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12 CONNECT2HEALTHFCC TASK FORCE
13 VIRTUAL LISTENING SESSION - POLICYMAKERS FORUM

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1 P R O C E E D I N G S

2 (1:30 p.m.)

3 OPERATOR: Ladies and gentlemen, thank
4 you for standing by and welcome to the
5 Connect2Health FCC Virtual Listening Session
6 Policymakers Forum. At this time all participants
7 are in a listen-only mode and later you will have
8 an opportunity to queue up by pressing * then 1.
9 We will also have an interactive session in the
10 call where you will need to mute accordingly as
11 well. If you should require assistance during the
12 call you may press * then 0. As a reminder, this
13 conference is being recorded. Currently we will
14 be taking a role call and I'll provide the names
15 of the callers.

16 We have Eli Fleet with HIMSS; Jacob
17 Terrell, National Association of Counties;
18 Jennifer Plymale with Marhsall University; Maria
19 Givens with NCAI; Tim Carney with ASTHO; Kamala
20 Hart with FCC; Patty Mechael with HIMSS; Carolyn
21 McCoy with ASTHO; Eric Frederic with Connected
22 Nation; Cindy Muir with NARUC; Andy Rhea with

1 Cherokee Health Systems; Chantal Worzala with
2 American Hospital Association; Jeff Hallstrand
3 with Price County Teleplant; Tracy Hines with
4 Colorado Telehealth; Michael Morris with WVDHHR;
5 Jeff Reardon with FCC; Michele Ellison with FCC
6 Task Force; Susan Howard with NADO; Tracy Brewer
7 with Ohio University; Angela Panettieri with
8 National League of Cities; Leonie Heyworth with
9 VA; Michael Iaquina with iSelectMD; Suleima
10 Salgado with Georgia Department of Health; Kevin
11 Galpin with VHA; John Peters with Veterans
12 Affairs; William England with HRSA; Elaine Gardner
13 with FCC Disability Rights Office; Emily Moore
14 with ASTHO; Maureen Lewis with NTIA; Tom Watson
15 with Anderson Court Reporting; Gayle Teicher with
16 FCC; Yahya Shaikh with Connect2Health. We also
17 have on the call Chris Gibbons, David Ahern, Ben
18 Bartolome, and Karen Onyeije. At this time I
19 would like to turn the conference over to our
20 host, Karen Onyeije. Please go ahead.

21 MS. ONYEIJE: Thank you, Carolyn, we
22 appreciate that. Good afternoon, everybody. My

1 name is Karen Onyeije and I am the Chief of Staff
2 of the FCC's Connect2Health Task Force. On the
3 phone with me is my colleague Ben Bartolome who is
4 a special counsel on the Task Force. Ben and I
5 are going to do our best to serve as your
6 co-moderators for today's virtual listening
7 session titled "A Policymakers Forum on Bridging
8 the Broadband Health Divide." So, thank you so
9 much.

10 Let me begin by first welcoming you to
11 this session and extending our appreciation to
12 each of you for joining us for this critical
13 endeavor today. The Task Force simply cannot do
14 its work without detailed stakeholder input and
15 actionable ideas and suggestions from all parts of
16 the broadband telehealth ecosystem including all
17 of you on the line with us. So, we are beyond
18 grateful for your time and your focused attention
19 for the next 90 minutes. We look forward to
20 hearing your perspectives and to learning from
21 each of you on these very fundamental issues.

22 So, a bit of background. As you know

1 this virtual listening session is related to the
2 Commission's April 24, 2017 Public Notice on
3 Broadband Health, and it is the fourth in the
4 series. The vision behind these listening
5 sessions is really to create an acceptable
6 mechanism to accommodate the significant interest
7 in this broadband health proceeding from numerous
8 stakeholders across the country.

9 One of the key areas of focus that we
10 had is on the broadband health gap. By that I'm
11 referring to the apparent divide at the
12 intersection of broadband and health between rural
13 and underserved communities on the one hand and
14 their more urban and digitally connected
15 counterparts on the other. Based on some data
16 analysis conducted by the Task Force we found
17 that, unfortunately, the broadband health divide
18 is wide and it's growing. For example, we found
19 that the picture of health remains vastly
20 different in connected communities than in
21 digitally isolated communities, and that that is
22 true even if you look at access to care, quality

1 of care, and health outcome metrics.

2 So, one quick example is if you take
3 2015 broadband data the least connected counties
4 actually have the highest rates of chronic
5 disease. So, for obesity it's 25 percent higher,
6 for diabetes it's 41 percent higher. In fact,
7 what concerns us is that rural counties are ten
8 times as likely as urban areas to be in low
9 broadband access, and I mean by that below 50
10 percent, and high diabetes areas, so above the
11 national average, about 10 percent. Unfortunately
12 these digitally isolated counties also experience
13 physician shortages that are more than double the
14 national average.

15 Just earlier this week a study was
16 released about how cancer rates are declining
17 nationally but that Americans living in rural
18 areas are more likely to die of cancer. What
19 we're clinging to is the hope that we got from
20 stakeholders like the National Cancer Institute
21 and others who believe that connected health can
22 improve detection and treatment of cancers in

1 rural areas and will be able to address some of
2 this early mortality and morbidity. The sad thing
3 here though is that these cancer hot-spot areas in
4 rural America coincide with low connectivity
5 areas.

6 So, our charge today is to solicit your
7 perspectives on where we are with this broadband
8 health divide and to get potential solutions from
9 you. We want to gather actionable input on the
10 persistent challenges and transformative
11 opportunities that are posed by broadband and
12 health in rural and underserved areas. And we
13 really want to drill down if we can to concrete
14 ideas for moving the ball forward.

15 As you've heard, we are a pretty large
16 group on the call today and a very diverse group
17 of participants. There are more than 12 states
18 represented and we're really delighted that you
19 saw value in sharing your views with us. We have
20 representatives from federal and state government,
21 from state and regional health networks, public
22 health departments, academia, different levels of

1 government as I said, and tribal nations as well.
2 On behalf of Michele Ellison who is our Deputy
3 General Counsel and Chair of the Connect2Health
4 FCC Task Force we just want to thank you again for
5 taking time from your busy schedule to join
6 today's session.

7 Now, we want to hear from you but I'd
8 like to give my co-moderator, Ben Bartolome, a few
9 minutes to share with you an overview of how we're
10 going to proceed during the roughly one-and-a-half
11 hours that we have together. I will tell you,
12 because this is our third session, that the time
13 will go by very quickly so we want to proceed as
14 efficiently as we can. Ben?

15 MR. BARTOLOME: Thank you, Karen. As we
16 previously informed you, this session is being
17 recorded and the recording will be transcribed and
18 the transcript once complete will be made publicly
19 available on our website at www.fcc.gov/health.
20 It will also be part of the official record in GN
21 Docket No. 16-46, which is the FCC's Broadband
22 Health Docket.

1 Prior to this call we sent all of you a
2 copy of the Broadband Health Public Notice and a
3 list of thought questions in order to give you an
4 opportunity to think about what you might want to
5 share in advance of today's session. So we're
6 really looking forward to hearing your input.
7 Among other things, the input we receive from you
8 will be used by the Task Force in making
9 recommendations to the Commission, and your input
10 will also serve to inform us about future projects
11 and initiatives we might pursue. So, it's really
12 important that we hear from as many of you today
13 as possible.

14 We remind you that if you have any
15 additional comments or input after today's
16 session, especially if something comes to mind
17 later on, we would encourage you to file written
18 comments in the docket and we sent you
19 instructions for how to go about doing that. In
20 addition you may also contact us directly via
21 email at connect2health@fcc.gov. It's the same
22 email address we've been using to in sending you

1 information for today's session.

2 Now, in terms of format, we are dividing
3 the session into three segments. Segment one,
4 which will be about 15-20 minutes, will be devoted
5 to grounding the session with information from
6 specific participants that we hope you'll find
7 informative and we think will serve as an
8 appropriate level set for today's session.

9 In segment two, which will run about 45
10 minutes, we'll focus on the questions we sent you
11 in advance. Those questions relate to two broad
12 themes that we want to cover today. The first is
13 about potential solutions for bridging the
14 broadband health divide and the second is about
15 emerging issues in broadband health that you think
16 the FCC as well as other policymakers should
17 really be focusing on.

18 For segment three, we want to reserve
19 roughly about 15 minutes at the end to give anyone
20 an opportunity to provide any other comment or
21 input, even if unrelated to the two themes I just
22 mentioned. Finally, if there is time remaining --

1 but I'm anticipating not because we have a pretty
2 large group which is fantastic by the way; but if
3 there is time remaining, we may also open up the
4 lines for more free-flowing discussion.

5 Now, when you are speaking for the first
6 time please feel free to tell us a little bit
7 about yourself and your organization, and also
8 please tell us which city and state you're calling
9 from. Again, as a reminder, as our AT&T Operator
10 Carolyn instructed, whenever you're ready to
11 provide a comment in response to a question please
12 just press * and then the number 1 on your phone
13 and you'll be put in queue.

14 I think that's it. Let me now turn the
15 session over to Karen to get us started on the
16 substance. Karen?

17 MS. ONYEIJE: Thanks, Ben, I appreciate
18 that. As Ben mentioned, this first segment is
19 really designed to give us all a shared starting
20 point for the discussion. We're going to ask a
21 couple of participants to kick things off for us.
22 At this point, can I ask -- I think you guys are

1 on -- Dr. Patty Mechael, Maureen Lewis, and our
2 colleagues from the Veterans Health
3 Administration, Dr. Kevin Galpin and John Peters,
4 would the four of you please press * and then the
5 number 1 on your touchtone phones just to join the
6 queue now? That would be fantastic.

7 So, participants, I'm just going to
8 signal that we're going to move very quickly
9 through some of this general information that
10 we're hoping to elicit. It will be about the
11 future of healthcare and connectivity and how
12 consumers are or aren't adopting the internet for
13 health, which obviously will be incredibly
14 relevant to the FCC and other policymakers in the
15 broadband health space. And then also we want to
16 get some sense from the Veterans Health
17 Administration about specific telehealth models,
18 lessons learned, challenges and so forth that can
19 help inform a roadmap for success.

20 We hope that these comments are going to
21 get your thoughts flowing and we're going to try
22 to keep the segment to 15 minutes, so just note

1 down any thoughts that you have as we go through
2 this. We will give you an opportunity to respond
3 or echo or amplify what you're hearing from these
4 folks.

5 All right. So, Carolyn, would you
6 please open the line of Dr. Patty Mechael and
7 announce her please?

8 DR. MECHAEL: Hi, there. Is my line
9 open?

10 MS. ONYEIJE: Oh, fantastic, I wasn't
11 sure. Dr. Patty Mechael, thanks again for
12 joining us. We really appreciate it. Can you
13 tell us briefly about the personal connected
14 health alliance and your background? And then
15 we're really hoping that you might be able to
16 offer us and the group some perspectives on the
17 future of healthcare as it relates to broadband
18 connectivity and some of the future realities that
19 you think policymakers like the FCC and others on
20 the call need to be thinking about and preparing
21 for now?

22 DR. MECHAEL: Sure, thanks, Karen, and

1 thanks to the FCC for taking this on as an issue
2 and bringing us all together around it. It's
3 incredibly important. My name is Patty Mechael
4 and I run a part of the HIMSS Organization called
5 the Personal Connected Health Alliance. For us
6 personal connected health and the focus of our
7 work is really on helping to make health and
8 wellness an effortless part of daily life through
9 the increased use and strategic use of personal
10 connected health devices.

11 So, we now know that there are more
12 mobile phones than people on the planet, and so we
13 live in a highly connected world. Through these
14 connections, what we're finding are a number of
15 major trends that are happening in society that
16 are now starting to find their way into the health
17 spectrum.

18 So, one of the major trends that we are
19 seeing in this space is a movement towards
20 personalization and consumerization of everything.
21 So, travel has become increasingly consumerized,
22 shopping has become increasingly personalized, our

1 interactions through social media and even the
2 advertising that we are exposed to is increasingly
3 being tailored towards individuals.

4 We are seeing similar trends in the
5 health sector, and a lot of that is being driven
6 by innovations in technology as well as
7 innovations in science. So, genomics is playing
8 an incredibly important role in moving us towards
9 a more highly personalized experience in health
10 where through the combined use of data from
11 systems and tools like electronic health records
12 to your mobile phone to the data that is coming in
13 through the increased use of wearable technology,
14 and then if you add all of those thing with
15 genomics we're now getting to a more highly
16 personalized approach to health which also is
17 pushing into another trend within health is the
18 shift from treatment of disease and detection of
19 disease into prevention of disease.

20 Now a lot of the data that we have from
21 a population health perspective is giving us
22 greater insight into where are populations most at

1 risk where do we need to focus attention in terms
2 of our efforts from a health service perspective,
3 but then where are some of the key opportunities
4 not only to do early detection and treatment but
5 to actually prevent disease in the first place?
6 And this push towards prevention I think is going
7 to be really, really important and is also being
8 driven by a lot of the policy work that a number
9 of you all have been driving forward around
10 value-based care which is really how do we keep
11 people out of the healthcare system in their homes
12 and supported for longer?

13 One of the other major trends that we're
14 finding in this space is a rapidly aging
15 population in the United States as well as
16 throughout the world. And this desire by boomers
17 to maintain a sense of independence as well as to
18 maintain their mobility, their activity, et
19 cetera, and again the proliferation of personal
20 connected health devices is playing an important
21 role in that. Now, none of these tools are going
22 to be very, very useful if we don't have

1 connectivity, so broadband is the enabler that
2 facilitates a lot of this.

3 And then also if you think about and
4 look at even the recent natural disasters that
5 have happened, there is an important role that
6 telehealth and remote patient monitoring is
7 playing on the treatment side. So, when you have
8 shortage of healthcare providers in some of these
9 key geographic locations, then the importance and
10 the role of telehealth, remote patient monitoring
11 and these types of resources and tools, becomes
12 even more important.

13 So, we're seeing throughout the world,
14 including in the United States and from the
15 research that we're doing that there's like a 20
16 percent uptick in the use of connected health
17 devices. And we feel that this number is only
18 going to continue to increase, particularly as
19 more and more people get involved in their own
20 self-management of illness, self-care, as well as
21 the intensified drivers around value-based care
22 and really pushing more of the onus on individuals

1 to become much more involved in taking care of
2 themselves. I think this has huge implications
3 not only for rural areas but also for urban areas,
4 that we need to really look at connectivity in
5 general and what the demands are of the population
6 given the sort of new emerging set of technologies
7 that are coming into the fore and how are the
8 policies and the access to broadband being
9 designed in a way to meet those.

10 I'll pause right there.

11 MS. ONYEIJE: Patty, that's fantastic.
12 What I love is that this phrase broadband as
13 enabler, that's great. Can I ask just one quick
14 question of you? You talked about a 20 percent
15 uptake in the use of personal connected devices.
16 I assume you were talking about devices beyond
17 FitBits and the like. Can you give us a sense of
18 what that is?

19 MS. MECHAEL: Sure. So, for diabetes
20 monitoring we're seeing remote patient monitoring
21 devices and there has been a lot of really great
22 research and evidence in this particular area that

1 really does show better outcomes for individuals.
2 Cardiac monitoring is another big area.
3 Telehealth both synchronous and asynchronous,
4 telehealth consultations and communications is
5 having a significant impact particularly in the
6 areas of mental health and behavioral health.

7 We also know that in some of these areas
8 there are sort of like the dual health challenges
9 that come up. So, individuals with chronic
10 diseases are much more likely to also suffer from
11 depression. So, you do have this sort of double
12 whammy that exists for a lot of people, but then
13 you also have a number of connected health tools
14 and approaches that are out there that can be used
15 strategically to address those.

16 MS. ONYEIJE: That's great. Thank you,
17 Patty. I want to bring Maureen into the
18 conversation now, especially as you started
19 talking about some of these personal connected
20 health devices. Carolyn, would you open the line
21 for Maureen Lewis and announce her please?

22 OPERATOR: Yes, one moment.

1 MS. ONYEIJE: Maureen, are you on the
2 line now?

3 OPERATOR: Maureen Lewis, National
4 Telecommunications & Information Administration,
5 United States Department of Commerce. Please go
6 ahead.

7 MS. LEWIS: Thank you so much for the
8 opportunity to participate today. I wanted to
9 just apologize at the outset that I'm going to be
10 citing a lot of statistics from broadband adoption
11 research that NTIA conducts.

12 We have been studying Americans' use of
13 computers and modems since 1994. We commissioned
14 our first supplement to the current population
15 survey which the U.S. Census Bureau administers
16 but we've been gathering data on the digital
17 divide at varying intervals since 1994. I wanted
18 to let you know that our next computer and
19 internet supplement is scheduled to go into the
20 field in November of 2017 with subsequent surveys
21 planned in November of odd numbered years as our
22 resources permit.

1 So, NTIA's broadband adoption research
2 indicates that in fact consumers are actively
3 engaged in health related activities online, and
4 the data also suggests that health activities can
5 hold some promise for demonstrating the value of
6 internet connectivity to non-adopters. We revise
7 our survey periodically to reflect the changes in
8 the ways that people access and use the internet.

9 So, in July 2013 NTIA began asking
10 respondents about online activities such as
11 seeking medical information online, accessing
12 electronic medical records, and connecting to
13 health plans or providers. Then in July 2015 we
14 added another question about health monitoring
15 services that Patty was just talking about.

16 Because I'm going to be talking a lot of
17 stats I just want to let you know that our
18 complete data sets along with a data explore tool
19 that gives you an opportunity to look at some of
20 this data by demographics and blogs and reports
21 analyzing the data are all available on NTIA's
22 website at www.ntia.doc.gov under our broadband

1 adoption research. So, I'm going to give you some
2 highlights from our 2013 and 2015 data that are
3 pertinent to our discussion today.

4 Internet use at any location by
5 individuals ages 15 and older increased from 74
6 percent in 2013 to 76 percent in 2015. In 2013,
7 percent of internet users, 15 years or
8 older, researched health information online; just
9 two years later in 2015 that percentage had
10 increased almost five-fold to 48 percent according
11 to our data. Between 2013 and 2015 the percentage
12 of individuals 15 or older that accessed health
13 records, insurance information, or communicated
14 with a doctor online grew 20 percentage points
15 from 6 percent to 26 percent. In 2015, which is
16 the first year we began asking about online health
17 monitoring services among internet users ages 15
18 or older, 6 percent used such services.

19 But we also have to be greatly concerned
20 with non- adopters. So, according to NTIA's 2015
21 data, 33 million households, or about 27 percent
22 of all U.S. households, did not use the internet

1 at home where we know that families can more
2 easily share internet access and conduct sensitive
3 online transactions privately. Of that 33
4 million, 26 million households which represented a
5 fifth of the nation's households lacked a single
6 member who used the internet at home or at any
7 other location.

8 Consistently our survey results between
9 2001 and 2015 reveal a consistent pattern of the
10 reasons why households say they don't use the
11 internet at home and number one has always been
12 they don't perceive a need or don't have an
13 interest in using home internet. The second
14 reason according to these trends said service is
15 too expensive, and the third less frequently cited
16 reason is that these households don't have a
17 computer or the one that they have is not
18 adequate.

19 So, between 2013 and 2015 we found that
20 the proportion of households that cited no need or
21 interest as their main reason for not using the
22 internet at home increased percentage points from

1 percent to 55 percent. But the other
2 two reasons actually declined, so those expressing
3 cost concerns or lack of a serviceable computer
4 dropped during that period. Interestingly, these
5 trends were the same regardless of demographics,
6 rural or urban residence, or the presence of
7 school-aged children in the household, although
8 the extent of the changes varied a little bit.

9 Of the 55 percent of households without
10 home internet use that stated a lack of interest
11 or need for the service in our 2015 survey, 60
12 percent of these households reported they did not
13 need a service while the remaining 40 percent
14 expressed just general disinterest in having the
15 service at home. But we think that these more
16 detailed reasons for no-home internet use can help
17 inform the development of policies and programs
18 that address these households' concerns.

19 So, for example, perhaps digital
20 literacy programs introduce non-users to online
21 learning tools on topics that interest them and
22 may stimulate their desire to use the internet at

1 home. For households that perceive no need for
2 the service information about internet
3 applications that enable them to address health,
4 education, or employment needs may persuade them
5 that the convenience and the privacy of home
6 internet access could improve their lives.

7 So, with that I'll stop. Thank you very
8 much for your interest.

9 MS. ONYEIJE: Maureen, thank you very
10 much. You've given us a lot to chew on. And you
11 did warn us right up front, so we appreciate it.
12 Just one quick clarification because obviously we
13 are running short on time. Clearly the trends
14 that you mentioned, some of the trends seem to be
15 trending in the wrong direction from certainly a
16 connected care perspective, but you also talked
17 about 26 million households where there was no one
18 in the household that used the internet at home.
19 We were wondering whether that applied to both
20 fixed broadband and internet use as well as
21 mobile.

22 MS. LEWIS: Yes, well that includes 26

1 million households that don't use the internet
2 anywhere, so that's neither at home or at any
3 other location. So, the type of internet
4 connectivity doesn't come into play at all for
5 these households.

6 MS. ONYEIJE: Absolutely. Thank you.
7 It's not like Ben and I don't have 10 additional
8 follow up questions for you, but let's pause for a
9 minute and have Dr. Galpin and John Peters who
10 lead the Veteran's Health Administration's Office
11 of Connected Care quickly join the conversation at
12 this point. Kevin and John, what we are hoping
13 you can do is given what you just heard can you
14 share briefly some of the underground experiences
15 that you have with successful telehealth models,
16 presumably not related to these 26 million people,
17 and what's working, what hasn't worked? What
18 connectivity challenges are you facing in reaching
19 veterans, particularly those that are living in
20 rural areas?

21 So, Carolyn would you mind announcing
22 our next two participants, Dr. Kevin Galpin and

1 John Peters?

2 OPERATOR: Yes. John Peters from the
3 Veterans Health Administration and Dr. Kevin
4 Galpin from Veterans Health Affairs Telehealth
5 Services. Your lines are open.

6 DR. GALPIN: This is Kevin Galpin. I
7 really appreciate being invited to this forum.
8 Let me just make sure everyone hears me. Can
9 someone validate I am --

10 MS. ONYEIJE: We're hearing you
11 perfectly, Kevin. Thank you.

12 MR. BARTOLOME: Yes, perfectly. Thank
13 you.

14 DR. GALPIN: Great. I'll go ahead and
15 just give you an overview of who we are and what
16 we do. Me, personally, I'm Kevin Galpin, the
17 Director of Telemedicine for the VA. I have a
18 background in internal medicine in clinical and
19 traumatic and have worked in primary care
20 inpatient medicine health and traumatic and
21 telehealth for the Veterans Administration.

22 We do a tremendous amount of telehealth.

1 We find the argument for doing telehealth
2 incredibly compelling as far as our ability to
3 make care more accessible, bringing that
4 appointment out to a rural community, increasing
5 capacity in the organization, moving clinical
6 resources around so we can put providers in areas
7 where they otherwise aren't currently living. And
8 then improving quality; doing some remote type
9 monitoring programs either into the home or in the
10 ICU. So it's really integrated into how we are
11 operating in the organization.

12 Just to give you some of the scope on
13 this, last year we did 2.17 million episodes of
14 care to 900 VA sites; 45 percent of the veterans
15 that got care from telehealth lived in a rural
16 area. We served over 700,000 veterans in 50
17 specialty areas.

18 We do different types of telehealth
19 programs. We do video telehealth, it's called our
20 Clinical Video Program. We've had a long-running
21 success with certainly mental health. Anything
22 that doesn't require a physical examination is

1 pretty straightforward. When I say physical
2 examination, I should say a hands-on physical
3 examination because through telehealth you are
4 doing an examination, but just not a hands-on one.
5 So, lots of success with mental health, but really
6 it's hard with 50 specialties. I would just say
7 broadly if you don't regard physical examination
8 you can pretty much do your comprehensive clinical
9 assessment through telehealth.

10 We've also demonstrated some success
11 with even a primary care model where we have
12 providers on the other side of the counter helping
13 to hold stethoscopes, nodescopes (phonetic). We
14 are moving that type of program out. We do video,
15 we do store and forward type applications programs
16 where you might take an image of a dermatologic
17 rash or the back of an eye in a rural location and
18 have someone look at it, a provider look at it,
19 and then send comments back. And we do a lot of
20 remote monitoring, so we have veterans in their
21 home and they're giving us information on a daily
22 basis either signs or symptoms or responses to

1 questionnaires so we can monitor how they're doing
2 with their care in their home.

3 I think this is really applicable to the
4 conversation, we have mobile medical units and
5 mobile vet centers and so we have trucks that will
6 go out into the community and will park in certain
7 areas and try and serve communities that are
8 traditionally underserved, any place we're looking
9 at a physical building but don't yet have one. In
10 this type of case broadband becomes a big issue
11 because trying to set up the connectivity for
12 these trucks is challenging. And we've seen how
13 important these types of units are in disaster
14 response, certainly over the past month; and the
15 value that a telehealth response can potentially
16 bring to an emergency area if you have the
17 technology, if you have the connectivity.

18 But it would be wonderful to know that
19 wherever we go in the country that we would be
20 able to stop a truck, be able to get connectivity,
21 take care of patients. That is something that
22 clearly we're not close to.

1 I think some of the data that I think
2 people are interested in, and we've talked about
3 the number of encounters, but some of the trends.
4 Just this past year -- and this is part of our
5 major initiative to make care more accessible --
6 we really want to do more and more of health care
7 in the home. We've formally announced our
8 Anywhere to Anywhere Telehealth Initiative in the
9 VA. We really believe that if the veteran wants
10 their care in the home, on their mobile device,
11 while they're travelling, we should be able to
12 provide that care.

13 Our data is supporting that. Through
14 August of this year we did over 55,000 encounters
15 to either home or non-VA locations and that is a
16 percent increase from the year before.
17 We're projecting that we may actually see over the
18 next year, and almost certainly over the next two
19 years, but even next year a 2,000 percent increase
20 over where we are right now. So we think that
21 area of growth is going to be tremendous. We
22 think that there are multiple different types of

1 specialties where patients are going to prefer
2 getting that type of care at a location of their
3 convenience, either in the home, on a mobile
4 device, while they're travelling, et cetera.

5 We've seen success with this. There are
6 some nice published research studies coming out of
7 the VA related to PTSD and the non-inferiority of
8 treatment of PTSD into the home versus traditional
9 care. I think we've had two over the past couple
10 of years.

11 We've also seen cost reduction data and
12 travel reduction data. One study showed that we
13 saved about \$28 per episode of telehealth care at
14 a rural site. And we do pay for veterans' travel
15 in a lot of cases so that's different than private
16 sector. But it was over two hours of drive time
17 for the veteran that was saved for each one of
18 these visits. So, at least in our model there is
19 a very strong return on investment type data that
20 you can see. But from a clinical perspective I
21 think there is mounting evidence that this is a
22 successful way to deliver care.

1 Why this initiative, I think this is so
2 important for us is we have data we've asked our
3 Rural Health Department to produce data about how
4 many veterans -- if we say VA is going to deliver
5 telehealth and care anywhere to anywhere and we're
6 going to push out care into the homes, how many
7 veterans right now can't receive it? That's a
8 critical number for us. When we got our data
9 back, we have about 80- to 90,000 veterans that
10 live in areas where there's either no broadband or
11 no 4G connectivity. These are data based on 2014
12 so it's not quite just yesterday but that's a big
13 number that we'd like to bring down.

14 We believe this should be available
15 everywhere. We'd like our programs to be
16 available everywhere. And this is something where
17 we're looking to other organizations, other
18 departments in the federal government to help us
19 with and say how do we reach those veterans? And
20 we certainly have some contingency plans, but
21 again that's a big important number for us.

22 To summarize, we do lots of different

1 kinds of telehealth and we really want to do more
2 and more into the home. We think that is, again,
3 where we're going to see tremendous -- and again,
4 the number we're looking at is 2,000 percent
5 growth maybe even just over a one-year period.
6 But we have concerns that we can't reach everyone.
7 And we have by zip codes the number of veterans we
8 can't reach right now and that's our big concern.

9 MS. ONYEIJE: Kevin, I have to tell you
10 just these stats alone are pretty compelling, both
11 in terms of what successes you've seen and some of
12 the various models. But that 80- to 90,000 number
13 is a little bit chilling especially since you told
14 us earlier on that you did 700,000 episodes of
15 telehealth. You served 700,000 veterans and we're
16 talking over 10 percent of that patient
17 population. So, I want to thank you for putting
18 that out there.

19 Now, here's what we'd like to do.
20 Obviously Patty and Kevin and Maureen and John, we
21 want you to remain part of this dialogue but what
22 we'd like to do is to go ahead at this point and

1 move to the second segment where we invite all of
2 the participants to, again, either comment on or
3 echo some of the things that they've heard from
4 the three of you.

5 Just to get us started, I'd like to just
6 remind you about the couple of themes that we'd
7 like to put on the table for this segment. There
8 are two broad themes and they're certainly
9 consistent with the material that we've shared
10 with you, there are no surprises here. The first,
11 because we as a Task Force are focused on not only
12 defining the problem but making progress towards
13 solving it, so the first theme is solutions for
14 bridging the broadband health divide. And the
15 second is to think a little bit more about some of
16 the issues that Patty put on the table in terms of
17 emerging issues for policymakers in broadband
18 health.

19 We're going to start with the first
20 issue and we will reserve -- we'll make sure that
21 we get to the second. So, if you want to comment
22 on any of those I would urge you to press * and

1 then 1 on your touchtone phone and you will be in
2 queue and we will recognize you.

3 As folks are queueing up here I did want
4 to say in terms of solutions in reaching critical
5 need areas we as a Task Force have been hearing
6 from various stakeholders particularly in rural
7 communities that while they can see the vast
8 potential of broadband in health along the lines
9 of what Dr. Galpin was saying, they're struggling
10 a bit sometimes to operationalize that vision, and
11 they tell us that part of the problem is that
12 broadband health solutions are not getting to the
13 areas and communities that need it the most.

14 So, here's the question we want to pose
15 to the group: How are states and counties and
16 health departments and tribal nations and other
17 non-profits and philanthropy identifying the
18 specific gap areas, the areas with the most
19 critical need at the intersection of broadband and
20 health? How are we identifying those? And then
21 related to that, do states and local communities
22 have specific broadband health plans, strategies,

1 policies, for addressing these gap areas, the ones
2 with high health need and low broadband access and
3 adoption. So, I put that out on the table, thank
4 you.

5 If you would press * then 1 on your
6 phone we will recognize you. Carolyn, would you
7 announce the first participant?

8 OPERATOR: Yes, absolutely. We did have
9 five more folks join the call. Did you want me to
10 go ahead and announce those names over the call?

11 MS. ONYEIJE: Yes, that would be great.
12 Thank you.

13 OPERATOR: Sure. We have Preston Wise
14 from the Wireline Competition Bureau, Eli Fleet
15 from HIMSS, Dr. Kelly Murphy from FCC, Fred
16 Eastman from Mercy Health Network, and Kevin Loux
17 from SOAR.

18 The response now comes from Chantal
19 Worzala from the American Hospital Association.
20 Please go ahead.

21 MS. ONYEIJE: Hi, Chantal.

22 MS. WORZALA: Hi, good afternoon. Thank

1 you so much for having this call and for all of
2 the work that you are doing on helping to close
3 that broadband health divide. Very exciting work.

4 I did want to give you a little bit of a
5 sense of how hospitals are using broadband and
6 telehealth. We are at a point where this is
7 becoming mainstream and we have 65 percent of
8 hospitals already using telehealth to some degree
9 and another 13 percent have it on their very
10 short-term plans to implement.

11 We hear from our members and
12 particularly those in rural areas that lack of
13 adequate broadband is a huge barrier for their
14 ability to deploy telehealth and remote monitoring
15 solutions to address some of the really
16 challenging health divide issues that you've
17 raised in setting up the call.

18 They do work with their states and local
19 governments but they're also looking to the
20 federal government to help fill in those kinds of
21 blank places on the map. I think the FCC has done
22 a great job in putting together that broadband map

1 where people can look by zip code and by county to
2 understand where the broadband gaps are, and I
3 know that providers in those communities are
4 really very interested in tapping into some of the
5 resources that the FCC has available. So, I do
6 think that the Rural Health Care Program is
7 crucial, the Healthcare Connect Program is
8 crucial, for filling in those white spaces on the
9 map.

10 As you know, the AHA did submit comments
11 earlier this year to really encourage some of the
12 improvements in that program that we think will
13 make it a faster road in terms of spreading
14 adequate and reliable broadband. That includes
15 things like increasing the cap, increasing the
16 discount percentage from 65 percent to 85 percent,
17 and really doubling down on administrative
18 simplification for that program.

19 So, I just want to congratulate you all
20 and thank you all for keeping this issue live.
21 I'll just share that we at the AHA recently had a
22 meeting where we brought 350 leaders from

1 hospitals and health systems across the country to
2 talk about their infrastructure needs among other
3 issues, and of all the infrastructure needs that
4 they thought of for healthcare broadband for rural
5 areas really rose to the top.

6 So, we do have a lot of data that we'd
7 be happy to share with you and we'll certainly put
8 into the docket on how hospitals are using
9 broadband including a very recent set of case
10 examples. But, again, I know that the states and
11 local governments have a role to play in sort of
12 prioritizing broadband needs but cannot
13 underestimate the role of the FCC in really being
14 that resource because as you know government
15 budgets at all levels are really quite strapped.

16 So, thank you for the opportunity to
17 contribute to the conversation.

18 MS. ONYEIJE: Absolutely. Thank you so
19 much, Chantal. I think as the conversation
20 proceeds one thing we might ask you to address as
21 this goes by is really how hospitals are using
22 telehealth beyond the four walls of the facility.

1 You talked about lack of adequate broadband being
2 a potential issue, and what we're trying to hone
3 in on is broadband to whom and where. We heard
4 Dr. Galpin talking earlier about making sure that
5 veterans have broadband access at home so that
6 they can get the kind of care that they need after
7 serving our country. So, getting a sense from
8 hospitals about the future of using broadband to
9 care for patients in their homes, understanding
10 how they're going to scale around remote
11 monitoring, that kind of thing would be very
12 useful. So, if I could ask you to think about
13 that and then pipe back in later we'd appreciate
14 that.

15 MS. WORZALA: Happy to do so.

16 MS. ONYEIJE: Carolyn, could you
17 announce the next participant?

18 OPERATOR: We have Emily Moore,
19 Association of State Health Officials. Please go
20 ahead.

21 MS. MOORE: Thank you. Hi, everyone.
22 My name is Emily Moore and I'm a senior analyst at

1 Health Transformation here at ASTHO. We represent
2 state health officials who lead the state in terms
3 of rural health agencies in this country. We
4 believe that telehealth has a lot of opportunity
5 for both delivery of healthcare as many folks have
6 talked about today, but also for... in public
7 health services who often serve as another safety
8 network for a lot of these important services.
9 I'm really encouraged by being a participant on
10 this to also share that public health perspective.

11 Telehealth is a really big interest for
12 state health agencies. Many have collaborations
13 either as a partner or have developed their own
14 telehealth network using a hub and spoke model
15 between their state and local health departments.

16 So, I actually would like to turn the
17 floor over and if possible Carolyn, the operator,
18 could allow my colleague Suleima Salgado to share
19 her on the ground experience in how she works at
20 the state level to coordinate their broadband
21 connections and prioritizations for these critical
22 need areas.

1 MS. ONYEIJE: Absolutely. Thank you so
2 much, Emily. Suleima, can I ask you to just press
3 * and 1? And while you're doing that I know that
4 there are various folks on the line from state and
5 local government and health departments and we
6 really would encourage you to give us any thoughts
7 you have on this issue about reaching the areas
8 that have the greatest critical needs. Also, I
9 think we have on the line folks from Indian
10 country and we would very much value those
11 perspectives as well.

12 Suleima? I don't know, Emily, if your
13 colleague is on the line.

14 MS. SALGADO: This is Suleima. Can you
15 hear me?

16 MS. ONYEIJE: Perfect.

17 OPERATOR: Suleima Salgado from Georgia
18 Department of Health.

19 MS. ONYEIJE: Hi, Suleima. Please go
20 ahead.

21 MS. SALGADO: Thank you. And thank you,
22 Emily, for allowing me to speak as well. Again,

1 I'm Suleima Salgado with the Georgia Department of
2 Public Health. I run the Telehealth and
3 Telemedicine Program for public health in the
4 state of Georgia.

5 Just a little bit of background. We
6 currently run a hub and spoke model from our state
7 office down to our county health department. Our
8 state is very decentralized when it comes to
9 public health but we do have a great relationship
10 with all of our 159 counties. All the 159
11 counties have access to telehealth through our
12 state telehealth program. We currently have more
13 than 400 endpoints throughout the state of Georgia
14 which are endpoints of anywhere we have telehealth
15 equipment, so we provide a variety of services
16 whether it just be used for telehealth
17 videoconferencing, staff training, professional
18 development. We use it more on the administrative
19 side but we also use it to implement telemedicine
20 programs such as behavioral health, a lot of
21 pediatric services through our Children's Medical
22 Service Program, also through our Women, Infant,

1 and Children Program. So, anything from pediatric
2 complications for asthma, pulmonology, nephrology,
3 pediatric neurosurgery, consultations, sickle
4 cell, we have genetics clinics, infectious disease
5 clinics that we do through our HIV Ryan White
6 Program throughout the state. So, we have
7 probably over different telemedicine programs that
8 we run through our local county health department
9 using broadband and telehealth.

10 As someone mentioned earlier, the access
11 to broadband has been really significant for us
12 and we're really appreciative of the funds that we
13 are getting through the Rural Health Connect Fund.
14 A majority of our program is funded with the
15 rebates that we get through USAC. Our program
16 probably cost us anywhere from \$2.3 to \$2.5
17 million to run per year, and for state government
18 that is a huge undertaking. Normally people don't
19 have those kinds of budgets for telehealth
20 especially in state governments. But with using
21 broadband and having the benefits of FCC funding
22 and the Rural Healthcare Connect Fund in the past

1 we've been able to get the rebate up to 90 percent
2 on these circuits allowing us to justify in our
3 legislative board to have it approve and
4 understand the value of telehealth.

5 In the past couple of months it's been
6 very difficult for us kind of just managing and
7 budgeting and looking at where our needs are and
8 our gaps to continue and sustain such a massive
9 program if those funds were to be cut or limited.
10 I know there's a lot of conversation right now
11 given the fact that we've reached that \$400
12 million cap so I just want to kind of consider
13 that as an option.

14 Most of the districts and counties that
15 we serve, a lot of people don't think of Georgia
16 as having as many rural pockets. But I would be
17 very comfortable to say that at least 50 to 60
18 percent of our state is rural outside of the metro
19 Atlanta area and we really struggle with even just
20 getting broadband up and running in some of these
21 communities. The cost associated with throwing
22 dedicated T-1 lines of any sort in these

1 communities is very high cost for these county
2 health departments so we are already working with
3 very limited funding. We do use the old-fashioned
4 hub and spoke model, we do run dedicated lines
5 which a lot of other states and counties use, the
6 existing broadband at AT&T and the wireless
7 clouds, but in these rural counties they don't
8 even have access to that.

9 So, again, really just realizing that
10 while we are looking at innovative solutions for
11 using broadband in some states and some counties
12 you do have to use the old fashioned antiquated
13 model of kind of how can you even just get
14 broadband into some of these communities. That is
15 a huge gap that we are continuously struggling
16 with any time we kind of just got out there and
17 put telehealth.

18 And we know that there is a need because
19 there are physician shortages. We look at our
20 Obstetrics Department and we know that 39 of our
21 159 counties don't even have an OB/GYN in the
22 state of Georgia. So, we use telehealth and

1 telemedicine to add value to those communities and
2 bring those providers there. But when we get to a
3 place where we're actually ready to build a
4 sustainability plan we realize that the cost of
5 the broadband to get it and to keep it up and
6 running for a year contractor, you know, four
7 years at a time is just way too high for a local
8 municipality to undertake.

9 So, really I guess my request would be
10 to just kind of really look at the cost of
11 assessing this broadband and really knowing that
12 there are still major areas that don't have access
13 to broadband as a whole.

14 MS. ONYEIJE: Are there solutions that
15 you would recommend, Suleima? You had put various
16 things on the table here. You've certainly talked
17 about the power of the technology and how you're
18 leveraging that, but you've also talked about gaps
19 and challenges and I'm curious about any solutions
20 or recommendations that you might have for the FCC
21 and other policymakers on the call.

22 MS. SALGADO: That's a great question.

1 I really think it would be prioritizing the need.
2 So, when we look at the funds and when funds are
3 released is really looking at the priority of how
4 this money is being utilized. So, if the goal is
5 access to rural areas of the state or rural areas
6 who don't have specialty providers and bridging
7 the gap when you look at diabetes. If there are
8 certain initiatives that are kind of priority I
9 think that should be considered when allocating
10 funds. And I agree with everybody else, we've
11 gotten really innovative as to how you can use it
12 but, again, you're using it for rural and metro
13 area who probably already have access to some
14 provider.

15 So I really think prioritization should
16 be kind of key and put in the forefront when
17 looking at how these funds should be spent and
18 really looking at the gap. So, if people can give
19 you a case and say, well, justify why you feel you
20 need broadband and why you should receive the
21 rebate or whatever first, I think that would also
22 kind of help weed out those extra organizations

1 who may not be using it to its maximum capacity.

2 MS. ONYEIJE: Now, that's very
3 interesting. I'm struck by your comment about the
4 39 counties that do not have an obstetrician, if I
5 heard you correctly.

6 MS. SALGADO: Yes, that is correct.

7 MS. ONYEIJE: I am curious, you talk
8 about the prioritizing about needs. Is the Health
9 Department in Georgia doing that, and if so how?
10 How are you -- everyone has some need, and I'm
11 curious if you have found a way to sort of slice
12 and dice this within your state to figure out,
13 okay, who has the most critical needs for
14 telehealth services and here's how we're going to
15 parcel out our time and resources.

16 MS. SALGADO: Yeah, we really in public
17 health have looked at not only social determinants
18 of health but population health as a whole so we
19 look at heatmaps throughout our state. We look at
20 telehealth and telemedicine as a way to add value
21 or to bring services to counties where there
22 aren't any available. So we really rely on our

1 heatmaps and our Medicaid data and our provider
2 data that we get from Medicaid to really notice
3 where those target populations are.

4 So, if a county comes to us and says,
5 hey, we'd like to use telehealth, can public
6 health help us? Or can our local Georgia
7 partnership with telehealth help us? We really
8 look at those heatmaps and say, okay, what are you
9 considering doing? I'll use cancer as a perfect
10 example. We launched a tele-dermatology program
11 in South Georgia because we looked at the heatmaps
12 and the data that came from Medicaid and Medicare
13 and said most of the cancer is coming from
14 southeast Georgia. Well, what's going on in
15 southeast Georgia? Well, there are a lot of
16 outdoor farm workers, day laborers, linesmen, that
17 work in that cluster of the state. Okay. Do they
18 have providers, yes or no? The number of
19 providers available? And then we cross that with
20 Medicaid data and look at those numbers and then
21 determine where those populations were in those
22 pockets. Then we said, okay, providers in the

1 community, is there a cancer provider in this
2 area? No. Okay, so here's where we need to be.

3 So, really looking at your public health
4 data and using the existing resources to determine
5 what the needs are is pretty much how we determine
6 our expansion model and our services.

7 MS. ONYEIJE: That's very helpful. Do
8 you happen to know whether there is a regional
9 plan that's similar to what you're describing?

10 MS. SALGADO: So, we work with the
11 Southeast Telehealth Resource Center that's
12 actually based out of Georgia, but I believe they
13 cover Florida, Georgia, Alabama, and South
14 Carolina. So, we have been partnering with them
15 to look at the data to see kind of where we're
16 going. But since we are specifically focused
17 through public health in Georgia that's kind of
18 been our target. But we do look out to them and
19 ask them for resources.

20 MS. ONYEIJE: Thank you so much,
21 Suleima. We really appreciate it.

22 I think I want to put one additional

1 issue on the table at this point and solicit
2 thoughts generally from the group. I think
3 Suleima talks a lot about funding and maybe we
4 should shift to that for a few minutes. Again,
5 just remember you press *1 on your phone to join
6 the conversation at any time.

7 So, here is the question I would throw
8 out in part based on what I just heard, how are
9 telehealth networks being funded in your
10 communities or nearby communities? Is the
11 funding, like Georgia, primarily federal, is there
12 state funding available, private funding,
13 philanthropy? And if I could ask some normative
14 questions too. Do you believe that we are funding
15 the right things in rural telehealth? Obviously
16 some participants have talked about funding
17 connectivity for healthcare facilities and others
18 have talked about needing connectivity to patient
19 and consumer homes. Are we funding the right
20 thing? What are we doing now and is it the right
21 thing?

22 And then another strand I think we'd

1 like to ask you to address is we've heard from
2 rural and underserved communities that sometimes
3 it's not easy to access the various streams of
4 funding available. The Task Force has had
5 numerous stakeholders especially from rural and
6 underserved areas tell us about challenges that
7 they face in navigating what they have called a
8 patchwork of federal and state funding.

9 So, your thoughts on whether there are
10 ways for federal and state government to better
11 coordinate around telehealth funding, just to make
12 it easier for communities many of whom Suleima was
13 referencing to better access the needed support.
14 If we have thoughts on any of those questions
15 please press * and 1 on your phone.

16 I will tell you that I'm watching the
17 time here, but I do think the funding question is
18 an important one. So, I don't want us to move
19 forward until we've had a chance to talk about
20 that a little bit. I'm sorry folks, we are having
21 some technical difficulties on this end. Would it
22 make sense... Ben -- can you hear me still?

1 MR. BARTOLOME: Yes, I can.

2 MS. ONYEIJE: So, we are having a bit of
3 a technical glitch on this end. Would you go
4 ahead and -- I don't know if you can Carolyn can
5 hear me, but if you would just announce the next
6 participant that would be great.

7 OPERATOR: This is Carolyn. I can hear
8 you over the line.

9 MS. ONYEIJE: Oh, that's great. So,
10 this is not going to be any sort of commercial on
11 whether connectivity works or not.

12 If you can hear me, do folks have
13 thoughts on the funding issues that we were just
14 discussing? If I can just call on Bill England
15 who I know is on the line from HRSA and provides a
16 lot of telehealth funding. Bill, do you want to
17 comment a bit on this issue?

18 MR. ENGLAND: Sure. And I just hit *1,
19 am I on?

20 MS. ONYEIJE: You are, thank you.

21 MR. ENGLAND: Sure, great. Actually, I
22 thought I should go ahead and comment on what

1 Suleima just mentioned about working with the
2 Telehealth Resource Center in Georgia which, yes,
3 does cover a number of states. That's just one of
4 14 telehealth resource centers that our office
5 funds. I think many people on the call are quite
6 aware of telehealth resource centers, but the
7 kinds of things that they're doing in Georgia
8 could absolutely be emulated by a lot of states.
9 And I can say a little bit from my past history of
10 15 years with the Universal Service Program, not
11 all states are coming close to taking advantage of
12 the resources available as I do know Georgia is.

13 But way beyond that, and I will comment
14 that our office provides a variety of grants for
15 telehealth and one thing we don't focus very much
16 on is connectivity because from our perspective
17 the Commission is doing a great job with the
18 Universal Service Program so we're not focused on
19 that. But reimbursement and cost are extremely
20 important issues, how to get money to buy
21 equipment and all sorts of other activities. All
22 I will say on that is look at our telehealth

1 resource centers which cover every state in the
2 country and territories, they are our local
3 experts, our regional experts. They can help
4 point you to sources of funding and have all sorts
5 of training modules.

6 I recently heard from someone that they
7 didn't know how to find what government resources
8 were available for telehealth which was a little
9 bit surprising given where that question was
10 coming from. Grants.gov every week publishes new
11 funding opportunities and simply searching for
12 telehealth there's a number of things being
13 published. We can't really talk about 2018
14 because we don't have a budget yet, but when we do
15 there will be plenty of telehealth opportunities.
16 And it is a lot of work for small health care
17 providers to keep track of that, but for instance,
18 states could be notifying all of its constituents
19 that grants.gov has some telehealth opportunities
20 coming up.

21 MS. ONYEIJE: That's great. Can I ask
22 you to comment on the -- I know you run

1 competitive grants at HRSA where many of them.
2 Can you talk a little bit to the suggestion that
3 came from Georgia about funding programs,
4 prioritizing the needs based on heatmaps and other
5 things?

6 MR. ENGLAND: Well, again, commenting a
7 little bit on sort of my past experience, Georgia
8 noted that they're using a lot of T-1 lines and I
9 think that is probably true for a lot of the
10 bricks and mortar facilities. It doesn't
11 obviously touch the broadband 4G, 5G type stuff,
12 the direct to consumers, but that happens to be
13 sort of a sweet spot in the Universal Service
14 Program that makes it more cost effective than
15 maybe some other services.

16 But, unfortunately, since the Fund
17 that's being referred to has hit its cap the
18 question is some needs are higher than others and
19 there could be a reason to prioritize. Obviously
20 I'm a little biased because I'm in the Office of
21 Rural Health Policy so our focus is very much on
22 rural and our funding authorization safety net

1 which means we're focused on safety net providers.
2 So, we obviously would think those are the most
3 critical needs that have been identified. Sure, I
4 can certainly see -- if there's not enough money
5 to go around then prioritization based on need
6 seems to make a lot of sense.

7 MS. ONYEIJE: Fair enough. So, Bill,
8 I'm going to keep you on the line for a minute
9 because I do think it would be useful to move to
10 our second theme here because I fear we're running
11 out of time. In addition to solutions what are
12 the issues that FCC policymakers and other
13 policymakers at the federal, state, local, tribal
14 sort of levels that we need to be keeping top of
15 mind here and staying ahead of? It's critically
16 important for us; in fact, it's part of the charge
17 of the Task Force to help position the Commission
18 to stay ahead of the broadband health curve. One
19 concern we have obviously is sort of potentially
20 unintended effects of leaving folks behind as
21 connected health becomes more common and the gaps
22 between connected communities and isolated

1 communities become more apparent.

2 If you have any thoughts on what those
3 emerging issues might be I would ask you to share
4 that. And anyone else who has either solutions or
5 issues to share just, again, press *1 and you can
6 join our conversation.

7 MR. BARTOLOME: Karen, I think I'd like
8 to specifically ask Eric Frederick with Connected
9 Nation, if he's on the phone, if he has any
10 thoughts on the theme that you just mentioned. I
11 think that would be helpful.

12 MS. ONYEIJE: Eric, could you press *1,
13 and then Carolyn, can you announce Eric?

14 OPERATOR: Eric is on the line from
15 Connected Nation. Please go ahead.

16 MS. ONYEIJE: Hi, Eric. How are you?

17 MR. FREDERICK: Good. How are you? Can
18 you hear me okay?

19 MS. ONYEIJE: Yes.

20 MR. BARTOLOME: Yes, we can, thank you.

21 MR. FREDERICK: All right, great. As
22 you know, I'm the Community Affairs Director for

1 Connected Nation. We've been mapping and
2 researching and doing community planning around
3 broadband access, adoption, and use for more than
4 a decade now, and we're big participants in the
5 SBI Program that NTIA ran.

6 I think on this topic being able to
7 better identify unserved and underserved areas for
8 broadband access and adoption is absolutely
9 critical. When we switched from NTIA maintaining
10 the national broadband map to the FCC's Form 477
11 data there was a lot of publicly available
12 information, or publicly acceptable information
13 that was lost in being able to examine underserved
14 areas.

15 So, I think improving the scale of
16 mapping availability data so that we can get a
17 little bit more surgical in the areas that we
18 identify as being unserved by broadband, not only
19 for the infrastructure access itself but also for
20 adoption. I think we've come to a point where
21 we've gone as far as we can with the data that
22 we've collected in making general assumptions

1 about who is underserved both geographically and
2 socioeconomically, and I think we need to get more
3 surgical with it.

4 Through our Community Planning Program
5 that we operate at Connected Nation we've been
6 doing very detailed surveys in communities across
7 rural parts of the country in Michigan, and Ohio,
8 South Carolina, Iowa, and other places where we've
9 been asking about healthcare use among residents
10 and sometimes those patterns that we find there
11 don't mirror those at the national level. So, I
12 think being able to better diagnose what areas are
13 underserved by broadband access and adoption as
14 well as being more surgical in how we examine the
15 local community issues will ultimately end up
16 getting more folks connected in leveraging
17 broadband connection for telehealth applications.

18 MR. BARTOLOME: That's great. Eric, I
19 was wondering, you do a lot of work obviously with
20 communities as part of your organization helping
21 to ensure that broadband is available and adopted
22 in the various communities and states. I was

1 wondering, do you think it's more effective for
2 folks like in your organization trying to educate
3 and inform folks on the ground about the value of
4 broadband and particularly broadband health, or do
5 you see a role at the federal level that can be
6 effective in trying to motivate and persuade folks
7 on the ground about the value of broadband health
8 technologies?

9 MR. FREDERICK: That's a good question.
10 I think the answer is there is a role for both.
11 But because we've been working with communities
12 for so long I've found that local community action
13 and support is where the most work gets done.
14 Being able to take information from a federal
15 level and translating that to locals it works
16 okay, but when you start making it personal to the
17 community that you're working in or gathering very
18 hyper-local data for that particular community it
19 suddenly makes it more real so that you're not
20 applying national generalities to a rural county
21 in the middle of northern Michigan, for example.
22 If you can gather information from them and bring

1 local stakeholders to the table like the
2 healthcare providers, public health agencies,
3 residences, businesses and the like to the table
4 it starts to make it a lot more real.

5 So, I think taking federal guidelines
6 and federal best practices and advice that have
7 been gathered from across the country is good but
8 ultimately where the work gets done is translating
9 that to the local level and making it very
10 personal so that communities can develop solutions
11 that work for them since every community is
12 different.

13 MR. BARTOLOME: Thanks, Eric. Karen, do
14 you have any questions? Otherwise we should see
15 who is next in queue.

16 MS. ONYEIJE: Absolutely. Thank you,
17 Eric. We appreciate that. Carolyn, would you
18 announce the next participant please?

19 OPERATOR: Yes. We do have Maria Givens
20 from National Congress of American Indians.
21 Please go ahead.

22 MS. ONYEIJE: Hi, Maria, how are you?

1 MS. GIVENS: Hi, good, thank you. This
2 call has been really informative. I work at the
3 National Congress of American Indians where we
4 advocate for the 567 tribes in the United States.
5 As most of you guys probably know, tribal lands
6 are the most unserved areas in the country for
7 broadband. Coupling with that the federal
8 government's trust responsibility to provide
9 medical services and healthcare to Indian people
10 we really see a really good opportunity here with
11 telehealth solutions.

12 So, we know that the Indian Health
13 Service has been working on this issue through
14 their Telebehavioral Health Center for Excellence,
15 and that started in 2009 and it's been growing
16 ever since then. We're just hoping that the FCC
17 and this Task Force can work together with the
18 Indian Health Service to bridge this divide
19 because what we're seeing with our communities is
20 that, as time goes by, there are more communities
21 that feel even less connected in all facets of
22 life, especially with health.

1 In Indian Health Service, as some of you
2 probably know, the biggest problem is recruiting
3 and retaining qualified professionals, and
4 telehealth is a way that we can really solve that
5 problem, solve the problem for IHS and HHS. This
6 is a way that the FCC through coordinated efforts
7 could really help solve that issue.

8 So, if anyone on the line wants to get
9 in touch with NCAI later about all of this we have
10 a website, ncai.org, and we can definitely help to
11 point you in the right direction for anything
12 tribal telecom or tribal anything. I just wanted
13 to thank you guys for letting me speak here on
14 this call and also just let the Task Force know
15 that Indian country is really interested in this,
16 we really see a whole lot of potential here, and
17 we definitely don't want you guys to forget about
18 Indian country as you move forward on this.

19 MR. BARTOLOME: Absolutely not, Maria.
20 Actually, while I have you on the phone if I could
21 just ask a quick question. You mentioned one of
22 the issues is retention of professionals in Indian

1 country, and I don't know if this is a question
2 you can answer or if it's better directed to the
3 Indian health services at another time, but we're
4 hearing certainly that as you know in rural areas
5 the availability and adoption of broadband-enabled
6 health technology and solutions, such as
7 telehealth and telemedicine, are affected by a
8 variety of different issues and factors like the
9 lack of access to broadband networks, certainly
10 capital resources, hospitals closures
11 unfortunately... [and] you mentioned retention of
12 professionals like physicians. Are those the same
13 issues that are also extant in Indian country or
14 are there any unique issues in Indian country that
15 we should be acutely aware of in trying to close
16 the divide there?

17 MS. GIVENS: I would say that all of
18 those issues that impact rural communities acutely
19 impact Indian country. Then I think the other
20 piece of this puzzle is that there is a federal
21 trust responsibility to provide healthcare to
22 Indian people. So, it's a little bit different

1 than the health system of the rest of the country,
2 but there is a federal responsibility to make
3 these systems work. It's no secret that there is
4 room for improvement at IHS. We think this is a
5 really cool, interesting way to number one bring
6 broadband to communities but also to help fulfill
7 that trust responsibility.

8 MR. BARTOLOME: Okay. Thank you very
9 much.

10 MS. ONYEIJE: Thank you so much, Maria.
11 I'm going to ask if Patty and Kevin and Maureen
12 would mind pressing *1 here. We wanted to get
13 your views on these emerging issues question just
14 from your unique perspectives. Patty, for
15 example, you were talking a little bit about what
16 I would call future proofing issues right at the
17 top of the hour. And I'm curious just from each
18 of you, what emerging issues are you seeing from
19 your perches?

20 So, Patty, are you on the line?

21 OPERATOR: One moment while the lines
22 are opened.

1 DR. MECHAEL: This is Patty again. I
2 think from our perspective at the Personal
3 Connected Health Alliance some of the emerging
4 issues that we're seeing are really around
5 interoperability and the ability to evenly move
6 data from various systems. So, when you're
7 talking about telehealth and now you're
8 introducing remote patient monitoring, and
9 increasingly people want to have their wearable
10 data integrated into their electronic health
11 record and integrated into clinical practice, what
12 we're finding is that making sure that there are
13 clear guidelines and architectures out there that
14 can facilitate safe, secure data exchange between
15 different sources of information.

16 So, that's a real big area that we're
17 seeing coming up, especially if you start to think
18 about like the internet of things where everybody
19 wants everything everywhere they go and they want
20 all of their data in one place which from a health
21 outcomes perspective is going to be really, really
22 critical as well. So, having as much information

1 up to date in the hands of individuals themselves
2 as well as their providers is mission-critical.

3 And then the other one is really around
4 -- and somebody alluded to this before --
5 reimbursement and what actually gets covered and
6 what gets paid for. We are moving into a virtual
7 world in which health-related interactions
8 increasingly are happening very differently than
9 they had in some of the traditional models. So,
10 making sure that the financing and the ability to
11 make sure that healthcare providers are getting
12 paid for the services that they're providing
13 irrespective of where they're located, but also
14 dealing with issues around jurisdiction. So, can
15 a healthcare provider who is board certified in
16 one jurisdiction provide teleconsultations and
17 health services in another one.

18 MS. ONYEIJE: That's fascinating. You
19 mentioned IOT, so I am curious about whether the
20 widespread adoption of things like remote patient
21 monitoring -- I think that Dr. Galpin was talking
22 about the 2000-fold increase that he anticipates

1 in the veterans' space. For things like remote
2 patient monitoring and IOT solutions do you
3 anticipate or do you see ways in which the kind of
4 connectivity that's necessary for all the
5 participants at facilities, patients and
6 caregivers, will change? I think that there are
7 some folks who have been saying that we do need to
8 start thinking about more episodic access to
9 connectivity to address this kind of care
10 delivery, but I'm curious about your views.

11 DR. MECHAEL: I think universal access
12 is an important issue in the same way that --
13 universal access to broadband is important
14 alongside universal access to healthcare and
15 health services. I think those two go very much
16 hand in hand. I think we need to do better
17 assessments of the types of broadband connectivity
18 that are going to be needed in a world where more
19 and more interactions are requiring higher
20 bandwidth and really make informed decisions about
21 where to invest resources and how to invest those
22 resources.

1 So, remote patient monitoring,
2 synchronous teleconsultations, these are
3 increasingly bandwidth-intensive and so if we're
4 moving into a world where we're doing continuous
5 monitoring, which is the recommendation in some
6 healthcare situations, and moving care into the
7 homes I think that's going to require a whole
8 other conversation around bandwidth.

9 MS. ONYEIJE: Very interesting. So, I'm
10 going to pull Kevin back into the conversation
11 here. Are there emerging issues that you are
12 seeing in the veterans' space or that you're
13 observing more generally across the country?

14 DR. GALPIN: I think going back to just
15 into the home that's where we are, and I think the
16 universal ability to have broadband connectivity
17 in some form is what we're really looking to as
18 the next goal.

19 One issue that I don't know if I'm
20 seeing it specifically but I think we all know is
21 an issue is just the idea of clinical capacity. I
22 mean, are there enough providers out there, are we

1 going to see a lot of providers retiring and not
2 being replaced as quickly? Do we have the work
3 force? I think this is another area where having
4 broadband universally available makes a
5 difference. Through telehealth, we strongly
6 believe we can expand the workforce because as
7 people retire part of the reason they want to
8 retire is they want to move to a new location,
9 maybe closer to family or out of a big city where
10 there's hustle and bustle. We want to be able to
11 connect to where the providers are too. So, there
12 are providers that move out to rural communities,
13 they want to live at a lake house and go fishing,
14 and we want to give them an opportunity to
15 maintain work in the medical sector and broadband
16 in rural areas is a way to capture that piece of
17 the workforce and hopefully expand the entire
18 clinical workforce.

19 So, I think the concept of do we have
20 enough providers to manage all the care that we're
21 going to need to have and how do we extend our
22 providers, how do we expand that workforce, and

1 again I think connectivity is one of the ways we
2 do that.

3 MS. ONYEIJE: So, broadband as a force
4 multiplier then?

5 DR. GALPIN: Yes. So, it's not just
6 connecting to the patients but it's connecting to
7 where the providers choose to be.

8 MS. ONYEIJE: Absolutely. Kevin, we can
9 follow up on this, but we would be very interested
10 in getting a more detailed sense from the VA about
11 the kind of connectivity that would work best for
12 your patient population and we could extrapolate
13 from there. So, if I can put a pin in that.
14 Certainly if you can talk about it now that's
15 great, if not we would love to follow up
16 afterward.

17 DR. GALPIN: Let's follow up on that
18 afterwards and I can maybe get one of our
19 technical experts on to go into detail on that.

20 MS. ONYEIJE: Perfect. That's
21 fantastic. Maureen, I don't know if you're on the
22 line still --

1 MS. LEWIS: I am.

2 MS. ONYEIJE: -- but if you have any
3 thoughts on emerging issues, whether on the data
4 side or elsewhere please.

5 MS. LEWIS: I did just want to mention
6 that our 2015 survey data revealed something
7 interesting about multiple device users versus
8 those who just use a single device to connect to
9 the internet. We are finding that people who have
10 multiple connections either using personal
11 computers, tablets, smartphones, tend to conduct
12 more activities online including engaging in
13 health-related activities. So, for example,
14 single device users with smartphones were less
15 likely to seek health information online than
16 personal computer only users.

17 So, I know that a number of underserved
18 communities tend to over-index on the use of
19 smartphones. I just want us to sort of be aware
20 that this is just one data point from one year,
21 and our 2017 survey may shed more light on this,
22 but we may want to be sensitive to how people are

1 accessing the internet based on the devices that
2 they're using. And I know that as we've talked
3 today there is a lot being delivered through
4 smartphone technology but we want to also make
5 sure that, as we are looking to smartphones as a
6 way to deliver more connectivity, that we're
7 perhaps relying on it appropriately and not
8 overemphasizing its utility. It's important but
9 we'll kind of see where the data go in future
10 years, but we're kind of tracking this closely.

11 MS. ONYEIJE: That is a very good point.
12 It comes back to that question of not only the
13 quality but the kind of connectivity that will
14 really be needed to allow consumers in rural and
15 underserved areas and beyond to sort of
16 participate in the connected care future that
17 Patty and others have been talking about.

18 I knew this was going to happen. We
19 wanted to make sure that we were respectful of
20 your time. But before we close the session --
21 because we're right at 3:00 now -- we did want to
22 just open this up to anyone else who wanted to put

1 any other comment or give any other input just
2 press *1 and we will recognize you. We at the
3 Task Force are certainly willing to stay a little
4 bit over if needed.

5 If you would prefer to reach out to us
6 separately we are happy to engage with you
7 offline. That is also another core element of the
8 Task Force's sort of objectives and our charge is
9 to have as broad an outreach to stakeholders
10 across the country as possible.

11 So, we completely understand if folks
12 need to go. We know what we're on various time
13 zones here so we appreciate that. Carolyn, please
14 let me know, I think folks are probably going to
15 reserve their additional comments. I can't quite
16 see any more whether there are folks in the queue
17 or not.

18 OPERATOR: There are no commenters in
19 the queue at this time.

20 MS. ONYEIJE: Thank you. So, what I'd
21 like to do then is to thank you for participating
22 today. This was really an outstanding session and

1 it's given us a lot of food for thought. We
2 greatly appreciate the input that you provided.

3 There are so many things I could
4 highlight here and there are a few that stand out.
5 I heard over and over broadband as an enabler, the
6 drive to move broadband and health from healthcare
7 facilities to the home, that there really is a
8 compelling case for telehealth and we just need to
9 figure out how to make sure that people are not
10 being left behind, to some of the questions about
11 relevance and the fact that health may be a use
12 case that addresses that relevance question, to
13 the issue of physician shortages and broadband as
14 a force multiplier.

15 So, I just want to thank everyone again
16 for their thoughtful input. If you have
17 additional comments you want us to consider please
18 reach out to us at connect2health@fcc.gov or
19 submit more formal comments.

20 There is a wealth of information on the
21 FCC's broadband health hub for those who have not
22 been following our work which is fcc.gov/health.

1 So, for example, the critical need counties that I
2 was talking about earlier -- those are on there --
3 the Mapping Broadband Health in America Platform
4 is available there.

5 And I just want to wish everyone a
6 wonderful afternoon and thank you again for your
7 participation. Carolyn, would you please make
8 final announcements and conclude the session?

9 OPERATOR: Thank you. Ladies and
10 gentlemen, that does conclude your conference for
11 today. Thank you for our participation and for
12 using AT&T Executive Teleconference Services. You
13 may now disconnect.

14

15 (Whereupon, at 3:04 p.m. the
16 PROCEEDINGS were adjourned.)

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