UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT PUBLIC ADVISORY COMMITTEE MEETING QUARTERLY MEETING

Alexandria, Virginia
Thursday, August 5, 2021

Τ	PARTICIPANTS:
2	Patent Public Advisory Committee (PPAC) Members:
3	JULIE MAR-SPINOLA, Chair
4	STEVEN CALTRIDER, Vice Chair
5	TRACY-GENE G. DURKIN
6	JEFFREY M. SEARS
7	JUDGE SUSAN G. BRADEN (RET.)
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11	BERNARD CASSIDY
12	Union Representatives:
13	KATHLEEN DUDA
14	CATHERINE FAINT
15	VERNON AKO TOWLER
16	United States Patent and Trademark Office (USPTO):
17	SCOTT BOALICK, Chief Judge, Patent and Trial
18	and Appeal Board
19	JACKIE BONILLA, Deputy Chief Judge, Patent Trial and Appeal Board
20	SARAH BROWN, Senior Advisor for Operations
21	MARY CRITHARIS, Chief Policy Officer and
22	Director for International Affairs

1	PARTICIPANTS (CONT'D):
2	KALYAN DESHPANDE, Senior Lead Judge
3	ROBIN EVANS, Deputy Commissioner for Patents
4	TAMARA FOLEY, Attorney Advisor, Office of Governmental Affairs
5	
6	JANET GONGOLA, Vice Chief Judge, Patent Trial and Appeal Board
7	LINDA HORNER, Administrative Patent Judge, and
8	Senior Advisor to the Under Secretary and Director, USPTO
9	MICHAEL KIM, Vice Chief Judge, Patent and
10	Trial Appeal Board
11	FENN MATHEW, Deputy Director, Office of Petitions
12	KRISTEN MATTER, Acting Deputy Director, Office of Pensions
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14	SEAN MILDREW, Deputy Chief Financial Officer
15	RICK SEIDEL, Deputy Commissioner
16	BOB SIMMS, Director of Infrastructure Engineering and Operations
17	COKE STEWART, Performing the Function and Duties
18	of the Deputy Under Secretary of Commerce for Intellectual Property and Deputy Director of
19	the USPTO
20	MATTHEW SUCH, Director, Technology Center 2800
21	ANDREW TOOLE, Chief Economist Jamie Holcombe, Chief Information Officer
22	VALENCIA MARTIN WALLACE, Deputy Commissioner for International Patent Cooperation

1	PARTICIPANTS (CONT'D):
2	DON WATSON, Chief Information Security Officer
3	SCOTT WEIDENFELLER, Vice Chief Judge
4	NELSON YANG, Senior Advisor, International Patent Business Solutions
5	KAREN YOUNG, Director, Technology Center 2900
6	RAREN 100NG, Director, recimology center 2900
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1	PROCEEDINGS
2	(11:00 a.m.)
3	MS. MAR-SPINOLA: Let me welcome
4	everybody. And thank you for attending our
5	quarterly meeting. And I'm Julie Mar-Spinola,
6	Chair of PPAC. I want to keep my intro short, so
7	we have plenty of time to review.
8	And so, let me just start by welcoming
9	everybody and then introducing our Chairs of our
10	Subcommittee. There's Steve Caltrider, our
11	Vice-Chair, and he is the Chair of our PTAB
12	Subcommittee, Jeff Sears is our Chair of our
13	Pendency and Quality, Barney Cassidy is Chair of
14	our Finance Subcommittee Jeremiah Chan, Chair of
15	our AI and IT Subcommittee, Tracy Durkin is our
16	Chair of our Outreach Subcommittee, Judge Susan
17	Braden and Dan Brown are our Co-Chairs of
18	Legislative Subcommittee, Jennifer Camacho, the
19	Chair of our Innovation Expansion Subcommittee.
20	With that, let me turn it over to
21	Director Drew Hirshfeld, performing the functions
22	and the duties of the Director of the USPTO. Good

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1 morning, Drew.
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- 2 MR. HIRSHFELD: Thank you very much,
- 3 Julie. I hope everybody is doing well. Just
- 4 wanted to thank Julie and all the PPAC members.
- 5 I'd like to thank all of the USPTO staff who've
- 6 put this event together, and I know we have a
- 7 number of people -- I'm watching numbers on the
- 8 screen, we can see people are joining in, so thank
- 9 you to members of the public for joining in.
- 10 We have a great agenda for you all
- 11 today. One of the struggles we always have, quite
- 12 frankly, with the PPAC meetings is how to fit in
- everything that we have. So, on the agenda,
- 14 you'll see topics ranging from PTAB, including a
- 15 post- Arthrex Director review process. The
- 16 Patents Organization will talk about drawing
- 17 quality and petitions information. We have budget
- and finance, AI, international legislator affairs,
- innovation expansion, and sustainability. So,
- great topics for all of you.
- 21 What I would like to do in my remarks,
- 22 and I'll keep them brief today, but what I'd like

- 1 to do in my remarks is give you some highlights
- that I feel are particularly noteworthy, and I'll
- 3 touch on some of what's going to be discussed in
- 4 more detail later on and some new topics.
- 5 Let me start with a visit we had early
- 6 last month from our Deputy Secretary Don Graves.
- 7 It was a wonderful visit. By the way, the
- 8 Secretary, Gina Raimondo, visited PTO after she
- 9 started and Don Graves visited us, after he took
- on the role. And they both showed a great deal of
- interest. I wanted to talk about the Don Graves
- 12 visit because it was a great visit. And I talked
- to him in advance of that, and said how detailed
- do you want us to get? And he said, let me see --
- 15 get the full package.
- So, we actually not only gave him a tour
- 17 of the wonderful National Inventors Hall of Fame
- Museum, which if any of you haven't seen, you have
- 19 to be able to see it, once we re-open of course.
- 20 And then we gave him a tour of PTO and a whirlwind
- 21 with the business senior heads.
- 22 But we also gave him a short day in the

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1 life of a patent examiner and a trademark
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- 2 examining attorney. So, he actually got to see
- 3 the tools that examiners use and be able to ask
- 4 questions. I thought that was wonderful.
- 5 And then I will say one of the
- 6 highlights for me, personally, was we presented
- 7 him with a framed copy of one of his ancestor's
- 8 patents. So, his, I think I'm going to get this
- 9 right, but it was a great, great, great, great
- 10 grandfather in -- and I have the year written down
- 11 here -- in 1881 received a patent, and so he has
- 12 ties to the patent system. And it was a really
- 13 special moment, quite frankly, to be able to be a
- part of that with him. By the way, his ancestor
- was one of the first black people to receive a
- 16 patent, so it was a very moving and touching
- 17 experience for all of us.
- 18 I always wanted to look forward a little
- 19 bit and let you all know that later this month, we
- 20 have our annual Invention Conference,
- 21 Invention-Con, as well call it. It's the 25th
- year of this conference, and it focuses, of

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1 course, on independent inventors, IP protection,
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- 2 and the importance of American ingenuity.
- 3 This year's theme is capitalizing on
- 4 your intellectual property and, to date, very
- 5 pleased to say we have more than 1,500 registrants
- for this. So quite a great turnout so far. And
- 7 I'm looking forward to those numbers continuing to
- 8 go up. So, I say that now, because if there's
- 9 people here who would like to join, and I hope
- 10 there are, please know that you can still sign up
- 11 for the Invention-Con conference. We will have
- 12 remarks from Secretary Gina Raimondo, as well as
- many panels.
- 14 And I'd like to highlight one of them
- 15 because they -- one of our panel members will be,
- I want to make sure I get her name Gitanjali Rao.
- 17 And you may know that name, but she is a
- 18 15-year-old author, inventor, scientist, and is
- 19 Time Magazine's 2020 Kid of the Year. So, she was
- 20 inspired by the water crisis in Flint, Michigan,
- 21 and she developed an innovative way to make sure
- 22 that our drinking water is clean. So, very

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1 excited for that panel as well as many others.
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- Okay, let me go back to some other
- 3 ongoings at USPTO. Since our last PPAC meeting, a
- 4 lot has happened on the Arthrex front. So, of
- 5 course, we had the decision from the Supreme
- 6 Court. I know others will get into more details
- 7 later, so I'm going to skip some of the details.
- But just to say, we do have a new
- 9 post-Arthrex interim Director process that is on
- 10 your way. You can get information about that
- 11 right from our website. We've put up a great
- 12 question and answer document which you can look
- 13 at. It gives you information about the process
- 14 and should -- gives you a way to provide comments
- 15 to us, should you have comments. So, I hope that
- 16 you will certainly take a look at that if you
- haven't been able to. And please give us
- 18 comments. This is an interim process, so I see it
- 19 being iterative.
- 20 By the way, we were able to take -- use
- 21 the President Opinion Process, the POP Panel
- 22 process, that we had in place already and use a

- lot of that to help us move to this process. So,
- 2 again, please take a look at our website and give
- 3 us some feedback. By the way, two decisions went
- 4 out this week. Those were the first two
- 5 decisions, both denials, that went out very
- 6 recently. So, you'll hear more from that.
- 7 One question I did want to address
- 8 myself though, because I'm getting asked it a
- 9 great deal is how is one person going to do all of
- 10 this. And I assure you that I do have an advisory
- 11 group that is working on this. And that, by the
- way, is addressed in our questions and answers
- document that we have. But I have an advisory
- 14 group that helps on this. That advisory group is
- 15 made of judges from Keytowd (phonetic), it is made
- of members from patents, members from our general
- 17 law office, and so we -- I tried to have a very
- 18 representative group throughout the Agency to be
- 19 able to give me input and information, and then,
- 20 ultimately, the decision will be made by me in all
- of these cases. So, I do have a great deal of
- 22 assistance, and I want to say thank you to the

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1 teams that have been working on all of that.
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- 2 I also wanted to mention another topic
- 3 related TCAB that has been a topic in the past.
- 4 In PPAC, we've had great discussions in prior
- 5 meetings about situations where patented claims
- 6 are held to be invalid and what are we doing at
- 7 USPTO as a teaching point and a learning point
- 8 from that. I wanted to assure you all that that
- 9 is a very high priority of mine to continue our
- 10 efforts, moving forward, to get a better
- 11 understanding of anytime there's a claim that's
- 12 held to be invalid. I want to understand and we
- 13 all want to understand at PTO the reasons why.
- So, we are working on a process to be
- 15 able to capture that data such as -- is it related
- 16 to prior art, was the art in the case, was it not
- in the case. If it was not in the case, should it
- 18 have been something an examiner should have found,
- some reference that wouldn't reasonably be in a
- 20 place where an examiner could find. These are all
- 21 questions that I think we need to get a better
- 22 handle on, so we will continue that focus. And

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1 I'm looking forward to future PPACs where we'll be
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- 2 able to give you more information as we continue
- 3 with our study.
- 4 Maybe I can transition to the patents
- 5 organization and just mention filings a little
- 6 bit. I think Andy Faile might get into more
- 7 detail on filings or some of the patents folks
- 8 might get into more detail. But I get asked a
- 9 great deal about the filings relative to the
- 10 pandemic. We are tracking and got a negative --
- we are proposing, actually, or predicting for the
- 12 year that there will be a slight decrease in
- 13 filings in this year as compared to last year.
- 14 We're predicting about point, or, I'm sorry, about
- 15 2 percent decline. That decline is less of a
- 16 projection than we were originally projecting at
- the beginning of the year. Our original
- 18 projection was about a 3.7 percent decline. So,
- 19 we've seen filings come in at a higher rate than
- 20 expected. So, we've reduced our projection
- 21 numbers.
- I think that is actually very good news.

- 1 It shows that there hasn't been too much of an
- 2 impact, decrease in filings. These numbers aren't
- 3 too far off what they typically are in a year.
- 4 Nobody knows what's going to happen the remaining
- 5 months, so I get it that these are all
- 6 projections. But, again, I think this is a very
- 7 healthy place to be in our revenues. And I know
- 8 you'll hear more from Jay Hoffman later, our CFO,
- 9 of course, that our revenues continue to be
- 10 strong. So, I feel that the agency is in a very
- 11 good place.
- 12 I did want to mention some about patent
- 13 pendency. You have all heard me talk many times,
- both as Commissioner and being in this role, about
- our transition in looking at patent term
- adjustment timeframes or pendency, rather than
- 17 your average First Action and Total Pendency,
- 18 which is what we've been doing for many, many
- 19 years looking at that. So, this does represent a
- 20 significant change. Looking at the patent term
- 21 adjustment timeframes, which are set by statute,
- 22 makes more sense to me. I think we've actually

- 1 received comments from many of you that it makes
- 2 more sense. But just a background, it's a way for
- 3 us to say, how many applications in all these
- 4 actions can we ensure are below these patent term
- 5 adjustment timeframes.
- By doing that, we'll get consistency
- 7 throughout the core. When people, for example,
- 8 look for status inquiries, they'll be able to have
- 9 more consistency. Averages are somewhat
- 10 problematic with a very large organization such as
- ours, because if you are not in an area close to
- 12 the averages, your numbers could be way off. And
- 13 that is a problem. So, we're really trying to
- focus on the patent term adjustment timeframes,
- and you'll see that.
- One interesting issue, in focusing on
- the patent term adjustment timeframes, is it has
- 18 helped us move out a lot of older cases, which is
- 19 a good thing, of course. We want to move the
- older cases, so that they're not there anymore,
- 21 right. So, we're working the cases as they come
- in. The downside to that, quite frankly, is

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1 you'll see that our First Action pendency numbers
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- will increase a little bit, and we've seen that
- 3 trend a little bit.
- 4 And so our First Action, again, which
- 5 we're trying to get away from these, but for
- 6 completeness, I'm just adding it to the
- 7 discussion, are about 16.9, which is higher than
- 8 it's been recently. But I think that this is an
- 9 interim uptick, because of our change to a new
- 10 process of looking at the patent term adjustment
- 11 timeframes. Our Total Pendency is still declining
- and is at a very, very healthy 22.6. So, [Audio
- drops) years our goal, and to be beneath 24
- months, and we're currently at 22.6 months. And
- 15 personal opinion, the Total Pendency matters a lot
- 16 more than the First Action Pendency. I know
- 17 people may have different opinions about that, but
- that's my view, and I think, of course patent term
- 19 adjustment is the right way to go. So, I just
- 20 raise those, so you are alerted if you see some
- 21 changes in our numbers, that is the effect.
- 22 By the way, in looking at First Action

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and Total Pendency, the difference between 16.9
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- 2 and 22.6 for Total Pendency is a very small
- 3 difference. To me, that is a really good
- 4 indication. It's something I haven't actually
- 5 really focused on in the past, but the fact that
- 6 our First Action Pendency and our Total Pendency
- 7 are getting closer in time is quite a great
- 8 statement about what our examiners are doing.
- 9 In other words, having interviews to
- 10 move cases along, issuing high quality First
- 11 Actions to make sure that there's compact
- 12 prosecution. All of these factors play into not
- having a significant delta between First Action
- 14 and Total Pendency. I know I got a little weedy
- 15 (phonetic) in my discussion there, but I do think
- it's important for all of you to hear that.
- 17 A couple additional notes about Patents
- Organization. You've also heard me mention that
- 19 this year is a really interesting year for Patents
- 20 Organization. They are going through very
- 21 significant changes, perhaps the largest changes
- 22 ever in Patents Organization. Starting this past

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October, there were changes relative to the --
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- 2 first, there was a reorganization of senior
- 3 leadership. Second, there was the changes to the
- 4 examination time, the way we rout cases, and a
- 5 performance appraisal plan for every single
- 6 examiner. These are very significant changes.
- 7 They all occurred for a variety of reasons at a
- 8 similar time. So the Patents Organization is
- 9 doing a great job, in my opinion, adjusting to all
- 10 of these.
- 11 I did want to mention routing here and
- time a little bit. The routing is one of those
- 13 topics that I can't state enough of how large of a
- 14 change this is. This change entirely gets us away
- from the USPC and moves us to a CPC, which is
- something we've been in the middle of for years.
- 17 It also now creates, instead of a single data
- 18 point of matching a case to an examiner like we've
- done historically, it now creates a profile of
- 20 classification for every case that comes in. We
- 21 have a profile of every examiner based on the
- 22 actual cases they've worked on, so it's a

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technological profile. We're able to match those
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- 2 profiles to get the best match and technological
- 3 match and be able to give out cases, which help us
- 4 really focus on our pendency goals as well as
- 5 getting the best case to the examiner. So this
- 6 really puts us on a footing to make immense
- 7 improvements moving forward.
- 8 And I'm very happy with what we've done
- 9 so far. I don't want to seem remiss to those
- 10 examiners who are listening in. I'm well aware,
- 11 with 8,000-plus examiners, this has worked better
- in places than other places. But, overall, I'm
- 13 very happy about the start we've had, and I feel
- 14 like we're in the right place.
- 15 By the way, with examination time, all
- 16 the examiners' time that they have for production
- is tied to these classifications, in some way,
- 18 shape or form, as well as also now being based on
- 19 specific attributes of cases, which we've never
- 20 done in the past. So, significant changes, and I
- think we're moving forward.
- 22 A last word about classification is

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1 artificial intelligence, which I know it will be
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- 2 discussed later on in the program, continues to be
- 3 a priority of ours in a number of ways. We are
- 4 actively using artificial intelligence for some of
- 5 our classification. We're seeing improvement to
- 6 the classification, and we're seeing also
- 7 financial savings as well. So, I think that that
- 8 is a very, very positive step for all of us.
- 9 Okay, a couple other topics, and then
- 10 I'm going to wrap it up here. I did want to
- 11 mention the President's Executive Order on
- 12 Economic Relief, related to the pandemic. That
- issued of course late January, January 22nd, by
- 14 the President. It's an executive order that asked
- 15 the agencies to identify actions they can take
- within existing authorities to address the current
- 17 economic crisis, resulting from the pandemic. We
- 18 have the PTO working group, led by -- or
- 19 performing functions, the PD, Coke Stewart, who's
- just been absolutely wonderful in all respects. I
- 21 know she's listening in here. While I can't get
- 22 into all the details, she's going to talk with you

- 1 all later about some of the efforts she's doing on
- 2 sustainability.
- I did want to mention some changes to
- 4 our website that we have. We've updated our
- 5 inventors' and entrepreneurs' resource page and
- 6 placed it where it's more prominent. And we've
- 7 updated our patents basic page, which also we can
- 8 more easily get to. Our goal here was to more
- 9 clearly explain the application life cycle and
- 10 provide practical assistance along for each step.
- 11 And these are great changes, great improvement.
- 12 I'm highlighting it here because I hope that you
- will take a look at the updated website and to be
- able to give us feedback on that. And thank you
- 15 to Coke and the team for keeping those initiatives
- 16 going forward and others.
- 17 My last topic, and I do have some
- 18 breaking news. So yesterday, the Department of
- 19 Commerce, on behalf of the USPTO, filed for
- 20 federal registration of the USPTO trademarks.
- 21 Which you're probably asking yourself, why are we
- 22 talking trademarks in a PPAC meeting. But we

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1 filed those registrations yesterday, and this is
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- 2 something that we've been thinking about for some
- 3 time now at PTO and feel like this is a very good
- 4 step.
- And here's the reason why. What we've
- 6 seen more on the trademarks side is we've seen
- 7 people using our trademarks to -- and the USPTO
- 8 logo and name, et cetera -- to commit fraud on an
- 9 applicant. So, we've taken a step to avail
- 10 ourselves of federal registration to be able to
- 11 protect all of the applicants. And, right now,
- this is not something we're seeing this type of
- fraud on the patent side, but we are certainly
- 14 seeing it on the trademark side, that, obviously,
- 15 with the registration, it gives us the ability to
- better protect everybody across the board. So,
- 17 this is a really important step for us. I think
- it will help us with protection for everybody.
- 19 So, I'm very confident this is a step in the right
- 20 direction and the many fraud prevention steps that
- 21 we're taking throughout the agency.
- 22 By the way, earlier, just about an hour

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ago or slightly under that, we had a blog come out
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- 2 from Commissioner Dave Gooder explaining this in
- 3 more detail. So, please take a look at that blog.
- I know that was a lot. I felt like I
- 5 talked -- just to get in all in, Julie. [Audio
- 6 drops) the meeting.
- 7 MS. MAR-SPINOLA: Thank you very much,
- 8 Drew. I want to open it up for a few minutes for
- 9 questions to the Director, and if we can either do
- 10 that through Chat or email to the PPAC email
- 11 address, then that would be -- we'll be able to
- 12 take those up. Drew, will you be staying for the
- 13 entire meeting today? Are you able to do that?
- MR. HIRSHFELD: I won't be able to stay
- for the whole meeting, but I will be here for
- probably another 40 minutes or so, 30-40 minutes.
- MS. MAR-SPINOLA: Okay. And may I
- 18 suggest that folks can ask you questions while
- 19 you're here?
- MR. HIRSHFELD: Absolutely.
- MS. MAR-SPINOLA: As they come up, okay.
- 22 And I know that you are often very proactive

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during the discussion and in the event. So, thank
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- 2 you. Well, that gives us some more time to start
- 3 with our PTAB Subcommittee, and let me turn this
- 4 over to Steve Caltrider. Thank you, Drew.
- 5 MR. CALTRIDER: Thank you, Julie. We
- 6 have a full agenda today, so I'm going to keep my
- 7 introductory remarks short as well. I would like
- 8 to open with a thank you to Acting Director
- 9 Hirshfeld and Chief Judge Boalick and their teams
- 10 for implementing a solution to Arthrex so quickly
- and for providing extensive resources as well,
- 12 hosting a Boardside Chat to the forum
- 13 practitioners about procedures for direct review,
- 14 are also leading us to -- Chief Boalick's here to
- explain those in more detail and to discuss how
- 16 that process is being utilized to date. I would
- 17 also like to recognize the PPAC for their ongoing
- 18 commitment to continuous improvement.
- 19 Acting Director Hirshfeld touched on
- this in his remarks that through a PPAC's
- 21 perspective, it's extraordinarily important to be
- 22 committed to continuous improvement and the

- 1 efforts by the PTAB, as well as by Patents, to
- 2 improve work product as it starts in the Office in
- 3 the filing stage and leaves the Office with the
- final written decision, the PTAB has been really
- 5 remarkable and much appreciated. So with that,
- 6 I'll turn it over to Scott.
- JUDGE BOALICK: All right, well, thank
- 8 you, Steve. And I guess thank you -- we have a
- 9 number of topics to speak of today with the first
- 10 being Arthrex. And so, I guess if -- I don't know
- if we have the slides up right now, but if we
- 12 could go ahead and put those up. And then advance
- 13 to the next slide.
- This is our overall agenda. So, you can
- 15 see, we'll start out with a talk about Arthrex and
- 16 the Director review process. We'll talk about
- 17 some 325(d) case studies that we've done. Talk a
- 18 little bit about training that we do in
- 19 collaboration with Patents. And some inventor
- 20 outreach efforts that we have, and, as you talked
- 21 about Steve, as did Drew, a little bit about our
- 22 continuing efforts in process improvement and that

- 1 collaboration and data-sharing.
- 2 So, without any further delay, we'll
- 3 move on to the Arthrex topic. And I'll turn
- 4 things over to Senior Lead Judge Kal Deshpande and
- 5 Judge Linda Horner, who is also currently serving
- on detail as a senior advisor to the Office of the
- 7 Under Secretary. So, let me turn it over to them
- 8 and we'll get started.
- 9 JUDGE HORNER: Great, thank you, Scott.
- 10 So, I'll start with Arthrex. As most of us are
- aware, on June 21st, the Supreme Court issued the
- decision in Arthrex, and the court addressed the
- 13 Constitution's appointments clause, as it relates
- to administrative patent judges, and considered
- 15 whether the APJ's are principal officers who must
- 16 be appointed by the President with the Senate to
- 17 advice and consent. And the USPTO and the U.S.
- government argued whether they are inferior
- officers who could be appointed by the Secretary
- of Commerce.
- 21 The court held that the unreviewable
- 22 authority wielded by the APJ's during the

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1 inter-parties review is incompatible with their
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- 2 appointment by the Secretary to the Interior
- 3 Office and that the court devised a remedy that
- 4 provides that the Director may review final PTAB
- 5 decisions and, upon review, may issue decisions
- 6 himself on behalf of the Board.
- We put on this slide links to various
- 8 source materials that are available on the PTAB's
- 9 webpage, including information regarding
- 10 implementation of an Interim Director review
- 11 process in light or Arthrex, a link to Arthrex
- 12 frequently asked questions related to the interim
- process, and also a link to our slide presentation
- 14 that we presented on July 1st in a Boardside Chat
- to the interim process and how it works.
- So, as I mentioned, the office
- implemented this interim procedure. It may be
- initiated or sponsored by the director, for
- director review, or it may be requested by a party
- 20 to a PTAB proceeding. I'm going to turn it over
- 21 to Senor Lead Judge, Kal Deshpande to discuss in a
- 22 little bit more detail the director review

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1 process.
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2 JUDGE DESHPANDE: Thanks, Linda. The 3 director review process, we've kept it very simple. There's only two things that you need to 4 5 do concurrently in order to appoint (phonetic) Director review. The first one is just filing a 7 rehearing request and the second is submitting an 8 email to an email address, I'll give it to you --9 it's director ptab decision review@USPTO.gov to 10 request a Director review. Filing those two things concurrently will establish you for your 11 12 request for a Director review. It's pretty 13 simple, it's pretty straightforward. It's just a 14 rehearing request with an email to our Director 15 review email box. 16 There are a couple litigations or 17 constraints associated with the process. I'll go over this just a little bit, but you can only ask 18 19 for a Director review or you can ask for a panel 20 rehearing request. You cannot do both. If someone asks for both, we streamline those 21

requests for Director review. And you must file

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1 your rehearing within 30 days. That's consistent
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- with our rehearing process. In order to complete
- 3 your Director review request, you need to be able
- 4 to file a rehearing. In order to do that
- 5 successfully, you must file within 30 days of the
- 6 answer to the final written decision.
- 7 Of course, you have be a party to the
- 8 proceeding. You won't be able to file the
- 9 rehearing request if you're not a party to the
- 10 proceeding. It all kind of comes back together.
- 11 You have to be a party to the proceeding in order
- 12 to ask for a Director review request. In other
- words, third parties can't ask for a Director
- review of a proceeding that they're not a party
- 15 to.
- 16 As Linda mentioned, this process is
- 17 envisioned as an interim process. We have a
- 18 suggestions mailbox, it's Director Review
- 19 Suggestions @USPTO.gov. If anybody has any
- thoughts on how the process is going or for
- 21 improvements, this is an interim process, we plan
- on revising and correcting and making it better as

- 1 time goes on. So, that's just a -- a thought out
- 2 there is that if anyone has any suggestions, we
- 3 are welcoming those. I will turn it back over to
- 4 Linda to talk about some of the requests we've
- 5 just received.
- 6 JUDGE HORNER: Great, thank you, Kal.
- 7 So, I'll just add to what Kal's emphasized, that,
- 8 as of now, the current interim process is
- 9 available for inter-parties review and PGR or Post
- 10 Grant Review proceedings for parties to file a
- 11 request. And that to spunky (phonetic) review is
- 12 always a possibility for any PPAC final decision.
- But the request can be filed only in the
- inter-parties reviews or PGRs.
- So, since the announcement of this
- interim recess, we've received 14 timely requests
- for Director review. That's requests from 14
- 18 individual final written decisions and petitions.
- 19 Those requests were a batch of related IPRs. But,
- 20 in total, 14 requests. For these tardy filed
- 21 requests, we're adding the e-mail that we received
- 22 in the Director Review mailbox to the official

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1 record in PTAB end to end. And we're using a
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- 2 special designated exhibit number, Exhibit number
- 3 3100. We're hoping this will facilitate the
- 4 public being able to easily locate these requests
- 5 by filtering through our bulk data for exhibits
- 6 bearing this number. We welcome any feedback if
- 7 that's not working as we anticipate, hoping that
- 8 will make it easier for being able to find cases
- 9 where these kind of requests have been filed.
- 10 As Director Hirshfeld mentioned, he
- issued two decisions on the first two requests
- this past Monday, and the other remaining requests
- are still under consideration and currently
- 14 pending. We anticipate receiving additional
- 15 requests as the Federal Circuit has started
- issuing limited remands on some pending appeals to
- 17 the office. And those limited remands are
- 18 providing a (inaudible) 30-day window in which to
- 19 request.
- I'll just note we've also received some
- 21 requests are untimely, meaning that either the
- 22 case is still pending at the federal circuit and

- 1 hasn't been officially remanded to us yet. And
- 2 so, those requests might be filed a bit soon, but
- 3 those parties will have an opportunity to file
- 4 their request upon remand. So, they're just not
- 5 in our jurisdiction yet. And we do have a few
- 6 requests filed where the party's case has
- 7 terminated or come to a final conclusion years
- 8 ago, and then those requests were filed too late.
- 9 So, we will notify parties if a request is
- 10 untimely.
- 11 And I think we're ready to move on to
- 12 the next slide set, and I'll turn back to over to
- 13 Senior Lead Judge Deshpande to start the
- 14 discussion on 325(d).
- 15 JUDGE DESHPANDE: Before we get too far
- into 325(d), I just want to give a little
- 17 refresher on what 325(d) is. And this is one of
- our statutes that lets us guide into proceedings
- 19 that have already happened at the office and, if
- they've already been happening at the office,
- 21 whether we give a deference to the office's
- 22 previous findings.

This statute, an important part reads

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       whether -- it asks whether the same, substantially
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       the same prior order arguments were previously
      presented to the office. PTAB issued a
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       Presidential decision in Advanced Bionics that set
       forward a framework as to how we'll be reviewing
       cases under this light.
 7
                 The Advanced Bionics framework is a
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       two-part test. The first part is whether the
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       same, or substantially the same, arguments were
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      previously presented to the office. And the
      second is whether the petitioner has demonstrated
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13
      that the office erred in a manner material to the
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      patentability of the challenge claim. And a
       little bit more to unpack into that, when you
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16
      think about what does it mean on something that
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I also want to review what we mean by
previously presented art. That could include art

any other AIA post grant proceeding.

was previously presented to the Office. This can

be any proceeding that happens in the Office. It

can be examination, re-examination, re-issue or

- 1 cited by an examiner or it can include art that
- 2 was provided by the applicant, maybe on an IVS.
- 3 I'm going to turn it back over to Linda to talk
- 4 about some of the goals and any implications they
- 5 might have with any other Supreme Court cases.
- JUDGE HORNER: Thanks, Kal. So one
- 7 thing to note is the impact of the SAS decision on
- 8 325(d). So when the Supreme Court issued its
- 9 decision in SAS, it required that the office
- 10 institute on all challenges or no challenges.
- 11 Previously, we had instituted on partial
- 12 challenges. So, we provided in a question/answer
- on our webpage guidance on how the decision is SAS
- would affect our 325(d) analysis. And what our
- 15 quidance was, was that the panel will evaluate the
- 16 challenges and the petition as a whole and
- determine whether a 325(d) is sufficiently
- implicated such that its statutory purpose would
- 19 be undermined by instituting all the challenges.
- So, it's a case by case inquiry and, as you'll
- see, as we go through the case studies, each of
- these cases we looked at are very fact intensive

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1 and case by case. And so, this issue of the
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- 2 implications for SAS likewise is evaluated based
- 3 on the entire petition and what's presented.
- 4 The goals of the case study were to
- 5 provide insight as to how panels are applying
- 6 Advanced Bionics framework and show how that
- 7 framework requires, as I mentioned, a case
- 8 specific and fact-intensive inquiry. And then
- 9 look for any questions about whether we should
- 10 have changes to the ecaps card (phonetic) approach
- 11 or 325(d).
- 12 So, I'll start off with the first case,
- and we're just going to give a high level summary
- of each case, but we recommend these cases to
- everyone's reading from cover to cover because
- 16 you'll see, as you look at these, these are good
- 17 representative cases, but they're very
- 18 fact-intensive analysis in each.
- 19 So, in Balt vs. MicroVention, the Board
- 20 found that a reference that was relied on in the
- 21 petition was previously presented to the Office.
- 22 So, under the first part of the Advanced Bionics

- 1 framework, the reference was previously before the
- 2 Office and so the panel then went on to look
- 3 whether there was a material error in anything
- 4 that was done during examination.
- 5 During examination, the examiner had
- 6 rejected the claims over the reference, and there
- 7 had been considerable back and forth between the
- 8 applicant and the examiner about the teachings in
- 9 the reference. The panel found that the
- 10 petitioner had not provided sufficient evidence of
- 11 material error in the examiner's -- or the
- 12 Office's prior consideration of the reference.
- And the panel denied this petition on 325(d). So,
- this is an example where material error was not
- 15 shown.
- And I'll turn it back to Judge Deshpande
- 17 for the Roku case.
- JUDGE DESHPANDE: The Roku case is a
- 19 great counterpoint to the Balt case. In the Roku
- 20 case, the Board of Similes (phonetic) literally
- 21 found that a reference was previously presented to
- 22 the office. In this case, there was a reference

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1 that was listed on an IVS during examination. And
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- 2 so the Board found that this reference, because it
- 3 was listed on an IVS was previously presented to
- 4 the office. That's the first part of the Advanced
- 5 Bionics framework has been met.
- 6 So, proceeding on to the second part of
- 7 the Advanced Bionics framework is whether the
- 8 office erred in a manner material to the
- 9 patentability of the claims. As we promised,
- 10 these would be fact-intensive and case specific
- inquiries, the Board did look to see what the
- 12 examiner noted as the reasons for allowance -- and
- in the reference that was cited on the IVS, it was
- found that the examiner overlooked some of the
- teachings in that reference as it was applied to
- 16 the patent challenge claim. So, the Board did
- 17 find that there was an error towards the
- 18 patentability of the challenge claim here.
- 19 You can see how it goes fact-intensive,
- 20 as Board will look as far as to see exactly what
- 21 happened here in examination in order to correctly
- 22 determine whether there was an error by the

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1 Office.
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- I think we'll move to the next case with
- 3 Linda.
- JUDGE HORNER: In NXP versus Impinj, the
- 5 Board found that the references relied on in the
- 6 petition were not substantially the same art as
- 7 previously presented to the office. The main
- 8 reference discussed in this case was a thesis.
- 9 The thesis was cited in the petition, and that
- 10 thesis was by the same author as some of the art
- of record issued patents. But the thesis
- disclosed substantially more than the cited art of
- 13 record. So, the thesis was more comprehensive and
- 14 had a fuller disclosure than the art that had been
- considered by the examiner during examination.
- The patent owner in their (inaudible)
- 17 pro-ray (phonetic) response, raised the 325 issue,
- 18 but failed to address the differences between the
- 19 disclosures in the thesis, that was the basis for
- 20 the ground (phonetic) of the petition versus the
- 21 art of record in the arguments made in the patent
- owner preliminary response, and so the Board

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1 instituted finding that the reference relied on
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- 2 under the petition was not substantially the same,
- 3 because it included critical disclosure that
- 4 wasn't before the Office previously.
- 5 And Judge Deshpande will talk about the
- 6 last case.
- 7 JUDGE DESHPANDE: The GSK was a great
- 8 case to show our commitment to previous Office
- 9 determinations. In the GFK case, there was a
- 10 petition that was filed that included the same art
- 11 that was submitted in a previously submitted IPR
- for a related patent. I know that' a mouthful
- 13 (phonetic), but we promised this would be case
- 14 specific and fact-intensive.
- 15 But in a related patent, there was an
- 16 IPR filed, and that prior art was submitted in a
- 17 later petition for a related case. In between
- 18 those two, the examiner had allowed the case
- 19 challenge in the GFK. The examiner had actually
- 20 looked at the prior art that was submitted in the
- 21 earlier IPR, and it found that the claims in the
- later patent were distinct from what the prior art

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1 that was submitted. So, the examiner made a
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- 2 specific finding that the claims overcome the
- 3 prior art that was presented in the previous IPR.
- So, when the examiner's made an express
- 5 finding and the petitioner was unable to provide
- 6 any further information as to any error was
- 7 determined by the Office. So, when the examiner's
- 8 made an express finding absent to showing of
- 9 material error, in this case, the institution was
- denied and 325(d) was officially implicated where
- 11 both prongs in Advanced Bionics test were met.
- 12 So, this is a great case to show that
- 325(d) framework goes back to an Office
- 14 (inaudible) for a previous determination. I think
- 15 concludes our case studies.
- 16 JUDGE BOALICK: All right. I think at
- 17 this point, we'll move on to our next item, which
- is talking about the training that we're doing
- 19 with patents. And, Janet, I believe you're up for
- 20 this as well as the next item.
- JUDGE GONGOLA: Yes, good morning,
- 22 everyone. I want to talk with you about the

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educational efforts that the PTAB is embarking on,
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- 2 both with the patent organization as well as our
- 3 stakeholders. So, beginning with the Patent
- 4 Organization, we collaborate extensively
- 5 throughout the year in a variety of ways to bring
- 6 training from the Board to Patent and vice versa.
- 7 On this slide, you can see some of the examples of
- 8 that training. And I thought I'll talk just about
- 9 a couple of them as examples.
- 10 So, under the first bullet, the first
- 11 category is Patent Quality Chats. So, throughout
- the year, four times, we host webinars held by
- judges to talk with examiners about different
- 14 aspects of PTAB proceedings. We plan out the
- 15 content of the webinars with the Office of Patent
- 16 Training, based upon input from examiners, what
- they would like to learn about from the Board.
- 18 So, you can see our April session
- 19 focused on how examiners can strengthen their
- answers when a case comes on appeal to the Board.
- 21 And then in July, we talked about how the Board
- 22 handles cases where the Federal Circuit reversed

- 1 the Board decision. The Patent Quality Chat
- webinars are really, really popular segments. We
- do them twice and, on average, we have over 1,000
- 4 examiners in attendance. We've been doing them
- 5 for the last two years and plan to continue for
- 6 the foreseeable future.
- The next example has to do with detail
- 8 assignments. Detail is a term we use in the
- 9 government to refer to a temporary work assignment
- in a different business area from your regular
- 11 work. So each year, we have 20 examiners come
- over to the Board to work with our judges in
- drafting and getting ready for ex-parte appeal.
- So, in that process, there's a
- 15 collaboration between the judges and the examiners
- about the cases. The examiners have an
- 17 opportunity to learn about the decision-making
- 18 process, about what constitutes a strong argument,
- 19 what constitutes a weak argument, how to
- 20 effectively make points in written briefing. And
- 21 the intent is so that examiners take this
- information that they learn from the judges and go

- 1 back, share it with their colleagues in the
- 2 examining core, and they, in turn, can incorporate
- 3 these skills into writing better examiners'
- 4 answers and better Office actions and prosecution,
- 5 in general.
- At the same time, judges are learning
- 7 from examiners about nuances of the patent
- 8 prosecution. Some of the judges have been
- 9 examiners; others have not. We could all stand to
- 10 have a refresher every now and then. So, this is
- 11 a way that we can glean the latest and greatest
- developments that are occurring in the examination
- 13 process from our examiners.
- 14 And then, on the flip side, Patents has
- been very gracious in offering to the Board,
- opportunities to take advantage of technical
- training that they provide to examiners in certain
- 18 specific art areas. We also have access to all of
- 19 the training on the legal side that is given to
- 20 patent examiners. This is important for judges to
- 21 know how examiners are being trained, so that when
- we are reviewing their work product in appeal, we

- 1 have a better sense of what the framework is, how
- 2 they're laying out their Office action, so we can
- 3 more efficiently find the arguments that bear upon
- 4 the particular issue that's on appeal. So, we are
- 5 really thrilled to be able to do this training,
- 6 cross-collaboration with Patents, and we continue
- 7 to look for ways to expand that
- 8 cross-collaboration.
- 9 Next slide, please. Moving from
- 10 internal training to our outreach effort, the
- 11 Board is particularly targeting ways in which we
- 12 can reach the inventor community. This has been a
- group, in the past, that we've not had a
- 14 significant number of interactions with, and we're
- 15 very eager to change that. So, we've come up with
- 16 a variety of different ways that we can make
- inroads into the inventor community.
- 18 First of all, as shown on this
- 19 particular slide, we have created a new website,
- and it's called New to PTAB. And when you go to
- 21 the PTAB landing page, in the first column on the
- left side of the screen, you'll see, in the red

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1 circle with the arrow, there is a link to our New
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- 2 to PTAB webpage. This page features information
- 3 about appeals, trials, and oral hearings. It's
- 4 distilled down to its very basics. Written in
- 5 plain English, so it's very easy to understand
- 6 what is required in these different proceeding
- 7 types. So, that's like a first stop that
- 8 inventors can go to, to learn about the Board and
- 9 how our proceedings transpire.
- 10 A second new activity that we're doing
- is publishing articles on a monthly basis in
- 12 Inventors Digest. Inventors Digest is a
- third-party publication, and they have offered us
- space in each one of their issues to talk about
- what the Board does. We've not had this
- opportunity before, so we're super- excited to
- 17 have the platform to start kind of making that
- inroad, explaining the very basics, and then
- 19 building upon it over time to get more and more
- sophisticated in the information we're able to
- 21 bring to the inventor community.
- 22 Our third effort concerns Invention-Con,

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which was mentioned in Director Hirshfeld's
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- 2 remarks. We are appearing at Invention-Con on
- 3 Thursday, August 19th, for a workshop session.
- 4 And we plan to use this workshop session to tell
- 5 inventors four things about the Board.
- First, we want you to meet some of the
- 7 judges to find out what are our backgrounds,
- 8 experiences -- who are these people deciding your
- 9 cases. Second, we want to show you where PTAB
- 10 fits in the full IP landscape. Where we sit in
- 11 relation to the district courts, the ITC, the
- 12 Federal Circuit, and the Supreme Court. Third, we
- 13 plan to offer you some suggestions based upon our
- 14 review of your work product coming to us through
- 15 those appeals and trials for things you might want
- 16 to consider in prosecuting your patent application
- 17 to make it stronger and better able to withstand
- 18 an issuance challenge.
- 19 Some things we plan to talk about,
- 20 nesting of claims, ensuring you have multiple
- 21 embodiments in your disclosure, ensuring you get
- the best art in front of the examiner during

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prosecution. And then, finally, we want to talk
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       to you about some of the myths that you may have
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      heard about the Board and clarify whether those
      myths are false or whether they really should not
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      be called a myth, but instead a fact. So, we have
       a kind of a session planned for you that we think
      hits the issues you want to know most about PTAB.
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 8
                 And then, finally, the last item on our
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       slide, we are starting a brand new webinar series
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       called Inventor's Hour. This series will debut on
       Thursday, August 26th. It will, thereafter, occur
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12
       on a monthly basis. And we're going to try
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       something new here. It's not a straight hour on a
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       given topic. Instead, it's an hour on a whole
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      bunch of different topics. We want everything
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       single Inventor Hour series to be relevant to any
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       concern you have about the Board. So, it' going
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       to be more like a news segment where we do short
19
      vignettes into who the Board is, aspects of
20
       appeal, aspects of trial, our statistics, our
       interesting history about the Board. We want to
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make the Board as accessible as we can to the

- inventing community through this series. So, we
- 2 hope that you all will tune in for our debut and
- 3 monthly thereafter.
- I believe that we'll take some questions
- 5 at the end. We have one more slide to cover
- 6 before that, though, and I'm going to pass the
- 7 floor over to Vice Chief Judge Mike Kim to talk to
- 8 us about some data efforts.
- 9 JUDGE KIM: Thank you, Janet. So, as
- 10 everyone is aware, at the community's request,
- 11 PTAB and Patents have been working together to
- show how we have and continue to improve the
- process, both here at PTAB and also at Patents.
- This is something we've always done, that we'll
- 15 continue to do, and we welcome comments and
- 16 suggestions on past (audio drops).
- 17 On a lot of the forums, presenting
- 18 regularly on our efforts to increase transparency
- 19 with you and to also maintain confidence with the
- 20 public is very important. And so we're glad to
- 21 have the opportunity.
- 22 As you are also aware, for organization

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1 purposes, we divided up this inquiry into three
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- 2 phases. The first phase highlights the strategic
- 3 coordination between PTAB and Patents. There are
- 4 so many efforts, large and small here, that are
- 5 too numerous to count, many of which have been
- 6 reported on previously. I think an excellent
- 7 example of which (audio drops) with the training
- 8 and cross-collaboration that was just addressed by
- 9 Vice Chief Judge Gongola.
- The second phase which concerns how PTAB
- 11 accounts for Patents' work, and also just been
- 12 reported to you by Judges Deshpande and Horner.
- 13 This issue is something that has been in our radar
- since the beginning of AIA. That belief of which
- 15 (phonetic) because it is required by Fetchie
- 16 (phonetic). Certainly this changed over time as
- we learned more and adapted policy, such as
- 18 through Presidential decisions like Advanced
- 19 Bionics. And I am confident it is something that
- will continue to evolve, especially with your
- 21 participation and input.
- 22 And, finally, we have Phase 3, where we

- discuss how patents accounts for PTAB's work. And
- 2 as noted in the opening remarks by Acting Director
- 3 Hirshfeld, I am pleased to report that PTAB has
- 4 been and will continue to work closely with
- 5 Patents on this and are making progress, both on
- 6 the sharing of collected data and joint analysis
- 7 fronts. We look forward to presenting any result
- 8 to you in the future. Thank you.
- 9 JUDGE BOALICK: Thank you, Mike. And I
- 10 think now we will take questions. We see there
- 11 was one question in the Chat, having to do with
- 12 the Director review process that was asking if the
- 13 rules for rehearing apply to Director review or
- 14 from a party challenge, PTAB, for being wrong
- 15 regardless of the rehearing standard, and if it's
- on the single request, how is it framed to cover
- 17 the standard. So, I'll turn that over maybe to
- 18 Linda and Kal to address that question.
- 19 JUDGE HORNER: Thanks, Scott. Well,
- 20 first, I would direct everyone's attention to our
- 21 question and answers posted on our webpage,
- 22 specifically Question D2, which covers what

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1 criteria the Advisory Committee uses when
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- 2 iterating Director review requests. It provides
- 3 some examples of criteria, including matters that
- 4 that the Board has misapprehended or overlooked
- 5 due to the rehearing standard. But it also
- 6 includes, for example, material errors of specter
- 7 law, novel issues of law policy, or issues on
- 8 which the Board's panel decisions are split, or
- 9 other issues of particular importance to the
- 10 Office of Patent Community et cetera. SO that
- 11 provides sort of a framework for possible areas
- where Director review might be of interest and
- 13 advisable.
- So, Director review is (audio drops).
- We have that in our materials as well. And so,
- 16 I'll just remind everyone that, as Judge Deshpande
- noted in his comments, that parties can request
- 18 either Director review or Panel rehearing, but not
- 19 both. So, in the single request, bear in mind the
- 20 criteria set forth in Question D2.
- 21 JUDGE BOALICK: And, so I don't know if
- 22 there are other questions about Arthrex or any of

- 1 the other PTAB topics. I will note that there
- 2 appears to be a question on the item that Drew
- 3 mentioned about trademarking. I'm not sure when a
- 4 good time might be to answer that. But I'll just
- 5 -- if you have questions, please let us know, and
- 6 then we'll turn the floor back over.
- 7 MS. MAR-SPINOLA: Scott, this is Julie.
- 8 Pardon me, Drew, go ahead.
- 9 MR. HIRSHFELD: You probably were going
- 10 to the question that came in the Chat on
- 11 trademarks. But that's what I was going to say
- is, as I mentioned, have to leave shortly for
- another meeting, actually, another public event
- coming up, but there is a question that came in
- about the trademark filing, let me just find it
- here. So, the question was, which non-conflicted
- 17 employee of the Office gets to examine the
- 18 trademark application, and doesn't this need to be
- done by statute to protect the CO of the Office.
- 20 So, obviously, I'm not surprised by the
- 21 question. We've given this a great deal of
- 22 thought about the oddness, and we recognize the

- 1 oddness of applying for trademark protection where
- 2 a USPTO employee obviously will be an examiner.
- 3 However, this case will be -- these filings will
- 4 be subject to all the same procedures and rules as
- 5 any other trademark filing goes forward. So, I
- 6 can't answer the specific question about which
- 7 examiner, et cetera. But I want you to know that
- 8 the same procedures will apply for these
- 9 applications as any others.
- 10 And I just wanted to point out that we,
- of course, recognize, and I recognize, the oddness
- of the situation. And even in Dave Gooder's blog,
- Dave, of course is the Commissioner for
- 14 Trademarks. In his blog, he acknowledges this
- issue as well. And I'll just say from my personal
- 16 standpoint, the Office should do, and I'm not
- doing my duty if we are not taking upon the
- 18 responsibility to protect our stakeholders in
- 19 every way possible. So, notwithstanding the odd
- 20 situation that we have in front of us, I feel it's
- 21 very important for us to take a step, so that we
- 22 can better protect applicants. We've seen a

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1 number of situations arise where people are taking
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- 2 our marks and defrauding our stakeholders. So, I
- 3 hope you can all recognize that that is our
- 4 priority and we're going to take every step -- as
- far as I'm concerned, we're going to take every
- 6 step we can to protect all of you.
- 7 MS. MAR-SPINOLA: Thank you, Drew. I
- 8 think that it helps to address the issue directly
- 9 and candidly. And I think that's all that we can
- 10 do for transparency at this point. And allow the
- 11 process to take place first. So, thank you for
- that response. Are there any other questions to
- 13 Director Drew or to Chief Judge Boalick?
- 14 JUDGE BOALICK: Excuse me, I can see one
- more question in the Chat, which is one that I
- 16 know has been very carefully considered, asking
- about the authority of Drew's performing the
- 18 functions and duties of the Director to actually
- 19 issue the decisions for Director review. I guess
- 20 I'd offer Drew if he'd like to answer that, or I'm
- 21 happy to address that.
- 22 So, I think what I would say is that

- this a question that has been very carefully
- 2 considered, and we strongly believe that Drew as
- 3 performing the functions and duties of the
- 4 Director has ample legal authority to issue those
- 5 decisions. It is an issue that's looked at very
- 6 carefully, but we are very confident that of the
- 7 answer.
- 8 MR. HIRSHFELD: Thanks, Scott. I have
- 9 nothing to add other than just to reiterate what
- 10 Scott said. This, obviously, of course, is being
- 11 considered and thought about and we're well aware
- of some people's opinions in this regard, and so
- we have certainly done our due diligence in this
- 14 respect.
- JUDGE BOALICK: Great. And I see
- another question about will the interim procedures
- 17 undergo sort of a notice and comment rulemaking
- 18 procedure. I guess at least what I can say for
- 19 right now is that, as we mentioned, these are
- interim procedures. We're interested in the
- 21 public's input about what should transpire for the
- future. I would say that is a possibility, but at

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1 this time, I think we're gathering input and
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- 2 information about what the next steps are.
- 3 MS. MAR-SPINOLA: Thank you, Scott. I
- 4 think that Jeremiah Chan has a question?
- 5 MR. CHAN: Yes, thank you, Julie. I had
- 6 a question actually for Judge Michael Kim. I was
- 7 kind of excited to hear about some of the
- 8 collaboration, cross-agency collaboration with the
- 9 process of data-sharing. Would love to hear a
- 10 little bit more about what kind of roadmap for the
- 11 next three to six months. And, frankly, where are
- we trying to get to? What does that end state
- 13 look like on that collaboration?
- 14 JUDGE KIM: Sure. Thank you very much
- for the question. So, that was addressed, in
- large part, by what Acting Director Hirshfeld said
- in his opening remarks. You know, finding why
- 18 claims are held invalid, the reasons, and the
- 19 basic questions, were they before the Office, you
- 20 know, the art that was applied officially before
- Office, you know, if it wasn't, why not. And
- 22 really getting to fundamentally know what

- 1 (inaudible) all this, so that we can take all the
- 2 information and work with Patents to have a
- 3 feedback loop in the process.
- 4 MS. MAR-SPINOLA: Okay, Steve.
- 5 MR. CALTRIDER: I think we'll try and
- 6 stay on time here, Julie, and hand back things
- 7 over to you and to proceed to the next agenda
- 8 item. Thanks very much for everyone. Good
- 9 presentation, very informative.
- 10 MS. MAR-SPINOLA: And thanks Steve and
- 11 PTAB. I would encourage folks, if they have
- 12 further questions, to send them to us, and we'll
- 13 try our best to respond to them, either today or
- 14 after today's meeting. So, let's move on to
- 15 Patent Pendency and Quality. So let me hand it
- over to Jeff Sears, our chair of the subcommittee.
- 17 MR. SEARS: Thank you very much, Julie.
- 18 Happy to be here today. We have a great
- 19 presentation coming up from the Pendency and
- 20 Quality side of the house. We are going to be
- 21 talking about two topics that don't get a lot of
- 22 air time, but are really significant, nonetheless.

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1 The first is going to focus on design
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- 2 patents. We focus a lot of utility patents, but
- design patents, as we know are also a key aspect
- 4 of commercial protection for certain types of
- 5 products. And then we're going to turn to a
- 6 presentation on the petition process. I turn it
- 7 over now to Robin Evans, of the Office.
- 8 MS. EVANS: Thanks, Jeff. It's a
- 9 pleasure to share with PPAC. As you said, we
- 10 don't hear a lot about design, but you've heard
- 11 from Karen Young before. She is the Director of
- 12 TC 2900, specifically design. And she's going to
- 13 talk to us today, share about the quality of
- design drawings and they've been working on this
- for a very long time, and you've heard about this
- before. And so, we want to bring Karen back, so
- 17 that she can talk about the improvements that
- they've made thus far. So, I'll turn it over to
- 19 Karen Young.
- MS. YOUNG: Check to make sure you can
- 21 hear me. All right, thank you. Next slide,
- 22 please. So, as I mentioned, thank you so much for

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letting me join you today. I am Karen Young, the
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- 2 Director of the Design Group. And when I talk
- 3 today about drawing, I am referring to the
- 4 drawings that are published with the issued
- 5 patent.
- So, by way of background, back in 2016,
- 7 the USPTO received feedback that the images
- 8 published as part of the design patent grants were
- 9 degraded compared to the images provided to the
- 10 Office by the applicants at the time of filing.
- 11 So, the Office looked into the issue, and it was
- 12 noted that during the overall electronic
- 13 processing of an application, and by that I mean
- 14 the entire process -- the initial receipt of the
- 15 files, the movement of the files into the
- 16 examination tools, and in the last stages, which
- is the publication and dissemination of the
- 18 patents.
- During that overall process, there was a
- 20 specific conversion process where all the incoming
- 21 file types were converted to another file type, a
- 22 raster type. And this conversion was mainly

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1 responsible for the degraded quality of the image
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- 2 in the design patent grants.
- Next slide, please. So to address this
- 4 issue, back in 2016, the USPTO changed part of its
- 5 process and moved to preserving vector-based
- 6 drawings submitted by applicants in.pdf. These
- 7 drawings are stored and displayed in a system
- 8 called the Supplemental Complex Repository for
- 9 Examiners. That's a mouthful, so we shortened
- 10 that to SCORE. So, the SCORE drawings are looked
- 11 at by examiners when they examine applications and
- 12 the SCORE drawings are pulled and used in a
- printed, official paper patents that are mailed to
- 14 the applicant. They are also loaded into the
- supplemental content of the electronic files of
- our patent application files that are viewable by
- 17 our external stakeholders.
- Next slide, please. I want to take a
- 19 moment to show you examples of the improved
- 20 quality that resulted from that process change.
- 21 On the left side, you'll see the image as it ends
- 22 up after the conversion process that was

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1 identified as responsible for the degradation of
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- 2 the image. On the right side, you see the
- 3 vector-based drawing image the applicant submitted
- 4 which is preserved and, again, this SCORE image is
- 5 used by the examiners. It's included in the
- 6 printed patent grant sent to applicants and it's
- 7 available to stakeholders in the supplemental
- 8 content area of the electronic file, so they can
- 9 view it. In the enlarged areas, especially, you
- 10 can see the cleaner, sharper lines of the
- 11 preserved vector-based image on the right.
- 12 Next slide, please. So, here's another
- 13 example where the drawing image of the tire tread
- is so much better on the right side, which is the
- image in SCORE. So, I've noted that the images
- 16 preserved in SCORE are used by examiners. They're
- images received by applicants as part of the paper
- 18 patent grant and the SCORE images (inaudible) to
- our applicants. I can't emphasize that enough.
- 20 So, these changes that were implemented
- 21 in 2016, they did greatly improve the quality of
- 22 the design patent drawings. However, let's fast

- 1 forward to today. The USPTO remains committed to
- 2 providing high quality patent drawings, and thanks
- 3 to feedback from both external customers and
- 4 internal reviews, we have noticed some issues that
- 5 have arisen.
- 6 So, I want to point out some of the
- 7 issues, provide tips to applicants to avoid these
- 8 issues and mention our ongoing effort to continue
- 9 to make improvements. So, if you can go to the
- 10 next slide, please. So, here I am showing a
- 11 portion of a design. On the far left is how the
- drawing appears as filed in SCORE. In the middle,
- is that same portion and how it appeared on the
- 14 issued patent. You can see that there's an entire
- 15 area whited out. And on the right side, in blue,
- is a box that you can't see in the as-filed
- version, but it's there, and it was revealed
- during the data capture printing process as the
- 19 reason for the whited out area.
- 20 Let's go to another example. Next
- 21 slide, please. So, in this example, the portion
- of the design I am showing is meant to be very

- light, as filed and seen on the left. However,
- 2 the printed patent included blacked out areas as
- 3 shown in the middle. Then on the right, I'm
- 4 trying to illustrate that a translucent layer was
- 5 found to be present. That is the reason for the
- 6 blacked out area.
- Next slide, please. I have two more
- 8 examples of issues that we've become aware of.
- 9 The first, as seen here, is in the published
- 10 patent drawing is pixelated. You can see the
- difference between the As Filed and the As
- 12 Published.
- Next slide, please. We're also seeing
- some small gaps in the lines of the patent
- drawings. Sometimes these are only visible when
- 16 you really zoom in on an image.
- Next slide, please. So, the Office is
- 18 committed to continuing to work with the
- 19 stakeholders and working internally to improve
- 20 patent drawing quality. I believe communication
- 21 and awareness is key, as we work together on this
- 22 effort. And so to that point, I wanted to note a

- 1 few items. When the drawings are submitted as
- 2 vector-based drawings, they are treated as
- 3 vector-based drawings throughout the entire
- 4 process.
- 5 Next slide, please. If the vector-based
- 6 drawings have invented elements in them that are
- 7 raster, the entire drawing has to be processed as
- 8 a raster image.
- 9 Next slide, please. So, applicants can
- 10 help the Office by checking for hidden objects,
- 11 check for layering, and make sure all the drawings
- 12 are flattened before submission.
- Next slide, please. So, internally,
- 14 steps that have been taken include training USPTO
- 15 staff to better detect those unexpected outcomes
- in the final drawings. Where possible, several IT
- and software improvements have been implemented to
- 18 correct some types of output errors that have been
- 19 noted. The most recent update was made on March
- 20 10th, where the software we believe has resolved
- 21 the pixation [sic] issues and the issue where
- there is a gray output that's darker than the

- 1 source. We are exploring further solutions, for
- 2 example, to address the gaps in the lines and the
- 3 semi-transparent overlays that are being replaced
- 4 by the opaque blocks in the output. We will
- 5 continue to explore solutions for those items.
- 6 Next slide. That's my update for you
- 7 today. I do have my information here, and I'm
- 8 happy to assist you in the future. If you have
- 9 any questions, don't hesitate to reach out to me.
- 10 Thank you very much for letting me speak today.
- MR. SEARS: Thanks very much, Karen.
- 12 This is Jeff. I do have a couple of questions for
- 13 you. They're really two in the same topic. The
- first is how did the Office identify these drawing
- issues? For example, how did the Office figure
- out pixilation was happening. And second, how did
- 17 the office figure out what the underlying issue
- 18 was?
- MS. YOUNG: So, that's a very good
- 20 question. It is a twofold effort of how we found
- 21 out about it. We did get feedback from our
- 22 external customers who received a patent that did

- 1 not look like what they submitted. So, we did get
- 2 some external feedback that helped us see that
- 3 there was a problem. We also had examiners who,
- like I mentioned, they are trained to look at the
- 5 SCORE drawings. However, when they are searching,
- 6 they are looking at sometimes more degraded files,
- 7 and then they have to go into SCORE to see the
- 8 actual drawing. And when they saw the patent
- 9 drawing had overlaid images, that was like, this
- is not right, this is not what I'm expecting to
- 11 see, and they brought it to our attention.
- 12 So, then the USPTO worked closely with
- 13 the folks -- our open area, our automation area,
- 14 worked closely with the folks responsible for the
- publication and tried to get examples and work
- 16 through things to see what the actual issue was.
- And I'm happy we've been able to resolve some.
- 18 Clearly, we still have some more items to address.
- 19 And we are continuing to review to make sure
- 20 nothing else happens as a result of a change in
- 21 the process. So, please, we welcome any input as
- 22 people see an issue, please let us know about it.

- 1 MS. MAR-SPINOLA: Karen, this is Julie
- 2 Mar-Spinola. How are you?
- MS. YOUNG: I'm fine, thank you. Hi,
- 4 Julie.
- 5 MS. MAR-SPINOLA: Good. A couple of
- 6 questions, one from outside but one from me which
- 7 is, it sounds like the image issues are more or
- 8 less discovered after publication. Is that right?
- 9 MS. YOUNG: If it's a glaring issue,
- 10 it's found out during the conversion process, so
- 11 you don't realize there's an issue until you see
- the final result, and the final result doesn't
- 13 look like the input.
- MS. MAR-SPINOLA: So, I was just
- 15 wondering is there an earlier stage to review the
- images, maybe even with the inventor, to determine
- whether there are any image issues?
- MS. YOUNG: Cooperation with the
- inventor would definitely be something that we
- 20 might potentially look into. We did, though, as I
- 21 mentioned, train kind of the staff to kind of do a
- 22 quality review and to look for those unexpected

- 1 outcomes before the final release of the drawing
- 2 to try and catch things. And the software that
- 3 they have worked on deploying has been trying to
- 4 catch some of those (audio drops). So, I'm
- 5 hopeful that we can go more of an IT solution,
- 6 which would be a little bit maybe quicker than
- 7 having another interaction back and forth with an
- 8 applicant. But it's certainly something we could
- 9 consider if we need to explore more solutions.
- 10 MS. MAR-SPINOLA: Great. Thank you.
- 11 So, just turning to a question from the outside,
- does the vector-based drawings preference suggest
- 13 that Adobe Illustrator is a preferred drafting
- tool with DCI for raster images?
- MS. YOUNG: I definitely can't comment
- on a preferred drafting tool. I know there's many
- 17 out there that are equally well. I would say that
- 18 the most important thing is that if you can make
- 19 the images as sharp as possible, get rid of all
- 20 the layering, and when you submit them, you should
- 21 be able to go into the SCORE. And what you are
- seeing is what we want to see on the end. So, if

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1 you are happy with the way they uploaded, then
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- that's what we want to see on the other end. I'm
- 3 sorry, I can't comment on a particular tool.
- 4 MS. DURKIN: It's Tracy Durkin. I was
- 5 just going to add an important comment for the
- 6 public after sitting here, and what a great effort
- 7 you and the Office have made on getting to the
- 8 bottom of this. But I think the important
- 9 takeaway for the public here is that, when you
- 10 look at a design patent, particularly one that's
- in the search files, that it's very likely in some
- 12 cases that the drawing as published on the patent
- is not what the right is. And so, going into that
- 14 SCORE file and actually looking at the drawings
- that were examined and the drawings that were
- 16 approved, is really important, especially if
- 17 you're evaluating a third-party patent and trying
- 18 to determine whether or not there might be an
- infringement problem.
- So, I think the important takeaway here,
- 21 until this is completely resolved forever and
- ever, is you can't really take the patents, in

- 1 some cases, at face value. That you really do
- 2 have to go into that SCORE file. I think that's
- 3 particularly important for things like broken
- 4 lines that sometimes don't show up clearly or
- 5 solid lines can show up as broken lines,
- 6 particularly in that pre-2016 time period. So,
- 7 we're on the right track. Just a word of caution
- 8 to folks, especially if they're not familiar with
- 9 the SCORE file, I just wanted to make that
- 10 comment. So, thank you, again.
- MS. MAR-SPINOLA: Jeff?
- MR. SEARS: Thanks very much, Julie.
- 13 Thanks very much, Karen. Really, I would like to
- 14 laud the efforts of the Office on identifying and
- addressing these issues. Really great effort.
- 16 I'm going to turn it over now to the Patent Office
- 17 to talk about petitions. Before we get to
- 18 petitions, I'd just like to make a couple of very
- 19 brief comments. Petitions can sometimes be an
- obscure topic, but we, probably, whether as
- 21 applicants, attorneys, or inventors have filed one
- or more of them. Petitions for Track 1, for

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1 example, the expedited examination, petitions for
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- 2 patent prosecution, petitions to revive. These
- 3 are all sorts of your common petitions. So, I
- 4 turn it over to the Office for the presentation on
- 5 petitions.
- 6 MR. HANLON: Good afternoon. This is
- 7 Brian Hanlon. I'm the Assistant Commissioner for
- 8 Patents, overseeing the Office of Petitions. And
- 9 this afternoon, you will receive a presentation
- 10 from Kristen Matter and Fenn Mathew. They're
- 11 going to speak to you today about how petitions
- 12 are processed within the Office and also provide
- you with some statistics and electronic resources
- that you can use for frequently filed petitions
- and you can use to expedite your petitions. So
- with that, I will turn it over to Kristin to start
- 17 the presentation.
- 18 MS. MATTER: Thank you for inviting us
- 19 here today. Oh, am I unmuted? All right. Thank
- you, Brian. And thank you, Jeff and all the
- 21 committee members for inviting us here today.
- 22 Before I talk about the flow of

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1 petitions, and I'm sorry, you can progress to the
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- 2 next slide, please. So, before I talk about the
- 3 flow of petitions, I think it's important to
- 4 remember that, although there is an Office of
- 5 Petitions at the PTO, we don't actually decide
- 6 every petition that is filed. Petitions to the
- 7 Director are delegated to various officials
- 8 throughout the Office, and these delegations are
- 9 outlined extensively in MPEP 1002.02.
- 10 For example, 1002.02E list approximately
- 11 50 different petition types that are delegated to
- 12 the Deputy Commissioner for Patents who oversees
- 13 the Office of Petitions. And we do handle the
- majority of petitions filed with the PTO. The
- 15 Technology Centers decide at least 20 different
- petition types as well, and these are listed in
- MPEP 1002.02C. For purposes of today, that's
- 18 really our focus, petitions that are handled by
- 19 the Technology Centers and the Office of
- 20 Petitions, since those are the most commonly filed
- 21 petitions with the Office. However, I believe
- there are least 12 distinct business areas

- 1 included in MPEP 1002.02.
- Next slide, please. This slide is an
- 3 overview of the general process of how petitions
- 4 work their way through the office. The process
- 5 starts when a petition is received by the PTO.
- 6 For purposes of this slide, we're not really
- 7 talking about ePetitions, but we're focused on
- 8 petitions received through mail, fax, hand-carried
- 9 or EFS web.
- 10 That application document is placed in
- 11 the electronic record and given a document
- description, similar to every paper in the image
- 13 file wrapper. That document description is
- 14 important because it generates an internal message
- to a specific business unit, who then either
- re-routs the document, if necessary, or enters
- that petition into POM, where it sits in a queue
- 18 until it get assigned and decided by an
- 19 appropriate official.
- 20 And I want to stay here for just a
- 21 moment longer and really emphasize the importance
- of these document descriptions or doc codes.

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1 Because petitions are handled by various areas
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- 2 throughout the Office, one of the ways to help
- 3 reduce pendency is by initially routing the
- 4 petition to the correct area. When filing papers
- 5 via EFS web, applicants choose a document
- 6 description. So by choosing an accurate document
- 7 description for their petition, applicants can
- 8 help reduce processing delays and avoid a
- 9 situation where that petition just sits in the
- 10 file until someone happens to notice it. And the
- same rules apply when mailing or faxing a petition
- in, except the Office will find that document
- description based off the use of a particular PTO
- form or a header or label on that paper, for
- 15 example.
- Once that petition is entered in a POM,
- as I mentioned, the petition remains in queue
- 18 until it is docketed, generally in the order it's
- 19 received to an appropriate deciding official.
- 20 That official will take a detailed look at the
- 21 petition and usually grant it, dismiss it, or deny
- 22 it.

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                 A granted petition is one where the
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       requested relief is fully provided.
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       application will often then be routed to another
      business area for further processing, such as
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       entry of an amendment that was filed as part of
       the grant full petition to revive. A petition is
       dismissed where the relief is not granted;
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       however, the matter may be reconsidered through a
 9
       renewed petition. And this includes adverse
10
       decisions by Technology Center or Central
      Re-Examination unit directors. Their decisions
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12
       can be reviewed under 37 CFR 1.181 by the Deputy
      Commissioner for Patents who oversees the Office
13
      of Petitions. And, finally, a petition is denied
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       where the relief is not granted and the USPTO's
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       consideration of the matter is concluded. It's
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17
       important to know that only certain delegations
18
       can result in a final Agency action, but that does
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       include petitions delegated to the Deputy
      Commissioner for Patents.
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                 And that's all I have regarding the
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process. I believe we'll take questions at the

- 1 end, so I'm going to pass this off to Fenn to
- 2 cover some numbers. Next slide, please.
- 3 MR. MATHEW: Thank you, Kristen. Good
- 4 afternoon, everyone. So, by way of background,
- 5 the Office of Petitions staff includes 20
- 6 paralegals, 8 attorney advisors, 7 petitions
- 7 examiners, and a management staff consisting of 3
- 8 deputy directors and a director.
- 9 As we can see from the table here, the
- 10 Office of Petitions decided about 44,500 petitions
- in FY20, which was an increase of about 2,500
- 12 petitions from FY 19. You can also see, despite
- an additional 2,000 petitions in FY20, the overall
- average pendency of all petition types dropped
- from FY19 to FY20, indicating that the Office of
- 16 Petitions was deciding in a much more expeditious
- manner.
- We've also included statistics for Track
- 19 1 and patent prosecution highway petitions on this
- 20 chart. The reason for that is Track 1 and PPH
- 21 petitions account for over 20,000 petitions per
- 22 year. So, a little less than half of the

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1 petitions that are filed. And, of special note,
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- 2 are Track 1 petitions. Track 1 petitions are
- 3 petitions for prioritized examination and they are
- 4 subject to a cap of 12,000 grants per year. So,
- 5 since applicants are providing or paying an
- 6 additional fee for prioritized examination, it
- 7 behooves the Office to handle those petitions in
- 8 an expeditious manner. And, in FY20, 98 percent
- 9 of Track 1 petitions were decided in 40 days or
- 10 less. So, as I have noted, those are two of the
- 11 most frequently filed petitions. Other frequent
- 12 petitions that are filed include petitions to
- 13 revive an abandoned application or to withdraw a
- 14 holding of abandonment, petitions to accept late
- priority claims and papers, petitions to accept
- late maintenance fees, petitions concerning patent
- term adjustments, and petitions to make special
- 18 based on age or health.
- So, later on in the slides, I'll be
- showing some of the electronic resources, where
- 21 this information can be found along with pendency
- 22 numbers that can be found for those specific

- 1 petition types.
- 2 Next slide, please.
- 3 MR. SEARS: Fenn, before you move on,
- 4 this is Jeff. I have a question. It's a question
- 5 about pendency. So I know for any given taste, if
- 6 you file a petition that takes 40 days or 100 day
- 7 to decide, but certainly your pendency in that
- 8 case might be affected. What's your view on
- 9 whether the Office's handling of petitions,
- 10 generally, has any effect upon pendency across the
- Office. And I'll give you my gut feeling on the
- map -- there's about 40,000 petitions per year.
- 13 The Office gets about 600,000 new applications.
- 14 So my gut feeling would be the overall effect on
- 15 pendency is probably negligible. I'm just curious
- if the Office has thought about it.
- MR. MATHEW: Sure, thanks for that
- 18 question, Jeff. And the pendency can be impacted
- in two distinct ways. So, we have petitions to
- 20 make special or for prioritized examination. So,
- 21 that's kind of impacting pendency on the front end
- 22 because granting of those petitions will allow the

- 1 applications come to the examiner in an expedited
- 2 manner. So, we kind of have some petitions that
- 3 will impact that and, specifically, I noted PPH
- 4 petitions and Track 1 petitions, so roughly 20,000
- 5 of those petitions are decided each year, and
- 6 those do have an impact on pendency on the front
- 7 end.
- Additionally, we will have what we call
- 9 critical petitions. Petitions, for example, that
- 10 -- for delayed priority claims. Which could
- impact examination downstream. And while we don't
- 12 have the high number of petitions of that
- 13 particular type, it does impact prosecution and
- 14 pendency and therefore -- it doesn't affect a lot
- of the cases, but it does have an effect on some
- 16 pendency.
- 17 MR. SEARS: Thank you.
- MR. MATHEW: So, continuing with this
- 19 next slide, this is just a snapshot of the current
- 20 fiscal year, specifically as of July 1st. This is
- 21 a graph displaying the undecided petitions in the
- Office of Petitions by age. The overall pendency

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1 is about 65 days for undecided petitions. As of
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- July 1st, we had about 7,800 undecided petitions.
- 3 As you can see, the vast majority of our petitions
- 4 are within three months that are yet to be
- 5 decided, so we're continuing to make strides in
- 6 our overall pendency with respect to petitions.
- Next slide, please. So now we have some
- 8 statistics on the Technology Centers. As you can
- 9 see, the Technology Centers typically decide about
- 10 10 percent of the total petitions, in terms of
- 11 total number, about 4,600 petitions, as opposed to
- the 40,000-plus that the Office of Petitions
- decides. And we have some pendency statistics
- 14 here, specifically with respect to the Review of
- 15 Final Restriction Requirement and Relating to
- 16 Prematureness of Final Rejection. These are two
- 17 petition types that are often seen in the
- 18 Technology Center and that are very important with
- 19 respect to pendency.
- Before I dive into the numbers, as an
- 21 initial matter, we'd like to reinforce one point.
- There has been some suggestion that the Office

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deliberately delays decisions on petitions
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- 2 relating to prematureness of final rejection until
- 3 an applicant file an RCE, only to then dismiss the
- 4 petition as moot. So, we wanted to dispel the
- 5 notion that this is the practice. The Office in
- 6 no way sanctions or condones that type of
- 7 behavior. While we have had some outlier
- 8 instances where these types of petitions have been
- 9 dismissed as moot after filing an RCE, they are
- 10 just that. They are outlier instances.
- 11 The Office acknowledges and is cognizant
- of the limited time period that applicants have
- 13 after final rejection And we continue to make
- 14 strides in deciding these petitions in a more
- 15 expeditious manner. And this is happening through
- 16 communication between the Technology Centers as
- 17 well as improved tracking tools.
- 18 And so that provides a segue into the
- 19 data on the chart, which kind of shows that we are
- 20 making those strides. So, we see, with respect to
- 21 the review of final restriction requirement and,
- 22 as I mentioned, relating to prematureness of final

- 1 rejection, the average pendency has dropped in
- 2 both instants. For the third petition type that
- 3 is there, For Matters before the Technology
- 4 Center, this is kind of a catch-all,
- 5 miscellaneous petition type. Some of them can
- 6 include petitions to withdraw a drawing objection,
- 7 resetting of time periods, and expungement of
- 8 papers. So, some of the petition types that fall
- 9 under that code don't necessarily impact pendency
- in the same way as the first two petitions that
- 11 have been mentioned.
- 12 Next slide, please. So, now we wanted
- 13 to provide some resource that are available to the
- 14 public. So, the first is Patents Dashboard.
- There's a link for Petition Data off of the
- 16 Patents Dashboard. And this can be found off of
- 17 the Data Visualization Center page.
- 18 So, as I kind of alluded to earlier in
- 19 the presentation, this page provides data on
- 20 Office of Petitions petitions. Specifically, it
- 21 provides data on frequently filed petitions in the
- Office of Petitions, and many of them are the ones

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1 that I have mentioned previously, earlier in the
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- 2 presentation. They are divided by petition type,
- 3 they provide the average number days pending, and
- 4 this is a rolling 12- month average, as well as
- 5 the grant rate of the total petitions decided
- 6 within those past 12 months.
- 7 Additionally, we have ePetitions' and
- 8 non ePetitions' data. So, ePetitions are
- 9 petitions that are available for certain types of
- 10 petitions. For example, revival based on
- 11 unintentional delay in abandoned application. The
- 12 ePetitions, if submitted, are decided
- instantaneously and have 100 percent grant rate.
- 14 Certain requirements need to be met in order to
- file an ePetition, but if those requirement are
- 16 met, you will receive an immediate decision.
- To contrast that, we have the data for
- of the petition had been filed through standard
- 19 means, either through EFS web or through mail or
- 20 fax. As you can see, you're not going to get a
- lower average days, zero days. So the ePetition
- option, where available, is always advisable.

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1 And, likewise, the grant rate is 100 percent for
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- 2 ePetitions. You can compare the grant rate
- 3 between ePetitions and non-ePetitions.
- 4 Next slide, please. So, in addition to
- 5 the Patents Dashboard, we also have a Petitions
- 6 Timeline. Whereas the petition data off the
- 7 Patents Dashboard was limited to the Office of
- 8 Petitions, the Petitions Timeline provides
- 9 information based on all petition types. And the
- 10 page is well-constructed. There is a nice
- 11 navigation menu on the left, which shows petitions
- 12 and where they -- they're divided by stage of
- prosecution. So, you can see on the left, we have
- 14 choices for Prior to Examination, During
- 15 Examination, After Close of Prosecution, Allowance
- 16 After Payment of Issue Fee, and Post Issuance.
- So, as we can see, we see a little
- snippet here and we see under the Prior to
- 19 Examination, we see it further subdivided into
- 20 different categories. So, clicking on one of
- 21 these links -- next slide, please -- it will bring
- 22 up to a more detailed page. So in this -- we have

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1 a little snippet if you had clicked on the link
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- 2 Related to Advancement of Examination Petitions.
- 3 So, once again, you will have the
- 4 petition type, you will the average days pending
- of a decided petition, you will have the grant
- 6 rate percentage, and you will have the deciding
- 7 office. Additionally, you'll see on the column,
- 8 on the right- most column, there's an ePetition
- 9 option. If any of the petitions have an ePetition
- 10 option, there will be a link within the box next
- 11 to that petition type that will navigate you to
- 12 the ePetition page.
- 13 Under the petition type, all those
- 14 petition types are clickable links. As you can
- 15 see, there's numbers next to each of the petition
- 16 types. Those are internal codes. That's how we
- 17 kind of keep track and code of the different
- 18 petition types.
- 19 Other things to note, the deciding
- office; in this particular example, you can see
- 21 that three of the four petitions are decided by
- OPET or the Office of Petitions. One of the

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1 petitions is decided by the Technology Center.
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- 2 And we have the little legend at the top, since we
- 3 love our acronyms, to identify what each of the
- 4 deciding offices are.
- 5 The other plan for you to note, I mean,
- 6 the grant percentage you'll note under Petition
- 7 Type 644. You see the grant rate percentage is at
- 8 100 percent and you see that there's a little
- 9 asterisk next to that 100 percent. That is just
- 10 to indicate to the public that that is an
- infrequently filed petition.
- 12 Next slide. Thank you. That's all we
- had for our presentation, and we'd be happy to
- take any questions that you might have at this
- 15 time.
- MR. SEARS: Thanks very much, Fenn. I
- have a comment and then a question for the design
- 18 part of the presentation. The comment, could you
- bring up the pendency slide, basically the
- 20 histogram that shows the pendency of the petitions
- 21 across months.
- MR. MATHEW: Sure.

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1
                 MR. SEARS: Great, this is the slide.
 2
       So, something we worked on with the Office in
 3
       terms of pendency is what I heard referred to as
      moving a mountain. Sort of putting your hands on
 5
       the mountain on the right-hand side and trying to
       squash it over to the left. And things we look at
       are how long is the tail and also how tall is the
 7
 8
       tail. And when I look at this chart, what I see
 9
       is really tremendous progress by the Office. I
10
      mean, this is a mountain that is almost pushed
       entirely to the left. It's pretty close to
11
12
       idealized, so I really wanted to laud the Office
13
       for its great effort on attacking petitions.
14
                 Second, a question from the public
       regarding designs, a question for the Office -- if
15
16
       the published image differs from the image that
17
       was submitted to the Office through SCORE, what's
       the response for the applicant? Should the
18
19
       applicant file a request for Certificate of
20
      Correction to try to address that issue?
                 MS. YOUNG: Thank you, Jeff. That's a
21
22
       very good question. Can you hear me?
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1 MR. SEARS: Yes.
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- MS. YOUNG: We definitely would
- 3 encourage folks to go ahead and file for that
- 4 Certificate of Correction, absolutely.
- 5 MR. SEARS: Great. Thank you. Julie, I
- 6 see we are at 12:40, which is right on time for
- 7 the agenda. So, I will turn it over to you.
- 8 MS. MAR-SPINOLA: Excellent. Thank you.
- 9 Thank you, everybody for that. That was so very
- 10 interesting and informative, particularly on the
- design patents. Everybody's always interested in
- the pendency of the petitions. So, thank you very
- much for those details. We're going to now take
- 14 about a 10-minute break. We will resume at 12:50
- p.m. Eastern and see you in a few minutes.
- 16 (Recess)
- 17 (Recess)
- MS. MAR-SPINOLA: It's now 1:50 and
- 19 we're back on from the break. Thank you, Jeff,
- for your pendency quality presentation. Again,
- 21 very helpful, very interesting. We're going to
- 22 move now to finance and budget. Let me turn it

- over to Barney Cassidy, our chair of the finance
- 2 subcommittee. Barney? Barney, are you on mute?
- 3 I'm not hearing you.
- 4 MR. CASSIDY: Can you hear me now?
- 5 MS. MAR-SPINOLA: Yes.
- 6 MR. CASSIDY: Okay.
- 7 MS. MAR-SPINOLA: Thank you.
- 8 MR. CASSIDY: Thank you. Thank you for
- 9 the introduction and the notice that I was on
- 10 mute.
- 11 It is an important topic that I'd like
- to address before turning it over the Jay Hoffman
- for the periodic review of finances. The topic is
- 14 related to the fees that users pay to the PTO. I
- think everyone knows the PTO is funded entirely by
- 16 fees paid by the users and since the passage of
- the Leahy-Smith American Events Act which ended
- 18 fee diversion, the diversion of those user fees or
- 19 other agencies or other uses.
- 20 Since then, Congress has annually
- 21 appropriated to the PTO all of the fees that the
- 22 PTO estimates will collect during the fiscal year.

- 1 This for the first time, however, the President's
- 2 budget has asked for a lower amount to be
- 3 appropriated namely that the amount that PTO
- 4 initially expects it will spend during the year.
- 5 And the delta is about \$64 million.
- 6 This change is concerning to the Public
- 7 Patent Advisory Committee so much so that we have
- 8 taken the step of writing the appreciators to ask
- 9 that they return to the subtle practice of
- 10 appropriating the entire amount of fees that are
- 11 collected -- that are estimated to be collected at
- the beginning of the year. And I just want to
- point out a couple of reasons why we took this
- action and why we're so concerned about this.
- 15 First of all, these are fees that may
- only be used for the purposes of supporting the
- 17 work of the PTO. They eventually must be used for
- 18 that purpose. And what the change that the OMB
- 19 has mandated in the President's budget does is it
- 20 takes \$64 million and sort of puts it in a
- 21 separate account that we can't get to during the
- 22 year. We have to go through a separate process to

- 1 get it later. We will get it later. But what
- 2 happens during the year is actually quite
- 3 important.
- 4 I think everyone recognizes that the
- 5 special quality of patents and trademarks is that
- 6 they are time based as the Constitution says,
- 7 these are rights that are given for a limited
- 8 time. And you have a limited time as an inventor
- 9 to apply. We have restrictions on when we can
- 10 examine them and when we must finish that
- 11 examination process. These are time-based rights
- and the demand for those rights changes throughout
- 13 the year.
- One year, for example, you may have a
- spike of interest in vaccine patents related to
- MRNA. You may have a spike of interest in
- 17 alternative energy patents or in artificial
- intelligence patents. That requires the patent
- office to respond, for example, by giving more
- 20 overtime to the examiner's expert in those
- 21 important areas that are important for the
- 22 inventors and eventually for the American people

- 1 and society as a whole.
- 2 This takes away that flexibility. We
- 3 can meet those needs, but that will require that
- 4 we ignore other needs such as the ongoing
- 5 operating of our IT equipment and processes and
- 6 personnel. So this steals flexibility from the
- 7 patent office when they need it during the course
- 8 of the fiscal year. And, you know, these -- as I
- 9 said, eventually end up back in the hands of the
- 10 PTO. But the problem is that the loss of
- 11 flexibility which is, you know, what any prudent
- 12 enterprise would do during the course of the year
- particularly because this is not taxpayer money.
- 14 This is user fee based.
- 15 So that's my explanation of why we wrote
- 16 the letter. We're happy to take questions and
- 17 comments about that, but with that I'd like to
- 18 switch over now to Jay Hoffman and the
- 19 presentation that the PTO will provide about the
- 20 current status of our finances. Thank you. I
- think you're on mute, John.
- MR. MILDREW: Okay. Can you hear me

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1 now? Okay. Great. Thanks, Barney. I'm going to
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- 2 take over Jay Hoffman today. Jay had a scheduling
- 3 conflict and couldn't be with us today. So I'm
- 4 the Plan B, the back bench, whatever you might
- 5 want to say. I like to call myself the Deputy
- 6 Chief Financial Officer, but I've been called a
- 7 lot worse as well.
- 8 So I'm glad to be here today. I
- 9 appreciate your comments and why don't we jump
- 10 into the presentation. The good news is that our
- financial position overall is strong and we're
- 12 going to share our typical standard quarterly rack
- and stack for you today for '23 information here.
- And we'll go through the usual three
- 15 years. You know, we're always looking in the
- 16 financial office at three years. The current
- 17 year, which is fiscal year 2021. The budget year
- which is 2022 and the budget formulation year
- 19 which is 2023. Always keeping our eyes on all
- three years.
- 21 So the next slide. Our '21 status,
- 22 financial outlook. Our outlook is largely

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1 unchanged from what we presented to you in the
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- 2 last quarter. As we get closer to the end of the
- 3 fiscal year, our spending projection tends to firm
- 4 up a little bit which is good. And so, so far so
- 5 good.
- 6 We're still on the path of ending the
- 7 year above our minimum operating reserve level
- 8 which is set at \$300 million. And so, we're
- 9 looking at as you can see on the chart there our
- 10 projected end of year operating reserve, that very
- last line on the chart there under the patent's
- 12 column of ending the year with \$330.7 million. So
- that's \$30 million above our minimum, which is
- 14 always makes us feel comfortable when we're above
- our minimum operating reserve.
- 16 And we plan to spend more than what
- we're planning to collect this year, which means
- 18 we'll be taking funds out of the operating reserve
- 19 and that's exactly why a fee funded agency like
- 20 ours has an operating reserve. So we have a
- 21 continuity of operations. We can plan for the
- 22 work we need to do in the year and then execute

- 1 accordingly.
- 2 Our estimated patent fee collection is
- 3 \$3.098 billion and you can see that number on the
- 4 bold line there, FY21 estimated fee collections
- 5 under the patent column there. The \$3.098 billion
- 6 that's our estimated fee collections for patents.
- 7 And through June 30th, quarter three,
- 8 our total revenue collections are above our plan
- 9 by 1.7 percent, which is great. And our
- 10 application filings are 1.8 percent above our
- 11 planned levels as well as maintenance fees are
- above our planned levels at 3.5 percent. And I'll
- 13 show you on the next chart what that looks like
- 14 graphically.
- 15 You can see this chart shows the end of
- 16 year projections by C category. And just to
- orient you to the chart here. The percentages
- above or below zero are above and below our
- 19 current plan. So you can see that the percentages
- 20 actually above the bars indicate the percent
- 21 difference between our end of year projections of
- the fee category and the annual plan for the fee

- 1 category.
- 2 So you can see patent maintenance is
- 3 almost four percent, 3.95 percent above our plan
- 4 and that's good. And as we noted on the last
- 5 slide, the applications filings and maintenance
- 6 fees are all above plan. Next slide.
- 7 Okay. So this is the -- this graph
- 8 depicts the end of year aggregate revenue
- 9 projections for the patent's business line. And
- 10 each day, we're calculating an end of year
- 11 projection. This is the 25-day moving average
- 12 projection of revenue based on trends that we've
- 13 experienced so far in the fiscal year and also any
- 14 factors that we know that maybe occurring in the
- 15 future.
- So let me just give you an orientation
- 17 to the slide. The blue squiggly line there is our
- 18 end of year projections calculated every day. We
- 19 compare that blue line to the purple line, which
- is the straight line there, which represents our
- 21 most up to date plan. And the plan currently
- reflects \$3.098 billion and that's what was

- 1 referenced earlier in the slide just a few slides
- 2 before this one.
- 3 And the revenue is tracking at about one
- 4 percent above our plan, which is always good. We
- 5 have more revenue than you planned for. It's
- 6 tracking at \$3.127 billion or about \$30 million
- 7 above the plan or as I said about one percent.
- 8 Next slide.
- 9 So this slide here is the operating
- 10 reserve balance. The chart shows that patent's
- operating reserve balance is again, it's a 25-day
- moving average. You'll see that it fluctuates and
- as noted earlier, we're currently above our
- minimum level of \$300 million and that's that
- 15 straight line that goes across. You'll see it
- 16 fluctuates as the 25-day moving average adjusts
- for the spending and revenues as they come in.
- 18 It really is when you're running an
- 19 organization like ours that's as Barney mentioned
- 20 100 percent fee funded, it really is about
- 21 managing cashflow and how important that is.
- That's why any time we're above our minimum

- 1 operating reserve, it's a good thing. Okay. The
- 2 next slide.
- 3 So moving on from fiscal year '21 to
- fiscal year '22. The House and Senate
- 5 appropriations committees held hearings in May for
- 6 our budget. Both hearings focused on other
- 7 bureaus within the Department of Commerce not on
- 8 U.S. PTO. The appropriation request in the
- 9 President's budget is \$3.994 billion, which is
- 10 based on a projected spending requirements not fee
- 11 collections.
- 12 Fee collections are actually estimated
- 13 at \$4.05 billion. It's a difference about \$64
- 14 million that Barney referenced in his comments
- just before I started this presentation. But
- again, not to be concerned because the fees
- 17 collected in excess -- any fees collected in
- 18 excess of our appropriation will be deposited into
- 19 the special Barney noted, the Patent Trademark Fee
- 20 Reserve Fund and will be available to you as PTO
- 21 through a Congressional reprogramming request.
- 22 And so, this is a change from

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1 appropriating based on spending as opposed to
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- 2 collections as a change from past practice, but it
- 3 is an Administration budget request item and
- we're, as a part of the executive branch, we are
- 5 supportive of that change. The House Committee
- just so you know had a hearing just so you know,
- 7 had a hearing on July the 12th and appropriated
- 8 USPTO at the President's budget request number.
- 9 So I just wanted to make sure that you were aware
- 10 of that.
- Next steps for fiscal year '23 budget
- formulation. Right now, we're working on our fee
- 13 estimates and requirements for fiscal year '12,
- 14 which will be submitted to the office of
- management and budget on or about September 13th,
- but before that goes, once the draft is finalized
- 17 within the USPTO, the PACs and the Department of
- 18 Commerce will get a chance to review later on this
- 19 month.
- 20 And then public relief of the budget for
- 21 fiscal year '23 is expected in early February so
- 22 it would be February of 2022. And it starts the

- 1 Congressional appropriations process all over
- 2 again.
- 3 And so, with that I will conclude my
- 4 presentation. And thank you for joining me and
- 5 I'll be happy to answer any questions you may
- 6 have.
- 7 MS. MAR-SPINOLA: Sean, this is Julie
- 8 Mar-Spinola. And thank you very much. Nice to
- 9 see you.
- 10 MR. MILDREW: Hi, Julie. Nice to see
- 11 you too.
- MS. MAR-SPINOLA: Thank you. Thank you.
- 13 If we could go back. I think it was slide number
- 42 where you have a bar chart. If we can go back
- 15 to that slide?
- Specifically on patent maintenance where
- 17 you're almost four percent above the forecast. Is
- 18 there a breakdown of which maintenance fees are
- 19 being paid?
- MR. MILDREW: Julie, I don't have that
- 21 as part of this deck, but I'm sure we can get it
- 22 to you if that's something that you would like to

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1 see.
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- 2 MS. MAR-SPINOLA: I think so. I'm
- 3 sorry, go ahead.
- 4 MR. MILDREW: Yeah, please.
- 5 MS. MAR-SPINOLA: The reason why I'm
- 6 thinking about that is that I think it would be
- 7 interesting to see where the maintenance fees --
- 8 at what stage they're being paid for. There was
- 9 some concern maybe last year or so about whether
- 10 the last maintenance fee was being paid or not.
- 11 And so, I think that type of breakdown could be
- 12 helpful.
- MR. MILDREW: And, Julie, we've actually
- done some analysis on that very issue. And we'd
- be happy to share that with you because it's
- 16 really interesting and it's a little bit different
- than the narrative but I think we've been hearing
- 18 for the last couple of cycles.
- MS. MAR-SPINOLA: Yes.
- MR. MILDREW: So we'd be happy to share
- 21 that.
- MS. MAR-SPINOLA: That would great.

- 1 Maybe we can plan for the next meeting to share
- 2 breakdown. I do think it is, you know, I've
- 3 always been interested especially on the fee
- 4 setting -- during a fee setting discussion to
- 5 figure out the best place for the maintenance fees
- 6 to be increased or not increased. Okay. So
- 7 Barney, let me give it back to you. I think
- 8 you're on mute.
- 9 MR. CASSIDY: So it's like you saw and I
- 10 really appreciate that whole presentation. I
- don't have any other further remarks. And I think
- we can move along if unless there are further
- questions from feedback or from the chat?
- MS. MAR-SPINOLA: I'm not seeing any
- 15 questions in the chat so thank you, Barney. Let's
- 16 proceed to artificial intelligence and technology
- 17 with Jeremiah Chan, our chair of the subcommittee.
- 18 Jeremiah?
- 19 MR. CHAN: Great. Thank you, Julie.
- 20 And hello everyone. It's a pleasure to be here
- 21 today.
- 22 As we continued to live through the

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1 challenges of the pandemic, I am pleased to report
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- 2 that the PTL has continued to make significant
- 3 progress with respect to its initiatives in IT and
- 4 VI. The sustained productivity of the team during
- 5 these circumstances is really a testament to the
- 6 PTO strong leadership and its preparation and
- 7 adaptability to change.
- 8 Today, we're going to adjust our normal
- 9 sequence of it and start with AI policy then we're
- 10 going to move to IT and AI updates. For AI
- policy, we're going to have a reasonably published
- 12 AI patent dataset used in the recently issued
- 13 report inventing AI, tracing the diffusion of
- 14 artificial intelligence with U.S. patents.
- These datasets were released by the
- 16 Office of the Chief Economist who assisted
- 17 researchers and policymakers focusing on the
- 18 impacts of AI invention. And I think it's a
- 19 terrific example of the cross-agency collaboration
- that we've seen similar to the collaboration
- 21 previously mentioned by Judge Michael Kim on
- 22 process and data sharing between patents and the

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1 PETA. We will also share highlights from the
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- 2 previously issued report of the National Security
- 3 Commission on AI.
- 4 For IT initiatives, we're going to focus
- 5 on the main priorities of the team ever since the
- 6 beginning of the year which is cyber security,
- 7 resiliency, moving to the cloud. And we'll also
- 8 talk about the upcoming new structure related to
- 9 DOCX filing in January of 2022. And then to
- 10 close, we'll talk about AI initiatives and focus
- on enhanced search and CTC autoclassification.
- 12 It's probably worth noting that in
- discussing both IT and AI updates, we'll be using
- 14 our standard format, which essentially tracks the
- agency's practice of agile development. We'll
- 16 talk about the milestones accomplished in the last
- 17 three months and then we'll move to the goals that
- 18 we have set for the next three months. With that
- 19 I will turn it over to Coke Stewart.
- MS. STEWART: Great. Thank you so much,
- 21 Jeremiah. So what we wanted to do today was to
- 22 provide an overview of some of the activity across

- 1 government in the AI policy area.
- 2 And as many of you maybe aware of there
- 3 are active organizations in this field was created
- 4 by the government last year and that's the
- 5 National Security Commission on Artificial
- 6 Intelligence. Can we go to the next slide?
- 7 So this was created by the National
- 8 Defense Authorization Act. As you can tell this
- 9 is really a joint effort between the private
- 10 sector and the government. There are a lot of
- 11 heavy hitters on the committee. And in March of
- this year, they issued an enormous report. I
- think it's exceeding 1,000 pages. And the goal of
- 14 the report is really to address what our national
- security posture is with respect to artificial
- intelligence and what the government can do to
- 17 promote a better national security posture on that
- issue. Can we go to the next slide?
- 19 So as I said, it issued a report, a very
- lengthy report and one of the many chapters
- 21 related specifically to IP policy. Can we go to
- the next slide?

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1 So within that larger report, there were
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- 2 really two high-level recommendations. One was a
- 3 recommendation that the U.S. government really
- 4 develop and implement a national IT strategy. And
- 5 that is to incentivize innovation in the area of
- 6 AI emerging technologies.
- 7 So specifically, the commission,
- 8 although their recommendations are binding in
- 9 anyway, proposed a lot of different actions for
- 10 the government. And some of those were directed
- directly to DOC and USPTO. So they're asking us
- 12 to, you know, gather a subject matter expert in
- 13 this area, convene public deliberations, make sure
- that we are collecting and reporting out on data
- on IP policy.
- So the good news is that we have a
- 17 longstanding AI IP working group at USPTO. We've
- been meeting for several years. As many of you
- 19 are aware, we've issued our RCs. We've had a
- 20 report on AI issues. All of this is available in
- 21 the USPTLF site on our AI hub.
- 22 So this guidance from the commission is

- 1 very welcomed and it does channel very nicely with
- 2 the work that USPTO is already doing. Can we go
- 3 to the next slide?
- 4 An area that I think would be interest
- 5 to our stakeholders is their second recommendation
- 6 where it really drills down on a list of very
- 7 specific IP considerations and they identify 10 of
- 8 them. So as you can see, time eligibility.
- 9 Whether that is a net that's kind of capturing AI
- 10 inventions and whether that's an impediment to our
- 11 national security needs with respect to AI.
- 12 Issues involving China. Whether there
- should be IP protection for new kinds of
- intellectual property that might support
- 15 innovation in AI.
- So this is a list of 10 areas that they
- want USPTO to look at. So what, you know, they
- did is they asked the Secretary to ask USPTO to
- 19 look into those areas. And they've also asked,
- you know, the Vice President to take a role in
- 21 this and maybe for even there to be an executive
- 22 order.

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So those kinds of formal instructions so
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 2
       USPTO haven't taken place, but we are looking into
 3
       these areas in any event. We also agree that
       these are very important areas for us to be
 5
       researching in the IT policy arena. So we're
      moving ahead, recommendation or not, to be
       researching these issues. To be evaluating what
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 8
       we've done in the past? What we're doing current?
 9
      And to make recommendations to the department and
10
       to the government on, you know, possible steps
11
       forward to make sure that we're innovating in
12
       these areas. Can we go to the next slide?
13
                 And just to mention a few other items
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       that are going on across government.
                                             There was --
       the White House created a National AI Research
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16
       Task Force and they issued a request for
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       information recently that I would direct folks to
       reviewing and potentially responding to. And the
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19
      point of that request for information is really to
20
       identify ways to insured that everyone, all
       Americans, have access to the benefits of
21
22
       artificial intelligence research and innovation.
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So that ducktails into the
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 2
       administration's other efforts on equity and
 3
       making sure that, you know, we have an accessible
       IP system in the United States. But the other
 5
       issue that they touch on is the creation of this
       National AI Advisory Committee. And that is a
 7
       committee that is being created by the Department
 8
       of Commerce.
 9
                 And the implementation of that directive
10
       is being handled by NIST, which is another bureau
       in the Department of Commerce who work closely
11
12
       with on AI issues. So I also wanted to highlight
13
       this because they are looking for AI experts to
14
       join this government committee.
15
                 So if you have expertise in this area,
16
       especially if you have expertise in AI and IT, we
17
       would love to talk to you more about, you know,
18
       what might be involved in serving on the
       committee. Please feel free to reach out to me
19
20
       and I will direct you to the right folks. But we
       really want to make sure that we have, you know,
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an excellent AI advisory committee for the

- 1 government.
- 2 And then the last thing I wanted to
- 3 mention relates to IP5. For those of you who are
- 4 not familiar with the term IP5, it relates to the
- 5 five IP offices across the world. And we work
- 6 very closely with them in a variety of issues
- 7 including AI. They have a very active AI emerging
- 8 technologies committee.
- 9 And we recently are a last IP5 head of
- 10 offices meeting agreed on a roadmap. And
- 11 basically, that just means what are the areas of
- 12 study that all the five offices agree would be
- worthwhile for us to work together on? And those
- include statistics, classification, utilization of
- 15 AI and various legal issues.
- So while we're very active within the
- 17 USPTO in encouraging innovation on AI issues,
- 18 we're also very active across the government and
- 19 even on the international stage. So that's really
- 20 the update that we wanted to give today and I'm
- 21 happy to answer any questions or else I'll turn it
- 22 back to Jeremiah to hear from Andy Toole.

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1 MS. MAR-SPINOLA: So this is Julie. I
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- 2 have a question.
- 3 MS. STEWART: Sure.
- 4 MS. MAR-SPINOLA: I'm not sure you can
- 5 answer it, but let me just advance it in any
- 6 event. I don't remember the particulars or even
- 7 the country, but recently it was -- I read that
- 8 one of the offices has granted an AI patent.
- 9 And so, my question is if -- let's say,
- 10 the other countries have agreed to grant AI
- 11 patents and/or the U.S. -- maybe trailing on that.
- 12 How does the issue of them seeking foreign
- 13 equivalent through the U.S. -- how will that be
- 14 treated?
- MS. STEWART: So I think what you're
- 16 referring to, Julie, you're absolutely right. Our
- 17 decisions in Australia and South Africa, I
- 18 believe, to grant --
- MS. MAR-SPINOLA: Yes.
- 20 MS. STEWART: To permit an artificial
- 21 intelligent machine to file for our patent
- 22 applications in those countries? But with every

- 1 country has their own systems so they can do it a
- 2 little bit differently than we do. They may have
- 3 different applicable laws and regulations. But I
- 4 understand that those decisions may be appealed.
- 5 So they're not filing in those countries.
- And we also have litigation already
- 7 issued in the U.S. But it's been a decision in
- 8 the U.S. and U.K. and other countries that so far
- 9 our laws do not permit artificial intelligence
- 10 machine to be applicants. With that said, we want
- 11 to make it very clear that if you are an inventor
- 12 and you're using artificial intelligence or
- machine learning to conceive of your inventions,
- they're eligible for examination and filing with
- 15 our office.
- So we don't want anyone to get the wrong
- impression that just because you're using these
- tools that you should not be filing for patent
- 19 applications. And we're seeing tremendous growth
- in this area, but we do know that, you know, folks
- 21 are trying to, you know, push the boundaries on
- 22 policy. Or maybe even advocate for changes in the

- 1 law with respect to what kind of inventorship is
- 2 permitted.
- 3 MS. MAR-SPINOLA: Great. Thank you.
- 4 Jeremiah?
- 5 MR. CHAN: Great. Thanks so much, Coke.
- 6 That was great overview.
- 7 Excited to move onto Andy Toole to talk
- 8 about some recently published AI found datasets.
- 9 I know I've got lots of colleagues and friends who
- 10 do research in data science. In the patent area,
- 11 we're very excited about this so, Andy, take it
- 12 away.
- MR. TOOLE: Great. Well, thank you very
- 14 much, Jeremiah. And good afternoon everyone.
- It is really a pleasure for me to be
- able to highlight these two resources that USPTO
- 17 has released at the Office of Chief Economist has
- 18 been deeply involved with. Next slide please.
- I don't think it's any secret to anyone
- on this meeting or in this meeting that AI is a
- 21 very important national policy priority. It's
- 22 also important for the private sector and the

- 1 university sector. But the most recent wave of AI
- 2 particularly AI related to machine learning and
- 3 vision and other areas, subareas, like that.
- 4 There's not a lot of information yet that built up
- 5 about the different policies that we should follow
- and how the trends are actually going to play out
- 7 as we move forward in time.
- 8 So what we really need are new resources
- 9 to help us understand that. And I want to
- 10 highlight two resources very briefly this
- 11 afternoon. One is our inventing AI report, which
- was actually released in October of 2020. And
- 13 that report and in the next slide, I'll talk about
- that in a little bit more detail. But that report
- really does provide a broad overview of what's
- 16 happening in this AI space. And we've seen two
- 17 patent documents.
- 18 And the second thing I would like to
- 19 highlight in the next few minutes is the release
- of a new public dataset. A very important new
- 21 source, I believe, that's going to allow us to
- 22 really create metrics, track metrics and use data

- 1 to understand AI policy better. And that is a new
- 2 dataset called the artificial intelligence patent
- 3 dataset. And in that dataset, we include all of
- 4 the patents that have some component of artificial
- 5 intelligence technology in them out of 13.2
- 6 million total patent documents that were searched.
- 7 So next slide, please. I'll be talking about that
- 8 in just a moment.
- 9 First, let me just spend one minute on
- 10 the report. Now, the report itself is based on
- 11 the same dataset that we released. And what we
- 12 did is we built a machine learning model. So we
- used AI to identify AI, if you will. And what we
- lay out in this report is very impressive growth
- in patent applications and the diffusion of AI
- 16 across different inventors, different organization
- types and even geography within the United States.
- 18 So for instance, a second bullet point
- 19 points out here that in the 16 years from 2002 to
- 20 2018, the annual AI patent applications increased
- 21 by more than 100 percent rising from 30,000 to
- 22 more than 60,000 annually. And now, they make up

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1 about 16 percent of our total applications
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- 2 received. This is data as of 2018.
- 3 And the patents also -- what's also very
- 4 interesting to me, and again this is included in
- 5 the report, is that AI is not just a single
- 6 technology, it's actually spreading in a
- 7 ubiquitous way across a variety of technology
- 8 classes. So by 2018, 42 percent of the CPC
- 9 technology classes had at least one document with
- 10 some AI technology in there. Next slide, please.
- 11 So we took the dataset that we used to
- 12 create that report and we added onto that dataset
- 13 two additional years of information. So we added
- 14 2019 and 2020. We also created a companion
- document called the working paper that describes
- 16 -- and some people might say excruciating detail
- 17 -- the methodology that we undertook and the ways
- in which we tested our findings.
- 19 So when we built the machine learning
- 20 model, we let it loose, so to speak, on 13 point
- 21 million patent documents. Those are granted
- 22 patents and public pre-grant publications. And

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1 when it -- in identifying an incredible proportion
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- of patents that actually have AI in them.
- Now, did we do it right? Well, that's a
- 4 big question. So what we did, and this is an
- 5 aspect of this dataset and of the report prior,
- 6 that nobody else has actually. We were able to go
- 7 to the experts within the AI Art Unit of the USPTO
- 8 and have them review manually some of our findings
- 9 and our predictions. So we had a random sample
- 10 that was reviewed by experts in the area. And
- when we did that to test the, you know, the kind
- of fidelity of our work and the accuracy of our
- work, we found that actually it beats most of the
- 14 benchmarks out there in terms of what's been done
- at other offices around the world, and even
- 16 academic researchers. So far, we're really happy
- 17 with that.
- 18 So both the dataset and the report are
- 19 available on the website. Since we released the
- 20 dataset in June, late, late June -- June 25th
- 21 actually of this year. There have been over 2,200
- 22 page views, over 375 downloads of the dataset and

- 1 again a similar number of downloads for the
- 2 working paper. So people are very interested and
- 3 I think this resource is going to do very well for
- 4 all of us.
- 5 The only thing I would like to add here
- 6 as a final comment is that this was, as Jeremiah
- 7 said, this was a great collaborative effort across
- business units at the PTO including the patent's
- 9 organization, the CIO group, the OPIA group. And
- 10 I'm just -- I'm very impressed with what everybody
- 11 has contributed and we should all feel proud of
- what we've accomplished here. Next slide, please.
- So with that I'll end. And I will
- 14 certainly take questions if anyone has any. Thank
- 15 you.
- MR. CHAN: Thank you, Andy. I think
- it's a fantastic resource so I'm glad that, you
- 18 know, people are hopefully are aware of it. I
- 19 know many are already.
- To your point about the difficulty in
- 21 doing it. I think one of the great things about
- the dataset release is that there was also a lot

- of transparency to provide it.
- 2 So the second dataset, data file
- 3 actually, contains the patent documents that were
- 4 used to train the machine learning models. And
- 5 so, for those of you who actually tinker with the
- 6 models and you're curious about how it was
- 7 trained. Andy's team has also provided that
- 8 information as well. So please take a look at it
- 9 and use it. It's a great resource. And with that
- any questions for Andy or Coke?
- 11 MR. CALTRIDER: Jeremiah, I have a
- 12 question. Fantastic presentation, Andy. It's
- 13 really informative report. And I'm curious to
- 14 know whether or not the datasets include the
- 15 application with AI and kind of on ITR units? Or
- if it only -- so if you -- if AI is being applied
- 17 to discover some synthetic rubber for example. Is
- that getting captured in this if it's part of a
- 19 disclosure? Or does it sort out as looking for
- things that is either claimed or somehow didn't
- 21 realize that AI is of the invention?
- MR. TOOLE: Well, that's a great

- 1 question. Thank you. Thank you for asking that.
- 2 We do include a text analysis of the abstract of
- 3 the patent and of the claims.
- 4 So really the claims are a very
- 5 important part of how we identify the different
- 6 components of AI. So there are different -- there
- 7 are eight different categories of artificial
- 8 intelligence that we identify including machine
- 9 learning, diction, speech, AI hardware and several
- 10 others.
- So the answer to your question is yes.
- 12 They are included. In fact, what was very
- interesting to find was that these different AI
- 14 components when we search for them using the
- machine learning model, they appeared in
- technologies that we didn't really think were
- going to have AI. Most of those were just areas
- 18 that you wouldn't think of, right?
- 19 So AI is in databases for sure. AI is
- in other areas. And so those -- it's concentrated
- in these areas you would expect, but it does occur
- in these more obscure, let's say, technology

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1 areas. And that's one of the great advantages of
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- 2 using machine learning approach actually. Is to
- 3 be able to find it in these very difficult areas
- 4 to find.
- 5 That's the advantage over the query
- 6 approach which is the traditional approach in
- 7 which, you know, you find technologies based on
- 8 key words and patent classifications. But so the
- 9 answer is yes.
- 10 MR. CHAN: Great. Thanks, Andy and
- 11 thanks Steve for the question. Looking at the
- 12 time. We've got about a little over 15 minutes
- 13 left. So why don't we continue to move on and if
- 14 we have time at the end, we can kind of have
- another opportunity for questions but thank you,
- 16 Andy, and Coke.
- 17 All right. Turning to IT initiatives
- where we will focus on cyber security, resiliency,
- 19 moving to the cloud and some new updates with
- 20 respect to DOCX. I will turn it over to Jamie
- 21 Holcombe and Don. Jamie, take it away.
- MR. HOLCOMBE: Great. Thanks a lot,

- 1 Jeremiah. And go, go, go. First up, cyber
- 2 security. Second, it's all about resiliency and
- 3 then we'll talk about moving to the cloud. Don
- 4 Watson, take it away.
- 5 MR. WATSON: Good afternoon, everyone.
- 6 We realize we operate in a heightened cyber threat
- 7 environment.
- 8 Many of us have seen in the news about
- 9 the Colonial Pipeline attack, the Nefilim attack
- 10 and even on the Fourth of July weekend, the CASEA
- 11 (phonetic) tool which is a lone access tool being
- compromised effecting 200 businesses across 17
- 13 countries.
- So we've been on a journey of continuous
- 15 attacks when it comes to cyber security. So the
- last quarter, you know, we developed a
- 17 self-service security vulnerability dashboard. It
- 18 allows product owners to timely see their
- vulnerabilities and to remediate them as quickly
- 20 possible.
- We're also encouraging and getting our
- 22 product owners to transition their products off of

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1 end support operating system platform, the older
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- 2 OSs to reduce vulnerabilities.
- 3 One of the primary attack vectors
- 4 nowadays from attackers is through fishing emails.
- 5 So sometimes, you know, the technology we have in
- 6 place lets the emails slip through. So we have
- 7 these warning banners. Our incoming external
- 8 emails to help prevent fishing attacks to inform
- 9 the user. Hey, exercise caution.
- 10 And the last, we focused on assessing
- and reducing risk for our publicly assessment
- 12 systems. That's an ongoing thing. We're always
- assessing the penetration testing of our publicly
- 14 assessable systems who have the greater exposure.
- In the next quarter, focused on the
- deployment of technologies secure our end user
- 17 systems. Traditional antivirus is not enough
- 18 nowadays so we're deploying some new technologies
- 19 that use machine-based learning and other type of
- 20 capabilities to ensure we can improve our
- 21 monitoring and instant response capabilities.
- 22 We also taking a role -- emphasizing a

- 1 role-based approach to help improve information
- 2 system level of security. And lastly, the
- 3 zero-trust approach, and that approach is the
- 4 default. No one person is trusted from inside or
- 5 outside of a network. Verification is
- 6 continuously required to get an access to
- 7 resources on that network. And systems are
- 8 segmented and there's authentication ongoing to
- 9 make sure the right people have the right access
- 10 for the right resources and nothing further than
- 11 that.
- 12 That also helps with us ensuring that
- someone can't get into our networks so our cloud
- environments and move across and just create
- 15 havoc. And that's it now briefly. And I'll take
- 16 any questions.
- 17 MR. CHAN: Okay. Thank you, Don. It
- looks like we have a question from Barney Cassidy.
- MR. WATSON: Sure.
- MR. CASSIDY: Well, hi. Just sort of a
- 21 dumb question. Can you give us a sense in order
- of magnitude? How many attacks on the PTO system

- do you experience in a year? Is it, you know,
- 2 10,000? Is it 100,000? What's the level of
- 3 attacks that are detected?
- 4 MR. WATSON: Thank you for the question,
- 5 Barney. Yes, it's actually hundreds of thousands.
- 6 And I'm talking about attacks that we are seeing
- 7 at our perimeter level, but we have our firewalls
- 8 and our intrusion prevention systems.
- 9 While there is someone trying to deliver
- 10 a malware into our environment or if it's someone
- 11 trying to create a denial of service by flogging
- 12 us with packets of, you know, IT packets and all
- that. We see hundreds of thousands and what's
- 14 great is we have a very robust firewall and tree
- prevention system in place, but we're stopping
- 16 those things. And so, I'm pretty confident in our
- 17 capabilities.
- 18 MR. CASSIDY: Okay. That was my follow
- 19 up would be, you know, do you have all the
- 20 resources you need because I think from the user
- 21 perspective, the confidentiality of unpublished
- 22 patent applications is very important to

- businesses and inventors.
- 2 MR. WATSON: Absolutely yes. And we do.
- 3 We're on a journey to, again, I think the concept
- 4 of zero trust here is, you know, there's an
- 5 insider threat where someone does make it pass our
- 6 primary defense and we have that extra layer a
- 7 zero- trust model. It's an architectural model.
- 8 It can be based on either the way segment thing in
- 9 your network or the way you maybe use software
- 10 defined type software to do that. But we are
- doing that to ensure that if it does occur that
- 12 the impact would be minimal.
- So my confidence in our roadmap is very
- 14 high both from the inside threat and monitoring
- 15 perspective and also from the zero-trust approach
- 16 that we're taking.
- 17 MR. CASSIDY: Thank you.
- 18 MR. CHAN: Thank you for the questions,
- 19 Barney. Both really great. I do think, you know,
- 20 with the headlines, many of us do suspect that the
- 21 attacks are pretty bad, but we really don't know.
- 22 And so, understanding the magnitude, I think is

- very important.
- 2 I know for me having time with Don and
- Jamie to understand the proactive measures we're
- 4 taking are giving me lots of relief. And
- 5 hopefully, the public will now understand all the
- 6 efforts and focus that we have on security so.
- 7 Why don't we move on for now and I'll hand it over
- 8 back to Jamie? But thank you, Don.
- 9 MR. HOLCOMBE: Okay. Next up, we're
- 10 going to talk about our resiliency in the cloud.
- 11 MR. SIMMS: All right. Thanks, Jamie.
- 12 Hi, everybody. I'm Bob Simms. Director for
- 13 Infrastructure Engineeringin and Operations and
- I'm going to give you an overview of how we're
- doing on our data center migration and our cloud
- journey.
- 17 So as part of our data center migration
- 18 efforts, we've completed our new plans and are
- 19 actively -- we stacking Seed equipment in our new
- 20 Manassas Data Center. Doing so gives us back
- 21 those critical infrastructure services ahead of
- 22 moving any equipment to the Manassas Data Center,

- 1 which decreases the amount of time that it will
- 2 take to migrate.
- 3 The good news is those efforts are
- 4 paying off. Our Boyers Data Center migration is
- 5 well underway and I will say, it's ahead of
- 6 schedule. So, the team is working very hard to
- 7 get those services up and running within the
- 8 Manassas Data Center.
- 9 So, at the same time, we're also
- 10 preparing for the Alexandria Data Center migration
- 11 to Manassas. And that is also looking good and
- things are again ahead of schedule. So I'm happy
- 13 to report that. So on the cloud front, our comp
- journey, we completed seven product migrations to
- the cloud as of this month. And we've increased
- our cloud migration adoption rate.
- 17 We've developed an intake process where
- 18 we assess the feasibility of moving a product to
- 19 the cloud. We look at the things such as
- interdependencies, plan system requirements, the
- 21 size of the product, the data that's being moved
- 22 and a number of other factors to make a

- determination on whether that product is going to
- 2 be fit for the cloud or not.
- In the coming quarters, we've got six
- 4 products that we're going to be moving through our
- 5 cloud pipeline. So those are being assessed and
- 6 underway. And then we also take the opportunity
- 7 as we're going through these cloud migrations to,
- 8 you know, look at the current architecture. You
- 9 know, the architecture of the system that's on
- 10 Prim may not be exactly what we would want it to
- 11 be in the cloud. So we look at different ways to,
- 12 you know, increase the resilience. And of course,
- anything we can do to make it more cost effective.
- 14 Next slide, please.
- So this slide gets to some of the meat
- of what Don had briefed just a few minutes ago. We
- set a critical path to remove end of support
- 18 platforms. This is a direction that we've given
- 19 to our product line leads and managers through an
- 20 email on the 22nd of June to remove all
- 21 Window-based systems that have reach their end of
- 22 support date.

- 1 Our lead product owners are working
- 2 collectively within their product team to make
- 3 sure that that happens. They are prioritizing
- 4 that work. They're planning that work and the
- 5 goal is to have all those systems removed from the
- 6 network by December 31st of this year.
- 7 So much progress is being made and got
- 8 some systems off the wire and then we've got plans
- 9 established for the other systems to make sure
- 10 that they're completed by the 31st of December.
- And I think that's my final slide. And happy to
- take questions if there are any. Otherwise, I'll
- 13 kick it over to whoever is next.
- 14 MR. HOLCOMBE: I think it's Matt Seidel
- is next. He will be up on AHAS.
- MR. SEIDEL: Actually, I'm going to jump
- in. I think DOCX is up next. Sorry to jump in.
- 18 AI is coming next. Just a spoiler.
- 19 So not a lot to update. Again, we had
- 20 the FR notice recently that went out. Just to
- 21 reminder the non-DOCX excerpt charge goes into
- 22 effect January of next year. But we did change

- 1 the authoritative document to DOCX. That federal
- 2 register notice went out in early June.
- 3 We continue to work with our
- 4 stakeholders to assist with the shift of DOCX
- filing. Many, many training sessions that we've
- 6 held in the past, and we will continue to have
- 7 twice per week, were over 10,000. Just an amazing
- 8 amount of effort to try and make this transition.
- 9 I think last time at the PPACK meeting
- 10 we shared the training mode to help familiarize
- folks with the ins and outs. Just a reminder,
- 12 multiple sections can be filed as one document in
- 13 patent center. Recently, we included drawings to
- 14 be included under the DOCX filing. And then
- 15 again, the real time content validations are only
- 16 available with the DOCX.
- 17 And again, that's huge in terms of
- trying to minimize some of those things that would
- 19 result in incomplete applications, missing parts
- and so on.
- 21 Really the only other two updates that I
- 22 have just in the interest of time. We're very

- 1 pleased. We offer a video on our patent center
- 2 homepage now. It's a three-minute video to
- 3 address the DOCX filing and retrieval aspects. So
- 4 if you haven't seen it, we can certainly provide
- 5 it in the link. Our patent center homepage.
- 6 It's just a quick overview of the filing
- 7 again to raise awareness. And then our CIO, Jamie
- 8 Holcombe and I, are planning on some listening
- 9 sessions probably in the early Fall as a continued
- 10 part of our outreach efforts. So with that I will
- 11 pass it over to Matt Such at long last to talk
- 12 about some of our AI initiatives.
- 13 MR. CHAN: One quick comment and thank
- 14 you, Rick, I appreciate that. But one quick
- 15 comment before we turn it over to Matt is that I
- 16 encourage the public to take advantage of Rick's
- 17 invitation for feedback.
- 18 At the last quarterly meeting, we got a
- 19 bunch of follow up questions from the public on
- 20 DOCX. Rick and team answered those promptly in
- 21 addressing the questions there. They've also been
- 22 collecting feedback and have been very responsive.

- 1 I've been very impressed.
- 2 And so, be listening towards that Rick
- 3 and Jamie are doing fine tuning for those. If
- 4 you're having any issues with DOCX and hopefully,
- 5 it will continue to get better and better over
- 6 time. So thank you for that and, Matt, you are
- 7 up.
- 8 MR. SUCH: Thanks, Jeremiah. So if we
- 9 can go to the next slide.
- 10 So what we have here is a three-month
- 11 look back and look forward on our AI tools efforts
- for patents around using AI for search and
- 13 autoclassification.
- So over the last couple of months, we've
- been working to build out a feature that we are
- 16 calling More Like This to make that available to
- our full examining corps. We have been spending a
- lot of time as we've discussed in previous
- 19 meetings over working on a variety of different AI
- 20 base approaches that can be useful for examiners
- 21 during search.
- 22 And those have been in our pro-type

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1 phase and we're now reaching a point where we are
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- 2 promoting things out of the pro-type that we've
- 3 identified are bringing value and getting those
- 4 prepared for release to the full examining corps.
- 5 And so, over the next couple of months,
- 6 we're doing a lot of planning to lay the
- 7 foundation to be able to release the first AI
- 8 capability to the full examining corps.
- 9 Along with that we will be continuing to
- 10 work on additional new features within our
- 11 prototype and continuing to identify additional
- 12 capabilities through that prototyping process that
- 13 also demonstrate value and kind of racking and
- 14 stacking those for potential future release down
- 15 the road.
- 16 Turning to autoclassification. Just as
- 17 a reminder, we have kind of two different use
- 18 cases here. One is for identification of claim
- 19 subject matters, so-called C-stars. And as a
- 20 reminder as we discussed last time, we did
- 21 implement a portion of our patent filings back in
- December. We continue to monitor the quality of

- 1 the C-stars that the machine is signing. And as
- 2 we reported last quarter, we continue to see no
- 3 statistical difference so that's very, very
- 4 positive.
- 5 Looking forward for the assignment of
- 6 the -- or the C-stars and assigning claim
- 7 indicators, we're going to be wrapping up an
- 8 assessment over the coming months to determine the
- 9 readiness of the system to expand across a wider
- 10 subset of applications and have a wider
- implementation.
- 12 Turning to the full classification
- 13 program. This is an effort by which we are
- looking to do classification on patent documents
- using the cooperative patent classification
- 16 system. And we have recently made some updates to
- the models that allow us to be able to identify
- 18 suggested symbols to place on those documents with
- 19 the hopes that those are in alignment with our
- 20 expectations of what we would normally see on
- 21 patent documents in terms of the numbers of
- 22 symbols and which symbols.

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1 And so, over the course of the next few
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- 2 months, we're going to be focusing on assessing
- 3 that output from these updated models and
- 4 determining the readiness of the system to do some
- 5 piloting in a live environment. So I can take any
- 6 questions now. Thank you.
- 7 MR. BROWN: Jeremiah, I have a question
- 8 if you have a second.
- 9 MR. CHAN: Sure.
- 10 MR. BROWN: So, Matt, I just have a
- 11 follow up from before. I had asked if you had
- 12 plans of -- or you were going to discuss allowing
- this to be used by inventors in the public sector
- in the future? I think it would be, you know, a
- great opportunity to sort of, you know, close that
- gap between, you know, original searches and then
- what happens even as far as post-grant reviews.
- 18 Has there been any discussion on that?
- 19 MR. SUCH: We do discuss that. And that
- is something that I do recall we've talked about
- 21 in the past.
- We are continuing to evaluate that and

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1 understand both the technical -- kind of technical
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- 2 delivery mechanism that would need to be in place
- 3 in order to be able to provide that. But also,
- 4 make sure that we understand that the particular
- 5 AI capabilities are going to, you know, be of
- 6 value, right, to our stakeholders.
- 7 And so, one of the things that we're
- 8 looking forward to when we release the capability
- 9 to the examining corps is getting a wider set of
- 10 feedback from our examiners across all technology
- 11 areas, you know, to really understand at a deeper
- 12 level the maturity of this particular technology.
- 13 And as we learn how that maturity is
- 14 playing out at that wide scale that's really going
- 15 to be informative to help to go into that decision
- 16 making.
- 17 MR. BROWN: Yeah. Of course, it's going
- 18 to evolve. I mean, obviously there's going to be
- 19 future generations of that evolution. I just I'm
- 20 personally excited about this and, you know, as
- 21 I'm doing a lot of patent searching myself, I'd be
- 22 more than happy to, you know, get involved in some

- of this with you just as a feedback possibility.
- 2 And you know, the sooner you discover,
- 3 you know, potential road bumps, the sooner you can
- 4 be open. And I really think this would be a
- 5 valuable tool for, you know, expanding innovation,
- 6 right? And getting -- making it easier for people
- 7 to understand where that existing prior knowledge
- 8 is.
- 9 MR. SUCH: Yeah, certainly. I do
- 10 appreciate those comments. I think that, you
- 11 know, that is a sentiment that we do hear. And,
- 12 you know, we are absolutely, you know, looking at
- 13 this question and, you know, trying to come to,
- 14 you know, the best decision possible in order to
- better serve our stakeholders. So I very much
- 16 appreciate it from that perspective.
- 17 MR. BROWN: Looking forward to the
- 18 opportunity.
- 19 MR. CHAN: Okay. Thanks for the
- question, Dan. And thanks for the answer, Matt.
- 21 I see we do have a question on the chat although
- 22 we are a few minutes over time. So I'm guessing

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1 at this junction, we should probably move forward
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- 2 and perhaps you can address it offline.
- 3 MS. MAR-SPINOLA: Thanks, Jeremiah. I
- 4 think we need to keep on time. I will take this
- 5 opportunity just to let folks know that the PPAC
- 6 with the office is considering maybe a new format
- 7 for our public meetings going forward.
- 8 We may test it out as a pilot for our
- 9 next meeting. More specifically, we're looking at
- 10 maybe having maybe breaking up that meeting rather
- 11 than having one long meeting. We would break it
- 12 up into maybe a lunch session similar to what the
- patent office has been doing with their outreach.
- If we are successful in doing that. I
- 15 think a benefit to that will be that each subject
- 16 matter will be more thoroughly covered and the
- public will have more opportunity for one on one
- or more direct communications and questions and
- 19 answers on that. So I apologize to Jennifer who
- submitted the question, but we can definitely
- 21 respond to it offline.
- So if we can move on now to our

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outreach. Let me turn it over to Tracy Durkin.
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- 2 MS. DURKIN: All right. Thank you,
- 3 Julie. So now we're going to leave the sort of
- 4 domestic front and take a look at what's been
- 5 happening internationally with the office.
- 6 Despite the fact that everyone is still
- 7 primarily working from home. And normally, these
- 8 international activities take place with
- 9 face-to-face meetings, there's still a lot of
- 10 progress that the office has been able to make
- with their counterpart offices and really actually
- 12 have been able to move a lot of things along.
- 13 And so, I think our first presentation
- 14 today is coming from Valencia Martin Wallace,
- 15 Deputy Commissioner. And she's going to talk a
- little bit about the IP5 test meeting report out.
- 17 And if you would also, Valencia, when you get
- 18 started. I noticed there was a question in the
- 19 chat a while back about, what are the five IG
- 20 offices? And so, this might be a great chance for
- 21 you to inform everyone about that as well. So
- thank you.

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1 MS. WALLACE: Thank you, Tracy. And
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- 2 good afternoon to everyone. And I absolutely as
- 3 current to my slide. So we'll discuss the current
- 4 offices.
- 5 So this is as Tracy said, a report out
- of this year's IP5 Heads meeting. If you could
- 7 move to the next slide. Thank you.
- 8 So just to start out. The Heads meeting
- 9 is actually a series of three meetings that were
- 10 the week of June 20th. The first meeting was the
- June 21st meeting which was the IP deputy head,
- which really was just to make sure that they
- finalize and approved the agenda moving forward
- for the IP5 Heads meeting.
- 15 All three meetings that occurred that
- 16 week were posted by the Japan patent office. So
- 17 the five IP offices consist of the U.S. PTO. ETO
- 18 which is the European patent office. JPO, the
- Japan patent office. KIPO, the Korean IP office.
- 20 CNIPA, which is the China National Intellectual
- 21 Property Administration. And the WIPO as a quest
- 22 that comes in is the World Intellectual Property

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1 Office, which they are not part of the IP5, but
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- 2 they are there and they observe our meetings.
- 3 So the second meeting, which is the
- 4 slide you see here is our IP5 office and IP5
- 5 industry meeting. So the first meeting is with
- 6 the deputy to solidify agendas. The second
- 7 meeting is with the heads of office along with
- 8 representatives of industry from all five
- 9 countries.
- 10 So you see on the left board, the
- industry delegates where AIPLA as well as IPO for
- the United States, BusinessEurope. So these are
- all professional IP professional organizations
- 14 that work with the IP5 throughout the year and we
- have a meeting with them during the head weeks.
- So it's BusinessEurope that works with
- 17 the European patent office. JIPA which is Japan's
- intellectual property professional organization.
- 19 KINPA which is the Korean intellectual property
- 20 professional organization and PPAC which is a
- 21 professional IP patent's professional organization
- 22 working through China. And the next slide,

- 1 please.
- 2 So just very quickly on the IP5 industry
- 3 meeting. There were some meeting topics which the
- 4 order of business is really the IP5 Heads discuss
- 5 the topics that were worked on throughout the year
- 6 by the IP5 with industry. And it really is just
- 7 where they're just finalizing and making sure that
- 8 we are in alignment with our stakeholders.
- 9 So some of the updates from our heads to
- 10 the industry were on the new organization of
- 11 patent practices and projects that we have
- 12 undertaken in the work group of the patent
- harmonization expert's panel. So that's one of
- the working groups IP5 that you need to discuss
- issues and new initiatives.
- They also discussed the IP5 net AI.
- 17 That's the new energy technology and artificial
- 18 intelligence roadmap that we heard about from Coke
- 19 a little earlier. They also discussed cooperation
- in post-pandemic era. Are we properly satisfying
- 21 our users and accommodating our users in this new
- virtual world that we've been in?

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And then we also talked about some of
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 2
       the 2022 high-level meetings that will occur. So
       could we move onto the next slide?
 3
                 So the June 23rd IP5 Heads of Office
 5
       occurred. And leading the USPTO delegation was
       Drew Hershfeld, Mary Critharis, the Chief Policy
 7
       Officer and Director of International Affairs was
 8
       also there and I also represented along with
 9
       several members of each of our staff. So it was
10
       an all work environment. This was our second
11
      Heads meeting, all virtual, and I participated
12
      last year, which went very well, but this year was
13
      even better. I mean it was virtually seen this
14
      year and went very well. So once again there were
       delegates from the five IP offices as well as
15
16
      WIPO, okay. Next slide please?
17
                 So the meeting focus for this year was
       as I mentioned before. Changing needs of users in
18
19
       this post-pandemic. How do we get to the new
      normal? And how do we harmonize as much as
20
      possible within the IP5 offices and beyond? And
21
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further cooperation on initiatives for our users?

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1
                 So as part of the Heads meeting is an
 2
       endorsement of the programs and initiatives that
 3
       our staff in all five offices have worked on
       throughout the year. One of those endorsements
 5
       from the Heads and all these were unanimous
       endorsements from the Heads was the IP5 net AI
       roadmap that Coke mentioned. So that's just
 7
 8
       setting a roadmap of the topics that Coke
 9
       mentioned earlier, which were statistics,
10
       classification, IT and legal matters which both of
       AI and net.
11
12
                 Next was endorsed were two projects that
13
       the organization expert panel will be moving
14
       forward on. And I mentioned these last year as
       well. Global assignment, which is being led by
15
       USPTO and KIPO. And Allowable Features in
16
17
       Drawings which is being led by the JPO.
18
                 So this year, we have a plan moving
19
       forward for how these topics will be addressed and
20
       moving forward on as opposed to last year as we
       worked with industry, we really tried to narrow
21
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down the projects that the IP5 would be working

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1 with to make sure that we can accomplish them.
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- 2 And we further talked about continued
- 3 interaction among the IP5 offices. And then
- 4 lastly, we spoke of the 2022 high-level meetings.
- 5 So specifically there, we talked about the next
- 6 meeting, next year's meeting which at one point
- 7 EPO was considering. They are the host for next
- 8 year's meeting and they were considering bringing
- 9 the three major forms together, IP5, which I'm
- 10 talking about now. ID5 which is industrial design
- 11 focus. And GM5 which is trademark focus of the
- same as with ID5 with the five large offices.
- 13 We talked about that with industry as
- 14 well as through the Heads. We also discussed some
- of the themes for the Heads throughout this year
- leading up to next year's meeting. And those
- themes being addressing accessibility of the IP
- 18 system for users and specifically for startups and
- 19 S&Es.
- 20 Also, what we will be taking up is
- 21 exploring how IP as a whole can contribute to
- 22 solving socioeconomic issues. We'll also be

- discussing promoting greater visibility of IP in
- 2 general as well as advocating for a stronger
- 3 pro-IP agenda.
- 4 And then we also discussed a little bit
- of the fact that next year's meeting will be the
- 6 10th year anniversary of our meeting IP5 with
- 7 industry and how we will celebrate that monumental
- 8 event which has been of great importance and
- 9 support to the IP5. And if we can move onto the
- 10 next slide?
- 11 So the next steps. I just mentioned
- some of the next steps that we will be taking on
- 13 -- the IP5 will be taking on this year coming.
- 14 And I can also share with you that next IP5 Heads
- meeting as I mentioned will be hosted on EPO but
- 16 ultimately it was decided that next June 2022, it
- 17 will just be IP5. We will not be in combination
- 18 with the other organizations and it will be held
- in Munich, Germany. Can we move onto the next
- 20 slide?
- 21 So I guess if anyone has any questions,
- I can certainly take a couple or we can hear from

- 1 Nelson Yang first and take some after that.
- 2 MS. DURKIN: I just would make a comment
- 3 that I hope that you are all able to meet in
- 4 person next June.
- 5 MS. WALLACE: Yes, next year the EPO is
- 6 planning that it will be an in-person meeting.
- 7 The first one for several years, but I'm glad you
- 8 brought that up, Tracy, because one of the areas
- 9 that we're talking about with the offices is how
- do we have the appropriate combination of virtual
- 11 and in-person meetings?
- I mean we've all, you know, found it
- 13 very, very useful. It's been a great year of fine
- tuning how we cooperate with each other and meet
- with each other virtually. But there's still a
- strong need to meet in person and finding with
- 17 that right combination.
- 18 MS. DURKIN: Steve, do you have a
- 19 comment?
- 20 MR. CALTRIDER: Yes, I just have a
- 21 question on the global assignment. First, thank
- 22 you for a very interesting presentation. And

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there's a great deal of interest as you know on
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- 2 global assignment and I'm curious if the planning
- 3 on it so far as a timeline or target date under
- 4 which that might be put into place? That's the
- 5 first question.
- 6 The second question is related. That's
- 7 great to have one with the IP5, but is the intent
- 8 then to work with WIPO to get that more broadly
- 9 accepted beyond the IP5's as well?
- 10 MR. WALLACE: Those are great questions.
- 11 So we do have a very high level timeline, but it
- does not include a final implementation date. And
- as we meet, our work groups meet and we come to
- 14 further agreement with the other four offices. We
- will update you as we're getting closer to an
- implementation date.
- 17 And also, great question, Steve, about
- 18 working with WIPO. WIPO does coordinate with us.
- 19 They've been very interested in this. And this is
- 20 something global assignment as well as other
- initiatives that we're working with WIPO to make
- 22 sure that it is more widespread and it will be

- 1 something that all offices will be able to use.
- We're not quite there yet with the
- 3 global assignment, but that is, you know, our
- 4 shining star we're all travel toward.
- 5 MR. CALTRIDER: Thank you.
- 6 MS. DURKIN: Okay. Valencia, did you
- 7 want to turn it over to Nelson Yang?
- MS. WALLACE: Yes, absolutely. Thanks,
- 9 Tracy. So Nelson Yang, Senior Advisor over
- 10 Business Solutions. And I call him IT
- international extraordinaire. He's all things IT
- international that he does wonder with. And today
- he's going to talk to us about the IT5 statistics
- 14 report, the measures and give us a further
- understanding of it. So take it away, Nelson.
- MR. YANG: Sure thing. So thank you.
- 17 So thank you for the opportunity to be here today.
- 18 If we can go to the next slide?
- 19 I kind of wanted to first give a little
- 20 bit of background on the IP5 statistic report.
- 21 This is a report that the IP5 offices published
- 22 annually. And it provides various different

1 metrics on patent application filings and also

- 2 prosecution.
- 3 And one of the metrics that we provide
- 4 is application pendency both first action pendency
- 5 and final action pendency. And this is something
- 6 we've been getting some questions lately. So I
- 7 wanted to take the opportunity to kind of focus on
- 8 this particular area. Next slide.
- 9 So within the report, we actually have
- 10 the statement that kind of covers our basis so to
- 11 speak. We state that the pendency measurement is
- intended to provide insights into the workload at
- each of the offices. But while we also note that
- 14 while this may seem to be an indicator for the
- backlog in handling applications within the
- offices, it's not really particularly ideal
- because there maybe periods where the applications
- 18 are waiting action from applicants. And so, that
- 19 creates some delays there. And currently both the
- 20 first action and final action pendency reflect
- 21 this issue. Next slide.
- This is currently the format that we

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1 present the pendency metrics. However, what I
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- 2 have not included here is roughly the half page of
- 3 definitions that explain how the different offices
- 4 calculate their pendency metrics including
- 5 different starting points, different endpoints.
- 6 And so, understandable it has a potential to
- 7 create some confusion amongst readers who are only
- 8 looking at this table without looking the
- 9 corresponding definitions. Next slide.
- 10 And so, kind of part of what I want to
- do in these next couple of slides is to kind of
- 12 give some insights and details as to how each of
- 13 the offices are calculating their pendency. And
- with a particular focus on the first action
- 15 pendency.
- 16 Starting with the EPO. The way they
- 17 calculate their pendency is from the filing search
- 18 the report. And this search report doesn't really
- 19 have an equivalent at the other IP5 offices who
- 20 typical will use the first office action in this
- 21 pendency metric. If we go to the next slide.
- 22 At the JPO, they kind of measure

- 1 pendency through a different manner. Instead,
- 2 they focus on that request for examination as
- 3 their starting point and measure from the request
- 4 for examination to that notice of the first
- 5 action. And typically, it may take an applicant
- 6 up to three years to file that request for
- 7 examination so there is some lag time between the
- 8 filing and the request for examination. Next
- 9 slide.
- 10 KIPO uses a similar measurement where
- they're actually measuring from request from
- 12 examination to the notice of first action. There
- 13 are some slight differences in the workflow
- including the fact that the applicant typically
- 15 has up to five years to file that request for
- 16 examination at KIPO. But roughly that measurement
- is comparable where it is measuring from request
- 18 for examination to that notice of first action.
- 19 Next slide.
- 20 At the CNIPA, they also measure from
- 21 request for examination to notice of first action.
- However, there is an additional requirement where

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1 that application has to be first published before
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- 2 the application can begin examination. And that
- 3 publication typically occurs within 18 months of
- 4 the priority date. Next slide.
- 5 At the USPTO, which I'm sure most of you
- 6 are probably most familiar with. We typically
- 7 measuring filings -- measure pendencies from
- 8 (inaudible) to the examiner first action. And
- 9 this is because we don't really have a process
- 10 such as a request for examination or a search
- 11 report. And so, this is really our best way of
- 12 capturing that, that first action pendency. We
- 13 have begun looking recently at other ways where we
- can present this pendency metrics are ways where
- 15 we can provide more consistencies across offices
- or provide metrics that can better reflect offices
- of both the USPTO and IP5 offices.
- 18 But this is one of those ongoing
- 19 exercises where we still are in very much in
- 20 discussions with both our stakeholders and with
- 21 other IP5 offices to kind of find a way that we
- 22 can really move forward and really provide more

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1 transparency and clarity as well as like
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- 2 information that would be beneficial to our
- 3 applicants and to our stakeholders in general.
- 4 Next slide.
- 5 I believe that's the end of my
- 6 presentations, but if anyone has any questions,
- 7 I'd be happy to try to answer them.
- 8 MS. DURKIN: Nelson, I have one
- 9 question. If we go back to that prior slide.
- MR. YANG: Sure. Sure.
- MS. DURKIN: You mentioned that there
- 12 could be some delays on the part of the applicant
- during that blue bar. What types of things are
- you thinking about that would hold those?
- MR. YANG: So that's actually a really
- 16 good question. A lot of times, this could be
- perfecting the application contents where they may
- have an incomplete application that could delay
- 19 that completion of that complete application and
- 20 prevent the application from going further to that
- 21 examination phase.
- MS. DURKIN: So they're missing inventor

- 1 names or something?
- 2 MR. YANG: Yeah. Missing inventor names
- 3 or if they've forgot to provide a specification or
- 4 a complete specification those would prevent, you
- 5 know, prevent that application from going further.
- 6 MS. DURKIN: Yeah. Because it seems
- 7 like now that the office isn't requiring the
- 8 declaration until the end of the process that
- 9 would have sped up the beginning so that's
- 10 interesting.
- MR. YANG: Yeah.
- MS. DURKIN: And there are enough cases
- that are not ready that it skews the data?
- MR. YANG: I think this is something we
- really want to look more carefully at. I can't
- say for certain and I highly doubt there will be
- 17 sufficient number of cases that was skewed
- 18 directly. But we definitely want to get more
- 19 granular and look at the different aspects and
- figure out ways where we can really improve that,
- 21 the process.
- 22 And also, really have ways where we can

- 1 provide metrics that better reflect our goals here
- 2 at the USPTO and also at the IP5 level. And this
- 3 is something I think the traditional ways we've
- 4 been presenting it may not provide that insight
- 5 into.
- 6 MS. DURKIN: That makes sense. Any
- 7 questions? No. And I think you'll be turning it
- 8 over the Mary Critharis. Thanks.
- 9 Mary is the chief policy officer and
- 10 director for International Affairs and she's going
- 11 to update us on some of the things that have been
- 12 happening in her office.
- MS. CRITHARIS: Thanks, Tracy. I just
- want to make sure everybody can hear me?
- MS. DURKIN: Yes, we can.
- MS. CRITHARIS: Okay. Great. So next
- 17 slide please. So these are the topics that I'll
- 18 just discuss briefly. A little bit more of an
- 19 update on the IP5 perspective on the UN
- 20 Sustainable Development Goal, address the delay in
- 21 certification and legalization of patent documents
- 22 as well as the recent Congressional study. The

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1 impact of subject matter eligibility
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- 2 jurisprudence, innovation and investment and
- 3 summary of comments from Federal Register Notice
- 4 on section 171 particular the article of
- 5 manufacturer requirement as it pertains to
- 6 industrial design. Next slide please.
- 7 So building on Valencia's excellent
- 8 presentation on the review of the IP5 type of
- 9 office meeting. I just wanted to both go a bit on
- 10 one of the strategic topics. As Valencia
- 11 mentioned, one of the objectives for this
- 12 particular year was to identify major challenges
- and changes in prosecution due to the pandemic and
- 14 to propose solutions to address them.
- The IP5 industry group met in February
- of this year and some of their priorities included
- enhancing digitization in patent prosecution,
- 18 enhancing online Communication as well as
- 19 addressing Sustainable Development Goals. So if
- 20 we go to the next slide, we focus on what are
- 21 goals are with respect to these Sustainable
- Development Goals. And I know a lot of people

- 1 ask, well, what are these goals?
- 2 So on the right side, we have listed the
- 3 17 Sustainable Development Goals that are set
- forth by the UN. They run the gamut from
- 5 addressing, you know, hunger and poverty to
- 6 climate change, health issues as well as equality
- 7 and justice. Given the attention on IPR in the
- 8 global market place, the IP5 thought it was
- 9 important to identify ways that IP5, right,
- 10 contribute to solving and addressing these social
- issues. And also, for ways to enhance the IP
- 12 system that promotes the offices' contributions to
- 13 solving these global challenges. So onto the next
- 14 slide.
- 15 What we did in this recent meeting, the
- offices had an opportunity to share examples of
- 17 their contributions to these Sustainable
- 18 Development Goals. So the USPTO highlighted our
- 19 patent for humanity program and held that it
- 20 incentivizes innovation for humanitarian efforts.
- 21 We also highlighted our efforts, National Council
- 22 for Expanding American Innovation.

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Other offices highlighted, I thought,
 2
       some interesting projects that they were working
 3
       on. China focused on some of their efforts to
       help commercialize and brand agricultural products
 5
       for local farmers. KIPO talked about their
       tutorials for IP for children. EPO also talked
       about how they're reducing their environmental
 7
 8
       footprint using green technology. And JPO
 9
      highlighted their efforts in working with WIPO
10
      Green to advance IP systems with respect to
11
       addressing, you know, climate change. So these
12
       are just some examples of how the IP offices
13
       contributed to promoting these development goals.
14
      Next slide.
15
                 So from the next steps since was really
16
       kind of a new strategic priority. I think
17
      everybody really appreciates hearing everyone's
18
       experiences. And so, we're going to continue to
19
       compile and disseminate information on how the
       offices contribute to these social issues. And
20
      perhaps even maybe identify some best practices
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and opportunities where we cannot just engage

- 1 separately, but engage collaboratively to address
- 2 some of these issues.
- And obviously, we're going to continue
- 4 to explore ways to promote the IP system and how
- 5 its importance to these Sustainable Development
- 6 Goals. So that's really -- I just wanted -- but I
- 7 wanted to highlight this kind of new priority for
- 8 the IP5. Next slide please.
- 9 So now, I'm going to turn to a new topic
- 10 is delays in certification and legalization of
- 11 patent documents. First, I wanted to thank some
- of the PPAC members for bringing this issue to our
- 13 attention. We've heard from other stakeholders as
- well that there were some significant delays in
- processing certified and legalized patent
- documents for use in overseas applications and
- 17 filing abroad.
- So there's two components to this.
- 19 There's the certification process that the USPTO
- 20 are understanding as the void is that or
- 21 certifying copies of the originally filed
- 22 application and for assignments. The office is

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operating on a little bit over two-week period.
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- Obviously, we're looking to reduce that. We had
- 3 some delays due to COVID, but those time periods
- 4 seem to be trending downwards.
- 5 The other challenge is from legalized
- 6 documents from our State Department.
- 7 Unfortunately, we've had numerous conversations
- 8 with our State Department colleagues and they are
- 9 really backlogged due to COVID.
- This is not a situation that is unique
- 11 to IP across the business sector for all types of
- documents that need to be legalized and certified
- 13 by the State Department. Everything has been
- delayed. We do not have any more information as
- far as when this issue will be resolved by the
- 16 State Department, but we will continue to work
- 17 with them and obviously share any updates that we
- 18 have with you.
- But in order to mitigate some of these
- 20 problems, we are looking to explore flexibility
- 21 from our other IP offices. So the attorney of
- OPIA as well as the IP Attachés have been working

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1 together to reach out to the jurisdictions where
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- 2 we heard there was particular concerns. We noted
- 3 them on the presentation. They include Bolivia,
- 4 China, Egypt, Ethiopia, Panama, Saudi Arabia and
- 5 Thailand. And they are preliminary discussions.
- 6 Have highlighted where there's some possibility to
- 7 extend some of the deadlines that are in place due
- 8 to COVID.
- 9 I do want to report, we've just found
- 10 out yesterday, we do have an early success that
- 11 the Saudi IP authorities have agreed to some more
- 12 flexibility in claiming of receiving the certified
- documents. They will issue a commitment form and
- if applicants still have that form and indicate
- that they will be providing the certified or
- legalized document as soon as they can then it
- will extend that deadline until the applicant is
- 18 able to submit the document.
- They will be putting more information
- about that new process on their website and we
- 21 also exploring ways at the PTO to alert our
- 22 applications and our users on these, you know,

- 1 challenges and office and measures that they can
- 2 take advantage of moving forward. So we are
- 3 exploring that. Next slide please.
- 4 I also just wanted to point out that
- 5 another way to mitigate some of these issues with
- 6 respect to delays is to really utilize the WIPO
- 7 DAS. That's the document access system that
- 8 allows for electronic exchange of priority
- 9 documents. There are 30 offices participating in
- 10 WIPO DAS for patents and we have 19 offices for
- industrial design. We will encourage to other
- offices to participate in WIPO DAS and to kind of
- extend its coverage more broadly, but hopefully
- 14 those kinds of systems will also help alleviate
- 15 some of those problems.
- But finally, we'd like to take this
- 17 opportunity to also reach out to PPAC members and
- 18 also for our stakeholders as we continue to
- 19 address this issue. We wanted to make sure if
- 20 there are any other jurisdictions in which there
- 21 are delays in obtaining any kind of certification
- 22 and legalization to please bring them to our

- 1 attention.
- 2 The circumstances in which attestations
- 3 are being required perhaps is not just patent
- 4 applications. It's power of attorney documents
- 5 that maybe necessary for court filings and the
- 6 type of attestation documents that are being
- 7 required by other offices. We really would
- 8 appreciate any kind of information you have so
- 9 that we can kind of, you know, take the next steps
- 10 and like said engage some of our attorneys and our
- 11 attachés who are working on the region to help
- 12 mitigate some of these problems.
- And so, if we go to the next slide, we
- 14 have identified -- next slide please -- two
- opportunities or avenues for seeking out input
- 16 from our office. We have a USPTO policy inbox
- 17 that you can send information to.
- 18 And also, David Gerk who is our
- 19 Principal Counsel and Director for Patent Policy
- 20 in OPIA. He is coordinating all of these
- 21 activities. So please feel free to reach out to
- 22 him and we'll make this information more broadly

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1 available so that, again, stakeholders can reach
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- 2 out to us and share the information with us and
- 3 then we can, you know, make the necessary
- 4 arrangements and discussions with your foreign IP
- 5 offices.
- 6 So onto the next topic. We wanted to
- 7 discuss briefly with you, our Congressional study
- 8 on the impact of subject matter eligibility,
- 9 jurisprudence on innovation and investment. As
- 10 you've heard at the request of Senators Tillis,
- 11 Hirono, Cotton, and Coons, the USPTO published a
- 12 Federal Register Notice to analyze the impacts of
- 13 the current state of patent eligibility
- 14 jurisprudence.
- I think the particular response to the
- 16 American Axle case, the expansion of some of the
- federal circuit jurisprudence to not just computer
- 18 related inventions, not the diagnostics but now to
- 19 more broadly industrial applications have caught
- 20 their attention.
- They wanted us to focus on the impacts
- of the jurisprudence on innovation in particular

- 1 in critical technologies like artificial
- 2 intelligence and quantum computing, precision
- 3 medicine and diagnostic methods as well. So next
- 4 slide.
- 5 So the Federal Register Notice was
- 6 published on July 9th and there's a robust set of
- 7 questions that we ask for people to share their
- 8 observations and experiences. Examples of these
- 9 questions related to patent prosecution, strategic
- 10 decisions involving portfolio management,
- 11 litigation issues, impact on research and
- development, employment, marketing; investments;
- 13 production obviously and innovation and
- 14 competition. So we wanted to see not just how it
- impacts the filing practices but also more broadly
- 16 a company's business portfolio.
- 17 Again, key impact on technological
- 18 fields. Also, we asked for experiences on foreign
- jurisdictions as we heard that many stakeholders
- 20 have made claims that other jurisdictions are more
- 21 accommodating as respect to patent eligibility.
- 22 And also, address if there are any changes in its

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1 business practices. Maybe they're highlighting
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- 2 their research efforts to other areas to adjust
- 3 for the current state of patent eligibility
- 4 jurisprudence. The next slide please.
- 5 So in addition, we also went more
- 6 broadly. Not just the direct impact to the
- 7 business, but what are the impacts to the American
- 8 economy, the intellectual property system? What
- 9 are the key tenants of the Biden administration's
- 10 priorities to ensure that the American companies
- 11 can maintain their global leadership and they can
- 12 be competitive in the global market place?
- So we asked more broad questions to
- address the impact to the global economy. The
- 15 Federal Register Notice asks for comments by
- 16 September 7th and hopefully that will give us
- enough time then to publish the report, which is
- due to Congress in March of 2022. Next slide
- 19 please.
- 20 And here are -- and I'm not going to
- 21 spend too much time on -- but here's just a brief
- overview of a lot of the USPTO 101 actions. Back

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in 2016 and '17, we held roundtables on our
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- 2 particular guidance that we issued in 2015 as well
- 3 as we asked stakeholders for their views on the
- 4 impact of subject matter eligibility jurisprudence
- 5 on their practices. And we also asked them at
- 6 that time whether they thought any legislative
- 7 redress was necessary and what that legislative
- 8 action would look like?
- 9 We published that report in 2017. Since
- 10 then, we've issued a series of guidance and
- 11 guidelines. Most notably in January of 2019, we
- issued our PEG guidelines on subject matter
- 13 eligibility. Next in 2020, the Office of Chief
- 14 Economist published a report on adjusting to Alice
- 15 and some patent outcomes after the Alice decision.
- And since our guidelines, there was a more
- increase -- actually, I say decrease in patent
- subject matter eligibility rejections, but there
- 19 was also an increase in the consistency and
- 20 predictability among the technologies so that was
- 21 a good outcome.
- 22 Again, now in 2021, we've got this

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1 request from the Hill on a study on the impact of
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- 2 subject matter eligibility jurisprudence. And so,
- 3 again the report is to be finalized and sent back
- 4 to Congress by March of 2022.
- 5 So next, I'm going to turn to the final
- 6 topic for today. And this is the Federal Register
- 7 Notice on section 171. We published a Federal
- 8 Register Notice last year asking the public for
- 9 their input on the article of manufacture
- 10 requirement as it relates to new and emerging
- 11 technologies such as holograms, virtual and
- 12 augmented realities including graphical user
- interfaces. And especially focused on these types
- of designs that are not embodied on a physical
- 15 article of manufacturer.
- We noted that other jurisdictions have
- been changing their laws and their practices in
- order to accommodate these types of new designs.
- 19 We received 19 comments and these comments
- 20 represented different groups from academia to
- 21 universities as well as stakeholders and trade
- 22 associations. And we are currently preparing a

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draft summary report of the comments for
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- 2 publication and hopefully in the near future.
- 3 So I think that is all we have for you
- 4 today. I'm glad to take any question.
- 5 MS. DURKIN: Thank you, Mary. That was
- 6 a great summary of what's been going on over the
- 7 past few months. And I really want to commend the
- 8 office for what you were able to do particularly
- 9 on the legalization issue. That, you know, COVID
- 10 obviously created that and we couldn't have seen
- it coming, but, you know, some situations that
- we're aware of during PPAC and elsewhere and you
- 13 know as well.
- 14 There is, you know, a real potential for
- loss of rights and the ability for the office to
- step in and particularly the attachés and the
- 17 relationships that they have with the foreign
- 18 offices. I think was a real welcome activity this
- 19 last quarter so thank you for that.
- 20 Does anyone have any questions or
- 21 comments for Mary? Okay. Then we will get two
- 22 minutes back extra into the agenda and I will turn

- 1 it back over to you, Julie. Unless you want to
- 2 just keep going and turn it over to Susan and Dan.
- 3 MS. MAR-SPINOLA: Yes. So thank you,
- 4 Tracy. Thank you, ladies, for great presentations
- 5 and let's do take advantage of the time and turn
- 6 it over to Judge Susan Braden and Dan Brown,
- 7 cochairs in the legislative subcommittee. Dan and
- 8 Susan?
- 9 MR. BROWN: Well, we had agreed Susan
- 10 was going to introduce it, but I don't hear her.
- 11 She maybe muted. So I'll make it short and sweet.
- 12 I mean we'll turn it over and start with the
- 13 meeting. And I don't know if she had anything
- prepared to say so I don't want to just babble
- 15 here so.
- MS. MAR-SPINOLA: Susan? Okay. Maybe
- 17 there's some technical issues that can be resolved
- in the background. Dan, why don't you start?
- MR. BROWN: Okay. I'm just going to
- turn it over to the office and let them report
- out. It's been a very busy quarter from -- well,
- 22 I'm new to the PPAC. I think that, you know, a

- 1 lot of things have transpired so.
- MS. MAR-SPINOLA: Okay. So with that
- 3 for Tamara Foley.
- 4 MR. BROWN: Yes.
- 5 MS. FOLEY: Yes.
- 6 MS. MAR-SPINOLA: Hi, Tamara. Welcome.
- 7 MS. FOLEY: Thank you. I'm assuming
- 8 everyone can hear me?
- 9 MS. MAR-SPINOLA: Yes.
- 10 MS. FOLEY: Great. Thank you. Next
- 11 slide please. Great. So I'm going to start off
- 12 talking about some of the legislative activities
- 13 that have been happening recently. First, I'm
- qoing to start off with the Senate, U.S.
- 15 Innovation and Competition Act as I'm sure
- 16 everyone has been hearing about. That passed the
- 17 Senate on May 28th by a vote of 68-32.
- 18 It's a fairly large bill. The bill
- included the number of sections that touch on IP
- 20 including one that directly effects the USPTO. In
- section 6204 of the bill, this includes the IDEA
- 22 Act that we've discussed in previous PPAC

- 1 meetings.
- 2 This would require these USPTO to
- 3 provide for the collection of voluntary
- 4 demographic data including race, gender, military
- or veteran's status or any other category the
- 6 director deems appropriate. I won't go into
- 7 detail on the other sections listed here, but they
- 8 include the creation of an IT violators list,
- 9 enforcement of IT provisions and trade agreements,
- 10 et cetera.
- I will note that the list here is not
- 12 exhaustive and these are only some of the IP
- 13 related provisions inclusion results. If anyone
- has any questions on any of these or other
- provisions, please feel free to reach out to our
- 16 office. The next slide please.
- 17 These are a continuation of some of the
- 18 other provisions from the U.S. Innovation and
- 19 Competition Acts. The last bill mention on the
- 20 side is from ranking member Issa. He introduced
- 21 the Save Money on Auto Repair Transportation Act.
- 22 It amends Title 35 to provide an exception from

- 1 infringement of design patents for a certain
- 2 component parts of motor Vehicles. This bill has
- 3 been part of a larger bill he previously
- 4 introduced.
- 5 Finally, what was not included in this
- 6 slide. I just wanted to define for everyone.
- 7 Last week, the Senate Judiciary Committee report
- 8 out for bills related to drug typing. Similar
- 9 bills were introduced in the last Congress. The
- 10 bills dealt with (inaudible) petitioned before the
- 11 FDA, case for delay agreements and a study on the
- 12 pharmaceutical supply chain.
- Of particular interest to us is the
- 14 Affordable Prescription for Patients Act of 2021,
- which in addition to amending the (inaudible)
- 16 Commission Act to prohibit product topping, but
- 17 also amend Title 35 to limit the number of patents
- 18 that can be asserted by a biologic company against
- 19 the biosimilar competitors.
- We will continue to monitor the progress
- 21 of all these bills and provide any updates. And
- I'll pause there to see if anyone has any

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1 questions on the bills. Okay. Next slide please.
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- 2 MS. MAR-SPINOLA: Hold on. I think
- Judge Braden is speaking, but we can't hear her.
- 4 Susan, if you can hear me maybe pose your question
- 5 in chat and we can at least temporarily get your
- 6 question in. Tamara, you want to continue?
- 7 Tammy:
- 8 MS. FOLEY: Sure. Tammy is fine. Tammy
- 9 is a lot easier. I think so I'm just going to
- 10 touch really quickly on some Congressional
- 11 activity outside of the legislative activities.
- 12 The Senate IT Subcommittee held a
- hearing on patent quality and the problems that
- low quality patents can create for small
- 15 businesses and entrepreneurs particularly from
- patent assertion entities. There are no USPTO
- 17 witness on this panel. During the hearing,
- 18 however, witnesses discussed changes to the
- 19 examination process, fees and increasing resources
- for the USPTO as ways to improve patent quality.
- 21 Several Senators also acknowledged that
- 22 the work at the USPTO has done and continues to do

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1 to improve patent quality. All of the Senators
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- 2 and witnesses agreed that the USPTO should have
- 3 access to all its fees. And so, in doing so would
- 4 help improve patent quality. Judge Braden?
- 5 MS. MAR-SPINOLA: Judge Braden are you
- 6 back on?
- 7 JUDGE BRADEN: Can you hear me now?
- 8 MS. MAR-SPINOLA: Yes, perfectly.
- 9 JUDGE BRADEN: All right. I think it
- 10 was something with the headset. I just want to be
- 11 sure that when you talked about the four bills
- that went through, we didn't have a slide up.
- MS. FOLEY: No, we didn't. We didn't
- 14 get a chance to put up slides on that.
- JUDGE BRADEN: All right, okay.
- MS. FOLEY: But I did describe them,
- 17 yeah. Yeah.
- 18 JUDGE BRADEN: All right.
- 19 MS. FOLEY: Okay. And then speaking of
- 20 drug pricing. I'm just going go over it really
- 21 quickly. I'm sure Jay talked about or the finance
- 22 office talked about the appropriations bill that

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1 was passed by the House.
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- 2 But moving quickly to (inaudible) and
- 3 drug prices. And in addition to the bills that we
- 4 had discussed earlier both the Senate and the
- 5 House held hearings on drug pricing. In the
- 6 House, the hearing's focus -- the focus of the
- 7 hearing was primarily on AbbVie's continued
- 8 increase in price for its drugs and the role that
- 9 the government negotiations could play in lowering
- 10 drug prices.
- 11 However, the discussion of patent
- 12 (inaudible) PTO's in particular was raised
- 13 numerous times in the discussion, the changes to
- 14 USPTO key structure and improving patent quality
- 15 was discussed.
- In the Senate hearing, the members
- 17 stressed the need to do something about reining in
- 18 cost as well drug prices for consumers. While a
- variety of solutions were discussed including
- 20 those that were mentioned in the bills I discussed
- 21 earlier. There was actually extensive discussion
- of patent tickets. And several of the Senators

- 1 expressed concern there was potential abuses of
- 2 the system. We will continue to monitor
- 3 Congressional action on drug pricing and provide
- 4 any updates to this group.
- 5 And then finally the last thing I wanted
- 6 to report was last week. The USPTO received a
- 7 letter from a bipartisan group of Senators on the
- 8 IT subcommittee that asked the PTOs to engage in
- 9 funds the American Conference of the United States
- 10 to study and recommend whether and how a patent
- small claims tribunal could be established. They
- 12 are certainly reviewing the cost in the letter. I
- 13 can take any questions. I believe that's all I
- have.
- MS. MAR-SPINOLA: Go ahead, Judge
- 16 Braden.
- JUDGE BRADEN: I just wanted to say a
- 18 couple of things. One is it's not the American
- 19 conference of the United States. It's the
- 20 administrative (inaudible) to the United States.
- 21 That's a different group and it's run by the
- judges and that might confuse people.

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The second thing is I wanted to
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 2
       acknowledge in (inaudible) has been very active
 3
       with the subcommittee. They changed, I believe
       and couldn't make it today. But she's been a real
 5
       teammate of ours with Tamara and we appreciate
       their diligence of following daily events. Thank
 7
       you.
 8
                 MS. MAR-SPINOLA: Thank you, Susan.
 9
       Thank you, Tamara. And then we appreciate the
10
       updates there. There is a lot going on and I
       suspect there will be more activity by the time of
11
12
       our next meeting so thank you for that.
13
                 We can now move onto innovation
14
       expansion update and that is with Jennifer
15
       Camacho, chair of the subcommittee. Jennifer?
16
                 MS. CAMACHO: Thank you. We have a
17
       freeze up date today and in just a few minutes. I
      wasn't handing it over to the Valencia because she
18
      has the full times there. But there are a number
19
      of different things that are in the works. And
20
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so, we're really excited to get the update today.

But we're really looking forward to the next time

21

1 we chat. We expect to have additional updates at

- 2 that point.
- 3 MS. WALLACE: Thanks, Jennifer. Yes,
- 4 it's very brief today, but I just wanted to make
- 5 sure that everyone understands that while you may
- 6 not have heard as much from us recently, we are
- 7 working just as feverishly on our strategy on
- 8 promoting the expansion of innovation on having a
- 9 stronger, more diverse and inclusive innovation
- 10 ecosystem and to make sure that everyone realizes
- 11 that with this change in Administration really
- 12 things have not changed for us.
- 13 Before Drew Hirshfeld was the acting
- 14 directory. He was commissioner and he was fully
- 15 supportive. And in his present role, he has been
- fully supportive and more than that he has really
- 17 promoted more and pushed us even further. We have
- 18 regular weekly meetings with the Department of
- 19 Commerce about the direction we're going and the
- 20 strategy and with our initiatives towards an
- 21 inclusive environment.
- We're still working hard. Even though

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1 you haven't heard us don't think that this is not
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- 2 moving forward because it is. And in fact, as
- 3 everyone probably already knows but deserves being
- 4 said, our President Biden and his full priorities
- 5 were racial equity where the economy and both are
- 6 squarely things that we are working on. So you
- 7 will be hearing from us. We still have the
- 8 expectation that our strategy will be published
- 9 this year and just stay tuned.
- 10 MS. CAMACHO: Thank you, Valencia. I
- 11 also would like to take a moment just to encourage
- 12 everybody to take a look at the website and
- particularly the events that we have going on.
- 14 Because there are a number of events
- which really broadened out and it's fantastic.
- 16 There are Spanish language events. There are
- 17 educator events. There are innovation chats.
- 18 It's really growing. It still got the events that
- 19 the office is putting out there and I really think
- there is something there for everybody, inventors.
- It's all inventors, small business owners.
- There's a tremendous amount of effort and outreach

- 1 there. And I really do encourage everybody to
- 2 take advantage of it. There's a great wealth of
- 3 resources available to procure interested in
- 4 innovation and entrepreneurship.
- 5 MS. WALLACE: I'm sorry. Just one
- 6 second. Thank you. That's a huge year. Thank
- 7 you so much for bringing that up and please do go
- 8 to our webpage. To the regional offices, our
- 9 headquarters. We're all feverishly working on
- 10 events and programs and education and partnering
- with other organizations to keep this moving
- 12 forward.
- MS. FOLEY: And with the virtual
- 14 capabilities these days, you can attend it
- 15 anywhere. It's really fantastic. Thank you. Any
- 16 questions? With that, I'll hand it back over to
- 17 Julie.
- 18 MS. MAR-SPINOLA: Thank you, ladies.
- 19 I'm looking forward. I know PPAC is looking
- forward to learning about the strategies and
- 21 hopefully by the next meeting, but we do know that
- 22 a lot of activity and a lot of hard work is going

- 1 into this, and a lot of thought-provoking ideas
- 2 are coming out. So thank you for that.
- 3 So we are down to our last subject and
- 4 it's an important and new subject for us to hear
- 5 about from Coke Stewart. And this is the
- 6 director's initiatives on sustainability. This is
- 7 something that Drew mentioned at the opening. And
- 8 so, let me hand it over to Coke Stewart performing
- 9 the functions and duties of the deputy under
- 10 Secretary of Commerce for IP and deputy director
- of the USPTO.
- I waited at the very end to share that
- 13 super title and very impressive. But I didn't
- want to take up time until this was sustainability
- 15 segment. Thank you. Coke?
- MS. STEWART: Thanks so much, Julie.
- 17 You have to take a breath before you try to get
- 18 that all out.
- 19 Well, I just wanted to give a little
- 20 overview before I turn it over to Sarah Brown who
- 21 is going to speak on this, which is that the Biden
- 22 Administration does have these administrative

1 priorities and multiple pillars that they talked

- 2 about.
- 3 You know, as early as even before the
- 4 President took office, we have transmission
- 5 meetings. And those include economic recovery in
- 6 view of the pandemic, racial equity and it
- 7 included environmental sustainability and climate
- 8 issues. And so, we rapidly set up working groups
- 9 that are interdisciplinary working groups across
- 10 our agency. And Sarah Brown helps lead our
- 11 working groups that address climate issues. So we
- 12 have two main pillars of that climate working
- group. One relates to kind of what we do
- operationally and another addresses IP policy. So
- 15 I will turn it over to Sarah Brown to report out.
- 16 Thanks so much, Sarah.
- MS. BROWN: Great. Thanks so much,
- 18 Coke. We can actually go ahead and jump right
- 19 into the next slide.
- 20 And first, I just wanted to thank the
- 21 PPAC for giving us the time to come in and discuss
- 22 this issue today. This is an area of USPTO's

- 1 operations that doesn't get a ton of outside
- 2 attention, but there really is some great work
- 3 going on here. And so, we're really excited to be
- 4 able to share some of that with the committee
- 5 today.
- 6 Just by way of introduction and
- 7 background. USPTO has a longstanding energy and
- 8 sustainability program at the agency. These
- 9 initiatives are primarily led out of our office of
- 10 the Chief Administrative Officer. And I want to
- take a moment just really quick to recognize
- 12 USPTO's CAO, Fred Steckler.
- 13 Fred and his team have done a really
- qreat job over the years of identifying and making
- some targeted investments that really are win/wins
- 16 for the agency and our stakeholders. They reduce
- 17 our environmental footprint but at the same time
- 18 they result in long-term cost savings for the
- 19 agency.
- 20 So we have that sort of as our starting
- 21 point. And then as Coke mentioned with the new
- 22 Administration coming in, they've really put an

1 emphasis on environmental stewardship across the

- 2 board.
- 3 From day one, what they make clear that
- 4 one of the top priorities of the Biden
- 5 Administration was going to be addressing the
- 6 climate emergency. And in support of this there's
- 7 been a series of executive orders over the last
- 8 eight months that are really aimed at making sure
- 9 that there's a whole of government approach on
- 10 climate.
- 11 A lot of these orders are focusing on
- 12 how the government can engage with its partners
- and deploy its resources and programs in order to
- 14 mitigate and build up community resiliency to some
- of the worst effects of climate change. So from a
- 16 policy perspective given USPTO's focused mission,
- 17 we really have a narrow slice of that that we're
- working on. But there are components of these
- orders that are more directly applicable to USPTO.
- 20 Importantly, there are elements of the
- 21 orders that are focused on government agencies
- really leading by example. Making sure our

- 1 buildings are energy and water efficient and that
- 2 our operations are climate resilient.
- 3 And beyond that the executive orders
- 4 along with the identification of this broader
- 5 Administration priority on climate have really
- 6 been good to set the tone and give us an
- 7 opportunity to highlight some of the great work
- 8 that is being done at the agency in this area.
- 9 And so, that's what we're going to share a few
- 10 examples of with you today. We can move to the
- 11 next slide.
- 12 So as you all know, USPTO is a big, you
- 13 know, 13,000 person organization and that means
- that we are in the somewhat unfortunate position
- of being able to produce a lot of waste. In 2020,
- 16 USPTO generated 885 tons of solid, nonhazardous
- 17 waste. But we really do what we can to try to
- 18 mitigate the impact of that. So of those 885 tons
- of waste last year, none of it ended up in
- 20 (inaudible). We were able to (inaudible) 70
- 21 percent of that to a state-of-the-art waste to
- 22 energy facility right here in Alexandria where it

- 1 gets converted into reusable energy.
- 2 The rest of it about 230 tons, we were
- 3 able to divert through either reuse or recycling
- 4 programs. So in addition to having on campus
- 5 bottle, can, paper, plastic recycling. The agency
- 6 also recycles or donates a lot of its furniture
- 7 and electronics.
- 8 So since the beginning of 2020, we have
- 9 actually donated more than 2,500 pieces of
- 10 computer equipment that is no longer needed at the
- agency or no longer meets the agency's very strict
- 12 IT security standards or compatibility standards.
- 13 We were able to donate that through a program of
- 14 the general services Administration called
- 15 Computers for Learning. So those pieces of
- 16 equipment, monitors, computers, printers were able
- 17 to be transferred to schools.
- 18 Also, leveraged a lot of GSA programs to
- 19 redistribute furniture and equipment that we
- aren't able to repurpose internally. And even
- 21 though these have slowed down a little bit during
- 22 the pandemic. Just to give you an example, in

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2019 we were able to recover about $550,000
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- 2 through GSA auctions. So that again is a
- 3 financial benefit to the agency and it's also, you
- 4 know, making sure that that equipment does not end
- 5 up in a landfill.
- And we're also making steps to reduce
- 7 the amount of waste that the agency generates in
- 8 the first place. A good example here is a set of
- 9 measures that we're taking around printing
- 10 including adjustments to our default settings and
- installing new print management software. These
- 12 kinds of measures are expected to result in a 35
- to 40 percent reduction in paper usage in the
- 14 years ahead. So we can move to the next slide.
- Okay. Another really big area where
- we're working hard to manage our impact is around
- energy consumption. So first, we have been
- 18 optimizing our facilities for several years now to
- 19 ensure that they consume less energy. In 2020, we
- 20 reduced total energy usage on our main campus by
- 21 10 percent. And certainly, the fact that we were
- in a maximum telework posture for half of the year

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1 contributed to that, but you can see from the
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- 2 chart there that that's really only part of the
- 3 story. USPTO has been successfully reducing the
- 4 energy that we consume for the last decade. And
- 5 in fact, our campus has been energy star certified
- 6 every year since 2012.
- And, you know, it's not something that
- 8 automatically happened. It takes a lot of effort
- 9 and it's been a lot of years in getting us to
- 10 where we are today. A notable recent example of
- something that we've done to manage our energy
- 12 consumption is over the last two years, we have
- 13 replaced about 34,000 fluorescent lamps across our
- main campus with LED lamps.
- 15 And each one of these replacements saves
- 16 51 watts a year which might not sound like a lot,
- but once you multiple that over 34,000 it adds up
- to a reduction of about three million kilowatt
- 19 hours each year, which is about five percent of
- 20 our overall energy consumption. And then
- 21 translating that to dollars that's about \$180,000
- 22 per year that we'll be able to save.

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1 And then we're also took steps earlier
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- 2 this year to consolidate our office space. And we
- 3 vacated one of our outlying buildings in
- 4 Alexandria. Brought those staff back onto our
- 5 main campus buildings and this reduced our space
- footprint that we're having to manage by 55,000
- 7 square feet.
- 8 Then looking outside of our facilities,
- 9 we've also taken a lot of steps to reduce vehicle
- 10 emissions. So USPTO has -- we have a pretty small
- 11 vehicle fleet. It's just six vehicles which we
- 12 lease through GSA. All six of those vehicles are
- now hybrid vehicles. But even more substantial
- than that is the impact of our telework programs
- on the emissions of our workforce.
- And so, as you all know even before the
- 17 pandemic, USPTO had really robust telework
- 18 programs in place. We had estimated that in a
- 19 typical year the fact that these employees were
- 20 not commuting every day leads to roughly a 50,000
- 21 ton reduction in emissions each year. And yes, I
- 22 said that correctly. It's 50,000 tons of emission

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1 reductions. And last year, we estimate that that
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- 2 increased to 75,000 tons. So that is pretty
- 3 significant. Next slide.
- 4 So purely from an environmental
- 5 stewardship perspective, we're really proud of
- 6 these sustainability achievements, but from your
- 7 perspective as stakeholders and importantly as the
- 8 payers of fees to USPTO to finance our operations,
- 9 we really do want to emphasize that the kinds of
- 10 things I'm talking about here show a clear,
- 11 significant financial benefits for agency.
- 12 I mentioned the introduction of print
- 13 management software. That investment paid for
- itself in the first 18 months and we expect that
- it is going to reduce paper and toner to such an
- extent that we'll save about \$450,000 a year going
- 17 forward.
- Moving over to hybrid vehicles that's
- 19 reducing our fuel costs by selling our surplus
- 20 furniture. We're able to recover a share of that
- 21 through auction. I mentioned that the move to
- vacate one of our office spaces that's going to

- 1 save USPTO about \$2.2 million each year moving
- 2 forward. And then I already mentioned the
- 3 expected savings of \$180,000 from that investment
- 4 in replacing our fluorescent lights with LED
- 5 lights.
- 6 So this is not something where we have
- 7 to choose between environmental stewardship and
- 8 financial stewardship. There really are a lot of
- 9 things that we can do that are supporting both of
- 10 those goals. Next slide.
- Okay. So just a few more examples.
- 12 Looking back, so much of our focus has been on
- 13 sustainability and cost savings and that still is
- 14 very much an area of focus for us, but in addition
- following the administration's lead, we're also
- 16 paying close attention to resiliency. In other
- words, making sure USPTO's operations are
- 18 resilient to the risks that come with climate
- 19 change.
- 20 And so, I just want to hit on a few
- 21 examples here of things that are very recent or
- 22 are ongoing activities. On the sustainability

- 1 front, we just recently implemented an internal
- 2 demand response program and when that is
- 3 activated, it sort of automatically senses how
- 4 much activity is happening in the agency. How
- 5 much power load there is and in areas within the
- 6 buildings where there's not a lot of load, it
- 7 automatically dials back the AC so that we're not,
- 8 you know, pumping tons of air into space that
- 9 really doesn't need it.
- 10 So we are for the future exploring
- 11 possibilities of finding these kinds of automated
- 12 solutions for things like, you know, occupancy
- sensors and daylight sensors for our lighting so
- 14 that, you know, if no one is around or if there's
- 15 sufficient daylight, we're not continually keeping
- 16 the lights on.
- 17 On the IT front, we are nearing the end
- 18 of a multiyear effort to optimize the energy use,
- 19 airflow and temperature controls in our
- 20 datacenter, which that's going to make it more
- 21 energy efficient but it's also going to reduce the
- 22 risk of power related system outages. Again,

- finding those win/wins for the agency.
- 2 And we're also in the process of
- 3 relocating our disaster recovery site getting to
- 4 resiliency. This is part of a bigger effort to
- 5 make sure that we have the space and power that we
- 6 need to have failover capabilities for all of our
- 7 IT systems, which I'm sure you've all heard about
- 8 that over the last couple of years. But since one
- 9 of the big risks that we're accounting for is, you
- 10 know, what happens if there's a major climate
- 11 event that takes the main data center offline?
- Begin able to have that redundancy really helps us
- out from a climate resiliency perspective as well.
- 14 And then finally, I noted before our
- 15 telework programs. Those continue to evolve in
- 16 addition to having a big impact on the level of
- 17 emissions from the agency. These are also helping
- 18 us to be very climate resilient from a continuity
- of operations perspective if there's an extreme
- 20 weather event this helps us to be able to have our
- 21 operations very disbursed.
- 22 And, you know, there are functions

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1 where, you know, just a year, a year and a half
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- ago, we did not think they could be done remotely.
- 3 We're starting to learn that many of these can be
- done remotely. And so, we're taking those lessons
- 5 learned and we're incorporating them into our
- 6 telework items for moving forward. And I'm sure
- 7 that the committee will hear much more about that
- 8 in the future as we move forward with some of
- 9 these program modifications. Okay. Next slide.
- 10 So speaking of moving forward, I'm
- looking to the future as I'm sure you can tell, we
- are always looking for areas where we can improve.
- 13 As Coke mentioned while the recent executive
- orders haven't had a ton of direct requirements
- for the USPTO, we are really embracing the spirit
- of these orders. And in March, we set up a
- 17 climate working group. That working group is
- 18 comprised of a handful of really passionate
- 19 individuals from patents, trademarks, our office
- of policy and international affairs and also our
- 21 mission support organizations. And as Coke
- 22 mentioned, we have two different swim lanes for

- 1 this working group.
- 2 Part of the group is looking at, you
- 3 know, various areas of our operations where
- 4 through additional capital investments or changes
- of practices, we could improve the sustainability
- 6 of our liberal corporations at the USPTO. And
- 7 more also (inaudible) updates to USPTO's patent
- 8 and trademark programs in order to identify ways
- 9 where USPTO might be able to facilitate green
- innovation or encourage growth in the green
- 11 economy.
- 12 And so, all of this is in its very early
- 13 stages right now, but we're really excited to see
- what the next several years will bring on this
- front. And with that I will pause for questions
- or yield the floor.
- MS. STEWART: I just wanted to add --
- 18 first of all, Sarah, thank you for that phenomenal
- 19 presentation.
- As you can tell, Sarah, that these
- initiatives are in capable hands with Sarah
- 22 helping to lead the effort. And as you can sense,

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1 Sarah is -- her home office is the office of the
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- 2 Chief Financial Officer. So she can rattle off
- 3 these financial statistics and cost savings better
- 4 than anyone. And she is currently in the office,
- 5 obviously, under the Secretary and senior advisor
- 6 to the director for operations.
- 7 And as Sarah explained. All these
- 8 initiatives are really not, you know, projects
- 9 that, you know, make us feel better about what
- 10 we're doing assignment. These are really is savvy
- 11 plans that do what we can to better use the
- staples or fees that we're receiving on a daily
- 13 basis.
- 14 And the other point I think Sarah made
- which is so excellent is that this isn't about,
- 16 you know, some long-term climate change issue.
- 17 This is about resiliency as of today. And, you
- 18 know, what we do weather events. If there's a
- 19 loss of power? If there's a hurricane? If
- there's a snow storm? You know, all of these
- 21 kinds of resiliency measures and disbursed
- 22 workforce prevents us from keep working sometimes

- 1 to the chagrin of those who used to enjoy those as
- 2 snow days in the Washington capitol area.
- 3 You know, we keep working because we
- 4 have a telework ready workforce. So I just wanted
- 5 to thank Sarah again and thank you, Julie, for
- 6 permitting us time to talk about some of these
- 7 initiatives that we're working on in the front
- 8 office.
- 9 MS. MAR-SPINOLA: Thank you, Coke. And
- 10 thank you, Sarah. I have to go with what Coke
- 11 said about your presentation. Very helpful, very
- informative and a strong dose of passion included
- in that so thank you very much.
- 14 I think that, Coke, what you said about
- resiliency, you know, and it's focused more or
- less on the present. I think and less on the long
- 17 term. But I think when you look at the aggregate
- of resiliency that has helped the long-term
- 19 efforts and climate change, right? So kudos to
- 20 the patent office. And I'm more than happy and I
- 21 thank you for even asking us for time to make that
- 22 presentation here. It's definitely a social

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1 interest that I think is worth promoting or at
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- least discussing with our external stakeholders.
- 3 So if there aren't any questions and I
- don't see any in chat. Let me just ask the PPAC
- 5 members if you have any questions?
- 6 MR. CHAN: Actually, I have a question,
- 7 Julie. Really enjoyed the presentation, Sarah.
- 8 And it was great to hear about these wonderful
- 9 initiatives.
- 10 My question relates to -- I mean, all of
- 11 the different organizations and companies, many of
- them out there trying to move toward a smaller
- 13 environmental footprint. Have we done any reach
- outs to do best practice sharing? I mean I think
- about examples like datacenter power management
- and temperature control, much of which has been
- 17 outsourced -- I mean open sourced with a variety
- 18 of companies.
- 19 Have we been kind of sharing and
- 20 learning from other organizations who are trying
- 21 to do very similar things that you mentioned?
- MS. BROWN: Yeah, I don't know that we

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1 have an active campaign to do that, but we
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- 2 definitely are in contact with other federal
- 3 agencies particularly on the telework front. Very
- 4 much involved in sharing best practices. I know
- 5 that our CIO, Jamie Holcombe, is very active in
- 6 sharing best practices with industry and, you
- 7 know, engaging in conversations there.
- 8 Beyond that I would have to get back to
- 9 our CIO to find out the specifics of, you know,
- 10 how much they engage with external partners
- 11 regarding what we're doing on the resiliency
- 12 front. But we're happy to get back with some
- 13 responses on that.
- MR. CHAN: Thank you.
- MS. MAR-SPINOLA: Anyone else? All
- 16 right. Jeremiah, thank you so much. And again,
- 17 thank you, Sarah, for your presentation. I think
- this concludes our meeting. And but before I
- 19 adjourn, I'd like to thank everyone, PPAC members,
- 20 the patent office members as well as all the
- 21 attendees in today's meeting and our external
- 22 stakeholders for attending. And for having

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1 engagement enough to ask us questions and keep us
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- 2 all on our toes.
- I want to especially thank Jennifer Lo
- 4 who is kind of our shepherd. She has kept us all
- 5 together and on time and has been very gracious
- about that as well as our WebEx tech team who
- 7 keeps this program going virtually.
- 8 Our next meeting will be November 18th.
- 9 That is our last meeting for the year. And that
- 10 will be the time that PPAC will highlight what we
- will be covering in our annual report which will
- be published around November 23rd.
- So with that I'd like to adjourn the
- 14 meeting. Do I have a second?
- MR. CASSIDY: Second.
- MS. MAR-SPINOLA: Barney has second it.
- 17 Thank you very much. Everybody stay safe and be
- 18 happy. Take care. Bye-bye.
- 19 (Whereupon, at 3:03 p.m., the
- 20 PROCEEDINGS were adjourned.)
- 21 * * * * *

1	CERTIFICATE OF NOTARY PUBLIC
2	COMMONWEALTH OF VIRGINIA
3	I, Mark Mahoney, notary public in and for
4	the Commonwealth of Virginia, do hereby certify
5	that the forgoing PROCEEDING was duly recorded and
6	thereafter reduced to print under my direction;
7	that the witnesses were sworn to tell the truth
8	under penalty of perjury; that said transcript is a
9	true record of the testimony given by witnesses;
10	that I am neither counsel for, related to, nor
11	employed by any of the parties to the action in
12	which this proceeding was called; and, furthermore,
13	that I am not a relative or employee of any
14	attorney or counsel employed by the parties hereto,
15	nor financially or otherwise interested in the
16	outcome of this action.
17	
18	(Signature and Seal on File)
19	Notary Public, in and for the Commonwealth of
20	Virginia
21	My Commission Expires: August 31, 2021
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