

TRANSCRIPT OF PROCEEDINGS

BROADBAND HEALTH TECH FORUM:)
)
Leveraging the Power of)
Broadband to Address)
Disparities, Drive Health)
Innovation and Spur)
Entrepreneurship)
)
Connect2HealthFCC,)
Wayne State University,)
TechTown Detroit)

AFTERNOON SESSION

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FEDERAL COMMUNICATIONS COMMISSION

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)
 Connect2HealthFCC,)
 Wayne State University,)
 TechTown Detroit)

TechTown Detroit
 440 Burroughs Street
 Detroit, Michigan

Wednesday,
 October 28, 2015

The parties met, pursuant to the notice, at 1:12
 p.m.

PARTICIPANTS:

NED STAEBLER, President and CEO, TechTown Detroit

JILL FORD, Special Assistant, Innovation and
 Entrepreneurship, Mayor's Office

MIGNON CLYBURN, FCC Commissioner

PRIYA GOGOI, Co-Founder and Vice President,
 Research and Strategy, DeNovo Sciences

JAMES MULLEN, President and Founder, Blood
 Monitoring Solutions, Inc.

THOMAS SHEHAB, Principal, Arboretum Ventures

M. CHRIS GIBBONS, M.D., M.P.H., Chief Health
 Innovation Officer, Connect2HealthFCC Task Force

YAHYA SHAIKH, M.D., Connect2HealthFCC Task Force

PAUL RISER, Managing Director, Technology-Based
 Entrepreneurship, TechTown Detroit

PARTICIPANTS: (Cont'd)

JAMES BEASLEY, Manager, Information Systems
Resources; Past Chairman, Detroit Cable
Commission

MONIQUE BUTLER, M.D., Chief Medical Officer,
Detroit Medical Center, Sinai-Grace Hospital

LORETTA V. BUSH, M.S.A., President and Chief
Executive Officer, Institute for Population
Health

ERIC FREDERICK, AICP, LEED AP, Executive Director,
Connect Michigan

MARC HUDSON, Co-Founder and Chief Executive
Officer, Rocket Fiber LLC

PAMELA LEWIS, Senior Program Officer, New Economy
Initiative

PATRICK GOSSMAN, Ph.D., Deputy Information
Officer, Community, Research and Special
Projects, Wayne State University

P R O C E E D I N G S

(1:12 p.m.)

1
2
3 MR. STAEBLER: First of all, thank you,
4 Commissioner. I apologize on a couple of fronts.
5 First of all, I'm not Paul Riser who I think your
6 program says is going to doing the welcome. Paul is
7 our managing director of our host programs here at
8 TechTown.

9 And secondly, the tech people are still
10 working out technical difficulties over here, so pay
11 no attention to the people at the curtain over there.
12 I'm going to stand over here and distract you while
13 they go back and forth and make the camera happen.

14 But thank you so much for coming to
15 TechTown, stay for the Broadband Health Forum and the
16 Fireside Chat with Commissioner Clyburn. We're very
17 excited to have the FCC here. We think this is an
18 incredibly important initiative, and it dovetails
19 really nicely with what TechTown does and what
20 TechTown is all about.

21 People hear "TechTown," and they think,
22 "aha, you commercialize technology, university of
23 health systems," and this is actually absolutely true.

24 We have some great programs that, were Paul here, he
25 would tell you all about because those are his

1 programs.

2 But we run a technology accelerator program.

3 We have an incubation program. You can see all the
4 space that we have for about 40 or so companies that
5 live here, everything from Ragnostic on sectors, so
6 everything from biotech to -- there's a biometric gun
7 lock, to a 3D printing company, and really everything
8 in between.

9 We work with lots of great partners. Some
10 of them are here today, and I'm not going to start
11 pointing them out because I will forget somebody, and
12 then I will get in trouble. But we have great
13 partners in the ecosystem who work on that.

14 But that's only part of what we do here at
15 TechTown. Because, though we were started 15 years
16 ago really on the technology side of things, hence the
17 name; like I think all good entrepreneurs, we looked
18 at our market and realized that there were some gaps
19 that we needed to fill, and we pivoted a little bit to
20 help work on them.

21 So we have a whole series of programs that
22 we call blocks, and those blocks are really the
23 recognition that Detroit entrepreneurs have some
24 different needs, and they aren't necessarily all
25 technology-based.

1 So of the 300 or so companies that we'll
2 work with this year, about half of them won't be
3 technology-based companies. We work in seven
4 neighborhoods around the city, helping entrepreneurs
5 in those neighborhoods to start and to grow
6 businesses. There are SWOTs program, and we run a
7 retail boot camp here every year where we'll help 16
8 or 17 businesses actually get up and going and start
9 businesses right here in Detroit.

10 I like to say, often that TechTown is where
11 the stereotype of the young white male entrepreneur
12 goes to die. And if you look around at our clients,
13 you'll understand why I say that. Because 60 percent
14 of them are over the age of 50. About 60 percent are
15 not white, and about 50 percent are not male. We are
16 very representative of the community that we serve,
17 because we think it's really important to make sure
18 that -- if you're going to have a sustained recovery
19 here in the city, that it is inclusive, and that
20 everyone is participating in it.

21 You can't have a seven-square mile oasis in
22 140-square mile city and think you're going to have
23 sustained prosperity. We need to make sure that
24 everybody is participating in the recovery.

25 So that's just a little bit about TechTown

1 and what we do, and why I think this works really well
2 to have the Commissioner here. And now, I want to
3 introduce somebody from the city who I know shares
4 that sentiment about prosperity across the city,
5 special advisor to Mayor Mike Duggan, Jill Ford.

6 (Applause.)

7 MS. FORD: So I'm excited to be here today,
8 having the opportunity to really talk about how we are
9 supporting innovation in the City of Detroit.

10 I have been a part of thinking in an
11 innovative sort of way and looking at different ways
12 to use technology as a tool to support innovation
13 since the beginning of my career.

14 I actually started off as a computer
15 programmer. After getting my degree in computer
16 science, I went to a company called Trilogy in Austin,
17 Texas, and loved the enablement that came from being
18 able to take ideas and bring them to life by just
19 thinking what I wanted to create and then being able
20 to code it. And I love how we are now enabling people
21 of all ages to have that kind of strength and talent
22 and skill to be able to take their ideas and bring
23 them to life.

24 Starting off as a programmer, I then went to
25 business school at Wharton, and had an opportunity to

1 go and start a company by taking an idea that some
2 students at MIT had been experimenting with: running
3 a business plan competition and giving away funds to
4 companies in Ghana to be able to get those companies
5 to have the opportunity to grow. And then taking that
6 idea and expanding it, and looking at just how big we
7 could actually grow this.

8 And so, I went to Ghana. We took all those
9 ideas that we wrote down on that little napkin and
10 grew this into a company that supported 500
11 entrepreneurs coming through, and funded the
12 companies, and really helped to change the global
13 perspective on entrepreneurship and investment
14 opportunities in Ghana.

15 From there, I took those skills and went
16 into business development and talked about how we
17 could coordinate opportunities from multiple companies
18 together to be able to offer new products and
19 services. And got into bowl games, which is a
20 convergence of video, and sound, and all of these
21 different kinds of elements, all technology-enabled,
22 and all about enabling people to create experiences
23 that are going to touch the lives of people around the
24 globe.

25 So when we think about technology and the

1 role that it plays in innovation, it has multiple
2 layers to it. There's definitely the technology
3 product or service, but there's actually companies
4 that some people may not think of as technology
5 companies that are tech-enabled companies. That can
6 be optimized in terms of the operations that they
7 have.

8 And these companies may be hair salons.
9 They may be restaurants. I mean, think about going
10 into a restaurant and being able to place your order
11 on a tablet. These are innovative ways of integrating
12 technology into companies that may span a wide set of
13 industries.

14 And so, when we look at the kinds of things
15 that we have the opportunities to do as we are taking
16 a new look at the industries and the kinds of
17 companies that are really going to be able to support
18 this new age in Detroit, we are taking a wide glance
19 at all of these things.

20 As we've looked at the kinds of needs that
21 companies have had across the small business spectrum,
22 startup companies, we recognize that they fall into
23 tangible categories. Companies need customers, and to
24 get those customers they need talent. They need
25 space. They need to ensure that barriers are as low

1 as possible to be able to get the business started,
2 when you start thinking about things like permits and
3 licenses, for example, to get businesses started.
4 They need funding so that they can get to all of those
5 different kinds of things.

6 And so, we've been going after those one by
7 one, which the most creative and innovative approaches
8 that we can think. We rolled out the Motor City Match
9 Competition, which is a first-of-its-kind competition
10 that matches the best properties from across Detroit
11 and the best entrepreneurs from around Detroit and the
12 world. We are very fortunate to have partners from
13 foundations as well as federal funding to be able to
14 creatively support this competition. And every
15 quarter, we are putting \$500,000 into Detroit-based
16 businesses.

17 Now, we see this as a way to support our
18 entrepreneurs. We also see it as a way to really
19 invigorate the revitalization of Detroit, by
20 strategically clustering activated companies in
21 commercial spaces. In Detroit, which is very
22 geographically distributed, we have had significant
23 sets of buildings that have not been occupied for long
24 periods of time.

25 And by having the Motor City Match Program,

1 we have an opportunity now to activate these vacant
2 commercial spaces by placing extraordinary companies
3 into these spaces that will then attract other
4 companies. And that will increase the foot traffic.
5 And by doing that, we now are creating the anchors for
6 increased revitalization throughout all of the
7 neighborhoods and throughout all Detroit.

8 And so, that's the Motor City Match
9 Competition. We're also supporting bringing in
10 activities and support for entrepreneurs from around
11 the nation. So the Power Moves Competition, for
12 example was started in New Orleans. I was actually
13 there at the inaugural Power Moves Competition. This
14 competition has been extraordinary at curating a set
15 of minority-run tech, high-growth companies, and
16 giving these entrepreneurs an opportunity to pitch for
17 a variety of funding sources.

18 The Power Moves Competition came to Detroit
19 for the first time this year, attracting and growing
20 an amazing set of entrepreneurs in Detroit, and giving
21 it the opportunity to really showcase the kinds of
22 high-growth and high-tech companies that are run by
23 people of a very diverse set of backgrounds.

24 And so, as we look at the kinds of
25 opportunities that we have here, we recognize the

1 importance of technology companies. We recognize the
2 importance of companies that may be tech enabled. And
3 we recognize the importance of having that convergence
4 of these as well.

5 And so, I'm very excited today about the
6 opportunity to talk about where health and technology
7 will meet, and being able to support all of the kinds
8 of innovation that will come out of the discussion
9 today. So thank you again for coming, and I look
10 forward to any questions you have.

11 (Applause.)

12 MR. STAEBLER: Well, I think we're moving
13 onto a Fireside Chat. We're still having a debate
14 about exactly we're moving on to --

15 (Laughter.)

16 MR. STAEBLER: -- but I blame it all on Paul
17 because is in the other room, and he was in charge of
18 this stuff. So when he gets here in a couple of
19 minutes, we'll all boo him when he comes in.

20 But I'm excited for this Fireside Chat for a
21 number of reasons, not the least of which that Paul
22 and I spend a lot of time talking about urban
23 entrepreneurship and what exactly that means.

24 Our definition -- a lot of people hear it
25 and they think social innovation, blah, blah, that

1 kind of stuff, and it has a decidedly non-bottom line
2 or non-financially motivated bottom line side to it.
3 And I think that's great. I think more people should
4 be doing that, and we should be trying to find more
5 efficient and effective ways to do it.

6 But when we start talking about urban
7 entrepreneurship, sometimes I think that some of the
8 challenges that we're facing, there isn't enough money
9 in philanthropy and government to effect the kind of
10 change we need. We need -- you look around the City
11 of Detroit. Obvious example is you have 80,000
12 blighted properties or abandoned houses. There isn't
13 enough government money in the world to take care of
14 that problem. And that's just one example.

15 But if you bring in a for-profit model to
16 this challenge, and you bring in some technology as
17 well, you can create another stream of capital to help
18 solve some of these problems. So we've been talking
19 about doing an accelerator program specifically
20 designed around for-profit business models and
21 companies that are looking to solve urban challenges.

22 So I think I'm going to get to hear some ideas during
23 this panel that are going to inform some of what we do
24 as we go forward on that front

25 So rather than introducing everybody and

1 having big long speeches, I'm going to shift the
2 burden and ask them to do it themselves. And I'm
3 really just going to ask our panel to come up, and
4 I'll introduce them by name, and as we go through,
5 they can tell you who and why they're here.

6 So we're going to start with Dr. Yahya
7 Shaikh. There we go. And we have Chris Gibbons. I
8 saw Chris. Oh, there we go. Priya Gogoi. Sorry if I
9 got that wrong. James Mullen, and Thomas Shehab.
10 And, of course, I can't forget the Commissioner,
11 Commissioner Clyburn.

12 COMMISSIONER CLYBURN: Thank you so much,
13 Mr. Staebler.

14 While we are setting up and sharing mics and
15 starting off with a very interactive e-conversation, I
16 want to once again welcome each of you for joining us
17 today. This is a very interesting panel, and I'm
18 especially excited about having the ability to speak
19 to a number of people who are on the front lines;
20 business makers, you know, those who are medical
21 professionals, you know, talking about the journey and
22 the challenges that are before us, and much more so, I
23 think, the possibilities.

24 You sense and feel a lot of enthusiasm in
25 this space because we recognize a couple of things.

1 Number one, when we talk about innovation and when we
2 talk about tech corridors, we recognize that if these
3 corridors are in the midst of innovation, if it's not
4 inclusive, then the goals which they promise will not
5 be realized. So, allow this Fire Chat (sic)
6 conversation which we might need a little fire in the
7 next couple of days in terms of warming us up.

8 So let us, you know, fall thaw and really
9 whittle away -- I'm from the South -- all of the
10 preconceived notions about who belongs and how we do
11 things. And I think the people that you have on this
12 panel will help in that.

13 And so, I've got some lead-ins that I was
14 instructed to say to you. I'm going to dispense with
15 that, because you didn't come here to hear from a
16 government official, though I think I'm significant.

17 (Laughter.)

18 COMMISSIONER CLYBURN: You came to hear from
19 five people who are making things happen, and who are
20 very open, and I've talked to them, with working with
21 all of you to continuing and socializing that.

22 So I'm a public servant, obviously. And my
23 main focus, or my main focus has been since my early
24 days in regulation, about the consumer experience.
25 Because often we have a tendency to look at things and

1 make decisions in terms of our mannerisms. And
2 sometimes those decisions, we seem to be divorced from
3 reality.

4 But to help make sure that I am in place, we
5 are identifying, I think, part of our mission, you
6 know, how do we develop compelling solutions with a
7 strong value proposition? We recognize that, you
8 know, these things are not easy. But you, again, are
9 researching, and discovering, and innovating. And you
10 have compelling applications when it comes to all of
11 this.

12 So describe to me, and let's go down the
13 row: who you are and your thinking in your
14 application, how they all are evolving given this
15 dynamic, and given the challenges of the day. So I'll
16 start with you.

17 MR. MULLEN: Well, my name is Jim Mullen,
18 and we incorporated in Memphis, but since then we've
19 kind of found that our priority is far more worthwhile
20 is software. So what we've created is, we've created
21 a system for tracking and monitoring the conditions
22 that blood is shipped in between blood bank and
23 transfusion. And we've been able to give real time
24 feedback as to those conditions, and with alerts so
25 that way blood doesn't leave that temperature range,

1 and -- because blood is sometimes wasted or spoiled
2 when it does leave that one- to six-degree temperature
3 range.

4 And so, we've really been, I guess, we've
5 really built a product around that, and along with the
6 FDA regulations that require that to be constantly
7 tracked. And we've created a real upgrade on the, I
8 guess, the real flawed system that hospitals had been
9 implementing previously.

10 COMMISSIONER CLYBURN: Wow, very good.
11 Things got a little brighter. Look how powerful you
12 are.

13 (Laughter.)

14 COMMISSIONER CLYBURN: And one of the things
15 that I think we may not realize, but if we think about
16 it, you know, I've read some facts, even for you about
17 your background, and about the ecosystem that we're
18 speaking of here. A total of 30 million blood
19 components are transfused annually in America, and
20 blood is often the single largest expenditure at a
21 hospital.

22 And so, you know, it's interesting that you
23 chose this path. I mean, you're a relatively new
24 startup in terms of, again, if you would continue.

25 MR. MULLEN: Yeah. So we started off by

1 working at Vanderbilt University, and so we really
2 identified it as a very niche problem that was
3 happening at Vanderbilt. And we built our product
4 originally based around that, and solely for the
5 purpose of their blood and wastage. And that was
6 because we looked and said even if they waste only
7 like two percent of their blood, they still end up
8 wasting several hundreds of thousands of dollars.

9 And so, we built a product that can do a lot
10 of tracking in the ordered system, but then as we
11 tried to expand that out to some of the smaller
12 hospital, we realized that we were able to capture far
13 more than just the wastage on it. So we expanded and
14 really built one that was able work along with the FDA
15 compliance issues that they had been having.

16 And so, that's where we are right now.
17 We're not only focused as a hardware company serving
18 for wastage, but we catch a far larger plethora of
19 value for our customers. And it's kind of been
20 interesting for us making some of that line up.

21 I guess the real, I guess, struggles that we
22 faced early on was identifying a way that we could
23 reduce the costs of implementing in the hospitals.

24 And so part of what we found is that there
25 are several companies that work off RTLS, which is

1 real-time location systems. And so, they provide
2 infrastructure, or wireless infrastructures through
3 some hospitals as a third party vendor.

4 And so, we've really made an effort to
5 partner with them, so that we're able to catch the
6 benefits of using our software while all the data is
7 uploaded through the infrastructure that's created
8 through both their hardware, their gateways, and kind
9 of the existing infrastructure that they provide in
10 the hospital.

11 COMMISSIONER CLYBURN: So seated to your
12 right is a young lady, and I can say that these days
13 -- it hurts me to be able to say that these days.

14 (Laughter.)

15 COMMISSIONER CLYBURN: Priya Gogoi, who is
16 the vice president of research and strategies for
17 DeNovo Sciences. So, tell me a bit about what your
18 focus is. When you talk about the diagnostic side of
19 the equation, over -- particularly when you are
20 looking at that, it's very appropriate that you two
21 are seated next to each other. Because, again, your
22 device -- correct me if I go off course -- uses a
23 tabletop size device to check a sample of the
24 patient's blood to see if there are any cancer cells
25 present. And we know, again, how devastating that

1 particular disease is.

2 So if you could introduce yourself and
3 expand on that, please.

4 MS. GOGOI: Hi. My name is Priya Gogoi.
5 I'm co-founder of DeNovo Sciences. So to better
6 explain the technology we do, I should start with our
7 story.

8 So usually when you hear of tech companies,
9 they start with technology, but DeNovo Sciences is
10 different. We started with the idea that we want to
11 make an impact in the world.

12 COMMISSIONER CLYBURN: Can everyone hear
13 her? I can hear her fine, but -- here you go, I think
14 you're --

15 MS. GOGOI: So --

16 COMMISSIONER CLYBURN: Whoa.

17 (Laughter.)

18 COMMISSIONER CLYBURN: So we can get a
19 little less -- thank you. Oh, no, please don't.
20 Yeah, we can hear you.

21 (Laughter.)

22 MS. GOGOI: Anyways, so it's a very
23 different story in the way that the co-founders of
24 DeNovo Sciences, we started. Because we wanted to
25 make an impact on the world, but we had no idea when

1 we started. We didn't start with an idea. We just
2 started with a passion that we will do something that
3 will change people's lives.

4 So that's how it started. I'm Indian.
5 Another co-founder is from Iran, and the third co-
6 founder, Chris Seimer, was American. So we were from
7 three different countries. We wanted to make an
8 impact, but we didn't have any money to start with.

9 At first funding was everything I committed
10 from my internship money at Experian, another startup.

11 That was \$10,000 that I had calculated or, you know,
12 kept it aside to keep us running. But we didn't have
13 any funding, nothing. The only way we had to win it,
14 we got it through reading all the business plans
15 competitions.

16 So we created our technology from our
17 kitchen, from my kitchen. So first, we went on to win
18 the Great Lakes Entrepreneurship Quest, \$5,000. We
19 had to win it, because there was no other way we could
20 get funding. And then we got like half a bench of lab
21 space.

22 And we went around local professors around
23 the state. We went around to U of M, Eastern
24 Michigan. We asked them, well, we have come up with
25 the top, these ideas. Which do you think has an

1 impact? And people helped us, and through that half a
2 bench of, you know, lab space, we created the
3 technology that helped us to win a half a million
4 dollars Accelerate Michigan grand prize money, which
5 was what started us.

6 So after the winning of Accelerate Michigan
7 money, we expanded. We raised \$5.6 million from
8 Indian investors, and today we have a fully
9 commercialized, you know, automatic machine that can
10 take a tube of blood from a cancer patient, and we can
11 find cancer cells from blood that otherwise we have to
12 take tissue biopsies, which is painful and costly.

13 And from this year, the idea that we
14 started, you know, we wanted to make an impact on this
15 world. So we are going for diagnostics. We are going
16 for an FDA trial so that ultimately our device can
17 reach people and help, the cause that we started.

18 COMMISSIONER CLYBURN: So, Priya, clearly
19 you're just meeting the next person on your right.
20 Dr. Thomas Shehab, is a principal of Arboretum
21 Ventures. And I quote, "We finance more than
22 companies. We finance better healthcare."

23 So Priya mentioned, Doctor, a significant
24 bottleneck for innovation investment, and things
25 getting to market, and solving some of our more

1 chronic problems, and that is finance. So if you
2 would please come from that perspective.

3 DR. SHEHAB: Absolutely. So I'm Tom Shehab.

4 I'm a native Detroiter. I went to medical school
5 just down the road at Wayne State a long time ago.
6 I'm a physician. My background is healthcare exec.
7 And I'm now in venture capital, and I think it's
8 important to tell the story because it potentiates the
9 reason I do that.

10 So I had a very traditional job as a
11 healthcare exec and had the opportunity to come to the
12 venture side of the world to really try to connect
13 capital to the folks with ideas. And part of that
14 was, and I think it's very consistent with the theme
15 today. Healthcare over the last 300 or 400 years has
16 taken places in boxes.

17 So it's a little bit like media. Media came
18 on a TV or it came on a movie screen. It was a square
19 or rectangular box. Healthcare has taken place in
20 buildings and in rooms that are often made of bricks
21 and mortar, and that's where healthcare was and you
22 went to it.

23 Healthcare now has fundamentally changed
24 like it never has before mainly because of
25 connectivity. And I think we're going to see more

1 change in healthcare over the next 10 to 15 years than
2 we've ever seen before.

3 Somebody used the word "customer." Someone
4 used the word "connectivity." We can connect with
5 anybody we want to. We can connect with the FCC and
6 reach the Commissioner via a device, yet you can't
7 reach your doctor, over the last 30 years, via a
8 device, without waiting in a waiting room for a long
9 period of time.

10 So the compelling opportunity for me to be
11 able to help connect folks like the two folks on my
12 left to the funding that helps them to build ideas to
13 really move healthcare forward is really the
14 compelling reason that I now work on the venture
15 capital side, particularly the focus in the upper
16 Midwest in Michigan, and excited Paul asked me to come
17 home to Detroit to be able to speak on it.

18 But I think that the key issue is for those
19 who aren't very close to healthcare, everything you
20 think you know about healthcare I think is being
21 re-thought about right now. The fundamental way we
22 deliver healthcare is going to change more than it
23 probably ever has. Part of it will be technology.
24 Part of it will be the empowerment of patients in all
25 communities to finally get healthcare the way they

1 want it and the way they need it. As opposed to on an
2 8:00 to 5:00, when the doctor is in, and when they'll
3 be able to see you.

4 And I think the connectivity that we're
5 talking about and the ability, whether it be broadband
6 or other ways, to allow us to extend ourselves as
7 healthcare providers and healthcare folks; to our
8 patients. And be able to close some of the gaps that
9 happen based on geography, or social economics, or
10 other determinants of care. I think those walls are
11 going to really be able to broken down by technology,
12 and we're at the forefront of a very exciting lift.

13 COMMISSIONER CLYBURN: So I appreciate that,
14 and please, if you have questions, either we will have
15 cards or someone will walk around with a wireless mic
16 for you to do so. If you could raise your hand. When
17 I tilt my head to the left that's your sign that
18 possibly it's -- and Ben or someone in the room will
19 help facilitate that.

20 Now, you mentioned, Doctor, that the way in
21 which, you know, healthcare and wellness will be
22 delivered, you know, will change and has changed as a
23 result of technology. The way in which approach
24 things from a regulatory standpoint at the FCC is
25 changing, and will change, because of technology and

1 the recognition that this has to be at the forefront,
2 at the epicenter, and all wherever I just left off in
3 that description when it comes to health and wellness.

4 And the next two gentlemen you'll hear from,
5 were brought to the FCC because we recognize that that
6 is the case, that if we don't have the data and the
7 expertise right literally at the click of our mice,
8 that we will be regulating and making decisions in a
9 vacuum.

10 So, Dr. Shaikh, if you would.

11 DR. SHAIKH: My name is Yahya Shaikh. I'm a
12 physician as well. I'm one of the two physicians on
13 the Connect2Health Task Force. My training is in
14 preventative medicine, ER surgery. It's a real honor
15 to be here with entrepreneurs. I was an entrepreneur
16 myself after med school. I had a company related to
17 healthcare, in data analytics and that type of health.

18 And one of the things that's really
19 interesting about entrepreneurship, is that you're
20 always asking the question whether your product is
21 right for the market, and what tweaks you need to
22 make, how to make it happen. And after I got into
23 other things, I realized that that's the same question
24 you ask in every other passage of life. It's an
25 existential question, so you're constantly in an

1 existential crises. So, you're actually in that sweet
2 spot.

3 So I'm glad to be here, but the interesting
4 thing about the entrepreneurs on the panel is that the
5 industry sectors that they're addressing are huge and
6 profound. So, for example, Patrick, you're addressing
7 essentially the IOT in the healthcare sector, where
8 you're managing resource allocation in the healthcare
9 system to reduce costs and optimize outcomes.

10 And what you're doing basically, Priya, is
11 trying to make lab tests available, but we've also
12 heard about where Theranos, where they're instructing
13 people about that lab market. Well, this is very
14 similar, and both of them have a very strong
15 connection with connectivity. IOT is intrinsic with
16 connectivity.

17 Lab tests, much of the cloud computing --
18 much of the computing being done can be shifted to the
19 cloud. In fact, I know a few companies that do
20 something very similar, not exactly overlapping, but
21 very similar, where they reduce costs by shifting
22 analyses to the cloud. So there's a huge market
23 industries, billion dollar industries that this
24 particular panel represents. And I know I've read a
25 little bit about Arboretum Ventures, and the kind of

1 investments that they're making and outcomes that
2 they're expecting is extremely disruptive.

3 So I'm honored to be part of this panel, and
4 I'm looking forward to the conversation.

5 COMMISSIONER CLYBURN: And just, and I
6 didn't give Dr. Shaheb enough credit. So his company
7 was founded in 2002, and they manage about \$450
8 million in capital. And to date, the last information
9 I have, they've invested in more than 35 companies.

10 So, Dr. Gibbons?

11 DR. GIBBONS: Sure. I am Chris Gibbons.
12 I'm also a physician. Like Dr. Shaikh, I trained in
13 preventive medicine and general surgery. And when I
14 started, I also have a startup where we've developed
15 some technology.

16 But let me go back. When I started years
17 ago, I had no background in business. I had no
18 background in coding. I had no background in
19 anything. I just, like Dr. Shehab, saw patients and
20 the problems they were having, and particularly in
21 East Baltimore where I was working, it essentially is
22 an inner city ghetto. Many academic centers are in
23 inner city ghettos, unfortunately.

24 And I was operating on operating on
25 patients, and seeing them in ERs, and treating them

1 when they'd go home, and then I'd see them again in
2 two weeks or see them again in a month. And it was
3 just a revolving cycle over and over and over and over
4 again. And I said, "there's got to be more. We've
5 got to as a health system be able to do something that
6 can stop these cycles and can help."

7 And as I began to look more at that, those
8 answers are largely not in the healthcare system that
9 we had at that time. It's still not there, although
10 we're moving, I think, in the right direction. And
11 so, earlier we were meeting at the iBio Center, and
12 Dr. Wisdom talked to community health workers, and I,
13 too, had stumbled on that model many years ago.

14 And while I do believe technology has
15 profound implications, I think people are also part of
16 the puzzle. It's not just technology. So, community
17 health workers are sort of intermediaries that work
18 between the healthcare system and the community to
19 help translate things.

20 And so, we started a program 10 years ago
21 there. The idea, though, wasn't to do community
22 health workers because that had already been done.
23 The idea was to develop a technology that community
24 health workers could use in the field that it would
25 make what they do even so much more connected to the

1 system.

2 And so, I started down this road as an
3 academic at the time getting grants. I got a grant --
4 I had no idea even what the first stage was to do,
5 kind of like Priya. And the experience has been
6 amazing. I've learned a lot, and the market has
7 changed a lot, so we can talk about all those kinds of
8 things.

9 But I'll just tell you that, that's sort of
10 my background, and ever since then I've become more
11 and more involved in the technology side of the coin
12 both for consumers, but also for physicians. And now
13 most recently, I'm coming at it outside of the
14 healthcare system. As of July 1st this year, I came
15 on board full time with the FCC.

16 COMMISSIONER CLYBURN: So the last two
17 gentlemen you met are very modest, are very connected,
18 and recognize that these intersects that we speak
19 often so eloquently about, but apply often in very
20 siloed, seemingly disjointed sometimes, you know,
21 ways. That, again, these are our experts at the FCC.

22 So I'm bragging a little bit because I
23 wanted you to know that your government is being
24 forward thinking, and honestly challenging ourselves
25 to make sure that we're in sync where the evolution of

1 medicine, of health and wellness, where that is
2 headed.

3 So I want to -- again, if there are any
4 questions. I'm not going to be the traditional, the
5 one that would tee things off. We've got a question,
6 and maybe you will help me with my next question --

7 (Laughter.)

8 COMMISSIONER CLYBURN: -- if you identify
9 yourself. But I really want this to be interactive.
10 You've got entrepreneurs. You've got all
11 entrepreneurs, truthfully, with different backgrounds
12 and from different perspectives. This is a rare
13 opportunity for all of us to engage. And if you
14 identify yourself and tee up your question, we'd
15 appreciate it.

16 MS. VICARS-HOLLOWAY: Okay. My name is Kate
17 Vicars-Holloway, and I'm a nurse that specializes in
18 utilizing innovative technology to improve patient
19 care. And my question is, insurance companies are now
20 reimbursing providers for telehealth sessions.
21 However, it's often unclear where the Michigan
22 regulations are and under which circumstances that
23 these telehealth sessions will be reimbursed by
24 physicians and healthcare providers.

25 And this is very important in our state and

1 this area, which is underrepresented and needs the
2 telehealth. So can you discuss that more?

3 DR. SHAIKH: Well, that's a great question,
4 especially when it comes to this sort of technologies
5 because -- I'll just do intersect with telehealth.
6 And the concept of telehealth is expanding beyond just
7 telemedicine. It's not just a screen on a person.
8 It's also about health monitoring and things like
9 that.

10 CMS came up with codes recently, and a lot
11 of large insurance companies follow CMS's lead. Those
12 codes are, you know, our main telehealth companies are
13 saying that they're not sufficient. And I agree with
14 them; I've seen those codes myself. But then at the
15 state level as well, there are policies of the State
16 Medical Boards, and the state authorities' consent in
17 order to set their own policies.

18 For example, in Florida where we -- in
19 Mississippi actually, there's a huge push towards
20 acceptance, especially from the Governor. He's an
21 advocate of telehealth. And we were there recently as
22 part of for understanding and trying to understand
23 local ecosystems. And they were explaining how, one
24 of the persons, her name is Christina Anderson, how
25 she advocates for this, and she has the Governor as a

1 partner.

2 And I think more of those activities
3 happening at the local level, the state level, can
4 then percolate to the top and inform CMS policies.
5 But then -- but, your question is relevant to
6 reimbursement when it happens for, you know, the
7 panelists here, too.

8 And maybe you can speak on your financial
9 models; because at the end of the day, digital
10 technologies in some way interact with the healthcare
11 system interface at some point in the healthcare
12 system. And so I'm interested to hear what your
13 financial models are and how that is, with the
14 telehealth work.

15 MR. MULLEN: Well, for us, we also had
16 somewhat similar struggles in the way that, there is
17 limited reimbursement for, some of this is specific,
18 and kind of, I guess, innovative as what we were
19 doing. And part of the reason for that is because
20 they looked at kind of where the money and the costs
21 that we were saving comes from.

22 And because we were addressing a wastage
23 issue and because we were addressing a, you know, kind
24 of a streamlining issue, it's not taking it from one
25 specific patient, which is how so many of those

1 reimbursement codes work.

2 And so, currently we're not reimbursed. And
3 part of the reason that we feel that we're not is
4 because it's not addressed specifically to a patient,
5 but more so addressed to kind of a larger subscription
6 model based on the efficiency of the hospital. And so
7 we expect -- the way, I guess, our costs work is that
8 our subscription model is based on the size of the
9 hospital.

10 Because at the larger hospitals, we're
11 capable of saving far more, just based on kind of the
12 work patterns, and the blood that's saved, and kind of
13 logistical hassle, but yeah, of the reimbursement
14 code.

15 COMMISSIONER CLYBURN: So, again, a key
16 element or dynamic was identified as, you know, part
17 of the challenge for more effective delivery. Are
18 there any more that come to mind?

19 And, again, I'd like to have the balance of,
20 you know, challenge and opportunities. And if you
21 could weave into that, some of the unique, you know,
22 opportunities that you foresee. Because there are
23 some, I recognize some people from the last
24 conversation we had. You've got some developers and
25 others and entrepreneurs here that might be at

1 different stages. And all of you were, well, early,
2 you know, still might be light-years ahead of those
3 who might be watching.

4 So if you could, within that lend your
5 perspectives, in no particular order. We don't have
6 to -- that drives me crazy going down the row. So why
7 don't you break the pattern? Somebody jump right in
8 who's not necessarily next to you?

9 DR. SHEHAB: I'll just give a general
10 comment about the issue you're raising, which is; we
11 all know that technology usually will be ahead of the
12 policy. And the policies specifically around
13 reimbursement often lags even further. It's not a
14 criticism at all. It's just a factor.

15 And so, one of the things that I think all
16 of us entrepreneurs is we hear about technological
17 entrepreneurship, we hear about connectedness. I
18 think what's really needed in healthcare is a
19 fundamental redesign of the way that we get to these
20 decisions on reimbursement otherwise.

21 And so, I'd just put that out there that as
22 people think about the technologies, which they're
23 always very important, but they may seem like the
24 sexier type of things. We need some more basic change
25 in policy around: what is the value of telehealth?

1 Does everyone buy into the value, and then where do
2 you take that? It's a zero-sum game on the healthcare
3 and economics. Usually there's only so much that's
4 done in healthcare.

5 You're going to be robbing Peter to pay Paul
6 with that. That may be the right thing to do, but I
7 think all of us in this room, particularly the folks
8 here from the FCC side. The fact that they're here
9 getting our opinions right now, I think, is light-
10 years ahead of what's happened in the past around
11 policy and around healthcare decision-making.

12 But we can all be the voice to argue, and
13 nobody is more compelling than a nurse who provides
14 care to patients, on the intrinsic value of that. And
15 I would just say that we should kind of continue on
16 that moniker as we go forward because reimbursing,
17 when you look at \$100,000 a year versus preventative
18 healthcare with telemedicine, how do you balance that?

19 I don't have the answer, but I think we all can help
20 to inform that answer over time, you know.

21 COMMISSIONER CLYBURN: And thank you so
22 much, Doctor, because the purpose of this outreach, of
23 us getting outside of the Beltway, so to speak, is to
24 do that. We recognize that included in those lags are
25 regulatory lags, and often some are for a reason. You

1 know, we want to protect, you know, the consumers
2 from, you know, persons who might be opportunistic and
3 opportunistic alone. But also really have to be
4 careful not to stand in the way of innovative concepts
5 that will address some of these longstanding divides
6 and challenges that we have.

7 So, Dr. Gibbons, I think I saw you, then
8 Priya.

9 MS. GOGOI: So I can give you the side from
10 our revolutionary field, which is liquid biopsy. So a
11 few years back, a few years back, so what we are doing
12 is getting, you know, separating tumor cells from
13 blood. And it was partially reimbursed, but recently
14 they again took it back, which was a setback. So
15 startups have to always, you know, brace itself for
16 bad news.

17 Yes, it was a challenge because we were
18 going into the diagnostics, and this news was
19 disappointing. But that's part of our, you know, part
20 and parcel of startups. When we met FDA, they are
21 saying that, "this is the future." Liquid biopsy is
22 the future. And the government and FDA also needs
23 innovative companies like us to show the way.

24 So we are not afraid. We'll go for clinical
25 trial. We are going to show, and it's a constant we

1 are in. We are together in this.

2 DR. GIBBONS: That's exactly what I was
3 going to say. I agree with both Dr. Shehab and
4 others. The innovation is always going to be ahead of
5 policy, so don't -- I encourage you and I try to do it
6 myself, don't constrain yourself by how you've gotten
7 paid in the past; right? We're still going to have to
8 be paid for innovation, too. But the thing that will
9 drive it best is the value.

10 So if you create something that works,
11 somebody is going to pay for it because it works,
12 right? It's a no-brainer. Now, I know it's not that
13 easy, but that's the reality of the game. Nobody is
14 going to keep paying for something that isn't working.
15 That's why the healthcare system is changing.

16 So think about what's best. Think about
17 what you're doing and how to make it as cost-effective
18 as possible, but don't necessarily constrain yourself
19 with, "how can I be paid." Within the context of the
20 system we've had up to this point.

21 COMMISSIONER CLYBURN: And I think we have
22 another question in the audience. Yes, ma'am?

23 MS. TINA: Good afternoon. My name is Tina,
24 and I'm one of the entrepreneurs who's part of RBC
25 here at TechTown for this class. I actually graduate

1 next week.

2 COMMISSIONER CLYBURN: Congratulations in
3 advance.

4 MS. TINA: Thank you. I'm a personal
5 trainer, and this question is specifically for Dr.
6 Gibbons, but feel free anyone to answer it. What kind
7 of programs do you all have in place for preventative
8 care? Because we talk about all the time what we're
9 going to do after the fact, after someone is sick or
10 after they need the type of services that you all
11 provide. But what about the care and services,
12 educational programs beforehand, specifically in
13 underserved minority communities?

14 DR. GIBBONS: So now I'm in the capacity of
15 the FCC. So the FCC has those kinds of programs. So
16 that -- were you asking me about when I was on the
17 faculty at Hopkins or just in general?

18 MS. TINA: In general.

19 DR. GIBBONS: Okay. So in general, I think
20 you're absolutely right. You struck an area that
21 needs a lot more innovation and a lot more solutions,
22 and there's a lot of opportunity. The financing side
23 is still there. How do you pay for that in the
24 current system? Don't worry about that.

25 I think, and especially for underserved

1 populations, that's the sort of niche that I've carved
2 for myself, especially over the last decade and a
3 half. And so, we can talk offline, but from my
4 perspective, there's not enough there. There's not
5 nearly enough. There are some people working, but
6 much more needs to be done.

7 COMMISSIONER CLYBURN: And you're right.
8 When we talk about it from a regulatory standpoint at
9 the FCC with the particular task force, we don't just
10 say, you know, health in terms of care delivery. We
11 talk about health and wellness. And so, it's really
12 important for us to look at this, the entire ecosystem
13 about, you know, addressing the needs. And hopefully
14 connecting people when it comes to food deserts and
15 other types of other deserts that are preventing or,
16 you know, making things worse in the communities.

17 So it's going to be -- it seems really
18 broad, but I think if you recognize that, you know,
19 all of these components as broad and as challenges
20 (sic) as they may be, if we think about it all as a
21 part of a vast necessary inclusive ecosystem, then we
22 will again, we will have these outcomes.

23 And the rest of it, you talk about
24 reimbursement and the other models. We need to have a
25 very serious series of discussions about making sure

1 that the economic incentives are in line with the
2 results that we want. It's not efficient to, you
3 know, continue this triage, you know, approach to
4 healthcare. And that is what we are attempting to be
5 a part.

6 I think I saw a couple -- the gentleman on
7 my left.

8 MR. GABHART: I'm David Gabhart from Henry
9 Ford Health System. I'm interested in the interface
10 between startup entrepreneurs and health systems. But
11 I wanted to know whether any of you have engaged with
12 the health system in your R&D, and if not, how you
13 might like to connect and collaborate with the health
14 system. Thank you.

15 DR. SHEHAB: I'll take it first, as we're,
16 you know, going to have wearing a venture capital hat,
17 but before that I want to make my comment to Tina.
18 Tina, traditional healthcare is not going to fix what
19 you're doing, so keep doing what you're doing because
20 it's going to people like you who figure out how to
21 deal with that issue. It's not going to be us on the
22 traditional healthcare side, no offense to the
23 healthcare systems.

24 To answer your question, quite honestly I
25 think that we as a venture capital firm work very

1 actively to try to tie our healthcare startups and
2 health systems for a number of reasons.

3 There's a mutual benefit there, in that
4 often the health system is looking for a solution to a
5 problem that someone like a number in this room in
6 this room have started to come up. But it's hard for
7 them to get the bandwidth to be able to talk to
8 someone to get there.

9 On the other end, it's an amazing testing
10 ground to the point that Dr. Gibbons made, which is if
11 you show that it works, then it's going to eventually
12 get paid for. Well, if you can show that it works in
13 the Henry Ford Health System, or a receiving hospital,
14 or at Hopkins, there's a tremendous amount of
15 credibility for that.

16 So there's a mutually beneficial thing. The
17 thing that we have to do is I think close -- all of us
18 -- the gap between the entrepreneur who's coming out
19 of their accelerator or incubator class, and the folks
20 at the large health systems who have that opportunity,
21 and connect those people together. So that's just an
22 editorial comment, but I think hopefully relevant.

23 COMMISSIONER CLYBURN: And time is not going
24 to be on our side, so we're going to entertain, if you
25 would, please raise your hand, up to three questions.

1 We'll get the questions asked. I will ask the
2 panelists to remember them in their own way and
3 incorporate in your closing remarks, you know,
4 addressing the questions and whatever thoughts that I
5 did not help to extract from you today.

6 MR. SIMON: Hello, I'm Robert Simon, Jr.
7 from the Michigan Department of Health and Human
8 Services. My question is more on the fact that we're
9 talking about health disparities that exist in
10 Michigan and nationwide. How is the profit model
11 going to help reduce those disparities?

12 COMMISSIONER CLYBURN: Okay. Any other
13 questions?

14 MR. BRADY: My name is Mike Brady, and I
15 want to understand how would you possibly level the
16 playing field from the young lady is doing services
17 that are actually affecting outcomes and doing well in
18 the community, but is not attractive to the hospital
19 and insurance companies to fund? But, her idea and
20 his idea is much more an attractive innovation idea
21 because, they can reduce their costs and make more
22 money. But how does someone compete and level the
23 playing field?

24 COMMISSIONER CLYBURN: Is there a last one?

25 MALE SPEAKER: One more question?

1 COMMISSIONER CLYBURN: Everybody is acting
2 shy in here.

3 (Laughter.)

4 COMMISSIONER CLYBURN: Is there anything
5 that was not asked of this panel that you would like
6 to? Going once, going twice, sold. Let's do that,
7 Dr. Gibbons if we go down the row and incorporate that
8 in your close, please.

9 DR. GIBBONS: So I could talk all year about
10 this. I won't.

11 (Laughter.)

12 DR. GIBBONS: But let me just say in
13 answering both your question and your question,
14 nothing worth it is easy, right? So I'm not even
15 trying to say this is easy, but I do fundamentally
16 believe it is possible to do both of those.

17 And let me answer it this way. Nike,
18 Reebok, Sony, Nintendo, they figured out how to get
19 money out of low-income communities quite effectively,
20 right? Now, you might argue that those things are
21 wasting people's lives or whatever, but they figured
22 it out. I'm suggesting that those kinds of thinking
23 need to come into healthcare and public health not to
24 extract money, but to find ways to get into those
25 communities because people are already there.

1 You don't have to beg anybody in low income
2 communities to use a Game Boy; right? I just dated
3 myself. So, what's the new one?

4 (Laughter.)

5 COMMISSIONER CLYBURN: Technology is a
6 challenge. Go ahead.

7 DR. GIBBONS: But the point is getting new
8 thinking is not going to happen the way we've been
9 thinking before in medicine or public health. We've
10 got to -- social media is moving people to do things.
11 We just need to get it to move people to do healthy
12 things. And so we can do it.

13 COMMISSIONER CLYBURN: Thank you. Dr.
14 Shaikh?

15 DR. SHAIKH: I agree with Chris. One thing
16 I want to highlight, though, relevant to the question
17 about profit and Tina's question about current
18 services, we're in a very unique time right now.
19 Where, you know, once the ACA was passed, we have
20 several different practice models. So it's not the
21 same model that we had five, six, 10 years ago.

22 We have things called ACOs now that are
23 actually driven by profit, but not necessarily
24 reimbursement by CMS. So, for example, preventive
25 services, the services that may not be reimbursed by

1 CMS right now; the same services that actually you
2 paid for, or even some services might actually be paid
3 for by ACOs. Just because with the ACO you work with,
4 in the model where taking care of the patient in the
5 community is what matters.

6 So telehealth services, even if the state
7 doesn't have a code, even if your insurance company
8 doesn't pay for it; well, at the end of the day,
9 keeping the patient in the community out of the
10 hospital is what pays for itself. So there's an
11 intrinsic benefit to forming up cash for that, for the
12 practice in the clinical setting.

13 So there's a lot of opportunities right now
14 in the charters. The playing field is completely
15 different than it was a few years ago. And I think
16 because we're startups, we have the tenacity to think
17 differently, take the same product it and market it
18 differently. And I think there are places where we
19 can fit in where we can start making monetization
20 models for what our products do.

21 DR. SHEHAB: Just briefly, I think that one
22 thing, the fact that right now in Detroit we have
23 folks in the FCC and the community here bumping elbows
24 and trying to ask that question that Mike Brady asked,
25 I think already is a step in the right direction.

1 DR. GIBBONS: Yes.

2 DR. SHEHAB: I think the second thing is,
3 which is very important is, people realize in
4 healthcare you're going to pay me now or you're going
5 to pay me later. So they're going to have costs on
6 the back end independent of where you are -- urban,
7 rural, inner city, not inner city. And so, I think
8 people are starting to think about that now and look
9 at the costs across the life of someone, and can I do
10 something with Tina up front in preventative to
11 prevent the disease. That's worthwhile.

12 I'll just give you an example. There's a
13 community resource in a couple of cities, one of which
14 is Detroit. We have three centers. It's something
15 that we funded, putting your money where your mouth is
16 called Concerto, which was formerly Fidelis; trying to
17 take care of folks, dual eligible folks, who are
18 Medicaid and Medicare, trying to do that exactly that,
19 Mike, not out in the suburbs, but in the city. We'll
20 see what comes from that, but we feel very promising.

21 So I think there's more light shining on
22 that issue than there's been before. We've got a long
23 way to go, but I feel pretty optimistic that there'll
24 be benefit over time.

25 COMMISSIONER CLYBURN: Priya?

1 MS. GOGOI: My suggestion to your question
2 is that I will give my advice to the young lady. You
3 know, when we started also we had no idea. Life is
4 tough for startups, and if you make your technology,
5 it doesn't matter if it's an attractive technology.
6 It doesn't matter, it's the service.

7 If the customers like it, if there's market
8 for it, you will make it. It doesn't matter. It's
9 always the customer, the need. If you are solving
10 something, a problem, a real need, you'll make it.

11 And the other question was about for-profit,
12 you know, how it will help the healthcare. Well,
13 here's my side. People like us, we have two choices.
14 Either we go into research in academy labs nonprofit
15 and we churn out 10 papers. We don't have any control
16 over what research we do, what we do, but we'll give
17 10 papers. Does it help people? Is it getting to
18 people? No, but we want it, for us to get out
19 technology to the people where it matters.

20 So the fastest way for us to do it, is
21 through profit. We are not after, you know, only
22 money, but this is the way we can create innovation.
23 So that's --

24 COMMISSIONER CLYBURN: James?

25 MR. MULLEN: I couldn't agree with anyone

1 more. It's been -- yeah, it's definitely a struggle
2 to get something new and innovative on the market, and
3 for us it was trial and error. We tried a couple of
4 different profit models before we found one that
5 finally works. And we had to figure out who to
6 address.

7 And I think for a lot of startups, it's
8 going to be the exact same; where you're going to make
9 mistakes in doing that, but those mistakes are always
10 kind of one step in the right direction. And once you
11 do have people who are figuring out, other people will
12 recognize that, and that's how that change, I feel, is
13 about.

14 COMMISSIONER CLYBURN: Thank you. So please
15 join me in thanking the panelists.

16 (Applause.)

17 COMMISSIONER CLYBURN: So in addition to
18 thanking all of you, I'd like thank TechTown and Wayne
19 State for an absolutely incredible, so incredible I
20 can't get it out, today.

21 (Applause.)

22 COMMISSIONER CLYBURN: So you all are here
23 because you recognize that that this is an investment
24 in our future. You are here because you recognize
25 that as great an ecosystem as we might have compared

1 to the rest of the world, that we know in terms of
2 what it's designed to do and what our objectives are,
3 that we have the capacity to do things better.

4 I close with you with the thought that when
5 I was struggling with a speech last week, my chief
6 mentor, who happens to be named, to be James. And I
7 say chief co-mentor because Emily, my mother would be
8 upset --

9 (Laughter.)

10 COMMISSIONER CLYBURN: Talked to me about,
11 he said, "why don't you talk about being either
12 efficient or effective." Now, we have done a
13 phenomenal job in terms of efficiencies. We deliver
14 these systems. They have incredibly changed the lives
15 of millions. But what we have to work on today is
16 being effective, and that makes more ubiquity. That
17 means, you know, having access as well as delivery
18 models that help to cure and improve the outcomes of
19 all.

20 So I say to you, that even though in too
21 many of our places and portfolios, we've done a pretty
22 good job of one, in terms of being efficient -- I
23 think there's a crossroads of efficiency and
24 effectiveness. And I believe you are here because you
25 recognize that there's that crossroads, and we can get

1 phenomenal benefits from that.

2 So thank you very much for this panel. We
3 will move to the next, and I am looking forward to
4 continuing to learn more, and to hear from you after
5 today. It's not going to benefit if this is the only
6 time we interact. Thank you very much.

7 (Applause.)

8 MR. RISER: So stay in your seats, please.
9 The icing of the cake is here before us now, so we
10 have another panel coming up. By the way, I'm Paul
11 Riser, managing director of Tech Based Entrepreneur
12 Programs here at TechTown Detroit, and we're very
13 grateful for each and every one of you being here
14 today.

15 Definitely want to continue this
16 conversation, not only about the intersection of
17 broadband healthcare and IT, but succinctly how it
18 impacts the City of Detroit. And so, I think we've
19 put together a great panel of thought leaders, those
20 with experience and wisdom in this space. And we have
21 James Beasley, who was a past chairman of the Detroit
22 Cable Commission, to moderate this panel. I'm just
23 going to drive on the passenger side, so to say.

24 So I'll help out, and like Commissioner
25 Clyburn noted, I really hope that we continue the

1 engagement of the audience. I really wanted to make
2 sure that the panel that we have represented today was
3 very representative of the city and brought a breadth
4 of different perspectives and experiences.

5 So without further ado, hopefully we have
6 our panelists here, and our main, Dr. Loretta Bush.
7 Loretta is here. And Eric Frederick. I'm sorry.
8 Loretta is actually the president and CEO for the
9 Institute for Population Health, and so it's become
10 resoundingly and very clearly important and understood
11 by me over the last couple of months about talking
12 about this particular summit that we have this
13 representation in the Institute for Population Health
14 in this discussion.

15 Eric Frederick is the executive director of
16 Connect Michigan. Eric is here. Welcome, Eric. Mark
17 Hudson, co-founder of Rocket Fiber, and so we know
18 Rocket Fiber is laying down a tremendous amount of
19 connectivity and lines and gigabit ethernet in our
20 city. And we want to understand that impact.

21 So also Pam Lewis, Senior Program Manager
22 for New Economy Initiative. Patrick Gossman, Deputy
23 CIO, Community Research and Special Projects, from
24 Wayne State University. And Dr. Monique Butler, Chief
25 Medical Officer of DNC Sinai-Grace is also with us

1 here today.

2 So like I said, we have a wonderful panel to
3 really excite and invigorate this conversation. So
4 without further ado, like I said, I know when to get
5 into the passenger seat. I'm going to let the driver
6 come in here. Mr. James Beasley, you take over from
7 here, and I'll help out where I can. If there are any
8 mics -- excuse me, I'm sorry -- if there are any other
9 mics maybe that I can use here in the audience.

10 MR. BEASLEY: All right. Thank you very
11 much, Paul. First of all, I'd like to thank TechTown,
12 the FCC, and Wayne State University for hosting this
13 tremendous day here. It's insightful, and from my
14 standpoint this is how government should work.
15 Government should be a bilateral conversation, and
16 it's for the people, by the people, and created by the
17 people, so we really appreciate you, Commissioner, for
18 organizing this and bringing it in.

19 Now, before I start, I'm going to be very
20 quick because this section here is called the
21 lightning round.

22 (Laughter.)

23 MR. BEASLEY: So before I start, but I'm
24 sort of reminded of the old preacher who got ready to
25 start his trial sermon, and he showed up to the

1 church, and he looked around the church, and there was
2 just one solitary soul sitting in the congregation.
3 And the preacher said, I don't know what to do. He
4 says, I've prepared my sermon, but you're the only
5 person that's here.

6 Well, the parishioner says, "Well, Pastor, I
7 can't tell you what to do. I'm a farmer, not a
8 preacher. When it comes time to feed my sheep, I go
9 out into the field and I feed them." So the preacher
10 was very encouraged, so he stepped into the pulpit and
11 he began to deliver his sermon. And as he began to
12 deliver his sermon, he preached, and he preached, and
13 he preached, and he preached.

14 This booger preached for two hours, and when
15 he mercifully came to the end of his sermon, "he
16 looked out and said, how did I do?" Well, the man
17 looked up at him and said, "well, I can't tell you how
18 you did. I'm a farmer, not a preacher. When it comes
19 time to go and feed my sheep, I go out into the field
20 and feed my sheep. But if only one sheep shows up, I
21 don't dump the whole doggone load on it."

22 (Laughter.)

23 MR. BEASLEY: So it's rare we get a forum
24 like this with this kind of talent, you know, sitting
25 before us, and so I feel myself honored to come here,

1 you know. One more story and we'll get to that.

2 It's like a guy found an alley cat one time,
3 and he brought the alley cat home. He washed the
4 alley cat on up and put perfume on him, made him feel
5 good.

6 Then he took the alley cat down to COBO
7 Center where they were having a cat show. He got
8 ready to register the cat, and the person sitting at
9 the desk said, "Well, listen, this is a pedigree cat
10 show. Why are you bringing this alley cat down here
11 to this pedigree cat show?" The man said, "Well, I
12 just thought the exposure would do him some good."

13 And that's sort of how I feel today. I
14 thank Paul for inviting us down here. This kind of
15 exposure, this kind of power --

16 (Laughter.)

17 MR. BEASLEY: -- is good for my soul. I'm
18 just happy to be here.

19 What I'd like to do is, first of all, I'd
20 like to start out as we go down the panel and have
21 them introduce themselves and give you a little bit
22 more of a background about who they are and what they
23 do. So let's start out with Dr. Butler here, please.

24 DR. BUTLER: Hi. Good afternoon. What a
25 great introduction. It's really nice to be with this

1 group of established individuals.

2 So I'm Dr. Monique Butler. I'm an internist
3 first, but I'm also a physician executive. I'm the
4 chief medical officer at Sinai-Grace Hospital, the
5 only hospital on the West Side of Detroit where we see
6 over 300 patients who come into our doors through our
7 ED, 106,000 visits every year.

8 And computer technology and EMR being one of
9 the most wired systems in the nation with the Detroit
10 Medical Center is pretty important for us. Is it on?
11 Better? Not really. Is that better? It doesn't
12 sound like it's on. Maybe it's me.

13 (Technical interference.)

14 DR. BUTLER: Is this better? I could talk
15 louder. Okay, I'll talk louder.

16 So internist, chief medical officer, Detroit
17 Medical Center, proud to be the chief medical officer
18 of Sinai-Grace Hospital, the only hospital located on
19 the West Side of Detroit. We see over 300 patients
20 who come into our ED every day, who utilize our ED as
21 a primary care center, over 100,000 visits.

22 And the EMR, the electronic medical record,
23 technology, meaningful use from the federal government
24 has been very good to us and very important what we're
25 finding. And we'll get into that, as many of our

1 patients are way more technologically savvy than we
2 give them credit for.

3 MS. BUSH: Good afternoon. I'm not sure if
4 you can hear me on this mic, but I love using my
5 outside voice, so this is probably going to be easy
6 for me.

7 (Laughter.)

8 MS. BUSH: I also have to say that since the
9 doctor made the mistake of saying the words "Game
10 Boy," I now feel much more comfortable in a room full
11 of people who know technology. So I have no place to
12 go but up after that one.

13 (Laughter.)

14 MS. BUSH: So I'm Loretta Bush, and I'm the
15 president and CEO for the Institute for Population
16 Health. We are probably the newest kid on the block
17 in terms of a community health center and an agency
18 that focuses on population health. We became
19 operational on October 1st of 2012.

20 We have an interesting history, those of you
21 who are Detroiters, or who were following what was
22 going on in Detroit at the time. It was during the
23 time when the consent agreement came into place, and
24 we knew that we were facing the possibility of
25 bankruptcy, and were looking for innovative ways to

1 continue to serve the residents of the City of
2 Detroit.

3 At that time, I was the health officer for
4 the City of Detroit, and was approached with the
5 reality that we would need to zero out the public
6 health budget, and was asked to look for a method for
7 doing population-based health going forward. We
8 quickly formed the Institute for Population Health,
9 and the City of Detroit became our first and our
10 largest client.

11 At that point we made history by developing
12 a social entrepreneurial model, and we became the
13 first public health institute in the country to take
14 on all of the responsibilities of a health department.

15 So we took on everything from soup to nuts.

16 As the city has now regained its ability to
17 do those services themselves, we are now in a new
18 situation where we are not only focusing on our broad
19 population health mission, but we are also working
20 more closely now with direct clinical care, but very
21 excited to be bringing a public health and a
22 preventative health and wellness approach to clinical
23 care because that's our background.

24 One of the things that was exciting for me,
25 but I'm sure for a roomful of people who use high

1 technology, just prior to me coming here, with the
2 touch of one button I communicated with over 43,000
3 people about mobile mammography that we will be
4 providing over the next few weeks.

5 So for me, in the past that would've been
6 making a flier, putting it up in various different
7 locations, and hoping that people saw it. Passing it
8 out one by one to patients as they came in or at
9 health fairs, mailing them out and probably getting
10 over 80 percent of them returned because the addresses
11 were no longer good.

12 So now, with the touch of a button, I was
13 able to tell over 40-some thousand people that we
14 would have mobile mammography available for them. And
15 of those 40-some thousand, only six of them came back
16 to me undeliverable. So, you know, when I look at
17 those kinds of things, it's very exciting. And also
18 to be talking about mobile mammography where we're
19 going to take a mammogram into the community, where
20 they can then get a screening and preventative care.

21 So with that, I'll pass on the mic.

22 MR. FREDERICK: Well, thank you, and good
23 afternoon. Thank you for having me here today.

24 Now, for something completely different. My
25 name is Eric Frederick, and I'm the executive director

1 of Connect Michigan, and also the Vice President of
2 Community Affairs for Connected Nation, our nationwide
3 nonprofit organization.

4 And in Michigan, we are a nonprofit and
5 tasked with facilitating the expansion of broadband
6 access, adoption, and use throughout the State of
7 Michigan. We do that through a couple of different
8 ways. We do broadband mapping, research, and
9 community planning.

10 So the key word in what we do is
11 "facilitation." So we're not a broadband provider,
12 although we often get confused for one, and we're not
13 a government entity. We claim a very strange third
14 space between them to help facilitate and impact both
15 the supply and the demand of broadband. We don't just
16 look at infrastructure, and today we're really talking
17 mostly about the adoption and the use of technology,
18 particularly in healthcare.

19 I come from the world of urban and regional
20 planning, so I like to take a very comprehensive look
21 at things. So when I say that we do community
22 planning, we work with 54 counties across the State of
23 Michigan to examine their comprehensive access,
24 adoption, and use of broadband and technology.

25 So we're not only focused on infrastructure

1 in rural areas and ultra high-speed connections in
2 bigger cities, and we're not just concerned about
3 residential adoption of technology. We're also
4 concerned about how municipalities are using
5 technology in communicating with the public, how the
6 healthcare sector is using technology and
7 communicating with the public.

8 We're also looking at things like public
9 safety, and libraries, and community serve
10 organizations, and agriculture producers, and higher
11 education, and K-12 education. So we really do take a
12 comprehensive look at broadband technology access,
13 adoption, and use in that community. So the
14 perspective I bring today, and we'll probably get into
15 this a little bit later, is, you know, trying to break
16 down some of those barriers to adoption and use,
17 particularly with regard to healthcare information.

18 And we do that via very intimate community
19 conversations, and the collection and analysis of
20 hyper-local data so that we can get very surgical --
21 pun intended -- with the way that we prescribe
22 solutions to overcoming some of the barriers that we
23 find in our communities.

24 MR. HUDSON: My name is Mark Hudson. I'm
25 the co-founder and CEO of a company called Rocket

1 Fiber. We're a brand-new internet service provider in
2 the City of Detroit.

3 We deploy cutting-edge fiber optic
4 infrastructure through much of downtown Detroit, and
5 we're actually now building out mid-town. Our
6 internet speed is roughly 100 times faster than the
7 current residential average in the U.S. today, so it's
8 the analogy of going from dial up to cable to DSL.
9 We're making that same leap forward with fiber optic
10 internet in Detroit.

11 So we're really excited to be playing a role
12 in the reinvention of Detroit's economy as we move
13 more towards a technology-based economy. And we
14 actually are bringing our services online later this
15 year, so we're really excited about that as well.
16 We've been working on this project for almost three
17 years now, and to finally bring it online is a really
18 exciting time for our team. We just moved into our
19 new office on Woodward downtown, and we have roughly
20 30 team members.

21 Another perspective that I bring today is
22 that previous to Rocket Fiber, in another lifetime I
23 worked on a health tech startup called Care Chat,
24 which was a communication tool for families with loved
25 ones in assisted living. Tried to build a tool to

1 connect families to the caregivers that perform many
2 of the primary care functions which occur during the
3 day while families are at work. So I have a little
4 bit of perspective on that side as well.

5 MS. LEWIS: My name is Pam Lewis, and I
6 think I'm on the wrong panel because I'm not an alley
7 cat.

8 (Laughter.)

9 DR. GOSSMAN: No, I think they were saying
10 they were the alley cats.

11 (Laughter.)

12 MS. LEWIS: And I'm not an alley cat or a
13 tech expert, so I represent the New Economy
14 Initiative. We are philanthropic funders who have
15 been investing in developing an entrepreneurial
16 ecosystem within the Southeast Michigan Region, and
17 within the City of Detroit.

18 I think I'm here on this panel because we've
19 had the privilege of working with organizations that
20 are supporting the development of healthcare-related
21 ventures. I see Skip Simms here in the audience and
22 others, Rachel with the Forum (phonetic) in Ann Arbor
23 SPARK, and of course Baldwin Tech Town. And they're
24 spending a lot of their time and resources in
25 identifying and supporting ventures.

1 In an entrepreneurial ecosystem, you need
2 business support services. You need mentors. You
3 need capital. You need talent. You need spaces and
4 places. But you also need strategic customer access.

5 And so, what we've been in the business is, of
6 funding those that are providing to the entrepreneur.

7 And I have the good fortune of sitting at a level
8 where I can see all of the different beautiful pieces
9 of this quilt that's happening within this city --

10 (Technical interference.)

11 MS. LEWIS: But I have the distinct
12 advantage of seeing all the different, beautiful
13 pieces of what I call these quilted pieces within the
14 City of Detroit and the region around the innovation
15 and entrepreneurial community. And if we can figure
16 out a way of how to intentionally direct that energy,
17 to address some of the health disparities that sit
18 between downtown and mid-town core of the city and the
19 region --

20 (Technical interference.)

21 MS. LEWIS: -- I think we'd be in better
22 shape. And I'm going to stop.

23 (Laughter.)

24 DR. GOSSMAN: We didn't have that problem
25 until you got the mic.

1 (Laughter.)

2 MS. LEWIS: Like I said, I'm not supposed to
3 be here.

4 MR. RISER: The alley cat strikes back.

5 (Laughter.)

6 (Pause.)

7 DR. GOSSMAN: Well, if Mark Hudson in a
8 prior life -- he's 28 now. I mean, I'm beginning to
9 feel like a millennial; but on the other end, like
10 I've been around for a thousand years. I'm Patrick
11 Gossman. I'm the deputy CIO of Wayne State
12 University, and so I'm very much rooted in information
13 technology, networks, and computing. But as part of
14 my job, I interface with the research side of the
15 house, so I get involved with a lot of the work there
16 at the institute, and a good chunk of that is on the
17 medical side.

18 But the other part of me works on managing
19 nonprofits, of which Wayne State is a health community
20 telecommunications network. And a lot of what we've
21 done with community telecommunications network and
22 then also partnering with Center for Urban Centers,
23 nursing, medical school, medicine group students, we
24 worry about what we can do in the local community that
25 we sit in.

1 And so, a few years ago we partnered with
2 Focus: Hope, National Human Services, Healthcare
3 Coordinating Council, and we got money to train up
4 over 6,000 people in low-income households on how to
5 connect and how to make use of the internet. And some
6 of this got down starting out with how do you --
7 what's a mouse, okay?

8 So one of the things I've learned in all of
9 this is, first of all, I had no idea what people were
10 facing in some of the local community. You know, they
11 couldn't walk to a library. I had the misconception,
12 well, go to the library and you can get access. Well,
13 they can't walk because it's not safe. They have go
14 to go in a taxi to get to a library and internet.

15 I am thrilled. I'm going to -- since you're
16 sitting here, Commissioner; one of the things that
17 we've tried to do with this project is get people
18 connected, and we were able to get about 600 people
19 connected for free with some of the stuff we've put
20 on. But we've never solved the problem of affordable
21 connection. You know, any, AT&T, Comcast, none of
22 them really had a decent program at a low cost.

23 Just recently with the AT&T-DirectTV merger
24 with a little pressure from the lady down in front
25 here I think, AT&T is now going to offer a \$10 a

1 month, which is a critical figure for low income
2 households, for up to 10 megabit of service at the
3 house. That is huge, and it solves one-half of the
4 equation. And, yes, we need to get stronger than
5 that. We need the extra speeds, but that's just huge.
6 That is a leap from nothing to being connected.

7 I'm here because one of the biggest things
8 we've run into is, yes, the affordable access, but
9 having people understand why they even want to be
10 connected. Whether it's for healthcare, or for public
11 safety, or for getting a job, or any of that.

12 And that's one of the biggest things that we
13 face right now. And I think some of our panelists
14 here who've been involve with the training side of it,
15 the training is expensive, but when you have to start
16 out, for some people this is in-house. That's one of
17 the nuts that we need to crack here so we can move
18 this city forward.

19 MR. BEASLEY: All right. Thank you very
20 much. I've got a general question I want to throw out
21 here, and it's sort or relevant to my background being
22 a local Detroiter. And I was pretty, you know, much
23 sort of upset this morning when we saw the ratings as
24 it relates to literacy in the City of Detroit. The
25 new scores that came out says that we still have a

1 long way to go in terms of closing the literacy gap.

2 Now, when we started to think about the
3 implementation of broadband and all the various spin-
4 off applications, what effect does the literacy rate
5 in a city like Detroit has in terms of being able to
6 extend the applications to get the most? And that's a
7 tossup.

8 DR. GOSSMAN: Well, I'll tell you one of the
9 things we ran into with the project trying to get into
10 digital literacy that, yes, there's a large percentage
11 of the population, and I'm sorry I don't remember the
12 number, who had basic English literacy problems. And
13 then one of the comments this morning about the number
14 of immigrants moving in who don't have good English.

15 Yes, basic literacy is an issue. And I
16 think we have like five different programs out of
17 Wayne State, for example, trying to tackle that with
18 different communities. And perhaps some of the others
19 here have been involved with the basic literacy stuff
20 as well.

21 DR. BUTLER: Sure. From a health literacy
22 perspective, you know, as physicians we learn Latin,
23 right, in medical school. And then getting to a point
24 where we are able to bring that information to
25 patients who may have or be reading at a fifth grade

1 level, you can understand that there's a gap. And
2 then when we talk about cultural competency from a
3 physician perspective, especially with a primary care
4 background where we have many of our physicians that
5 are medical graduates. With the differences with the
6 languages, there's more gap.

7 And so, what we've done at the Detroit
8 Medical Center and with Tenet Health is to make sure
9 that from a health literacy perspective, that health
10 education is written. When I first started, at about
11 a sixth grade level. We brought that back to about a
12 fourth grade level, so it's screened. And we make
13 sure that from a cultural competency perspective, that
14 the words that we use and the ability to explain
15 disease processes and how to take medications is very
16 simplistic.

17 But what I also want to say, when I say
18 that, yes, the literacy rates are somewhat astounding.

19 But also, there's a high level of people in our
20 community who can really understand and are much, much
21 more intelligent than the paperwork says.

22 What we really need are physicians,
23 healthcare providers, who sit down, take the time to
24 talk to patients from a health literacy perspective
25 like they're members of our family. Ask them to give

1 it back to us. We teach it, and they teach it back.
2 And then at the end of the day, they understand it.
3 The ability to read on a 12th grade reading level
4 actually is not a factor.

5 So it's really the personal relationship and
6 taking the time to sit down and talk to patients, and
7 making sure that they understand. And then utilizing
8 technology.

9 What we found was meaningful use, and I'm
10 sure many people in the audience know about meaningful
11 use. It's a way for healthcare systems and
12 physicians, providers, to utilize the electronic
13 medical record to be able to get incentives because of
14 the inability to understand writing. From a safety
15 and quality perspective, we know that when we use the
16 electronic medical record and the individuals can read
17 it, then the number of medication errors and hospital
18 errors go down.

19 And so, what we found at the bedside is that
20 many of our patients who come into our hospitals, and
21 their family members, have access to the smartphones.

22 If they are over the age of 70, 80 years old, their
23 grandkids know how to use it. And so, they have
24 access to it.

25 And so, what we've found and what Drexel

1 University just released a paper on is that in the
2 urban community, it's not necessarily lack of access
3 to technology. It's looking at the right type of
4 health information and partnering with some national
5 names or names that individuals in the communities
6 trust.

7 So when, hopefully, when DMC pops up on the
8 smartpone, they trust that name, and we partner and
9 are able to give pieces of information that they would
10 be able to understand and teach back to other people.

11 MS. BUSH: And I'll just add a bit from the
12 population health perspective. Let me say, first,
13 that when Paul and I first talked about me being here,
14 one of the things I said that was exciting is that,
15 you know, a lot of times I don't see these questions
16 being asked until a project is way down the road and a
17 disparity has been created. And then we go, "Uh-oh,
18 we've created a disparity."

19 So to be asking the question right up front,
20 how is broadband and technology going to either close
21 that gap or if it's going to broaden it and what we
22 can do to make it better, make it accessible to
23 everyone.

24 So let me start off with literacy, relative
25 to just English as not a first language. What I saw

1 during the H1N1 epidemic, because from the population
2 health perspective, we're not talking about bedside or
3 patient one-by-one. We're talking about getting
4 information to hundreds of thousands of people all at
5 once. And we were required to be able to communicate
6 with people in every language that they presented in.

7 So if you can imagine, at all of the sites
8 that we're at, we had to have the written material in
9 at least 20 of the major languages, and one of our
10 sites was in Hamtramck where there's a lot of
11 different languages spoken. We had to have access to
12 the call line, where you call up the language line,
13 and they are able to translate.

14 So I can just see that there's probably an
15 opportunity there for technology to improve even that.
16 Because, I mean, we were there with tons and mounds of
17 paper, but to be able to just, at a click of a button,
18 be able to transmit to whatever device they may be
19 coming in there with, into their language, that might
20 be an opportunity for how we expand.

21 I agree totally with Dr. Butler. Many of
22 the people that we see, they have smartphones. Now,
23 the flip side of what we see, though, is that the
24 smartphone may be on today, but off tomorrow. And so,
25 that is something that we do have to keep in mind, and

1 whether or not that smartphone is only working if it's
2 an area where you have free WiFi, and that it does not
3 have a program, you know, package in and of itself.
4 So, there's still some work to be done there. But I
5 also see that it can really help as it relates to
6 literacy.

7 We also try to keep everything at a fourth-
8 grade level, and we want people to become more
9 literate. However, when you look at even packaging
10 instructions, there's a lot of pictorials, and when
11 you're using technology, you can also have things that
12 are in diagrams so that people can understand better
13 how to take medications.

14 What I found is that when people are in our
15 office and we're explaining things to them, they're
16 saying, "yes, yes, I understand." They may sometimes
17 believe that they understand or they may not want to
18 admit to you that they don't understand. However, if
19 they have a piece of technology that when they go home
20 that they're able to refer to it, especially if it's
21 audio, they can listen to it because some regimens are
22 very complex.

23 I started my career when HIV was first on
24 the scene. It was a very complex regimen. Now we're
25 down to one pill a day, but it used to be some 20

1 pills a day, some with meals, some without meals, some
2 refrigerated, some. There's a lot of things to try to
3 understand. The only thing we had in our arsenal at
4 that time was watches that beeped.

5 DR. GOSSMAN: If I could add, on the
6 smartphone, I was just given a figure of 17 percent,
7 the number of people who have smartphones with data
8 packaging. And I think one of things for us, as much
9 as we're into technology, we have to use what people
10 have. And if they've got a flip-phone and they can do
11 text messaging. I mean, I love the thing I heard this
12 morning. Was it Dr. Gibbons who was talking about
13 that? And that's great. In church, everybody pull
14 out your flip-phone and text to this number.

15 So using what people have I think we really
16 need to look at that. And, in fact, I heard somebody
17 yesterday talking about that their hospital is "Three
18 C's" come in, connect, call. However you can get to
19 us, get to us.

20 And so, I think we can look at the future
21 and see where we want to go in broadband can certainly
22 provide an awful lot of access. And all you have to
23 do is say, okay, everybody in here, shut off your cell
24 phones, close up your laptops, and you stay that way
25 for 24 hours. We'd all panic. Oh, my god, you know?

1 Well, most of us I think would, and that's the world
2 that people live in.

3 So, yeah, we're trying to get people into
4 that, but there, you know, that's why we're here to
5 figure out how to.

6 AUDIENCE MEMBER: Can I ask a question? For
7 like, say, a hospital, right, or even a school in the
8 city, right? If you go into a lot of these facilities
9 currently, you still cannot use your cell phones,
10 right? And the hospital is built to meet standards
11 for a new wing and a new tower, and it's built to
12 repel where it, it keeps it in and keeps it out.
13 And/or it's built like a bunker where your phone does
14 not work.

15 How do you guys address the inability to
16 communicate within a facility? Because that's huge.

17 DR. BUTLER: Sure. There are locations at
18 the Detroit Medical Center, primarily at Sinai-Grace
19 Hospital, on the ground level where our operating
20 rooms, and a lot of our radiology is located. And we
21 don't have the great access for broadband and for
22 iPhones or for technology, but we still use pagers.
23 We have pager capability.

24 We have just put together a security alert.
25 And when there are alerts that need to go out to the

1 entire hospital, Code Red or a Code Black alert due to
2 the weather, there are four different ways that our
3 safety officers have put in place to be notified. One
4 is via cell phone, the second is via pager, third is
5 via email, and the fourth is picking up and calling
6 those suite members or those executives, those
7 directors who need to be called right away.

8 And so, you know, in some hospitals on the
9 telemetry units they say, don't use cell phones. Just
10 a couple of years ago, we took all those signs down.
11 We have a new lobby, and in our new lobby and in our
12 ED, and in our ICU; we have full access. It's the
13 older buildings, which we still have some areas, that
14 we can't access. But it's making sure that you use
15 all of the ways to communicate to individuals for
16 emergencies.

17 DR. GOSSMAN: The straight answer to the
18 question, "what do you if you can't get a cell phone
19 signal in a particular place?" Distributed antenna
20 systems. Unfortunately they're costly, and this is
21 something that we've had to look at. Who would've
22 thought when we got this new buildings, you know,
23 energy efficient and what have you that the windows
24 would kill indoor cell phone activity. And that's one
25 of those things that you've kind of discovered.

1 And so, yeah, it is a problem. And, yeah,
2 one of the things we have found, you may not be able
3 to make a phone call, but a text message may get
4 through because it doesn't require as much bandwidth,
5 but, yeah. And, you know, at one point in time the
6 phone companies would actually build distributive
7 antenna systems inside certain areas because they
8 wanted your business, and that era I think is over.
9 And so, we either have to build them or not.

10 Now, there's some work being done to combine
11 WiFi and distributed antenna systems so that you can
12 have cell phone and WiFi in buildings, but, you know,
13 I think we can talk more if you want to on that.

14 AUDIENCE MEMBER: Yeah, if any of you guys
15 want to talk about that, that's what I exactly do.

16 DR. GOSSMAN: So that's why you asked the
17 question.

18 DR. BUTLER: Yeah, well, we talk about our
19 gaps, right? The purpose of this forum is to really
20 look at where the opportunities are and where the gaps
21 are, and there's still a lot of work to be done with
22 technology in healthcare for sure.

23 DR. GOSSMAN: So we can talk afterwards.

24 DR. GIBBONS: I've got a question. You
25 know, we talk about getting services, you know, large

1 low-income populations and, you know, you talked a lot
2 about cell phones, and that sort of technology. Are
3 there other technologies that are even more ubiquitous
4 than cell phones, that you can think of?

5 AUDIENCE MEMBER: Cars?

6 DR. GOSSMAN: No, I don't think so.

7 DR. GIBBONS: Television? Even in very low-
8 income hours, they have two, three, four TVs, and, you
9 know, we killed the aerial TV, so we have pipes to
10 everyone now, through the TV. Now, somebody Google
11 that.

12 (Laughter.)

13 DR. GIBBONS: And we've got TVs almost
14 everywhere. Actually, the Nielsen company reports
15 that through device conversions, so watching TV
16 content on your phone, on your tablet, or on your TV,
17 they can reach almost 99 percent of the population.
18 Still not 100 percent, but it's very good.

19 I'm just wondering what you think about the
20 potential for delivering services to people in
21 marginal communities through their televisions, not
22 just -- because now TV is interactive, right? The
23 phone company knows how to get you your bill in your
24 language so you know what to pay. So it's not passive
25 TV anymore. I think it's a tremendous opportunity,

1 and I wonder what you think.

2 MR. HUDSON: So my only counterpoint to that
3 is, I still think TV is somewhat passive. Because
4 unless you're talking IP TV or internet connected
5 television, it's still a one-way communication.
6 You're not communicating with that. You're not
7 broadcasting it back to the TV station or the content
8 producer.

9 So you could still have an avenue to reach
10 people through TV, which is probably under-utilized,
11 but as far as being interactive, that's still a
12 challenge. But as we're seeing the way that TV is
13 evolving to internet protocol television, your Apple
14 TV, your Chromecast, all these other devices that
15 really are kind of this evolution phase right now with
16 people really uncertain about where TV is going.
17 We're uncertain at Rocket Fiber, and we're building
18 our own TV platform, so it's something that we put a
19 lot of research into to kind of predict where TV is
20 going.

21 And we think it is going to be delivered
22 over the internet in the future. It already is today;
23 and it's going to more diverse types of content that
24 you can deliver over TV. But traditional TV, over the
25 air TV is still a challenge. If you're talking about

1 cable TV or satellite TV, then maybe there's a way
2 that we tap into that, satellite internet.

3 MR. BEASLEY: Mark, can I ask you a
4 follow-up question to that? The fact that you're
5 building such a high speed, robust, imminent network
6 here, what is your vision of the spin-off benefits by
7 having such a fast medium?

8 MR. HUDSON: Yeah, that's a great question.
9 So was like an inspiration for Rocket Fiber. It
10 happened in January 2013. We saw fiber went live in
11 Kansas City and the first stories in the medium Kansas
12 City ran were about entrepreneurs who had moved to
13 Kansas City from all over the country.

14 So from San Francisco, from New York, the
15 traditional startup hotbeds, had moved to Kansas City,
16 which is not a traditional startup hotbed, and -- just
17 to use that next generation infrastructure, people had
18 ideas of being the next YouTube, the next Netflix five
19 to ten years before the infrastructure is more
20 ubiquitous around the country.

21 So we thought, if it worked for Kansas City,
22 why couldn't it work here in Detroit. Especially as
23 we're just starting to see some of the technology
24 investment happening downtown. We thought it would
25 just throw gasoline on that fire, and that was really

1 the inspiration for Rocket Fiber.

2 MR. BEASLEY: Thank you very much. Yes,
3 sir?

4 AUDIENCE MEMBER: Yeah, I had a question for
5 Mark and Dr. Lewis. As it relates to the target group
6 you're going to offer, are you just going to offer
7 just the high speed fiber, or are you going to offer
8 services that go along with that?

9 Are you going to, actually going to be
10 looking at doing like a deluxe service, becoming the
11 local exchange in that actual building? And will you
12 offer any kind of help services, as it relates to when
13 someone moves in or gets your fiber. Will it just be
14 the technology; or will some services kind of be
15 wrapped around it as well?

16 So, someone moves in the building, they get
17 a health and wellness type of portal. They get a
18 fiber type of portal. What type of services had you
19 planned on offering, since you're going to be the
20 fiber provider that you can put any type of content
21 you want in there.

22 MR. HUDSON: Yeah, that's a great question.
23 So we've always said once we build the infrastructure,
24 the sky is the limit. We can do anything that we can
25 dream up on that type of connectivity.

1 So day one, we're just starting with
2 internet; TV will be online early next year. We've
3 talked about what additional cloud-based services that
4 we can launch on top of that. So that's where we come
5 into telemedicine, whether it's teleconferencing with
6 your doctor, applications are going to be built right
7 into Rocket Fiber TV. So it's just an app on your
8 television; you open it up and do a consultation with
9 your doctor is case study, one example.

10 We've also looked at tying it to other
11 things, so if your smart home or your home becomes
12 smarter. I can tell you my own personal story about
13 that. I just kind of went on a smart home binge in
14 the last month. I probably bought five or devices.
15 I now have a smart thermostat. My front door unlocks
16 when I walk up to it. I've got a smart home security
17 system that looks like an air freshener -- not really
18 any difference; it's really just a spycam for watching
19 my dog cause trouble while I'm at work during the day.

20 (Laughter.)

21 MR. HUDSON: So those types of services that
22 can also layer on and sell as a software service, once
23 we have the infrastructure built. So there's a lot of
24 potential opportunity. We know we're not going to do
25 all of it within Rocket Fiber. We're excited about

1 the entrepreneurs that are going to come in behind
2 Rocket Fiber and innovative on the infrastructure
3 itself.

4 AUDIENCE MEMBER: This is for you. I know
5 you've mentioned that -- I'm sorry. I know you had
6 mentioned that your meaningful use, and you look for
7 incentives, and this is for the Commissioner as well.

8 What about community organizations who have
9 the same type of engagement, as it relates to
10 meaningful use? They have individuals enrolled in
11 smoking cessations, weight loss. The community
12 groups, like the 501(c)(3)s and the faith-based, they
13 don't have a place to go seek incentives even though
14 they're doing great work. They have large communities
15 that are actually losing weight, eating better, doing
16 the smoking cessations.

17 You have a place to go seek incentives. The
18 insurance companies sometimes, they may help an
19 organization like you. But the group who has really
20 has the relationship, they're the last one on the
21 totem pole, and they scratch for every penny.

22 How do they get some recognition, when they
23 can demonstrate analytics, that they've been doing it,
24 and people are utilizing it, and through technology.
25 How do they find some money to keep their programs

1 going? And so, a lot of times there are hidden
2 compliance webs.

3 DR. BUTLER: Good. Great question. It's
4 the partnership. So in the hospital, medicine is not
5 just within a hospital. And what we're learning with
6 healthcare reform is, really it's the ability to keep
7 patients well.

8 With the Affordable Care Act, we're really
9 focusing in on preventative medicine and making sure
10 that we keep patients who don't need to be in our
11 hospital, out. And it's difficult to say that coming
12 a hospital, a for-profit organization. But what we do
13 know is that there are certain things that we do
14 really well as a hospital, and there are certain
15 things that our partners, our community partners do
16 very well.

17 So, for example, you used smoking cessation.
18 There are incentives tied to patients who come in, and
19 each time we talk to them when they're admitted about
20 smoking. And in addition to that, physicians talking
21 to the patients about helping them about smoking and
22 documenting that. And as long as we have it
23 documented that that conversation has actually
24 happened, and the nurse has checked off that they're a
25 smoker, and not quitting smoking, and what the risks

1 are, then it's tied to an incentive.

2 But, what happens when that patient leaves
3 the hospital and they may need some help with smoking
4 cessation? They don't need help with getting that
5 tobacco patch or the medication to help you curb the
6 craving.

7 And so, at the hospital we focus sometimes
8 just on those patients who come in, but what we're
9 starting to do is reach out into the communities and
10 partnering with different organizations like Greater
11 Detroit Health Council and other organizations that
12 our community directors speak to and are in contact
13 with to make sure that there's a continuity of care.
14 There's only so much that we can do and that we are
15 reimbursed for in the hospital.

16 But those partnerships and aligning with our
17 community resources are paramount to our success once
18 patients leave.

19 AUDIENCE MEMBER: You mentioned Michigan
20 Human Services, and now they have some programs, and
21 they have what's called a HealthNet. And they have
22 parents as well as family members and children, and
23 they've done some very unique and outstanding things
24 as far as engaging that parent because they see them
25 every day.

1 MS. BUTLER: Absolutely. That caregiver.

2 AUDIENCE MEMBER: Yeah. And so they're
3 searching for funds, and I just want to know, where
4 can they go seeking incentives -- the hospitals can go
5 to CMS and Health and Human Services -- where can they
6 go seek incentives to continue their work?

7 COMMISSIONER CLYBURN: So I'm hoping some of
8 those examples that you give, there are other helpful
9 sort of portfolios where things are happening. Like,
10 Doug mentioned one company that is about to offer some
11 different and more affordable services.

12 There's another company that has a couple of
13 years on them. They have been partnering with other
14 groups in the community doing certain things. You
15 know, maybe that's a type of model where different
16 companies, different healthcare organizations can
17 follow and have different either trials, or programs,
18 or whatever, and see what works, because, again, it's
19 going to be incumbent upon that our unlikely fellows,
20 or I should say partners. I'm a political candidate,
21 so we use those things that might not go over well.

22 (Laughter.)

23 COMMISSIONER CLYBURN: But, you know, those
24 alliances that we hopefully can bring about or
25 encourage will come from different places. The

1 traditional model, respectfully, has not worked
2 effectively. And so, when do we do so, I really am
3 hoping some things that we see in other portfolios
4 will be replicated and expanded.

5 I wanted to talk about -- usually don't
6 mention companies online, but you inspired me to talk
7 about that because, again, it is not just about
8 health. It's about wellness.

9 MS. BUSH: I'd like to use an example,
10 though, because you spoke about faith-based
11 organizations and various different organizations that
12 are doing the work on the ground. So I'll tell you
13 about a partnership that occurred right here in
14 Detroit. The partnership is with the Coca-Cola
15 Foundation, so usually people gasp, "oh, my god, who
16 partnered -- " Well, yeah, but the Coca-Cola
17 Foundation, they wanted to do something around
18 reducing childhood obesity.

19 The Institute for Population Health believes
20 in play, getting people out, children out with
21 physical activity. What kid wants to hear about their
22 BMI, and reducing their caloric intake to 500. What
23 they want to do is run, jump, play -- or should, and
24 they want to use food as fuel and to burn energy. So
25 we were able to get that grant, but we can't do it

1 all.

2 So we partnered with 40 churches in the City
3 of Detroit. You have the kids. Most of the time your
4 parking lot is empty except on Wednesday for Bible
5 study and Sunday for church. We needed the kids
6 playing outside during the good weather months and
7 inside during the cold weather months, so the kids
8 would be playing.

9 We paid for play coaches. The church had to
10 identify play coaches, because when children say --
11 when you tell a kid, "go outside and play," and they
12 say, "I don't know what to do, I'm bored," they really
13 don't know what to do.

14 They've lost the passion for play, the
15 language of play. They don't know skipping, jumping,
16 four-square, relay racing. They knew none of that.
17 And many of the coaches that the churches identified
18 had to be re-taught all of these activities so they
19 could have structured play activities. Thereby they
20 burn calories as opposed to storing them, and they
21 were up moving.

22 So, we had no expectation that Blue
23 Cross/Blue Shield, or Molina, and I'm just naming
24 those because those are the two that those are the two
25 that -- were set up to pay for that. So we sought a

1 different partner, because childhood obesity needs to
2 be addressed.

3 And so, I think that I'm saying the same
4 thing that was, you know, said earlier. We have to
5 broaden our mind beyond, you know, some of the
6 traditional players -- payers, I should say -- and the
7 traditional activities, in terms of reaching out to
8 other partners.

9 Certainly we could've done some, but we
10 could not have reached the same number of children and
11 families that those churches reached over the course
12 of the year.

13 AUDIENCE MEMBER: Do you put tools in their
14 hands to implement those kinds of activities?

15 MS. BUSH: Thank you for asking. That's
16 what we did. With the grant, we also bought jump
17 ropes, balls, those kinds of things. Nothing
18 expensive, no, not whole steppers or any of that. It
19 was, you know, it was balls and jump ropes.

20 COMMISSIONER CLYBURN: It was old school.

21 MS. BUSH: It was old school. Thank you,
22 Commissioner. Yes, and it was hula hoops. That's the
23 one I was trying to think. And if you haven't tried
24 to do that in a while, it's not as easy as you think
25 just because you did it as a kid.

1 (Laughter.)

2 MS. BUSH: It takes a lot of coordination
3 and energy, and it burns those calories. So we did
4 hula hoops, balls, jump ropes.

5 COMMISSIONER CLYBURN: And it's not just me
6 -- because I tried.

7 (Laughter.)

8 COMMISSIONER CLYBURN: And I used to be very
9 good. Things have changed.

10 (Laughter.)

11 MR. BEASLEY: Let me ask a quick question as
12 it relates to some of the emerging technologies that
13 we're seeing out here with consumer devices, like
14 FitBit and other biometric devices there. How do we
15 see that interfacing in with broadband and connecting
16 into the medical, so we can do more proactive
17 assessment?

18 MR. FREDERICK: Yeah. Not so much on the
19 healthcare side, but better understanding how those
20 devices are being used in the community, and what the
21 -- the current level of understanding of those
22 devices. Because when you start talking about Apple TV
23 and the other types of applications and hardware that
24 come along with some of these really innovative
25 things, when you're talking about video communication

1 with your doctor, you're talking about being able to
2 use Skype and other applications.

3 So it goes beyond basic digital literacy
4 when we're talking about how to, you know, how to use
5 a mouse. Now we're talking about teaching a whole
6 host of other things. So one of the things that we
7 tried to do through our community engagement program
8 is to, again, be very precise in how we're assessing
9 that community's digital literacy.

10 We don't just ask them about, you know, "do
11 you know how to use a desktop, a laptop, a mouse, and
12 a keyboard." We also include questions about, you
13 know, "how comfortable are you with wearable
14 technology, or IPTV, or VoIP applications."

15 And, again, one of the very first
16 communities that are participating in our survey
17 research to do this is Spartanburg County, South
18 Carolina. And that is playing to the host here a
19 little bit since she's from South Carolina.

20 (Laughter.)

21 MR. FREDERICK: So I could go into my
22 research and tell you, you know, how comfortable
23 people over the age of 50 using wearable technology.
24 How comfortable are they with the VoIP. What kind of
25 broadband connection do they have at home? We can

1 look at it by income. We can look at it by geography.

2 We can also look at what libraries and community
3 service organizations might be able or available in
4 that community to host training on these different
5 devices.

6 So before we go through and implement some
7 of these great and remarkable cutting-edge ways of
8 getting healthcare information out there and education
9 out there, you know, it's imperative to better
10 understand the community that you're going into. So
11 that you don't run into digital literacy problems down
12 the road as you're trying to innovate your programs.

13 DR. GOSSMAN: And I wish you would've picked
14 a different age than 50.

15 (Laughter.)

16 DR. GOSSMAN: But I do have a comment, but
17 you first.

18 MS. LEWIS: Well, I don't know if this may
19 get us a little bit off track. But I'm listening to
20 this conversation and we've gone from literacy,
21 digital literacy, to microfiber. And I'm looking at
22 who's in the room from representatives of hospitals,
23 to service providers, to people that support
24 entrepreneurs.

25 And in this region, there's so many

1 intellectual assets that are so strong, in terms of IT
2 and in terms of healthcare. When I look at the
3 entrepreneurial ecosystem that we've funded, you know,
4 a quarter of the people that are being supported are
5 in the healthcare life science space, another quarter
6 in the IT space. Yet there's a city that sits in the
7 middle between Ann Arbor and downtown, of individuals
8 that have all these health disparities, and a lot of
9 these disparities that you guys are describing.

10 What I don't necessarily see happening yet,
11 but I think would be an opportunity, is to better
12 inform the innovators with the real issues of the
13 citizens. To more intentionally shift -- because
14 right now the entrepreneurs are focused on their
15 solutions, right, that they're passionate about that's
16 going to build their companies.

17 What if we could focus that interest and add
18 to that the information that's being informed by the
19 community of the issues that they need to be
20 addressed, and then to have them go back to that in an
21 intentional way? Not to disrupt or derail their
22 progress, but to add to it.

23 And I just feel like there's this huge thing
24 that's missing, and an opportunity that we might miss,
25 if we don't begin to have that conversation of how to

1 better connect innovation and entrepreneurial assets
2 that we've been growing here in this community for the
3 last 10 years -- there goes the mic again. All right.

4 That we've been growing over the last 10 years to the
5 issues that sit within the city.

6 And it's not just health disparities.
7 There's transportation issues; right? There's food
8 access issues. There's health issues. And the
9 universities that sit around this city have all the
10 intellectual capacity in the world to address them.
11 They already are. U of M, with advanced
12 transportation. You know, Wayne State with
13 healthcare. U of M with healthcare, Michigan State
14 with food. They're all right here.

15 So let's figure out a way to be better
16 informed. To connect the message that you have with
17 the patients you're dealing with, with the data you
18 have to the innovators like Mark here, to really begin
19 to direct their innovations toward addressing those
20 solutions. Because otherwise it's like this big
21 boiling -- I get overwhelmed sitting up here
22 listening, you know.

23 It's like a big boil the ocean type
24 conversation. Where do you start? And is there some
25 place that we can start, in a small way, to begin to

1 build that bridge between the innovator and the person
2 having the issue?

3 DR. GOSSMAN: What she said.

4 (Laughter.)

5 DR. GOSSMAN: I was going to basically say,
6 it's not so much what we see emerging now, but I would
7 like to see something where we haven't talked much at
8 all about what I call senior citizens. I'm over 60,
9 but I don't believe I'm there yet. But, the ones who
10 can't deal with these small screens, that can't deal
11 with the itty bitty buttons, that don't know what a
12 mouse is.

13 We need to create, and maybe there's been
14 more work done here, but I don't enough, on really
15 simple, easy to use devices that just do, that just
16 do, that just work, so on the healthcare side or
17 whatever.

18 And, yeah, there are some people we're never
19 going to capture, but I think there are a whole group
20 of people that if we developed the right things. But
21 I think there was a comment earlier today about, well
22 and it was from our folks from public health, yes,
23 right over here, believe it or not, saying, "hey,
24 where are the people from the community to tell us
25 what they need." And so, yeah.

1 And some of that is going on in different
2 places. Our Institute of Gerontology spends a lot of
3 time. There was a lot of talk today about the
4 community health workers and what they know. So
5 tamping that and bringing it back, we need to maybe
6 put together a forum to match that up.

7 MS. BUSH: However, I do have to say, we do
8 needs assessments, and then needs assessments sit on
9 the shelf. Or folks who are designing things don't
10 know about these needs assessments and don't utilize
11 them. Because from the other side of the coin, you
12 know, how many times are you going to keep asking the
13 community the same question and then doing what you
14 want to do anyway?

15 So, you know, there have been forums where
16 it is the community. There have been formal needs
17 assessments where people are saying, "this is what I
18 really need."

19 But I think what happens is that when we
20 hear what people really need, we feel overwhelmed and
21 scared, and we go back and keep doing what we've been
22 doing. Because the things that they say they need are
23 many times much more complex to address than what we
24 were taught in medical school, the school of public
25 health, IT. And how do you -- it really has, a lot of

1 different things have to be brought together because
2 people are not experiencing their lives in silos. So
3 how do you convince --

4 And I know this is my issue because I do
5 believe in health in our policies and looking at
6 everything from a health lens. So when I hear
7 "transportation," I think "health." When I hear of a
8 food desert, I think "health." When I hear
9 "education," I think "health."

10 Because all of these things are going to
11 impact your health right down your zip code, which I
12 see someone in the audience that did the research that
13 showed your zip code is a better indicator of how soon
14 you'll die than your genetic code. We did that work
15 right here in Detroit. She worked with us on doing
16 that.

17 So these are very complex things, you know.

18 So we ask the community. We do these needs
19 assessments. We put them in binders, and we run off
20 and don't utilize them. I'm not saying we do it
21 enough, maybe not; but it has been done. But then we
22 go and do what we've always been trained to do, or we
23 don't get it into the hands of these very young men
24 sitting and saying, you know, this is what people are
25 saying they need. So if you're going to do some optic

1 blah, blah, Game Boy --

2 (Laughter.)

3 MS. BUSH: -- then these are the things that
4 people are saying that they need.

5 COMMISSIONER CLYBURN: I think that this is
6 so appropriate, and if you'll allow me to be a little
7 rude, you know, to end that. You know, people
8 recognize gain, and if we are truly insincere about
9 some of the things that we're addressing, that will
10 be, you know, will be figured out very quickly. But,
11 again, you're here because that is not your makeup, so
12 I don't really --

13 And as a part of that makeup, I'm a PK. I
14 jokingly say I'm a PK on a politician scale. So, you
15 know, because of that I want to recognize one
16 politician I hope who will embrace that because it's
17 not a negative, Councilman Dave Leland, who represents
18 the 7th District in your area. And he is a member of
19 a task force --

20 (Applause.)

21 COMMISSIONER CLYBURN: -- who's addressing
22 these focus areas. And, Councilman, you might not
23 have been able to take part in this entire morning and
24 afternoon sessions, but what we have committed to do
25 whether has been voiced by the room or not. This is

1 not the last time or the last series of conversations
2 and actions that we will take in order to identify.

3 Again, all of us, time is precious, you
4 know. We have talents in order to deliver to these
5 communities. And we want to make a difference, and
6 we're here because we want to have the tools needed
7 and the partnerships to be formed in order to do so.
8 That exists in this room.

9 So when we come back in the not-so-distant
10 future, you know, all of these betas and all of these
11 -- remind me --

12 MS. LEWIS: Proof of concepts.

13 COMMISSIONER CLYBURN: Proof of concept -- I
14 always have to ask her.

15 (Laughter.)

16 COMMISSIONER CLYBURN: Right. She's like
17 what are you talking about? All of these things, we
18 will have some things on the ground that's inclusive,
19 interactive, you know. Our communities are not going
20 to accept the "solutions" if they're not a part of it.

21 In utilities, we have this theme, called
22 sort of a "dig once." And when you, the most
23 expensive thing to do, and you see it outside is to
24 dig things up and be disruptive from that perspective.

25 It's expensive not because of the money you expend,

1 but the inconvenience of the rest of the experience.
2 You want to do that one time.

3 And that means all the variables that are
4 needed, all of the leveraging that can be realized
5 from digging in the ground, all of the infrastructure,
6 fiber and all that. That needs to go all at one time,
7 so it's going to take a community saying, "what all do
8 we need? What do we need to do while the ground is
9 porous to put it down before we lay that cement, or it
10 might not be cement." Whatever we lay on top of the
11 gravel. I don't know. You guys know better than I
12 do.

13 But whatever we drive on, you know.
14 Asphalt.

15 MR. HUDSON: Potholes.

16 (Laughter.)

17 COMMISSIONER CLYBURN: Whatever. Yeah,
18 thank you. Oh, I was right. Thank you. The new
19 stuff is concrete. Thank you. That we need in order
20 to make a difference.

21 So I want to thank all of you. This is, I
22 promise you, the last time you'll hear from me, and
23 all the members of the task force, and all of the
24 people here at TechTown and Wayne State that have
25 truly made a difference, and the panelists, all of

1 you. This really is going to be a part of our report
2 that you will see. We will let you know what we'll
3 birth and continue to be birthed from this.

4 You will have an opportunity to see our
5 intermediate product. You will be able to comment on
6 it, and then we will produce a final product that
7 hopefully will be a part -- not hopefully -- that will
8 be a part of a blueprint for better outcomes. So
9 thank you to our most able emcee. Moderator?

10 (Applause.)

11 MR. BEASLEY: Commissioner, one thing I'd
12 like to share with you here is, as a native Detroiter,
13 we've seen so much disruption occur in the form of
14 democracy. In this town which is disenfranchising
15 people and is acting as an inhibitor to have full
16 impact of broadband and protect the community.

17 Case in point. Typically the percent that
18 the city receives for a cable franchise, it wants to
19 fund public education and government access. In this
20 city, currently, there is no education access or
21 public access. And the downfall of that is, it
22 eliminates a venue like this from being able to reach
23 out to the general public.

24 And at some point in time we'd like to have
25 a conversation with you on how, in the name of

1 democracy, we can put these put these pieces back
2 together so people can get a voice. And that was one
3 of the things we were really responsible for at the
4 Cable Commission was to have all those elements occur.

5 But in the name of politics, you've got two
6 government stations, and the people don't have access.

7 And in a city that needs help in literacy, we need to
8 use broadband to reach out and solve that.

9 One of influences was a gentleman who's gone
10 on to glory, Dr. Frederick George Sampson, and he
11 would say, "Life is not a problem to be solved, but an
12 experience to be lived." And one other point he would
13 always make is he would say, that it's all right to be
14 ignorant. We're all ignorant to something. All
15 ignorance means is you don't know. He said, it's all
16 right to be ignorance. It's just stupid to stay that
17 way.

18 And so we need to know --

19 (Laughter.)

20 MR. BEASLEY: All right, let me go down, and
21 I'd like to have each panelist leave us with their
22 final comments, and that's the problem we have when
23 you have this kind of able panel. There's so little
24 time. So if you could share your parting comments.

25 DR. BUTLER: Sure. Just really quickly I

1 think the one, with running a hospital, the main thing
2 as a physician and a scientist that I'd like to see
3 happen are action points at the end of each meeting.

4 And so, then we bring up the agenda from the
5 last meeting, and we start with the action points from
6 the previous meeting. And we hold individuals
7 accountable to make sure that we're not just sitting
8 in the room talking, and that eventually we start to
9 get to a point where we have some traction around
10 certain issues or certain gaps that we've identified.

11 So I'm hoping, that's how I'll end, that
12 we'll have action points and that we'll have action
13 items. And that this conversation will continue, and
14 the partnerships that individuals have talked about,
15 some of the big organizations that here in the city
16 and that surround the city will start to really begin
17 to happen. So I'm hoping that we'll be able to
18 continue the conversation, and not just talk. It has
19 to be some action.

20 MS. BUSH: I would love to have more
21 conversation about how technology and broadband could
22 really impact the social determinants of health, and
23 that's something that we haven't had time to talk
24 about today. How are we going to deal with things
25 like stress, with social isolation, with the impact of

1 racism, all of the things that we know contribute to
2 better or poorer health.

3 And so, these are not easy conversations to
4 have; but if it was easy, everybody would be doing it.

5 And one of the things that my hero always says is you
6 can do hard things. He always reminds me of that. So
7 just because it's hard, doesn't mean that it's not
8 doable.

9 So how can these technologies really start
10 to address some of the social determinants of health?

11 And I think I heard a little bit about it when you
12 were mentioning Care Connect. Because just having
13 people who are able to talk to people throughout the
14 day, with the project that we're working on, some of
15 them are calling EMS 20 times a day. It's not because
16 they're sick. It's because they're lonely. And it's
17 costing a lot of money, and it's impacting on real
18 critical health runs, or because they're scared.

19 So that's a conversation I would love to be
20 a part of in the future.

21 MR. FREDERICK: You made a couple of good
22 points earlier about how listening to the community
23 and their needs is absolutely critical, and I couldn't
24 agree more. When we're discussing broadband and it's
25 on the community, it goes well beyond health. It goes

1 well beyond education. It goes way beyond economic
2 development, and the facilitation of government
3 services, and all of these things that really make up
4 the intertwined fabric of a community.

5 So I think that the one thing I'd like to
6 leave is that when we talk about improving broadband,
7 improving health, improving technology in the
8 community, it can't just be one sector coming to the
9 table. It has to be all of the sectors. Because all
10 of these things are complicated, and they all interact
11 with each other.

12 And the only way to overcome any of these
13 barriers that we find in the community; whether it's
14 infrastructure, whether it's adoption, whether it's
15 affordability or awareness; is to really bring all
16 sectors to the table and make sure you can understand
17 the needs of each of those sectors. And coupling them
18 with the residents, and businesses, and institutions
19 in the community to come up with a plan for
20 comprehensively addressing how technology can impact a
21 community's well being.

22 MR. HUDSON: I'm going to make a plug for
23 our seniors and talking about something kind of along
24 the lines of what you were talking earlier, Pam.
25 There are so many issues in this city. We often try

1 to boil the ocean.

2 One of the low-hanging fruits to me and one
3 of the reasons I was working on Care Chat prior to
4 Rocket Fiber was; care for our seniors is such an
5 under developed space from a technology perspective,
6 in my opinion. Both my grandmas were in assisted
7 living. Almost no technology existed in that space.
8 And we're looking the baby boomers, or Patrick's
9 generation --

10 (Laughter.)

11 MR. HUDSON: -- getting ready to retire.
12 Sorry.

13 (Laughter.)

14 MR. HUDSON: You know, I saw a statistic a
15 few years ago that said the number of people that are
16 65 and older in this country is going to triple in the
17 next 20 years. People are living longer. They need
18 more care as they live longer. There's technologies
19 that exist in our smartphones that have now been
20 boiled down to watches. So when we talked about
21 wearables earlier, they can make a world of difference
22 for a senior.

23 Something as simple as a fall monitor that a
24 lot of folks, even in the City of Detroit, I'm sure
25 don't have that can alert us to when an individual has

1 a fall or some accident. We can monitor vitals
2 remotely. These are not things that are, you know,
3 space age technology that exist today. Those are
4 things that we can get out in the hands of our seniors
5 so that someone is looking after them.

6 In the case of my grandmas, it took our
7 entire family, and it's continued to take our entire
8 family to take care of them. It's a full-time job and
9 a half, and luckily they have the support structure in
10 place. Not everybody has that, so we as a community
11 need to come together to make sure that seniors are
12 taken of, in a lot of cases where they don't have a
13 broad family, broad support network.

14 MS. LEWIS: Thanks. I think my closing
15 comments are just, it really goes back to, I said it
16 before, where do we start? And I feel like there's an
17 opportunity again to find a structured way to hear
18 from the community in a way that's not overtaxing
19 them, in a way that's not asking the same questions
20 over and over again. And to your point, finding a way
21 to open the file cabinets of all the research and
22 assessments you've done to inform the ideas that the
23 innovators have.

24 I feel like also, especially as it relates
25 to digital literacy and access to broadband, we talked

1 about affordability, and we talked about training, and
2 relevance, and making it relevant for people to use.
3 What we often don't talk about is who's going to fund
4 this stuff. So on the affordability side, you know,
5 the FCC has done a tremendous amount of work to
6 provide funding there. On the training and relevance
7 side, you know, the federal government is not going to
8 go to that level.

9 And so, my challenge is, too, with the
10 subject of digital literacy, how do you make the case,
11 for philanthropy, that this is the next focus that
12 they need to move their dollars towards? They've done
13 it in terms of job creation and the economy. They've
14 done it in terms of, you know, arts and culture,
15 they've done it in terms of community health.

16 But this whole notion around digital
17 literacy, someone needs to start doing the work to
18 make the case that goes to philanthropy to help move
19 some of those dollars to fund some of these efforts,
20 particularly in the area of training and relevance
21 that can be used to make broadband more accessible to
22 under-represented communities.

23 DR. GOSSMAN: I wish I had the answer or the
24 answers.

25 First off, I want to say thank you to the

1 FCC for pulling this together because for one thing,
2 yes, I was ignorant about a number of things. I've
3 learned a lot just in the last two days with these
4 sessions. And I agree with Dr. Butler, okay, with her
5 action item or items.

6 That's a pretty big ocean to try to really
7 tackle. You know, I look at the different groups. We
8 started out yesterday with just digital inclusion
9 focusing primarily on low-income households. Some of
10 the greater advances, though, that are good for a
11 large chunk of the population who can afford them and
12 who will afford fiber to the home, those are also
13 really good. So we have a number of different things,
14 different audiences.

15 What I would like to suggest and ask:
16 people signed in, so we have their email addresses.
17 Could we send out an email to all of you and ask the
18 question: "Who'd like to be part of a planning group
19 to set up our next sessions?" We don't have to rely
20 upon the FCC to do that. In fact, in a lot of the
21 things we've discussed, there are certain things they
22 can do, and actually they've asked us what they should
23 do to help.

24 I'll stick my neck out and say we'd be glad
25 to host it at Wayne State, or we could host it here at

1 TechTown, or we could host it any place that somebody
2 wants to host it. But I think we need to put together
3 a small group at least to say, "Okay, let's have our
4 next session." And I'd be glad to worry about trying
5 to help with that.

6 MR. BEASLEY: All right, thank you. Once
7 again, thank you, Commissioner Clyburn, and thank you,
8 Mr. Riser, and thank you, Wayne State, and thank you
9 all for coming and attending.

10 (Applause.)

11 (Whereupon, at 3:22 p.m., the forum in the
12 above-entitled matter concluded.)

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REPORTER'S CERTIFICATE

DOCKET NO.: N/A
CASE TITLE: Broadband Health Tech Forum
HEARING DATE: October 28, 2015
LOCATION: Detroit, Michigan

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the Federal Communications Commission.

Date: October 28, 2015

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