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Transcript

FirstNet Combined Committee and Board Meeting Webcast June 28, 2017

COORDINATOR: Thank you for standing by. This call is being recorded. If you have any objections you may disconnect at this time. I'd like to turn it over to your host. At any time you may begin.

KAREN MILLER-KUWANA: Great, thank you.

SUE SWENSON: Okay, good morning everyone. Welcome to the second quarter 2017 FirstNet committee and Board meetings here in Reston, Virginia. Nice to be back near the first FirstNet headquarters. You know, it's kind of interesting to be here at this particular point in time. You know, we've been doing this for – gosh – 4.5 years or something like that and here we are now at a new phase. You know, we've been doing a lot of planning and thinking about what we're going to do and now we're moving into a new era. And I'm pretty excited about this era. I think everybody else is, too. A lot of good work has been done by the FirstNet management team and the Board and we're excited to be here, and this is nice to be talking about actually deploying this network that we've been talking about as I learned from Mr. McEwen for 20-some years. I think he said he started this in1997, right, Harlin? So it's pretty exciting to actually be here. It's sort of surreal still, but we're getting closer and closer.

As we've done in the past, we're going to make efficient use of everybody's time, and we're going to have our committee and Board meetings all in one day. So we can get that all done in one session. We have a few administrative items to take care of today, but we're also going to get some updates – significant updates from the FirstNet management team and I won't go through the long list of updates, but you'll hear them today. And we're also going to take a moment today to do a little bit of well-deserved recognition, which we'll start with a little bit later.

And so you attending in person and those of you on the WebEx can plan your day accordingly, we're probably going to take a lunch break about 11:00 and then the Board will also go into a closed session around that time. We'll give you a few minutes to grab a bite to eat and then we're

1

going to go into a closed session to discuss network security. And, obviously, that's a topic that we'll want to keep in closed session because of the sensitive nature of it.

We plan to return at 1:30pm Eastern time, and we'll close out the meeting with an update on state plans and a CEO update from Mike. So let's get started, Karen, with the conflicts notification.

KAREN MILLER-KUWANA: Yes, thank you. The senior leadership has sent the conflict notification to the Board members in advance of the meeting and so at this time I would like to just remind all Board members of their obligations relating to conflicts of interest and ask them to identify whether any recusals from deliberations or voting are necessary today. Seeing none, we can proceed.

SUE SWENSON: Great. You have two sets of minutes in front of you. You have a set of minutes from the March 14 – oh, roll call. I always forget the roll call. I just see everybody here, so I just move on. I know – everyone's here. Let's go. Let's not be dilly dallying around with roll call. Karen, please do the roll call.

KAREN MILLER-KUWANA: And before we call roll, if I could just ask those of you on the phone if you could mute your phones. I think we're getting a little bit of background noise – after I call your roll. So go ahead and answer yes and then you can put us on mute. Sue Swenson?

SUE SWENSON: Here.

KAREN MILLER-KUWANA: Jeff Johnson?

JEFF JOHNSON: Here.

KAREN MILLER-KUWANA: Ed Horowitz?

EDWARD HOROWITZ: Here.

KAREN MILLER-KUWANA: Chris Burbank? Governor 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 Tekai?

TERI TEKAI: Here.

KAREN MILLER-KUWANA: Kathy Kraninger?

KATHY KRANINGER: Here.

KAREN MILLER-KUWANA: David Hess?

DAVID HESS: Here.

KAREN MILLER-KUWANA: Chris Piehota?

CHRIS PIEHOTA: Here.

KAREN MILLER-KUWANA: Thank you. Madam Chair, we have a quorum for both the committees of the Board as well as the Board.

SUE SWENSON: Great, thank you very much. Now we can go on to the two sets of minutes that we have. And we had a teleconference back in March. On the 14th we had committee meetings and a Board meeting that day. You have before you the minutes. I think you received those in advance. Are there any comments, additions, deletions? Hearing none, I would recommend that we move those minutes. Is there a second?

WOMAN: Second.

MAN: Second.

SUE SWENSON: Thank you. All those in favor please signify by saying aye.

GROUP: Aye.

SUE SWENSON: Any oppositions? Abstentions? Minutes – those minutes are approved. And, Karen, I assume you'll make those available on our website. And then we had a meeting – a very important meeting - that took place on March the 28th where we approved the AT&T contract –

completion of the AT&T contract. So you have those minutes in front of you as well. Any comments? Hearing none I would move those minutes as well.

MAN: Second.

SUE SWENSON: Thank you. All those approving signify by saying aye.

GROUP: Aye.

SUE SWENSON: Any opposition or abstention? Great, we have that taken care of. So we got the administrative part of the meeting done. Now we can get to the real meat of it.Before we get into the presentations today we wanted to take a minute to recognize an individual who has been involved in, you know, this journey for public safety for quite a few years. And I'd like our Vice Chair, Chief Johnson, to take the honor.

JEFF JOHNSON: Thank you Madam Chair. I think if it does meet with your pleasure, I think I'll grab this and stand up.

SUE SWENSON: Walk down – yes.

JEFF JOHNSON: First, let me start this by inviting Chief Harlin McEwen to come up here and join us. And then when I'm done making the presentation I would love Madam Chair if you and Tom Sorley would join us for a photo.

This truly is in our circles a gentleman that needs no introduction. Chief Harlin McEwen has represented the IACP – the chiefs of police – for over 36 years. He was the original chairman and thought leader behind the public safety spectrum trust. I don't know how someone is as sharp as you are, Harlin, for as long as you are, but I just say I marvel at your ability to remember details and people and moments and with absolute clarity.

HARLIN MCEWEN: Your name is?

JEFF JOHNSON: Fred Meyer.

((Laughter))

The reason that we wanted to have Harlin up is because you lose these moments in time when you get these monumental achievements and milestones. A lot of people forget who thought of the race, who started the race, and who ran the first 15 years of the race. And, Harlin, that someone is you. And I know you're aware of that, but we want to recognize it. And when we got together, and we started thinking about the success of FirstNet and what this is going to do for public safety, I was very proud when staff – not only our staff at FirstNet, but the staff at – under Jeff Bratcher at the technical labs, etc. The name that came up unanimously was Harlin McEwen.

So it is our distinct honor and privilege, Harlin, to recognize you with the first ever, but perpetual, Harlin McEwen Public Safety Broadband Communications Award. Of which you, sir, are the first recipient. Yes, so on our behalf and on behalf of Chairwoman Swenson, the entire team here – most importantly public safety – thank you, Harlin, for your contributions.

((Applause))

SUE SWENSON: No, no, you go ahead. You go ahead. This is yours.

HARLIN MCEWEN: Well, this is a wonderful honor and an unexpected pleasure to be very honest. I mean I do cherish all those years of what I call trials and tribulations. I mean, they were not all fun, but there were days that were fun, and we thought, well, we've stepped ahead. And so this has been a great journey. I mean to be very honest with you, all of you are now in charge of the rest of that journey. So I mean you have a great responsibility, and I have every bit of confidence that you're going to do this and do it right, and I'm still going to be there to, you know, be behind the scenes supporting you, but I do appreciate the recognition from this particular Board and body because of all you do. So thank you very much.

JEFF JOHNSON: And, Tom, if you wouldn't mind coming up and Sue. I'd love to have a picture of the four of us. Mike, would you join us please?

((Crosstalk))

((Applause))

JEFF JOHNSON: So to that effect we have FirstNet Board Resolution 85. Harlin, I think this was just the next resolution in order. I don't think it was we're guessing your age or anything.

HARLIN MCEWEN: I haven't quite got there.

JEFF JOHNSON: Harlin and I have a running joke about his birthday is always during PSCR. I always give him a hard time that we have to get a fire permit for his birthday cake. Friends can do that. Harlin, so it's my pleasure to read – and Madam Chair – Board Resolution 85. Chief retired Harlin McEwen served for four consecutive terms as the inaugural PSAC Chair. Under Chief McEwen's leadership the PSAC submitted recommendations on identity and credential management, local control, priority and preemption, public safety grade – what that means – user equipment, user profiles, human factors, application and use cases, and eligible users.

They established the Early Builders Working Group and provided early builder and key learning conditions and lessons learned. They stood up an active Tribal Working Group for recommendations on tribal outreach, education, and comprehensive consultation strategies to ensure participation by tribal jurisdictions and network planning. Now therefore be resolved that FirstNet hereby extends its formal appreciation to Chief Harlin McEwen for his extraordinary expertise, experience, and leadership as the PSAC Chair.

And in honor of that extraordinary expertise, experience, and leadership hereby establishes the Harlin McEwen Public Safety Broadband Communications Award. Now therefore be it further resolved that the FirstNet Board hereby awards the Chief Harlin McEwen Public Safety Broadband Communications Award – the first ever – to Chief Harlin McEwen. Madam Chair?

SUE SWENSON: I'm delighted to move this resolution for adoption by the FirstNet Board.

MAN: Can we have a unanimous second?

SUE SWENSON: Yes, how about a unanimous second? Yeah, that's a good idea. We have a unanimous second, Harlin. All those in favor please signify by saying aye.

GROUP: Aye.

SUE SWENSON: And I'm sure there are no opposition or abstentions. Thank you very much. Congratulations, Harlin. Thanks very much.

JEFF JOHNSON: And it's now my pleasure – thank you, Madam Chair, for the ability to introduce our new PSAC chair, Tom Sorley, who is out of Houston, Texas. And has really been an impressive chair to follow on for Harlin. He was there for all the Harlin years at the PSAC. I called – we had a PSAC call the other day and I acknowledged how excellent I thought the San Antonio PSAC meeting was. So, Tom, great job picking up the baton and this sir is your leg.

TOM SORLEY: Thank you very much. Karen gave me the clicker so I'm going to see if I can actually successfully work it.

KAREN MILLER-KUWANA: It's not quite an award, but it is a clicker.

TOM SORLEY: But I did figure out how to turn it on. So thanks again for that – the kudos for the meeting. It was a lot of hard work by staff and others that really helped facilitate that. So it went really well. So I'll go ahead and start.

As you know, the PSAC operates three working groups. The Early Builders Working Group, the Tribal Working Group, and the Federal Working Group. The Tribal Working Group is chaired by Brian Howard from the National Congress of American Indians. They've – he's really hit the ground running as the chair of our Tribal Working Group and recently he was able to lead an effort to codify some changes – suggested edits, I should say, to the Tribal Consultation Policy and that was ratified by the Executive Committee and sent on to FirstNet for consideration.

We're also having our annual in-person meeting of that working group, July the 24th in Flagstaff, Arizona, in conjunction with another meeting there. So that's going really well.

Early Builders Working Group continues to meet monthly. That group is chaired by Todd Early from the State of Texas. Each of those projects continues to provide key learning conditions, especially as it relates to recent large sporting events, such as the Super Bowl that happened to be in Houston. So, I'm a little familiar with that one.

Additionally, we've been doing – that group has been doing-- a lot of work with Jeff Bratcher and his team to try out different things in their various projects and it's going really well.

Also, FirstNet and AT&T have begun discussions with the early builders regarding their assets and how to absorb those or not, and etc. So, they're developing – working in good partnership to come up with a plan forward for that transition.

The Federal Working Group is chaired by Kraig Moise from the U.S. Department of Homeland Security. He's with Customs and Border Protection. It's currently somewhat ad hoc because we've had a challenge in getting additional federal representatives on that group and so we're now crafting a new scope of work for them. Basically, that involves a lot of outreach to the regional offices and those sorts of things to ensure that the FirstNet message is getting where it needs to be for our federal users. Let's see if I can click again – yes.

So, we've recently concluded our most recent task team – actually it was yesterday, I believe. It's chaired by Chief Gary McCarraher from the International Association of Fire Chiefs. It is called the Adoption Task Team. And basically that group has four deliverables – one is key differentiators of the FirstNet network and as you see on the screen we developed a – staff helped us develop an info graphic that basically describes the key differentiators that we see in the FirstNet network versus a traditional cellular network. We also are developing a checklist – have developed, excuse me, a checklist that local agencies can use to look at things like their policies and those sorts of things. We have a report, obviously, that comes out of that and, lastly, we developed a small PowerPoint with talking points around each of the key differentiators in an effort for – especially PSAC members to be able to socialize those at their various meetings of their associations.

So that's going – right now all those deliverables have been sent to the larger PSAC for review and comment and we anticipate them going – moving forward to Jeff Bratcher and company, Rich, by the end of the month – next month, not this month. So last – one more time – yes.

Talked about the PSAC meeting June 15th. We had a really good meeting. I first would like to thank all the Board members that participated and attended. Most of them were there the entire day. It was a very good discussion. We had AT&T there to actually present some of the solutions – details – and we had a really healthy discussion around kind of the nuts and bolts about how was this really going to work. A lot of the PSAC members had good questions and I think at least AT&T – they talked about how beneficial they thought it was and they had homework to do afterwards. So I think all in all a really good job.

I want to, again, thank everyone that attended. We – our next meeting will be a webinar. We're looking tentatively at the last week of September for that. We haven't actually scheduled a date yet, but we'd love for you all to attend that as well and that concludes my updates. I'll be happy for questions if you have any.

SUE SWENSON: Great. Thank you, Tom. I was able to attend the PSAC session via phone. I wasn't able to be there in person, but I participated all day and I think I agree with you, Tom. I think it was good – really good discussion. I think it was very helpful particularly, I think, for the AT&T team. You know, they're really, I think, coming up to speed on the issues of – that are on people's minds. I think it was good healthy dialogue and I think they walked away with a real appreciation for the nuances. Because it's really – we're talking nuances here and I think I got the impression – I think you did too – that they're very committed to really being responsive to the group.

And I want to thank – I want to take the opportunity not only to thank you – and obviously Harlin – but now you in the hot seat for the PSAC Chair and also the entire PSAC. Because that's a dedicated group of people dedicated to this mission who put in a lot of personal time, you know, for the purpose of making sure we get this right. Because, like we said, this is public safety's network and without their input we wouldn't be where we are today. So thanks for that.

We – before we get on to the management presentations I want to provide a Governance Committee update. The Governance and Personnel Committee, along with NTIA, is reviewing submissions of interest – expressions of interest submitted in response to the Federal Register notice that went out in April. It's important to know that the review of those submissions have to take into consideration the legislation - the parameters in the legislation. Because this is not a come one come all.

You know, there's certain requirements that congress really felt that the Board should fulfill and we're continuing to do that. So, we will review those requisite skills and backgrounds to look to see which of the submissions actually could qualify for the Board seats that are currently open. And I think it's important also to notice – and I'm sure our two recent Board members will attest to this, but when we took Neil Cox and Ed Horowitz through the process we talked a lot about the commitment of time. Because this is not a meet once a quarter, kick the box and you're done. This requires real commitment and involvement and so we'll be looking for that ability of potential Board members to fulfill that commitment and also make sure that none of the Board members who have submitted a show of interest have any conflicts.

Because while there's a lot of terrific people out there as we've discovered as we've gone through previous years, you know, their current employment or consulting work or, you know, affiliations with certain organizations really limit their ability to actually serve on this Board.

So, it's a fairly rigorous process that we'll be going through with NTIA. The candidates that actually fulfill these requirements will have interviews scheduled in July with the committee and then we'll make those – make recommendations to NTIA, which will forward that to the

Secretary of Commerce because – actually it's the Secretary of Commerce who actually makes the Board appointments, and we're hoping to have that – all of that work completed by the time the time expires for the positions. We don't want to be in a situation where we're without Board members because there's plenty of work ahead for us. So that's a quick update on the Governance Committee. Are there any questions on that? Yes, Mr. McGinnis.

KEVIN MCGINNIS: Madam Chairman, the Board for good or for bad many years ago asked me to serve as the tribal liaison for the Board. So – and I've done this on a couple of occasions in the past. It is my duty therefore to make the following pitch.

SUE SWENSON: Okay.

KEVIN MCGINNIS: The legislation that created us – for all of the good that it's done us, has some flaws. We all recognize those. And a couple of those were the folks that were specifically included in the development of the network through our process. Feds were one – clearly. We have plenty of federal representation on the Board. However, tribes were another and we do not have really representation here. And so I do know that there are candidates – I know of candidates that will present themselves for open seats and I would just urge that everyone give them an eye. That's it.

SUE SWENSON: No, I appreciate that, Kevin. Like I said, you know, it's really important that people understand that, you know, we have to look at the entire Board and its makeup and the open positions have certain requirements. So, we have to take that into consideration, but I appreciate your input because we have a lot of terrific people who have expressed an interest in serving on the Board. I guess they think we're going to be around for a while because we used to get just, you know, a couple. Now we've got quite a show of interest. So, I guess people think we're going to be around and it's worth doing, which is actually encouraging and a good sign. But I appreciate your comment, Kevin. Thank you so much.

Our first management report today is going to be from our CFO, I believe – Kim Farington. And give us an update on what's happening in the world of finance at FirstNet.

KIM FARINGTON: Thank you, Sue, and good morning everyone. I want to begin this morning's finance update with our cumulative view of the fiscal year so far to date with regard to our obligations and expenses actuals compared to budgets. So, as you can see from this slide, if you look at the bar graph towards the bottom of the graph the blue bar represents our obligations year to date. As of May 31, our obligations were $44 million. The red bar next to that is our expenses to date and those are $53.8 million. Now you may notice that there is a new addition to this slide this quarter and those are the dashed lines.

If I could rewind for just a minute – back in September of 2016 when we actually proposed and approve this budget, we approved it at an $84 million obligations budget amount and the expenses were $118.4 million. When we built that budget and approved it, we based it on many assumptions, as you would expect. Well one major assumption – we are actually adjusting and

that is the award of the major NPSBN contract. We had originally assumed that that would occur earlier in Fiscal Year (FY) 17. So, knowing that, we had the delay in the contract award. We actually had a lot of the obligations and expenses that we anticipated hitting in earlier FY 17. Because of the delay they were delayed as well.

So, what we decided to do is actually rebaseline mid-session after we awarded the contract to make sure that the rest of the FY really focused on the realities of FirstNet for the remainder of the year.

So those dashed lines represent the rebaseline and as you can see, based on our rebaseline that $44 million in obligations year to date is only 90 – it's actually 96 percent of what we originally forecasted on that rebaseline. And with regard to expenses, that $53.8 million represents also 96 percent utilization compared to forecast under the rebaseline. So the rebaseline has been good for FirstNet, and we are really charging ahead as we anticipated now that we know our future.

SUE SWENSON: Hey, Kim, did the actual expenses have accruals in them?

KIM FARINGTON: We do include accruals in these – yes.

SUE SWENSON: Right, thank you.

KIM FARINGTON: Prior years we did not. That was a new process for us this year. But this year, yes, accruals are incorporated here.

SUE SWENSON: Excellent.

KIM FARINGTON: So just to explain some of the major deltas that you're seeing between our original budget that was approved in September of 2016 and today. It's basically due to deferred support because of the delay and also a lot of – some of our reductions are based on savings. As we recompeted contracts, we actually found where we were able to tighten our scope and really focus on savings through the competitive processes. With regard to the expense deltas we do, as you can see, have an expense delta related to spectrum relocation grants of $22 million. And that's basically because of the carryover that we've been talking about over the past few years. And we also have some other contracts where the expenses were expected to hit earlier in the FY and did not or carried over into FY 17.

MIKE POTH: I think one of the things I'd like to point out to the Board, especially relative to the competitive savings. That's as a direct result of our own procurement authority within our own shop. David Dasher's team took those contracts on and those procurements and were able to realize – basically he earned his keep for this year because that's about his annual budget. So, we'll let him stay for at least another month. The efficiency that we gained with the procurement officials – FirstNet procurement officials working directly with the operations teams to really define the scope and the requirements allowed, the private sector also can be very competitive in the bidding and the end result is a $2.8 million savings.

SUE SWENSON: Nice. Nice work.

MIKE POTH: Yep.

SUE SWENSON: Nice work.

KIM FARINGTON: So, Mike will be talking more about spectrum relocation grants later this morning, but just wanted to highlight that as one of the items related to that expense delta.

And talking about carryover, I will carry over that conversation to this next slide. This basically highlights some of the financial stewardship efficiencies that are ongoing within FirstNet. And I want to give a huge shout out to Toni Dyson-Moore of CFO, as well as Keri Gibson, who actually are responsible for this specific effort. They've actually been able to return – or what we call recover in government speak – nearly $10 million in funds from prior years - that carry over.

So, for example, say in FY 15 we awarded a contract – or had an agreement with one of our partners for $1 million, but we've only expensed $800 million – or $800,000 of that million dollars. That means that's $200,000 that's been carrying over year to year. What this team has done is actually looked at every single line of all that carryover and researched it, worked with our partners and actually was able to get – to close out those agreements and contracts, deobligate that extra $200,000, and actually put it back into the FirstNet big pot.

For most agencies, they would lose all that money. For us, because we are a 10-year appropriation, we can actually put it back into our pot. And the benefit to FirstNet is we can actually use this money that they've recovered or returned back to FirstNet. We can actually use it for future funding needs. So, represented by the little airplane at the top of that graph, it basically extends the FirstNet financial runway.

SUE SWENSON: I was wondering what that plane was for.

KIM FARINGTON: That's our financial runway.

SUE SWENSON: It's kind of like releasing a reserve that you would do, you know, in another business – right, if you had a reserve you would release it and make it available for use.

KIM FARINGTON: Exactly.

SUE SWENSON: Good.

KIM FARINGTON: Exactly. So, a lot of clean up going on – heroic effort, but it's well worth it.

SUE SWENSON: Just out of curiosity, how much is in that reserve now? How much is left that is obviously available for consideration?

KIM FARINGTON: We actually have about – we're starting back to FY 14. We cleaned up 12, 13 – working on 14 and 15 now.

SUE SWENSON: Okay.

KIM FARINGTON: I would say we have around – what we've identified as about $7 million more dollars to clean up, but it's not really necessarily clean up. It's looking at each of those individual lines – hundreds of lines and seeing are there – is there any activity and if there is not and hasn't been, can we deobligate and close those out? But most of our carryover is still active.

SUE SWENSON: Okay.

KIM FARINGTON: But it's just those older ones that we're really focusing on cleaning up. Because probability of them actually being active are rather low.

SUE SWENSON: Yeah, you have to wait until you get the completion of the original project before you can make that determination I presume.

MIKE POTH: Right.

KIM FARINGTON: Right.

MIKE POTH: Final invoices, final deliverables – that kind of thing.

SUE SWENSON: Okay.

MIKE POTH: This is FirstNet's version of going through the couch and getting all the loose change.

SUE SWENSON: Right, exactly.

JEFF JOHNSON: (Unintelligible) the airplane that looks like our money has been re-accommodated.

SUE SWENSON: Mike, is that going to be a line item in the budget for next year?

KIM FARINGTON: I hope not. If it is, it will go through our new Investment Review Board.

SUE SWENSON: Yes, exactly. It has to get through the Finance Committee first.

KIM FARINGTON: Right. So I've shared with you sort of the look back at our financial situation. I told you about present opportunities and efforts that are ongoing. Now I want to shift the focus as I close to looking forward and that is giving you a quick update on the strategic plan.

We are in the process of revising our five-year FirstNet enterprise-wide strategic plan, and we're really focusing this year on key performance indicators and measuring those KPIs – and measuring our performance. But it all is a continuous process.

We begin on the circle – I'll begin on the top right quadrant where we're taking our five-year plan, identifying our strategic goals and objectives and then making sure through that budget formulation process that we actually are aligning every budget item – every budget line item to support of those strategic goals and objectives. That then feeds the business unit operations. We make sure that those budgets actually for the business units support the resources they need to actually complete their operations and achieve the priorities set forth in those business units.

And then we're using that information to help us inform our investment decisions as we build out the network and reinvest into the network, this will become very important information that we'll need to consider – to identify those investment opportunities.

And then, lastly, but throughout the whole process is the performance measurements and making sure that we are measuring performance and adjusting our strategic goals and objectives and priorities based on those performance metrics. So, our plan is – from a timeline perspective – is to actually finalize the update or revision of the five year plan in July and then we're actually going to start monitoring our progress and performance and ultimately the successes of FirstNet and we'll definitely use new automated tools such as our cost accounting data analytics system to actually focus our efforts and analytics on our successes.

SUE SWENSON: It just seems to me that we're – you know, we're moving into a cycle time that is going to go a little bit faster. We're going to need more information more frequently about what's going on. Whether it's task orders and all the details around that. We'll talk about that a little bit later today, but I'd like Mike and the management team to really think about what are the things that you need to be paying attention to from an operating perspective and what's the frequency of that information?

You know, when you're in an operating mode you worry about it daily, not quarterly, or even monthly. And so I'd like the team to think of that and what would be appropriate for Board consumption at least on a monthly basis. Because I just think they're going to be some things that are more operationally minded and so I just ask you to give that some thought and then, you know, maybe bring that back, you know, for our consideration.

I also have a question about – as we move into the phase of, you know, instead of just having – being a cost center, we're going to have some revenue. And so I would imagine that you're thinking about that relative to what the P&L will look like on a go-forward basis. I assume that we'll be looking at that from a Finance Committee perspective?

KIM FARINGTON: Definitely. That is top priority for me as we're moving forward we're doing that manually – creating that P&L, but yes, that is definitely top of our list.

SUE SWENSON: Okay, great. And I think we'll be looking at budgets – what? In August or something?

MIKE POTH: Right. So for the FY 18 process the business units, you know, we always do a bottoms up – because we do have the luxury being a smaller group. So they're able to – they've completed their individual work. They just presented their recommendations to me and we'll start the process through July to refine those and then as in last year we're targeting that the Finance Committee will then start getting deep dives in August so that we can give briefings, which will include revenue projections based on some weighted assumptions that will happen with states that opt in during that FY 18 timespan and then we'll also then – or targeting the September Board meeting for the Finance Committee to have completed its work, come to a conclusion so that they're in a position to make a recommendation to the Board at our next quarterly Board meeting.

SUE SWENSON: Great. Yeah, we're moving into a new era aren't we?

MIKE POTH: Yes.

SUE SWENSON: Of reporting, which is exciting. Great. Any questions that the Board members have for Kim? Or Governor Douglas since you're the chair of our Finance.

JAMES DOUGLAS: Well just a couple of additional thoughts. I want to thank Kim for her great leadership at the CFO office, and I think we see it every meeting. A new enhancement that's made our operation more professional, more sophisticated, better prepared to handle the more complicated finances as we get into the deployment of our network. And she's been doing a great job. She mentioned the IRB and Mike mentioned revenue and at some point we'll activate the Board to make some decisions on how it can best support the network. Kim is also working on a new cost accounting system and data analytics process so that we have the information to which you referred, Madam Chairman, immediately at our finger tips as we move forward. Everything in government, of course, has an acronym. So this is the FirstNet repository for enterprise-wide decision-making – or FRED. I argued for management initiatives for key enterprises, but Mike, I was overruled.

MIKE POTH: It was a good try.

JAMES DOUGLAS: I was trying to look out for you. But I think it's going to be a useful tool for us, and we hope by the beginning of the fiscal year that that will be available. Another step Kim has taken recently may not sound significant in the scheme of things, but we're an independent authority and we want to make sure that we exercise that independence as appropriate. She's been able to establish at the Treasury Department a separate account for the receipt of gifts and bequests. So I assume all the Board members will remember FirstNet in your will – not that it will be an immediate (unintelligible), but we want to make sure we have that capability to accept gifts – and the point is it otherwise would have had to have gone through the

Commerce Department, but we have our own independent account now and so we're ready to receive it. So a lot of small steps that move us in the direction of what we need to accomplish.

KIM FARINGTON: Thank you, Governor.

SUE SWENSON: You know, Kim, one other thing – and maybe, Mike, this is a question for you as well, but as we think about the deployment of this network, you know, we have a – obviously AT&T, you know, won the contract, but they've got resources, we've got resources – how are you thinking about the future needs of the organization relative to how that all fits together? We're now going to – we're not one, but we need to think about it in totality, I think.

MIKE POTH: Right and that's part of the FY 18 process that we're doing.

SUE SWENSON: Okay.

MIKE POTH: As we go from, you know, the post-contract award then to post-state plans to implementation, supporting AT&T as they roll out, but also, you know, overseeing that activity and what does that footprint look like both from personnel standpoint and geographic dispersions and those types of things.

SUE SWENSON: Okay.

MIKE POTH: So those are some of the things – I don't want to say struggling, because the team has done a great job kind of articulating that and some of the information that we'll be bringing forward.

SUE SWENSON: Good. Good. Yes, there's going to be a different view of how things, you know, it won't be business as usual from a budgeting standpoint this year.

MIKE POTH: Absolutely and, as you noted, things will be moving...

SUE SWENSON: Quickly.

MIKE POTH: Quickly. And we're trying to make sure that we have bright lines that the Board can understand and absorb. We're looking at, you know, what's the right cadence, you know, and what's the right mix. Our current charters have a mix of both the Finance Committee and the Consultation and Outreach Committees have roles in the actual program implementation and where do we have opportunities. And even the Technology Committee where we bring those – instead of trying to brief three different committees on status on particular issues, is there a hybrid version that we should be…

SUE SWENSON: Thinking about.

MIKE POTH: And we'll be certainly bringing that to the Board for some deliberation.

15

SUE SWENSON: Good. I'm glad to hear that because obviously the Board needs to evolve just like management is evolving. So, you know, what worked for us the last couple of years may not be the model that we need to have going forward.

MIKE POTH: You know, the initial charters that were written years ago were pretty insightful with the forecasting of what the various responsibilities, but then we find ourselves – at least three committees have some standing in the actual program implementation and oversight of that.

SUE SWENSON: Right.

MIKE POTH: So, we're trying to figure out what's the best plan so that the Board is completely informed.

SUE SWENSON: Right.

MIKE POTH: More than just on a quarterly basis.

SUE SWENSON: Exactly. Well, good. I look forward to hearing about that. So, TJ, we go back a long way in terms of thinking about the strategic roadmap. As everybody knows, we did that back in 2014, but we came to the end of that road. So it was time to put together a new roadmap and so I think you have some updates – not only about the contract – and obviously not in excruciating detail, but some high-level and then an update on kind of the next phase of the journey we're on. So the floor is yours.

TJ KENNEDY: I do. Thank you, Madam Chair. I think it's fun to take a little look back at the road that got us to the AT&T contract, and I think it's important now that we're a couple of months into operations to kind of just highlight some of that. It's our first Board meeting since the award, and I just want to kind of walk through that a little bit and then we'll jump into the strategic roadmap, like you mentioned.

So on the left-hand side here you can see a bit about the RFP journey that we went down. And I think one of the things that – a great lesson learned and we've had a lot of requests across government for sharing, is how we went down a statement of objectives approach and the fact that that statement of objectives approach really resulted in a much better award at the end of the day than a lot of the other kinds of contracting approaches and attempts at a public-private partnership that many others have tried.

And I think that it's really important for us to remember too that even though we went down a statement of objectives, which was really how far will you go in these 16 objectives in getting to a great competition out of that, but that resulted in a performance work statement and a detailed contract that is enforceable throughout the life of our contract. And that's something that we now have, and I'm going to kind of highlight some of the big elements of that.

Also, I think it's important that even though most of – everyone who follows FirstNet followed the protest for the last few months that happened before an award. The reality is we still had – the key elements of discussion and negotiations to finalize the best contract we could, and I think that we really ended up with an amazing solution. And so I think that even though we had to go through that process it was very detailed. The court affirmed the great work done by the FirstNet team and the contracting team that was in place to do that. I think the end result was even better than we could have anticipated. And I think that was one of the unique things that came out of that objectives-based approach.

A good example of that, I think, is right at the beginning here is talking about spectrum. So, everybody knows that, you know, we came to the table with 20 megahertz of 700 megahertz spectrum. To both operate in and to leverage as part of that public-private partnership to have at least – to really build out, maintain, upgrade, and operate on this network for the next 25 years. The solution at the end of the day that we ended up with not only does that, but it also brought forward really two elements of the infrastructure that AT&T and their team brought to the table, which was the rest of the LTE spectrum and the rest of the assets of the network that already exist. That's really going to be baseline of what FirstNet and the FirstNet dedicated network will ride on top of. And this does really two things for us.

One, greatly increases the speed to deployment. It actually allows us to have the ability to have priority on the existing network after opt-ins over the next few months. It also gives us the ability to get to preemption before the end of the year, which just would not occur if we were building this from scratch. There's just no way to get to that kind of speed of deployment and to really put the network in people's hands that quickly.

The second thing is it gives us the ability to really leverage the focus on the rural build out on top of that existing network and to do that in a way that allows that to happen much sooner and not to have it drug out towards the back of the program, but every year throughout, which was one of the requirements of the RFP was that that rural build out would occur each year. And it allows folks to really be up on that network as that build out is occurring and having the network continue to grow, not just during the first five years, but even the future as things continue to grow and change.

I think one of the other unique things – and I think it was a really hard conundrum when many of you were involved in this set of discussions, was how do we get a device ecosystem that will support Band 14 but have the richness of all these devices that we're used to having. Having the ability to have Android devices, to have iOS devices, to have specialized public safety devices and not just to have two or three options, but to really have all the unique capabilities that we've come to know and love over the last ten years that are available to us in the consumer marketplace, but to get that Band 14 capability in all those same devices. And that was one of the harder objectives, I think, was getting that device ecosystem.

And I'm really excited at what the team has come up with both from the AT&T proposal, but also what ended up in the contract and what our team is driving to ensure happens – and we'll

talk about the timing and the strategic roadmap, but really we're going to have the ability for everyone on the public safety FirstNet network to have access to those public safety unique devices in addition to all the typical commercial devices that are very widespread when it comes to tablets and when it comes to smartphones and it comes to, you know, in vehicle repeaters and other capabilities that are there to really give tons of opportunity and competition.

And one of the unique things of the act – you know, the act calls out many places open standards and it calls out, you know, really trying to drive that open competitive market and that's something that I think we're really going to get in our device ecosystem and I think we're also going to get it in our applications ecosystem. As part of this contract, you know, there is a third party public safety dedicated applications store that is part of our solution. And that's really going to help us drive those open APIs and really ensure that there's competition when it comes to all the different elements of public safety and applications, which is really huge and that's a huge part of what we're doing and we'll be able to get access to the initial application store at IOC-1, which to us is that first capability that's delivered by September 30th of this year. So it's coming up pretty quickly.

SUE SWENSON: And what's IOC?

TJ KENNEDY: The interim operating capability.

SUE SWENSON: Okay.

TJ KENNEDY: Initial operating capability.

SUE SWENSON: Okay, thank you.

TJ KENNEDY: And September 30th is not that far away just a few months. So we're looking forward to that happening.

One of the other objectives that was really huge and had a lot of pages of backup material to go out with the RFP was cyber security. And we all know how important this is to day to day networks and we know how much we trust our wireless networks and our wired networks today to really pass important information and whether that's on a personal level and it's your banking information or it's on a government or a public safety level where we're very focused on protecting law enforcement information or medical information on the emergency medical services side.

We wanted to make sure that we got the best of the private sector practices while for the most part exceeding the typical government best practices within cyber security. And that is certainly what we have in this network. And really being able to leverage the network operations centers and the security operations centers that are already redundant and across the country to support commercial network today, but in addition, the specialized services and specialized personnel that will be dedicated to what FirstNet is doing on top of that. It does two things for us.

We don't spend a lot of time building a separate capability that has to catch up with what's already being done, and it also allows us to have the ability to have fallback if there was a major incident that not just our dedicated personnel, but they're also going to be co-located with the other person who are running the larger network. And those two things together create a lot of synergy, and I think really will bring public safety up to a level that is far and beyond what most of us are capable of providing today. It's exciting.

The public safety user adoption targets were a key part of our ability to make sure that not only do we get a great network in the beginning, but also that network continues to improve and evolve. And also that the focus on competitive pricing and competitive options and upgrading to the latest and greatest standards is something that will always be there. And, as you know, the Board and the team really worked to try to balance, you know, good incentives related to public safety adoption, but also making them rational so it ends up in a win-win deal so that it's affordable, and I think that this contract achieves that very much so and those public safety adoption targets are not just a nationwide target, but they're by state and they're by years.

So it's a good focus to make sure that the entire country – that both AT&T and their team and the FirstNet team are focused on every state in this country and the territories and the District of Columbia, you know, get the best services and solution.

Lots of good partnerships with rural telecom firms that are part of this solution. Ensuring that the build out gets to parts of the country and goes further than any network has to date and this is absolutely critical. There's also a number of elements in the contract that will certainly drive job creation as well as you discussed the P&L a little bit earlier and making sure that the revenues that are coming back in for the reinvestment are key to what we do. And that we drive a very lean operation that is allowed to focus on providing the best network possible to public safety and that all of the funds are reinvested for public safety. So that's quite huge.

One other element to just touch on here is in addition to the existing assets that are fixed assets, you know, both the network and the back haul and the cell sites and so forth, it's also access to the deployable and the reconstitution capabilities of AT&T and their partners. In addition to dedicated deployables for public safety to deal with the natural disasters and storms that we often have. I mean we had one of the first hurricanes come up through the Gulf Coast last week and when these kinds of instances happen, one of the things that FirstNet has made sure is part of this contract is we have dedicated personnel that will be deploying these assets, responding to public safety and have the ability for public safety to call one number and that will be customer support that is dedicated to public safety.

Answering the phone is FirstNet that will be able to respond to their need for those specialized assets. So really a very comprehensive approach to what public safety told us during the consultation effort and I believe that getting the input from all the states and territories into the RFP reading room, letting the bidders know what the states were expecting and really making

that a part of those terrific state plans that went out last week, I think has resulted in a very detailed contract and solution for FirstNet going forward.

SUE SWENSON: You know, the whole deployable technology is sure evolving in terms of how you get those assets, you know, to the incident. I mean, you know, when you think about the old deployables, you know, just the regular COWS, now you've got drones and all kinds of different things. I mean it was interesting at the SPOC meeting a couple of weeks ago in Dallas, you know, to see what AT&T is doing in the whole deployable area. I think it's pretty amazing and I'm sure that will evolve. Go ahead.

JEFF JOHNSON: Madam Chair, I think to your point – of course, you're spot on. I just want to make sure that staff is watching what's going on at the state level legislatively as it relates to drones. I noticed in the western states there's been attempts to limit commercial use of drones, etc., etc. I want to make sure we're focused on doing what we can to educate our partners at the state levels to exempt public safety use of drones if we have a commercial partner. I'd hate to see AT&T as our partner be limited for commercial drone use when they're actually doing it on behalf of public safety.

SUE SWENSON: Exactly.

JEFF JOHNSON: Because now we're going to get flying repeaters, etc., etc.

TJ KENNEDY: No, absolutely and at some recent law enforcement chief meetings and National Sheriff's Association meetings this was discussed actually and it was brought up that even though there have been some commercial drone issues, the reality is on the public safety side both for law enforcement, fire, and EMS use as well as the FirstNet network use, we need to have that capability and to our Chair's comments, I think it's very important that AT&T is leading the way and looking at, you know, cells on wings versus cells on wheels and having the ability that these aerial platforms can deploy much quicker when it goes to these kinds of natural disasters and especially when you have downed power lines and trees in the road and some of those kinds of things. It's sometimes hard to move on ground, and I think that we're going to see massive evolution over the next couple of years in what's going to be bringing the network to the incident and doing it by air.

So I just wanted to pause here on these objectives and kind of the history with the contract and just make sure that I've answered any kind of questions that you may have for anybody on the Board.

SUE SWENSON: Well, you kind of skipped over my favorite bullet and that is the customer service team dedicated to public safety.

TJ KENNEDY: Shame on me, Sue.

SUE SWENSON: I was wondering if you were going to come back to that. But, you know, that's a big deal for me and that's a big deal to public safety, and I think we've had a lot of discussion about the importance of you can't just put anybody in those jobs. You've got to have people who understand the public safety needs and can really understand that in an urgent fashion. So just any comments you want to make on that.

TJ KENNEDY: Absolutely. So beyond, you know, the branding and the capabilities it's really about delivering that customer service to public safety. And, like I mentioned earlier, you know, having the ability that there's one call to make and problems get solved and that there's follow-up and that there's tracking to make that happen. One of the things I can say I'm excited about and already seen with the AT&T team is they're already starting to train key personnel to do this and they're training them not just obviously on the key customer service and telecom aspects of it, but the public safety aspects.

And they're actually being trained on what's unique and different about FirstNet and then specifically law enforcement, fire, emergency medical services, and the key things that are happening in the field. And I'm glad to see that training because you mentioned earlier the nuance, and I think there's a lot of nuance when it comes to, you know, that call at 2:30 in the morning when there's a certain critical need and something is not working. It's not the same problem when one of us calls from our home with an issue. And I can tell you that the team is committed and is part of this contract to provide that public safety grade 24-7 public safety service. And not just on the phone line where certainly that's going to be there in the tiered response that will come with that - but also in the field. AT&T has been staffing up their field resources. Hundreds of key personnel across the country to do this and training them up with FirstNet's input on the public safety side. And also working with the FirstNet Chief Customer Officer team to make sure that we have a good check and balance out in the field and that that team's there if for any reason they're not getting the service that they believe they should be getting as part of the FirstNet delivery. That they have the key personnel at FirstNet, that they can reach out to and make sure that they're getting the kind of constant and factual and quick follow-up customer service that they deserve.

SUE SWENSON: Yes. Just an ad for those jobs. TJ Kennedy mentioned the jobs. There are lots of public safety jobs being opened up at AT&T, so I'm going to make a, like, a public service announcement. If you know anybody who is interested in joining that team, I think now is a real time to get in on the ground floor and they've got lots of opportunities, you know, to do that. I don't know if we have – where that information is easily accessible to people. I guess they would have to go on the AT&T site to find that, probably?

TJ KENNEDY: Yeah, the AT&T website for the new roles that they're posting and then our website has a link to any FirstNet roles that are out there and it links to the USA Jobs website.

SUE SWENSON: Okay. But there's lots of them out there so, if you know people who you know who are interested in kind of getting in on the ground floor, this would be a great time to

do it. So, my little public service announcement. Let's get those jobs filled so we can serve public safety. Right?

TJ KENNEDY: And we've seen a really key focus on that and a lot of new personnel and some familiar faces coming out of public safety. They've definitely been hiring some key resources that we all recognize and are well respected across the public safety world…

SUE SWENSON: Right.

TJ KENNEDY: …so it's been good.

SUE SWENSON: Good. Any questions from the Board on – I mean you guys have probably been very immersed in this so you probably don't have any, but any questions for you about that? Any comments, Mike, you want to make about that?

MIKE POTH: No. Well and I appreciate you plugging AT&T's jobs, but I want to remind, I love my FirstNet team, so I would like them not to go to AT&T.com or whatever it is.

SUE SWENSON: Well, you know, they have a few more that they're trying to fill, that's all I'm saying.

MIKE POTH: Yes.

SUE SWENSON: You're pretty well staffed the last time I heard.

MIKE POTH: Yes and I want to keep that staff. And I want to keep them happy.

SUE SWENSON: Okay.

MIKE POTH: So if any staff is listening, please disregard that. Thank you.

SUE SWENSON: Okay. Everybody knows how to apply for the FirstNet jobs. They didn't know how to do the other one. Well good. How about the roadmap? Are you ready to go to the roadmap?

TJ KENNEDY: Let's jump into the roadmap and into the details. So...

SUE SWENSON: That looks familiar.

TJ KENNEDY: …very familiar format here.

SUE SWENSON: Yeah, I like it.

TJ KENNEDY: So much like our original strategic roadmap, we are now laying out the next two years and as we talked about, I believe at the last meeting, it's kind of a rolling roadmap and we'll continue to update this as we go forward. And we use this internally for the team as well as externally for committing to the kinds of key milestones and deliverables that people can expect.

And I think that as we just saw with the State Plans rollout and the contract, it was a six-month deliverable to get to State Plans and both the AT&T and FirstNet teams working tirelessly together were able to do that in the mid-June timeframe, June 19th I think specifically. And it's really nice when we can beat those kinds of key deadlines and get the plans in the hands of the states so we can have the real conversations. And I think what's exciting about that - you can see the ability to have those State Plans delivered in June - has allowed for real conversations to go on across the country. And just in the last two weeks since this has been released, if we go from the beginning of last week to the end of this week, I believe there is 27 state meetings that are being held.

So a tremendous amount of canvassing of the country - and I believe all 50 plus states are actually scheduled now to have a meeting just in the next 30 to 40 days to make sure that everyone has a chance to ask the key questions about that detailed plan. And as you remember, that plan is actually being delivered through the portal. And, you know, we're a modern organization….

SUE SWENSON: Yes.

TJ KENNEDY: …here at FirstNet and we're not going to be, you know, shipping paper all over the place. And what's great about the portal as well, and I've spent a lot of time in it as it's been developed and presented, is it's very user friendly. You'll see it really acts in the way that we're use to interacting with the web today and it gives them the ability to really dive deep and to focus on, you know, what city and county, or what part of the state you're in and really see what's important to you and not just what's important at a state or a federal level and I think that's really important.

SUE SWENSON: I think you're right. I was actually, you know, when it launched, I actually went in and cruised around and it's very intuitive. So, very nice job on everybody's part to get that portal done.

TJ KENNEDY: And that's the same kind of feedback we've been receiving. I think we've had over 1600 people that have been accessing the portal across the country and a lot of good feedback that's it's easy to use. And I think Amanda and the team will dive into that a little bit deeper

SUE SWENSON: Right.

TJ KENNEDY: But, so we really, I think exceeded our timing on the State Plans and the State Plans portal and a terrific way to get that milestone behind us so that we can move forward. One

of the other unique things - and we talked about this a little bit on the last slide with contracts - is that priority service would be available immediately after opt-in and so we've kind of put a July 15th date that we suspect that would be the earliest anybody would probably be wanting, but we want to make sure that priority service is available and so that when people start getting that capability that we can deliver on that.

The Governor's 90-day decision clock, we all know from the Act how that's laid out. And so the latest we're seeing that would occur is in the September timeframe. Also, when I mentioned a little bit of this earlier that the device and application ecosystem will also be ready by September 30th of this year. And the FirstNet and AT&T deployables will be ready to start being a response effort by the end of September as well. And then the FY18 budget will be brought to the Board before then and certainly work with the Finance Committee but be able to be voted on in September so we can move into the fiscal year.

Going forward a number of other big things start to continue to happen. Obviously the opt-out, opt-in process will be completed. This will certainly give certainty to the amount of work that needs to be done if there are any opt-out states and to work through that and also to move forward with the deployment that would go on and the actual services that would be delivered in the opt-in states during that process.

During this time, we also expect little bit ahead of schedule in that the RFP we had laid out there for the pre-emption to be tied to the core delivery, which is in March of 18 or one year into the contract. But pre-emption is going to be offered about three months earlier than that because it's been asked for by public safety. And one of the very unique things about the FirstNet network is, public safety has always wanted priority and pre-emption. And there is no network today in the United States that delivers priority and pre-emption and this will be the first time that's available.

And I think public safety is really excited about, you know, having that certainty knowing that not only would they always be at the front of the line, but if for any reason the front of the line is crowded or it's too difficult to be able to get a bearing and get on that network that they will be able to have other users moved out of the way so that they will always have an ability to get through and I think this is so critical. It's one of the core tenets that was in the Act and I think that we're able to deliver it ahead of schedule. I think it's going to just be really important to public safety.

Jeff will dive into a little more detail in a few minutes about what's happening on the core network, but I think it's really important that the FirstNet core being completed in March of 18. This actually is another kind of pretty monumental milestone in that public safety will have a dedicated core network. And it's almost too hard to explain it in a few minutes how monumental that is when we look at the capabilities it's going to provide that are dedicated to public safety.

But it's also, you know, it's almost emotional in the sense that when people look down at their device and they look in the upper left-hand corner, you know, they're not necessarily seeing a carrier's name. They're only seeing FirstNet. And they'll be seeing that they are on their own

dedicated public safety network. And when I talk to police chiefs and fire chiefs and sheriffs and EMS chiefs and try to, you know, really talk about what the network will mean to them, you know, they really look at the device and they see FirstNet in that upper left-hand corner and they look at the ability that it's going to have priority.

It's going to have pre-emption 24/7, 365, nothing that they need to do to make that happen. No extra charge or special unique app they have to use to get priority and pre-emption. It just works. And that's what public safety wants. Just like when we have an emergency and you dial 911 and public safety responds, you want them to just be able to be there and have the tools and have the capabilities and to just work in what they need to do and that's what this network will do for them. And that it will also have access to the tools.

So applications in our case and the ability to use voice, video and data in ways they haven't always had and I think that, you know, having that dedicated public safety core network, and remember, this is the core network not just for opt-in states, but for opt-in and opt-out states, everyone will connect to that public safety core network to have that capability and I think it's so critical.

So Jeff will spend the next year doing nothing but talking about this. But I don't want to underemphasize how big and important that is.

JEFF BRATCHER: You just stole all my thunder.

TJ KENNEDY: No, I don't think so.

((Crosstalk))

SUE SWENSON: You don't have to do the presentation now.

TJ KENNEDY: He's got way more, but I'm excited about it. And I have to say, when we talked to technical folks in public safety across the country, they're excited about it. It's something that, there's one thing to ride on somebody else's network. There's something to have, you know, capabilities on a commercial network. But I think that having a dedicated Public Safety Core Network and, for instance, to have the higher-level security that encryption will provide to the core network and from the core network back to folks in the field. It's just something that's not offered in other ways and in…

SUE SWENSON: It's kind of a geek kind of thing, so it's okay.

TJ KENNEDY: …it's a big deal. All right, I'll stop talking about this. But, it's a big deal.

JEFF BRATCHER: Yes, oh really?

TJ KENNEDY: I think…

SUE SWENSON: It's okay. It's okay.

JEFF BRATCHER: As Mike said yesterday when we were prepping for this…

SUE SWENSON: Yes.

JEFF BRATCHER:…he said go full nerd when I talk this morning…

TJ KENNEDY: You haven't gotten me – gotten Jeff– warmed up yet.

SUE SWENSON: Okay. Well you warmed him up.

((Laughter))

TJ KENNEDY: So let's talk about June of 2018 which is, you know, only a year and a few months away. We'll start testing some key future features, like testing what's going to happen on mission-critical push-to-talk. And I think that's another exciting milestone for us. And we know that testing the capabilities that are in the Third Generation Partnership Project - 3GPP - standards for public safety services and mission-critical services that the one that's probably most exciting to folks is push-to-talk.

SUE SWENSON: Right.

TJ KENNEDY: And so we're going to spend the right time, not just with AT&T and the amazing testing they're going to do against those standards, but we're going to do independent validation and testing with our Boulder labs and really ensure that this is meeting the public safety grade needs of public safety in the United States. And I think that…

SUE SWENSON: Probably be testing with some of our own people maybe even some of the members of PSAC or something, I would imagine.

TJ KENNEDY: I'm sure we will find fun ways to do that.

SUE SWENSON: Yes.

TJ KENNEDY: And get them involved.

JEFF BRATCHER: Yes. That's a good idea.

TJ KENNEDY: Also, you're going to see the deployment of, obviously, Band 14 in addition to the other commercial bands that are out there. Happening at this time, in all the opt-in states, and the FirstNet Field Operations ramping up as part of that.

26

SUE SWENSON: You know, to me, this whole discussion of Band 14, almost becomes irrelevant at this point. It reminds me of the days of CDMA and TDMA. It's like cut - I mean the people who are the users really don't give a rat's ass. You know you don't. I mean it's like, "I don't care what band I'm on, does it work or not?" So it's kind of interesting, I mean I think we'll see ourselves not talking about that so much going forward.

TJ KENNEDY: No, I agree. I think Band 14 will start to not be part of the messaging when you look at the fact that having access to multiple bands and different bands provide different capabilities. As we know higher spectrum bands, you know, move video and higher density elements so much better…

SUE SWENSON: Right.

TJ KENNEDY: …than some of the lower Bands and we get some of the great rural coverage and other elements. And also, because of what we talked about, you know, even in the AT&T spectrum cache today, they're leveraging 700 and 800 plus our 700. And so it's not just the low-band capability that our spectrum brings to the table.

SUE SWENSON: Right.

JEFF JOHNSON: Chair.

SUE SWENSON: Go ahead.

JEFF JOHNSON: This brings up a couple points I want to just touch on. Number one, Jeff, thank you to you, your staff and at the FirstNet labs and the PSCR staff, because what this does is it gives independent validation that what our partners are going to do is actually in the best interests of public safety. It's been tested and it's proven. And the beautiful thing is, public safety knows it will not get thumbs up from you and your team or the PSCR team until it meets public safety grade and standards. I mean that is just a wonderful acknowledgement and checkmark.

Second thing is, this conversation about spectrum and whether it's Band 14. This gets all wrapped up into this as State Plans come out. Is this AT&T's network? Well early, but not, right? So it's a good time to say, so AT&T will roll this out on their network first. But that is not the FirstNet network per se. The FirstNet network is much larger and it leverages off the AT&T network. But it isn't the only - just the AT&T network. It is a much larger network. AT&T is building a network for FirstNet and it is FirstNet's network. And it is a much broader offering than just the Band 14 offering. Which I think is a very important factor because it adds tremendously to capacity when you add priority and pre-emption. Tremendous add to capacity. Yes, so, just want to thank you for that.

JEFF BRATCHER: Thank you.

JEFF JOHNSON: And just touch on that. Thank you.

SUE SWENSON: Good.

TJ KENNEDY: I was just out with Jeff's team last week in Boulder as well. And the team is really 100 percent ready for test equipment to come in to do that independent validation. And literally, they're 100 percent prepped to move right into that phase and I think it's going to be an exciting time.

I think the other thing that the team's working on, and I'm just going to highlight it at a high level right now, is whether you talk about applications or devices, but really driving this open ecosystem. I mean I cannot talk enough about the team's focus on open APIs and making sure that the applications and the capabilities that are going to ride on the network, are going to have that same kind of, you know, independent validation to ensure that they are going to meet public safety's needs from a security perspective, from an interoperability perspective. And really following what we had in the Act, which was, you know, telling us in multiple places to make sure this is a single nationwide interoperable network that will evolve with technology.

And that's one of the things that, if you remember, we did a lot of banging our head together. How do we evolve over the next 25 years? And how do we build that into an RFP? And how do we make sure that ends up in a contract? And I think we've really done a very good job of doing that certainly over the next five years and I think certainly predicting what's going to happen over the next 20 years after that. And when people, you know, we still get the question, "Well what about 5G?" You know, "What about these things that come in the future?" And I can tell you in our nationwide contract, we've built that in and we've built in that the capability and the funding mechanisms to make sure that as 5G is added into the network, you know, FirstNet will keep up with the latest commercial standards and will continue to grow as additional releases of those standards come forward.

And that's why I think you're going to see on here, you know, additional applications and the evolution and looking at, you know, continuing to improve security. It's an ongoing effort. And we'll continue with - to update the roadmap as we have specific new releases. So when we talk about instead of Release 13 of some of these mission-critical standards for 3GPP, going to Release 14 and 15, that will be added in as well.

There's a number of other elements on here. Looking at the integration with 911 and NextGen 911. Certainly a key element that, you know, FirstNet is very focused on getting information to public safety in the field and from public safety in the field to each other and back to the dispatch center. But we're also very excited about the evolution that's happening on the NextGen 911 side and how that should provide richer information from the public that can also be shared with public safety in the field. And that's going to really be a game changer.

Jeff's team is very focused on the dynamic quality priority and pre-emption implementation and this really gets to the public safety grade implementation of priority and pre-emption that is a key part of what we're doing. You can see some additional elements going into target connections.

This gets into user adoption when we get further out into March of 19 and every year you'll see this as part of the March time frame when we look at that annual. We'll be looking at a key adoption that's occurred across the country for public safety and making sure that meets our need.

But the most exciting element on this one is mission-critical push-to-talk available based on 3GPP standards. And what this means is that the technology -- the software and the hardware -- will be in place. It doesn't mean that everyone's going to just flip a switch and all of a sudden say, "This is perfect" or "This does everything that we need it to do." What they're going to do is they're going to have those capabilities and they're going to start utilizing that, you know, alongside the other mission-critical push-to-talk capabilities that they have. And really start to build trust in it, and test it, and use it in the ways operationally that they need to.

When a public safety agency decides that that mission-critical push-to-talk over LTE is good enough for them is really up to them, it's up to public safety to make that decision. What Jeff and the FirstNet team are going to do is validate that it's meeting the international standards, it's done in an open standards way and that it's meeting the tested capability. And, also, we're not going to go forward with it if it's not ready. We want to make sure it's ready for public safety and that they have the ability to bang on it in an operational capacity. That make sense?

SUE SWENSON: Yes.

TJ KENNEDY: And then lastly, I just want to kind of highlight the evolving network policy, so as part of the State Plans, you know the initial network policies were brought to the Board and are part of those State Plans. And those are, you know, a document in time. And network policies will continue to be evolved and certainly when we get back to the Act and having that one nationwide interoperable network. That means that these network policies have to work for all aspects of the network and everything that connects to it. So we expect these to grow over time and to be continually updated.

One last thing on there is location-based services. And this is something that is near and dear to most of public safety's heart and when we look at the fire service….

SUE SWENSON: That's Chief Jeffrey Johnson.

TJ KENNEDY: …I'm sure Chief Johnson can comment on how important it's going to be to be able to locate firefighters and other personnel on every aspect of a building. Whether we go into the subterranean component, which is hard to d,o or we get into high rise buildings and being able to find personnel. And this is really a big driver of the location-based services. And I think that the public will also benefit greatly from the advances that public safety is going to push into this.

So, I think this is an important lesson. And I think on the public side that, you know -- whether you're trying to find your iPhone, whether you're trying to locate your spouse or your children

because you can't find them in a crowded parking lot or whatever -- the reality is at the end of the day, that the important need is to save the lives of firefighters, paramedics and citizens in homes that when these rescues are going on and being able to really precisely locate where folks are at.

I think we'll have not just a public safety benefit, but a consumer benefit as well. So I really encourage the technology companies paying attention today to focus on solving this problem for public safety because it's good for their business as well.

JEFF JOHNSON: Yes, TJ, I just don't think we can get that streeted fast enough.

SUE SWENSON: Yes, I know.

JEFF JOHNSON: You know, I think if you look at all the differentiators that are on the street, location services is probably the number one thing public safety is looking for. You know, I mean the rest of it can get lost. A lot of them have pretty reliable networks right now unless something is going wrong. But the location-based services has got to be the top feature that people are looking for. That plus the app store, etc. But that's fantastic. And whatever we can do to step on the throttle of accelerating Z axis is pretty important.

TJ KENNEDY: Everybody wants to have that 3D location capability and it's just something, we know we're driving. And I know everybody on Jeff's team is driving. And every time we meet with the technology community, we're pushing…

JEFF BRATCHER: R&D.

TJ KENNEDY: …yes. A lot of the R&D funding - that's a good point. We should highlight that. You know, as part of the FirstNet Act, there was about $300 million set aside for Public Safety Communication Research partners out in Boulder to really drive that innovation. And I've got to tell you, Dereck and the team - we just got done with PSCR, it's always an exciting time - and the first $30 million or so of those key challenge grants and the real elements that drive technology and where it's going, you know, was a huge part of that and location-based services. A number of the solutions that were funded have really futuristic capabilities on location-based services and are really pushing those limits.

SUE SWENSON: Well it seems to me, I mean everything I see, is that it's moving along quite briskly because there's so much interest in it. So, meanwhile we have it on the roadmap here. I think whenever it's ready is when, I mean, if it….

TJ KENNEDY: Absolutely.

SUE SWENSON: …happens before, it'll move up in the roadmap. So that doesn't necessarily mean we're going to do it right there.

TJ KENNEDY: We're certainly not going to slow down for it, but…

SUE SWENSON: Yes, exactly. We're not going to say "Whoa, not doing it until then," right?

TJ KENNEDY: Right. But we do want to really push that we want it to be standards based as well and make sure that we drive that it's open. So we've given the appropriate time I think to allow that to happen. But at the same point we'll bring things forward and just like we did with State Plans, is if we can beat these expectations we will. But as you know I think we all like to hold ourselves and hold the team accountable to some measurable results and this gives us a great way to do that.

SUE SWENSON: Right. Good. Go ahead.

JEFF JOHNSON: And TJ, just so everyone is clear on it contractually, when is AT&T required to provide the Z axis in terms of location-based services? And how well does that sync with our tech team's resolution on which approach we're going to take?

TJ KENNEDY: So, I'm going to turn to Jeff. I know he has a number of elements in the mission-critical services on the timing.

JEFF BRATCHER: So, great question, Jeff. So March 2019 was the first one with mission-critical push-to-talk. I think following the year after that is when the additional services come into play for the contract as well. So this aligns with the timeline TJ is sharing here. But we're already starting those discussions with AT&T on the requirements and how we drive this into the network now. And leveraging the investments that were just announced in the R&D programs is pulling this, you know, faster. How can we pull it in and get it going sooner than that? So we're working all that in parallel with the three different groups.

JEFF JOHNSON: And contractually?

JEFF BRATCHER: And it's in the contract as well for mission-critical services as we deploy.

((Crosstalk)):

JEFF JOHNSON: Yes, but I think. That's what I was wondering.

SUE SWENSON: It's like five years or something.

JEFF JOHNSON: I think it's further out.

JEFF BRATCHER: Yes, with the final operating condition…

SUE SWENSON: But no later than, it's a no later than date.

JEFF BRATCHER: Yes, no later than the FOC, which is five years.

TJ KENNEDY: That's right.

JEFF JOHNSON: Thank you.

SUE SWENSON: Okay. Kevin.

KEVIN MCGINNIS: Well just building on Jeff's comment. We need to - it may be five years out - but, I mean it's, to be started now and for components to be put into the system now to make sure that we achieve that and help AT&T achieve that. We can't wait till four years from now and then decide that it's not doable.

We have, we've talked a bit about the integration of enhanced or NG911 and what we do and I'm - total proponent of that - I see the end to end network starts with 911 and ends with us and goes back and forth from machine to machine. From crash – automatic crash notification - of cars that needs to come on to my device as I'm leaving the barn and in my ambulance with no intervention and very quickly.

The problem that we have now is that there is a drag on the other end. I've been involved in the location-based 911 accuracy discussions now for quite some time and it is being dragged down. And it is going to be a difficulty for us that we - we need to be very proactive here from our end of dragging it back up. So, with that in mind that's a challenge.

TJ KENNEDY: Very helpful, Kevin. I agree and think it's important. And to Jeff's point and Sue's, I think it's very important, too, that, you know, we want to enable this to happen faster.

SUE SWENSON: Oh. Always.

TJ KENNEDY: So even if we look at a contract element being a few years out - just like we've done all along - the sooner that we can provide an open standards-based solution, we're going to drive that and make it happen and…

SUE SWENSON: Yes.

TJ KENNEDY: …look forward, at future Board meetings, talking about some of those advancements coming sooner.

SUE SWENSON: Yes. When have I ever said let's go slower?

TJ KENNEDY: Never.

((Crosstalk))

SUE SWENSON: Let's slow this down. Going too fast.

TJ KENNEDY: Is it done yet?

SUE SWENSON: No, that's great. I appreciate the roadmap - strategic roadmap - and I think it's served us well in the past, not only for us, that we stay on track obviously with AT&T. But I think externally, it's actually helpful as well so people know kind of what to expect because everything we're doing is new. And so I appreciate the team putting that together so that we can keep ourselves honest on that. Great.

TJ KENNEDY: Great teamwork.

SUE SWENSON: And now to the less, really kind of sexy part of the program. We're going to the nuts and bolts, Steve Fletcher, in our Network Program.

JEFF JOHNSON: Nothing personal.

SUE SWENSON: You know.

STEVE FLETCHER: I didn't know that you felt that way about me.

SUE SWENSON: You know, I mean this is the part, you know, it's kind of like people always say, "You know well customer service is like part of back room." And it's like, I get so offended when I hear that because it's so important. And I joke about this a little bit because I think this - the program office - is probably in that category as well. But without a program office, none of this great stuff ever happens. So it's the nuts and bolts but you know, you're kind of like, in the shadows. But we're pleased to be able to give you the opportunity to give us an update on what's happening in your world because without the work that you're doing and the work of this office, we wouldn't be accomplishing what we're doing. So, Steve, the floor is yours. With that introduction, I…

STEVE FLETCHER: Thank you. I'm not sure how I can make it more sexy. Maybe with pictures.

SUE SWENSON: Always with pictures.

STEVE FLETCHER: So, TJ talked about the road to get to the contract. And he talked about some of the details in the contract. I think that as we got closer to March 30th, that was a significant date for FirstNet. Cause we transitioned from all the planning activities to now execution. And everybody had to kind of change their focus on how they approached it. So it was really, really an exciting day.

And the first thing that we did after we awarded the contract, we put three task orders in place so that we could execute. But we brought both of the teams together. We brought the AT&T team

33

together. We brought the FirstNet team together. And we talked about it from the standpoint of kickoff, kickoff, kickoff activities. Those activities went for a solid two weeks and it was kind of like there was a whole lot of pent up demand that everybody wanted to share their ideas. They wanted to get together. The first time we had got to look across the table from each other and look at all the great ideas that we had thought about. That AT&T had thought about. And to try and put that in place.

And we had wonderful discussions with AT&T and as a matter of fact, it was hard to get everybody to leave the room after we started these discussions because we talked about the core design, the public safety services. We talked about how we're going to administer the contract. How we're going to pair up with all of our associated teams. We talked about security. We talked about go to market strategies. We talked about all of the coverage for the nationwide network. How we were going to optimize that. How – what was the customer service experience going to be like. So, it was great to have all of these topics identified. Bring the experts from both organizations and continue those talks. So, it was really an exciting time.

It's kind of geeky, but nevertheless, it was really exciting because everybody now had a chance to say, "Yes, let's – how are we going to go forward?" And part of the - that kickoff activity was to make sure that we were all aligned how we were going forward. And specifically, we were tasked to make sure that we were aligned as far as the contract. As far as how we were going to administer it. How we were going to manage all these activities associated with this network. So, that was great.

One of the first things that we put in place is we put a contract administration plan in place. And this is – TJ touched on some of these activities - but this is a very, very complex contract. I mean there are lots and lots of activities that are going to take place. We have 82 separate deliverables that are in place every year. Some of these are due on an annual basis. Some are due on a quarterly basis. Some are due on a monthly basis. So, there are some months that we have over 45 deliverables that we have to review, approve, and get out. That's an amazing…

SUE SWENSON: Nontrivial.

STEVE FLETCHER: …it's a nontrivial task and we need to make sure that we are aware of it, that we are postured to be able to approve it because we don't want to slow the work down. But we have to go through and make sure that we administer this contract properly. So that was another thing that we put in place. How are we going to react? What is the process for reviewing and accepting these deliverables as they come forward?

The other thing that we did during this kickoff period is we now operationalized our organization as we presented it previously. How we are going to organize ourselves with task teams. How we are going to go forward with the experts from all of our organization. And how we are going to pair them off with the AT&T folks. So we organized ourselves, AT&T organized themselves and so that we could work together on the particular areas.

We have task teams around the core, around the State Plans and so forth. So that we were all unified until we get all the resources of AT&T, as well as all the resources of FirstNet to go forward. And we established those working relationships.

In the first 30 days we had a number of deliverables that were due. We looked at the business continuity and disaster recovery plan. We had deliverables for the contract resource management plan. We looked at the coverage and population capacity maps. We looked at the preliminary core design. And we had delivered an IMS with the work breakdown structures. So those were all pieces that we had to put in place in the first 30 days.

So this was - basically it's the nuts and bolts, as you say, blocking and tackling, in order to put this contract to go forward, but also all the activities associated with rolling out this huge network. Trying to put some structure and process around that. And that's really what we were trying to do in the first 30 days is to establish that.

SUE SWENSON: What's the biggest challenge that you've encountered, you know, getting this stuff going? Obviously, this is, you know it's a big shift in terms of urgency and I mean - the devil's in the detail - in this part of the business, right? So what are the biggest challenges you've had to overcome at this stage of the program?

STEVE FLETCHER: Well, I think there was – we had to look at how we're going to match up with all the people. Both their folks and our folks and we also had to recognize that, I mean, this isn't a knock on the contractor, but until the contract was signed, they couldn't hire all the resources that they needed, right?

SUE SWENSON: Right. Right.

STEVE FLETCHER: Because they can't just have them sitting on the bench.

SUE SWENSON: Right.

STEVE FLETCHER: And because we had this protracted protest.

SUE SWENSON: Right.

STEVE FLETCHER: They - while they were prepared - they have done a tremendous amount of work for the State Plans and putting that together. A lot of their other folks, the day-to-day operation, the program management team, they were not in place. They were maybe elsewhere in the organization, but they had to bring them in. They had to get them and bringing them up to speed on what is FirstNet. You know, how do we operate within AT&T and within the FirstNet operating office. That took a little bit of time. And so you had to train them. You had to get them up to speed and so forth. And that was – it's that surge process that we had to get everybody up to speed and get aligned and coordinated. And I think that that was – I think everybody didn't –

everybody realized it was going to be a huge problem or a huge process. Maybe that's just a better way to do it.

SUE SWENSON: Right.

STEVE FLETCHER: Say it. But it was – it was enormous. I mean there was a lot of just getting up to speed establishing the process, establishing the cadence of how we reported, how we provided the information. And establishing those procedures. I know that Brian will probably tell you a lot about just the amount of information to put into the State Plans, to make sure that that's reviewed, that's it's the proper content and going forward for all the information that's in that portal, is massive. I mean – because you're talking about 56 states and territories. You're talking about all their coverage maps. You're talking about all the capacities and capabilities. And that all has to be in there with the proper documents to go forward. So it's just – it's just a huge task – is to go forward.

SUE SWENSON: So going forward, I mean obviously that kind of a startup and kind of getting together. What are the things that we need to be mindful of going forward? Cause this is – this program office will need to be in place for literally the life of the contract. Correct, Mike?

MIKE POTH: Yes.

SUE SWENSON: I mean, so it's got to be in place. So what do we need to be mindful of, of this part of the organization going forward? Cause this is just, you know, this is like muscling through things, right? I mean.

MIKE POTH: Well, and I think the level of complexity is going to increase, so we have to scale up to the maximum right now to be able to – even though it's not at that capacity, I think that the next couple of slides can…

SUE SWENSON: Okay.

MIKE POTH: …kind of demonstrate what you can expect in the way of cadence.

SUE SWENSON: Okay.

MIKE POTH: You know, in 90 day chunks.

SUE SWENSON: Okay.

MIKE POTH: So right now the program office is focused on making sure that we have the infrastructure in place so as we get 56 plates spinning…

SUE SWENSON: Yes.

MIKE POTH: …in various stages of doneness…

SUE SWENSON: Right.

MIKE POTH: …that we're able to track and move things along.

SUE SWENSON: Yes, because you'll all be in different stages.

MIKE POTH: Correct. I mean they won't be able to start all of them on the same day and finish all on the same day, so.

SUE SWENSON: Right. Okay.

MIKE POTH: There's going to be a level of complexity to support and monitor how those things – and work with AT&T to troubleshoot and resolve problems…

SUE SWENSON: Because you're going to have issues along the way, right?

MIKE POTH: Absolutely. Although we're striving for perfection…

SUE SWENSON: I know.

MIKE POTH: …we're anticipating a couple of bumps.

SUE SWENSON: But you're not going to let that get in the way of good.

MIKE POTH: No. Absolutely not.

STEVE FLETCHER: And I think to Mike's point, we have to be able to surge. Because as I said, some months we have 45 deliverables, other months we only have maybe 10 deliverables. We - depending on how the State Plan construction goes - we have to surge up or down depending on that. So, we have to be positioned with contract support or other support in order to be able to surge according to what the demands are and what things are being rolled out. So to Mike's point, yes, it's very complex and there's cycles that we're going to go through.

MIKE POTH: You know, our biggest role is to make sure and facilitate AT&T's successful execution. I often use the analogy of, you know, the highway project work where you see ten people with reflective vests staring at one person working. That's not what we're going to do.

SUE SWENSON: Okay.

MIKE POTH: But we're also going to make sure that the person that's working is getting all the tools and information to move quickly and that we work with the partner to resolve some of those problems, but there is a – the contract is our blueprint and we will be following that.

SUE SWENSON: Okay.

STEVE FLETCHER: And one of the things that we did establish is – and that is the program management review and we do this on a monthly basis with the senior leadership of both AT&T and FirstNet and we – it gives us an opportunity to look at progress status, as well as any issues that we need to look at from an enterprise perspective.

A couple of key events that we participated in with AT&T. It was great, they hosted us at their Global Network Operations Center. It was great to see that. We had a cyber security Board meeting or Board briefing that a lot of you participated in. We had a couple of program management reviews in May and one in June. So, we were kicking – as we were kicking that off – we looked at the – we had a critical design review meeting in Boulder. Jeff hosted us out there. We – down in Dallas – we had a national State Plan kickoff meeting, which a lot of the Board members attended. And then one of the great things that we accomplished in the first 90 days was the State Plan released on June 19th. I mean that was – it was amazing to see the amount of work that went into that. I don't think Brian slept in probably…

JEFF BRATCHER: He still hasn't.

STEVE FLETCHER: …probably three months prior to that.

SUE SWENSON: That was an amazing accomplishment.

STEVE FLETCHER: It was truly – the amount of work – the volume of work that went out was truly amazing. So just to give you a little bit of an understanding about where we're going to be going in the next 90 days. Obviously, we will continue with the activities for the oversight of the contract. Tracking with our IMS and all of those activities. The first task order is the state plan portal. We have put that in place and that is coming. It is finishing up for the portal and there will probably be a payment request because they will have completed their work on that.

The Task Order number two was to deliver State Plans so - and that's the delivery of the State Plans and all the way through to the – to providing information and so forth for the states and territories to make their decision.

Task three focuses around the core. It's to do the design of the core. It is to identify the public safety features that are going to be associated with that and it's also identifying the ecosystem of devices and applications that's going to be put in place.

So Task Order number one, the – it's going to be due at the end of June. Task Order 2 and 3 will be due at the end of September. And then the other thing that we will be doing is we will be putting in another task order. Task Order 4, which is the construction of the RAN for all the states.

And so it will be construction of a RAN by AT&T or a state may choose to construct their own RAN. But we still have activities we have to monitor. We have to interconnect and so forth. So Task Order 4 will be associated with that. We have to have that in place before we can have a governor's decision that takes place. So this has got to be ready and available so when a governor makes his decision that we will be ready to go forward with that activity.

And then just a quick snapshot of the key milestones. You can see a lot of the checks that have been put in place. Those are activities that are completed. And so, to note some of the key dates here is - as we're going forward - we'll look at IOC1 for Task Order 1. That's at the end of June which would be a potential payment to AT&T for their work on delivering of the state portal.

We have one in September, if you look, and that's when the State Plans will be delivered. It's also some of the core activities that are associated with Task Order 3 that are going to be delivered at that time also.

And obviously, we are gearing up toward the last milestone there, which is the governor's decision. By the end of December, all states should have been determined what they – how they are going to go forward with building the state RAN. And so that's another one that we are focusing on and gearing up towards, in that regard.

SUE SWENSON: And I'm assuming that AT&T – I mean, this is a joint kind of schedule that we're working on, obviously, so.

STEVE FLETCHER: Yes. They are…..

SUE SWENSON: Tracking. They obviously – if they want to get paid.

STEVE FLETCHER: …they are very interested in this schedule because that is exactly how they get paid.

SUE SWENSON: Okay. Well that's what makes this contract work.

MIKE POTH: So the IMS, or Integrated Master Schedule is thousands of dollars and so Steve's organization works with AT&T to track it.

SUE SWENSON: Yes.

MIKE POTH: Our vision is that, you know, for the Board purposes, we roll up the bigger events and you'll see this kind of thing. Obviously, the roadmap is even a lot…

SUE SWENSON: I know. But.

MIKE POTH: …higher. But this is a kind of a snapshot of, you know, the next six to eight months with specific things…

SUE SWENSON: Okay.

MIKE POTH: …that are significant events and the program schedule that the Board, through a designation of checkmarks or not, and we're not so naïve to think that our line will always have – there may be a time where…

SUE SWENSON: They're yellow.

MIKE POTH: …a checkmark doesn't…

SUE SWENSON: Happen.

MIKE POTH: …doesn't happen. For whatever reason this is a kind of a heads up display for the Board to get a quick visual as to where we are in the more tactical portions of the program.

SUE SWENSON: But if we have amnesia, you'd give us the total I'm asked to review.

MIKE POTH: Yes. Yes, if you wanted to.

SUE SWENSON: Insomnia, I mean.

MIKE POTH: Right.

SUE SWENSON: And amnesia. You'd want amnesia. That's it Steve?

STEVE FLETCHER: Are there any other questions?

SUE SWENSON: Any questions? So we're going to move on to our CTO, Jeff Bratcher, but I just want to remind people that one of our key responsibilities for FirstNet was to develop a set of network policies. Obviously, this is to ensure that everyone conforms to a common standard so that you all drive on the right side of the road, you – you know, you turn your turn indicator on and obviously in a technology world, this is pretty standard stuff is to have policies and that everybody conforms and it all works together. The charters of the Technology Committee and the Outreach required that committees review these policies, which they have. And make recommendations to management on anything that thought should be modified.

Just to recall for everybody that process started in January. And we also had a briefing to the Board and also the Outreach and Consultation Committee following up with the March briefing and also of the Technology Committee. So, Jeff is really just going to update us today on where we are in a couple of key technology areas, including network policies. So you're into your full nerd suit?

JEFF BRATCHER: I am, I am. Full nerd ready. So thank you Madam Chair, thank you Board members. If I could just take a second, if you'll indulge me. This maybe the last time I can

publicly thank Harlin McEwen for his efforts over the last 13, 14 years that I have known Harlin. Most of my technical team - I think they're watching today – most of them did have the pleasure of being what I term "Harlinized" when they bring up technical ideas that Harlin says, "That makes no sense for public safety, please go back to the drawing Board." So, Tom, I will develop a term for you as you move into the new chair role. It will take me a little time, but we'll come up with something that fits that as well. But again…

((Crosstalk))

There you go. So again, thank you, Harlin. So, I want to start off, TJ touched on this as well as Steve in their updates, on the Core Network design and what we've been doing since contract award. We had a preliminary and a critical design review, so the preliminary was really that second week of kickoff and then we hosted a three-day meeting in Boulder with the AT&T technical teams and the NPO and CTO teams to review the critical design of the nationwide Core Network.

So as we outlined in our objectives, a dedicated Core Network that Chief Johnson mentioned earlier and what this brings for public safety. Not only did they meet the objectives, they actually exceeded the objectives. What they are building for the FirstNet network will be a fully geographic redundant dedicated core, along with the fully geographically redundant AT&T commercial core. This is the first of the wireless industry. You're going to have two cores. Should something happen on one, there is a whole other core system as a fallback. So this is a fantastic approach--resiliency and redundancy for public safety and this critical network. So we're very pleased with that.

Ability to quickly increase the capacity – network capacity – under adverse conditions. Being able to turn up and add additional capabilities through this Core Network is going to be critical moving forward. Extending the public safety reach with the global roaming partnerships that AT&T has as well, as we look to Canada and some of the other countries that are going to be putting in public safety LTE, AT&T has those in place. This dedicated FirstNet core is also future proof. It's going to lay the foundation for those mission-critical services that we talked about earlier. That's what this core is focused on.

Whether you're deploying – whether AT&T is deploying the RAN or an opt-out state deploys their own RAN, this will be the driver of those mission-critical services for public safety. So that is seamless across the United States. There is no difference in service where you're at within the country.

It also is leveraging the latest technology as far as virtualization. So there is a big push in the wireless industry and wireline industry to move to virtualized elements versus dedicated hardware specific elements. AT&T's leading that within the wireless industry as well. We'll take advantage of those benefits for public safety and that will lead to quicker introduction of services and capabilities in the future as well.

And then again, as we've mentioned several times, the comprehensive implementation of quality of service, priority, and pre-emption. And again, not just Band 14, across all the AT&T commercial LTE bands, by the end of this calendar year and then as we start adding Band 14 next calendar year. So that's a key feature and a key tenet. At the PSAC meeting, I stressed this as well, not only is it the 20 megahertz highway that we've talked about, we now have upwards of 100 megahertz of highway in most markets that AT&T serves today for public safety to leverage that capacity.

So Madam Chair, as you mentioned earlier, we have been working heavily and closely with AT&T on the network policy documents. Those were developed. We had an initial set that we shared with the two different committees. We've also now been working with AT&T on that initial set of network policies. And on June 19th, with the release of the State Plans, we actually made those available in the governor's decision portion of the State Plan portals as well so that these states understand what these network policies will entail.

We're continuing the work with AT&T on some of the detailed supporting materials. Our policies reference other documents that AT&T's is responsible for. They are finalizing those now. And we'll be updating those over the next month or so and get those finalized into the State Plan portal. I'll pause and ask if there are any questions on this before moving on. But I think we're in a great place with the network policies now.

SUE SWENSON: We're in good shape.

NEIL COX: Yes. I would just like to make a comment. Jeff, thanks to your team.

JEFF BRATCHER: Sure.

NEIL COX: I know we had some questions on the Technology Committee and with response to those questions everything was resolved. We really appreciate your work on that.

JEFF BRATCHER: Great. Thank you, Mr. Chairman. So cyber security activities. As mentioned earlier as well we've taken cyber security very seriously for this. Not only did we work across federal agencies, DHS, DOE, NIST, to develop our approach for the RFP, we actually went out to industry with our draft Appendix for Cyber Security and asked industry for feedback and comments on our draft…

((Crosstalk))

JEFF BRATCHER: …Appendix J10. And then that was finalized and put in the RFP. AT&T is definitely stepping up to the bat – stepping up to bat - to meet this and exceed it in all capabilities.

As Steve mentioned, we did tour in brief the Global Network Operations Center and that's the actual picture you see here on the slide. That is looking down from the balcony on their Global

Network Op Center. That's over 140 different screens of data that they monitor 24/7, 365, within this Network Operations Center. It's a very impressive facility. It also houses the Security Operations Center and AT&T is standing up a Dedicated Security Operations Center for FirstNet and the NPSBN as well that will run in parallel to their Global Security Operations Center. So we have a dedicated SOC for that moving forward.

Some of the key focus areas for cyber security that AT&T is going to do moving forward. Obviously Enhanced Network Security, the identity credentialing and access management capabilities and the security that goes with those. This will be a U.S.-based care and dedicated with the geographically redundant Security Operations Center. This is a primary one. They also have other backup facilities across the country should something happen at their primary centers.

Applications security will be a big driver as well as the evolution and maturing as we get to Internet of Things and other capabilities within the network that we'll want to play and have a close security posture on.

So where are we at with the verification plan? We've had a lot of discussions. We briefed the Board with AT&T and developed our verification and validation plan moving forward for the cyber security aspects. This outlines some of our upcoming milestones and contract deliverables.

We're working with AT&T to finalize our Quality Assurance and Surveillance Plan for cyber security and what those deliverables will actually look like. And that's targeted for next month - our target completion date - for our Verification Program, so that's the FirstNet responsibility on how we will validate what they are doing in cyber security. And we're working that with the Department of Commerce CIO as well to have that in place by the October timeframe. And we plan to actually brief in the August or September timeframe to the Board where we're at based on the follow ups with AT&T in developing these dedicated documents.

So my last slide is focused on that PSCR conference that Chief Johnson mentioned earlier and the initial funding out of the $300 million that was made available from the spectrum auctions and was also part of the FirstNet legislation. They've – PSCR – under Dereck Orr – they announced their first round of awards and had several of them actually present at the San Antonio Conference. There were 33 grants made out of 163 applicants, which they were very surprised and pleased with how many applied for this…

SUE SWENSON: Right.

JEFF BRATCHER: …it's one of those - I think NIST has been quoted saying, "This is the largest response to a grant they've had so far." There's five key public safety areas that this is focused on and these were developed in partnership with public safety. And this was started in 2013. They held stakeholder meetings to ask public safety, "What are the areas on a broadband network we need to try and accelerate the investments or accelerate the capabilities and features?" Mission-critical voice, location-based services, some of the public safety-specific analytics of data, the research and prototyping platforms for companies to develop public safety

features. And then some of the resilient systems and how you can ensure systems work in poor conditions.

((Crosstalk))

JEFF BRATCHER: So across these five areas, they made 33 awards. I'm just going to highlight a couple of the ones that jumped out at me as they were sharing this at the PSCR conference. The full list of awardees are on the weblink here, and that's been made available for the slides and on our web site as well. But for the mission-critical voice you have SonimTechnologies, Harris Corporation, a university out of Spain. So we have a worldwide participation in this program now that are focused on some of the mission-critical voice capabilities.

Location-based services – so this one was a great eye-opening experience at the PSCR Conference. Assistant Chief Trevino from the San Antonio Police Department, he gave the keynote on day two. And part of his keynote was sharing that in May, they had a firefighter, the San Antonio Fire Department, that actually perished in fighting a fire. And as I dug into what was the background on that, he had a problem within fighting the fire and they could not find him in the burning structure. So that location-based services, that really brought it home for the researchers that were there and all the staff that were listening on how critical this is to pull this capability, you know…

SUE SWENSON: In.

JEFF BRATCHER: …sooner in, as Kevin mentioned as well. That the critical one, it's the Holy Grail, I know Chief Johnson, this is one near and dear to his heart. We're very pleased and some of the awardees that they pulled into this are Carnegie Melon University and the University of Oxford has actually providing this. They're very interested in the U.K. as well with their network so they have received some grant funding for this, and MIT is involved as well. Some of the public safety analytics, we have Southern Methodist University, the University of Cincinnati, University of Houston involved as well as a couple others.

The prototyping platforms, again, this is to enable low cost R&D tools for companies to develop these mission-critical features for public safety -- New York University, the University of Colorado out in Boulder, as well as the University of Washington. And then on the resilience systems, we have Texas A&M, who's been involved for a long time in the public safety broadband space, as well as the Michigan Technological University and a few others.

So, I was very impressed. I'd like to ask Neil or Ed who were there and actually asked questions of these grantees. It was fantastic to see them involved and engaged at the conference and asking questions. So Neil and Ed any observations you might share?

NEIL COX: Yes, I'd like to make a few comments. One of the things that you saw all of the entrepreneurial spirit come out and you saw the universities and academia and you see these

venture funding groups that are looking at this now for finding mission-critical services and applications. And they know this network is going to happen. And so we're going to see that explode in the next year.

But one of the things that really stuck with me at that conference was there was an officer that gave a keynote. And he got up, and this is one of those things where the visual aids really work. He held up a Harris radio. He said this cost $5,500 I think he said and then he held up an iPhone and he said, this is what we have for $5,500. This costs $500 and this is what they all want to use. So that visual aid of this chief up there talking that we use this, $5,500, but we want to use this because it does more and it's $500, and then you start thinking the potential of what this network is really going to do.

So I mean, in walking around, and talking and seeing some of the applications and mapping of buildings with devices that the French brought over in a backpack, you could essentially map a building and know what's on every desktop within the building. It's amazing how they've taken some very sophisticated technology and kind of made it more for -- it could be purchased. I think that was $75,000 for that device.

So and the technology of using sniffers and gas things and determine -- that take a lot of the guess work out of what goes on in a mission-critical event. And let the technology do the work for you. So, I was very impressed. Ed, I don't know if you want to say a few comments.

EDWARD HOROWITZ: Yes, I think -- let me echo the comments. The entrepreneurial spirit is truly brought out by the creation of this competition. Dereck and his team did a great job in soliciting, and then evaluating, and then giving these folks an opportunity to present. And so what you walked away from is not just what do we need to do in the next 90 days or a couple of years, but there is now a roadmap that looks out five, ten, and even beyond into which you can start to think about the art of the possible. And so, whether it's -- so it's location-based services is something we need to bring in really fast. Got it. Some chips need to be made and it becomes part of the devices and there's approaches to it. But then, the whole idea of 3D modeling, the installation of sensors in various parts, heads up displays. There's just different ways of attacking it and we don't know in our country necessarily what the best ways are.

By the fact that there are international participants who are now actually being able to leverage that which exists around the world. First, import ideas and then ultimately are there a lot of people looking at what we do? And then it'll be exported into those communities abroad, too. So, it was a terrific three days and truthfully, with FirstNet as the anchor, it was true inspiration and belief by the people that were applying to do these grants that there is a possibility that their ideas could be brought to market. And that, to me, was the other tent pole in not just the competition. But if I do this right, I actually can see its execution.

JEFF BRATCHER: Great feedback and I believe Governor Douglas and Kevin were there as well if there's anything, any highlights you might share.

KEVIN MCGINNIS: Talk about getting into full nerd (laughter). One example -- this stuff -- this is the first time we've been able in the ten years that I've been helping to push this stuff along that we actually are putting our hands around what this is going to deliver. You stated some of the great things that are going to be really important. All right, but the real nerd thing I saw, which is probably not one of the major things, but it will go quite a ways in training in EMS. Well, let me step back. Today, if you want to get training out to people in rural communities, you spend $125,000 on a mannequin.

Mannequins are wonderful. They are these plastic things that do wonderful things and you can -- their eyes open and then they do things and you can do things to them. And then you put them in a $125,000 van, RV, and take them around the state. Or you let this guy open his suitcase, pull out a holographic set of glasses, project a mannequin on a bed and the mannequin is changing colors. You can see it's in respiratory distress and the mannequin turns blue and mottled. I recognize that because I've seen that many, many times, and I start to get nervous.

And that's wonderful. That's a total sea change in how we look at training people and we can get lots of these much less expensive suitcases out there than we can vans out there. So it was really amazing.

JAMES DOUGLAS: I was there only for the PSAC meeting, but there was an afterglow clearly with all the excitement that's been described here. It was fun to see.

NEIL COX: I have to agree with Kevin on the virtual reality on the training. It was amazing the sophistication of some of those systems. My problem is I kept shooting the hostage when I was (unintelligible).

EDWARD HOROWITZ: But it also reflects the next generation, the generation of people that are growing up today that have no hesitation whatsoever about doing things in a virtual world. And maybe it started in gaming and then it evolved into education and future training, and then it's development of the content that's going to actually be present for that.

And I think -- and that was the other part of it. The people who were in attendance and made these presentations really did represent a cross section of kind of the established digital immigrants and digital natives, and then I don't know what the next generation below digital native is. Maybe digitally embedded people. So it was really a wonderful opportunity and it inspired questions, and I think the folks that were there from the R&D community, they actually learned something from the audience because real life stories were being presented.

NEIL COX: The size of the group was enormous too, like 350 people.

JEFF BRATCHER: Yes, we had PSAC. We had public safety. We had SPOCs. We had a strong public safety presence as well as the researchers now that are engaged and working to solve a lot of these key public safety problems. Chief Johnson, I mentioned earlier, the one that struck me was when they shared the story of San Antonio Firefighter, Scott Dean, who passed

away because they could not find him in the building that was burning the month before. And the location-based services panel, I think it really struck home when the Assistant Chief Trevino shared that with the audience. And they're like, okay, we're making an impact. This is what we're doing. We're going to be saving not only fire -- not only public safety lives but then lives for the public as well.

Last full nerd comment. I think Neil mentioned it was the backpack that they walked up and down the river walk in a self-contained backpack with the LIDAR, little spinning thing on top.

SUE SWENSON: Google on….Pedestrian Google.

JEFF BRATCHER: Absolutely. It wasn't just pictures. It was a full representation that they were then able to show and plug it into the systems immediately.

SUE SWENSON: It was pretty amazing. Well, you know, having been there as well, I think back to PSCR, my first one in 2013, and what a difference. I think public safety has gone mainstream. I think you have to realize that the reason people are coming with this innovation is because they believed that it was going to happen. And believe me, if they didn't think this was going to happen, they wouldn't have been there. So FirstNet, the network is the foundation. Everything else will occur on top of it. So everybody who's been involved in this should feel pretty good about public safety going mainstream as a result of that.

NEIL COX: Someday maybe we'll get our own pavilion at CES.

SUE SWENSON: Exactly. Well, we're probably going to have to be there. Well, I think we -- are you complete?

JEFF BRATCHER: Madam Chair, that concludes my update. I'll take any other questions if there are any.

SUE SWENSON: Any other questions or comments? So this concludes our morning session. We're going to take a break for lunch. We're right on schedule and so for the people listening or in the audience, we'll be back at 1:30 p.m. Eastern. For the Board members who are here, be back in this room at noon and so you'll have time to have lunch, get checked out, and for those who are on the call, I think you have a number to call in. And if you don't know what the number is, please contact Karen and she will provide it to you.

May I have a motion to adjourn?

WOMAN: So moved.

SUE SWENSON:Thank you.

MAN: Second.

SUE SWENSON: Thank you. All those in favor pleas signify by saying aye.

ALL: Aye.

SUE SWENSON: Any opposition or abstention? We are adjourned. See you at 1:30. Thank you.

AFTERNOON SESSION

COORDINATOR: Your line is live now. You may go ahead.

SUE SWENSON: Welcome back. Hope you all had a (unintelligible) nice long lunch so hope you enjoyed that. We are posted for a closed session to talk about (unintelligible) and we will not be recording that anything in great detail (unintelligible) discussion (unintelligible). We will continue the (unintelligible) presentations with our (unintelligible) members in the membership teams and (unintelligible) communication of this member. She is back from maternity leave so we'll (unintelligible). So we're really happy to have you back and also Brian Hobson who is our Director of State Plans (unintelligible) recently but over the past (unintelligible) to get ready for the big day, which was (unintelligible).

COORDINATOR: Excuse me, this is the operator. You are fading in and out and there's still background noise.

SUE SWENSON: Okay, well, I'm speaking into the same speaker (unintelligible). Do you hear background noise?

COORDINATOR: Yes, there's background noise.

SUE SWENSON: (Unintelligible) showing all except for Brian's. Can you guys do that? They're going to kill all the microphones except for the people who are speaking, mine. How's that? Is that (unintelligible) operator?

COORDINATOR: I can barely hear you because there's so much background noise.

WOMAN: We have it on mute.

AMANDA HILLIARD: This is Amanda Hilliard. How's the sound for you now?

COORDINATOR: It's a little bit better.

AMANDA HILLIARD: Better, okay. All right, we'll go ahead and get started and I guess just interrupt me if there's any more sound issues so we can make sure that the audience is hearing.

So, thank you Madam Chair for the opportunity to give you an update on State Plans. Brian and I are going to fill in for Rich Reed who is on a well-deserved vacation, spending a little bit of time with his family this week. He was (unintelligible) pretty much the whole month of June. So we're glad that he was able to take that break and be with his family this week.

Before I jump into our update, I wanted to take a minute as well just to again thank you, echo my thank you to Chief McEwen for all the work and engagement (unintelligible) given to me personally and to the CCO team (unintelligible) as well as my time at DHS. Chief Johnson rattled off that long list of deliverables that you organized (unintelligible) around. I wanted you to know that we talked to (unintelligible) last weekend and that over the next several months, we'll be revisiting all those (unintelligible) with PSAC members as well as with the AT&T teams and revisit a lot of those recommendations and make sure that the issues -- the AT&T team is fully aware of those and (unintelligible) to get (unintelligible).

So thank you again. I miss those 6:30 a.m. phone calls. I don't think I have anyone else who is willing to do some of those with me. But you'll be missed and Tom, off to a great start. I know the (unintelligible)…

COORDINATOR: Excuse me, this is the operator. It's really bad again. I don't know if you're on a speakerphone or if -- what equipment you're using but if you could turn it down, maybe the sound down, maybe that would perhaps help.

AMANDA HILLIARD: (Unintelligible).

COORDINATOR: We're unable to hear you. I don't know if any of the other speakers can let them know that as well, if you're hearing the same thing I'm hearing.

ED REYNOLDS: Yes, this is Ed Reynolds. I can barely hear them and it's like she's breaking into oscillation but she's very, very down.

WOMAN: It's a problem for all of us on the line.

AMANDA HILLIARD: Operator, we're going to reconnect (unintelligible).

COORDINATOR: All right, they disconnected and so I'm going to go in and get them when they dial back in and make sure we test the lines. So stand by here.

ED REYNOLDS: This is Ed Reynolds. I'm going to have to drop off anyway so I'm going to drop it. Thank you.

AMANDA HILLIARD: Okay, how does it sound now? Can you hear me okay?

COORDINATOR: Yes, we can hear you well now. Thank you.

AMANDA HILLIARD: All right, and I'm going to jump into our State Plan update. So I'm going to take a few minutes just to talk about where we are with the State Plan delivery, the review process, and then as Sue mentioned, I'll turn it over to Brian who is going to talk a little bit more about the content in the State Plan's portal as well as provide a demonstration of the Firstnet.com site.

So as you can see on this slide here, I just wanted to take a few minutes to drill into the State Plan's timeline that Steve Fletcher had discussed earlier this morning and just hit on a few pieces. Obviously, the State Plans went out last week. We are now in the 45-day review cycle for the states and public safety to review those plans and provide feedback back to FirstNet. So we've asked for all of the SPOCs to compile that feedback from the reviewers within their states and submit that in a single comment form back to our team no later than August 4.

And then our team along with AT&T will review the feedback and make some adjustments perhaps where needed and then our plan is to officially deliver the plans to the governors no later than late September, which would trigger that 90-day clock. There's a couple of points I just wanted to highlight before I moved on. One, again, just reiterate the sense of urgency obviously that the team has had around the State Plan development and delivery. Again, we're only two and a half months into the contract award so just incredible work done by Brian and the team, the AT&T folks as well as across the other business units, the legal team support, CTO support, the help from NPO across our consultation team. Just really a team effort to get that done with everybody. Very focused to meet that aggressive target date of June 19.

Again, two and a half months after award, three months ahead of schedule. The other thing I wanted to hit on again are our commitment from the early days to make sure that we allow the states time to review the plans, get some feedback, engage in some dialogue before they officially go to the governor. Obviously, we're honoring that. We said that since the beginning. We're doing that in a concise and expedited timeframe but that was important. We wanted to make sure that we had that in the process.

I also wanted to note just we're allowing for some flexibility in the process, again, based on feedback that we've gotten from the states. If there are states that would like to proceed more quickly, we do have the -- we are offering that we can move up the official notice to the governor. Again, if states want to start that 90-day clock or make that decision, the opt-in, opt-out decision earlier, we're providing that flexibility.

The last piece I wanted to note is just obviously our engagement with the states with public safety is not going to end at the governor decision. That's why you see an ongoing arrow there at the end. Just like we've been consulting with the states, with public safety from the beginning, FirstNet and AT&T will continue to do that with public safety throughout the life of the network.

So moving on, I wanted to take just a couple of minutes to talk a little bit more about the June 7th and 8th State Plan kickoff meeting that we had done and offer a couple of minutes if some of the Board members that participated wanted to reflect on that. We had a really great engagement.

We had all 56 states and territories -- can I just ask everyone to make sure you mute your lines for those that are on the speaker. Thank you, that sounds better.

Really great participation. All 56 states and territories. We had Tom Sorley there as well as a couple of the other PSAC executive committee members. Great to have some Board participation. A great group from AT&T and the FirstNet Team. I think that the timing of the meeting was really good, two weeks prior to the State Plan release. Our three main outcomes, I believe we achieved was one, doing some training on the State Plan portals. Brian did four breakout sessions to really walk everybody through that portal to start to get them comfortable for when that would show up in their inbox.

Also spending some time talking about the State Plan review process meeting (unintelligible) to understand over the next 45 days kind of how they anticipated engaging within their state and how they wanted some support there. And then AT&T spent a lot of time providing a lot of in depth detail about the solution. I think Rich did a nice job kicking off the meeting. I'm finally not going to have to answer I don't know. We have to wait until the contract is awarded.

So it was good to get into some of those breakouts. We had breakout sessions on network design and coverage, network services, apps, devices, local control, and customer support. So a lot of good engagement there. Lots of good questions although I think all the questions, now that we're starting to have answers, just prompts a lot more questions. So we've been monitoring lots of questions and doing a lot with messaging across the team.

We ended the two-day meeting by doing one-on-one sessions with each of the 56 states and territories, and I think that worked well because we were able to get immediate feedback from just their impressions over the last day and a half of sessions.

And then as I mentioned, really start scheduling those engagement reviews with them where we would go through the State Plan and understand how they plan to engage their stakeholders, where they might want us to come out and support that. So that went really well. Again, AT&T brought a great team, a lot of technical resources to the meeting. I think their commitment to public safety, to the FirstNet program was very evident throughout those two days, and I would say generally the feedback was positive from the participants. Of course, they were all eager to see the State Plans and wanted to see the coverage and get that cost information. But I think it was a really valuable two days.

So, I wanted to just pause for a minute and see if any of the Board members that attended, if their mics are turned back on, wanted to provide any comments.

SUE SWENSON: I was there for a couple of days and to your point, I think people were pleased to be able to start talking specifics, and I think they were pleased with the detail that AT&T was able to deliver there. I went to a couple of the breakout sessions and just the -- and I think the people that are part of the AT&T team, as we talked about earlier, they're making a real effort to bring people in who, one, are receptive and understanding of public safety needs. But they're also

bringing in people onto the team who are from public safety and I think people saw that. They see a real effort to really make sure that we got people who really understand this particular group of people.

So all the interactions I had were -- I think they were pleased and pleasantly surprised. And it was very encouraging. It was actually the first SPOC meeting that I actually attended. So I guess I picked a good one.

AMANDA HILLIARD: Any others. Kevin?

KEVIN MCGINNIS: Well, I've actually attended every SPOC meeting from the first and it's been really instructive and satisfying to see the interchange from that first, which was -- the first were sort of flubbing around -- is this really going to happen in my lifetime. We think it is. And I have taken notes of everybody who has said that and I have a special RIP award that I'm going to send out to them. So -- and then as things -- as plans sort of started to harden along, then we started to see push back and some cynical reactions. Because it's really going to happen if we do stuff, and I don't know if it's going to help me do stuff the way I want to do it, and it may interfere with my system and my state. And just long story short, this was a total over the top, down, other side, we're all in this together and we're heading out, and it's happening.

And so I think it was really positive. I think staff did a wonderful job in getting us focused on answers. Didn't have all the answers and that's fine. But we started answering questions as they were being asked and answering them before they got asked. So I thank you. It was a good opportunity and I think staff lived up to taking that opportunity.

AMANDA HILLIARD: Neil?

NEIL COX: Everybody heard the same message, all of the states, all the representatives heard the same message. And I thought it was a really good session when they had the opt out, when what the rules were going to be, how they were going to be judged, and those two ladies did a phenomenal job of everybody hearing the same message at the same time, and I thought that was very powerful.

JEFF JOHNSON: I just want to leverage in off Kevin's comments about the history of this. I just want to compliment the staff and the SPOCs rather distinctly. First, I want to compliment the staff of not taking the easy way out. Staff has always been candid with the SPOCs no matter how painful it was to deliver the message. But because of our insistence that we'll always tell just the cold truth that we've developed a rapport and a relationship that the SPOCs know they can believe us when we say something.

Now, I just want to -- I think Sue you've set the tone with the Board, the staff has certainly emulated that and developed your own credibility. So just thank you for that, and I think as a result of that, when the SPOCs come there and you see the same faces year after year, they've done their part too. The SPOCs have been candid with us. Some of them take more glee in being

52

the bearers of bad news than they should, but I think we get that, right? And I just -- I think it is a very healthy give and take. And I think the SPOCs deserve a lot of credit for being candid with us, delivering tough messages to us, being good fiduciaries of public safety in their states but also keeping the lines of communication open here.

If there's anything I've seen over this period of time from February of 2012 until today, it's that open, uncorrupted dialogue about what's really going on. And that's a choice on both parts and a credit to you both.

AMANDA HILLIARD: Thank you.

JEFF JOHNSON: Not much I can add. A different feel to this meeting from previous ones because we have our private sector partner now, and I hope it worked for you because you're sharing both the load and the limelight with a partner. But I think it appeared to all of us attendees to be well executed, seamless, and uplifting really to get a positive message out to our constituent communities.

I think Neil makes a great point that originally as I recall, the agenda had the opt out session an optional opportunity at 3:00 p.m. or something. But instead, it was made a prominent part of the agenda, which I think was really important to get that information out to everybody. So, I thought everything went well. A lot of good time for folks to mingle informally, the individual state meetings that you mentioned were positive. So a great event.

SUE SWENSON: Let me just make one more comment on the opt out, Neil, to your point. I heard a lot of good feedback about that and I want to give credit to Marcia McBride from NTIA who has been working with us since the beginning, and she's worked with me in the early days doing the BTOP negotiations with the FCC.

And so understand she did a terrific job. I just want to call that out because I think she deserves a little special -- because that's not an easy topic.

AMANDA HILLIARD: Yes, if you've seen Carolyn Dunn on stage for about a half hour going through the process, or an hour and a half, going through the process answering a lot of good questions. Well, thank you all. That's really good feedback. So, before I turn it over to Brian I just wanted to cover a couple more quick things just in terms of the roll out of the State Plans last week and then the engagement we've been doing since.

So I wanted to take a minute just to give Ryan Oremland in the communications team some kudos for some great work that they did leading up to the release on June 19th. That day seemed to go pretty seamless. They created some great infographics. We've got our new YouTube star, Governor Douglas, in a great video that they put out, as well as significant -- the press release and a lot of engagement teed up with some of the regional trade press and national press.

So a busy two days in executing but a lot of work done to get to that and I think as you probably saw in your press clippings, we had a lot of good coverage of the events last week. So just wanted to give that team some credit. And then TJ mentioned earlier in his updates, since the release, in the last seven days, by the end of the day today, our team will have met with 24 states, 29 by the end of the day tomorrow. We've got five more planned for this week, to go through the State Plan portal, work hand in hand with the AT&T team to deliver the high-level solutions, start to answer questions.

So, in general, I would say those meetings are going well. There's been a great partnership, a coordination with the AT&T team. I think they're bringing the right resources to the meeting, they're bringing some of their brand engineers to be able to dive deep, have some of those coverage discussions. Not to say there haven't been some challenging discussions. Again, lots of questions. But overall, really good coordination and again, I think Chief Johnson was good in echoing the thanks to the SPOCs for working closely with us to make sure we got all those things set up very quickly so that we were able to do all these engagements over the last two weeks. And do we have nearly all the states and territories scheduled for completion before that August 4 timeline.

Any questions before I turn it over to Brian to talk a little bit more about what's in the State Plans as well as do the demo? Thank you. I'll turn it over to Brian.

BRIAN HOBSON: So yes, as many have said, it's been a busy time the last couple months, especially for the State Plans team but it's been incredibly rewarding. We have (unintelligible) a key step in this process, in this evolution. We're excited (unintelligible) deliver that information and really begin the discussion with the stakeholders, which I know everyone has been eagerly awaiting.

I was just doing some quick math and looking back from (unintelligible) 81 calendar days (unintelligible) a great amount of work and a testament to the State Plans team, a testament to the entire organization. I mean I don't (unintelligible) what can we do to help, let us know. Everyone jumped in (unintelligible) proud to be part of the organization and to meet that (unintelligible).

And as well to AT&T. We were well prepared. They were well prepared. That's what really allowed us (unintelligible). In going through that, we learned quite a bit. We learned that this consultation process we've gone through, it really came to fruition as to how much we've learned from that consultation, what the expectations of the SPOCs and the SPOC teams, and those stakeholders (unintelligible) type of information (unintelligible).

It was very beneficial to have that background, have that basis to be able to deliver the plans, and really, like I said, begin the discussion, have this as the basis of that consultation, that ongoing (unintelligible), that immediate feedback from the SPOC and their teams on just kind of where we are with the plan, and how well did we view in that (unintelligible) expectations.

With that eager anticipation, certainly there's been a lot of people that want to gain access to that. We continue to work through our stakeholders and remind them that the State Plan was really intended for the SPOCs, the SPOC teams, and those key influencers to the governor. That's the audience that it's targeted for. There's some sensitive information for that (unintelligible) have access and it's also why we wanted to release the first (unintelligible) outreach (unintelligible) I think the difference between what we have here in the State Plan versus on (unintelligible).

So just wanted to use a couple minutes here to kind of show at a high level what we've included in that State Plan and the way we've (unintelligible) kind of grouped things into six different sections or six different areas structured and organized the information.

We have the what is FirstNet. That really provided the background information for those that are maybe new to the process, don't have that -- all the background. We wanted to kind of give that the (unintelligible) as well as the overall value proposition of FirstNet. We also included a very detailed section on the consultation process -- what did we learn through consultation, not only with the state but through all of our nationwide engagement. That information was captured there to really kind of -- you can see and reflect on all that information that was learned (unintelligible) the federal partnerships, all that information is captured.

The governor's decision includes, as you can see, an executive summary, some key information as well as information on the process and some of the key (unintelligible) with respect to opting in or opting out, in particular opting out. So, we talked about the network policies, the opt out requirements matrix, some key information. The goal of this was to always give the states the information (unintelligible) process in that area. Moving along, certainly the coverage section, kind of a key fundamental area of a wireless network and to no surprise, for those users that have logged on that has been the first stop in navigating through the portal, far and away beyond the other section.

So we've tried to create a lot of flexibility in how we built that map out and the layers to allow you just to drill down and really gain access and learn about the deployment, the timeline of the deployment, the different -- to zoom in, drill down into a great detail. I think that's proven to be very successful in allowing users to gain that type of (unintelligible). The network architecture is really -- the more detailed build out of the FirstNet core, the RAN deployment, the network implementation overall and certainly, information about security and key (unintelligible).

And last but not least, products and services. So we went into -- this is really, as I said, the tangible information that (unintelligible), information around the key features of the network and the deployment, how deployable and mission-critical services in the roadmap, local controls -- some of those things that are kind of key tenants to the value proposition. Information not only about the devices but the device certification process and a lot more deeper dive around the device topic.

Wireless rate plans, that kind of the basis, foundation, starting point for information (unintelligible) Amanda said cost and coverage (unintelligible) points of interest we heard and

the consultation road around applications. Again, a broad discussion around the ecosystem (unintelligible) very comprehensive plan. We feel that it provides again the basis of information. We've found engaging with states and to no surprise that they want to kind of take a deeper dive into some areas and specifically that's where this dialogue that we're having and the consultation (unintelligible) talk to the plan and the content there but you'll be able to really have the dialogue and the (unintelligible).

The last point I'll make is that we did embed a commenting feature within the plan. So stakeholders are able to go in and provide the comments directly into the plan and then the (unintelligible) can aggregate all that feedback (unintelligible) I will take any questions before (unintelligible).

MAN: So typically, what are the portals being opened to by way of stakeholders and (unintelligible)?

BRIAN HOBSON: Oh, who's involved? So we found that on average, I would say states have been granting access to about 30 or so folks overall within the state. I think right now, we're at a total of about 1,600 users nationwide but it's really been the SPOC teams, those governing bodies. Anyone who's really going to be intimately involved in the process of reviewing this has (unintelligible).

MAN: Brian, folks can also go to the firstnet.com website to get additional data that are not necessarily going to (unintelligible).

BRIAN HOBSON: Exactly, yes, so that we've (unintelligible).

SUE SWENSON: Did I hear correctly that the portal is actually performing pretty well in terms of being available and not having any problems in terms of access or downtime?

BRIAN HOBSON: So far so good. We've certainly run into I'd say a few minor speedbumps not surprisingly with the process, but we've been actively working those literally daily calls to figure out what's going on, set up a help desk to field questions, to help with just getting access. That was another thing that was actually (unintelligible) and have just been -- these engagements I think have been helpful.

SUE SWENSON: Sometimes we just forget about what's the experience on the actual portal itself and it's important to mention the portal itself performed well. You're going to show us firstnet.com?

BRIAN HOBSON: Yes. So this is our firstnet.com website. This was, as mentioned, done in a parallel launch. So as we launched the State Plan portal, the same day we also launched firstnet.com. And this website is really intended to target -- continue that outreach and education to the broader stakeholder community for those that want to learn more about FirstNet, especially if they've heard news about the award of the contract and the pending release of State

Plans, and what does that mean to them that may be not involved in that process. How can they continue to stay engaged, learn more information about FirstNet, and be ready for service once it becomes available in their state.

So that has really kind of been the objective of this website. You can see we're currently logged in. It's an open website so anyone that can go to -- that has internet access -- can go to firstnet.com and see this page. You can see across the top we've got the navigation of the power of FirstNet, which is really background information and kind of learning about the process of where we stand and it's also a good place that users can go to -- if they want to kind of learn more of how to stay connected.

So there's the ability to contact a FirstNet specialist, which is a key element, to really start connecting to users that might be looking at this longer-term. There's ways at the bottom to find out ways to learn more, to connect with different individuals, whether it's the SPOC, whether it's the FirstNet points of contact. And this really gets into explaining where we're at in this unique process of delivering State Plans and waiting for that governor's decision to determine opt in or opt out.

We certainly wanted to provide a coverage map so there's coverage available on the firstnet.com website that you can go and just like on the State Plan portal, it is an interactive map that allows you to zoom in and drill down into areas of interest. You can see here on the legend that this is showing that upon opt in, especially for the states that may want to accelerate that process, you can already see the areas where priority would be offered on the network, a key element to the solution we're offering. So that map has shown as current day coverage where LTE could be provided upon award, as well as the explanation that we talked about with preemption being made available at the end of the year in those same areas where you see LTE with priority delivery today.

And as I mentioned, you can drill down. You can use our search function very similar to how you're used to navigating maps today. If you want to search for specific areas, addresses, streets, you can use that using the search area. So just scrolling across the top here, there's information about rate plans. Right now, it's pretty high level until as we continue to kind of evolve that process and solidify what those rate plans are.

What we've found in this State Plan consultation process is we're already getting some good feedback from that process that I think certainly could help provide input to that rate plan once we go live with service. Some basic information on devices and accessories, showing the different types of the device portfolio, certainly some samples of information that we're looking to provide. High level information in the overall solutions that are available with our offering. Information on the application ecosystems, some high-level information there on the app store that we'll be releasing, the public safety home page helper program, and lastly FirstNet Events, which just kind of shows some of the key events.

So that is the firstnet.com website in a nutshell. I'll leave you with the fact that the goal of this is to really continue to evolve this site, obviously, as we transition through the different phases and this becomes less of an outreach tool and more of a sales and marketing tool. This website will definitely evolve and continue to provide that face or that landing point for FirstNet interested stakeholders to come and learn more information.

SUE SWENSON: Very nice. Any questions for Brian about firstnet.com? I think there was a little confusion at first about the portal and firstnet.com but I think we were able to clear that up in terms of the differences and what each one was for. But I think that's all cleared up right now.

BRIAN HOBSON: Right, the priority nature of the state's data is on one side and then the firstnet.com is for any and all.

SUE SWENSON: So we're at a wrap up. So, Mike I think you have a few comments to make just to close the meeting out.

MIKE POTH: Absolutely. Thank you all for everyone coming. Last time we met in a formal capacity, it was a historic day with the contract signing. I want to thank the Board again for all your hard work to get us to that point and as a small token of our appreciation, literally, a token we have given to you and those that aren't here, we will be sending you the first original FirstNet challenge coin as a small award for your efforts. So thank you again. A significant day and a lot of progress.

I also want to thank Harlin for all of his great work over the years, not only making this network a reality but he didn't stop there with the PSAC work. He continued to drive and now it's Tom's turn to drive. So welcome Tom with your new hat. You've always been at the co-pilot. Now you have the wheel, and we look forward to continuing to work with you.

The release of the State Plans, we've talked about it, can't be underscored enough the significance of that. That's four years of culmination of hard work, and I want to thank the states. They have been slogging through this thing for the last four years, the SPOCs, all the state staff, all the public safety entities and agencies throughout the country. It's only because of their hard work that we even get to this point to even have plans and contents to be able to release. So thank you to all the states.

As part of that effort, you may recall we talked to over 140,000 public safety people over the years, collected data from 12,000 public safety agencies that represent over two million public safety personnel. So when we truly say this is a network for public safety by public safety it's with the utmost sincerity. I also want to thank the entire FirstNet organization for the work that they've done over the years to get us to this point, too, and in particular, Brian and his team, and Rich Reed, who is on vacation on a beach somewhere probably having a Mai Tai knowing Rich, with little a umbrella -- several of them -- working with the states, our partners in the states and now, our partners with AT&T to get to this point. And there's still more work ahead. No one is

spiking the football. We're not done. We're just beginning, but I want to thank you for all the work.

We set a high bar with the evaluation process. We had a pretty rigorous and vigorous process that we held all the competition to and AT&T was able to prevail in that. Public safety has high expectations and demands of us as they should and we're passing those expectations onto our new partner. We've established the same rigor and vigor that we did in evaluation. Now, we've shifted gears to the contract execution and we're going to make sure that with our detailed and structured approach, Steve Fletcher touched on that lightly, with our governance and the management approach, we're going to ensure that all the contract terms are met with AT&T as we progress over the next 25 years.

The good news is that AT&T in just our short time has not only met but exceeded our expectation (unintelligible) committed to this public safety commitment all the way up to their CEO. The CEO of AT&T on a monthly basis is having a -- I don't want to call it a tribunal -- but I will with his team to make sure that their team is doing everything and leaning completely forward to make FirstNet reality for public safety. So that's a ringing endorsement of their commitment, and we look forward to continuing to work with them.

The biggest proof in that is because of the hard work of Brian and FirstNet's organization, all the states, and AT&T, they were able to release the State Plans three months ahead of schedule. And three months is a significant jump in a project of this complexity. So we applaud everyone's efforts but that's just the pace and the tempo that we expect going forward as we talked about when TJ had the roadmap up. Those are targets that are out there, but we certainly are expecting and AT&T is to try and do everything they can to move things to the left as quickly as they can.

And I'm confident in the solution that is being set. The appetite for risk in deploying something like (unintelligible) different when (unintelligible) mission-critical system and public safety (unintelligible). And so we are confident that AT&T's approach is going to be absolutely successful. We're confident that FirstNet supporting that effort is going to make it a success. So what happens the next three months? We look forward to the next 90 days as we solidify the plans.

When we roll around the corner for our next Board meeting in Boulder, we will be at the point where the plans will be being released to the governors for that 90-day shot clock to begin. We'll also, as we talked (unintelligible) FY 2018 budget to the full Board for consideration. But I've also tasked Jeff and the team out in Boulder where we're going to host the event to really focus on the next meeting around technology and innovation (unintelligible) is doing. We'll do a lab tour there and the lab of what Jeff has got going on at the nerdery out in Boulder, as we say. Instead of challenge coins, we'll be passing out pocket protectors.

So we look forward to those days. You've heard from the Board or from the staff and from yourselves, the sense of urgency remains and we have to continue. The amount of work that's been accomplished, Amanda and Brian just mentioned. They've already held 24 meetings and

they have 29 more just in the next two weeks. So that's 53 of the 56 states have come up and said, okay, we've looked but now we want to have a detailed discussion, and we're rising to that challenge because as Brian noted, we want to make sure that they have all the data that they can for an informed decision.

We are, as the states are starting to look into these plans, some have indicated there's a possibility of trying to opt in earlier (unintelligible) create that. And there's more work to do and we want to also thank our federal partners, the FCC, a significant milestone for us just last week by defining what their rule and order was going to be. And we continue to work with NTIA who is diligently getting through their process so that they can support any states that are considering the opt out option. So I want to thank all of them for their efforts.

And then a year from now, less than a year, nine months, the Core will be accepted one year after contract signing. So we're pushing ahead. FirstNet and AT&T, I was worried when we first started this were we going to be pulling them along or were they going to be dragging us along. And I think it's shoulder to shoulder, kind of a sprint and everyone is trying to get this done. So, we want to continue to focus. We're going to be fast but we're not going to be sloppy because this is too critical, and we've got to get it right for the states, for public safety, and for the government.

So thank you all for your efforts. Board, there's going to be a lot of work that we're asking over the next two months, even prior to our next quarterly Board meeting with some of the work with our Finance Committee and our budget, the Governance Committee, and as always, our Technology Committee as we push and drive this thing to the next level. So thank you.

SUE SWENSON: Thank you, Mike. Just sitting and listening to you, it's what we signed up for. We're not afraid. As you know, we've been doing this for about five years now. So happy to move it on, and I'm very honored, and privileged, and proud to be part of this organization. I continue to be. We still have our challenges, as you said. We're moving onto a new phase, but to look back and I think back, Brian, Jeff, and I were just talking. The very first meeting we had in San Diego to talk about outreach. Kind of amazing when you think about that and where he is today.

So we've come a long way. We have a ways to go, but I think we've created a great foundation and again, this is a network for public safety designed by public safety and we're here to facilitate that. So thanks everybody for your attention today. We have a lot to do between now and the next meeting and we'll give you other updates in the next meeting.

Can I have a motion to adjourn please?

WOMAN: So moved.

SUE SWENSON: Thank you. Second?

MAN: Second.

SUE SWENSON: Thank you. All those in favor, please signify by saying aye.

ALL: Aye.

SUE SWENSON: No objections or abstentions I presume. Thank you. Have a good day.

COORDINATOR: And thank you. This does conclude the audio portion of today's conference. You may disconnect your lines and thank you for your participation.