



TRANSCRIPT

FirstNet Combined Committee and Board Meeting December 7, 2017

Operator: Welcome and thank you for standing by. This call is being recorded. If you have any objections, you may disconnect at this time. Participants are in a listen only mode for the duration of today's call. I'd like to turn over to this over to your host. At any time you may begin.

Sue Swenson: Thank you. Good morning everyone. My name is Sue Swenson. I'm the chair of the FirstNet Board. I want to welcome everybody to our Q4 and our December committee and board meetings here. And I'm lucky enough to be in Reston, Virginia today with the FirstNet team. So it's great to see everybody.

Since we last met in September -- I'm sure you're all aware of this -- unfortunately, there continue to be many, many public safety emergencies across our nation. So we are continually reinforced with the importance of the work we do here in the department of a nationwide public safety broadband network. I'd prefer that we didn't have to get reminded of that, but I think it just reinforces what we already know. But, I think it's important to mention that. In fact, after a significant event, we actually heard from a public safety official who came to us and said, "FirstNet can't get here soon enough." Because they really feel that the capabilities of this network and what's going to sit on top of that network is going to provide public safety with the capability to not only save their lives, but save the lives of others and be much more effective in what they do. So, we continually get reminded of that.

So the fact that we continue on schedule -- on budget and in fact in many cases ahead of schedule -- I think is more important than ever. And I think it's a real tribute to the FirstNet team and the AT&T team and everybody else who supports those teams that we are where we are. And we couldn't do it without the great support of every organization involved in this. So, I really appreciate that kind of commitment and dedication to ensure that what we've envisioned for so many years is actually becoming a reality. And it's actually quite amazing to be in the middle of that and to be a part of it. And I'm sure a lot of you feel that way.

Today, we're going to review the FirstNet Board committee reports including an annual performance evaluation and the charter reviews, which is typical that we do every year at this time.

We'll also get updates from FirstNet's business leaders showing the progress across all the aspects of the things that they're working on - and there are many. And we'll also get an update from Mike Poth at the end of the meeting.

We'll conclude today with a closed session to review some personnel and contract matters. And we will not be returning once we adjourn. So, I wanted those of you who are in the listening public to know that once we adjourn, we will not be returning and you can plan your day accordingly. With that Karen, would you be so kind to take roll?

Karen Miller-Kuwana: Yes, Madam Chair. Sue Swenson?

Sue Swenson: Here.

Karen Miller-Kuwana: Jeff Johnson?

Jeff Johnson: Here.

Karen Miller-Kuwana: Ed Horowitz?

Ed Horowitz: Here.

Karen Miller-Kuwana: Chris Burbank? James Douglas?

James Douglas: Here.

Karen Miller-Kuwana: Kevin McGinnis?

Kevin McGinnis: Here.

Karen Miller-Kuwana: Annise Parker? Neil Cox?

Neil Cox: Here.

Karen Miller-Kuwana: Ed Reynolds?

Ed Reynolds: Here.

Karen Miller-Kuwana: Richard Stanek?

Richard Stanek: Here.

Karen Miller-Kuwana: Teri Takai?

Teri Takai: Here.

Karen Miller-Kuwana: Ron Hewitt?

Ron Hewitt: Here.

Karen Miller-Kuwana: Chris Piehota? Kathy Kraninger? And if I may note to Chair, Kathy Kraninger is on her way. And I'll announce her attendance when she arrives.

Sue Swenson: Excellent. I think she ran into some traffic this morning.

Karen Miller-Kuwana: An accident, yes.

Sue Swenson: Yes, I was watching the news and it didn't look good. I was glad I didn't have far to travel. That's great. As is our tradition, Karen, would you also read the conflict statement and we will review minutes after the Board confirmation.

Karen Miller-Kuwana: And yes, Madam Chair I should also note, we do have a quorum for those aboard in all committees.

Sue Swenson: Thank you.

Karen Miller-Kuwana: In advance of the December 2017 committee and board meeting, the management team has provided each of the members with an agenda outlining the items that will be discussed and decided during today's meeting. The members were also provided with the conflicts of interest assessment, which was produced jointly by the Commerce Department Office of General Counsel and FirstNet's Office of Chief Counsel. Providing these documents in advance to the board members allows them to identify potential conflicts of interest and to recuse themselves from participation if required. We will, prior to this meeting, remind all members of their obligations relating to conflicts of interest and ask them to identify whether any recusals from deliberations or voting are necessary. In consideration of the meeting today, each member should consider his or her obligations with respect to the appropriate committee, and for some of you, that might mean more than one. Just to be clear we are only doing one conflicts notification for this combined committee and board meeting. With that said, any members who believe that they must now recuse themselves, please so state for the record. Now Chair, you may now proceed.

Sue Swenson: Thank you very much. I'm really pleased that the first order of business today is to welcome David Redl who's joined us for the meeting today. And for those of you who are not aware, he's the recently confirmed leader of NTIA. And again, if you don't know that acronym, it's the National Telecommunications and Information Administration.

I think you all know that this executive branch agency is responsible for advising the President on Telecom and information policy. And David -- for those of you who don't know his background --has vast experience in telecommunications and knows a lot about FirstNet.

Probably more than you would ever want to admit to. And - but he knows that because of his work on the House and Energy Commerce Committee where he was chief counsel and working with Chairman Walden.

I actually remember vividly, my first visit with David. It was a good one. I'm glad you told me to characterize that and when I became the Chair at FirstNet. And I really want to say thanks to David for NTIA's guidance and tutorage. You know, during the last couple of years, it's been extremely helpful to me and I know to the FirstNet staff. I really look forward to continuing that relationship with them and with David in his new role. And frankly, can't think of anyone more qualified or deserving to be in this role.

So David thanks for joining us today. I know it's early in your tenure, and I know you're drinking from a firehose, but I wanted to give you the opportunity just to make any comments you'd like to at this time for the FirstNet team and the listening audience.

David Redl: Sure, thanks Sue. Thanks for your kind words and for the opportunity to speak with everybody today. As Sue mentioned, I just previously was Chief Counsel at the U.S. House Committee on Energy and Commerce, where I was deeply involved with crafting the legislation that created FirstNet, and I remain committed to its mission. I really believe in its mission to provide state-of-the-art technology to the first responders.

FirstNet's made significant strides this year under all of your leadership, and I'm grateful for all the dedication and focus you all have shown. In my brief remarks this morning, I'd like to take a few minutes to talk about the things that NTIA has been doing to help advance that mission as well. NTIA has advanced several efforts consistent with its requirements under the Act to support deployment of broadband for first responders. I'd be remiss if I didn't take a moment to thank Marsha MacBride and her team in the Office of Public Safety Communications here for their hard work. As Sue mentioned, I'm two weeks on the new job and they've been doing a lot of heavy lifting in the meantime. So, I really appreciate all the hard work they've been doing.

In August of this year, NTIA issued a final rule regarding its statutory required review of fees, and we're working with FirstNet staff to review the first fee proposal submitted pursuant to this rule. As you know, FirstNet must by law submit the funding level as determined by NTIA for each state and territory along with FirstNet's state plan to provide broadband service for first responders.

On September 25, 2017, NTIA submitted to FirstNet its first funding level determinations for each state and territory allowing FirstNet to submit its state plan.

And just last week, NTIA released its NOFO, Notice of Funding Opportunities, providing guidance to states that may wish to opt-out of FirstNet's State Plan and operate their own radio access networks.

NTIA's notice provides detail of how a state -- if it's alternative plan is approved by the FCC -- may apply to receive the state's - ah, excuse me - the laws required authority to NTIA to enter into a Spectrum Management lease agreement from FirstNet and optional funding to assist in RAN Construction.

NTIA can grant those applications if the state demonstrates five key statutory capabilities focusing on interoperability, financial stability, technical compliance and comparable security coverage, quality service, and timeliness.

Taken together, these demonstrations will establish whether a state is capable of providing public safety with high quality interoperable and reliable broadband service over time, to (unintelligible) all the collective hard work we've done.

As I continue to work with all of you, I hope to learn each of your individual perspectives on how to ensure that FirstNet achieves its mission, and to have NTIA and FirstNet work seamlessly to make sure we can continue moving the ball forward. And giving our public safety first responders the tools they need. Again, thanks for this chance to begin our dialogue as I lead NTIA. It's not the first conversation I've had with many of you and I certainly hope it won't be the last. Thanks Sue.

Sue Swenson: Thank you David, and I can assure you, it won't be the last. I'm hoping that our conversations and dialogue is pretty much ongoing and - because I'm sure we'll have - well we've had lots of issues to deal with, I'm sure we're not over the hump in terms of things that we have to face going forward. So, I look forward to working with you and continuing to work with your staff there.

We're now going to give each committee chair the opportunity to provide a brief report on their accomplishments for the year and a review of their respective charters. I'll start with the Governance Committee, which I'm the chair. And while we didn't pass any specific resolutions, I'd like to note that, one - the Board approved the vote to finalize the award of the NPSBN contract in March - a momentous occasion. Number two, the Board approved an extension of Chair Harlin McEwen as the PSAC Chair, and subsequently, thanked the Chief for his service and awarded him the Chief Harlin McEwen Public Safety Broadband Communication award. So that was really a board activity of which the Governance Committee often oversees.

The committee was also involved in several activities - key activities during the year. We've been involved in working with Mike and the team on the FY18 strategy organization structure and performance focus areas.

We're also -- as our charter requires -- spending time on succession planning for key roles at FirstNet, which is critically important as FirstNet's going to be around for a number of years. And want to make sure we have the right leadership in place and the people being developed in the organization who can take on those senior roles going forward. We also were involved in and continue to be involved in the employee engagement survey results and action plans resulting

from those results involved in marketing and communication strategies. And last but not least but critically important, new board member candidate interviews and recommendations to NTIA. We've reviewed the charter and we don't propose any changes at this time. However, in light of the changes that will be taking place with FirstNet in terms of evolution of the organization in light of where we are because we're moving from in a sense project management to basically operational, the board committees need to modify charters to coincide with what the focus of FirstNet is. So, I would image that in Q1 or Q2, we'll probably be making some changes at least. I'll let the other chairs speak on their own behalf, but for the Governance Committee, we'll probably make some changes at that time.

In terms of board member reappointments and new appointments, the committee reviewed submissions of interest that were submitted earlier this year, and along with NTIA, we determined appropriate candidates for subsequent interviews. We conducted those extensive interviews and we made our recommendation to NTIA. And now that Mr. Redl is on board, he is giving us - even though he's drinking from a firehose, he's assured us that he's given us a very high priority since the year is coming to an end and we really need to get some members reappointed and appointed. He's going to give this high priority to get closure for Secretary Ross before the end of the year, so more to come on that.

Lastly for me is the topic of 2018 board dates. We're looking at those and we will be finalizing those at the end of this year, and we will be publishing them on the web site as soon as we confirm. We're looking also at locations as well, because we think that's important in the New Year to think about location. So it's nice to be here in Reston and we also think it's nice to get out in the organization and actually have the opportunity to interact with public safety - (unintelligible), but we'll take care of that.

So with that, that concludes my report for this morning for the Governance Committee. And before we turn it over to Governor Douglas, what I'd like to do is ask the Board to take a look at the minutes that were included in your material. And it represents minutes from the September 13 and 14 meeting in September when we were in Boulder.

So, if you have those in your material, welcome any comments, additions or changes. And if not, I can entertain a motion to approve.

Kevin McGinnis: Move approved.

Sue Swenson: Kevin moved to approve. Any...

Unidentified person: Second.

Sue Swenson: Second. Any further comments? All those in favor, please signify by saying aye.

Group: Aye.

Sue Swenson: Those opposed say aye. Any abstentions? Thank you.

Annise Parker: Madam Chair?

Sue Swenson: Pardon me?

Annise Parker: Madam Chair, this is Annise Parker. I just wanted for the record to show that I was actually attending the meeting. I missed the roll call.

Sue Swenson: Okay, great.

Karen Miller-Kuwana: And I also wanted you to know that Kathy Kraninger was able to arrive prior to Mr. Redl's remarks. And said she also was here for the (unintelligible).

Sue Swenson: Great.

Karen Miller-Kuwana: So we'll reflect that on the record. Thank you Mayor Parker. Glad you could join us today.

Sue Swenson: So with that, Karen, I'm sure you'll make those minutes available as we always do.

Karen Miller-Kuwana: Yes, they'll be posted on the website today.

Sue Swenson: Excellent. Governor Douglas, you're up to tell us about what you've been up to on the Finance Committee.

Governor Douglas: Well, since you're a member ex-officio, you're quite familiar with it. For the benefit of the Board and our audience, I'm happy to report on the committee's activities during the past calendar year.

Obviously, one of our major responsibilities is to work with our CFO and her team to prepare the annual operating budget for the authority. And we did that and we proudly announced last quarter that we were closing a budget 13% less than the previous year - not always the trend in a governmental entity, so we're very proud of that. And the Board has of course approved it.

We worked with our external auditors. We obtained a clean audit opinion of the fiscal year 2016 financial statement audit. Some of us participated in the entrance conference for the auditors and subsequent routine fraud interviews as well.

We have been focused on a couple of important efforts during this year. One, a creation of an investment review board. As revenues come in from the deployment of the network, we want to make sure that those resources are profitability shepherded and reinvested back into the network as the law requires. So we have a process in place for that. Kim has developed an enterprise-wide

full cost accounting methodology. We call it FRED. Everything in government has an acronym. It's the FirstNet Repository for Enterprise-wide Decision-making. But, it's another step forward for FirstNet as we become more sophisticated from an operational standpoint and ensure good stewardship of the resources that are assigned to us.

Kim has been working on the financial management regulations. They're quite voluminous and we appreciate the expertise that she brings to the task. She's been working also on some internal control reviews to make sure that we are as responsive as we possibly can be.

On the charter, we don't have any recommendations today, but similar to your report on the Governance Committee, we're going to take a more serious look at the document in the coming quarter. We may have a recommendation in the next - by the next meeting or thereafter. Because as you indicated, Madam Chair, we're in a new phase of our operation and want to make sure that we modernize our operating documents as appropriate. So, nothing to propose to the Board today, but we may have something or not in the future. So, a busy year for the committee - we're delighted about the leadership we have in our CFO office. We feel really good about Kim's team and her leadership there. So, we'll continue to fill our responsibilities during the coming year.

Sue Swenson: Kim, I believe you're up.

Kim Farington: Thank you Mr. Chairman. Good morning everyone. This morning what I want to do is begin with a cumulative review of financial results for fiscal year '17 before diving into where we stand so far for fiscal year '18.

And what you're seeing right now is a graph of a representation of our cumulative financial results for this fiscal '17. You'll see from the bar in blue on the far right that we ended the fiscal year utilizing \$72.5 million of our total obligation of this for the fiscal year. That total obligation's budget -- as approved by the Board -- was originally \$84.6 million, which represents about an 86% utilization of the original budget for fiscal year '17.

However, you might remember that we actually - we baselined in April of last year, and our obligations budget after we baselined was \$78.1 million. So that's 72.5 million dollar obligation utilization - actually represents about 93% of our rebase line budget.

On the expense side, we actually utilized \$87.6 million for fiscal year '17. This actually represents about 74% of the original board approved budget of \$118.4 million. After rebase lining, our expense budget was \$90 million. So that's a little over 87.5 million dollar expense. Actually, equates to about 97% utilization of the rebased line budget for fiscal year '17.

One things to know with regards to fiscal year '17, relates to the Spectrum relocation grants that we're awarded. As of the end of FY17, nearly 50% of the grant program award funds have been drawn on. So that means about 50% will continue or carry over to fiscal year '18 for a draw down, which takes us to the next slide where I'll talk about fiscal year '18 to date.

As you can see by this graph, as of November 30, we have utilized about 10.4 million of our total obligations budget of 73.5 million, which as Governor Douglas mentioned, this is 13% less than last year's budget. We're very proud of that.

Of the 10.4 million, we actually forecasted that we utilize about 15.2 million of our obligations by just through the end of November. So, our utilization -- compared to forecast -- was 68%. If you look at it compared to the total overall budget of 73.5 million, we utilized about 14% of our total obligation's budget. and so we're very within range of where we expected to be through the end of November for obligations.

And the same holds true for our FYE team expenses. Our expenses to date, as of November 30, were \$13.9 million of our total expense budget of 102 million and we expected to utilize about 17.8 million in expenses through the end of November.

So, we actually - year to date of the 17.8 million forecasted, we utilized about 78% of our forecasted budget with the total budget utilization being about 14%, which also puts us within our comfortable range. So we are doing very well as we enter into FY18.

And you might wonder what we are doing with our funds this fiscal year? And this milestone chart actually reflects, on Slide 6, what we plan to do this fiscal year. I will just highlight a few of these because James Mitchell during his NPO update and Mike Poth during his CEO update will speak in a little more detail on many of these milestones. But I would like to highlight that in the network operations work stream, we plan on focusing all year on the RAN network implementation and evolution, the lab testing and also the management of the state RAN deployment.

If we look at the public base and work stream in the middle, there are a couple items I'd like to highlight that we're looking forward to this year. The first thing that starts the end of Q1, the Governor's decision of the state opt in and opt out. And we're also looking forward to the user and developer innovation forum that we anticipate occurring in Q2.

Moving to corporate services -- as Governor Douglas alluded to -- we will be focusing on the implementation of FRED that cost accounting system where FirstNet repositories for enterprise-wide decision making.

Altogether, we feel that with this budget and with the high level milestones, we are primed and ready for implementation of the network this fiscal year. And I would just like to note that in case there is a shutdown, FirstNet will continue to work on Friday -- or whatever day -- just because of our appropriation situation. So, we will still be here every day working diligently to execute the FirstNet mission. And if there are no questions, I will turn it over to Mr. Jeff Johnson, the Chairman of the Consultation and Outreach Committee.

Sue Swenson: Just another question Kim.

Kim Farington: Yes?

Sue Swenson: The actual expenses on the expenses are accounted for in an accrual method, correct?

Kim Farington: That is correct.

Sue Swenson: Okay, I just wanted to make sure.

Kim Farington: Okay.

Sue Swenson: Okay, thank you.

Mike Poth: I think one of the things is excluding to mention is that the Spectrum reload is on track. Most of the agencies have been and states have been outstanding. They've all been outstanding, but we're actually done with all but two states and they're aggressively on schedule to have the Band 14 Spectrum cleared long before (unintelligible) needs to start utilizing that same space. So we're looking and we're optimistic that the funds that we've been carrying for two or three years over and over will actually be ...

Sue Swenson: Coming to an end.

Mike Poth: coming to an end and there's actually - the State of Illinois has sharpened their pencil even more. So there may be some credits coming back to us, which is great.

Sue Swenson: You know, just give credit I think to the people working on the Spectrum relocation, I know they're diligent to that. But I mean not in part, but (unintelligible)

Mike Poth: Right.

Sue Swenson: ...when they work on the project. I guess it's up (unintelligible) to Chairman Johnson. If there are no further questions, I think you're up on Consultation and Outreach.

Jeff Johnson: Thank you Madam Chair and thank you to Chairman Governor Douglas as well. The Consultation and Outreach Committee's responsibility to review and approve and oversee the recommendations related to FirstNet's outreach are eligible state and territorial federal rural and tribal users of the network. And just reflecting on what we did last year, I think primarily I'd like to highlight that the Board resolved to grant approval to finalize the NPSBN Award, and then also, the board resolutions relating to Chief Harlin McEwen.

As Chairwoman Swenson mentioned, Harlin's contribution surpassed resolution ADA 83, 84 and 85 - all related to Harlin. But I think - and we can spend all day talking about Harlin's contribution, but I believe that his greatest contribution was the preparation and development of the Public Safety Advisory Committee's Executive Committee.

Especially pertaining to Tom Sorley. Tom Sorley, as you know, works in Houston. He, like all people in Houston, were affected professionally and personally by the storms that passed through Texas. Tom not only did that job with tremendous acclaim, but he kept the PSAC moving forward. And he has proven to be an insightful and dedicated leader. So, thanks to Harlin for making sure Tom was ready. The ultimate compliment to a leader is to leave someone as good as or better than you were, and thanks to Tom for what he's been doing.

We also received briefings and provided advice and guidance on the state plans including the content of the state plans. And the PSAC specifically related to early building lessons, tribal engagement and then the user profiles, and then essentially preparing public safety agencies for the adoption of FirstNet service. Also contributed input on the RFP process and timelines, network policies and then tribal consultation. And Kevin McGinnis, I'd be remiss if I didn't thank you for your particular dedication to the tribal community and all the air miles you put on doing the best job we could in trying to honor the tribal sovereignty and integrate them into (unintelligible).

Also, at the committee level, we worked on stakeholder events, participated in the AT&T partnership announcement event, and then many state planning meetings and announcements. Then also, we participated in the PSAC executive (unintelligible) which happened regularly. And we've done more than 40 outreach engagements, well beyond the consultation in 2017, which included the National Public Safety Association Boards - staying plugged in with them, and speaking roles at various conferences. Also presents the committee's charters. The Consultation and Outreach Committee reviewed and assessed the adequacy of the committee charter.

And Madam Chair, I think what we'll do there is between now and the next meeting, I think the committee of the Consultation and Outreach Committee will work on number one, is this committee appropriately titled as we go forward. And number two, I think we would like to address -- at a minimum -- some tribal considerations. And then also in working with the Technology Committee, can conversation and maybe orientation towards stimulating the secondary ecosystem around FirstNet, and lots of other things.

I think then (unintelligible) would then effect in doing what we've been doing, but we are now hitting a new phase. And a phase with the states and a new phase with our partner and a new phase with public safety. So we'll invest some time Madam Chair. With your consideration, we will be back by our next meeting with a robust recommendation here and we'll use the interim to achieve that.

Sue Swenson: Thanks.

Jeff Johnson: So, Madam Chair, with that it is my pleasure to turn it over to Rich Reed for the Consultation and Outreach update at the staff level. Thank you.

Rich Reed: Thanks, appreciate it Chairman Johnson. Chairwoman Swenson, appreciate the time.

I'll provide a brief update of where we stand with the states prior to the 28th of December deadline for state - for Governor's decision. And I'll talk about how we're going to evolve the CCO organization as we move into an operational phase.

Sue Swenson: Mm-hm.

Rich Reed: So we're on Slide 8. As you can see by the green on the map, we're very, very honored to see this strong response by the Governors (unintelligible) to allow FirstNet to come in and build the radio access network in their state. You know that two-thirds of the country put public safety first. They're allowing us to come in and modernize communications in their state and ensure that public safety has the most up-to-date mobile communications as possible.

Sue Swenson: Mm-hm.

Rich Reed: Since our last meeting, we spent a lot of time making sure the states who have not made the decision have the information they need to make the opt-in/opt-out decision. I want to spend a few moments just thanking the Consultative and Outreach staff as well as the Government Affairs staff for all the hard work they've done making sure that the states, their (unintelligible), the Governor's Committees as well as the Governor's staff have the information they need in which to make a good informed decision around the value proposition of FirstNet.

Sue Swenson: Mm-hm.

Rich Reed: It's not been easy. It's a tremendous amount of work and I'm very, very thankful for the work of the staff. As you know, the staff at the Governor's (unintelligible) are going to stay tonight. It's been a great joint working environment we've had with the states. And that's (unintelligible). So, I'm going to spend a few moments just going through where we stand in terms of our online perspective and the slides and the sites that we have available to both the public as well as secured sites that are available to those who have access.

FirstNet.gov, as you know, it's maintained by the First Responder Network Authority. It's where we put up information about board events, the information that is directly applicable to the First Responder Network Authority. That's where we put our blogs. That's where we put our PSAC information - all of the relevant First Responder Network Authority data.

FirstNet.com is available to the public. It's where we put information around products, services, devices - all of the public information that would be - you would look for in terms of going out and selecting a commercial provider. And that's currently available and online and hosted by AT&T for us.

They have developer portals also online. It's where information is about the application development. It's all the information you need as an application developer. It's where you register for the ability to go out and just become an application developer.

On the secured side, the publicsafety.com page is a controlled access location. And that's where Public Safety will be able to come in if you're a registered user - a user of FirstNet. You'll get access to network reporting information. That's for the internet command functionality. That's where internet commanders will be able to manage users and functions of their user community. The portal obviously as everybody knows is where we've shared information with the Governors and the Governor's staff. And it's where we put the value proposition of FirstNet as essentially our proposal in each state. That's still available.

The Application Store is where we're going to have the consolidated list of applications that are currently available to users of the network. That's where we will have the information that's around the certified and approved applications for Public Safety. And it will be available to those who are registered to take advantage of it - the users of the network. And then the app developer console is where the true developer of the community will go in and download the tool that it takes to become a provider of applications. And it will also outline the process for becoming, you know a certified application. It provides the process for that certification.

Sue Swenson: Rich let me just ask you one question. I know that firstnet.gov has been around for a while and probably gets quite a bit of usage. I also forget about firstnet.com. Is that - do we have any sense of usage of that and you know, do we need to do more to make people aware of it?

Rich Reed: I think we have the reporting...

Sue Swenson: Okay.

Rich Reed: ...statistics in terms of number of hits. We have that information available to us. Frankly, the majority of the interaction has been through the state plan portal...

Sue Swenson: Right.

Rich Reed: ...up to this point.

Sue Swenson: Right.

Rich Reed: But, I think as adoption, you know happens and as we start really seeing more information through that .com address that the people will be driving towards that.

Sue Swenson: Okay.

Rich Reed: Frankly, through this process, we can really focus on Governor's decision. And that's where...

Sue Swenson: Makes sense.

Rich Reed: ...the tremendous amount of energy's been.

Sue Swenson: Right.

Rich Reed: Okay, next slide.

Rich Reed: Jeff Bratcher and I, the CTO, had the opportunity to go participate in an international meeting with Spain, Madrid last week. As you know, first it's been a real leader in terms of the international community around public safety communications and the use of mobile data communications. We've had a lot of interactions with the international community. And we had a webinar that we hosted in November with a lot of participation from across the world. We participated in, as I mentioned that the PSC, the Public Safety Communications Europe Conference -it was well attended. We had folks from UK and Belgium, France and all the way to Germany, Spain, Holland in participation. There were 80 registered. We had 50 people show up. It's clear that they're very focused on where we are and what we're doing in terms of execution of this network. I think we provide a lot of leadership and guidance to the world in terms of our success. And they look to us to help them you know frankly not step on any (unintelligible) and improve their processes.

Sue Swenson: And isn't that advantageous to us as well in terms of scale?

Rich Reed: Absolutely. So it does allow us to bring a large economy of scale...

Sue Swenson: Right.

Rich Reed: ...and a lot of weight to the standards making body as well as to device in a software (unintelligible) system.

Sue Swenson: Right.

Rich Reed: So, it is an outstanding organization. We're happy to be participatory. The next meeting is scheduled to happen in May of 2018 in Brussels.

Sue Swenson: Mm-hm.

Rich Reed: And I'm quite sure that we'll be asked to participate and we'll have a lot of good leadership opportunities there.

Sue Swenson: Okay, good.

Rich Reed: All right, Kevin.

Sue Swenson: Yes, go ahead Kevin.

Kevin McGinnis: I had the opportunity to present at an international roundtable of community at our meeting in Las Vegas a couple of months ago. And we had 150 people from around the country. A lot of from around the world - largely UK, Australia and Canada, the U.S. and there were a few others. And the discussion was really fascinating. In terms of the level or lack thereof of knowledge of their own broadband developments in those countries and clearly even in the EMS sphere, we're ahead of the score.

Sue Swenson: Interesting.

Unidentified Man: I think that's right, it's interesting to see where each country is in terms of their (unintelligible) assets they're bringing to the table - what levels for what they had. They look at what we're bringing - you know what we were provided through our legislation - what Congress gave us in terms of Spectrum cash and frankly authority for a nationwide build. Just the European, you know, the European theatre alone is really interesting based on the number of borders and - the interest involved just on that small piece of geography (unintelligible). It's unique, but it's not unlike the Governor's decision, frankly.

Sue Swenson: Mm-hm.

Unidentified Man: You know, the Governors have a lot of authority, but they don't have a consistent spectrum and they don't have the same issues in terms of volunteer adoption that we have on our approach.

Sue Swenson: That's right.

Rich Reed: All right. As we transition into '18, we're going to continue to execute public safety advocacy through Outreach and Communication. We still have to get the information out to Public Safety. You know, the Outreach and Education function is still going to be critical. Not just for the success of FirstNet, but the success of AT&T and their adoption targets. We're going to continue to work on governance and policy coordination. It is not - it is not as simple as ignoring how governance works. We're going to continue to engage in how we're going to interact across -- not only internally at FirstNet -- but across the nation.

We're going to grow this response coordination function. As we saw in Harvey, as we saw in a lot of the disasters that have happened, mobile data communication and the response thereof is critically important to our success. We have been very, very pleased with what we see from AT&T, and their response that they've done across the nation. But we're going to focus on what FirstNet's going to do associated with response coordination.

Sue Swenson: So, on that point, Rich, Admiral Hewitt's on the phone and you know as a board member and being part of DHS, I would assume that when you say FirstNet, I mean, DHS is likely to be part of that coordination.

Rich Reed: Well it's the entire, you know, federal response.

Sue Swenson: Exactly.

Rich Reed: And need to be (unintelligible) to a person, correct?

Sue Swenson: Yes, I just wanted to make a point of that, because I know that he and you and others have been talking about how to do that even more effectively than that's done today.

Rich Reed: Thanks Sue and we've engaged with OEC and we're talking to FEMA and other organizations around how we best fit into that federal response as well as working with our counterparts at NTIA.

Sue Swenson: Right.

Rich Reed: There's a huge coordination component.

Sue Swenson: Right.

Rich Reed: And we recognize that to be successful, we're going to have to fit into that.

Sue Swenson: So Admiral Hewitt I appreciate your work on that. You know, to move that forward. And I think Neil Cox is also getting pretty involved in that as well. So I appreciate you in that in kind of pushing that forward.

Rich Reed: From a user product - I don't know, Admiral Hewitt, do you want to comment?

Admiral Hewitt: Oh no, I was just going to say, yes thank you. And we've been working very closely and should have more of the plan that we can layout at a future date. Thank you.

Sue Swenson: Great.

Rich Reed: You know we're looking at integration of communications unit leader...

Sue Swenson: Uh-huh.

Rich Reed: ...information around local data communication. There's a lot of touch points that are very important forwarding or received in DHS. From a user product and input standpoint, we think it's very important that the CT organization continues to focus on public safety in making sure that their input and their needs are properly documented, analyzed and inserted into the processes that we're going to have with our provider, AT&T. It's one of the challenges you put forth a year and a half ago.

Sue Swenson: Right.

Rich Reed: And we're continually focused on that. And I'll go into that in depth over the next couple of slides.

Sue Swenson: Okay.

Rich Reed: And then obviously, the (unintelligible). We can't assume that what we're doing is going to be you know in perfect meeting of our expectations for politics. So were going to have to listen to that feedback that they're going to provide. We're going to have to evolve what we're doing based on that feedback. So, we're not going to make an assumption that we are infallible. We're going to listen to feedback. We're going to evolve our operations. We're going to you know respond to that feedback.

Sue Swenson: Okay.

Rich Reed: And then...

Unidentified Woman: I'll leave.

Rich Reed: No, that's all right. You can stay here.

Unidentified Woman: Okay.

Rich Reed: As you can see, the depth and breadth of public safety is immense now. Kevin already mentioned that this particular graphic does not point out or represent EMS directly.

Sue Swenson: Mm-hm.

Rich Reed: I didn't have a graphic that allowed us to map EMS locations, but this depicting the police and fire stations and federal lands and federally recognized jobs across the nation. As you can see, the depth and breadth of the interactions that we're going to have to have to be successful is very alarming. CT - they're going to have to pivot. We're going to have to make a change from engaging states and territories to really getting down to 50,000 plus agencies, 567 federally recognized jobs - the depth and breadth within our actions are going to increase dramatically. It's going to add complexity to how we interact. Hence an increase the volume of that interaction. It's a lot of - a lot of individual and interaction to ramp it to be successful. So it's very much a change in how we're looking at the public safety user community. We'll continue the Outreach - we'll continue to engage at all levels of government.

Sue Swenson: Mm-hm.

Rich Reed: We will continue to develop and foster our relationships and we will continue to implement the work that we've put forth in tribes. And I'll get into the tribal -Tribal Consultation policy in a little bit.

Karen Miller-Kuwana If I could jump in and say, this is Slide 13.

Rich Reed: Slide 13.

Karen Miller-Kuwana Thank you.

Rich Reed: So, the feedback we collect from all of those groups is going to be important to engaging public safety and now provide with our partner AT&T. To improve existing products - the idea of improving products is going to be critical to our success. We're going to do it in three different ways. We're going to influence the existing products and solutions through continuous development differentiation. If you look at the product that we currently have available in the State Plan portal, we went through a process where we released that information to the states. We went out and had a dialogue with them about what they liked, what they didn't like. And then we came back and we improved that product...

Sue Swenson: Mm-hm.

Rich Reed: ...based on their feedback. We're going to continue to do that. That's when you engage public safety moving forward. We're also going to look and become subject matter experts on what they're communication needs are. And we're going to ensure that we plug ourselves into the AT&T product roadmaps to ensure that the roadmaps that they're executing are informed by that public safety need. And then, lastly, we have to make sure that we're staying ahead of Public Safety's current designers and making sure that the future looking roadmaps and the things that are outside -- even our curricular divider -- are informed by Public Safety operational needs.

Sue Swenson: Mm-hm.

Rich Reed: So, often times we, you know - product amount that you don't even know you need. And that's where we want to be. We want to be ahead of the actual specified, you know, public safety where we can, but through the lens of Public Safety.

Sue Swenson: Mm-hm.

Rich Reed: Any questions?

Sue Swenson: No, just a comment on that. I've said it a couple of times. I think Chief Johnson and others who requested this in the organization really feel like public safety has become really mainstream. So, I think you know making sure - I think we're going to have people beating down our door to talk about what they have in mind. Because people are becoming I think through the forums and - I mean it really has become much more visible to people or I think a lot of companies out there are showing a significant interest in supporting public safety. So, I mean that's just my view based on a few interactions that I've had.

Rich Reed: Absolutely.

Unidentified Man: Yes Rich. I think you may have - make a great point here and its one that we need to remember. I'm not quite sure how we manage it, but I'm sure that you know between Mike and the team and AT&T's team is being looked at, but just to bear in mind that the AT&T sales force on behalf of FirstNet and they're interaction - they're direct interactions with public safety agencies tend to be a vendor, buyer relationship.

Sue Swenson: Right.

Unidentified Man: And there is a need for something that is between that which is what you're describing which is somebody who is a Public Safety - experienced Public Safety you know leader - whatever. Also talking about public safety and saying, "What do you need? Where do you think you're going? Oh, did you know there's this. Would you like to try that?" And then being able to also go back to the AT&T sales site and say be sensitive to these issues when you go there. So, I think that's where...

Kevin McGinnis: Our goal is also to work across the FirstNet organization to make sure that the information that in the subject matter expertise that our team has, not only influence the behaviors of AT&T, but also the CT of that and the technical staff we have for FirstNet.

Sue Swenson: Right.

Kevin McGinnis: We also want to deal with the leverage for PSAC and other groups to make sure that - to better focus through to provide us the feedback and input they would like to provide. And it gets put in the ones of the right folks.

Sue Swenson: I would just say, Kevin, that I think this is probably one of the most significant things we'll be spending our time on. I think it's been kind of, you know, obviously focusing on the contract and the locked in and all of that. And obviously that is important. So, I think this is where the opportunity for us to be public safety advocates really plays out. So, obviously while we manage the contract -- which is critically important -- I think this is really the future of FirstNet.

Kevin McGinnis: Yes.

Sue Swenson: I really think we can play a much bigger role here and, as you know, we've been having lots of discussions about how to do that for the very reasons you stated. I think that is our goal going forward. I mean, it's a significant role.

Kathy Kraninger: And Madam Chair, I feel I want to associate myself with your comments and Kevin's comments (unintelligible) I think this a very core, core issue going forward.

Kevin McGinnis: Yes.

Sue Swenson: Yes.

Kathy Kraninger: And definitely want to make sure we're keeping that interest in mind, that we work with AT&T absolutely as we manage the contract appropriately, that that relationship and that advocacy and that understanding is...

Sue Swenson: Yes, no, no. I appreciate you reinforcing. We feel very strongly about it.

Karen Miller-Kuwana: Rich before you move on, I think if (unintelligible) on the bridge, if you're not speaking, if you could mute. We're hearing a little bit of background.

Unidentified Caller: Really?

Karen Miller-Kuwana: Trying to be quite here, but if you could help by putting it on mute?

Unidentified Man: We're not allowed to breathe.

Karen Miller-Kuwana: Hold your breath. It's just another hour. No. On Slide 14.

Rich Reed: I wanted to talk just a little bit about the Official Tribal Consultation Policy. On October 18, we released our official Tribal Consultation Policy that recognizes and respects tribal sovereignty as a nation to nation relationship between federally recognized tribes in the U.S. Government. As you all know that the legislation - we had really demanded that we go to fall with states and tribes through a single point of contact identified by the Governor. And we've managed through that with a lot of dedication and effort from our staff. But, we recognized - we heard it through the tribal working groups that need for this official consultation quality. And we finally got that done and approved and posted on our website on October 18. So, I'm very pleased that we have finally achieved, you know, what the tribes have expected of us over the last several years. As far as policy, tribes must submit a written delegation of authority to FirstNet, which formally identifies an individual responsible for coordinating with us. Much like its ...

Sue Swenson: Mm-hm.

Rich Reed: ...within the tribe. The tribal leaders will now tell us how to best engage with them. But we will have an official policy that we're going to operate under. And then we're going to get you tribes in a more direct fashion - respectful of sovereignty.

Sue Swenson: So we don't have that person today. They're debating that right now. Is that what you're saying?

Rich Reed: That's correct. We made the policy available.

Sue Swenson: Okay.

Rich Reed: And I'm not sure they're debating as if the new policy's available and if they want to engage with us, there's a mechanism in ways you can do it.

Sue Swenson: Okay, great.

Rich Reed: But it's founded on four principles of tribal engagement, collaboration, communication, and inclusion. And it's really important that the tribes understand that we have done our best to engage with them through the legislative processes that was outlined and we're happy to engage with them in a more direct fashion - post Governor's decision.

Sue Swenson: Mm-hm.

Rich Reed: And you know we are absolutely pleased with the support of Kevin and the tribal working groups through Tom Sorley. Kevin, would you like to say a few words?

Kevin McGinnis: Well, having reached this point is a real breath of fresh air.

Sue Swenson: Mm-hm.

Kevin McGinnis: To be honest, we've been under - in the last four years, we've been under a couple pressures. One was simply staffing and the ability to get - cut me into little pieces and get me around (unintelligible) the map to talk to people that really have issues and concerns and the wants and needs. And then we fixed that to the degree we have with three staff members are out and about and doing a really nice job of making those touchpoints effective. But this will take us the rest of the way in through freeing our hands to really get down to the nitty gritty of how the system network interacts with those tribal efforts. So, I think in a couple months from now, we're going to need a much different quest.

Sue Swenson: A big step forward.

Kevin McGinnis: That's a great job, great job by staff.

Rich Reed: They're (unintelligible). And I want to specifically thank Brian Howard who leads the tribal working group. He's doing a great job in making the tribal working group focus and provides us great product.

Sue Swenson: Mm-hm.

Rich Reed: (Unintelligible) Tom Sorely for supporting them - Kevin for all your support. It's been a great team effort. So thank you all. With that Mr. Vice Chair, I'll turn it back.

Jeff Johnson: Thank you. Excellent report Rich, and more importantly, excellent outcome for this year. I love keeping on schedule, at a minimum, ahead of time is better. And I loved the

financial reports. Also, I'd like to just offer my personal welcome to David Redl. Congratulations on your appointment. It is indeed going to be a pleasure to work with you. With that, Madam Chair, I will turn it over to Neil Cox for the Technology Committee update and annual performance evals.

Sue Swenson: Actually, I think we're going to turn it over to Tom for a quick update on the PSAC before we turn it over to Neil.

Jeff Johnson: Yes you're right, I missed that. Thank you.

Sue Swenson: That's okay. That's all right. Tom?

Tom Sorley: Yes, it's kind of early over there on the West Coast. He followed up his kind comments earlier with ignoring me. I'm just kidding. Thanks again for the opportunity to provide an update. I wanted to say, we've had a challenging time over the last couple of months with schedules and etcetera - especially mine based on post-Harvey events. So, we did start the briefings with AT&T, but we only finished two - and finished the initial briefing. We have follow-on work for even these two. So, we are working to schedule new briefings and kick this up and kind of get it going in January with the Governors' decisions looming, you know. It's just been a matter of trying to get all the schedules to match up and it's not been easy to do that. So hopefully we'll be getting that back on target in January.

We did the user profile report out to AT&T. They did ask some questions of us. This is going to lead on and bridge into further work on ICAM. You know, we're trying to embrace the (unintelligible) framework, which is being recommended by most of the public safety agencies. Excuse me, organizations. And, so we have had initial discussions with the appropriate folks in AT&T. And we're working on possibly doing a pilot of some - of how the (unintelligible) framework might work in this environment, so we're working on that. We had a great call on public safety grade where we actually went through the statistical data that we picked and why we picked that to frame the public safety grade discussion. Again, focusing on availability of the network versus just strict straight up hardening, which is what Public Safety is normally used to. Because as you folks know, public safety grade for a cell network is a little different than a land mobile network because of the flexibility and the multiple sites. So, we touched on a good discussion there about how do we - how does AT&T and FirstNet report to the first responders about the success or failure of public safety grade? In other words how - what accountability is built in? What dashboards, metrics, these kinds of things. And we're working on now some ideas of the things we would like to see and give those to AT&T and we'll have another discussion again about liability of those factors. Next slide please.

Sue Swenson: And -- just for the record -- this is slide 17.

Tom Sorley: Thank you. So this is a picture of our expansive meeting room we had in San Antonio. And the lovely...

Sue Swenson: Big.

Tom Sorley: ...columns. So we - since that meeting we had a - our Fall webinar with the PSAC -- which we have a Spring and a Fall -- that took place in September, was - it was a great attended meeting, several of the board members including Sue and Jeff spoke, Mike spoke as well. It was a good webinar. A lot of good information was discussed and passed on. We're having our Winter meeting next week -- next Thursday -- in Atlanta. And we have a pretty full schedule, but one of the key things is we're really interested in looking at the beta of some of the products and from AT&T and FirstNet and kind of having some discussions around those things. So - next slide please.

So what are we going to be doing in 2018? We're going to continue to collaborate with FirstNet. We - as several speakers have already mentioned there is an evolution element that has to take place. We did a lot of -- I'm going to call it scientific -- stuff, research topics before. I think - we will still have a place to do some of that, but we need to be looking a lot at more practical things and providing more real time advice. And also how can the PSAC be better advocates bi-directionally? But - so we're going to look at how we can morph to make sure that we've got information flow from FirstNet that, you know, to our associations and the members and then back. As Rich mentioned earlier, there's a whole lot of people that have a whole lot of ideas and we understand that FirstNet and AT&T are both going to be out in the field talking to all these folks. What we want to make sure is that the PSAC has an opportunity to weigh in on things and put a level of, you know, spell -- I'm going to call it spellchecking, but that's the wrong word -- but put a level of review in there so that we don't end up going - doing something nationwide that is for one agency versus a broader view.

So I don't envision that happening. We're having some good luck so far with the apps work that Bill Schrier's been doing. And so I think we're going to be doing a lot of work in 2018, but again shifting gears a little bit from the research level stuff to more practical and advocacy work. So with that -- I believe that's my last slide -- and I'll take questions if you have any.

Sue Swenson: No, Tom. Other than I look forward to being at the meeting next week, several of us will be there, so we look forward to the agenda and discussion about the evolution, because it's just like the Board involving with the FirstNet organization. PSAC (unintelligible) involved as well. So I look forward to having that discussion with you in Atlanta. With that I think we're going to turn it over to Neil Cox, who's the Chair of the Technology Committee. Neil?

Neil Cox: Thank you, Madam Chair. Let me refresh everybody's memory a little bit about what the Technology Committee, what we do in the Technology Committee as a Board. As we have the responsibility to review, oversee, and recommend actions related to FirstNet's medium- and long-term technology strategies, the plans and the research and development activities. But during last year we did not approve any resolutions as Madam Chair -- and several of the other chairs of the committee -- has mentioned we did have the approval and finalizing of the award for the NPSBN. And we were very instrumental in that obviously with the preparing of the RFP that was sent out.

During the year, as a committee, we received a lot of briefings that provided a lot of guidance and advice, and I just want to highlight some of those. First of all was the integrated task teams associated with the award, and these are the task teams that really break down the implementation of how this network is going to roll out. And we received a lot of the briefings on that and we provided guidance as we felt necessary. We looked at a lot of the network policies, the applications and really did devices and (unintelligible) see some of the exciting devices that are going to - that will be manufactured for this network once it's up and running.

We spent a lot of time on the AT&T cyber security overview including their security operations center. We also got a look into the NIST and the PCSR public innovation accelerator program, the grant program. And we saw a lot of entrepreneurs that came up with these applications for Band-14 and the network as it will be deployed. And I think, as Rich Reed mentioned in his presentation, we've really become a leader in the world as far as this type of a network, and we participated in the world congress - the GSN World Congress - but we have really kind of moved, we were kind of in the pack and now we've taken a leadership role in the world as we deploy this very innovative network.

One of the exciting things that we did this year is - so we did have at the last September combined committee and board meetings in Boulder we had at the FirstNet innovation and technology lab, we had demonstrations by AT&T and some other vendors. And it's really exciting, you know, they were some basic ones that went from how we go from land mobile radio push-to-talk systems integration with Band-14 devices -- how they were communicating with each other -- to things that are very sophisticated around presence about when an incident happens and a first responder shows up at that incident, all the information that can be gathered and provided to the first responder and also provide it back to command and control for other people that are going to show up. And so it's really exciting to see some of these applications and they'll be developed as we roll this network out.

And it kind of reminds me of what's going on today. I mean we have the fires out West. And, you know, you have, you know, I'm in Illinois today and an Illinois firefighter wouldn't be very good at fighting forest fires, because they just don't do that here. However there are people down in Georgia that are very skilled with that. And just to think that they'll be able to get on a plane, take their devices and show up and be part of the operation with nothing else, just to bring their devices there and they're part of the command and control.

And you can also go into very sophisticated things, like people like first responders in Oakridge, Tennessee, which have special training, because of the facilities there around nuclear could be transported to Nevada if some event happens. So the ability and the power of this network is for someone to become part of that incident with the devices that they have at home and save hours and days of time. And they can even show up and be in control and command of that incident. And it's amazing what this technology will do.

And, you know, the thing that excites me -- the power of the technology -- will also probably invoke some legal aspects as we talk about this. And that -- as Tom mentioned -- you want to fill

these applications out nationwide, but you don't want to do anything that's also not going to work in a court of law. So violation of privacy acts and things like that could very well raise its head in the future, because the power that we have with this technology -- the devices that the first responders will have -- the systems integrations of all the other assistants that could be delivered to that first responder knowing that their device is always going to work and be very, very powerful.

So -- if I look at our charter -- you know, we don't see any need or make any recommendations to change it at this point in time to the FirstNet Board. However we will reserve the right -- as the December 28th, 29th opt-in deadline approaches -- that we may want to look and reassess our charter in the first or second quarter of next year. Because once we start - once the core is built, then it becomes the whole customer care, provision and maintenance, billing and collections associated with this network.

I mean the hard part is the operations of how first responder can provision, maintain their phones and their devices and there'll be a variety of devices. So one of the things that we're very excited about, our partners, their dedicated customer care center to deal with first responders, because there's going to be a lot of the devices, a lot of applications, but this specialized customer care center that they will be able to call into will be key to future and success of this network. So with that if there's no questions I'll turn it over to Jeff Bratcher, who will give us the technology update.

Sue Swenson: Hey - yes. Hey, I just wanted to comment, Neil, that I'm really glad to see that you're not excited about this at all. I mean, you know, I mean you're the perfect person to lead the technology committee and honestly with your background and in working with the team -- I mean -- that you really see the possibilities and it's nice to hear that excitement in your voice. So that's great. Thank you. Mr. Bratcher?

Unidentified Man: Uh oh. That's not good when our CTO can't get connected. Morse code. Communicating in Morse code. We'll have Paul brief this deck.

Unidentified Woman: So somebody's typing. I believe that Jeff is on Skype and that may be causing some technical difficulties now.

Sue Swenson: Well, maybe we can do the NPO update and have him resolve the issues and we can come back to him. Would that be okay?

Unidentified Man: Great idea.

Sue Swenson: Okay. So with that we're going to turn the floor over to James Mitchell, who's been very involved in the work here at FirstNet and from the contract all the way down to the program execution. So the floor is yours, James.

James Mitchell: Thank you. And some of my stuff I'm going to lose with Jeff's presentation.

Sue Swenson: Okay.

James Mitchell: We'll be, but I'm going to step on his toes too much, but...

Unidentified Man: You can steal his thunder. If he can't get on.

Sue Swenson: Steal it.

James Mitchell: We skipped ahead to the slide number 30. Thank you, Paul. So it's been a pretty big year at FirstNet. We won the protest. We've made the awards to AT&T. We're in full-blown partnership at this point. But I think most importantly today we're looking at the end of a major campaign of (unintelligible) activity that Rich alluded to earlier. We're going to see the fruit of that labor on December 29th. It's my second Christmas. I get to wake up and look at a big map and (unintelligible) the action (unintelligible). But it's important to remember that all this stuff that we've done, the portals that Rich mentioned earlier, stuff that Jeff's going to talk about from the development of the application, because system devices (unintelligible). All of that really is sort of a - the conversions of an effort between AT&T, FirstNet and this contract that we continue to talk about.

The initial steps that AT&T has taken -- and is supposed to capture it here on this slide -- to get public safety's dedicated core up and running early next year, or all the complete - we're in the thick of what we call (unintelligible) CTO space to it. (Unintelligible) that includes the items like products and services, devices and applications. I'm going to talk a little bit about that from a schedule standpoint on a couple slides.

But there's a huge list to get there. So I don't want to make this sound like it's terribly easy and Jeff's presentation gets into a lot of this and (unintelligible). But we did have our deployment as well. The (unintelligible). I'm eager to see that math, because those (unintelligible) decisions trigger that, our ability to go and have AT&T deploy the Band14 for public safety and those states. We have our delivery order drafted. That's ready to go. We're going to be briefing Mike on that here -- I think -- in the next few days and we're going to take that to AT&T and sort of run the tracks with them on what's important from a partnership perspective and how we're going to go the - deploy this network.

And the whole time we're trying to figure out ways -- with AT&T -- how to measure that success, on how to learn from that success and really inform our stakeholder communities including the Board and NTIA and Commerce and Congress and all of public safety about how this is working. So all of that is in (unintelligible).

On the next slide -- looking forward -- like I said, we have this Band 14 and we're in deployment, but we also, you know -- speaking about the core -- as we work through what's necessary to the executed, we've done this before -- I've mentioned this I think previously -- our requirements traceability matrix in which, boring government speak for the list of things that we absolutely have to do on the critical path of getting these major milestones stood up.

Much of that is solved by the proposal in the contract, but the relationships between FirstNet and AT&T -- emerging technologies, potential roadblocks that we didn't see two years ago when we drafted the acquisition. It's important for us to keep that dialog. (Unintelligible) currently we're about 300 items that need to be done between now and the end of March to make that core a real - a reality, and we'll have all that wrapped up this month, and that includes many of the features and products that Jeff's going to talk about in his presentation.

There - to give you an example, we are not just doing this remotely, you know, separately. We're sharing a space. We're going to their labs. They're coming to our lab. That's an important interaction...that we've tried to support and is not always typical of the government's contracting world...

Sue Swenson: Right.

James Mitchell: ...that integration for (unintelligible) essential to this partnership. And we spent a better part of the year trying to enable that and make that happen. I think we've been very successful. And, lastly, when I talk about measuring this we're - we are developing a network dashboard, the NPSPN dashboard. And what that means is basically we're getting a lot of data out of this relationship. Network performance, our contractor's performance, our performance is all important and really indicative of our ability to talk about success -- and taking this for a channel (unintelligible) information and marry it up in a visual way -- it's going to get us beyond the slide decks. Right?

Sue Swenson: Right. Right.

James Mitchell: And beyond talking points. To have that real data in front of us is a quantified success and be able to show a picture of that success or failure, because lessons do need to be learned.

Sue Swenson: Is that a joint effort? Or are we developing that?

James Mitchell: So we're developing that internally.

Sue Swenson: Okay.

James Mitchell: But we're using much of the data coming from AT&T. And then we talked among used network performances we sample.

Sue Swenson: Right.

James Mitchell: We had a vision for network performance and how we would measure it before we knew who our contractor and partner was.

Sue Swenson: Right.

James Mitchell: And the second we made that award and headed the conversations it was clear to us because of the nature of how Band 14 is being deployed and on an existing commercial network to a complicated public safety core. The metrics (unintelligible) discussed and changed essentially, so we're (unintelligible) the reality of the network, so the (unintelligible).

Sue Swenson: Correct.

James Mitchell: And we've done that. We've walked a number of our reports and deliverables back from their original sort of blue sky. We didn't know what was happening. to more of a -- okay -- but now we have a specific company and we have their business model and we understand how they go to market, how they do their work today. And we understand public safety's priorities. How we marry those up in a reality that tells us the kinds of things that we need to know. That dialog continues and it will continue for 25 years honestly as technology evolves.

Sue Swenson: Just how long do you think it'll take to create this dashboard? I mean (unintelligible) I mean there's data phase...

James Mitchell: Sure.

Sue Swenson: ...and then there's the visualization. So it's not, you know, not trivial in terms of what you're undertaking.

James Mitchell: It isn't. And we have a beta of that dashboard today.

Sue Swenson: Okay.

James Mitchell: And we're testing a number of features right now. What we're doing is trying to take those reports that AT&T develops and pipe that they're sending all this information (unintelligible) to that. We don't want to change the way they behave. Because it'll affect the quality and data ultimately it's (unintelligible). But we're hoping to roll this out on - in January, February next year for visibility to the entire organization to get an idea (unintelligible).

Sue Swenson: Excellent.

James Mitchell: And it's (unintelligible) also important. You don't want everything in front of you. You want the things that are important if we're trying to scale that appropriately.

Sue Swenson: Okay. Yes.

James Mitchell: The other thing I want to talk about on that dashboard point is that the scalability - the extent that we want to measure reinvestment in the same way.

Sue Swenson: Right.

James Mitchell: Because the platform for our portfolio is the network, is the relationship with AT&T, additional projects that are being developed should be reporting to (unintelligible) if it's successful. So we're...

Sue Swenson: Even if it's not AT&T.

James Mitchell: That's right. We're trying to keep in mind there...and so there may be an enterprise future here. We're just not there yet...

Sue Swenson: Okay.

James Mitchell: ...(unintelligible) on the network.

Sue Swenson: Okay.

James Mitchell: Any questions so far before I move to schedule?

Sue Swenson: No. I'm just keeping (unintelligible).

James Mitchell: (Unintelligible). On the next slide I mentioned that it is a complex process. This is our simplified view of our schedule and that critical path really is the delivery of the public safety core is FirstNet. All that's depending upon our Governors' decisions, which happens December 28th and the 29th when we wake up and see that map. And then also our constant ongoing discussion dialog around cybersecurity (unintelligible) is incredibly important so that you remember (unintelligible) those requirements are intact and we're navigating that with AT&T now. I think our CTO and some of the members of the NPO next week have a meeting with AT&T and track a lot of the information up, so I'm looking for a positive (unintelligible) everybody.

And then finally we have that core being delivered at the end of March to FirstNet. The kind of light switch we're going to put for (unintelligible) this is important to understand that we're iterating with AT&T through these next few months all the way to March. There's 300 or so items that I mentioned that are going to be frankly important and we need to make sure that all of that is lined up and everything is sort of in place with AT&T before we bring that to public safety. So we want to make sure that it works, right? And I think (unintelligible) step on witness task force, right, make sure it works. So that's where - that's (unintelligible) getting - but - and lastly, you know, the really - the contracts solved a lot of these issues naturally, but - and that's the spine of this program.

But the real muscle is the people. (Unintelligible) all of that is rallying around this schedule and these items and they're making it happen with AT&T and I think that's incredibly important. It's just - it's a mission that Kevin this morning (unintelligible) got to keep moving that ball forward. And I think we're doing a pretty good job of it, so I'm open for any questions.

Sue Swenson: Any questions from anyone for James? I would just like to say thanks, James, to you and the entire team working on this. You know, there's a lot that goes on that people don't see and -- if it doesn't go well -- you know, it's - we wouldn't be where we are today. So I appreciate, you know, (unintelligible) around here. Thank you so much.

James Mitchell: Thank you. I appreciate it.

Sue Swenson: I think now I'd like to check in with our CTO, Jeff Bratcher, to see if he's been able to connect. Are you off Skype?

Jeff Bratcher: Chairwoman, I am online. Can you hear me?

Sue Swenson: Yes. I can. I can. Very good. Well go ahead, Jeff.

Karen Miller-Kuwana: And if I could just set this on back to slide 19 and use your title slide?

Sue Swenson: Yes.

Jeff Bratcher: Thank you very much. That was actually a design by (unintelligible) We wanted to save the best for last, so I planned the - so happy to be here. Thank you board members and Chairwoman and Vice Chair Johnson for the opportunity to speak to you today.

I wanted to touch back on the Outreach Committee on the products and solutions influence and also give some data points on the industry engagement side of that. Rich did a fantastic job explaining the public safety inputs and how we're driving those and we'll continue to drive those into this network. But we've also continued our efforts in meeting with the public safety vendors; in calendar year 2017 we actually held over 75 vendor meetings and we have a few still yet to do this year, this month. And it's -- if you recall -- back at the APTO conference in August we did re-launch our doing business with FirstNet capabilities. These FirstNet.gov/business website is available for the industry.

So we did re-launch the publicsafety.gov/business, how industry can actually alert us of their technologies and those focused on public safety. The FirstNet teams have accepted many of those requests so far. The data points on those have been focused on applications about 40% of the requests coming in, 20% of those have been focused around the core network technologies. And the remaining 40% fairly equally split among other areas such as public safety specific devices, lab equipment, testing, field service testing and capabilities along that. So we're really excited and I know the team's excited about the industry engagement and those key public safety technologies that we want to bring forward and continue to evolve and push into the network.

So with that I'll move into the bulk of my presentation. So, Karen, if you go to the next slide? So I want to give a quick update on the innovation and test laboratory, some key milestones that we held here and another one with the installation and configuration of our radio-access network load testing tool here in the Boulder lab. That has been completed. We've made initial calls and

data sessions using that tool and that will be a key component of our validation efforts moving forward. This allows us to actually load a sector of a - an LTE cell site and validate and perform those priority and preemption capabilities that are unique and critical to this network for public safety.

I'm also happy to report that we had technical teams this week actually in the Washington labs of AT&T. And they were - AT&T hosted some demonstrations and validations of the preemption capability on their commercial network; that's on target and scheduled to be in the network the end of this month for those public safety users that have adopted the service in the opt-in states. So the team was very excited and was able to demonstrate and AT&T demonstrated with their vendors these capabilities that I know you've been uniquely focused on over the last four years and holding me personally accountable to make sure these work and we're happy to announce that we're very pleased with those -- the capabilities -- and that's being rolled out in the commercial network now. And as they add the Band 14 and the state RANs into this moving forward with our core network that's scheduled to go online in March we'll be ready to roll.

Sue Swenson: Okay.

Jeff Bratcher: Next slide, Karen. So I'd like to touch on the application's ecosystem and updates to that and our infrastructure that will enable this innovative and evolving set of public safety applications. I'm going to focus on some of the initial capabilities that have been delivered to date as well as our approached innovation and interoperability moving forward.

So you see four key areas here. I'll touch briefly on the local control aspect. So this is a key feature that we feel for the FirstNet network Public Safety is going to gain a lot of value out of this and that's what they've actually asked us for as part of our consultation efforts. And it'll provide those capabilities for the agencies to control their subscriptions, the users, the devices and those applications that they want their users to leverage to optimize their user experiences. So the agencies that adopt FirstNet will have access to several online self-service local control functions. And this'll all be done through this single convenient home page location here that you see on the upper left. And this will enable them -- as I mentioned -- to set up new users, assign the roles, the capabilities, change rate plans so there'd be different ones to add and delete services, activate or deactivate the devices, manage the user visibility -- the apps and the application store -- recommend or block specific applications. Push the applications to those mobile devices that their agency -- if they have an enterprise mobility management system, which a lot of the large agencies across the United States for public safety have these types of systems that push out the applications -- they use for their business and public safety practices. Manage pod groups, managed pod group naming, address books, really enterprise-level type capabilities through this, manage the billing and view the reports, device inventory, summaries of usage. So we're really excited about this local control capability. We've seen the initial delivery of this and are excited to see that moved out.

I'll move on to the network status dates. So this is going to deliver to the FirstNet subscribers, the network status and provide those administrators and incident managers an unprecedented

level of insight into the actual wireless network operations for FirstNet and with our partner, AT&T. This is a level that has never been provided before even at a commercial level or a large enterprise level. We're really excited with the capabilities that are being built into this for those incident managers to know where their issues with the - in the network and the other actions happening on the service. And -- again -- this is the unique service offering for the public safety FirstNet subscribers. The administrator can access the maps of the local coverage and site conditions and overlay it with external data that they may wish to add additional layers such as weather, traffic, alerts, or centers they may have already existing in their networks. So really excited that's another key aspect for this moving forward.

I'll move onto the application developer portal and program. We mentioned this previously. We're really excited. We're generating a lot of interest in this space. This portal and program will encourage the Public Safety -- I'm sorry -- the developer community to explore and embrace creating solutions specific for Public Safety's use with broadband data technologies. This will be the gateway to all those resources required by the developers to build, deploy, and maintain those specific applications. We view this as an incubator to foster the interoperability and increase the quality and usability of the public safety applications. They'll have access to the application programming interfaces, the software development kits, the guidelines, to process documents, calendar events, how we're driving the ecosystem forward.

There's an application review and certification process that'll be unique to the FirstNet application developer program for this. Public Safety has been very adamant. If they're going to be in this application's tool we want to make sure they're trusted and secure. It should be listed in the FirstNet application store. It must achieve one of these two ratings. And it'll be launched - actually we launched this publically via webinar just last month through IWCE with panelist from AT&T, APCO International, and FirstNet. We've got a tremendously high interest in the program. We have participants from industry, academia, associations, and Public Safety already signed up and ready to start developing these. We're actively encouraging those interested to register in this program and become part of this public safety developer community. We've got some exciting programs coming in the near term as well for this.

And then finally I'll touch on the FirstNet application store. Again, this will serve as the home for an evolving portfolio of applications developed for - and in a lot of cases there have been developed by the Public Safety community themselves. Here in the Boulder,/Denver area we're aware of at least 10 public safety actual practitioners that also -- as a side hobby for fun -- develop applications, and we've been talking with them, getting them involved in this to move forward. Who better to build applications than those that are out going to use them every day as well. The developer portal and the application store will -- again -- provide these tools and capabilities for this - to fill the application store with innovative new applications and solutions. It'll initially include some areas along the tools to improve team communications, the workflow situational awareness, applications related to device security and mobile device management, secured connections, Cloud services, optimized at agency community - computing storage and network resources.

And true to our vision and Public Safety's vision of this application store that we've worked over the last three to four years to put in place, the store will coexist with and complement those existing commercial application stores. The Google Play store and the IOS store and Windows Mobile store. Next slide please. And, Karen, for the audience what slide number is this? I don't have it on mine.

Karen Miller-Kuwana: It's slide 22.

Jeff Bratcher: Thanks, Karen. So moving into the applications, the innovation and interoperability moving forward. Again there's no requirement for a public safety agency or user to subscribe to FirstNet. It is truly a valued proposition based on will it meet the needs that they have for their broadband wireless data communications. So we feel it's vital to create these innovative applications and solutions that provide compelling valued proposition for them to leverage our network which gives them unprecedented priority and preemption capability. And the needs of Public Safety are not static. They evolve continuously and we want to be that catalyst for the continuous innovation in the applications. We're creating the processes and infrastructures for a program of continuous innovation in 2018 and beyond.

And this includes fresh and new solutions, but also taking existing solutions and ensuring they can be updated to take advantage of these key and unique network capabilities related to priority and (unintelligible) in the local control, some of those key aspects I mentioned earlier. Again, we call it stocking the pond, you know, for the first wave of the FirstNet application store improving them as needed to support the mission going forward. So building upon the groundwork that we put in place here in 2017, we're going to formally launch this innovation program in the first quarter of calendar year 2018, with a set of targeted engagements. We're going to have a public safety user-focused application innovation forum the first quarter of calendar '18. And the goal of this is to identify both the current and future state of public safety's broadband tool kit.

And we've taken informative steps in starting to build a vibrant public safety application developer community -- again -- with the launch of our application developer program; our direct market research with application vendors that want to take what they're doing and bring it to the public safety community to move that forward, and now also engagements with the industry groups that are focused on this. And now -- while our initial focus will be on applications -- we do see broadening this into other capabilities as well. We're really excited about this moving forward.

Next slide please. So I'll touch briefly on a core update. So we know there's a key milestone coming up in the March 2018 timeframe. Again the FirstNet dedicated core network is scheduled to be online in that timeframe. It's called IOC-2 for those following the federal contract language. Basically means year one of the contract is how you should think about it since we signed the contract in March of 2017. So the finalized design solution is in place and it's actually being implemented now as we speak. The team received an update at the meetings earlier this week as well on how that's being done with the geographic redundancy and the locations of the data centers that constrain these key core elements.

This will ensure the lockdown of those basic features. So I want to reiterate the basic cellular phone features that we're all familiar with today. We'll also work on the FirstNet network. We have the voice test - texting messaging capabilities as part of the subscription package. The core also will help us drive those key mission critical services moving forward and driving those solutions to meet public safety's needs and requirements. We've established focus groups with the technical team at AT&T and are discussing these recommendations. And those mission critical services that AT&T is permitting to building into this network based on the open standard within 3GPP or the other standard bodies as applicable and driving that for Public Safety in the future.

Again, we're leveraging our market research in what is going on in the industry. As Rich mentioned, we talked with over 11 countries last week at the public safety communications Europe conference. They're all key and adamant on driving standards-based solutions. We're leading that pack. We started that development within 3GPP, you know, right as the law was signed with FirstNet being created and keeping on that mission to drive that, not only for 4G, but 5G and as the technology matures and progresses over the next, you know, 25 years.

One thing I'll touch on as well that I know is key to Chair - Vice Chair Johnson is our location-based services and that three dimensional geo-location. So we've been in close collaboration with the customer office team -- those that have been out in the field, our subject matter experts from Public Safety that we're fortunate to have on board here at FirstNet, as well as our Public Safety Advisory Committee -- to create a location-based use cases document. So we've heard from industry. We've heard from the public safety communications research program. What are the actual use cases and requirements and needs public safety has for that 3-D geo-location X, Y, and Z axis location capability? We're close to having that final version ready to be released and we included feedback from police, fire and EMS -- our subject matter experts -- as well as others to expand the use case and release that. We see this as a definite critical area in technology development for the FirstNet network and public safety, you know, worldwide to greatly improve this situational awareness and coordination capabilities. And this will help shape those plans for how we determine those - that solution meet public safety's needs for this space. And I look forward to having that out here in the near term.

I'll move on to the next slide. Again, back to devices and driving the global ecosystem. AT&T has updated their requirements, documentations that go out to all their vendors that provide devices including the Band 14 now in those requirements. So we're excited with the ecosystem that'll be developed and enhanced as we move forward. We know the capability that AT&T has committed to this network, the existing smart phones that used to date can - will be FirstNet capable phones as well with the priority and preemption capabilities as we add Band 14 over the next two to three years; with the (unintelligible) of rollout in the states, those devices will be seated and we'll have Band 14 driving into that as well. We've got the in-vehicle routers, the wearable hands free, how do we leverage capabilities for those extreme environments with gloves and other type capabilities and also the internet of things and moving that forward.

Next slide, Karen. And -- again -- we'll continue to influence this device ecosystem. We've had fantastic meetings with AT&T leveraging that and we plan to continue and move that forward as we start adding subscribers to the network and getting the public safety needs and requirements built into these ecosystems and driving it into that. There was a lot of discussion last week as well about the capabilities and services, the mission critical push to talk. Some of the mission critical video and data standard capabilities that are coming down the path with 3GPP as well.

Next slide, Karen. I'd like to touch briefly on our device approval program. So for those that recall, within the legislation, there is a critical component that the director of NIST, in consultation with FirstNet, will ensure the development of a list of certified devices for the FirstNet network. So we have that program. We've been working closely with NIST and AT&T. That's been fully documented and agreed to. We have the initial stages of that with IOC-1 when we hit that milestone in September, so we have that process in place now and we're ready to move that forward. We expect portfolio updates to happen monthly going forward. This device approval program for IOC-2 in March, we'll have the audit and verification capabilities. There's meetings the week of January 22nd at AT&T's main device - or device system and laboratory in Austin. And then we'll have the targeted list for IOC-2 the end of January, early February, so they're ready to hit the ground running on that moving forward.

Next slide, Karen. I wanted to touch briefly as well on our recent open standards accomplishments and what has been happening within those committees and communities. Again we've been very active driving these requirements into the standards to ensure we're meeting Public Safety's needs. We're working directly to drive that with industry worldwide. We've got over -- I believe -- 15 different countries, a lot of those that we met with last week that also have now their technical engineers or their vendors that are building networks for them involved in 3GPP and driving these capabilities for mission-critical capabilities for Public Safety into the standards and ensuring we maintain a standards-based solution moving forward for Public Safety on this.

There's been a strong -- I wouldn't say switch -- but a strong focus now on 5G in some of the future technologies. The - I'm happy to announce the - they are leveraging the Public Safety work into that as well. We need to make sure Public Safety -- and that's our goal -- remains involved and they don't leave Public Safety to the wayside as they move into 5G and 6G, and we have fantastic capabilities and coworking agreements with AT&T in the other countries that are supporting this in the committees.

Next slide, Karen. And I think I'm almost done. And -- again -- that strategy is really a three-fold strategy, the wireless technology. So this is the network technologies, the LTE, the 5G, the radio access network and the involved packet core backbone to enhance these mission-critical services and the enablers that enable those mission-critical services to work. So that's a key concept within the standards committees while we are heavily involved in that and driving that for Public Safety leveraging those requirements into there.

Location services, driving that as well. That's some of the capabilities they're looking at now. We want to push those and make sure public safety's needs can be put into that. Proximity services, the ability to communicate outside a network. Driving those and continuing to do the device to device, which is a key component we've heard from Public Safety.

Another pillar is the interoperability with legacy within the United States. And we were explaining last week and I don't think they quite understand - understood the scope and scale until we described there's over 12,000 land mobile radio systems in use today across the United States. And only about a quarter of those are based on standards. So there's going to be interworking functions needed if they want to connect those LMR voice-centered systems into a broadband capability. What does that look like? So we're working on this interworking function.

There's some committees being set up with (unintelligible) to help drive some of these standards or the profiles on how you would connect these into that ,and (unintelligible) are working to development this, the LMR to LTE interworking function, and we're - be participating in those kick-off meetings next week. And then -- again -- the applications, driving - there's no single unifying standard for data on the application side. So we're targeting areas in the standards committees needed to drive the standards into - for Public Safety on the application side of this. And that'll provide interoperable data exchange. The formats, the schemas of the data, so that that data can be shared among agencies when they do, to Chairman Cox's earlier comments, about responding in different parts of the country and leveraging the applications that are in use there. And then we'll, you know, continue to create and enhance these application standards moving forward.

And I'll wrap up -- last but not least -- as I've presented to the Board the last two meetings, our cyber security effort updates. We're very pleased with the active approach and the seriousness that AT&T is taking with the cyber security approach through the network. With some of the updates I've provided previously we're on track and scheduled to deliver the quality assurance and surveillance plan on the cyber security efforts of this and move that forward into the network going forward. So with that, Chairman Cox, I believe my update is over and I'm out - happy to answer any questions.

Sue Swenson: Any questions from the Board? Kevin?

Unidentified Man: Well not question so much as comments (unintelligible) suggest and the work that Neil's directing, which I think is really going to establish the heart and soul for the value-add that this network will be able to provide. And as Neil talked about people being able to -- you know, skilled individuals in a particular area -- being able to, you know, (unintelligible) relocate temporarily to aid -- and whatever that emergency is -- is truly remarkable and the ability to get on this network and effectively a pleasant play basis is spectacular.

I would say that the ecosystem that Jeff talks about for the source -- while it may start out as a maybe part-time effort on behalf of some first responders who just have great ideas -- I think will

very rapidly evolve into a mecca for people to come to to grab hold of maps, try them out and then choose to how to go about adopting it. So I really - I'm very excited about what he's doing.

Sue Swenson: Great. Kevin?

Kevin McGinnis: Yes. Just a quick question, Jeff. Thanks for the report. It was really informative. Where do we stand in a high level at this point on the (unintelligible) feasibility of bringing (unintelligible) device program?

Jeff Bratcher: Great question, Kevin. So that is a key component of our solution with FirstNet. And those users -- because we're well aware there's a lot of users that have their own devices -- so we're happy with the initial work we've done with AT&T to make that available. As the core comes online and we're rolling out the actual network identifier for FirstNet we're working through the logistics on what that would entail. But with that is the key component of the program, Kevin, and we'll be providing additional details as we get closer to adding that as we get past the December 28th deadline.

Kevin McGinnis: All right. That sounds great. That's very optimistic. I don't mean optimistic. That's good.

Sue Swenson: It's good. It's about the important topic.

Kevin McGinnis: Yes.

Sue Swenson: You know, just, I would like to make a commercial announcement here, like an advertisement. Jeff, you talked about all the people that you're interacting with and you have a lot of inquiries and as you know several (unintelligible). I would just like to say that there is something on the FirstNet.gov site that says doing this is with FirstNet. So people who are in the listening audience who have an interest in talking to FirstNet just go onto that site, fill it out and the appropriate people will engage with you as appropriate. So just a little commercial there, Jeff, just to simplify the process instead of you having to redirect them to that, because we need to have that as part of our record. And you turn that around very, very quickly, so I just encourage people to use that if you're okay with that.

Jeff Bratcher: Absolutely. Thank you, Chairwoman. And that's the critical door to FirstNet. It helps us track everything, we document everything.

Sue Swenson: Right.

Jeff Bratcher: ...the meetings, et cetera.

Sue Swenson: Right. So that's important. So I think we're to the part of the meeting where, Mike, I think you have an update for the Board and (unintelligible).

Mike Poth: Sure. Just give a brief update. First of all I want to thank the Board and the entire team for -- the FirstNet team -- for everything they've done. The PSAC, NCIA, Commerce, you know, the Departments of Justice, and Homeland Security and OMB and the Department of Interior, it truly takes everyone's efforts and when everyone's growing in the same direction things happen and -- as you mentioned earlier -- we're, you know, at - we're on schedule and ahead of schedule in certain things and we're on budget and that's because of the collective of work of everybody. Also want to point out that this is TJ Kennedy and Jason Karp's last board meeting. They are - have submitted their resignations and are moving onto -- I don't want to think better -- hopefully better things for them.

Sue Swenson: Yes.

Mike Poth: They're going to be sorting this, but the good news is the FirstNet team has grown and evolved over the years. We have a deep bench and so with the old (unintelligible) and the next band and next warming up are coming in place to, you know, take the - fill some pretty big shoes, but we want to thank them for all their hard work to have gotten us, you know, and their contributions getting us to this point.

Sue Swenson: Absolutely.

Mike Poth: And when we think about this last year from defending our (unintelligible) court to awarding the contract in March and now it's wind down to the state plan decision process with 21 days left, you know, we've achieved what we said we're going to do and what we needed to do in order to launch this network. Now through it all when you think about it we have built the foundation that will be a breakthrough for public safety. This is the network they've asked for, that they've needed for so long, one that's interoperable, sustainable, and built with the input into their needs and is on the way. As you mentioned in your opening comments, every single day there's disasters and tragedies happening constantly that hopefully this will have a small help - a small role in helping the first responders and the communities affected." So it's...

Sue Swenson: Right.

Mike Poth:...the need is ever-more present. You know, this is also going to redefine -- as you heard today -- the public safety marketplace, bringing them specialized services, innovation and a customer experience that they've never had before. You know, we're pleased that we have 35 states and territories that have accepted the FirstNet plan. So far in the coming weeks we will have a clear line of sight of executing the network in 2018. You know, we continue to hear some speculation that after the Governors' decision period FirstNet will be moving aside to let the partner -- AT&T -- set the course. Well I'm here to set the record straight -- yet again -- that that won't be the case. They're our network partner and we'll be making sure that AT&T delivers on their commitment as they have been doing for the last nine months. We're not just here to oversee the contractual obligations, but even as Kathy and Kevin mentioned, we have much more to do. We will maintain communications, coordination, advice, guidance and support for both AT&T and to public safety for years to come. Our mission doesn't end when the network

begins. In fact, growth and change will be vital for us to keep up with the demands of public safety customers and technology.

When you look at our roadmap here's the things that we're targeting over the next nine to ten months, and you can kind of put them in about three buckets, deploy and innovate and evolve. Now to deploy, the network deploy is our top priority. We're going to move quickly into the new year, the issue task works for the network deployment in the opt-in states and we'll work out - we'll work with any opt-out states throughout their process. The first (unintelligible) core dedicated to public safety is on target to be online in March, that James and Jeff had mentioned earlier. The core's primary functions are vital to public safety's life saving mission and we'll differentiate our services from commercial offerings providing them with the security they need to communicate and share highly sensitive data over the network.

We're also going to be innovating as you've heard. We'll be working to continuously expand, upgrade, and innovate the network, make sure applications and mission critical functions like push to talk are optimized for use by public safety subscribers of the network. Our apps program is an example of how we are going to be redefining what it means to serve public safety. The program brings together first responders with developers to simulate - simulate apps uses to adoption (unintelligible) evolution.

Sue Swenson: And simulate.

Mike Poth: And simulate. And we look forward to hosting an innovation summit in the Spring to advance our work on public safety apps and growing the public safety app store. And we're going to evolve. Our organization's people continue to be our top priority too. FirstNet is going to have to evolve so that we are in the best position to advocate for public safety and drive accountability for AT&T. You know, all of us -- and the Board hopefully as well -- should be extremely proud of the men and women of FirstNet and the entire federal government that has been working on this to continue to operate in a high performance culture. This includes continuing our public safety outreach -- our listening doers as I like to say -- and working with the state's opt-in or opt-out to ensure that the network is built to their needs and delivering what they've asked for and what they fought for. You know, it's an enormous responsibility. We've covered a lot of data in short time and we've, you know, truly appreciate the support and thank the board members for all their efforts this year and we look forward to, you know, December 29th, January 2nd, March 31st, January 2019 (unintelligible)...2020 and those things...so thank you very much.

Sue Swenson: Thanks, Mike.

Mike Poth: And I'll take any questions.

Sue Swenson: Yes. Mike, just a comment. You know, I think first of all -- as I've got my thanks to TJ Kennedy and Jason Karp, who are attending today to your comments. Obviously they've been here - I think TJ started before Jason did and then Jason followed on, but obviously they set

a foundation for a lot of things. So I and the entire Board wish both of them just the best of luck and I know that they don't need luck and I know that they're also going to be advocating for public safety no matter what they do. So I have a feeling that we'll probably continue to see them and look forward to that continuing interaction in whatever they choose to do. So I wish them the best.

Mike Poth: Absolutely.

Sue Swenson: Secondly, you know, when I look at the roadmap what's interesting is, you know, we've started this kind of roadmap idea back in 2014 and it served us well. I think the thing that's facing us now -- and you kind of eluded to it -- is really, you know, we're now going to have to really create that. I mean we've really been following the legislation and kind of getting to a point, but I think FirstNet is going to have to become much more strategic in what it does and in its role as a public safety advocate. And so I think it's going to be an exciting time for the organization to get beyond kind of what has been underway for the last five years and actually move to really creating our own destiny here. So I think it's a trying time for the organizations and the Board, for public safety frankly. And so I think the foundation's great for a future here, so I appreciate the (unintelligible)...the way you've done that to move that. Before we move to closed session are there any comments or questions that the board would like to comment on or questions at this point?

Ed Horowitz: I just would like to add my welcome to others for Dave Redl coming on board. Looking forward to working with him...

Sue Swenson: Good.

Ed Horowitz: ...as we move this thing forward. Thank you so much.

Sue Swenson: Excellent.

Ed Horowitz: Also, I'm sorry, one thing for TJ and Jason -- what can I say -- they're - you've given a portion of your life to this organization and for that we're forever grateful.

Sue Swenson: Thank you, Ed. Anybody else? Go ahead, Teri.

Teri Takei: I just want to add to what you and Ed said. You know, we've - for those of us that have been on the board since the early days - we know certainly how much effort that TJ and Jason have put into this. I mean it's really been a labor of love. It's really been heart and soul. And, you know, we look - certainly are grateful for everything they've done, but as well we look forward to continuing to work with them in the future. So -- again -- all the best.

Sue Swenson: Thank you, Teri.

Kevin McGinnis: Just...

Sue Swenson: Go ahead, Kevin.

Kevin McGinnis: I just - I would pile on with Teri there. For those of us that have been around (unintelligible) first thing before it was FirstNet and then watch all of the various stages I do want to just note that we really appreciate the piece that TJ and Jason brought to us. TJ, I will greatly miss your - parts of your performance. You're a cop, a firefighter, a paramedic and I certainly will miss the paramedic part.

Sue Swenson: Yes. He won't have anybody (unintelligible). Right. No. That's great. With that I would entertain we're going to move into closed session. Once again -- I mentioned at the beginning of the meeting -- to discuss some personnel and contractual matters. So with that I would entertain a motion to adjourn and move...into closed session - thank you. Is there a second?

Unidentified Man: Second.

Sue Swenson: All those in favor please signify by saying aye.

Group: Aye.

Sue Swenson: I assume no objections or abstentions unless otherwise stated. We are adjourned. Thank you everybody for joining.

END