



## FloridaNet Executive Committee Meeting

**06/26/15**

The FloridaNet Executive Committee had a meeting on June 26, 2015 at the Homewood Suites in Tallahassee, FL. The following members and guests participated:

Name	Affiliation
<b>EXECUTIVE COMMITTEE</b>	
Terry L. Rhodes, Chair	FL Department of Highway Safety & Motor Vehicles
Greg Rubin	Miami-Dade Fire Rescue
Donna Uzzell, Homeland Security Advisor	Florida Department of Law Enforcement
Mike McHargue	Florida Department of Health
Greg Holcomb, Technical Committee Chair	Lake County Public Safety
Mike Sole, Private Sector	Florida Power & Light
Ralph Sullenberger, Major	Florida Army National Guard
Dr. Peter Pappas, Ex Officio	Health-First, Holmes Regional Medical Center
Josh Mindick, <i>for Daniel Alexander</i>	Florida Police Chiefs Association/Boca Raton PD
Paul Steinman	Florida Department of Transportation
Dr. Joe Nelson, Ex Officio	Florida EMS Advisor
Phil Royce	Florida Division of Emergency Management
Kevin Herndon	Florida Fire Chiefs Association
<b>OTHERS</b>	
Larry Gowen, FloridaNet Director	FL Department of Highway Safety & Motor Vehicles
Ryan Burchnell, Major	FL Department of Highway Safety & Motor Vehicles
Alex Perry	FL Department of Highway Safety & Motor Vehicles
Mike Phillips	Florida Department of Law Enforcement
Mark Trammell	Florida Department of Financial Services - SFM
Patti Spain	FL Department of Highway Safety & Motor Vehicles
Kathy Cruce	FL Department of Highway Safety & Motor Vehicles
Amy Serles	FL Department of Highway Safety & Motor Vehicles
John DiSalvo	SAIC
<b>ONLINE</b>	
Bobby Brown, Executive Committee	Seminole Tribe of Florida
Jason Allison, Executive Committee	Florida Governor's Office/AST
Yuki Miyamoto	NTIA
Terry Nehring, Technical Committee	City of Tampa
Steve Hagner	City of Jacksonville
Christophe St. Luce	City of Hollywood
Pam Montanari	DHS/OEC
City of Jacksonville	City of Jacksonville
Dr. Richard Ferner	St. Petersburg Police Department
Emery Gainey	FL Office of the Attorney General
Eric Larson	Florida Agency for State Technology



Jim Eatrides	Alpha-Omega Communications
Kevin Lombardo	Harris
Lee Moreno	Microwave Networks
Stephen Boyle	Generac Power Systems
Derek Nesselrode	Kentucky
Mercedes Thatcher	Crown Castle
Frank Ullven	St. Petersburg Police Department
Jason Nettles	Putnam County Sheriff's Office
Brian Whaley	Motorola Solutions
Christopher Campbell	CGI, Inc.
Carlton Wells	Florida Department of Management Services
Tom	
Norm	

Called to order at 9:00am.

The following topics were discussed:

1. Welcome
2. Call for Vote – Paul Steinman
3. Executive Committee Vacancies
4. FloridaNet Update
5. FirstNet's 2<sup>nd</sup> Public Notice
6. FirstNet's 3<sup>rd</sup> Public Notice
7. FirstNet's Draft Request for Proposal (RFP)
8. Data Collection
9. Technical Committee Activities
10. Contract Vehicle Survey Status
11. Other Technical Committee Activities
12. Project Plan/Budget Overview
13. Upcoming Events
14. Comments/Questions
15. Action Items

## 1. Welcome

-Larry Gowen welcomed everyone on behalf of Director Rhodes, SPOC. Public comment was encouraged for the end of the meeting. All participants online would be muted during the meeting to avoid disruption, and any questions need to be directed to the chat log.

-Roll was taken.



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## 2. Call for Vote – Paul Steinman

-Paul Steinman, District 7 Secretary, has been recommended to be added to the Executive Committee as a Florida Department of Transportation (DOT) representative.

-Mr. Steinman introduced himself and gave his background, including being a part of the Public Safety Advisory Council (PSAC). It was recommended that Mr. Steinman would be an asset to the Board, given his background and he could give updates from the PSAC.

-Mike Sole made a motion to approve. It was seconded and all approved.

## 3. Executive Committee Vacancies

-Florida Department of Management Services (DMS) – John Ford left and now we need to reach out to see who could fill that position.

-Private Sector Partner – Colin Denney moved to another area within Verizon and is not working on the FloridaNet project anymore. Larry is trying to find a replacement from Verizon.

-Should we reach out to select another private partner?

## 4. FloridaNet Updates

-Larry introduced Alex Perry, newest member of the FloridaNet team. Graduate of Florida State University and University of Miami. He joined in April at the same time FirstNet released their notices.

## 5. FirstNet's 2<sup>nd</sup> Public Notice

### -Devices

-FirstNet defined equipment in the Notice is equipment 'on' the network, rather than that make up the network. Florida agrees with this.

-Florida suggested that the devices work seamlessly across the network, and not depend on who opts in or out; there should be no hiccups

-Mike Sole: Does this comment refer to only the Gulf states or is it nationwide?

-Alex: Nationwide.

-Greg Holcomb: The issue is two pronged: immediate threats and then nationwide

-Florida suggested that the devices need to be compatible with FirstNet and commercial networks; no "bricks"; there needs to be backwards compatibility so a device can roam onto a commercial network, if necessary



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-Because FirstNet says that as long as a phone uses open standards for connectivity and interoperability then it meets the intent of the Act. Florida suggested a competitive ecosystem, greater economies of scale; multiple manufacturers and multiple vendors would equal lower cost.

#### -Network Policies

-FirstNet indicates that the commercial partner chosen may help shape some of the technical elements.

-Florida was concerned with this and commented that there should be proportional influence: States (local users) and Tribes should determine majority of the Network policies, then FirstNet and the PSAC, and then commercial partners. Because the commercial partners know Long Term Evolution (LTE), then they may help, but they shouldn't be the default.

#### -FirstNet State Plan

-The FirstNet State Plan is not a contract; states "participate" in the Nationwide Public Safety Broadband Network (NPSBN); this could mean that what they give you may not be there because it's not contractual

-Florida commented that if the plan materially changes after delivered, then the State can go back and renegotiate

-Florida suggested that there should be data sharing between FloridaNet and FirstNet and not just FloridaNet to FirstNet; it should be reciprocal; Florida would want to know costs, coverage models, and FirstNet wants where our Public Safety are, what they're using for data, etc.

-Mike McHargue: Is the shaping of the operational requirements something for the Technical Committee to review?

-Greg H: Proportionally, regarding the influence towards the network policies, FloridaNet is the States & Tribes portion. Public safety needs to drive how the operation functions and not how it's built (e.g. how we can roam between systems). The question in the Notice seem to suggest that most of the influence would come from the Commercial Partner chosen. That's not a Public Safety network, that's a carrier network with public safety users.

-Larry: FloridaNet believes that the intent of the Act was to use the consultation process with Public Safety to help shape the network policies.

-Mike M: Could we advise on technical partner?



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-Larry: FirstNet will choose their partner.

-Greg H: That's what the RFP process is for. They will choose a partner or partners for the nationwide network. It's not clear if they will have more than one partner.

-Ryan Burchnell: Priority and preemption policies should not be determined by the commercial carrier. All of these Requests for public comments are a way of understanding what the needs are, and influencing the RFP.

-Larry: FirstNet also noted in their comments that this is part of their consultation process. It's imperative that we respond, because if we don't, then we're basically agreeing with all that's in the document.

-State-by-state Delivery – FirstNet has proposed to have state plans delivered state by state and not all at once, because of issues that they might face if they do it all at once (e.g. litigation in one state might affect the rest). Florida suggested that since we are a large state, and a heavy influencer, then we should get our plan earlier. A state like Florida will help fund the rest of the nation.

-Mike S: Why do we want to go first, since there might be difficulty and some lessons learned?

-Larry: Initially, we wanted to go first, but now we want to be a leader in partnering with FirstNet to design the network. We are noticing, under the leadership of Sue Swenson, that FirstNet activities are starting to ramp up and things are starting to go in the right direction.

-Greg H: Put simply - Be part of the process, not a product of the process.

-Peter Pappas: Agrees with Mike Sole, that Florida should not be the guinea pig of the process but should help shape the process.

-Larry: We responded to the first public notice and were quoted in the second and third public notices. They are paying attention to what Florida says so we have a voice.

-Mike S: Fully supports being the first in shaping the policies and implementing them, but suggests that we be thoughtful of being the first because since this is a huge process, then there are going to be challenges and it may be easier to let another go first.



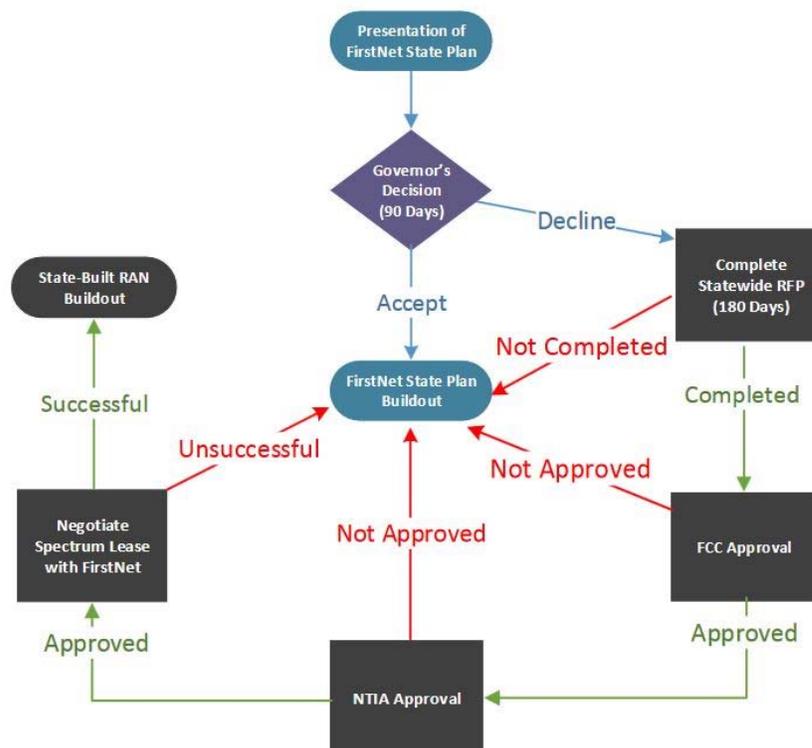
-Paul Steinman: There are FirstNet pilot programs across the nation, e.g. JerseyNet, which are the “guinea pigs” of this process. So Florida wouldn’t necessarily be the first ones to implement this.

-Greg Rubin: The science is already there and most of us already use LTE. We want to be the leading edge of shaping the system, not cutting edge.

-State plan contents – FirstNet asked what should be in a state plan that they deliver. Florida suggested interoperability, technical capabilities, timeline, cost-effectiveness, security, coverage and quality of service. Reason being, because the Governor has 90 days to decide and 180 days to present their own plan if Florida decides to opt out, there must be the same criteria to judge upon if a state plans to opt in or out.

### -State-Built RAN

-Below is the process for an opt-out state to use if they decide to build their own RAN. FirstNet says that the State’s decision must be for all within its boundaries, but the Tribes should be able to negotiate directly with FirstNet and we encouraged that.



-If a state decides to do its own RAN, then they will have 180 to complete an RFP which is a complex process. It’s not that it would be “complete” but rather that it meets certain comparable obligations.



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-If a state fails to complete or get approval anywhere along the process, then they default into opting in to FirstNet's plan.

-National Telecommunication and Information Administration (NTIA) approval hinges on the contents from above: interoperability, technical capabilities, cost-effectiveness, etc.

-If a state gets approval from the NTIA, then they will have to negotiate a spectrum lease with FirstNet. It has to be cost-effective. Cost-effectiveness is on a national level, rather than at a state level. If you suggest a plan that indicates that it will reinvest too much of the revenue back into the state, then it could be considered not cost-effective.

-FirstNet is strongly encouraging all states to accept FirstNet's State Plan because if a huge state does not participate, then it could affect their financial model. Once all of the steps are fully established, it will still be very difficult.

-Mike S: Is this the law? Are they clearly defined?

-Larry/Alex: We are still waiting on the process to be defined, but we are not sure. It could be FirstNet's interpretation.

-Greg H: FirstNet is strongly encouraging, but it seems to be very difficult to opt out. A lot of the approval process is unknown.

-Peter: There is a lot of ambiguity, and disincentive for the states.

-Alex: In the Act, it does say that a state can explore other options. But they need states to fund FirstNet.

-Mike: Understandably, this is federal program and you want a lot to participate, but what was outlined seems like a process of failure. Are we asking this state to blindly accept FirstNet's State Plan? And to put so many obstacles in the way if we opt-out, then that's not desirable.

-Alex: Florida tries to let FirstNet know that we need more State Consultations so we can have data sharing go both ways.

-Mike S: Concern over not really having a choice.

-Director Rhodes: We need to be very sensitive and cautious.

-Greg H: We have heard this same concern from other states at a lot of federal meetings. There is a concern that there has been so much time and effort going into the FirstNet plan and states will only have 90 days to review it.



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## 6. FirstNet's 3<sup>rd</sup> Public Notice

-FirstNet is seeking the definition of "Public Safety Entity"

-Florida has said they want a broad definition since during different types of disasters, we have any number of disciplines that interact. Some public safety groups are saying it should be the main three (Fire, Law Enforcement, and EMS), but Florida agrees with FirstNet and their broad definition. Because there are numerous different entities within a state, then we suggest that it should be determined by the local users rather than a blanket definition across the nation.

-Joe Nelson: Agrees with statement, and uses example of EMS and how there are many different entities within EMS, and worries that something will get lost in translation.

-Alex: Once the definition is agreed upon, it will be for the entire nation, but once it gets down to a local level, then the process can be defined by local users.

-Peter: Once this get implemented then we need to make sure that decisions need to be at a local level.

## 7. FirstNet's Draft Request for Proposal (RFP)

-This is in process now, FloridaNet has asked questions and comments are due 7/27/15, so we have working groups to finalize a submission. FirstNet has not released all of the RFP at this time, but what has been release is mostly the technology side. The technology side is the easy side because they've got a lot of it figured out, so the difficult side will be the policy side.

-FirstNet is seeking feedback on FirstNet's approach, deployment and operation of the Network, proposed financial sustainability model, operational architecture and other draft RFP documents.

-FirstNet's approach: two different methods

-Nationwide Approach: One contractor will be in charge of the nationwide core network, covered leasing agreements (CLA) of the excess capacity, radio access network for all states/territories; FirstNet makes sure it all goes as planned

-Regional Approach: Dividing the nation into regions, smallest region would be a state, and each region would have their own CLA and RAN

-Deployment and operation of the Network: this would be divided into five (5) phases, and would be begin six (6) months after the award of the contract. Band Class 14 will be switched on with basic access and then as time moves on there will be more coverage, more hardening and more resiliency



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-Proposed financial sustainability model: \$7 billion from Congress plus fees (users, network access, etc.) plus synergies (leveraging public/private infrastructure) plus excess network capacity (FirstNet indicates that this is how it will be mainly funded) minus the costs. To put the value of this network into perspective, just recently there was an auction for 65mHz of spectrum in a high frequency (good for dense areas but not for rural areas), the final bid was approximately \$44 billion for the nation and about \$2.8 billion for Florida. How will this work in Florida?

-Mike S: Will this model be on a national scale and will they look to Florida to subsidize the other states?

-Larry/Alex: Yes. FirstNet is depending on high density states where there is a lot of value to help fund the states that are more rural.

-Peter: Can Florida negotiate a cut, since we have such a high population?

-Larry: We have had informal discussions with FirstNet concerning this and FirstNet is not very clear. They are starting be more open but there is not definitive answer. From the recent SPOC meeting, the concept of donor and recipient states was introduced. FirstNet has indicated that there are six donor states and it's critical that those six are a part of the opt-in Network. Florida is assumed to be one of the six.

-Joe: This nationwide vs regional approach is a huge factor, so when are they going to decide on which one? Who has looked the pros and cons of both approaches?

-Alex: FirstNet is asking the private sector/contractors what to do; what is the better approach through this RFP. The final RFP should be delivered in late December or early January. The businesses will figure out a way to make this work and FirstNet will agree as long as it meets the requirements of the Act.

-Ryan: Key point is cost-effectiveness and the definition is different for nation and states. FirstNet's intent is not for one state to have a "platinum" network while the rest of the country has a "bronze". It seemed like a clear indication of FirstNet's approach.

-Alex: FirstNet will deliver a state plan they will be given certain criteria and that can be compared to your state-built RAN option, but when it comes to cost-effectiveness, then it will be based on a nationwide level. If a state produces a plan that is not cost-effective, FirstNet will come in and build the Network in that state, but if a state is too cost-effective for the State then that is considered

insufficient use of funds and FirstNet will come in and build the Network that state.

-Ryan: Not received well by many states. It might be a moving target and makes it difficult to make an opt in or opt out decision.

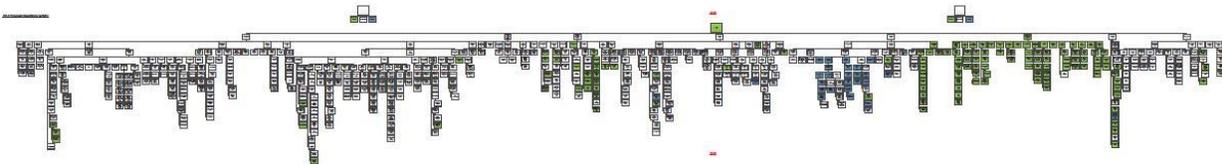
-Mike S: Will the federal government set the fees?

-Alex: The fees are under a most favored nation pricing clause in the draft RFP, so if one public safety user gets a certain price, then so do the rest.

-Carlton Wells – Who are the 6 donor states?

-Larry/Alex: Most possibly FL, CA, NY, TX, DC, and one other; most likely a densely populated state. You can get a sense of which ones from observing the AWS auctions. There will be another one for the 600 MHz range in late 2016 (December).

-Operational Architecture is in the draft RFP and something that the Technical Committee has been helping on. There are 634 items on this chart. Only 16 are technology related and show how the Network will work. It is divided up into colors: green represents FirstNet, blue is Public Safety (*items appropriate for ownership, but some smaller agencies might not have the resources to implement*), and white is what FirstNet is seeking comment on.



-FirstNet sought questions on the RFP. So far, they answered about half of what was submitted. Sixty-three (63) entities commented and six (6) of those were States. Florida wants to make sure that wherever we can make a comment, we do. The questions that Florida concentrated on were coverage, throughput values and local control as a service.

-Coverage in the Act is defined as 756kbps downlink and 256kbps uplink, on the cell edge with 50% loading. In comparison, commercial carrier can provide 5Mbps downlink and 2Mbps uplink, which is faster than what FirstNet is requiring.

-Greg R: At the last PSCR, they finally discussed attenuation. Regardless of what FirstNet has advertised, if the coverage isn't there then it's not going to help.



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They are not designing for In-building coverage, as Public Safety did with Land Mobile Radio (LMR) and in-building penetration.

-Peter: That *(re: the coverage FirstNet is advertising)* is useless.

-Greg H: This is the challenge of doing a national RFP, trying to advertise having the same coverage for rural and urban. They are looking at the lowest common denominator, but hopefully through the RFP process, they will indicate that based on population density or similar, differing coverage models.

-Greg R: If FirstNet is not going to provide at least what commercial carriers are offering now, then it's pointless.

-Alex: without the criteria of the priority, preemption and local control, you are just on a commercial network that happens to have public safety on it.

-Greg H: The irony is that at the end of the day, this is not a contract, so we're not guaranteed these rates either.

-Alex: We asked how will this technology evolve and upgrade?

-Throughput Values – Coverage is defined using average downlink throughput per square mile: Red grid – 3.0 Mbps (high), Blue grid – 0.5 Mbps (moderate) and Green grid – 0.1 Mbps (low). This variation is exponential. This will mean slower speeds and more congestion.

-Local Control as a Service

-How is it defined? What is the difference between local control and “local control as a service”? *(3<sup>rd</sup> Party software could be considered for this?)* Who gets billed for it? *(If a major event happens and different entities are on scene, who pays for it?)*

-So far the answers to the questions have been technology related from the vendors. They seem to be holding back on the policies.

## 8. Data Collection



FirstNet Baseline Coverage Map

(in 1x1 mile grid blocks)

RED – 3.0 Mbps (high)

BLUE – 0.5 Mbps (moderate)

GREEN – 0.1 Mbps (low)

Dark Gray – Federal lands/Tribes

Light Gray – Terrestrial Coverage

-The maps that FirstNet has provided has a good general idea of where coverage is needed, but what kind of coverage is needed is what we'll be seeking. If you zoom into an area, it is apparent that there are gaps and slow throughput. The definition of coverage is at least 50% of the grid block has to be covered and then it can be considered the whole block. This is potentially mean that there are dead zones in the middle of what is considered covered.

-Greg R: If this is what FirstNet is going to provide, then compared to a current carrier's map, then service could be declined.

-Larry: We want to use our historical areas of response: where public safety mission is now. It gives factual data and proprietary issues with the carriers.

-Greg R: We try and determine where a majority of people are going to be, which usually leads to a majority of the problems.

-Greg H: These maps are where the people are today; no forecasting.

-Alex: Maps were based on five things: public safety user density, population density, major roadways, soft targets, and one other.

-Director Rhodes: Asked if Greg R does predictive analysis.

-Greg R: Can't predict; Miami-Dade bases their radio coverage on their urban development boundaries.

-Alex: The map shown is just a baseline and we need to respond to FirstNet with hard data so Florida can have some say. If not, FirstNet will give us what their partner suggests.

-Data Collection: FloridaNet will use a secure file sharing service that has encryption included. We will look for: response locations, data usage, crash data, applications, providers, Computer Aided Dispatch (CAD) data, and latitude/longitude data. We encourage that data sent should not be public safety sensitive.

-Contracts with the RFP are to last until 2022 with the option to renegotiate by 2027 which is when FirstNet needs to be reauthorized by Congress. So if they get reauthorized by Congress then you can renegotiate your contract by 2032. Keep in mind that right now we want a network that uses current speeds, but what happens when updated technology comes out? How will the Contractor be incentivized to keep up with technology?

-Joe: How will the data usage be for 20 years down the road? And do you predict?

-Greg H: We're building network for future generation, since most of the board will not be there in 2027. We may not be the recipient of the Network. So much changes, like the contact lists we have put together.

-Peter: It's about building tools and keep it as flexible as possible for future generations to modify and upgrade.

-Larry: Message from this – we're building this for the future.

-Need any data that's not sensitive that we can put on a map. Below is a comparison of FirstNet's baseline coverage map and Florida's crash data for the month of January in 2015.



*Crash Data – January 2015*



*FirstNet Baseline Coverage Map*

-We want to make sure that we let FirstNet know that the map does show coverage needs but not enough. The more data we can get the better coverage we will get. And we need to let them know what speeds we need.

-How will we get the data to FirstNet? Feed it through CASM NextGen, a mapping tool. We want to use this website because it will outlive this grant and save the data that we collect. It is



funded through Department of Homeland Security (DHS). Florida wants to improve the current interoperability and use CASM NextGen to put in all of our assets.

### 9. Technical Committee Activities

-Greg H: FirstNet just released two requests for comments (RFCs) and a request for proposal (RFP) from March to May and he wanted to recognize the FloridaNet team efforts and their coordination to put together these responses in a short period of time.

-In Region 1, we just had Rob Fortner, Bay County, vacate his position and the Technical Committee selected George Hawkins, Santa Rosa County, to fill his role.

-In Region 3, we did not have anyone for a while, but we did have Rolf Pruess, Flagler County, in the position for a little while until he vacated his employment. Then we chose Alphonso Gordon, Marion County, to fill that role.

-We welcome both of them and their subject matter expertise to the team.

### 10. Contract Vehicle Survey Status

Region	Sent	Bounced	Surveys Started	Surveys Completed	Partials
1	52	7	9	3 (6.7%)	6
2	90	14	16	11 (14.5%)	5
3	76	10	21	15 (22.7%)	6
4	117	10	29	14 (13.1%)	15
5	203	-	105	65 (32.0%)	40
6	79	4	28	16 (21.3%)	12
7	96	4	9	6 (6.5%)	3

*\*As of June 19, 2015*

-This list is a result of the Contract Vehicle Survey status. Region 5 was the test region and began surveying prior to the other regions.

-We struggled with list due to the Contact list. We found out in the beginning, during the test phase, that it was difficult to assemble a list. Everyone has their own lists, but there is no master list. We went through several processes to assemble one, and we had to eventually rely on our Florida Department of Law Enforcement (FDLE) regional planners to help get us contact information. We believe that the lists are about 80%, but as we assemble and send back out, some information has already changed again. If we can get organizations to take the survey, then the survey itself will take care of creating/generating new lists.



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-In creating the survey, we followed the federal government's model loosely. Theirs has about 90 questions and Florida's survey has 18 questions. We felt like their survey went well above what we were trying to track and we pared it down to the pertinent data. The survey was sent out to all of the contact lists and we continue to stress to the Interoperability (I/O) chairs the importance.

-There are links on the website for each region to participate. These should be pushed out by each region's I/O chairs.

-The current survey results might not reflect what's out there. The State agencies are intermingled in each of those regions, so the challenge is: How do we capture state department level? Who fills it out? Does a state department fill out all regions? Does it truly represent that agency? At the local level, we've just encourage them to just fill out the survey. We know, on the back end of the survey, we know who is filling out the survey. And we can monitor the results, because there may be some anomalies. Amy Serles is tracking and sending reports back out to the regions to indicate each region's status. We encourage participants to send along to new entities that emerge.

## **11. Other Technical Committee Activities**

-Continuing to work on RFP response. Meeting between FloridaNet team and Technical Committee meeting through conference calls and online. Thought process for answering some of the questions was instead of yes or no, we were going to ask questions to help with clarification.

-To get CASM access, let Greg H, Phil R or Nick S know. It may seem like a new tool, but it has been out there since 2008. Some out there may know about it, but they may not know all of the new features.

-The Technical Committee is wide open and not exclusive, so we encourage participation. We are encouraged by having a Florida Department of Transportation (FDOT) member on the board and a member from DEM who is also a Statewide Interoperability Coordinator (SWIC). Also, having someone who is a part of PSCR is great. They do a lot of the lab testing. We understand that everyone has a day job so it becomes difficult to have everyone on the call, but we continue moving forward, no matter how many people are on the call.

-Greg Holcomb asked Greg Rubin to bring in a device that Florida is testing out. For the past couple of years, they have been looking to deploy smart phones. One of the challenges was that they were not durable for today's use. Most of us go out and buy a nice new phone but buy a case for it, but that's not good enough for firefighters. For the past few months, they have been testing out a new phone made by SONIM.



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-Issues that today's devices have are that they are not ruggedized, don't have a long battery life and push-to-talk (PTT) capabilities. The PTT resembles the old Nextel phones. Carriers are starting to integrate that into their phones, so there's a migration from LMR to LTE.

-From a Fire perspective, we want something that is highly rated, waterproof, etc. From an EMS perspective, we want the phones to serve as mobile hot spots so we can bring in other equipment (e.g. EKG) and send out information on those without having to carry multiple devices.

-Up until recently, within Fire Service and Public Safety, there has never been a standard for radios. There is an effort now for the Fire Service, but no indication for Law Enforcement or EMS yet. Companies are now making an effort to work with Public Safety to develop the devices they need. There will be an evolutionary period. There will come a time when you will question if you need a \$5000 radio or could you use a less expensive everyday one.

-The SONIM device is just being tested, not promoted.

-Another issue that was brought up was during the Ebola crisis. It was realized that there were no devices that were designed to be "clean" after any contact with a biohazard. Department of Health and Center for Disease Control are working on that standard.

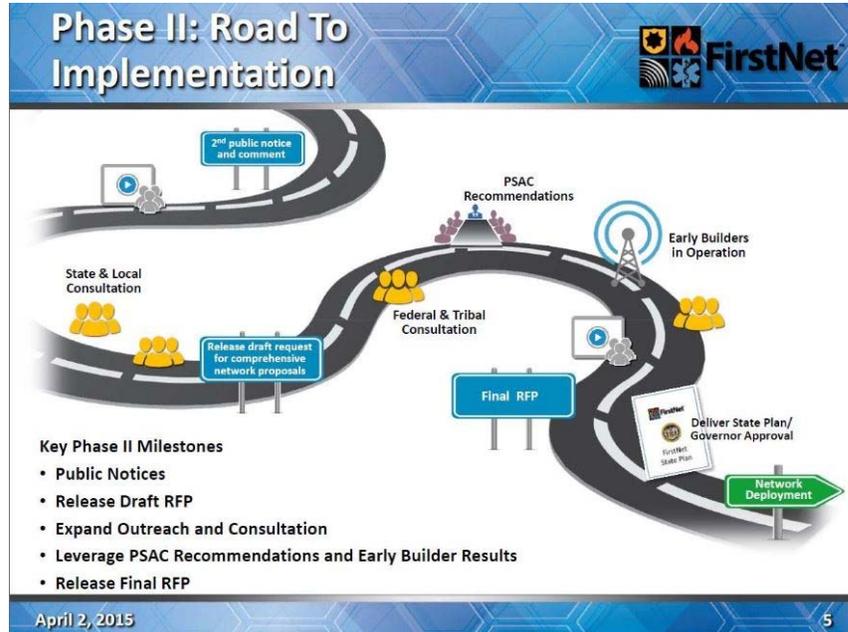
Greg H: Two good points: Even though FirstNet initially indicated that LMR would not be replaced, technology is going towards LTE. We will probably see a hybrid approach; figuring that most people initially will not have a \$5000 phone, but just a smart phone with added capabilities, but traditional Public Safety will continue carrying their radios. Ergonomics is another issue, because for example, the average fire fighter with all of their equipment will need a device that will work with what they have to deal with. This is in development.

-Peter: The key for us is to build a foundation for a network that is adaptable in the future.

-Greg H: Our goal is public safety grade.

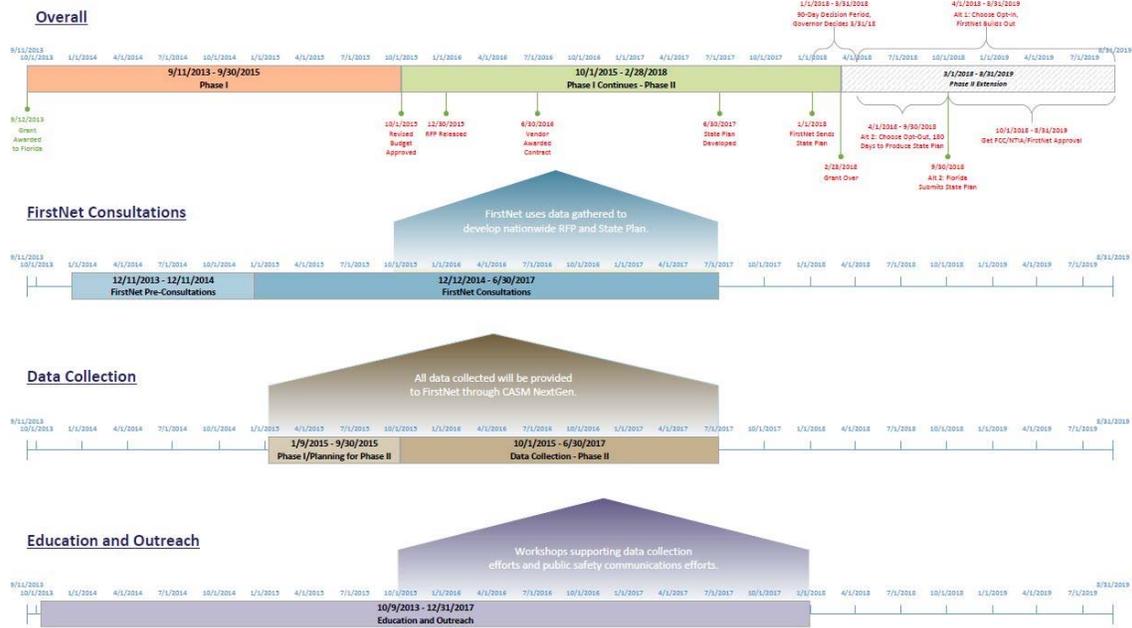
## 12. Project Plan/Budget Overview

-FirstNet's roadmap to Network deployment.



-FloridaNet has produced a timeline based on FirstNet's.

## FloridaNet Timeline





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-Donna Uzzell: From FDLE perspective, curious about Law Enforcement and the future of MDTs (Mobile Data Terminals); are they going away? Critical to build apps that are useful. What is the timeline for that?

-Josh Mindick: We're always looking at new things, but do not see anything anytime soon to replace MDT. We might have less of them.

-Greg H: Sees the hybrid approach; seeing the device as becoming your "modem". We keep using the term "phone" but on today's devices the phone is an application. It's not a traditional phone as we think. Sees instead of the device being the return on investment, the applications will be the return on investment. There will be forward thinking and the devices will start to replace the traditional items.

-Mike S: Whatever the gadget is, it has to achieve what is required by FirstNet.

-Larry: As long as the device has compatibility with the Network, then it meets the needs, as long as there is no proprietary software on there. It's an open standard to create a big market for the vendors. We are moving towards a smaller device network. They will just need to be public safety grade.

-Alex: There will be an applications store available. And there will be applications available that pertain only to certain entities, like EMS or Fire. FirstNet wants to make sure it's as flexible as it can be.

-Back to the Project Plan: we will have a more detailed project plan by the next committee meeting, but reviewing the high level view:

-Phase I continues throughout the entire grant. Phase II begins the data collection. Different aspects of the timeline: FirstNet Consultations, Data Collection and Education and Outreach.

-The grant began in September 2013 and we hit the ground running beginning with Education and Outreach and forming the Governance. Then we slowed down because we were waiting for more information to come from FirstNet. During this time, FirstNet was going through a change in leadership.

-We are submitting our Phase II budget to begin data collection, hoping that it will be effective October 1, 2015.

-We will continue our consultation with FirstNet, data collection and education and outreach. Education and outreach will be driven by FirstNet activities. We are anticipating FirstNet to release their final RFP in December 2015 and then award their vendor in June 2016. Then we're anticipating that FirstNet's partner will start coordinating with the states and the data collection. We're hoping that they produce a



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draft state plan so we can review and give feedback, and that it is not too late. We want to see the details of the financial model and the other details.

-During this timeframe, we also see a shift in leadership at a national level, so what does that mean for FirstNet?

-FloridaNet's plan during these events:

-Continue monthly phone calls with NTIA, FirstNet and FloridaNet.

-Continue to share data with FirstNet. We have already shared some of Florida Highway Patrol's CAD data.

-We want to pick a partner for data collection. We want to put together a subgroup committee (combination of Executive and Technical Committee members) to discuss and put together a request for quote. Hopefully, they will start in January 2016 and collect data for eighteen (18) months. We want to be flexible just in case FirstNet changes directions. They don't want usable assets right now but in the future they might want to develop MOUs (Memorandum of Understanding) or MOAs (Memorandum of Agreement), so we might have to hold back and prepare for that.

-Continue Education and Outreach and promoting FirstNet. We want to take the information gathered from the initial survey and reach out.

-Budget Update:

-In March, NTIA announced the availability of Phase II funding.

-Instructed the states to prepare a revised budget, budget justification, Baseline/Expenditure Plan, and narrative outlining data collection activities. (*currently working on*)

-Florida's Phase II package is due to NTIA on August 23.

-DHSMV and DEM will work together to provide package to NTIA.

-Mike S: Does the Executive Committee Board have to approve this budget?

-Larry: We can schedule an Executive Committee meeting to approve.

-Director Rhodes: This is up to the Board. We could have a webinar to discuss.

-Greg R: We could have an informational session instead that way there's no speed bump. (*Greg Rubin's motion*)

-Mike S seconded; All approved. Tentatively scheduling 8/14/16 for review session.



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### 13. Upcoming Events

Month of July	Draft RFP Working Groups
7/4/2015	Contract Vehicle Survey Due <i>(We will continue to collect this data after, but using data up until this point to produce a white paper)</i>
7/8/2015	EMS Meeting (Orlando, FL)
7/14-16/2015	CJIS Symposium (Ponte Vedra Beach, FL)
7/27/2015	Draft RFP Comments Due
7/31/2015	Data Submittal to FirstNet (Original Date)
8/14/2015	Budget Meeting (Informal)
8/14/2015	White Paper Produced
8/16-19/2015	APCO Conference (Washington, D.C.) <i>(Ryan Burchnell to speak)</i>
8/28/2015	3 <sup>rd</sup> Quarter Executive Committee Meeting (tentative) <i>(Continue meetings with two in person meetings, and two virtual meetings)</i>
9/30/2015	Data Submittal to FirstNet (Revised Date)

-Let everyone know, if there's any events in their areas that they would like FloridaNet to attend or present, to let us know. Also, if they need help putting together presentations, then please let the FloridaNet team know.

### 14. Comments/Questions

-Paul: FDOT is the leader in autonomous vehicles which relates to the communication systems. FDOT has installed a lot of fiberoptic cables in the ground and it can be used to transport a lot of data. Other DOT agency are starting to discuss this and realize that the autonomous vehicles could also be used as a device or modem. Automakers are already creating the vehicles. And DOT is starting to figure how to make this work. FirstNet needs to realize that it's not just going to be about installing towers. They are going to need a tremendous backhaul system.

-Greg H: Public safety is having similar conversations. The amount of data that an autonomous vehicle will use and the amount that could be dumped into 911 call centers is huge. They are not accustomed to data, they're used to voice. This whole process is evolutionary.

-Paul: FirstNet is starting to realize that DOT has a lot of assets.

-Director Rhodes: Who do you normally talk to in FirstNet?



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-Paul: Usually TJ Kennedy or Sue Swenson, since he's on the PSAC. There will be an American Association of State Highway Transportation Officials (AASHTO) meeting in September in Chicago, and they will bring FirstNet in to discuss their efforts. DOT officials from around the nation will gather to discuss a partnership. And most will look to Florida as a leader regarding how autonomous vehicles and that technology will work. Regarding the assets that Florida, FirstNet might not be able to make things work without assistance from DOT.

-Ryan: Regarding in car computing and where that's headed, FHP recently selected new mobile data computers for vehicles. The response was not favorable by users, and they exchanged them for heavier and bigger devices. They are not ready for the tablet size yet. But with the evolution of technology, people will migrate to the tablet. And the vehicles themselves will become useful with their in dashboard screens. So the evolution of all of these items and their usefulness will help users to adopt the system.

-Donna: Appreciates the planning and discussions that go on it these meetings. Whatever we can do to leverage what we're doing in this meeting and use it for other meetings and organizations, would be great, instead of the "silos" that are currently in place.

-Alex: Another thing to consider is 5G (G is the speed, LTE is the technology the speed goes through). Currently, 4G is out there, but not really 4G. All carriers agreed upon it and it became the norm. When 5G truly becomes available, then the system will need the backhaul that Paul Steinman was talking about.

-John DiSalvo (SAIC) – During Phase II, FloridaNet will bring in someone for data collection. When are those dates? How long will the contract be?

-Larry: We are planning on working on the RFQ when our Phase II budget is approved (hopefully in October), and then we hope to review, award and start the vendor in January 2016. We want to give the vendor as much time as possible, so approximately a year and a half.

Meeting adjourned 11:36am.