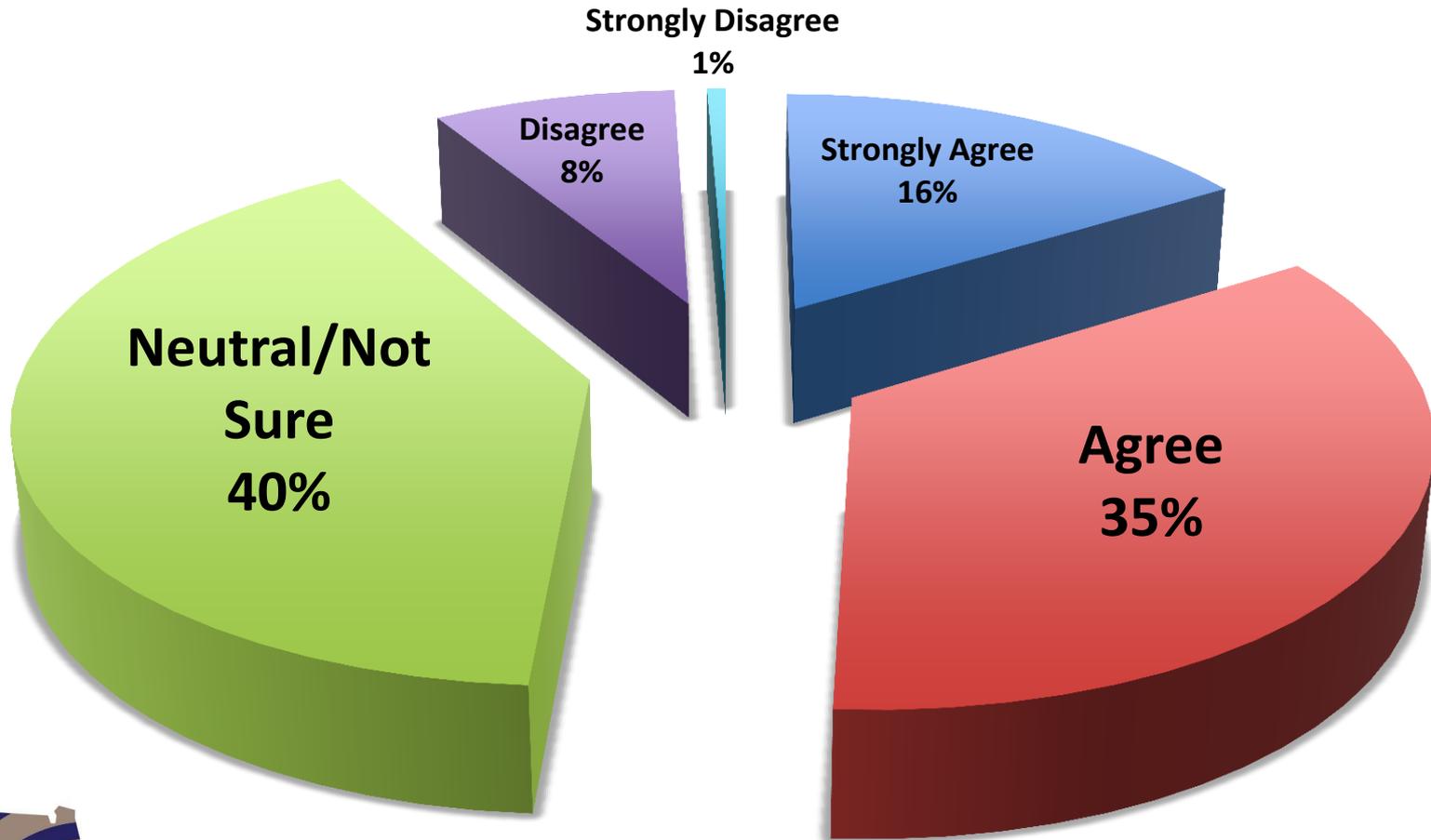
N=163



*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# I'm Interested in Being Involved in FloridaNet Planning Efforts

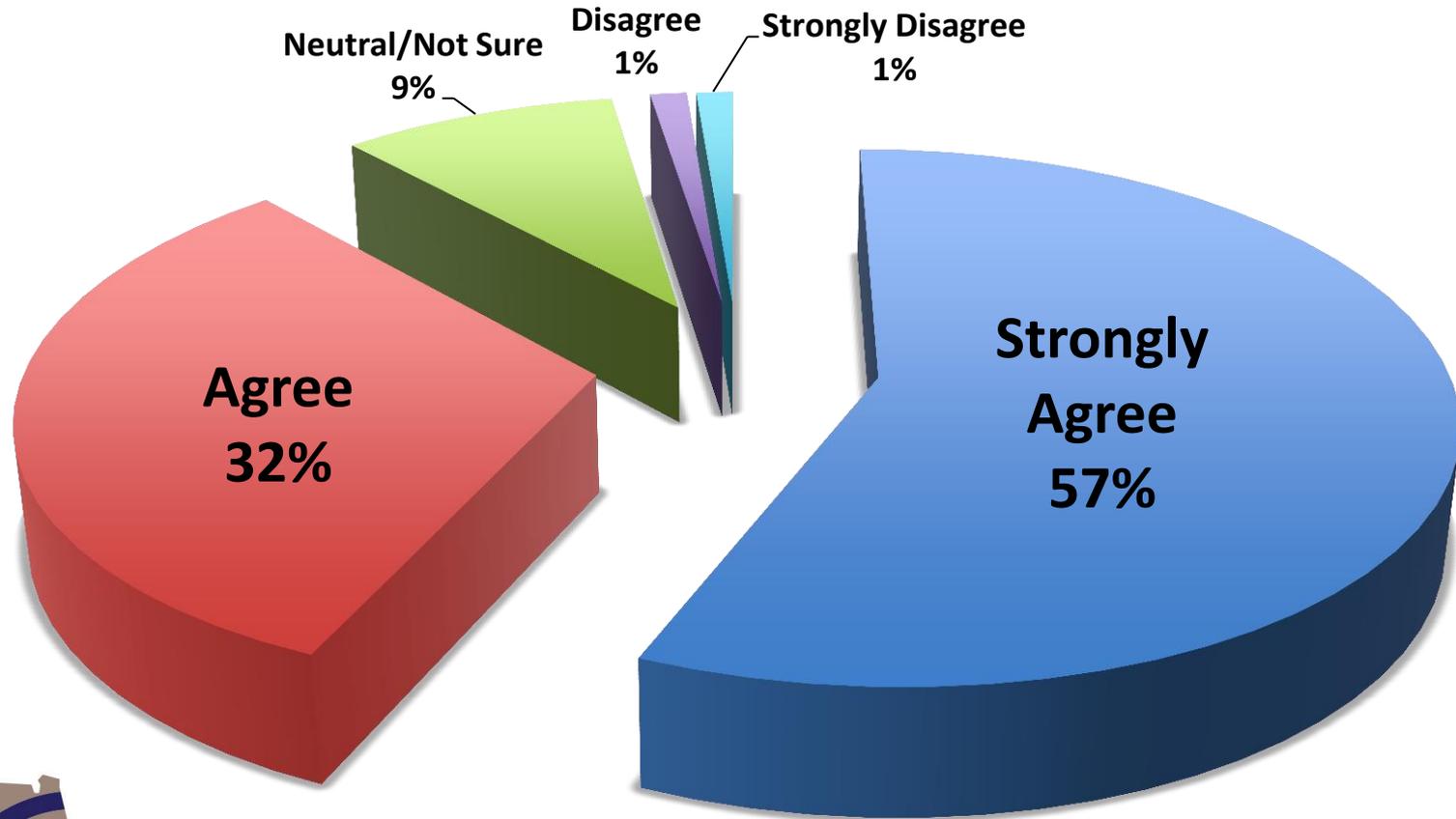
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety

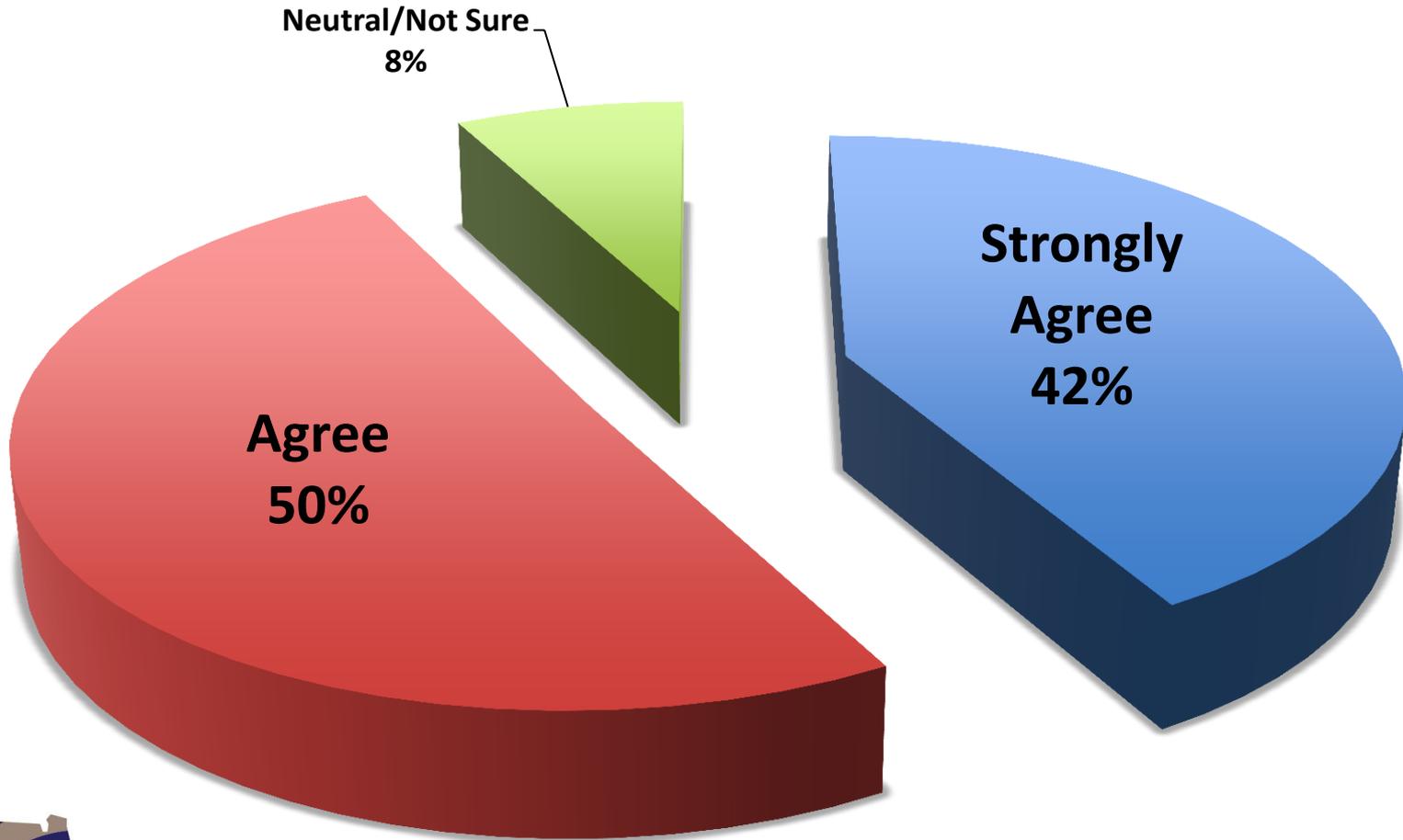
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# Today's Workshop Addressed My Questions About FloridaNet

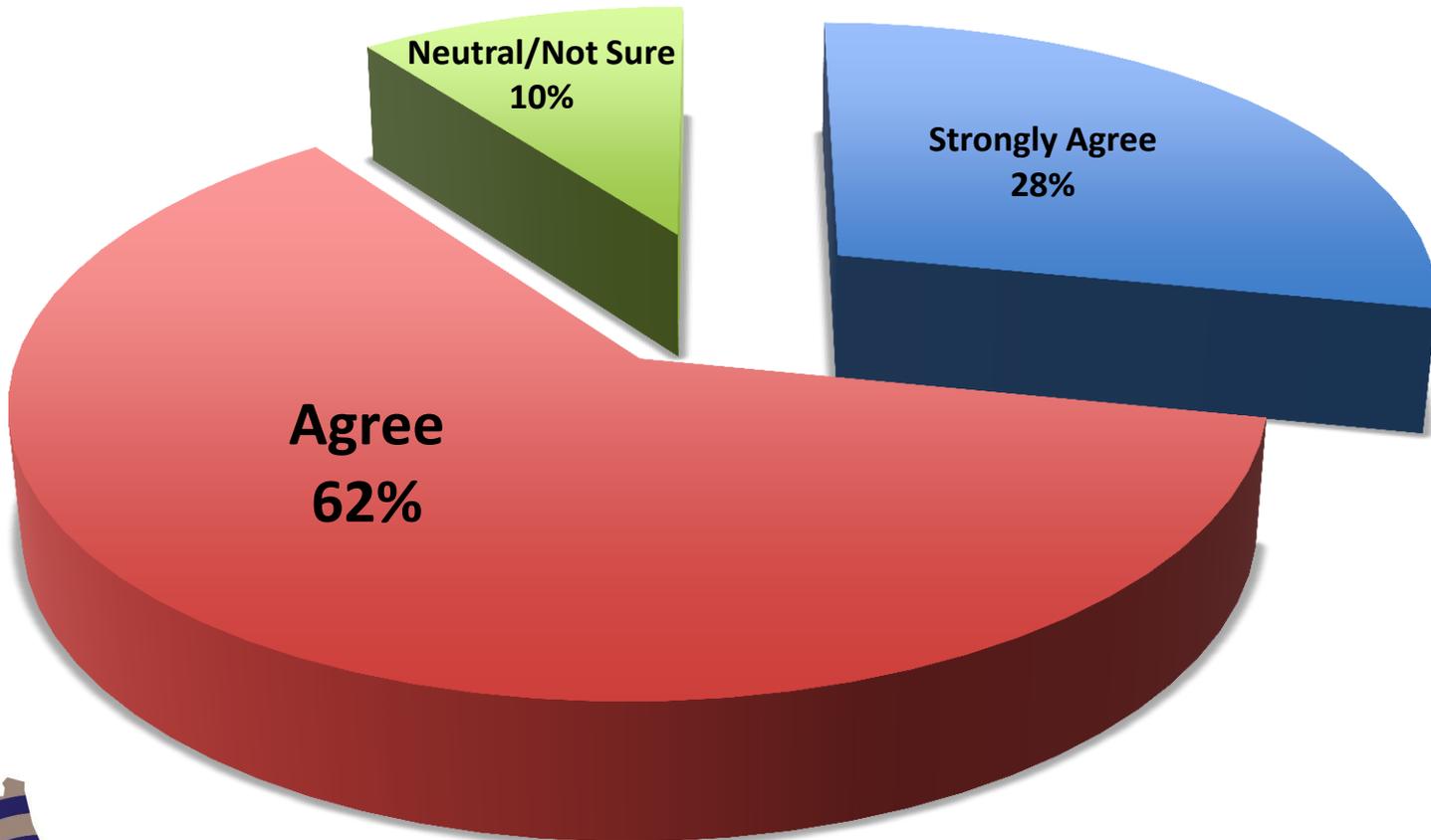
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in  
Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL  
2/25/14 through 3/20/14*

# Today's Workshop Addressed My Questions About FirstNet

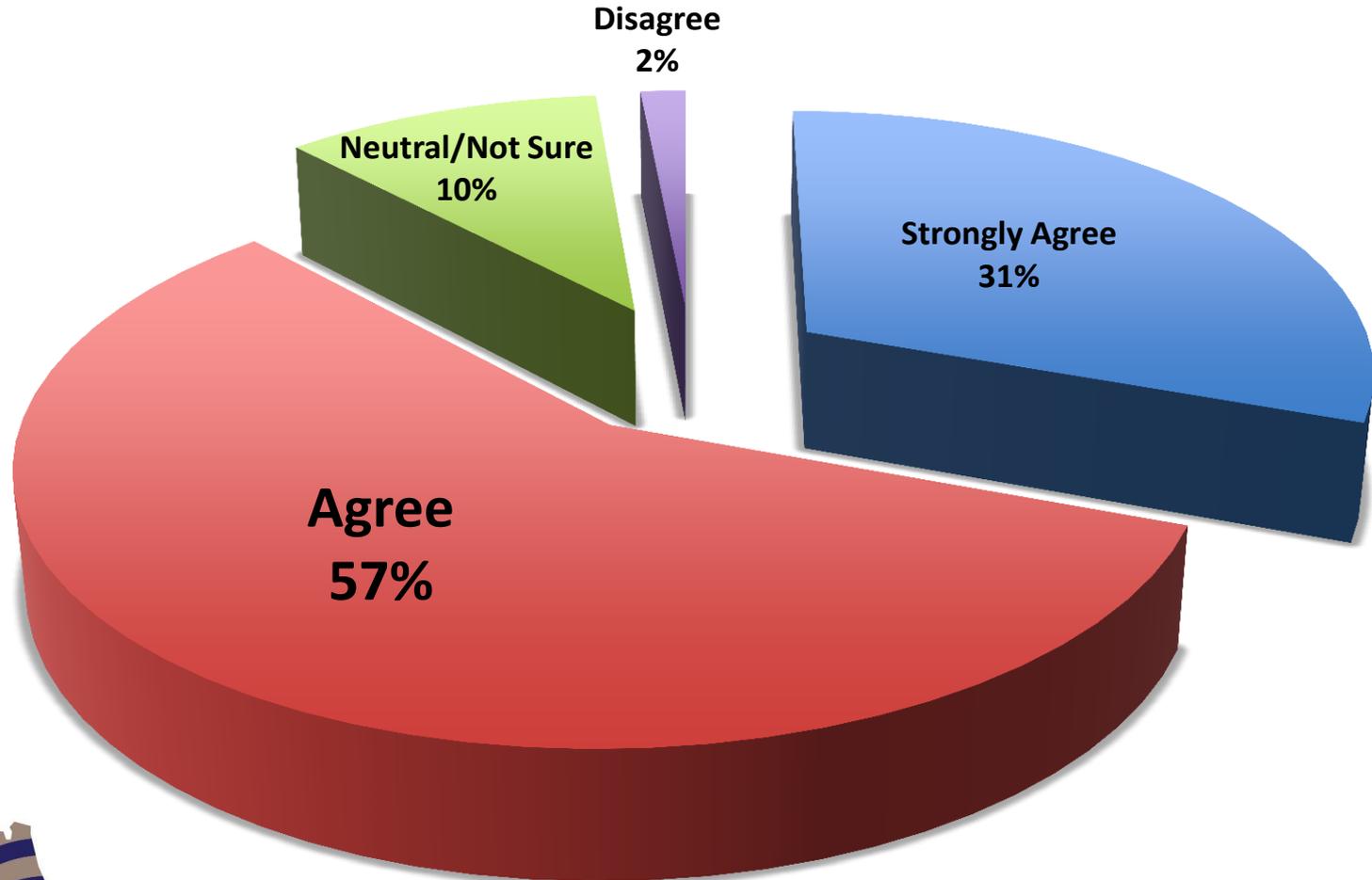
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in  
Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL  
2/25/14 through 3/20/14*

# I Understand My Options for Participating in FloridaNet Planning Efforts

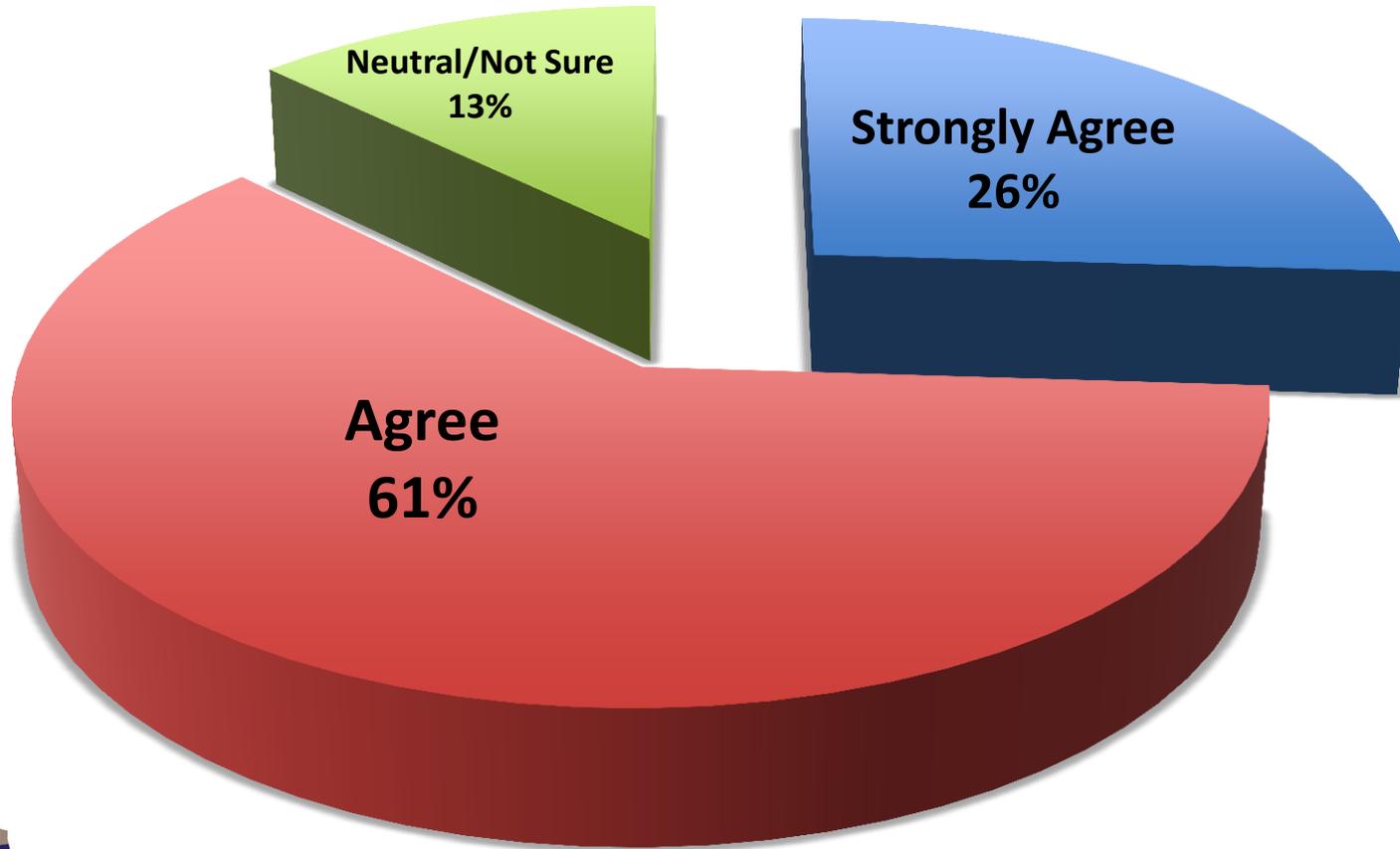
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# Today's Workshop Was A Good Use of My Time

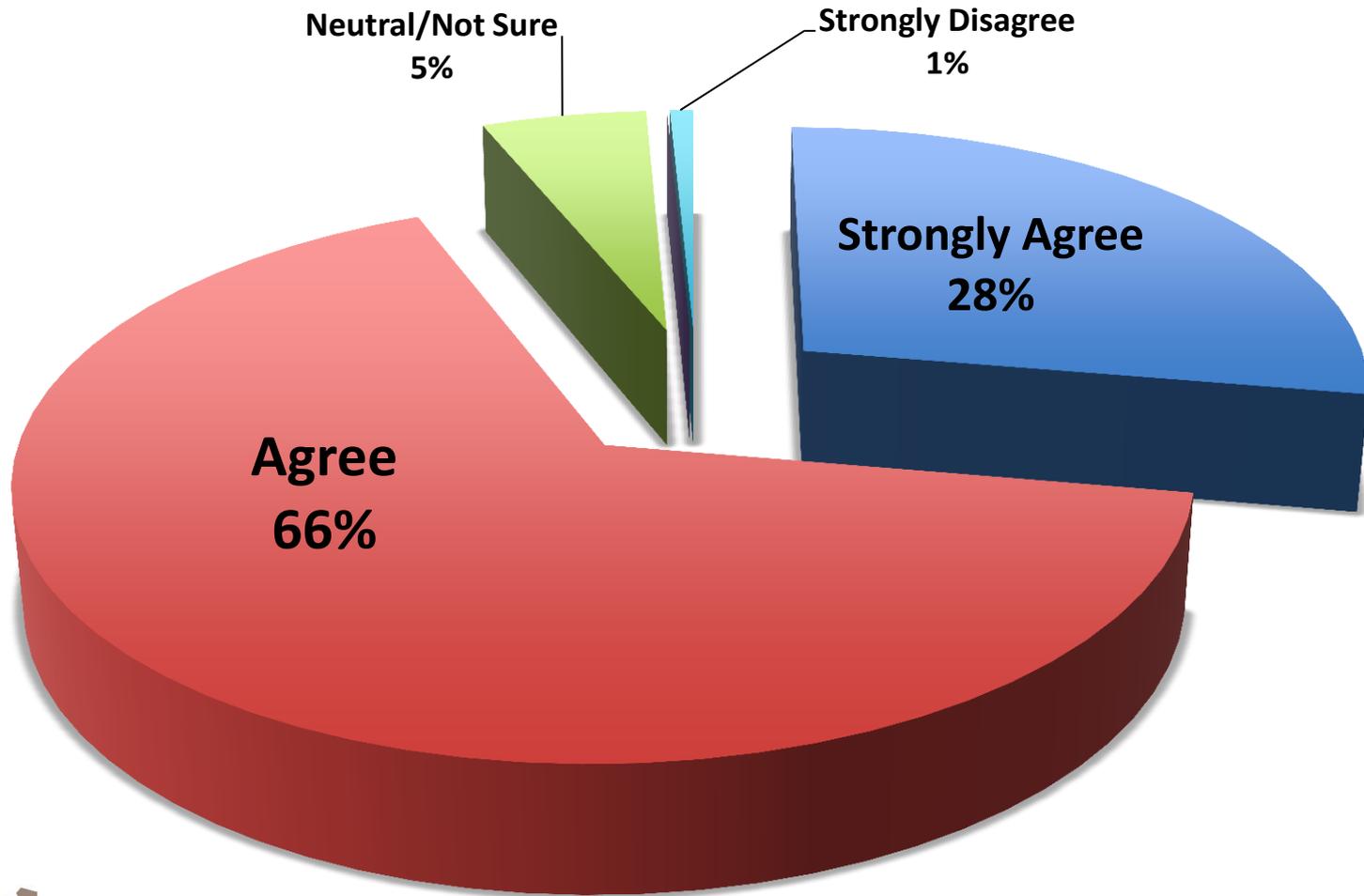
n=127



*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# The Workshop Was Well-Designed

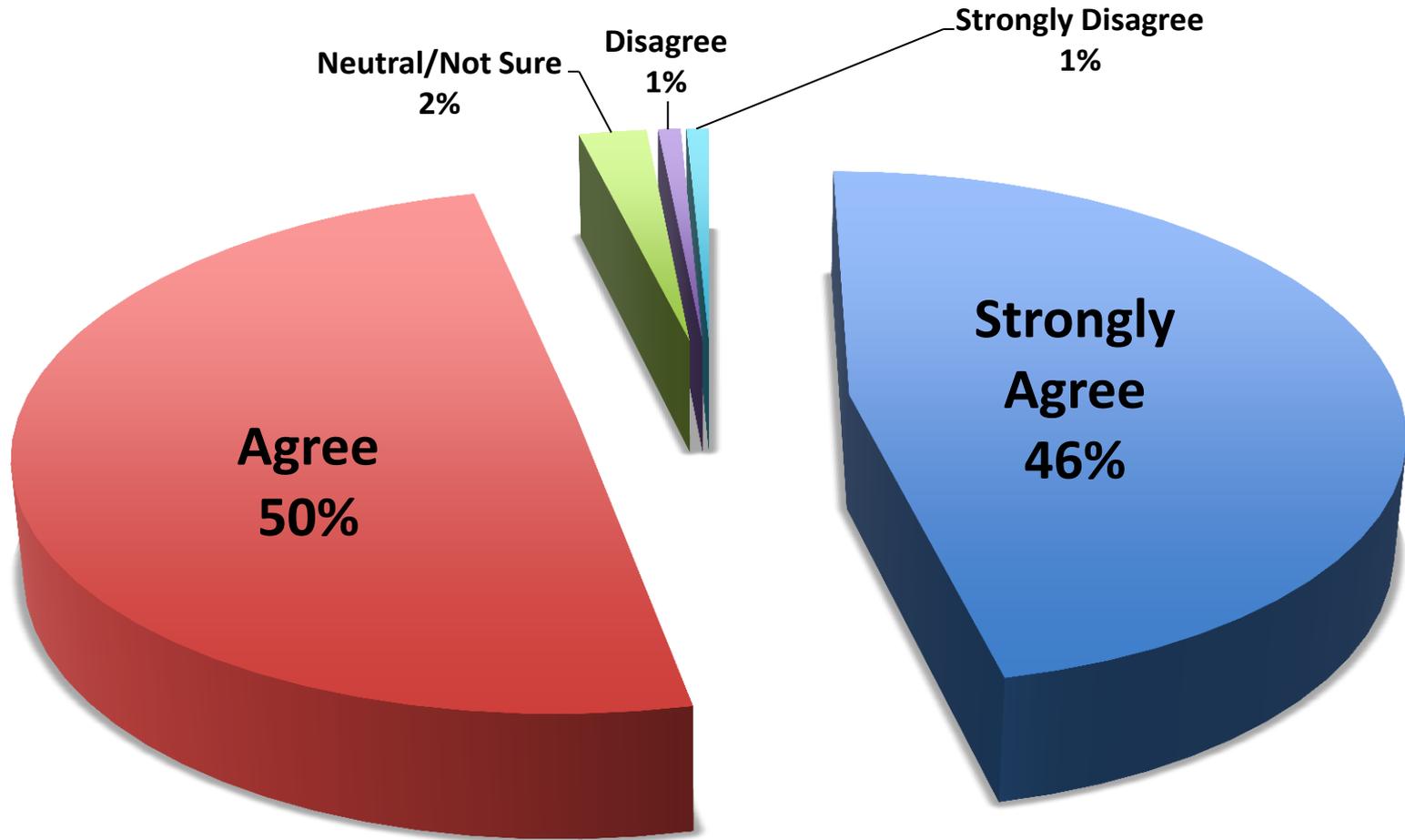
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# Today' Workshop Was Well Facilitated

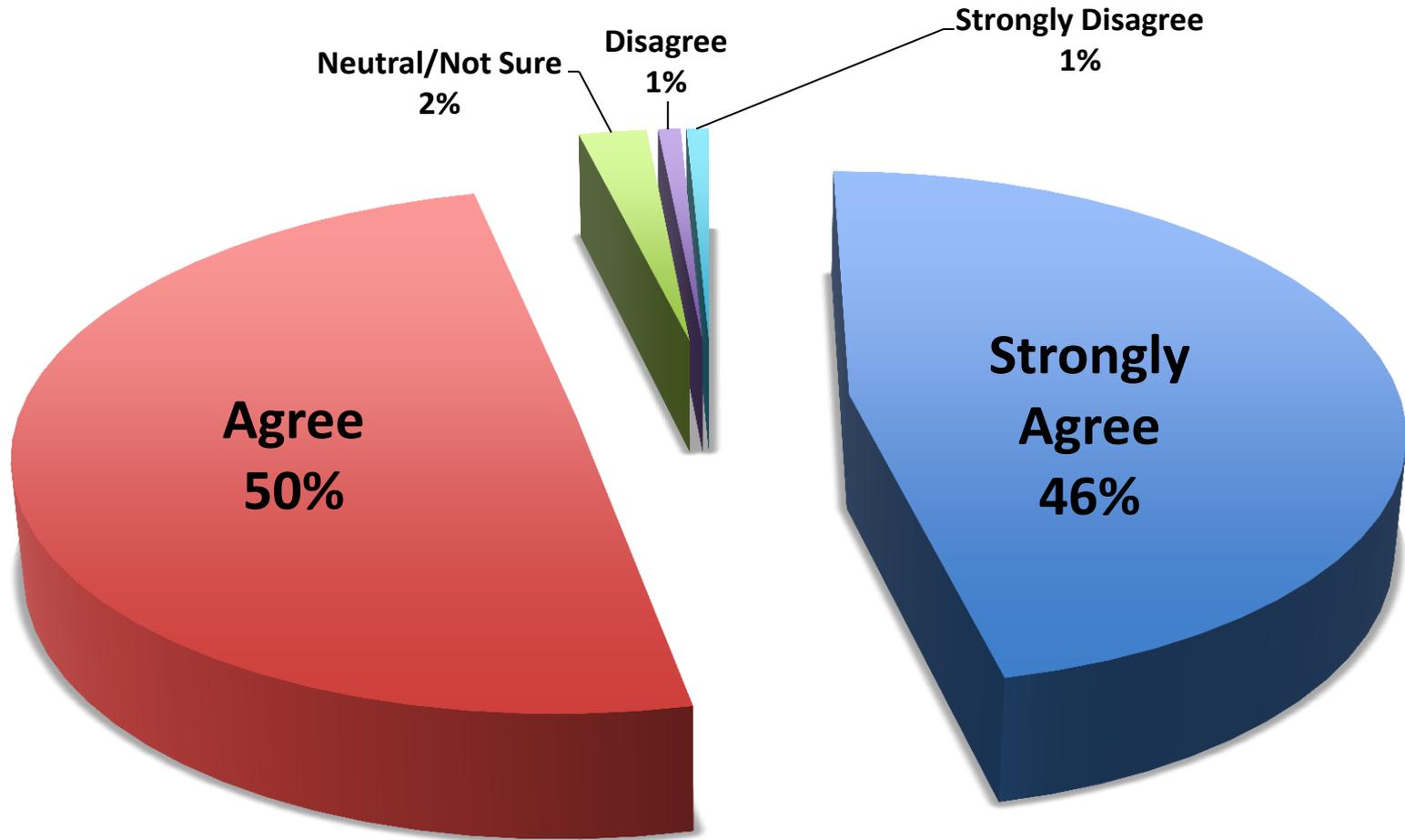
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*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

# Today' Workshop Was Well Facilitated

n=131



*A Summary of Interactive Polling from FloridaNet Listening Sessions in Jacksonville, Tallahassee, Pensacola, Deerfield Beach, Tampa, Punta Gorda and Miami, FL 2/25/14 through 3/20/14*

**Exhibit 42**



# Jacksonville 2.25.14

## Session 1

### Participants

Contact	Representing	email
John Moorhouse	Alachua County	<a href="mailto:jmoorhouse@asco.us">jmoorhouse@asco.us</a>
Ryan Lee	Alachua County	<a href="mailto:rlee@lachuasheriff.org">rlee@lachuasheriff.org</a>
Chris Parker	St. Johns County	<a href="mailto:cparker@sjso.org">cparker@sjso.org</a>
Steve Hayner	Duval County	shayner@coj.net
Michelle Poole	Motorola	<a href="mailto:Michelle.poole@motorolasolutions.com">Michelle.poole@motorolasolutions.com</a>
Bobby Calhoun	Hasty's Communication	b.calhoun@hastys.net
Bruce Windeshem	Hasty's Communications	<a href="mailto:BruceW@hastys.net">BruceW@hastys.net</a>
Kim Laidler	City of Jacksonville	<a href="mailto:KimI@coj.net">KimI@coj.net</a>
Lee Mathis	St. John's County	lmathis@sjcfl.us

### FloridaNet

- *The orientation slide deck materials were presented*
- *This process is bringing the entire state together to figure out how to build a public safety broadband network in FL. A technical needs assessment is needed to link this to a national network. Everybody has a chance to participate.*
- *Florida didn't set up a formal commission. They decided on a more decentralized and locally-focused entity for planning. It was understood that a top down from Tallahassee approach wasn't the way to go. The good news: everybody gets to participate. The bad news: Florida has 67 counties!*
- *The planning grant came out of Commerce: \$4.9 mil over 2 years. We have the resources necessary to get a good data assessment.*
- *A broad mix of over 120 public and private organizations has participated so far. More are expected. We have active involvement from both Tribal partners.*



# Jacksonville 2.25.14

## Session 1

### **Q: How did you pick private representatives?**

- *A: They showed up. We'll rotate folks through this. The challenge is this is a public-private grant. We're addressing very specific language in the grant. If they are too involved in the planning segment they can't be part of the rollout. We got guidance from the Federal side to better define expectations.*
- *It's important to understand that if vendors participate in the discussion they won't be able to bid on FirstNet. Proprietary information and what can be shared in a complex discussion.*

### ***SLIGP (State and local implementation grant program)***

- *NTIA has been very demanding on requirements for a relatively small (\$4.9 million) grant. Florida provided a 20% matching grant.*
- *Phase 2 will be data collection (begin in April). Most States are figuring out how to get organized. We expect to be focused on data collection by June*

### ***Planning dollars are different than implementation dollars***

- *Phase 2: 24 months comes after the inventory and business modeling*

### ***Next Steps***

- *Data elements will be collected*
- *Business models for FirstNet FL will be constructed*
- *Broadband coverage model from a Federal perspective will be completed*
- *Coverage workshops in June and November are planned*
- *GA/AL will discuss border coverage issues*
- *FEMA region 4 cross-border discussions are underway. Some radio coverage issues will get uncovered for rural community coverage in this process....the maps look great, but we all know there are gaps. The data collection step will help define what this coverage looks like.*



# Jacksonville 2.25.14

## Session 1

- *In-building coverage (\$7Bil sounds like a lot), but the reality is our model could spend all of this in FL if we want absolute goals of no areas we can't cover. These expectations are probably unrealistic.*
- *1<sup>st</sup> wall coverage with reduced coverage may be an alternative. We'll have to make choices to cover the entire nation.*
- *The model will need to partner with existing agencies and how the public safety band will be sustained and utilized. MANY decisions need to be made.*
- *We have to have local input to make good choices*
- *Radio Access Network can be confusing to legislators...and others because voice is not a component.*
- *How will we monitor 70+ simultaneous voice and video feeds if we get our wish lists? Being a video producer may be part of future management requirements!*
- *Some users are suspicious of 911 centers already. How will we backhaul it comm centers? LOTS of discussion on this will be necessary*
- *A process to track infrastructure (fiber/DSL/Cable) is needed. We have all the fiber (FOA) and know where it is. There may be other infrastructure we don't know about. How do we connect existing links? (i.e. Century links). Partners need to be involved to help make the right decisions*

### **FirstNet Deck**

- *The orientation slide deck materials were presented*
- *700 MHZ frequency was dedicated to public safety. This will be a separate, dedicated, noncommercial priority network for first responders*
- *Can we pay for it with conventional models? No...however, we have some ability to sell part of the spectrum. Some ability to piggyback with a portion of this for a fee....but priority access in emergency situation. A partnership process is the only way we stretch \$7Billion to build a national network.*
- *Piggyback on DoD contracts with Satellite uplinks for rural coverage without cell towers*



# Jacksonville 2.25.14

## Session 1

### **What will be possible?**

- *New tools for officers: air card and BEYOND*
- *New appliances and applications that will help first responders be safer. Broadband data will enable improved situational analysis (i.e. Bin Laden raid)*
- *Access to DoD contracts and RFIs are a crucial advantage for the future of public safety*
- *Public safety will rely on Land Mobile Radio (LMR) for mission critical voice. LMR isn't going to be replaced any time soon. A merge will take place 8-10 years down the road.*
- *MUCH standards development work needs to take place to enable secure voice over IP.*

### **Overview of the consultation process: what model will work in FL?**

- *We will put several options on the table we believe make sense for FL. A top down approach won't work!*
- *We work together to develop a state plan (or plans). Merge and scrub for a joint plan. We hope this will be close: a 1A or 1B.*
- *Leadership realizes we probably fail if we don't get this right*
- *Usability agreements: Feds on State systems need a lot of legal/financial agreements.*
- *Many MOUs for locals to participate are needed to secure permission and link it to capabilities.*
- *7 regions/7 case studies will be explored. They'll be reviewed from a FirstNet perspective to examine access/tradeoffs/costs. What will it for you to connect to the core architecture? Have a model for discussion that leads to a white paper.*

### **FirstNet core connectivity will be required**

- *How and at what costs are the questions. We need to identify partners willing to have white paper discussions that will frame how we'd make this work for regional systems. Think this through 3-5 years out.*
- *Stakeholders are all in...as long as it doesn't cost more than we're spending today.*
- *They can't extend budgets in most agencies. They can't go from \$40 to \$50/month per user.*



# Jacksonville 2.25.14

## Session 1

- **More value for the same dollar is the intent:** No more cost than you're paying today is the aim.
- The FirstNet Federal Model---what they think exists and who they think baseline users are
- A State Model will provide another perspective. It needs to include a lot of local perspective to show what coverage REALLY exists. It's great to put colors on a map, but it might gloss over 4 or more carriers providing coverage.
- All money needs to stay within FirstNet
- Identify the assets/technical capabilities/resiliency needed to help assess a complete piece.
- The private sector knows about many future capabilities that aren't yet deployed

### Data Sharing

- The orientation slide deck materials were presented
- We're looking at usable assets/coverage needs/number of users/current partners/features, equipment and pricing programs. This will be compared to what we already know: come back to partners and reality-checked.
- A parallel conversation is taking place with ISAAC options for sharing data. A "white hat" agency has been engaged to assess capabilities and set up private sector data portal. We'll use this to collect data from both groups. We'll layer this back in to State coverage maps to confirm capabilities and assets.
- We'll provide access to a secure network for comment
- A Statewide audit will provide a cut at capabilities...but local input will be the next step in confirming what's really there.
- Next Step: we have experts review the asset collection piece this summer.

### **Q: Who will do that for the smaller counties?**

- A: We'll have to bring in assets to help out. (i.e. Franklin County?)
- Cities may be better equipped to deliver this than counties. They may be the culminators of data.
- We may find things we never knew we had. (i.e. black fiber)
- We have most of the towers that will be needed. We know where they are.
- As you drive, you'll still be connected to your network. We can connect voice and data cores, even though LMR won't work that way.



# Jacksonville 2.25.14

## Session 1

- *What Counties want to be involved in preliminary negotiations/horse trading?*
- *i.e. a FirstNet responder exercise that will inform other counties?*
- *SWOT: much more than physical capabilities. Part of data gathering will be our perceptions.*
- *ISACCouncil.org (power companies and other private sectors)*
- *Include border discussion with mapping to GA.*
- *Have Regional team explore security and data handling*
- *80-85% data is what you'll see for next round. It's pretty comprehensive*
- *Secure server network is being set up to poll new infrastructure (towers, etc.) It updates real time.*

### **How to Participate**

- *The orientation slide deck materials were presented*
- **REGISTER!** *A membership admin package will schedule events and online collaboration for addressing very specific elements of the plan for you and your team.*
- *Stay current on what Federal partners are sharing. Be sure changing issues are constantly being updated.*

### **Discussion Notes**

We would like to bring in County commissioners and planers. Lots more discussion at the municipal decision maker level is needed to help them understand what's coming their way and the implications for their future infrastructure.

### **What are the implications in Jacksonville?**

1. Jump on board now because future Federal Grant will be linked to this. Get in early so we know options early....do what's necessary via Governor and Congressmen to educate and build support for this effort. Let's build a model for something WE can utilize vs. having someone else's model imposed.
2. The legislation provides Florida an option opt out capability if we think we know more or have a better way to go. The barriers are high if this alternative is selected. Going it alone has a lot of downsides.
3. **We can be sure that the plan that emerges is designed to meet our needs with a limited funding stream**



# Jacksonville 2.25.14

## Session 1

4. Public/private partnership---what's the reality check? It's back to sustainability. We'd like it all, but from a carrier perspective the business model has to deliver ROI. Re-use of spectrum will be crucial for accomplishing this.
5. The plan must anticipate how to deal with ramp-up and ramp down cycles. It must provide a capability to use spectrum during non-peak times.
6. Balancing the needs of land line operators is key.
7. Can we build a Florida network that everyone would have access to? Maybe, but maybe that pushes out a carrier we rely on today.
8. LMR scenario: folks were selling microwave connectivity. Installing a backhaul network that's bigger than microwave can handle is a concern. There are MANY moving parts to balance and manage.
9. Region 3's 2 largest users are Jacksonville City, Alachua County and utilities. Tough discussions will be needed to determine who is part of the process. We really need a deep pool of participants to make informed choices.
10. ROI will drive business models. The timelines for this could change after the infrastructure gets built out. 60/40 both ways? Tough discussions and negotiation at many levels need to be expected.
11. Get carriers on board early. GRU is a MUST to have at the table. They can't be in a losing position financially. It LOOKS like this is a done deal...how we get there is the key. If we can at least not lose money we're ahead of the game.
12. Vendors are looking at new business models....what will our core business be 10 years from now? They have to be able to see things that don't yet exist
13. Mobile data broadband utilization and demand is exploding
- 14. It's to everyone's advantage to participate and make a workable legacy for the future of first responders**
15. How will we access? What applications will be used? N-card data/telematics?
16. New appliances and apps will replace radio systems. These come with a price. Expect a suite of capabilities.
17. What will the apps be? Will providers build better apps? A Hurricane evacuation app for the southeast is one of the key regional needs that has been identified. Digital maps of traffic flow are an important regional need that is being discussed.



## Jacksonville 2.25.14

### Session 1

18. Core backhaul will be the biggest component of the network. This will be much larger than the over the air bandwidth. Once the signal gets to the tower something must be done with it. This will be a significant challenge.
19. We will have lots of video, but managing it will be a challenge. Dispatchers may need to be video producers to some extent 10 years from now!
20. Why would Verizon modify their infrastructure if we start to mess with existing profitable infrastructure? **This will be on top of existing infrastructure...an overlay not a replacement**
21. This can't be a \$500/month/user plan: has to work in current budgets.
22. Region 3: majority of counties are rural. For some counties we don't even have a \$42 month budget.
23. If it breaks who fixes it....and how fast?



# Jacksonville 2.25.14

## Session 1

### Interactive Polling Results

All Participants		
<b>Your Affiliation?</b>		
First Responder	1	11.1%
Public Official	1	11.1%
Operations	2	22.2%
Administrator	2	22.2%
Private Sector Corporation	3	33.3%
Private Citizen	0	0.0%
Press/Media	0	0.0%
Other	0	0.0%
N		9
<b>If You're a FIRST RESPONDER...What Best Describes Your Function?</b>		
Fire	0	0.0%
Law Enforcement (gun toter)	1	33.3%
EMT	0	0.0%
Other	2	66.7%
N		3



# Jacksonville 2.25.14

## Session 1

<b>How Did You Learn About Today's Workshop?</b>		
Conference	0	0.0%
Newsletter	0	0.0%
Email	7	77.8%
Colleague or Boss	2	22.2%
Press Release	0	0.0%
Other	0	0.0%
	N 9	
<b>I'm Knowledgeable About FirstNet</b>		
Strongly Agree	0	0.0%
Agree	2	22.2%
Neutral/Not Sure	4	44.4%
Disagree	1	11.1%
Strongly Disagree	2	22.2%
	N 9	
<b>I'm Knowledgeable About FloridaNet</b>		



# Jacksonville 2.25.14

## Session 1

Strongly Agree	0	0.0%
Agree	1	11.1%
Neutral/Not Sure	6	66.7%
Disagree	0	0.0%
Strongly Disagree	2	22.2%
N	9	

### **I'm Interested in Being Involved in FloridaNet Planning Efforts**

Strongly Agree	1	11.1%
Agree	6	66.7%
Neutral/Not Sure	2	22.2%
Disagree	0	0.0%
Strongly Disagree	0	0.0%
N	9	

### **I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety**

Strongly Agree	6	66.7%
Agree	1	11.1%
Neutral/Not Sure	1	11.1%
Disagree	0	0.0%
Strongly Disagree	1	11.1%
N	9	



# Jacksonville 2.25.14

## Session 1

<b>Today's Workshop Addressed My Questions About FloridaNet</b>		
Strongly Agree	5	55.6%
Agree	2	22.2%
Neutral/Not Sure	2	22.2%
Disagree	0	0.0%
Strongly Disagree	0	0.0%
N		9

<b>Today's Workshop Addressed My Questions About FirstNet</b>		
Strongly Agree	3	33.3%
Agree	6	66.7%
Neutral/Not Sure	0	0.0%
Disagree	0	0.0%
Strongly Disagree	0	0.0%
N		9

<b>I Understand My Options for Participating in FloridaNet Planning Efforts</b>		
Strongly Agree	3	33.3%



# Jacksonville 2.25.14

## Session 1

Agree	4	44.4%
Neutral/Not Sure	2	22.2%
Disagree	0	0.0%
Strongly Disagree	0	0.0%
N		9

### Today's Workshop Was a Good Use of My Time

Strongly Agree	3	33.3%
Agree	4	44.4%
Neutral/Not Sure	2	22.2%
Disagree	0	0.0%
Strongly Disagree	0	0.0%
N		9

### The Workshop Was Well-Designed

Strongly Agree	3	33.3%
Agree	5	55.6%
Neutral/Not Sure	1	11.1%
Disagree	0	0.0%



# Jacksonville 2.25.14

## Session 1

Strongly Disagree	0	0.0%
N		9
<b>Today's Workshop Was Well Facilitated</b>		
Strongly Agree	7	46.7%
Agree	7	46.7%
Neutral/Not Sure	0	0.0%
Disagree	0	0.0%
Strongly Disagree	1	6.7%
N		15



# Jacksonville 2.25.14

## Session 2

### Participants

Contact	Organization	Email
John Roberts	FWC	<a href="mailto:John.roberts@myfwc.com">John.roberts@myfwc.com</a>
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Quintin Jones	FDLE	<a href="mailto:quintinjones@fdle.state.fl.us">quintinjones@fdle.state.fl.us</a>
Calvin Williams	RDSTF3 (EM Planner)	cwilliams@nefr.org
Barry E. Fox	St. Augustine Police Dept.	bfox@sapd.ci.st.augustine.fl.us

### FloridaNet

- The orientation slide deck materials were presented

#### **Q: Will this replace existing capabilities?**

- No, this won't replace radio (for a LONG while). This is about data

#### **Q: This sounds like a VPN for each agency. How will each be separated?**

- This will be a national network. CEGIS level security with all protocols built. The The planning grant covers a lot....but no infrastructure is included. This round is solely for planning and organizing.
- We need everyone engaged to help design a sane/rational system that protects our officers. Let's be proactive and avoid letting others determine what's best for Florida. Our aim is to win or lose fast on evaluating practicality/feasibility to make this determination.

#### **Q: Where do we have air card coverage? Where don't we?**

- The current maps are a pretty accurate starting point of State and Local data. Audited coverage nets area available. These will be overlaid with FloridaNet coverage and merged. The results will be shared with teams in future workshops to identify gaps and missing coverage areas.

#### **Q: How will city and counties determine needs and capabilities?**

- Each discussion will be a one-off, ideally with teams who can bring multiple viewpoints, leadership and levels of organization.



## Jacksonville 2.25.14

### Session 2

- *Some counties will have to rely on neighbors for their IT staff. Resource rich “have’s” and resource poor “have-nots” will need to figure out how to collaborate...and how to integrate private networks. Power companies will be key partners in this discussion.*

#### **FirstNet Deck**

- *The orientation slide deck materials were presented.*
- *This is not all new fiber. We will be taking advantage of extra spectrum and existing capacity. Lots of negotiation and horse trading will be required.*
- *LTE enables very specific targeting of distributing priorities, access and bandwidth. In an emergency FirstNet will pre-empt all traffic from the Public Safety network*
- *Local capabilities to make these allocations*
- *We need to be able to clearly state what we need and want when it’s time to sit down with the Governor.*
- *\$7 billion sounds like a lot, but it’s not. \$100 billion might be more realistic to create a national network with dedicated technicians using dedicated public safety standards from scratch.*
- *Our role in coordination will mean a different future model for LE and fire fighting. Appliances and applications will look very different for smart decision making. Big data is going to dramatically change how crucial public safety choices will get made in the future.*
- *We know how much money has been spent on FIN and interoperable networks. It’s scary to some how much has been spent. There are many questions about local agencies ability to pay for larger/faster bandwidth. This is an important distinction. Agencies will determine, and pay for, the applications and services that are most useful and appropriate for attaching to the core national network. They will not be paying for the core national network.*
- *The goal is to match current services at current pricing. Additional capabilities and apps will also be available. Think iTunes store, with a wide variety of options and a range of free and subscriptions available for users.*



## Jacksonville 2.25.14

### Session 2

- *Don't think of the current Harris/Motorola LMR model. This will be about open standard many can design to. Expect massive elbowing in the marketplace as they figure this out*
- *How do we get users to use it? A SLERS survey asked what do you like? It found many are paying too much for radios that have great capabilities that are seldom fully understood or used. Patrolmen and women need a \$1K unit with simple, press a button capabilities more than they need a \$7k unit with dozens of channel options that are complicated to understand and use.*
- *Regional Priority: A hurricane evacuation app for cross border evacuation coordination has been identified as a key need.*
- *More organization is needed to get clarity on how things are working on a regional basis.*
- *LMR will NOT do mission critical voice until LTE capabilities exceed current functionality....but when it does, expect massive demand for it. LMR Radio will be in place for 10-12 years. We believe there will be rapid push to get rid of radios as this begins to deploy. If cops know there is something better available we think they'll be beating down the doors to get this. This is the DBlock we've been looking for! Unfortunately, this will take time.*
- *The reason this will take a LONG time is a lack of international technical standards for mission critical voice over the internet.*
- *Piggybacking on DoD makes a lot of sense financially (satellite capacity)*
- *We get to build this and influence the plan. We will present this to the governor within 18 months. Let's get out in front and see if this makes any sense...but make the best recommendation people who understand the needs can make. We hope to go with one plan. FirstNet shares the goal of one network; an internet for public safety.*

#### **Q: What will new appliances look like?**

- *Many are existing applications that have been in use and are being de-classified by the Department of Defense.*
- **Take Federal, overlay with state, validate with local/regional knowledge**
- *There's no coverage in Wildwood....and other places in FL*



## Jacksonville 2.25.14

### Session 2

- **Two groups have been hired**
  - *One to do the business modeling (separate audit from FirstNet to determine lowest cost/highest value*
  - *One to review the technical capacity of the network (white hat group) to let us know if the technical capacity will get us to the next level*
- *A neutral 3<sup>rd</sup> party review of network capabilities and coverage will be in our hands when the FloridaNet plan is presented to the Governor.*

#### **Data Sharing**

- *The orientation slide deck materials were presented*

#### **How to Participate**

- *The orientation slide deck materials were presented*



# Jacksonville 2.25.14

## Session 2

### *Interactive Polling Results*

All Participants		
All Participants		
<b>Your Affiliation?</b>		
First Responder	1	20.0%
Public Official	0	10.0%
Operations	0	20.0%
Administrator	0	20.0%
Private Sector Corporation	0	30.0%
Private Citizen	0	0.0%
Press/Media	0	0.0%
Other	0	0.0%
	N	1
All Participants		



# Jacksonville 2.25.14

## Session 2

<b>If You're a FIRST RESPONDER...What Best Describes Your Function?</b>	
Fire	0
Law Enforcement (gun toter)	1
EMT	0
Other	2
N	3
All Participants	
<b>How Did You Learn About Today's Workshop?</b>	
Conference	0
Newsletter	1
Email	2
Colleague or Boss	2
Press Release	0
Other	0
N	5
All Participants	



## Jacksonville 2.25.14 Session 2

<b>I'm Knowledgeable About FirstNet</b>	
Strongly Agree	0
Agree	0
Neutral/Not Sure	1
Disagree	3
Strongly Disagree	1
N	5
All Participants	
<b>I'm Knowledgeable About FloridaNet</b>	
Strongly Agree	0
Agree	0
Neutral/Not Sure	1
Disagree	2
Strongly Disagree	2
N	5
All Participants	



## Jacksonville 2.25.14 Session 2

<b>I'm Interested in Being Involved in FloridaNet Planning Efforts</b>	
Strongly Agree	1
Agree	1
Neutral/Not Sure	3
Disagree	0
Strongly Disagree	0
N	5
All Participants	
<b>I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety</b>	
Strongly Agree	2
Agree	3
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	5
All Participants	



## Jacksonville 2.25.14 Session 2

<b>Today's Workshop Addressed My Questions About FloridaNet</b>	
Strongly Agree	3
Agree	2
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	5
All Participants	
<b>Today's Workshop Addressed My Questions About FirstNet</b>	
Strongly Agree	3
Agree	2
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	5
All Participants	



## Jacksonville 2.25.14 Session 2

<b>I Understand My Options for Participating in FloridaNet Planning Efforts</b>	
Strongly Agree	2
Agree	3
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	5
All Participants	
<b>Today's Workshop Was a Good Use of My Time</b>	
Strongly Agree	2
Agree	3
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	5
All Participants	



## Jacksonville 2.25.14 Session 2

<b>The Workshop Was Well-Designed</b>	
Strongly Agree	2
Agree	3
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	5
All Participants	
<b>Today's Workshop Was Well Facilitated</b>	
Strongly Agree	2
Agree	3
Neutral/Not Sure	0
Disagree	0
Strongly Disagree	0
N	20



# Jacksonville 2.26.14

## Session 3 & 4

### Participants

Name	Organization	Email
Lorin Mock, Fire Chief	Clay County Dept. of Public Safety	Lorin.mock@co.clay.fl.us
John Ward, FPEM	Clay County Dept. of Public Safety	John.ward@claycountygov.com
<i>Afternoon</i>		
Bill Petrea	Flagler County Sheriff's Office	

### FloridaNet

- The orientation slide deck materials were presented

### FirstNet

- The orientation slide deck materials were presented

### Data Sharing

- The orientation slide deck materials were presented

### How to Participate

- The orientation slide deck materials were presented

### Discussion Notes

**Q: Will there be any guarantee of additional funds once the planning process is completed?**

- SLIGP: if you opt in they pay for it. Opt out and FL is on our own
- Flagler data coverage is "pretty terrible." We're a have-not relatively speaking.

### **DBlock Discussion**

- FirstNet IS Dblock. This is how it's getting implemented (understand this better)
- Some disappointment was expressed FirstNet hasn't included mission critical voice yet. It's important to understand why. A non-mission critical, Skype-like



## Jacksonville 2.26.14

### Session 3 & 4

*option can be available immediately. International standards must be developed to make mission critical voice a reality. This won't happen easily or quickly any time in the next 5 years.*

- P25 integration can be a tough sell. Commissioners ask, "Isn't new technology coming out?" Yes, but we'll run the life of this in 10 years. This can be tough to explain to a smart public official who is eager to leverage new technology.*
- The SLERS survey of over 2,000 responses made it clear patrolmen don't need \$7k radios. They just need 2 bands and the ability to hit a button and talk. They have little need for group talk or channel settings they can't easily program. Flagler has 16 programming configurations: may use 1 or 2. Highway patrolmen can get lost in the knobs.*
- A \$500-\$800 device appears more suitable for the future. This won't shrink budgets, but would allow the difference to be invested in smarter enforcement*
- To a large degree this will piggyback on existing infrastructure*
- From a county perspective you'll be able to prioritize access and be part of the trip points for override situations.*
- BAN (broadband access network) not RAN (radio access)*
- A lot of disappointment is lack of understanding of how FirstNet works. Timelines are unrealistic on some fronts and do not fully include the reality of State legislative processes.*
- At the end of this phase we'll identify some planned alternatives and critical criteria*
- Anticipate problems with bigger entities willing/able to share infrastructure. The SC experience was that they weren't interested in sharing any.*
- Ultimately, this will be a legislative decision. City tax/County tax/State tax for public safety are not being coordinated and effectively leveraged.*
- Can we make a sexy package for Miami Dade that they'll be interested in?*
- Regional application for hurricane evacuation is one of the top priorities for regional responders. Earthquakes are another potential app for regional response coordination.*



## Jacksonville 2.26.14

### Session 3 & 4

- *We will build a FloridaNet we HOPE will be close to a FirstNet model. May or may not be.*
- *A 3<sup>rd</sup> party review will provide a technical audit of the plan (unlike a vendor)*
- *A business model audit will also be completed (sustainable business model/profitability on financials and infrastructure design). We expect to deliver this within 2 years*
- *Overall, we're cautiously optimistic on this: let's win fast or lose fast. Some Federal legislation may be needed to make this work better. The partners who are first in will have great influence determining what ultimately gets built. Let's lead in Florida.*
- *SC/TN/AL are unable to utilize the SLIGP grant as it stand: they are unable to match employee time.*
- *SC misses a lot of grant dollar opportunities due to slow reaction and lack of follow-ups.*
- *Kevin Guthrie EMS for JAX Sheriff's office (Flagler) knows a lot of people. Probably a very useful point of contact.*
- *LTE is a different world: not cellular or voice. Backhaul is the issue. Coverage is only a portion of the coverage conversation. How will backhaul get covered? It's possible our coverage may decrease somewhat when full backhaul consideration is included.*
- *Local control will be provided for priorities. Regional/State/Federal capabilities will be set for prioritizing access. When Air Force One lands everything changes!*
- *Excess capacity will be leased to the commercial sector to underwrite the public safety build out. This will facilitate FirstNet partnering with the private sector but does not require piggy backing on the private sector network.*
- *FirstNet will be a dedicate serviced. Priority and management will be given to and driven by local public safety.*
- *Key interest in FirstNet is voice for Bill. This would be a terrific selling point. We're hearing this over and over in the listening session. If you prioritize voice, this becomes a different discussion.*



## Jacksonville 2.26.14

### Session 3 & 4

- *Standards will continue to be involved. This should lead to less industry control over the future of development.*
- *Let's influence as much as possible the plan that FirstNet is bringing to the Governor. Let's examine this critically and point out plan/capacity weaknesses as soon as possible.*
- *There is no ability to make money on the network. A private equity partner would solve this. We are only allowed to get cost recovery VTOP. AL/MS/AR were collaborating successfully and had to dismantle a successful/innovative program. This is a huge concern for many partners.*

~~XXXXXXXXXX~~  
JAN 14/11

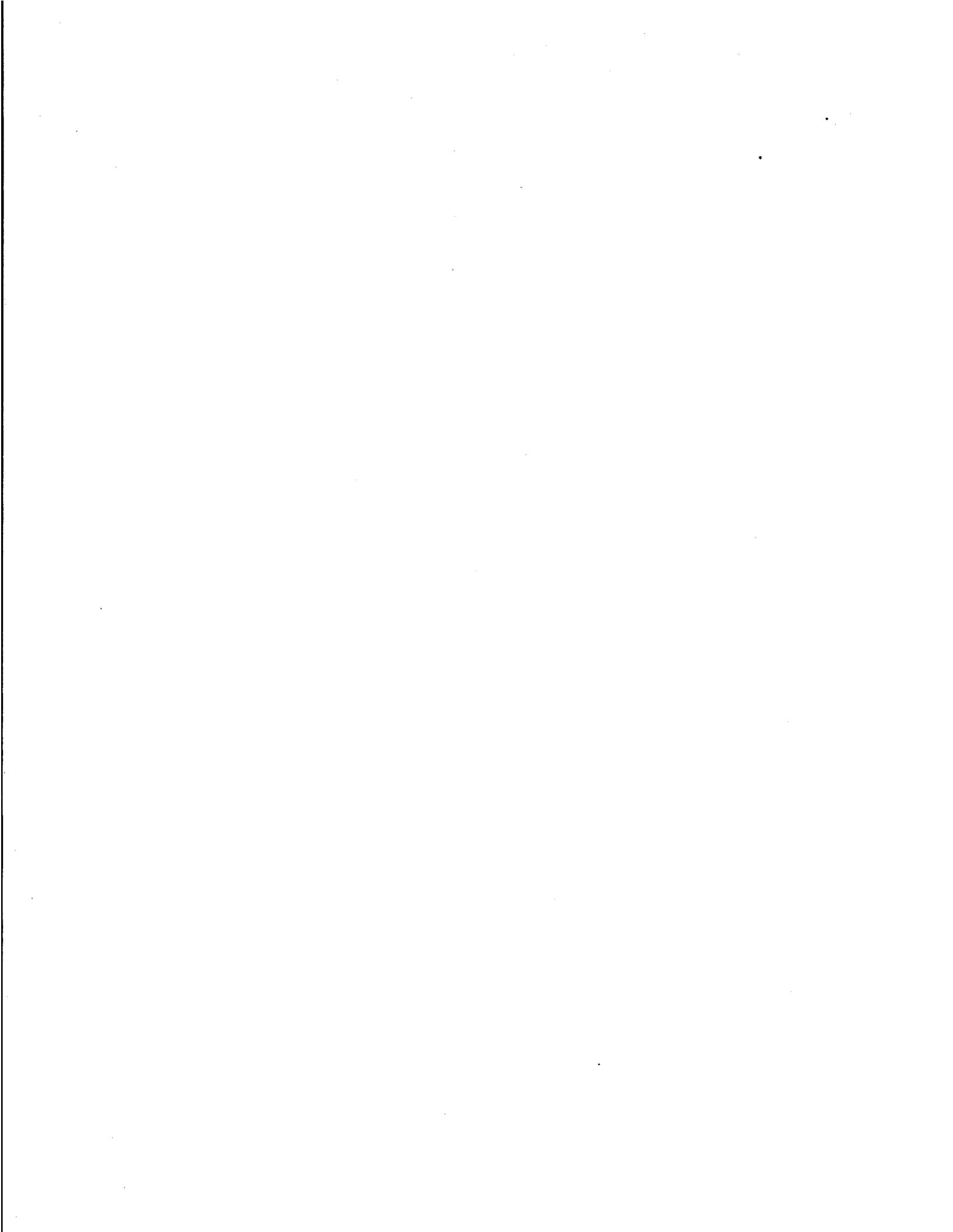
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Michelle Poole	Motorole	<del>michelle.stott@</del> michelle.poole@
Robby Calhoun	Hardy's den b. Calhoun @ hardy.s.net	motorolasolutions.com
Bruce Winderheim	HASTY'S COMMUNICATIONS	brucew@hasty.s.net
KIM LAIDLER	CITY OF JACKSONVILLE	KIML@COS.NET
LEE MATHIS	ST. Johns County	Lmathis@sjcfl.us

AFRICAN

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BERRY E. FOX	ST. AUGUSTINE POLICE DEPT	bfox@sapd.ci-st-augustine.fl.us

DAY DAY II ANSWERS

NAME	TITLE	AFFILIATION	EMAIL
L Petrea	Comm. Manager	Flagler County SO	lpetrea@flaglerstate.com
HN WARD	DEPUTY DIRECTOR	CLAY EM	JOHN.WARD@CLAYCOUNTY
Luis Mock	Fire Chief/Emergency Manager	Clay Co. Public Safety	louis.mock@claycountypa.gov



**Exhibit 43**



# Tallahassee 2.27.14

## Session 1

### Participants

<i>Name</i>	<i>Organization</i>	<i>Email</i>
<i>Carlton Whaley</i>	<i>Franklin County Sheriff's Office</i>	<a href="mailto:whaley@franklinsheriff.com"><u>whaley@franklinsheriff.com</u></a>
<i>Allen Ham</i>	<i>Franklin County Sheriff's Office</i>	<i>a.ham@franklinsheriff.com</i>
<i>Charles Radcliff</i>	<i>Florida Forest Service</i>	<i>Charles.radcliff@fresfromflorida.com</i>
<i>Christopher Sella</i>	<i>FWC</i>	<i>Chris.sella@myfewc.com</i>
<i>Timothy Lee</i>	<i>Consolidated Leon County Communications</i>	<i>Timothy.lee@tlcco.org</i>
<i>Billy Fair</i>	<i>Leon County Sheriff's Office</i>	<i>Fair2@leaocountyfl.gov</i>
<i>Nick Simoncini</i>	<i>FDLE</i>	<i>nicholassimoncini@fdle.state.fl</i>
<i>Burt Himmer</i>	<i>DFS, Insurance Fraud</i>	<i>Burt.himmer@myfloridacfo.com</i>
<i>Bobbie Jo Chambers</i>	<i>Gasden County Sheriff's Office</i>	<i>bobbiejchambers@tds.net</i>
<i>Samantha O'Brian</i>	<i>Gasden County Sheriff's Office</i>	<i>samanthaobrian@tds.net</i>
<i>Jon Erwin</i>	<i>FL Dept. of Health</i>	<a href="mailto:Jon.erwin@flhealth.gov"><u>Jon.erwin@flhealth.gov</u></a>

### FloridaNet

- *The orientation slide deck materials were presented*
- *Coverage is different in this world. Jay's here to help us clarify*
- *\$7 billion is a nice starting point, but some perspective is required. Verizon INDEPENDENTLY, spends \$11Bill on maintenance*



## Tallahassee 2.27.14

### Session 1

- *SLIGP phase 2: what are the assets and capabilities? How will we prioritize incident response? Participants should expect to be involved in the by June. Coverage and infrastructure maps will be available for review.*
- *FloridaNet is NOT highway safety's project...it's FLORIDA's project. DHSMV is managing the contract...it flows through the agency but it is not the agency's project....think of Gregg Holcomb as the point man.*
- *Stakeholders aren't getting run over on this...we are being invited to participate fully on this project.*

#### **FirstNet Deck**

- *The orientation slide deck materials were presented.*
- *The FirstNet network is 100% dedicated to public safety on 700 MHz spectrum. This is FAR more bandwidth than will be needed for the projected 5.5 million public safety users. This was the old TV part of the spectrum that was taken away.*
- *Hardening requirements will vary by region. CA/FL needs are different. We will define this in the planning process for Florida.*
- *Response needs will be very different on the network. We won't need 365 channels. This is NOT a NEW RADIO NETWORK. Radio network is likely to remain in place for 10+ years. The conversion won't happen quickly. Experts think at least 10 years on LMR should be anticipated.*
- *We're not even close to standards on LMR. We have no similar backup for technology/standards on LMR. ITS GOING TO BE AROUND FOR A WHILE!*
- *NON MISSION CRITICAL voice may be part of the first deployment. MISSION CRITICAL voice will remain separate for quite a long time. A Skype-like app may be available, but it won't be public safety grade. VOIP will be OK for this.*
- *THIS IS NOT A CELLULAR NETWORK...IT'S A DATA NETWORK. DIFFERENT MODEL.*
- *LMR's difference from broadband: SealTEAMS don't use radios. Different applications will require different tools.*
- *Big data (Watson) will enable us to make critical decisions quickly*



## Tallahassee 2.27.14

### Session 1

- *IBM/Ft. Lauderdale test case. These tools will change the way public safety is delivered.*
- *New capabilities aren't always helpful for everyone. YOU will get to choose the apps, what you use (and don't use). Chem/Bio example. "I want to be able to talk out of the building 100% of the time." This is a big point.*
- *FirstNet will be delivering larger bandwidth and faster access to information needed to need public safety missions. Open platform...think iPhone. Open architecture means there will be less future ability to lock users in to technical requirements.*
- *Miami is about all who has P25. The P25 standards have made prices go up. This is a first. Proprietary system was available for 1.10<sup>th</sup> of the cost. Weird. We'll be able to leverage economies of scale of millions of users with FirstNet.*
- *FirstNet has to be delivered at a cost point users can afford. This means it's the highway patrolman's air card.*
- *Hardening will affect this somewhat....but we expect a very different business case.*

**Q: Is FN looking at piggybacking off existing towers? Will this be a SLERS system with broadband data transmission across the state?**

- *A: Essentially yes. Functionally yes. They will piggyback on commercial AND public sector infrastructure too.*
- *We've GOT to identify private and public assets. Miami is in good shape. Big concern for them will be the cost to connect to the common core. They can plug in...but have pretty much everything they need.*

**Q: Is a per-user subscription fee envisioned?**

- *A: A monthly fee will go to some entity. Business models haven't been developed yet, but design assumptions clearly understand what users are currently paying is about what they will be able to pay in the future.*
- *SmartCOP is one of the bigger CAD systems in FL.*



# Tallahassee 2.27.14

## Session 1

- *Key would be the applications WE want to run will be on FirstNet. We can connect anything we want to it. If FL decides SMARTcop is working we need to think through the smartest way to make it available. You can pick and choose individual apps locally.*
- *This is like private access to the internet. Traffic goes to a public safety core. There will be a connection from the public safety core to the internet. Controlled, but connected. Example: responders will be able to connect to non-Public Safety webcams (i.e. conventional internet) from the public safety core. This will be a tremendous advantage.*
- *Hurricane/IceJam traffic peaks won't shut down the PS core network*
- *NextGen 911: this doesn't affect when the public calls you. With this, you'll be able to share data/reports with users in the field via the PS core. A strong/fast/reliable way to push out things through the same, secure private public safety network. Like having the FL CNet everywhere.*
- *On the land side all traffic will run through the same copper/wireless/fiber.*
- *On the wireless access side is where the access problems happen. This is where a private public safety network will shine.*
- *We can't force anybody to subscribe. Some poorer Counties won't be able to play.*
- *Nationally building in capability to roam over to commercial carrier. Strictly an expert opinion: this is likely to be built into spectrum agreements*

### **Q: What about coverage issues?**

- *A: Don't think LMR coverage. Think: "where will we need more/better coverage?" Where are we likely to have incidents we'll be likely to require response? These answers will be driven by what we can afford. As an example: AK can't provide 100% coverage...can't ever afford it.*

### **Q: How do we address the rural slide rationally?**

- *A: Given the budget we'll have, how will we prioritize the locations we'll need a data response that's **immediate and on demand?** We will need to prioritize investments in regional task force sessions.*



## Tallahassee 2.27.14

### Session 1

- *FirstNet took the core from Homeland Security and piggybacked on Department of Defense contracts and coverage. This opens up much better rates for satellite in remote areas. FWC needs to be able to do data tickets remotely. What do we need as users? We've got to have full engagement from partners to determine priorities*
- *Covering every square meter of the country doesn't necessarily mean a tower in every part of the country. A clear picture of what FL needs has to be defined. Needs requirements to build this out have to be identified (20 miles offshore, ticketing in the boonies, other key requirements)...and pricing programs so we can build the business model.*
- *We'll frame choices for instant "gotta have" Public Safety data in the next round. This will give our decision makers a well thought range of options and provide an objective view of the options available. This is GTRI's role.*

#### **Q: Who are the potential users and needs?**

- *A: Local agencies will define this. In the Katrina example the first priority was assigned to people with dogs to quickly identify potential survivors. Agencies will establish default settings (i.e. Board of Education may be a low priority until there is a need to evacuate people)*
- *The system will dynamically assign priorities across the country to identify people with key public safety skills*
- *LTE does allow us to create priorities. It can handle frequency assignment in different ways. Public Safety will own this capability. We functionally control this. THIS IS THE BIG PIECE FOR EMERGENCY EVENTS. When there isn't a response situation access will revert to commercial traffic*
- *This part of the spectrum has INCREDIBLE value. Private sector would spend billions for access to this. It is truly "beachfront property."*
- *So how do we get there? We don't know. Let's build and design what we need and shoot back to the Feds. Let's win or lose quickly. Figure it out now and offer up the design.*
- *If we don't participate there will still be a FirstNet. This is a great opportunity to reinvigorate some regional planning teams that has atrophied somewhat.*



# Tallahassee 2.27.14

## Session 1

### Data Sharing

- *The orientation slide deck materials were presented*
- *Groups will be looking at composite maps of their individual regions. They will EDIT what's there...there will be no need to compile this from scratch.*
- *A data portal will provide CEGIS level access for all to verify data sets*
- *Domestic Security Task force*
- *June/July workshops will introduce the tools and administration needs.They will verify and correct what's there at a county level. We re-seam and update coverage maps...THEN*
- *We re-assemble the regional teams and begin review of priority areas that need to be enhanced. REGIONAL meetings are where we need to have all agencies represented. This happens in the fall.*

*By next January we'd like to have:*

- *Big maps complete*
- *General priorities established*
- *Current equipment/features and pricing (high level)*
- *THERE IS NO NEED TO WAIT FOR FIRSTNET to provide specific list of data elements that was promised for 3/2014. We can get busy immediately.*
- *GTRI (Jay) will be the neutral 3<sup>rd</sup> party who can look at ISAC data and share with private sector. His group will be protected by FL law for non-disclosure.*
- *2 public sector data portals will support the project*
  - *One for local partners to review and share data with FloridaNet*
  - *One for a designated interim working group to review and compare FloridaNet data with FirstNet data (high level of security). Small group/highly controlled for scrubbing and seaming. In room conferencing, not web-access for this segment.*
- *Nobody else in the country is even close to thinking at this level yet!*



# Tallahassee 2.27.14

## Session 1

### How to Participate

- *The orientation slide deck materials were presented*
- *The prioritization step needs participation from key organization!!*
- *A Speaker's Bureau has been established. Contact us if there is a gathering of public safety members where a FirstNet/FloridaNet briefing can be helpful.*

### **Q: What does this look like on a tower?**

- *A: This is not LMR. Antennas are bigger and heavier. They have different loading characteristics. It's not just where it is/how tall it is. IT WILL BE DIFFERENT: loading and other specs may have a 2<sup>nd</sup> round of inquiry about the wind load they can handle. We will need to engage interference issues/age/height many other criteria*
- *FL has pretty good cell coverage for voice. Decent infrastructure (maybe owned by different people). In FL we should be in pretty good shape to fill in a few additional towers. Even in rural areas we're in better shape than many western states. 100 miles wide can be covered with 2 lines of towers*
- *LTE towers require a higher density of towers due to smaller coverage footprints. With LMR capacity gets added by adding channels. LTE means every tower has every channel*
- *With LTE the speed you get depends on proximity to tower. It drops with distance. This is why honeycombing is crucial. What kinds of speeds are needed? The answers to this question will drive LTE antenna placement.*

### **Q: Will FloridaNet be grand funded?**

- *A: There are no additional grants. Opt-in means we accept the plan FirstNet delivers. If we participate and provide data it's our hope this will be close. If we opt-in. FirstNet will pay for building and maintenance. It's Federally funded through legislation. \$7 billion to launch. Subscriber fees will follow from users to produce revenue a stream. They will operate as a carrier.*
- *Tower access will be negotiated with the State of FL.*
- *Maintaining FIN is a headache*



# Tallahassee 2.27.14

## Session 1

- *If FL opts out....we can apply for access to bandwidth. NTIA plan to connect to the core. Then apply for grant money to build ourselves.*
- *When we gather the data there are options. Private equity partners are interested in funding the buildouts if there is a valuable system and ROI.*
- *6 members of the FirstNet Executive Board understand the need for a sustainable, competitive business model. FirstNet needs a compelling process and business model. They understand the reality that this must be something users want. They understand this is ultimately the right thing to do for public safety.*

### **Q: Will there be an option to “opt in conditionally?”**

- *A: This will be an iterative process and most States are expected to offer a “yes, but” option. Experts believe we’ll have an alternative to offer learnings and counterpoints and some minor tweaks. FirstNet needs subscribers or the system won’t work.*
- *AT&T Universal access model work pretty well. FL is a “have” state. For western states to have the same coverage significant subsidization will be required.*
- *\$7 billion is coming from spectrum auctions. NOT FROM TAXPAYERS. This is a win-win for everyone.*
- *The Executive Committee has recommended moving forward. We’ll have more influence if we play as a partner. Let’s not be a whiner state Why wait? Let’s in first, fund the next phase and establish FL as a good partner. A in region 4 is a win for all.*

### **Q: What about security?**

- *A: Hardening against all types of intrusion (cyber and physical) are primary considerations. Selecting the opt-out option means these responsibilities fall on. FL. Difficult at best. The cyber aspect is incredibly multi-faceted. Smartphone passcodes as mission critical comm device. How to enter password. Bio/Tactical gloves? Unlocked or locked? Timeout? What’s the best security? Voiceprint/motion?*
- *Apps to download? Who monitors for malware? Who/how to vet this from the cyber side?*



# Tallahassee 2.27.14

## Session 1

- DoD has a lot of this figured out. Commercializing this from warfare and moving to PS.
- Deployable LTE network to Stan was delivered by GTRI
- Not the technology...it MUST support operational needs so it's ready to go when needed.

### Interactive Polling Results

All Participants		
<b>Your Affiliation?</b>		
First Responder	6	66.7%
Public Official	0	0.0%
Operations	1	11.1%
Administrator	2	22.2%
Private Sector Corporation	0	0.0%
Private Citizen	0	0.0%
Press/Media	0	0.0%
Other	0	0.0%
N		9
<b>If You're a FIRST RESPONDER...What Best Describes Your</b>		



## Tallahassee 2.27.14 Session 1

<b>Function?</b>		
<i>Fire</i>	1	11.1%
<i>Law Enforcement (gun toter)</i>	5	55.6%
<i>EMT</i>	0	0.0%
<i>Other</i>	3	33.3%
	<i>N</i> 9	
<b>How Did You Learn About Today's Workshop?</b>		
<i>Conference</i>	0	0.0%
<i>Newsletter</i>	0	0.0%
<i>Email</i>	4	50.0%
<i>Colleague or Boss</i>	3	37.5%
<i>Press Release</i>	1	12.5%
<i>Other</i>	0	0.0%
	<i>N</i> 8	
<b>I'm Knowledgeable About FirstNet</b>		
<i>Strongly Agree</i>	1	11.1%
<i>Agree</i>	1	11.1%
<i>Neutral/Not Sure</i>	4	44.4%



# Tallahassee 2.27.14

## Session 1

<i>Disagree</i>	2	22.2%
<i>Strongly Disagree</i>	1	11.1%
<i>N</i>		9

### ***I'm Knowledgeable About FloridaNet***

<i>Strongly Agree</i>	1	11.1%
<i>Agree</i>	1	11.1%
<i>Neutral/Not Sure</i>	3	33.3%
<i>Disagree</i>	3	33.3%
<i>Strongly Disagree</i>	1	11.1%
<i>N</i>		9

### ***I'm Interested in Being Involved in FloridaNet Planning Efforts***

<i>Strongly Agree</i>	2	22.2%
<i>Agree</i>	4	44.4%
<i>Neutral/Not Sure</i>	3	33.3%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
<i>N</i>		9

### ***I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety***



## Tallahassee 2.27.14 Session 1

<i>Strongly Agree</i>	4	44.4%
<i>Agree</i>	4	44.4%
<i>Neutral/Not Sure</i>	1	11.1%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
<i>N</i>		9

### ***Today's Workshop Addressed My Questions About FloridaNet***

<i>Strongly Agree</i>	2	22.2%
<i>Agree</i>	5	55.6%
<i>Neutral/Not Sure</i>	2	22.2%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
<i>N</i>		9

### ***Today's Workshop Addressed My Questions About FirstNet***

<i>Strongly Agree</i>	2	22.2%
<i>Agree</i>	4	44.4%
<i>Neutral/Not Sure</i>	3	33.3%
<i>Disagree</i>	0	0.0%



# Tallahassee 2.27.14

## Session 1

<i>Strongly Disagree</i>	0	0.0%
<i>N 9</i>		
<b><i>I Understand My Options for Participating in FloridaNet Planning Efforts</i></b>		
<i>Strongly Agree</i>	2	22.2%
<i>Agree</i>	7	77.8%
<i>Neutral/Not Sure</i>	0	0.0%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
<i>N 9</i>		
<b><i>Today's Workshop Was a Good Use of My Time</i></b>		
<i>Strongly Agree</i>	4	44.4%
<i>Agree</i>	5	55.6%
<i>Neutral/Not Sure</i>	0	0.0%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
<i>N 9</i>		
<b><i>The Workshop Was Well-Designed</i></b>		



## Tallahassee 2.27.14 Session 1

<i>Strongly Agree</i>	3	33.3%
<i>Agree</i>	5	55.6%
<i>Neutral/Not Sure</i>	1	11.1%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
	<i>N</i> 9	
<b><i>Today's Workshop Was Well Facilitated</i></b>		
<i>Strongly Agree</i>	4	44.4%
<i>Agree</i>	5	55.6%
<i>Neutral/Not Sure</i>	0	0.0%
<i>Disagree</i>	0	0.0%
<i>Strongly Disagree</i>	0	0.0%
	<i>N</i> 9	



# Tallahassee 2.27.14

## Session 2

### Participants

Name	Organization	Email
Alex Mahon	Department of Health, Leon County	Alex.mahon@flhealth.gov
Holly Kirsch	Department of Health, Leon County	Holly.kirsch@flhealth.gov
Ron Wostel	City of Tallahassee	Ron.wostel@talgov.com
Sam Kersey	Leon County MIS	kerseys@leoncountyfl.gov
Brian Wahley	Motorola Solutions	Brian.whaley@motorolasolutions.com
Alan Wittmier	Leon County MIS	wittmiera@leoncountyfl.gov
Tim Lee	CDA, Leon	

### FloridaNet

- Presented orientation slide deck materials

### FirstNet Deck

- Presented orientation slide deck materials
- Adf
- **FloridaNet**
- FL is the ONLY state who's invited in the private sector
- 
- **The Regional Domestic Security Task Force Model** will be our regional planning and asset management. Rotating private sector chairs are part of the governance
- 
- What are the capacity issues of air cards in the region?
- What are the price points that work for stakeholders?
- We have to understand this matrix to build a business model
- 
- We plan to launch data collection in early June
- An RFI to the private sector closes tomorrow to advise at a high level on technology and the business model that should be considered (i.e. private equity)
- 
- **What's the long-term deliverable to keep this sustained?**



## Tallahassee 2.27.14

### Session 2

- *The funds to launch FirstNet will be from the sale of the spectrum*
- *Leasing of excess spectrum capacity are 2<sup>nd</sup> leg*
- *Air Cards and monthly subscriptions*
- *Application Development and Applications will be another revenue stream*
- 
- *This will look a lot like the iPhone model (with significantly better security)*
- *Subscription model*
- *FirstNet business model will need to be competitive with existing services*
- 
- ***Do we know the existing spectrum will be leased?***
- *Congress has said this must be self-sustaining. The user base is about 5.4 million. The numbers only work if unused spectrum can be monetized. Multiple uses of spectrum make this feasible.*
- 
- *No specific statement from FirstNet has been made about commercial leasing. The amount of spectrum they have vs. what 5.4 million users will need is pretty staggering.*
- 
- *What about a FirstNet outage? Having 2-way capability to address cell towers would be useful*
- 
- ***How realistic is an option for the State to take grant dollars and build their own system vs. FirstNet?***
- *It's possible...but there are many long-term requirements and sustainability that make this problematic.*
- 
- ***FirstNet Presentation***
- *There can be no profit if FL takes over the network due to law. MS/Charlotte had to take theirs down due to legal requirements*
- 
- *LTE can deliver a Skype voice capability: BUT NOT MISSION CRITICAL VOICE.*
- ***NO POINT TO POINT ON LTE BECAUSE NO STANDARDS EXIST YET***
- *Mission critical voice won't be part of this package... for a long time (i.e. 10 years)*
-



## Tallahassee 2.27.14

### Session 2

- **Is the \$4.9 million for Florida...or broken down among partners?**
- *It is going to Florida.net planning. Anything related to the work plan is funneled there. Funds are not being split out the way some other partnerships are divided.*
- 
- **Out of state travel to view other capabilities is OK under the contract**
- *Boulder CO demonstration project is one of several trips that make sense. Fall 1Q/15 is probably is a good time to add deeper insight. Series of workshops with regional partners is being planned. Cross-border travel is funded.*
- 
- 
- **LTE 101**
- *Long Term Evolution (4G). Won the worldwide standard battle*
- *P25 standard made the price go up (niche market with limited number of units with a high standard of performance*
- *LTE will have hundreds of millions of devices*
- *PS will have unique requirements for hardening and waterproofing and durability, but can leverage open standards.*
- 
- *3 parts: (Core: owned/run by FirstNet....User Device/owned by Agency...BAN/OptIn—OptOut)*
- 
- *Cell on Wheels (COW)*
- *System on Wheels (SOW)*
- 
- *10:1 ratio of LMR towers to Cell Towers AND Larger antennas*
- *Different ways you increase capacity on LTE. Every frequency goes to every site.*
- 
- **Big data: understand it and why the computer can make a better decision**
- *Ft. Lauderdale police model*
- *Turn the water off when the building is gone for fire fighters*
- *Information sharing between parties for better decision making is a potential use*
- *Forest fire fighting*
-



## Tallahassee 2.27.14

### Session 2

- Extensive tower structure in SE enables us to go pretty far with existing infrastructure.
- Can add a lot of capacity to existing towers
- 
- **Elected officials need to understand LTE will not replace LMR any time soon**
- They are complimentary.
- 
- A wide a range of stakeholder consultation will produce a range of options
- 
- An Opt out decision would trigger a number of hurdles
- FCC approval
- NTIA grant funding
- Apply to NTIA to lease FirstNet spectrum
- 
- Do nothing is an option
- If we do nothing FirstNet still gets built out ....without anyone's input
- Air cards without subscription might not be able to link to the data spectrum in an incident.
- 
- Key needs:
- Compelling price
- Connect to users
- Networked capabilities
- Cool apps that make life better
- 
- Today I'm paying for 1 device. Will I have to pay for 2?
- FirstNet is being built to link to roaming networks
- **No, pricing shouldn't require users to pay for duplicative services**
- 
- **Do you have a backup if Verizon goes down?**
- FirstNet wants to be viewed as a more secure Verizon. FN will have to convince subscribers their capabilities are at least as robust. There will be roaming agreements
-



## Tallahassee 2.27.14

### Session 2

- *An equal bandwidth to Verizon's has been allocated for 5 million public safety subscribers!*
- 
- *Relationships with carriers are likely to be an important piece of this dialogue. Providers can be expected to introduce Public Safety devices with multiple capabilities (i.e. cell and public safety LTE). Sheer speculation, but it makes a lot of sense. Carriers have already delivered 6-7 devices that can be connected within the same device*
- 
- *Sustainment for \$11 billion (Verizon) maintenance and upkeep.*
- 
- ***If subscription doesn't meet or exceed these numbers what is the contingency?***
- *The network is NOT sustainable from only subscription; On nonpeak hours commercial users will be able to lease excess capacity. Private sector subscriptions will have to offset the public sector costs. Has to. Makes sense for a business model.*
- 
- *\$7 bil to build out.*
- *Has to be self-sustainable*
- *Costs have to be comparable to existing plans*
- 
- *Big gap: taking spectrum (insanely valuable) and leveraging with vendors to fill gap*
- *SELLING OFF? No. LEASING? Yes.*
- 
- *Mobile data growth: we reached the same amount of data that was being transmitted over the internet in 2001 on mobile devices LAST YEAR. Growth on mobile data is projected to increase 8-fold increase over coming next decade.*
- 
- *Suppliers are already looking at how to upgrade the system for 5G.*
- *The revenue to fund future sustainability is crucial. Board members know what's necessary to make this viable. These are smart people who are trying to do the right thing for public safety. They also realize Public Safety professionals have been burned many times. They want this locked down pretty well. We realize it makes sense to realize their expertise extensively in the planning process.*



## Tallahassee 2.27.14

### Session 2

- 
- *There is little doubt about the need to lease part of the public safety spectrum to commercial users to make any business model work. Maximize use of existing infrastructure (especially from cell providers). That way the cell maintenance is already being done. Wrap that into the cost model.*
- 
- *Commercial carriers desperately need our public safety spectrum inventory.*
- 
- ***Is there a recommended specification for site structures?***
- *Not yet, but we know wind/generator, etc.*
- 
- *Cell towers aren't there at all*
- *If FL selected an opt-out option it will be expensive*
- *If FL doesn't have a 140 mph wind requirement the network won't be very good*
- 
- ***Many states don't have confidence in Feds' ability to build this and run it***
- *There are many concerns about unfunded mandates*
- *If we opt in, FirstNet builds and maintains the network.*
- 
- *If Florida builds our own: Florida owns all the responsibility for funding and operating it.*
- *Opt-out: we build ourselves. Likely the highest risk alternative for taxpayers*
- *FirstNet isn't taxpayer dollars. (other than subscriptions). If you build it you may get grants...where will those dollars come from?*
- 
- *Private equity models exist that get around Federal legislation.*
- *Interesting concept that will be explored. Let them invest and do all the deals?*
- *No taxpayer dollars would go in.*
- *What about the maintenance implications when/if the profit picture changes?*
- 
- *There WILL be a subscription model.*
- *This will be political. Legislature will be focused on this by next session. (Next Fall)*
-



## Tallahassee 2.27.14

### Session 2

- *Go for it. Design what makes sense and determine our prioritization of what we want.*
- *Let them fight it out after we've put our best shot on the table.*
- *Get private sector partner involved and review this rationally and sanely.*
- *There are plenty of dollars to do a great plan*
- *Let's win fast or lose fast and know where we want to be in 18 months*
- 
- ***Let's have a Florida model that works in other States***
- *There is zero to lose by getting organized. Worst case: we have a group of people who understands the situation with better connections than they currently have.*
- 
- ***A governance Model will be necessary***
- *How do we re-involve the necessary cast of partners to get this re-invigorated?*
- *We need to be thinking a LOT more about interoperability*
- 
- ***Subscriptions the same or different across the state?***
- *Universal access is the theme. We'll have to help/share in some form. Same fee across the State seems likely, but with different fees and levels of subsidization. Goal is to add users...not to lose them.*
- 
- *Terrified NJ/PA/CT may opt out*
- ***WY WON'T OPT OUT...THEY HAVE ZERO TO OPT OUT OF***

#### **Data Sharing**

- *Presented orientation slide deck materials*
- ***PHASE 1 WILL GATHER DATA ON***
- *Usable assets*
- *Coverage needs*
- *Number of users*
- *Pricing*



## Tallahassee 2.27.14

### Session 2

- ( )
- *FirstNet is providing 40-50 specific data elements*
- *Where is the private sector input in this chunk?*
- *Interim working group from technical committee to review and compare coverage maps and data requirements with existing FL data*
- *FloridaNet is developing a secure data collection process to gather missing data from local, county, state, and private sector partners in FL*
  
- *PORTAL 1: Survey site for local partners to review and share data*
- *PORTAL 2: designated interim Regional working team to review seaming*

#### **How to Participate**

- *Presented orientation slide deck materials*
- *Check out Idea Share*
  
- *“We anticipate you’ll need lots of hugs before this is over....”*
- *Come out with an educated group of people who understand the requirements coming out at the end*
  
- *At what point do you see private vendors presenting a plan for the Governor to opt out?*
- *FirstNet will present a plan to the Governor (NO date established for this yet)*
  
- *All vendors will be tracking the process very closely.*
- *Vendors will be offering complimentary/competing plans for opting out when that gets served up*
  
- *We will also be presenting a smart plan to the governor that outlines smart price points and technical requirements that have been audited by a neutral 3<sup>rd</sup> party. Business model and coverage will have been well thought through.*
  
- *Sheriffs and Fire and EMT will have participated. We’re comfortable we’re moving in the right direction. Who’s going to take on this fight and live?*



## Tallahassee 2.27.14

### Session 2

#### Discussion Notes

- *When will the first FirstNet site go live in Florida?*
- *2019 (Brett). Maybe 3 (Jay)*
- *5 years: Miami Dade is up in 2 months. Not a technical discussion. Politics is what will drive this process.*
- *Let's design technically, what's technically possible*
- *Jay: Legislative input. TX only meets every 2 years. Not really well considered when FirstNet set the 90 day piece. Not at all a legal model for the states. No way to respond. Feds can't impose a deadline the Governor is prohibited by law from responding to.*
- *Next legislative session: some proposals for governance and control may start to emerge. Once political factors emerge things will slow down.*
- *PS and Public Health skills are really high in this state.*
- *Our role is to help build a good model*
- *Get this complete so we're done with it before the next legislative session. Get best thinking NOW. Let's control it while we can.*
- *BTOPs (broadband technology ) 7 awards to build these around the country. MS/Charlotte NC/SFO/LA/NJ. Got money. Added local funds and local authority to put these in motion. Build these out and created business models. FirstNet legislation passed and gave spectrum to FirstNet. Portion of spectrum control got yanked by Commerce.*
- *Could not come to agreement with 3 systems. Forced them to rip out towers and send it back to DC. AL/Ar were going to connect to it. Now being sold at auction and sending money back to Feds.*



## Tallahassee 2.27.14

### Session 2

- *MS told us FirstNet did their best to make it work. Commerce was the roadblock. This is one of many roots of distrust. MS told us they were out. Why pull it down to put it back up?*
- *FirstNet board: Craig Ferrell & Bill D'Agostino are bright business people inside the gov't who know how to make things work. Separate authority could let this move rapidly. Had this been put under Homeland Security we'd have better understanding of the PS needs and capacity. Commerce doesn't understand this. NTIA group is tough.*
- *Jay: a lot of this will run through existing carriers.*



# Tallahassee 2.28.14

## Session 3

### Participants

Name	Organization	Email
Jennifer Nagy	LCSO/DEM	<a href="mailto:jagyj@leoncountyfl.gov">jagyj@leoncountyfl.gov</a>
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Bob Maideu	DOH/BPR	<a href="mailto:Robert.maiden@flhealth.gov">Robert.maiden@flhealth.gov</a>
Kevin Peters	Leon Co DEM/SO	<a href="mailto:petersk@leoncountyfl.gov">petersk@leoncountyfl.gov</a>
Tommy Baker	Gasden EMS	<a href="mailto:tbaker@gadsdencountyfl.gov">tbaker@gadsdencountyfl.gov</a>
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Scott L. Nelson	WCSU	<a href="mailto:snelson@wcsu.org">snelson@wcsu.org</a>
Vivienne Treharne	FL DOH	<a href="mailto:Vivienne.treharne@flhealth.gov">Vivienne.treharne@flhealth.gov</a>

### FloridaNet

- *Presented orientation slide deck materials*
- *Amazing how critical Board of Education is to public safety when an evacuation must be planned.*
- *Dblock? FCC spectrum contest: Auction off to commercial or reserve for public safety*
- *700 MHz Same amount of bandwidth Verizon has nationwide. A HUGE AMOUNT; A VALUABLE CHUNK THAT HAS BEEN APPORTIONED*
- *\$7bil won't get us where we need to go*
- *\$4.9 million is not Florida taxpayer dollars....comes from the proceeds of spectrum leases*
- *Mission Critical voice can't be replaced. P25 upgrades will still be required. YES your LMR system needs to continue for at least a generation or two.*
- *High reliability, high-speed data availability (surveillance webcams, floor plans for a high-rise for firefighter)*



## Tallahassee 2.28.14

### Session 3

- *Participation is NOT mandatory. All capabilities are in addition to what you do. This provides an additional option you can choose to use if it's appropriate. Connecting the core is optional. It will be there regardless. FirstNet will be a reality. If you're going to respond with peers, you'll be on the core.*
- *LTE (4G high speed data standard) is different from what most of us know.*
- *An array of applications will be developed and made available on the core network*
- *Won't matter where you are in the country....you'll be able to connect*
- *Devices will still be more expensive than a Wal-Mart android. Hardening requirements will add some cost for PS.*
- *Will it make a telephone call? (Verizon)*
- *FirstNet is a data network, not a cellular call. Yes, but not in the way you're used to with the reliability you get from a cellular network.*
- *So*
- *Why wouldn't a Verizon/AT&T create an appliance that connects to FirstNet that provides this capability? Probably don't want to bog down the network with cell. We see devices in the future that will have multiple capabilities...but they're speculative at this part*
- *3 parts of an LTE network: core/end user devices/broadband access network (BAN)*
- *FirstNet owns the core...this will be defined*
- *Will there be one core per state?*
- *There will be a subscription user fee. Part will go to pay for access to the core.*
- *Users will subscribe to access to the core (your current air card) Multicore; single core; regional core.*



## Tallahassee 2.28.14

### Session 3

- *Easy to envision a regional core with different operational architecture to handle multiple requirements. A one-size fits all approach probably doesn't make sense (speculative). Whatever choice gets made will ultimately be seamless.*
- *We envision multiple models; multiple hubs that the Feds will be operating. 417 page specification document was put out by the Feds. Apps can be designed or build to these existing standards. This is great because it enables a more open architecture developers can leverage.*
- *Engineers are saying "very doable...let us go."*

#### **FirstNet Deck**

- *Presented orientation slide deck materials*

#### **Data Sharing**

- *Presented orientation slide deck materials*

#### **How to Participate**

- *Presented orientation slide deck materials*
- **LTE 101**
- *Only way to add capacity is to add another site with LTE. Every tower carries every frequency*
- *LTE download speed drops with distance from the fringe of the tower coverage.*
- *Everything everywhere is a great goal, but we can get a LOT of coverage through thoughtful design.*
- 
- *Launching a company from scratch! Will take time to get baseline stuff correct*
- 
- *How do we ensure the right people have access?*
- *PS enabled...universal password? Profiles follow (search & rescue/EOD—bomb tech, etc.)*
- *LMR radio doesn't require the same level of authentication*
-



## Tallahassee 2.28.14

### Session 3

- *Hardening considerations. Commercial networks are designed for 98% uptime; NG for PS in a cat 3 hurricane. Earthquake and hurricane hardening requirements (time without power; flood prone; FLnet needs to determine the specs and design to get these right)*
- 
- *NY State is tightening requirements in the face of Sandy.*
- *Overall economic costs are being re-evaluated everywhere.*
- *FL has more experience with routine responses to hurricanes.*
- 
- *Cyber security has to be considered...and physical security.*
- *Multiple levels of security are being layered with cooperation from Federal level/DoD.*
- *DoD-grade security levels are being brought in. Best available standards are being used*
- 
- *CrossHairs MRAP LTE network (developed at GTRI)*
- 
- *2. FLNet will have the most say in building out the network; defining hardening specs. We have choices to make on how the middle stuff gets. Coverage/Users/Priority Utilizations/Hardening Requirements/COWS-SOWS....these are choices Florida needs to make.*
- 
- *Devices are yours....this will be local choices to make.*
- 
- *Initial cost assumptions: 5 million users*
- *Legislation says this will be a self-sustaining network. One shot to get right*
- *\$7 billion in seed money....how will this be doable?*
- *The same amount of bandwidth has been allocated to PS that Verizon has*
- *Leasing the excess capacity of the spectrum is the way to go*
- *Capabilities to apportion this very tightly and control it totally.*
- *Capacity is for Public Safety....until there is a need*
- 
- ***Because this spectrum is controlled by FirstNet***
- *Spectrum is far more valuable than the \$7bil.*



## Tallahassee 2.28.14

### Session 3

- *This is what will be leveraged to make the network.*
- *Dynamic Priority Access means PS can cut out commercial in times of a need.*
- *FirstNet can lease excess capacity during times of average use*
- *Can't address this overtly.*
- 
- *Mobile data growth. 2001 internet volume is now on mobile data*
- 
- *Region 4 FEMA FirstNet Structure: identified the need for*
- *Hurricane evacuation and regional cooperation. Help understand traffic flows and road closures*
- *Working together gives us more clout in DC*
- *Western States Governor's Assn.*
- *Region 4 has the largest population of any FEMA region*
- *Working together is crucial*
- 
- *Why can't we use LTE for mission critical voice:*
- *Hurricane wipes out cell towers. If towers go down you're out of business*
- *Working on standards...but they don't exist at this stage.*
- *Mission Critical voice can't be supported by LTE yet*
- 
- ***FL Net and First Net: What's the consulting process for linking the two groups. How will we share our best thinking?***
- *Our best bet: this will be messy, ugly and time consuming*
- 
- *BEST CASE. Let the battles take place, but let's learn this fast. Let's take our best shot*
- *Be partners*
- *Be good partners with FirstNet*
- *Involve everyone to get our best thinking*
- *Mobilize around shared vision/priorities and best strategies FL Public Safety agrees on*
- *Get our input completed quickly while we have clear sailing*
-



## Tallahassee 2.28.14

### Session 3

- *MANY uncertainties in this process. Our greatest influence is if we can hand this off to FirstNet by 1Q 2015.*
- 
- *Only time we'll have opportunity AND funding to get this completed.*
- *Waiting means there will be too many interventions.*
- *Start putting some muscle behind task forces that have atrophied somewhat*
- *Rebuild some of the organizations we haven't relied on*
- *DSOC interoperability needs some re-invigoration*
- *Have a plan. Put it forward and take our best shot.*
- *Be sure this is grass-roots and driven locally from first responders*
- *We see this as an easy win for FirstNet*
- 
- *Federal legislation is probably set up for a constitutional challenge: Governor's don't get to make this decision in many cases.*
- 
- *Legislators will expect to have a say. Some legislatures only meet bi-annually. This will be challenged...or altered.*
- 
- *FL will identify potential users for the PS network*
- 
- ***5.4 million doesn't include Board of Education (investigate this)***
- 
- *How are utilities defined?*
- *DOT is a public safety entity in a snowstorm*
- *Utilities are key in an emergency (level 3-4 normally; you'll want the ability to bump them in dynamic situations) Teachers became first responders in emergency. Should buses/administrators be part?*
- 
- *We need to think broadly about this. Bandwidth isn't the problem. Add some school guards?*
- 
- *Utilities have terrific infrastructure (towers/fiber)*
- 
- *Cost competitiveness will be essential*



## Tallahassee 2.28.14

### Session 3

- *We'll have to identify PRIORITY high-speed data requirements and what are ways we can cover this with portable responses for emergencies?*
- 
- *Air Card*
- 
- *Key is we aren't talking about radio/LMR. Merge point is a decade out.*
- *Lack of broadband network mean we might not see the use case yet. As capabilities get added users will see the potential. Hard to understand when you don't have it. Think iPhone here.*
- 
- *How many users does Verizon have?*
- *50-60 million?*
- 
- *Utility priority is still to be determined. They will be part of he response matrix. How they fit will be dynamic. Dense areas will be subsidizing universal access to some degree. Every county helps every other county. Got to maximize the subscriber base to roll this nationally.*
- 
- *We need to identify the potential users and subscribers. Whether or not they're first responders will vary. More utility discussion. May be a foreman, not everyone on the crew. Utilities are for sure first responders in rural counties. Local control is what will drive these decisions*
- 
- *With LTE we can set priorities at a very fine line. 1st person on the scene might want to send video and LOTS of bandwidth. This is likely to change as more responders arrive. We need to think through MANY scenarios. LTE offers lots of potential for tailoring these.*
- *Business Model Discussion:*
- *Offer services at a compelling and competitive cost to attract a large base of subscribers and make FirstNet self-sustaining.*
- *Use of FirstNet services and apps will be voluntary*
- *No costs for any FN services, apps and devices have not yet been set*
- 
- *Chicken/egg:*



## Tallahassee 2.28.14

### Session 3

- *APPCOMM is beginning to start this process*
- *Need apps for subscribers; need subscribers to drive demand*
- *FirstNet did an RFI app (resulted in 47; repurposing a variety of DoD apps)*
- *Not a worry that there won't be very cool stuff*
- 
- *Big Data will help enable a better decision making system*
- *Computers will be smarter than us in many cases and change our responses*
- *10 years from now we will rely on many systems the DoD is currently using*
- 
- **State Decision Process**
- *FirstNet plan that gets presented to the Governor may or may not be the FloridaNet plan*
- *Working cooperatively gives us the best shot at a good plan*
- *Governor/Legislator has a choice to opt-in; opt-out*
- *Opt-in: FirstNet will build-operate-sustain 100%*
- *Yes..but (additional private investment options)*
- *Yes..and*
- *They NEED us; as a "have" state....believe they'll work with us*
- *Believe there are strong reasons for negotiation*
- *No response....FirstNet builds it anyway*
- 
- *Opt-out: Florida builds our own*
- *Notify FirstNet, NTIA and FCC of intention to build independent*
- *Submit alternative plan to FCC; gain FCC approval*
- *Complete and RFP*
- *Apply for grand funding from NTIA*
- *Apply to NTIA to lease FirstNet Spectrum*
- *Purpose to assure the western states had an option for them to do their own thing. Hurdles are high to going it alone. Intentionally*
- 
- *The Mississippi Story: Broadband Business Opportunity Program*
- *7 entities were awarded grants to develop. FirstNet didn't exist prior*
- *Granted temporary authority to build with temporary waivers. Pause until FirstNet Board was created*



## Tallahassee 2.28.14

### Session 3

- *MS-AL-AK/Adams CO, TX/Charlotte/SFO/LA*
- *Congress passes FirstNet legislation: 2012*
- *Need assurances FirstNet won't affect existing sustainability of the investment*
- *FirstNet tried. NTIA nixed. Not allowed to make those promises.*
- *Could not come to a mutual agreement*
- *Rural broadband initiative?*
- *Massive frustration to many involved.*
- *Everyone is not smarter because of this experience.*
- *MS: don't blame FirstNet. You'll hear this background. Understand it*
- 
- *State consultation process between FloridaNet and FirstNet is launching*
- 
- *Get data collection requirements from FirstNet*
- *Get FirstNet preliminary coverage maps and business models*
- *Continue coordinating with SE states (8 FEMA Region 4 states) on border coverage, priorities, application development and other regional issues*
- 
- *7 regional domestic security task force meetings*
- *How do we seam this up? Establish first round of preliminaries*
  
- *Stitch this together and present Florida's coverage model*
- *Inside this we have to a rational business case (can't use the term business model)*
- *Pricing/infrastructure design/*
- *MOU/MOAs are OK; Can't use the term business model*
- *Miami-Dade...present options (how does a have county see this?)*
- *Franklin...present in a rural/have-not*
- *Assemble 7-10 White papers around the biz model/pricing model/preferred alternatives*
- *What models seem to have the greatest potential for cooperation?*
  
- *Present a draft for each region (edit/amend...not an inventory or a count) This is easy for users to validate*



# Tallahassee 2.28.14

## Session 3

### **DATA SHARING**

A Private sector data portal will be modeled on national council of

2 CEGIS level public sector data portals

- One for local partners to review and share data with Florida net
- One for a designated interim working group to review and compare Florida Net data with FirstNet data. (Smaller, more controlled team...regional IO folks + FWC + Highway Patrol and statewide perspective)

### ***How to participate: FloridaNet.gov***

Summer workshops

- 7 Domestic Security Task Force Regions will review the survey elements FloridaNet will be collecting for FirstNet
- Provide an update on FloridaNet planning process

Fall workshops

- Provide an update on FloridaNet planning progress
- Provide for additional local input
- Share results of previous broadband coverage efforts; get additional local input
- Provide available thinking design elements for FloridaNet and seek local input
- *Consider an alternative for private sector*

### **Discussion Notes**

- **Trying to gather regional assets, do you see trying to leverage existing infrastructure?**
- *YES We will be piggybacking maximum use of existing AT&T/Verizon towers AND everything that's out there. AT&T Verizon/Spring and Southern CO tower agreements and a few tower companies....then look to fill in gaps with PS towers. If this were leveraged this way we have a relatively easy process for building these links*
- *High probability of success if we move quickly. We're a "have"*



## Tallahassee 2.28.14

### Session 3

- Verizon towers: what would they gain from allowing access to their towers?
- *SPECTRUM: users are desperate for more of it: allowing private to use portions of the cellular core...certain frequencies for commercial calls. LTE Channelization enables a great deal of flexibility here. FirstNet leaders came from this world.*
- *Once we set hardening standards for hardening we'll be able to eliminate some towers*
- *Some investment will be needed here*
- *Filling gaps will be needed.*
- *Relative to western states we have a pretty dense coverage of infrastructure*



# Tallahassee 2.28.14

## Session 4

Name	Organization	Email
Tim Barrentine	RCC Consulting	<a href="mailto:tbarrentine@rcc.com">tbarrentine@rcc.com</a>
Albert G. Wasa de Czege	FWC	Albert.wassdecaeze@myfwc.com

### **FloridaNet**

- *Presented orientation slide deck materials*
- *The grant went through Highway Safety because they had the funds to do the match*
- *FL is the only state to include the private sector in the planning process*
- *Both Tribal nations are actively involved in the planning effort*

### **FirstNet Deck**

- *Presented orientation slide deck materials*

### **Data Sharing**

- *Presented orientation slide deck materials*

### **How to Participate**

- *Presented orientation slide deck materials*

### **Discussion Notes**

- Firstnet has the equivalent of Verizon's bandwidth spread across 5 million users
- *I can already get this stuff with an aircard.*
- What about when everybody hits their cellphones during a storm?
- Oh
- FirstNet enables the network to flip a switch on a dedicated PS only network...no competition with others on a commercial network
- How will you talk to FEMA or get data back at the office
- *FirstNet will be just as susceptible to a storm as regular wireless*
- No it won't, 3-days of diesel in generators; 140 tower specs and others are built into the hardened specifications the network will be built to



## Tallahassee 2.28.14

### Session 4

- *So we should partner with structures to build stronger structures*
- Exactly!
  
- Why should they let us do that?
- Because we have huge spectrum they can use until a big event occurs and we kick them off.
- They don't lose their phone service....they just get switched to a network they would have been on anyway.
  
- Will there be enough apps?
- Google/DoD/IBM others are already making apps
  
- LMT/LMR capabilities
- Because mission critical voice won't be offered on an aircard, it seems likely we'll be seeing other capabilities built into the appliance. No need for a cell phone and data coverage devices. Integrational appliances would enable officers with more than one option for connecting to home. P25 with cellular. Expect a lot of appliance competition (radio/cellphone/data pad) Cool stuff is coming in the future: apps that enable us to use big data. Devices that have multiple capabilities. Open sourcing means there will be a lot of price/feature competition.
  
- What about the potential for counties who might want BETTER coverage?
- No reason this shouldn't be possible to approach as an AND. We believe there will be ample opportunity for discussion about enhancements if local groups are interested.
  
- LMR vs portable coverage is very different.
- What buildings do you want to talk to?
- Different data densities are shown on the map.
- Antenna on the car...or internal within the device....performance differs.
- Commercial is all portable....this is how we *think* it will be defined

TAMMAREE 2.28.14 AM

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TAMMAREE 2.28.14 PM

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**Exhibit 44**



# Pensacola 3.6.2014

## Session 1

### Participants

Name	Organization	Title	Phone	Email
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### **FloridaNet**

*Presented orientation slide deck materials*

- *The grant went through Highway Safety because they had the funds to do the match*
- *FL is the only state to include the private sector in the planning process*
- *Both Tribal nations are actively involved in the planning effort*



# Pensacola 3.6.2014

## Session 1

- *Multi-agency steering committee: grass roots effort*
- *What will this look like for the first round of responders? An air card for first responders that works for all carriers. (No limitations on ATT/Sprint/Verizon across the state)*
- *We aren't permitted to build a business model..but we expect to do serious homework with the private sector that will frame realistic possibilities on the front end.*
- *Questions? None.*
- *Regional Domestic Security Task Force*
- *Strong recommendation: get involved early in the planning discussions. We will move fast and it will be difficult to merge into a an ongoing process*

### **FirstNet Deck**

- *Presented orientation slide deck materials*
- *FirstNet will NOT replace Florida's Land Mobile Radio System (e.g. SLERS)*
  - *VOIP calls may work...but NOT mission critical*
  - *We expect this will parallel LMR systems for at least 10 years*
- *FirstNet will enable locally priority access among public safety users*
- *PSAC (The Public Safety Advisory Council) is providing initial guidance on prioritization of how priority utilization will work. Expect a draft of this within a week. It will frame the kinds of emergencies FL experiences and how priorities might be established.*
- *LTE (long-term) should enable us to drive costs down from the current model of limited use high end radios.*
- *Communication with public officials will be crucial. Think ipad not iphone. NO voice over savings will be coming from this!*
- *Presented possible FirstNet architecture*
- *LTE is different than LMR:*
  - *LMR has less coverage per tower than LMR (need more antennas for same coverage)*



# Pensacola 3.6.2014

## Session 1

- *It needs bigger antennas on towers than LMR*
- *Increasing capacity (LMR adds frequencies; LTE adds sites)*
- *Performance vs. Distance (LMR works or it doesn't; LTE data rates drop with distance from the tower)*
- *Applications will explode*
- *Profiles will reside on the network (not the device)*
- *Profiles can include priorities and skills*
- *Hardening considerations will be different in FL than other states. PS responders need to be involved in the data collection and design phases to ID specific local needs.*
- *Cybersecurity needs will be extreme. (protect public safety data with significant assistance from Federal level; DoD level security). Multi-layered challenge to secure not only the data, but the physical site security.*
- *We don't have a commercial parallel to FirstNet. How will we pay for this?*
- *We have the same Bandwidth for public safety allocated to Verizon. There are huge amounts of spectrum available for commercial leasing*
- *All the data on the internet in 2001 is equal to what was transmitted on mobile apps in 2012. This is projected to grow 8x in the next 10 years.*
- *This means there are huge opportunities for commercial leasing*
- *The ability to control channels is very tight*
- *Our ability to turn off commercial for serious needs will be airtight when commercial service is diverted back to commercial towers. They will experience overload. Public Safety will stay on the air*
- *GA state troopers couldn't communicate during ice storm because of network overload during the ice storm. This is why it's crucial for PS to own and control the network.*
- *These bullet points aren't in any FirstNet presentation, but they are obvious.*
- *Business plan slide*
  - *State by state plans*



# Pensacola 3.6.2014

## Session 1

- *ID assets/coverage needs/number of users/current partners/features*
- *FirstNet Network Design*
  - *Public safety first/mange the core/Integrate State RANs/Mogility-security-redundancy*
  - *Priority/preemption/local control*
- *Partner Strategy*
  - *Value contribution*
  - *Innovation*
  - *PS design*
  - *State relationships*
  - *Diversified portfolio of partnerships*
- *Business Plan Clarification*
  - *Reality check*
- *FL has many of these pieces. It will be a LOT easier deployment than western states that have limited infrastructure. EZ win.*
- *Urban; 5% of land mass*
- *Rural: 68% of land mass*
- *Wilderness: 27% of land mass*
- *Structure includes 10 regional teams paralleling the 10 FEMA regions. Region 4 has had 2 meetings so far. This is how we'll decide seaming issues with adjoining states and regional applications (hurricane evacuation apps)*
- *Device Considerations: many ways to innovation*
  - *GTRI CrossHairs in MRAP: a portable hotspot from Afghanistan*
  - *Many new appliances: deploy things that already exist*
  - *Technically we could roll out sites in FL within 18 months. Politically...we expect some of these will likely take longer.*
  - *Get this done way before the Legislature gets interested/involved!!*



# Pensacola 3.6.2014

## Session 1

- 
- *THIS WILL NOT REPLACE MISSION CRITICAL VOICE*
- *Overview of consultation process*
  - *Iterative process...not a single event*
  - *FirstNet will communicate the consultation process, roles and responsibilities*
  - *Governance/Outreach/Education/something else*
  - *PSACS: local control/prioritization/training/security*
  - *Final State plan developed by FirstNet....goes to Governor*
  - *FirstNet provides GIS map with coverage for InBuilding, Handheld, 2 others*
  - *ID the potential user base (number of agencies by discipline. Number of personnel by discipline, detailed agency user database)*
- *Application possibilities to leverage big data*
  - *Tracking of hotspots for targeted enforcement*
  - *Prioritization for incident responders (IBM Watson)*
  - *Can't become SkyNet on steroids*
  - *Applications local users decide to subscriber to (or not)*
  - *FirstNet is a communications network (big pipe...like the internet). You will have total option for decision making. Decisions will be made on a case by case basis.*
  - *Big changes are ahead with the emergence of big data. How do we implement our activities differently. This doesn't mean giving up control.*
- *State Decision Process*
  - *Probably not the way things will work*
  - *Consultation/Regional workshops between FirstNet and FloridaNet*
  - *FirstNet (in conjunction with FloridaNet) presents plan to Governor*
  - *Go/No-go on accepting the plan*



# Pensacola 3.6.2014

## Session 1

- *Build your own option? Here are some of the hurdles*
  - *Notify FCC/NTIA we plan to build our own*
  - *Submit alternate plan to FCC; gain approval*
  - *Apply for grant funding to build FloridaNet*
  - *Apply to NTIA to lease FirstNet spectrum*
  - *We still need to maintain the network*
- *Yes...but*
- *Yes..and seem like the best way to go*
- *We are 3<sup>rd</sup> largest state with significant capacity*
- *Opt in...but/and seem like best way to go*
- *May need different equity models to cover off-shore and wilderness capabilities*
- *Areas we have densest populations (northeast) have to subsidize areas with the least (west) will have to be balanced to have a subscriber base adequate to provide Universal coverage.*
- *Southeast is in a prime position to get the network we want and say yes to the rest of the network.*
- *Voice will make up relatively little of this moving forward. It drops off significantly in DoD apps. We think it will here too.*
- *P3 law in FL enables public entities to partner with investors willing to put up front investment into projects.*

### **DATA SHARING**

- *Presented orientation slide deck materials*
- *Maintaining security is paramount in the gathering data process*
- *GGIS level Tool includes drop down menus with survey and designated users who can give us a first round of planning inputs*
- *Overlay with private sector data that's been shared*
- *2 public sector data portals going up*



# Pensacola 3.6.2014

## Session 1

- *local partners to review and share data with Florida Net (data collection via GIS survey)*
- *Iterm working group to review and compare FloridaNet data with FirstNet data (inroom only; much more secure)*

### **How to Participate**

- *Presented orientation slide deck materials*
- *Discussion & Questions*

### **Discussion & Questions**

- *Separate device needed?*
- *We don't know...aircard is the way to think.*
- *It may be an app on top of your aircard...your access to the network and data.*
- *Get rid of current aircard for one with improved performance and priority. Your device and secure apps continue to be available that's connected and secure wherever you go.*
- *You'll be able to access a WAN that covers the nation. One company with a common backbone. Same security procedures from CGIS piggybacked on existing networks.*
- *Speed of the new network will move a LOT faster*
- *Priority rural coverage is part of this. Universal access will certainly benefit the panhandle. Being able to access data 5-10 miles north of I-10 would be a step to eliminate the "no zone."*
- *What you have now, better and faster is the way to look at this.*
- *We'll define minimum download speeds by area in the design phase.*
- *Access may not be through the card...may be a device in the car*
- *Offshore satellite solutions are knowns. Costs have dropped.*
- *We are entering a new area of connectivity.*
- *Applications/speeds/access to new devices at affordable costs will be changing rapidly. Competition will be intense/beneficial.*
- *How to we manage the app store may be our biggest challenge.*
- *The future is applications. Situational awareness will improve*
- *Intelligence BOLOs will drive a lot of these*



## Pensacola 3.6.2014

### Session 1

- *Both major public safety vendors have put out products from Harris/Motorola. Fingerprint reader. 6 radios. In-vehicle modems with hotspots. FirstNet access is already built in*
- *Boulder CO lab is testing products now.*
- *WE WON'T BE WAITING FOR THE TECHNOLOGY. ITS ALREADY BEING DEVELOPED*
- *What do you need?*
  - *Push this to a higher level at all aspects. Raise awareness so the buy-in can be there when the time comes*
  - *FWC is plugged in (Cindy/Gregg)*
  - *We need the right POCs in the room when we schedule the regional workshop.*



# Pensacola 3.6.2014

## Session 2

### Participants

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Scott Markel		Santa Rosa County EM		
Brad Baker		Santa Rosa County EM		
Rudy Lopez		Escambia County Health Dept.		
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Curtis Knapp	Walton County Sheriff's Office			



# Pensacola 3.6.2014

## Session 2

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Betsy Hasty		Pensacola State College Police		

### Overview

- *What FloridaNet is*
- *What FirstNet is*
- *Continuation of the D-Block*
- *Discussions on the implications for public safety*
- *On the leading edge of a new*

### FloridaNet

- *Presented orientation slide deck materials*
- *Not taxpayer funded. \$7billion from commercial lease of 700MHz spectrum*
- *FirstNet is under Dept. of Commerce NTIA (National telecommunications and Information Administration)*
- *Over 120 people have participated in process to date*
- *This is the planning phase; 2<sup>nd</sup> planning phase will fund data collection*
- *\$5m to plan ONLY. Can't purchase any equipment or services*



## Pensacola 3.6.2014

### Session 2

- *RDSTF: Regional Domestic Security Task Force will be our structure for the planning.*
- *Florida has mapped out extensively a plan of action. We're ahead of virtually every other state in mapping a first cut of regional coverage/capabilities*
- *FirstNet met with FloridaNet on 1/8*
- *State consultation process is being planned to collect data*
- *This process is different because it is independent of any single state agency control. It's a bottom-up grass roots approach*
- *RFI for implementing the most efficient/effective way to utilize and integrate infrastructure, equipment and other architecture associated with the PS network to satisfy current and future wireless communications and data and data network service needs of public safety in Florida just completed. Tremendous, positive response has come in that provides national perspective. This is unique and very different*
- *SCIP revised from the IO committee in JAX. Wasn't anything in it about broadband and necessary*

#### **FirstNet Deck**

- *Presented orientation slide deck*
- *Dblock knowledge? (better than half)*
- *Band class 14 supersedes Dblock. Won't hear Dblock references anymore*
- *FirstNet Executive Board includes 6 former broadband executives, 2 local gov't represents, 4 public safety representatives*
- *Florida is the statewide group implementing state efforts*
- *FirstNet is for data, video, images and texts as well as non mission critical voice*
- *Elected officials may have a tendency to misunderstand this*
- *LTE = worldwide broadband standard. Contains 3 parts*
  - *Core: owned and operated by FirstNet*
    - *EPC: Evolved packet core network*
    - *SDP: Service Delivery Platform*
  - *Devices: responsibility of agencies and users*
    - *Terrestrial Mobile Systems*
    - *Mobile Satellite Systems*
    - *Deployable Systems (Cell on wheels/Systems on wheels)*
  - *Broadband Access Network: opt in or opt out*



## Pensacola 3.6.2014

### Session 2

- *In 10 years we will live in an applications world. Many more options*
- *Q: do you plan on integrating existing county-owned towers?*
- *YES: we want to leverage public safety towers in the state AND commercial towers. Some will fit into the BAN; others are.*
- *Q: What about upgrades for existing towers?*
- *A: Towers in place and capacity will be analyzed in the planning step...with a cost/benefit performed to determine best fit for upgrading/replacement?*
  
- *Q: wouldn't it be better than upgrading existing capabilities?*
- *A: hold for the rest of the deck. We are thinking differently on this. You're right on beam with your thinking*
- *LTE 101 Presentation*
- *It's not just the pipe: it's about what the applications will enable that is what's exciting about this thinking*
- *iPad,...not iPhone*
- *Application store....an open standard and open architecture on the network*
- *The applications will have a major impact on what you do and how you do it*
- *Situational awareness tools. Wraparound. Team orientation via satellite. Team members will be able to share different types of apps.*
- *What are the broadband tools/appliances we'll be able to access?*
- *NONE OF THIS WILL BE FORCED UPON YOU*
- *Decisions will be made at the agency level.*
- *Dod Satellite access and NSA intel will be part of this package. This will change the cost structure of satellite access for remote/rural areas*
- *FirstNet has access to DoD cybersecurity: protocols are being de-classified and made available*

#### **Break for questions on BAN**

- *We have approximately the same spectrum as Verizon dedicated to 5 million public safety users.*
  - *Excess capacity can be leased to the commercial spectrum*
  - *Huge amounts of bandwidth that private sector needs will be available*
  
- *The capabilities are here now: Question is how do we link in an affordable/logical manner*



## Pensacola 3.6.2014

### Session 2

- *How will the be maintained and sustained? Assume it's local responsibility*
- *No. Only the applications and devices (air card/portable hotspots). You also have an option of whether to connect or not.*
- *How many agencies issued cellular device? Almost everyone.*
- *You're paying for it now. How many carriers does it work on now? One, mostly.*
- *We have 3 separate carriers in Santa Rosa*
- *The \$49/month we're paying for cell coverage will likely go up.*
- *What we've traded will be the ability to go to 3 carriers.*
- *Commercial users will help put up sites and maintain the network.*
- *Appliances will have Skype-type voice capability*
- *May have a device with cell capabilities and voice...one durable hot spot with ticketing software in the same device. Smart apps that help first responders*
- *Watson: the entire internet/library/Google in one place. Doing it via voice recognition*
- *Deep Blue: computer beats humans*
- *Ft. Lauderdale/IBM is piloting this approach to do better patrols.*
- *Implications for big data and how we police are huge*
- *Need for voice on response drops considerably when big data is introduced*
- *"Where are you?" questions drop dramatically*
- *Q: instead of 3 air cards we'd get better/faster coverage and speed*
- *Q wouldn't that require private entities to work together?*
- *Not necessarily? No agreement is required to operate to open standards*
- *They want it. They need it. They'll be happy to help build capacity to have access to the commercial spectrum that's crucial for their operation.*

#### **Business plan discussion**

- *ID usable assets/data coverage needs (where do we need the highest speed data)/how many subscribers/current partners and features: WE COLLECT THIS DATA IN SUMMER*
- *Q: How will the panhandle get access?*
- *A: Every meeting has heard this question. The language in the legislation is specific: RURAL, not urban. The preliminary coverage map for the state has already been developed. Pretty accurate. It's not urban...it's rural.*



## Pensacola 3.6.2014

### Session 2

- *We need the next step to edit the survey of information you've already provided. Should enable the right level of people in your organization to participate quickly and painlessly.*
- *If you play, you get the opportunity to participate. If you don't, somebody else will be designing this. This is why we need Fire, Health; everyone to be involved to log response/patrol/offshore needs.*
- *We've got to be sure all responders are included in the planning process*
- *Let's get a smart model out for FL FIRST. Let's not wait for Kansas.*
- *NOW is the time to influence the model.*
- *DHS team was with us the last few days. After seeing this, they believe Florida will be the Standard for how the rest of the country deploys FirstNet. We're the only state doing this bottom-up. Everyone else is doing this top down.*
- *We're probably building towers along I-10 as part of this build out. Unlikely this will be happening in dense, urban areas.*
- *DoD devices are IN Place: will be rolling out rapidly*
- *Getting out in front has many advantages. This is our best option.*
- *Engage: get input from a broad range. Win or lose fast*
- *PSAC and others will prioritize local access and overall approach to local control/prioritization/training/security.*
- *Looking for initial recommendations within a week or so*
- *State consultation with POCs/SLIGP will merge with FirstNet*
- *Federal Input ECPC*
- *Industry Input: RFIs/RFPs/Partnering*
- *Where do we need what coverages....and why? We will define this at a local level*
- *SLIG-P Phase II coming in June*
- *5.4 million subscribers can't fund a national network. Commercial leasing of this spectrum can.*
- *There WILL be a FirstNet. You can subscribe/connect or not*
  
- *Q: Have they reviewed a 911-fee that could be levied to offset? CJ-net?*
- *A: We have many levels of resource capability. Many levels of sharing are needed. What is the fee structure? We don't know until we know what the costs and services will need to be. Right now the money says no more money from the Feds...make it work. So how do you get funding for your devices? Is there some fee Florida might levy? Certainly possible.*



## Pensacola 3.6.2014

### Session 2

- *Let's look out 5 years. Certainly there will be a need for have-nots to gain access to appliances. Seems reasonable to expect there will be grants that enable everyone to participate.*
- 
- *Q: When FirstNet goes up. Do the commercial carriers move on and take on their existing towers.*
- *A: Systems will run in parallel. This is like building a superhighway. We'll start with one fire truck on it. We will be able to drop segments of the spectrum for PS when needed for whatever PS needs it. SWPS similarities.*
- *Concern is that commercial carriers will bring their infrastructure down and we'll lose revenue*
- 
- *A: Far less expensive to use combiners on the ground*
- *Got it...but as technology progresses some have concerns....*
- *Upgrade paths are being planned to 5G. This is coming. Future will be packing more into existing bandwidth*
- 
- *Utilizing spectrum on off-hours?*
- *We can monitor % of bandwidth PS is being used at any single time. This can be done dynamically.*
- 
- *Q: existing networks...can we piggyback on them?*
- *A: yes..this is the concept.*
- 
- *Q: Not everywhere is spectrum tight. How do we know if they need it here?*
- *A: We are speculating right. Zero set in stone. But carriers need to have spectrum everywhere. Our opinion is however it works, what makes this financially viable is the value of the spectrum. This is the big idea. There are many models being developed right now*
- *The plan is not to specifics yet. Preparing ourselves for how this*
- 
- *Q: if there is 5G in 2 years will it still be in band class 14.*
- *A: That's what LTE is. Speculation is even if it's 10G it will remain on band class 14 and we are operating with existing spectrums. Breakthrough results we can't see are always a possibility...but operating with knowns seem like the way to go.*
- *Opt in; opt out models discussed*



## Pensacola 3.6.2014

### Session 2

- 
- *Q: so we CAN secede from the union?*
- *A: yes...but FirstNet will be build anyway. If you want to attach to it*
- *So they'll put it on towers whether you like it or now? On our towers?*
- *A: No...on Sprint/Verizon's towers*
- *Q: when they come it will your force me to re-band? Technical/Technical requirements. Must maintain LMR system*
- *A: no.*  
Broadband spectrum
- *Intermod interference implications.*
- *No cost to you is something we've heard before. Color us skeptical*
  
- *Our option: what do we want to do. This is where we need the Chief's input on yes, but....yes and in June. Nextel stuff is still out there 10 years..still not delivered.*
  
- *Let's decide what Florida wants to do*
  
- *We want ALL of these concerns on governance and control. Concerns about asset utilization, rebanding, local control and known issues up-front. Will Florida have a response or a counter when this happens?*
  
- *There will be thousands of MOUs coming out of this. If you have assets FirstNet can build on very specific user expectations need to be set forth. Especially intermod. Some of us won't have the final say on whether Florida opts in or out. Those MOUs are where we have a chance to influence events.*
  
- *Are the advantages greater than the potential challenges we'll have to face locally? This needs to be determined in the data collection phase.*
  
- *Panhandle is always the last to build out. We've seen this before!!*
  
- *We're telling you what FirstNet told us. We can wait and see. Some states are doing this. We can hit this hard and offer recommendations and influence the process as much as possible what's going to happen to us.*
- *IO committee are being tasked with getting recommendations from the region.*



## Pensacola 3.6.2014 Session 2

### **DATA SHARING**

- *Presented orientation slide deck*
- *Private equity models are in place for opting out.*
- *ISAAC homeland security portals are in place for information sharing with the private sector*

### **How to Participate**

- *Presented orientation slide deck*
- *IdeaShare will be used to collect team input*



# Pensacola 3.7.2014

## Session 3 & 4

### Participants

Name	Title	Organization	Phone	Email
George Hawkins				
Troy Dunphy		SMRT – Region 1		
Martha Hicks	Vulnerable Population Coordinator, Region 1; Special Needs Shelter Consultant, Region 1	Escambia County Public Health Preparedness	850-595-6683 x. 103	Martha.hicks@flhealth.gov
Joe McKinney	Special Projects	GEMA		

### FloridaNet

- Presented orientation slide deck materials
- Discussed special needs of shelter evacuations and planning
- Discussed the needs for 20% matching funds from DHSMV

### FirstNet Deck

- Presented orientation slide deck materials



## Pensacola 3.7.2014

### Session 3 & 4

#### Data Sharing

- *Presented orientation slide deck materials*

#### How to Participate

- *Presented orientation slide deck materials*
- *Discussed the need to link public health better and explored the FloridaNet.gov website*
- *Discussed loss of communications and lessons learned during hurricanes Aaron, Ivan and Katrina.*
- *Domestic Security Task Force: via InterOperability Committee*
- *We will be having discussions around public health response. This is about the data network necessary to respond to events....not necessarily the events.*
- *One responder network....for responders only that will carry the credentials and preferences of each user along with it.*
- *Providing the data tools and making certain they are available when they are needed.*
- *Not your radio or cell phone....it's the data you'll need. Think iPad...not iPhone.*
  
- *Sheltering situation need to be part of our data inventory and survey*
- *Special needs: Alzheimer's/chronic-acute/frail & elderly/special needs children/wheelchairs/*
- *Special needs shelter populations and vulnerable populations (19 categories of vulnerable populations) (including the homeless)*
- *Quickly identifying and qualifying how to triage who qualifies for special needs shelters from general evacuation shelters is big challenge that can create a lot of trouble if it's not executed well.*
- *Some specialty applications may be necessary*



## Pensacola 3.7.2014

### Session 3 & 4

- *Screening for who qualifies for special needs shelters*
- *An application Emergency telemedicine for shelters?*
- *Learnings about moving patients (Sandy experience)*



# AUDIE ROWEN WALTON COUNTY SHERIFF

## MEETING SIGN-IN SHEET

<b>Project:</b> FloridaNet Listening Sessions	<b>Meeting Date:</b> March 6 <sup>th</sup> , 2014 - Afternoon
<b>Facilitator:</b>	<b>Place/Room:</b> Pensacola

Name	Title	Company	Phone	Fax	E-Mail
Christine Cooper	<i>CC</i>	Okaloosa County Public Safety			
Daniel Dunlap	<i>DD</i>	Okaloosa Public Safety			
David Musselwhite		Escambia BCC			
Mike Moring	<i>MM</i>	Escambia County Public Safety	850 471.6315		<i>mmoring@escambia.com</i>
Andrew Hamilton	<i>AH</i>	Escambia County Public Safety			<i>mschmitt@cityofpensacola.com</i>
Matt Schmitt	<i>MS</i>	Pensacola Fire Department	850 436-5206		
Marc Anderson		South Walton Fire District			
David Chmiel		Florida Department of Health			
George Hawkins		Santa Rosa County Sheriff's Office			
Scott Markel	<i>SM</i>	Santa Rosa County EM			
Brad Baker	<i>B</i>	Santa Rosa County EM			
Rudy Lopez	<i>R</i>	Escambia County Health Department			
Juanita Wright		Okaloosa County Airports			
Joe McKinney		GEMA			
Betsy Hasty	<i>B</i>	Pensacola State College Police			
Hayden Jester	<i>HJ</i>	Pensacola Fire			<i>Hjester@cityofpensacola.com</i>
Jarrod Gruber	<i>JG</i>	Pensacola Fire			<i>jgruber@cityofpensacola.com</i>
Michael Weaver		Escambia County Public Safety			
Troy Dunphy		SMRT-Region 1			

Belinda Farmer  
 Page 1 of 4  
 Tina Barker  
 Curtis Knapp

Walton County Sheriff's Office  
 Walton Co Sheriff's Office 850-811  
 WALTON CO. SHERIFF'S OFFICE

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# MEETING SIGN-IN SHEET

**Project:** FloridaNet Listening Sessions

**Meeting Date:** March 6<sup>th</sup>, 2014 – Morning

**Facilitator:**

**Place/Room:** Pensacola

Name	Title	Company	Phone	Fax	E-Mail
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Matt Schmitt		Pensacola Fire Department			
Chuck Good	Safety + Training Manager	Pensacola Energy	850-474 5305	850-474- 5331	cgood@cityofpensacola.com
Marc Anderson		South Walton Fire District			
George Hawkins	Comms Spc Projects Coord	Santa Rosa County Sheriff's Office	850 480 7949		ghawkins@SRSO.net
Henry Shirah		Pensacola State College PD			
Joe McKinney		GEMA			
Betsy Hasty		Pensacola State College Police			
Hayden Jester		Pensacola Fire			
Jarrod Gruber		Pensacola Fire			
Michael Weaver		Escambia County Public Safety	850 471-6411		mweaver@myescambia.com
Troy Dunphy	Com-L	SMRT-Region 1	866 322 6499		
Jeffrey Duncan		FDLE			
Kay Stripling		Affinity Public Services			
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Brian Lambert	LT.	FWC	232-0775	595-8981	Brian.lambert@myfwc.com
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RICHARD BLAKE

DeFuniak Springs Police

JACK ONKKA

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Bonnie Tierney Okaloosa County IS btierney@co.okaloosa.fl.us

Tim Butler

Team One Communications

TimButler@TeamOneCommunications.com

SHAWN FLETCHER

ESCAMBIA BCC

spfletch@myescambia.com 850 595 1678

THAT MAN

3/8 PM

**Exhibit 45**



# Deerfield Beach 3.10.2014 Session 1

## Participants

Name	Title	Organization	Phone	Email
Michael Twigger	Division Chief	Delray Beach Fire Dept.	561-243-7414	<a href="mailto:twigger@mydelraybeach.com">twigger@mydelraybeach.com</a>
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Victor Williams	Asst. Chief	DBFR	561-243-7487	<a href="mailto:willaimsve@mydelraybeach.com">willaimsve@mydelraybeach.com</a>
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Van Schoer	Specialist	Tamarac Fire	954-597-3805	<a href="mailto:Van.schoer@tamrac.org">Van.schoer@tamrac.org</a>
Ashley Lee	Emergency Management Manager	Florida Hospital Association	561-972-6401	<a href="mailto:ashleyL@fha.org">ashleyL@fha.org</a>

## FloridaNet

Summary Discussion Notes from Discussion in  
Deerfield Beach, FL Summary: March 10, 2014 Session 1  
Not Verbatim Comments



# Deerfield Beach

## 3.10.2014

### Session 1

- *The orientation slide deck materials were presented*
- *Phase I: get organized. This will be complete 4/1*
- *Phase II: Collect input via Regional Task Forces to design the network we think will be serve public safety in FL. We'll present a coverage map (as we know it for aircard). Expect it will be about 85%*
- *Then we'll prioritize coverage gaps where we know service isn't airtight*
- *Private sector response has been very supportive to letting us know both existing and planned coverage areas. This is super helpful in getting national attention in FL both for them and for the process.*

#### **FirstNet**

- *The orientation slide deck materials were presented*
- *Public safety grade; managed by public safety. FloridaNet is building the state version of the national network.*
- *Verizon has 65 million users. Public safety has about 5 million. There is a huge amount of spectrum that has been dedicated to public safety.*
- *SLERS will still need to be upgraded. LTE won't replace critical voice any time soon.*
- *In a storm event the public understands cell outages. We can't afford this with a public safety network. That's why the system needs to be hardened.*
- *Situation tools (GPS, etc.) will reduce the need for "where are you?" voice communication. We expect to see up to a 70% reduction in voice traffic in the next generation of tools that have been available to Department of Defense.*
- *LTE: The advantage is millions of applications are being designed around the world. Very different to the P25 standard where prices actually increased. Don't expect a \$199 device! We know heat/shock/water resistance will be needed for real field work.*



# Deerfield Beach

## 3.10.2014

### Session 1

- *Total budgets will remain about the same as what we have now. Lower cost on the units but more options for devices/applications. You subscribe and buy the ones that make sense.*
- *FirstNet core will have a set of open architecture standards everyone can build to.*
- *Where do we want what coverage? Where is coverage mission critical and where do we need it? That's our next step.*
- *The need for multiple cards to get coverage should diminish. LTE will enable users to have commercial coverage. We shouldn't have to build a lot of additional towers in FL to*
- *Cyber security: who's on the core and protecting our credentialing will be crucial. Many of these issues have been addressed by DoD. We'll be able to leverage these capabilities with FirstNet.*
- *Why will commercial providers let FirstNet on their towers? Simple really. The need for mobile data is exploding. The amount of spectrum FirstNet can provide is huge. We only need a small portion of the public safety spectrum most of the time. In an incident, commercial traffic can*
- *Q: will there be an extra appliance needed?*
- *A: could be your laptop. I have a hard time seeing first responder (active shooter) grabbing an iPad.*
- *Unlikely you'll be entering a lot of data...more likely you'll be receiving data. Plans/images/interior building cameras will be shipping to responders.*
- *More of a Command post situational awareness piece?*
- *Yes...probably tools that first responders will use/wear on an incident basis. If you're already carrying a laptop you'll see the device getting smarter and faster. Expect to see this getting better over time.*
- *Hands will be on our weapons/hoses. Incident command will have a LOT more insight to work with.*
- *Q: FirstNet controlled by state or by the user/county?*



# Deerfield Beach

## 3.10.2014

### Session 1

- *A: this will depend on the situation. (i.e. priority access for who gets the big bandwidth may vary....a Federal radiation event might preempt others if we need chem/bio access). Responders will have daily access to the network. Aircard. High speed.*
- *Q: Privates that are out there now...dumping.*
- *A: Do we need streaming data all the time? Probably not. Do we need occasional feeds?*
- *Q: Who manages this?*
- *A: This is the big issue. We need to build the team that manages this flow. Likely we have too few people to do this. We'll need to have camera views and all of this dropped in. Envision a scenario 10 years from now. Watson has every database in the world, every word that's been published. The trick is getting access to insight.*
- *Computers are now smarter than people in terms of finding the right answer.*
- *Incident commanders will have a lot of smarter options. We'll have a million past responses in the database that worked (and didn't work). Most likely alternative will be ginned and offered up to boots on the ground.*
- *Definitely a migration over time.*
- *Q: Someone's got to be the Director. Will this be based out of Tally? Any clarity here.*
- *A: This is not incident response....this is data.*
- *Will Commerce have oversight on the actual programs?*
- *A: Will show you more in the opt-in or opt out phase. There is no requirement for anyone to opt in...but if you aren't plugged in to the core you won't be talking to anyone else.*
- *Expect new appliances and higher speeds. These tools are already available and deployed*



# Deerfield Beach

## 3.10.2014

### Session 1

- *The Feds have much bigger problems building this network than Florida. Expect if we deliver a well thought out program it will be well received. We are the lead state in terms of design, momentum and support from private partners.*
- *Design complete by 1Q/2015 is our target.*
- *Public Safety Advisory Councils (PSACs) are drafting a first round of local control priorities within a set of known incidents. Start here to frame what we think local control means.*
- *Q: if they're using the network in CA will it hurt us here?*
- *A: No. This is a statewide high speed network with plenty of capacity where we decide it's needed.*
- *We expect significant negotiation in this process. It will be built in FL regardless of decisions made on opt-in or not. We think we can have great influence on the plan...and help identify key coverage and priority issues that will significantly improve it.*
- *Who will notify us on next steps?*
- *IO committees. If you registered on the site*
- *DEM involvement?*
- *Yes*
- *Kevin's participated via FL Fire chief meeting. Very supportive. Also Steve casey for Sheriff's Assn.*
- *Discussion Notes*

#### **Data Sharing**

- *The orientation slide deck materials were presented*

#### **How to Participate**

*Summary Discussion Notes from Discussion in  
Deerfield Beach, FL Summary: March 10, 2014 Session 1  
Not Verbatim Comments*



# Deerfield Beach

## 3.10.2014

### Session 1

- *The orientation slide deck materials were presented*

#### **Discussion Notes**

- *We need your IT/Data people at the next round of workshops. When you leave you'll have access and passwords to begin submitting data*
- *Fall 2014: Expect a multi-day meeting with a lot of discussion/negotiation to build the seams*
- *Q: migrating from FloridaNet TO FirstNet*
- *A: Not FIN or GIN. This is wireless broadband piece that will guide the future. Institutionalize SCIP and IOCs to establish locally governed processes that have solid connections to the grass roots. Let's think through a governance model that includes a LOT of local input into what's build*
- *Q: is there a private sector model?*
- *A: yes: They're there at AT&T and Verizon, but it isn't hardened and it isn't dedicated to PS. We have seen private equity models offered. There are people who aren't currently cellular carriers who are interested in participating.*
- *We will have a business model in place that makes sense for public safety. This WILL happen. We need to develop a set of alternatives and strong recommendations of what we think will work.*
- *Q: We're concerned about legislation and potential political changes and how they may impact this process*
- *A: Always potential wildcards. T*
- *Q: Is there a mechanism to prevent the private sector from taking this over?*
- *A: In terms of control, they must agree to having a public safety oversight. FirstNet owns this spectrum...not the private sector. Any private sector option must adhere to the guidelines that have been established. Outsourcing is logical to expect. Gov't owned spectrum with local decisions on when the network gets over rided. Private sector operation and running is logical. Public Safety choices on how the network gets run.*



# Deerfield Beach 3.10.2014 Session 1

- *We may not be here when the network gets deployed, but we owe this to the next generation of public safety professionals to deliver better ways to keep them safe and do their jobs better.*



# Deerfield Beach 3.10.2014 Session 2

## Participants

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### FloridaNet

- *Band14 Dblock---this is a continuation of this discussion.*
- *The orientation slide deck materials were presented*

### FirstNet

- *The orientation slide deck materials were presented*
- *Figure 2 generations of evolution in LTE (or 10 years whichever comes first) before we see it for mission critical voice*



# Deerfield Beach

## 3.10.2014

### Session 2

- *How many cards are necessary in Martin County for complete coverage? 2 here. Some areas need 3. This is what FirstNet will address: better, faster coverage.*
- *Appliances are being tested at the Boulder lab right now. New applications, appliances and technologies for first responders are already developed or will be developed. 1 appliance with multiple functionalities are on the horizon.*
- *Private sector realizes that applications are the future.*
- *New/different levels of security will be needed for cyber-security. DoD-support is helping.*
- *Private sector WILL trade out tower access. Here's why. 13x the data that was on the entire internet in 2000 was transmitted in mobile applications last year. This will increase by over 18x in the next 10 years.*
- *The battle for D-Block was intense. Public Safety won it.*
- *What will first response start to look like?*
- *Voice will drop by maybe 70%*
- *Evolution of response will take place over time*
- *IBM/Google have big data applications that can help make better decisions that responders are currently making*
- *Opt-in BUT ( we need help with rural coverage) ...Opt-in AND (we can provide more in-kind resources*
- *FIN net will be riding on this?*
- *Yes. It's up to you if you want to use this architecture. You'll be able to access the internet and use approved web-based tools you like.*
- *Q: if they allow private IP networks would they restrict a digital LMR system?*
- *A: probably yes*
- *Q: How will information be provided for the next step: tower/saturation coverage mapping?*
- *A: yes*
- *Q: is there any fee per months?*



# Deerfield Beach

## 3.10.2014

### Session 2

- *A: Nobody wants to go there. \$39.99 or less is what we can afford. There is a value proposition or nobody will subscribe. George is using 2 cards to cover his county.*
- *Pricepoint is about \$40 in FL. Above that it will have to be a screaming deal to be considered*
- *Q: Where will this be housed for FL long-term?*
- *A: DHSMV is where this begins. Speculation we'll want to establish a long-term data commission. Sheer speculation.*
- *Our job is to have this approved before the next legislative session. Greg Holcomb is charing design*
- *Can you clarify the relationship between DHSMV and First net?*
- *We helped with channeling the cash match and in-kind match. Emergency management is the grant manager. DHSMV is managing the dialogue. The process has not been captured by anyone yet.*
- *We should be designing a governance model the locks in local input and control. We're committed to this*
- *Most states have a broadband commission. Most of these groups are paralyzed about how to respond to the FN requests. Too focused on political outcomes. This is why a grass roots approach makes more sense.*
- *Q: why is mission critical voice trailing so far?*
- *A: if you tune the network for voice it has a huge impact on your data capacity. More importantly there are not mission critical standards yet. 3<sup>rd</sup> component: when field data was launched voice declines in importance.*
- *Standarda/Tech-Testing issues/Network tuning is different for voice and data*
- *Let's not take on LMR yet...lets roll out with data on it.*

#### **Data Sharing**

*Summary Discussion Notes from Discussion in  
Deerfield Beach, FL Summary: March 10, 2014 Session 2  
Not Verbatim Comments*



# Deerfield Beach

## 3.10.2014

### Session 2

- *The orientation slide deck materials were presented*
- *GIS data from the State or from private industry?*
- *BOTH. We know where utility fiber (current and future is planned) .*
- *Then we'll seam this together at a regional level*
- *Expect about 40 data fields. Technical committee is putting this together with Greg Holcomb to deliver a custom map of each county.*

#### **How to Participate**

- *The orientation slide deck materials were presented*
- *WE need validation of what's there...and where we have coverage gaps for first responder.*
- *We can either build a governance model that works for us of have one imposed on us. Easy*
- *Who will FloridaNet be? All to be determined. All of this will be passed along to whoever takes over.*

#### **Discussion Notes**

- *Fire Departments aren't CEGIS. May restrict/eliminate Fire and EMS*
- *Can we do a quick clearance on the people who do the survey*
- *DO it please!!*
- *Highway Safety people can do this. Avoid internal politics*
- *Verify this and add to FAQ*
- *Governance and Security Clearance levels necessary*
- *Private network hardening standards belong in the notes*
- *We will spend a lot of money hardening existing towers. Find the newest, best installed towers that aren't completely weighed down to add coverage*



# Deerfield Beach

## 3.10.2014

### Session 2

- *Coverage maps and hardening maps won't be the same. In building priorities will need to be defined. This will be hard work.*

#### **Notes from Update Call**

- *HSIN (Homeland Security Information Network) might be a way around the Fired Dept. CGIS question.*
- *Generic issues raised from discussions about opt in; opt out need to be turned into some 7-8 MOUS that enable folks to look at this. **IdeaScale** can help.*
- *...but there is an even more sophisticated discussion that needs to take place.*
- *Miami-Dade will be able to tackle this at a higher level. Have at least one county in one of the regions that outline SML assumptions and deeper discussions. Probably a second round of IdeaScale helps.*
- *4/9 Executive Meeting?*



# Deerfield Beach 3.11.2014 Session 3

## Participants

Name	Title	Organization	Phone	Email
Steve Thornton	Emergency Preparedness Coordinator	Broward Health	954-468-8071	sthron@browardhealth.org
Roger Baltz	Assistant County Administrator	Martin County	772-288-5503	rbaltz@martin.fl

### FloridaNet

- The orientation slide deck materials were presented
- FloridaNet will be some kind of legal entity with more formal governance in the future. All other states are doing something similar
- Who is on the Basecamp site? A lot of local governments and first responders.
- HSCIM (homeland security protocols vs. CGIS) may be used so we're better able to include public health and fire responders
- Rural counties of FL: first responders need Utilities. Debris removal is the first step. Local priorities and needs vary depending on who you are and the scenario...and who gets priority in an emergency scenario.

### FirstNet

- The orientation slide deck materials were presented

### Data Sharing

- The orientation slide deck materials were presented

### How to Participate

Summary Discussion Notes from Discussion in  
Deerfield Beach, FL Summary: March 11, 2014 Session 3  
Not Verbatim Comments



# Deerfield Beach 3.11.2014 Session 3

- *The orientation slide deck materials were presented*



# Deerfield Beach

## 3.11.2014

### Session 4

#### Participants

Dave Radzivill	Fire Planner	Tamarac Fire	954-597-3827	davidr@tamarac.org
Rick Byrnes	Disaster Preparedness	FDOH	561-596-4102	Richard.byrnes@flhealth.gov
Jonathan Franklin	M.R.	Motorola	954-275-6854	jf@signalcommunications.com
Cerina Anders	Communications Manager	Boca Raton PD	561-416-3327	canderson@myboca.us

#### FloridaNet

- *The orientation slide deck materials were presented*
- *Discussions on common carrier interest/participation*
- *No special access to information...all subject to sunshine*
- *PSOC sent the first round of generic inventories out last week.*
- *Our goal: produce 7 Regional Domestic Security Task Force White papers (SML) that will be first cuts at how MOU/Business plans might work. They should be written from a financial perspective to frame alternatives for decision makers and county commissioners. This will be a way to let people weigh in on the models.*
- *This will help frame alternatives for what Florida supports and can live with*
- *HSIM clearance will likely*
- *Will this also fit into CASM for mapping?*



# Deerfield Beach

## 3.11.2014

### Session 4

- *Will more information be maintained on line*
- *Broadnet was NTIA funded via a grant. Complete GIS infrastructure appears here...a very comprehensive set of tools for mapping and coverage.*
- *We plan to get business models put together/identified and vetted before anybody wants to get involved from a legislative perspective. As much as we can figure out by next July*

#### **FirstNet**

- *The orientation slide deck materials were presented*
- *VTOP heartburn for several systems that got out ahead of the spectrum leases in MS/AL/AR.*
- *When we implement great voice over data DoD has seen 70% reduction in "chirping." i.e. where are you? This is a revolution in providing new tools in ways they don't have now.*
- *Your iPhone apps are LTE right now.*
- *Think about the possibilities of Tamarac designing an app. Motorola helps design this for free. Motorola makes money off this. Tamarac might get this for free. The new legislation enables different thinking about public-private partnerships*
- *We expect a plethora of devices in many shapes and sizes*
- *Supplier value proposition will be key to local users*
- *What's the FloridaNet value proposition? WE GET TO DESIGN THIS*
- *Big hurdles if we decide to opt out....although there might be options that make sense.*
- *Opt-in AND (we build out, but want 2-wall capability, for example)*
- *Opt-in BUT (you will build in 2-wall capability*
- *Having FL build anything is probably risky, but finding private partner might make sense.*
- *Remain Silent? FirstNet will build the core*

#### **Data Sharing**

*Summary Discussion Notes from Discussion in  
Deerfield Beach, FL Summary: March 11, 2014 Session 4  
Not Verbatim Comments*



# Deerfield Beach 3.11.2014 Session 4

- *The orientation slide deck materials were presented*

## **How to Participate**

- *The orientation slide deck materials were presented*





9/6

**MEETING SIGN-IN SHEET**

Project: **WAB FIRENET**

Meeting Date: **10 MARCH 2014**

Facilitator:

Place/Room: **DELRAY BEACH I**

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