Subject: Re: Request

Date: Monday, April 15, 2019 at 8:00:00 AM Eastern Daylight Time

From: Andrew Moore

To: Yll Bajraktari, [Moore Support Staff, (b)(6)]

That's very kind of you, thanks!

[(b) (6)] can help us schedule that 15-min call.

On Sun, Apr 14, 2019 at 4:16 PM Yll Bajraktari <[(b) (6)]> wrote:

I can arrange a call with you whenever you want this week and I'll have two other guys from our team provide their thoughts.

I do family vacation to [(b) (6)] every summer - but I only provide dates without a description.

I am not an expert on this but from all the trips you need to report CLOSE and CONTINUING relationship (in my case - I provide the list of contacts ((childhood friends)) that I still communicate with). I could be wrong but if you exchanged few words with someone at a conference but that was it you don't need to worry about. I have traveled with Bob Work around the world and yes we talked to foreigners but that was it.

Let me know if you want to talk to guys that know this issue better than I do. I can also have our lawyer who is very good about these things jump in on the call to help.

Hope this helps but lets do a call. 10-15 min would help you I think to narrow down the scope.

> On Apr 14, 2019, at 4:02 PM, Andrew Moore <[(b) (6)]> wrote:
>
> Anyone I could consult with about the level of specificity for foreign trip descriptions? [(b) (6)]

On Sun, Apr 14, 2019 at 3:34 PM Yll Bajraktari <[(b) (6)]> wrote:

Let me know if there is anything I can do to help.

> On Apr 14, 2019, at 3:01 PM, Andrew Moore <[(b) (6)]> wrote:
>
> You are wise, and I would really like to be in a position to help out more fully. I will keep next weekend (20th and 21st) clear to work on this.

> On Fri, Apr 12, 2019 at 3:24 PM Yll Bajraktari <[(b) (6)]> wrote:
>
> Andrew,
>
> I am kindly asking you to submit your SF-86 forms.

I understand the difficulty of those forms - believe me - (b) (6) ██████. But in my view you should use this opportunity to get the clearance as fast as possible since the Commission offers you that opportunity.

Happy to help you in anyway we can.

Best,

Ylli

Yll Bajraktari
Executive Director
National Security Commission on Artificial Intelligence

Subject: Re: For Review: NSCAI WG1 draft agenda for May 8

Date: Thursday, April 25, 2019 at 6:29:44 PM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6)

CC: Yll Bajraktari, NSCAI Staff Member, (b)(6), NSCAI Volunteer, (b)(6), Moore Support Staff, (b)(6)

This sounds very good.

I am wondering if you might have the time to check in with CRA, AAAI and/or NAS on stats around career paths of folks in the areas of CS, statistics and (if available) AI.

The kinds of numbers that would be useful would be time series over the past N years on counts of number of people starting in the following career stages: starting an undergrad degree, starting a PhD, starting a faculty career, starting a faculty career in a top university (maybe use AAS as a proxy). Broken up ideally by gender and whether the person is domestic versus international.

On Thu, Apr 25, 2019 at 6:02 PM NSCAI Staff Member, (b)(6) wrote:

Dr. Moore,

I hope this finds you well! Following identification of a date and time for the working group's first meeting on May 8th, we've built out a draft agenda along the lines of the approach we discussed in our initial brainstorming call, albeit scaled down to fit within the two hour time slot we have to work with.

I've attached it here for your feedback. We are ready and available to connect for a quick phone call in the coming days to discuss in greater detail, should you be interested to do so.

You'll see that we've set up the afternoon to open with a brief scene setter capturing the broad trends in US/China/Europe AI research landscapes from the authors of the AI Index (specific briefer TBD). We've asked them to also draw out the implications of these trends for US policy and highlight where there are deficiencies in data that, if addressed, could improve decision-making and prioritization. This snapshot will be followed by a presentation on the US academic community's proposed response to this landscape: the 20-year AI Research Roadmap for the U.S. developed by CRA Computing Community Consortium and AAAI. We would then close this portion of the agenda with a discussion with both briefers.

The second section of the agenda will focus specifically on DoD investment in AI research and development, featuring analysis from a private-sector firm, Govini, who has done some compelling data analysis around how much, in which issue areas and with who the DoD has focused its investments in AI.

Finally, we'll close with executive time for you and the other commissioners to discuss the issues you would like to bring to the plenary session on May 20, the hard questions identified from the briefings to take forward for further assessment, and a framework around which to organize the working group's efforts going forward. Along these lines, I've also attached for your consideration an initial draft of a possible framework.

Once you are comfortable with the agenda for the 8th, I'll share with Dr. Schmidt and Dr. Horvitz for their feedback and awareness.

Again, we stand ready to hop on a call to talk through any of the above at your convenience. Thank you in advance for your feedback.

Respectfully,

(b) (6)

NSCAI Staff Member, (b)(6)
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b) (6)
(b) (6)

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Subject: Re: Clearance

Date: Saturday, May 4, 2019 at 5:24:35 PM Eastern Daylight Time

From: Andrew Moore

To: Yll Bajraktari

I apologize, but I am still working through it. I've completed all relatives, jobs and addresses but now its 20B: Foreign Business, Professional Activities and Foreign Government Contacts

I'm sure the clearance investigators don't literally want everyone I have given advice to who works for a foreign company or organization. Based on our call a couple of weeks ago, is it OK to restrict myself to major meetings with individual government officials or other contacts which I guerss might be sensitive? (b) (6)

From: Yll Bajraktari <(b) (6)   >
Date: Wed, Apr 24, 2019 at 3:06 PM
To: Andrew Moore

outstanding.

On Apr 24, 2019, at 2:54 PM, Andrew Moore <(b) (6)   > wrote:

Thanks! Yes the meeting last week was enormously helpful. I am now most of the way through the SP86 form, including all the foreign travel. I expect to finish this weekend.

On Wed, Apr 24, 2019 at 1:28 PM Yll Bajraktari <(b) (6)   > wrote:
I hope you are making progress :)

It would be great to get you some kind of an interim clearance for May 20th because you will enjoy some of the briefings.

Let me know if I can help.

--
*This message is private and may contain confidential information or other matter otherwise protected from disclosure. If you are not the intended recipient, please telephone or email the sender and delete this message and any attachment from your system; you must not copy or disclose the contents of this message or any attachment to any other person. Transmission **of any material prepared by a third-party should not be construed to constitute an endorsement of that material or any analysis or commentary therein by the NSCAI. *

Subject: Re: CRA Response to CS/AI career track RFI

Date: Wednesday, May 8, 2019 at 11:18:54 AM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6)

CC: Moore Support Staff, (b)(6) , Yll Bajraktari, NSCAI Staff Member, (b)(6) , Michael Gable, NSCAI Volunteer, (b)(6)

Excellent data!

From: NSCAI Staff Member, (b)(6)
Date: Wed, May 8, 2019 at 11:17 AM
To: Andrew Moore
Cc: Moore Support Staff, (b)(6) , Yll Bajraktari, NSCAI Staff Member, (b)(6) , Michael Gable, NSCAI Volunteer, (b)(6)

Dr. Moore,

Following up on your inquiry regarding statistics around career paths in computer science, statistics, and AI across undergraduate, PhD and faculty career stages, I attach here analysis pulled together by CRA's Director of Statistics and Evaluation, Betsy Bizot. She used 14 years of data from the CRA Taulbee Survey, covering computer science and AI-specific tracks, highlighting trends in gender breakdown and international students. Unfortunately they do not have similar data on statistics.

(b) (6) will bring a hard copy of the slides with him this afternoon, and we'll also provide it to the other commissioners for additional context to today's discussion.

(b) (6) and I stand by to track down further details and analysis not covered in this first response, as well as dig deeper into any questions it raises.

Respectfully,
(b) (6)

NSCAI Staff Member, (b)(6)
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b) (6)
(b) (6)

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Subject: Invitation: NSCAI: Discuss Working Group Outbrief for 20 May Plenary @ Thu May 16, 2019 10am - 10:30am (EDT) (^{NSCAI Staff Member, (b)(6)})

Date: Wednesday, May 15, 2019 at 11:05:56 AM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: ^{NSCAI Staff Member, (b)(6)}, Yll Bajraktari, ^{NSCAI Staff Member, (b)(6)}

Attachments: invite.ics

-::~:~::·:·:·~·::·:~::-
Please do not edit this section of the description.

This event has a video call.
Join: (b) (6)
+(b) (6)   PIN: (b) (6)
View more phone numbers: (b) (6)

View your event at (b) (6)

.
-::~:·:::·:·:·:·:·:·~·:·:·::·:·:-

Subject: Re: Documents for 10am call

Date: Monday, May 20, 2019 at 11:00:15 AM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6)

CC: Moore Support Staff, (b)(6) , NSCAI Staff Member, (b)(6) , Yll Bajraktari

Thanks very much. Yes, that all sounds perfect. I will certainly be able to be online by 14:30, and will be prepared to give the brief and take Q&A.

On Mon, May 20, 2019 at 10:52 AM NSCAI Staff Member, (b)(6) wrote:

Dr. Moore,

So sorry to hear of the flight troubles!

If it works with the dial in, we'd welcome your remarks to the plenary to provide the working group out brief. Attached are here some draft talking points to assist in your preparation. I've also attached the slide we've prepared for display during the briefing. Please let me know if you would like to make any edits.

This portion of the agenda will begin at 1400 PT, following the working lunch. Each working group chair will provide an out brief of the working group's first meeting. Each group is allotted 20 minutes on the schedule, so our recommendation is to aim for a 5 minute presentation (highlighting key takeaways, next steps and discussion points) to allow for 15 minutes of discussion. We see this as an opportunity to foster collaboration and solicit input from across the commission on the working group's area of focus.

I believe (b)(6) mentioned you would be available after 1430 PT, so we can adjust the ordering of the presentations to allow for this.

Should you want to reference the briefings we received on 8 May, you can find them here:

- AI Index
- 20 Year Roadmap for AI Research
- DoD AI Investments

Lastly, we've asked for further clarity from Govini on the definition of AI they used to generate their DoD spending analysis as well as their broader snapshot to encompass big data and all machine learning, etc. We have not yet heard back, but will continue to track it down.

We'll follow up with all the dial in details. Should anything come up, (b)(6) and I are reachable at the following numbers: (b)(6) ((b)(6) and (b)(6) ((b)(6)).

All best,
(b)(6)

NSCAI Staff Member, (b)(6)
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b)(6)
(b)(6)

On May 20, 2019, at 7:42 AM, Andrew Moore <(b) (6)> wrote:

As you've probably heard I had a flight delay (5 hours delay!). I will be dialing in.

NSCAI Staff Members, (b)(6)---would you still like me to present something in the plenary group? Should I put together some slides (happy to...I have a pretty clear schedule right now!)

On Thu, May 16, 2019 at 9:49 AM NSCAI Staff Member, (b)(6) wrote:

Dr. Moore,

Ahead of our check in call at 10am, I wanted to share with you the key takeaways and next steps from the 8 May working group meeting that (b) (6) and I drafted for your consideration to present during the working group outbriefs in Monday's plenary meeting.

We look forward to discussing this with you, as well as the framework and way ahead for the working group.

Respectfully,
(b) (6)

NSCAI Staff Member, (b)(6)
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b) (6)
(b) (6)

Subject: Re: AI Commission - Official Email Accounts

Date: Tuesday, May 28, 2019 at 1:25:15 PM Eastern Daylight Time

From: Andrew Moore

To: [NSCAI Staff Member, (b)(6)] Yll Bajraktari

CC: [Moore Support Staff, (b)(6)]

Hi [(b) (6)], friendly followup on this,

Thanks,

Andrew

On Mon, May 20, 2019 at 7:55 AM Andrew Moore <[(b) (6)]> wrote:

[(b) (6)],

Hi there, I am one of the commissioners. I just tried to set up my gsuite account but the link has expired. When you get the chance would you mind resending?

Thanks,

Andrew

---------- Forwarded message ---------

From: **Michael Gable** <[(b) (6)]>

Date: Fri, Apr 12, 2019 at 2:58 PM

Subject: AI Commission - Official Email Accounts

To: <Safra Catz, (b)(6)>, <Steve Chien, (b)(6)>, <Mignon Clyburn, (b)(6)>, <Christopher Darby, (b)(6)>, <Kenneth M. Ford, (b)(6)>, <José-Marie Griffiths, (b)(6)>, <José-Marie Griffiths, (b)(6)>, <Andy Jassy, (b)(6)>, <Gilman Louie, (b)(6)>, <William Mark, (b)(6)>, <Jason Matheny, (b)(6)>, Katharina Mcfarland <(b) (6)>, <Andrew W. Moore, (b)(6)>, <Eric Schmidt, (b)(6)>, <Robert Work, (b)(6)>

Cc: <Catz Support Staff, (b)(6)>, <Darby Support Staff, (b)(6)>, <Ford Support Staff, (b)(6)>, <Griffiths Support Staff, (b)(6)>, <Griffitths Support Staff, (b)(6)>, <Horvitz Support Staff, (b)(6)>, <Jassy Support Staff, (b)(6)>, <Louie Support Staff, (b)(6)>, <Louie Support Staff, (b)(6)>, <Mark Support Staff, (b)(6)>, <Moore Support Staff, (b)(6)>, <Schmidt Support Staff, (b)(6)>

Dear Commissioners,

Shortly, you will receive an email requesting you to set up your nscai.gov email address. We've copied your staff on this email so they can assist you in the process. For convenience, the system is configured to permit you to add the account to your personal devices (after you have completed the 2-step verification process described below).

This is our official government email and file system, so all email sent or received through this system is subject to the Freedom of Information Act. Additionally, this is for *unclassified information only.*

Please follow the steps below to gain access to the system:

1 - When you receive the email, you will be asked to log into our G Suite account with the credentials provided. Your email address will be in the format of [(b) (6)]

2 - On your first login, you will be required to change your password. Passwords must be at least 10 characters including at least one upper case letter, one lower case letter, one number, and one symbol.

3 - Once you have logged in, select account, then security.

4 - You will need to set up 2-factor verification (2FV).

5 - Once you have set up 2FV, you will need to enable it for logon.

6 - We will be notified when you have completed your initial login and setup. After receiving that notification, we will transfer your account into the Commissioner domain which will give you access to email, document sharing, etc.

Please let NSCAI Staff Member, (b)(6) oe me know if you have questions or have issues with your account setup.

Very Respectfully,
Mike

MICHAEL GABLE
Chief of Staff
National Security Commission on Artificial Intelligence
(b) (6)
(b) (6)

Subject: Fwd: Next Steps for NSCAI Working Group #1

Date: Monday, June 3, 2019 at 11:33:07 PM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6), NSCAI Staff Member, (b)(6), Yll Bajraktari, Michael Gable, NSCAI Staff Member, (b)(6), Moore Support Staff, (b)(6)

Attachments: smime.p7s

Hi folks,

I'm using my nscai.gov email to continue this conversation.

Comments inline...

---------- Forwarded message ---------
From: NSCAI Staff Member, (b)(6)
Date: Tue, May 28, 2019 at 8:44 AM
Subject: Next Steps for NSCAI Working Group #1
To: Andrew Moore <(b) (6)>
Cc: NSCAI Staff Member, (b)(6) Yll Bajraktari <(b) (6)>, Michael Gable <(b) (6)>, Moore Support Staff, (b)(6) <(b) (6)> NSCAI Volunteer, (b)(6), NSCAI Staff Member, (b)(6)

Dear Dr. Moore,

Thank you again for overcoming travel obstacles to dial in to the plenary discussion last week! Our team came away from the day feeling positive about the productive dialogue among the commissioners as well as the guidance developed for next steps towards recommendations.

Thanks for excellent organization

Per my email to the working group, (b) (6) and I are moving ahead with the four key tasks we took from the group's first meeting and the plenary session:

1. (b) (5)

(b) (5)

2. (b) (5)

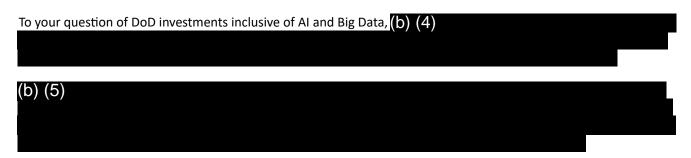(b) (5)

3. (b) (5)

(b) (5)

4. (b) (5)

(b) (5)

We recommend a call in next week or two to: (1) discuss the above and (2) review the specific agenda for the meeting in greater detail.

(b) (6), please can you set this up?

We are currently reaching out to OSTP, OMB, and OSD (CAPE) to participate as briefers as well as gathering input from DARPA, IARPA and the services to present to the group regarding their AI research priorities and investments.

Great

Finally, we heard back from Govini in terms of the definition they used to encompass AI in their briefing. I've pasted below the detailed taxonomy they used to drive the analysis, which they developed through collaboration with their DoD clients.

To your question of DoD investments inclusive of AI and Big Data, (b) (4)

(b) (5)

We standby to provide any additional information/context on this front.

All best,

NSCAI Staff Members, (b)(6)

---------- Forwarded message ---------
From: **Andrew Moore** <(b) (6)>
Date: Mon, Jun 3, 2019 at 10:22 PM
Subject: Fwd: Next Steps for NSCAI Working Group #1
To: <Andrew Moore, (b)(6)>

---------- Forwarded message ---------
From: NSCAI Staff Member, (b)(6)
Date: Tue, May 28, 2019 at 8:44 AM
Subject: Next Steps for NSCAI Working Group #1
To: Andrew Moore (b) (6)>
Cc: NSCAI Staff Member, (b)(6), Yll Bajraktari <(b) (6)>, Michael Gable <(b) (6)>, Moore Support Staff, (b)(6) <(b) (6)>, NSCAI Volunteer, (b)(6), NSCAI Staff Member, (b)(6)

Dear Dr. Moore,

Thank you again for overcoming travel obstacles to dial in to the plenary discussion last week! Our team came away from the day feeling positive about the productive dialogue among the commissioners as well as the guidance developed for next steps towards recommendations.

Per my email to the working group, (b) (6) and I are moving ahead with the four key tasks we took from the group's first meeting and the plenary session:
1. (b) (5)
2. (b) (5)
3. (b) (5)

4. (b) (5)

We recommend a call in next week or two to: (1) discuss the above and (2) review the specific agenda for the meeting in greater detail.

We are currently reaching out to OSTP, OMB, and OSD (CAPE) to participate as briefers as well as gathering input from DARPA, IARPA and the services to present to the group regarding their AI research priorities and investments.

Finally, we heard back from Govini in terms of the definition they used to encompass AI in their briefing. I've pasted below the detailed taxonomy they used to drive the analysis, which they developed through collaboration with their DoD clients.

To your question of DoD investments inclusive of AI and Big Data, (b) (4)

We standby to provide any additional information/context on this front.

All best,
NSCAI Staff Members, (b)(6

Govini definition of AI for 8 May presentation:

(b) (4)

- (b) (4)

- (b) (4)

- (b) (4)

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- (b) (4) ████ ████████████████████████████████████
████████████████████████████████████

NSCAI Staff Member, (b)(6)
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b) (6) ████████
(b) (6) ████████

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Subject: Re: June 28th

Date: Thursday, June 13, 2019 at 7:21:06 PM Eastern Daylight Time

From: Andrew Moore

To: Michael Gable

CC: Yll Bajraktari, [Moore Support Staff, (b)(6)] , [NSCAI Staff Member, (b)(6)]

OK got it and (of course) no problem for misunderstanding (and sorry for not noticing on my end).

I'm just heading out on vacation and will put this as high priority when I get back.

On Thu, Jun 13, 2019, 15:59 Michael Gable <(b) (6)> wrote:
> Andrew,
>
> I'm sorry for any confusion. While recommend using the SF86 as a way to gather the information necessary to fill out the eQIP online, the electronic version is the only way they accept clearance applications any more. Because of this, it's likely that none of us caught the subtlety that you thought it was either/or, not a sequential step. I recognize that you volunteer your time with us and appreciate the effort required to comply with the bureaucratic nuisances. Thank you.
>
> Once again, I apologize for any confusion.
>
> v/r,
> Mike
>
>
>> On Jun 13, 2019, at 11:45 AM, Andrew Moore <(b) (6)> wrote:
>>
>> Thanks for the note Michael. I assume you've already done so, but would you mind double-checking with Yll? I was explicitly asked to do this via the SF86 form.
>>
>>
>>
>> On Thu, Jun 13, 2019 at 10:27 AM Michael Gable <(b) (6)> wrote:
>>> Andrew,
>>>
>>> Thank you for pulling together all of your information for your clearance. Unfortunately, you will need to submit the information electronically via the eQIP system. The security office is unable to process clearances from the paper forms. Please log into the system as soon as possible to upload the information so we can get the security team processing your clearance application. Please let me know if you have any questions.
>>>
>>> Thank you!
>>>
>>> v/r,
>>> Mike
>>>
>>> Michael Gable
>>> (b) (6)
>>> (b) (6)

On Jun 9, 2019, at 6:04 PM, Yll Bajraktari <(b) (6)> wrote:

---------- Forwarded message ---------
From: **Andrew Moore** <(b) (6)>
Date: Sun, Jun 9, 2019 at 4:51 PM
Subject: Re: June 28th
To: Yll Bajraktari <(b) (6)>

I have completed the clearance form.

I have attached it. There are two supplementary spreadsheets also. Very grateful if you can figure out who this needs to be forward to.

Thanks,

Andrew

First spreadsheet: travel_meetings_contacts : travel, international meetings, foreign government contacts
Second spreadsheet: Additional family members

On Tue, Jun 4, 2019 at 10:32 AM Yll Bajraktari <(b) (6)> wrote:
> Andrew,
>
> If you submit your SF86 this week, there is a chance we can get you a clearance on time for June 28th special briefing with the Office of Net Assessment on China 2040. This is the briefing that the other Commissioners received but since Eric missed it I am bring ONA to do it again. It would be wonderful if you could sit in, it is an impressive briefing.
>
> Let us know if we can help.
>
> Y
>
> --
> *This message is private and may contain confidential information or other matter otherwise protected from disclosure. If you are not the intended recipient, please telephone or email the sender and delete this message and any attachment from your system; you must not copy or disclose the contents of this message or any attachment to any other person. Transmission **of any material prepared by a third-party should not be construed to constitute an endorsement of that material or any analysis or commentary therein by the NSCAI. *
> <SF86-16a.pdf>

Subject: Accepted: NSCAI WG1 Meeting @ Fri Jun 28, 2019 2:30pm - 7pm (EDT) (NSCAI Staff Member, (b)(6))

Date: Wednesday, June 26, 2019 at 9:45:42 AM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: NSCAI Staff Member, (b)(6)

Attachments: invite.ics

POC: NSCAI Staff Member, (b)(6), (b) (6)

-.::.~.:.~.:.~.::.~.:.~.:-
Please do not edit this section of the description.

This event has a video call.
Join: (b) (6)
+(b) (6)   PIN: (b) (6)
View more phone numbers: (b) (6)
-.::.~.:.~.:.~.::.~.:.~.:-

Subject: Re: Executive Session Discussion for NSCAI WG1

Date: Thursday, June 27, 2019 at 4:28:23 PM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6)

CC: Andrew Moore, Moore Support Staff, (b)(6), Yll Bajraktari, NSCAI Staff Member, (b)(6) Moore Support Staff, (b)(6), Michael Gable

Thanks (b) (6), this all looks good to me

On Thu, Jun 27, 2019 at 8:31 AM NSCAI Staff Member, (b)(6) wrote:

Dr. Moore,

(b) (6) and look forward to having you with us in DC tomorrow. I wanted to quickly flag for you the topics we've prepared for discussion during the executive session at the close of the afternoon (1630-1830 - *note Eric Schmidt will have to step out for another meeting from 1600-1715*). Rest assured, we'll have snacks on hand to sustain us through the executive session!

Please let us know if you want to add or adjust to any of the below, and we are happy to discuss in more detail with you at any point today or tomorrow before the meeting, at your convenience.

Executive session discussion topics:

1. **Baseline understanding of global AI research environment** - we'll present for discussion the initial results of our investigation of this question from the last working group meeting, which we sent out as a read ahead (also attached here). If we can develop a consensus interpretation of the state of the environment as a working group, we could potentially bring this to the whole group at the plenary in July.

2. **Priority research areas and tech readiness levels** - to your proposal of developing the commission's view of the desired AI future and AI capabilities, from which our group can then back-plan a research approach through consultations with the research community, we propose (b) (5)

3. **Options for federal funding of AI research** - to begin the discussion around the existing federal organization and institutions involved in the AI R&D space**,** alongside future concepts that have been proposed.

4. **Other issues to bring to plenary on 11 July** - key takeaways from the working group meeting

5. **Engagement planning and September working group meeting** – discussion and feedback on our planned stakeholder engagement through the summer and fall and discussion of approach to September working group meeting.

Happy to discuss or adjust any of the above in accordance with your preference.

Best,
(b) (6)

NSCAI Staff Member, (b)(6)
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b) (6)
(b) (6)

Subject: Invitation: [Telephone Conference] Andrew Moore/ Bob Work / Ylli Bajr... @ Mon Jul 8, 2019 12pm - 12:30pm (EDT) (^{NSCAI Staff Member, (b)(6)})

Date: Monday, July 8, 2019 at 10:48:06 AM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: ^{NSCAI Staff Member, (b)(6)}   ^{NSCAI Staff Member, (b)(6)}

Attachments: invite.ics

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Please do not edit this section of the description.

This event has a video call.
Join: (b) (6)
+(b) (6)   PIN:(b) (6)
View more phone numbers: (b) (6)

View your event at (b) (6)

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Subject: Re: NSCAI Plenary Guidance and Materials

Date: Wednesday, July 10, 2019 at 11:50:47 PM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6)

CC: Yll Bajraktari

Got it. Thanks!

On Wed, Jul 10, 2019 at 8:17 PM NSCAI Staff Member, (b)(6) wrote:

Dr. Moore,

The meet up location for those joining for the afternoon session is 12:15pm in the Juniper Hotel lobby.

I'll also not be in the morning session and have hard copy reference materials for the outbrief and working lunch, should you want to review these documents prior to midday.

Should anything come up, you can reach me at (b) (6) .

All best,
(b) (6)

On Wed, Jul 10, 2019 at 7:47 PM Yll Bajraktari <(b) (6)> wrote:

Correct. (b) (6) will coordinate with you the meet up place and time.

On Wed, Jul 10, 2019 at 7:29 PM Andrew Moore <(b) (6)> wrote:

Am I right in thinking I'll have to miss the morning session (Classified)?

If so I will spend the time on detailed scoping out of research area recommendations as per Bob's request. Where should I go to join in at the 1pm lunch?

---------- Forwarded message ---------
From: **Yll Bajraktari** <(b) (6)>
Date: Tue, Jul 9, 2019 at 1:18 PM
Subject: NSCAI Plenary Guidance and Materials
To: Eric Schmidt (b) (6) >, Robert Work <(b) (6) >, Safra Catz (b) (6) >, Steve Chien <(b) (6) >, Mignon Clyburn <(b) (6) >, Chris Darby (b) (6) >, Kenneth Ford (b) (6) >, José Marie Griffiths <(b) (6) >, Eric Horvitz <(b) (6) >, Andy Jassy, (b)(6)>, Gilman Louie <(b) (6) >, William Mark <(b) (6) >, Jason Matheny (b) (6) >, Katharina Mcfarland (b) (6) >, Andrew Moore <(b) (6) >
Cc: NSCAI Staff, (b)(6) <NSCAI Commissioners, (b)(6)>

Dear Commissioners,

We look forward to meeting on July 11, 0830-1900. NSCAI Staff Member, (b)(6) (on Commission's Staff) put together the following documents (below and via links).

1. Plenary Overview

2.   Meeting Location

3.   Agenda Link

4.   Table Package (Placemats)

5.   Sequence of Events

6.   Read Ahead Material

Agenda, logistical and read-ahead information is contained in this email message. **Dress for the plenary is business casual**.

IMPORTANT: FOR THOSE OF YOU THAT CANNOT JOIN US IN THE MORNING SESSION (UNTIL LUNCH), WE WILL PROVIDE SEPARATE BRIEFINGS IN THE NEAR FUTURE.

1.   Plenary Overview: Our second plenary convenes in order to (1) develop common understanding of the counterintelligence threat, (2) evaluate Working Group and Special Project progress, (3) present way forward for July and November interim reports to Congress, and (4) discuss a November AI Conference.

The Commission will receive briefings in the morning from the Intelligence Community, Office of Commercial and Economic Analysis, and National Security Council Staff.

At the end of our plenary, we will receive a brief from the Paulson Institute about Chinese AI engagement in the United States. This will be the last plenary with Executive Branch briefings. There may be exceptions in the future.

2.   The Commission will consider the following agenda items for decision:

(1)   The July status Report to Congress (please review prior to July 11) — The Chair and Vice Chair did staff consultations on the Hill, and they decided that the July report will be a factual status update about the establishment and organization of the Commission.   Please review and provide any substantive feedback via email or in person on Thursday. The plan is to approve this report on Thursday.

(2) Agree on the process and timeline leading to the November interim report

(3) Agree on the purpose and concept for a November AI Conference.

(4) Ways to Integrate working groups efforts going forward

2.   Meeting Location: We will meet at 0830 in the lobby of the Juniper Hotel for a short walk to the meeting venue. The Juniper hotel is located at 10050 S. De Anza Boulevard, Cupertino, California, 95014, telephone (408) 253-8900. Please contact Mike Gable ((b) (6)   ) if you have any issues on Thursday morning.

3.   Agenda: The plenary agenda can be accessed **here.**

4.   Table Package and classified documentation: The Commission staff will provide hardcopies on July 11. The following table package is provided **here** in advance for your preparation (a slide on the Public-Private Partnership Special Project will be forthcoming):

a.   Agenda Overview

b.   Mandate, Commission and Staff Face Charts

c.   Phase Slide

d.   Working Group Outbriefs

e.   Report Proposed Timeline

f.   NSCAI Interim Report Conference

5.   Sequence of Events:

 a.   Arrival: Commissioners and staff will gather at the Juniper Hotel lobby on July 11 at 0830. The day will begin with a short walk to the classified venue. Light breakfast will be available at the meeting venue.

 b.   Welcome: The Chair, Vice-Chair, and Executive director will welcome Commissioners with an overview of the day, and our objectives. The day is divided into three sessions.

c.   Morning Session: The Commission will hear from a panel discussion and receive domestic threat briefings from intelligence community and Office of Commercial and Economic Analysis. A National Security Council Staff member will brief the Administration's National Security Presidential Memorandum pertaining to AI. At the conclusion of the NSC briefing, the Commissioners and staff will move to the lunch venue. **Seating will be arranged by working group. Commissioners and staff should use the time to discuss their working group outbriefs and next steps leading to September.** At the conclusion of lunch, Commissioners and staff will proceed to the adjacent meeting space for the afternoon unclassified session.

d.   Afternoon Session: The afternoon session will consist of working group outbriefs and decisions. Commissioners and staff will be seated by working group. Working group chairs will brief their key takeaways from the last meetings, while facilitating discussion and feedback among Commissioners and staff.

Staff will brief the Commissioners on ways to get to a successful November interim report. Commissioners will be asked to weigh in on: (1) the July update report to Congress, (2) the timeline and process for our November Interim Congressional report, and (3) a November Conference. Additionally, the Chair and staff will provide a readout of our recent briefings to Senate and House Staff, and share an update on pending AI-related legislative proposals. The afternoon session concludes, followed by a 30-minute reception at the same venue.

e.   Special Presentation: Immediately following the reception, a representative of the Paulson Institute will brief the Commission about Chinese presence and engagement in the U.S. AI community. Commissioners and staff will be seated together. This event concludes Plenary 3.

6. Read-ahead material: The following readings are provided to help you prepare:

a.   China's Technology Transfer Strategy. Defense Innovation Unit. 2018

b.   Artificial Intelligence and Threats: Intelligence Advanced Research Projects Agency. 2019

c.   How do We See the Competition? Office of Commercial and Economic Analysis. 2019

Lastly, thank you for your contributions and preparation leading up to the Plenary 3. We look forward to seeing you on July 11. Should you need any assistance before then, please be in contact. We are here to serve you.

 Sincerely,

 Ylli

--
Director, Research and Analysis
National Security Commission on Artificial Intelligence
(b) (6)
(b) (6)

Subject: Re: WG1 Outbrief and Talking Points for Plenary

Date: Tuesday, July 16, 2019 at 5:01:24 PM Eastern Daylight Time

From: Andrew Moore

To: Yll Bajraktari

Perfect, and fwiw I'm on the same page.

On Tue, Jul 16, 2019 at 4:36 PM Yll Bajraktari <(b) (6)> wrote:

What do you think about the response below?

Eric,

Chiming in here from the cc line. (b) (5)

(b) (5)

(b) (5)

Happy to convene a call for us all to level on our goals and the expectations from Congress on this front, should that be of value.

Thanks to you both — your expertise here is essential to define these critical research areas.

Best,
Ylli

On Jul 16, 2019, at 2:00 PM, Yll Bajraktari <(b) (6)> wrote:

Let know what you guys think?

Begin forwarded message:

From: Yll Bajraktari <(b) (6)>

Subject: Re: WG1 Outbrief and Talking Points for Plenary
Date: July 16, 2019 at 1:55:06 PM EDT
To: Andrew Moore <(b) (6)   >

Let me draft something and run it by you first before I chime in.

> On Jul 16, 2019, at 1:51 PM, Andrew Moore
> <(b) (6)   > wrote:
>
> You've got a much better idea than I on the desires of the
> consumers of the report. (b) (5)
>
>
>
> ---------- Forwarded message ---------
> From: **Eric Horvitz** <(b) (6)   >
> Date: Fri, Jul 12, 2019 at 5:12 PM
> Subject: RE: WG1 Outbrief and Talking Points for Plenary
> To: Andrew Moore <(b) (6)   >, Eric Schmidt
> <(b) (6)   >, Bob Work <(b) (6)   >
> Cc: Andrew Moore <(b) (6)   >, NSCAI Staff Member, (b)(6)
> NSCAI Staff Member, (b)(6), Yll Bajraktari <(b) (6)   >,
> NSCAI Staff Member, (b)(6), Michael Gable
> <(b) (6)   >
>
>
> Thanks Andrew.
>
>
> Andrew, Eric—and Bob:
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Thoughts?

Eric

From: Andrew Moore (b) (6)
Sent: Friday, July 12, 2019 11:21 AM
To: Eric Horvitz <(b) (6)   >
Cc: Andrew Moore <(b) (6)   >; Bob Work
<(b) (6)   >; NSCAI Staff Member, (b)(6)
<NSCAI Staff Member, (b)(6)   >; Eric Schmidt <(b) (6)   >;
Yll Bajraktari <(b) (6)   >; NSCAI Staff Member, (b)(6)
<NSCAI Staff Member, (b)(6)   >; Michael Gable <(b) (6)   >
Subject: Re: WG1 Outbrief and Talking Points for Plenary

I'd be happy to do so but I need Yll's guidance. (b) (5)

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On Thu, Jul 11, 2019 at 4:23 PM Eric Horvitz
<(b) (6)   > wrote:

> Here's the proposed Area 7, sent in a separate email
> message earlier today:
>
> -------
>
> All,
>
>   I had meant to add a potential seventh area for
> investigation on our initial areas identified for
> investments in AI. As these are intriguing areas for
> competition, competitive edge for national security
> (and economy), I'll include several sample directions
> and papers. Worth taking a look at the abstracts, if not
> the papers:
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From: Eric Horvitz
Sent: Thursday, July 11, 2019 3:26 PM
To: Andrew Moore <(b) (6)>; Bob Work
<(b) (6)>
Cc: NSCAI Staff Member, (b)(6); Eric
Schmidt <(b) (6)>; Andrew Moore
<(b) (6)>; Yll Bajraktari <(b) (6)>;
NSCAI Staff Member, (b)(6); Michael Gable
<(b) (6)>
Subject: Re: WG1 Outbrief and Talking Points for
Plenary

Thoughts about adding Area 7?

From: Andrew Moore <(b) (6)>
Sent: Thursday, July 11, 2019 7:43:27 PM
To: Eric Horvitz <(b) (6)>; Bob Work
<(b) (6)>
Cc: NSCAI Staff Member, (b)(6); Eric
Schmidt <(b) (6)>; Andrew Moore
<(b) (6)>; Yll Bajraktari <(b) (6)>;
NSCAI Staff Member, (b)(6); Michael Gable
<(b) (6)>
Subject: Re: WG1 Outbrief and Talking Points for
Plenary

Oops. Adding Bob.

On Thu, Jul 11, 2019 at 11:42 AM Andrew Moore
<(b) (6)> wrote:

taking out addresses of non-NSCAI folks

Folks,

I have takes the liberty of taking the basic research areas, expanding them a little, including EricH's excellent descriptions (and adding in a couple of cases) and putting them in this sheet:

(b) (5)

(b) (5)

Please feel welcome to add, alter or subtract from this as you wish, and/or leave comments.

Thanks!

Andrew

On Wed, Jul 10, 2019 at 12:31 AM Eric Horvitz <(b) (6)   > wrote:

Thanks (b) (6), and sorry that I will not be able to join per my responsibilities at an annual technical advisory board event at our Microsoft Research Lab in Cambridge, UK.

Thanks for putting together the slide.

Thanks also for the notes you had put together and distributed from the last meeting. A few comments and edits on the list we started to grow on "a proposed prioritization of the initial areas identified." You had captured the following directions of investment:

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5. (b) (5) █████████
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6. (b) (5) ████████
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Here are some edits, updates, and expansions that hopefully will help others to understand our discussion:

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(b) (5)

Hope this is useful,
  Thanks,
    Eric

(b) (5)

😊.

From: NSCAI Staff Member, (b)(6)
Sent: Tuesday, July 9, 2019 1:52 PM
To: Andrew Moore <(b) (6)>; Eric Horvitz <(b) (6); Eric Schmidt (b) (6)>; Andrew Moore <(b) (6)>
Cc: Yll Bajraktari <(b) (6)>; NSCAI Staff Member, (b)(6) <NSCAI Staff Member, (b)(6)>; Michael Gable <(b) (6)>; Schmidt Support Staff, (b)(6); Schmidt Support Staff, (b)(6); Moore Support Staff, (b)(6); Moore Support Staff, (b)(6); Horvitz Support Staff, (b)(6); Horvitz Support Staff, (b)(6); (b) (6) Schmidt Support Staff, (b)(6)
Subject: WG1 Outbrief and Talking Points for Plenary

Dr. Moore, Dr. Schmidt, Dr. Horvitz,

Ahead of Thursday's plenary session, please find attached the slide we've prepared to brief the full commission on WG1's meeting on 28 June. Also attached are some draft talking points to assist you, Dr. Moore, as you prepare for the briefing.

(b) (6) and I standby to provide any necessary adjustments or additional information, as required.

In addition, we look forward to our working lunch on Thursday, which we'd like to use to begin a discussion around the strengths/weaknesses/considerations of the primary federally-funded organizations involved in AI research as well as some of the new configurations that have been proposed to help foster the level of innovation necessary to maintain US leadership and strengthen national security.

We will also plan to briefly talk through initial ideas around our WG's contributions to the interim report and the timeline and engagement plan for the commission's work through the end of this calendar year.

All best,

(b) (6)

NSCAI Staff Member, (b)(6)

Director, Research and Analysis
National Security Commission on Artificial Intelligence

(b) (6)

(b) (6)

Subject: Accepted: AI and Data with Andrew Moore @ Thu Aug 1, 2019 11:30am - 12pm (EDT)
(NSCAI Staff Member, (b)(6))

Date: Tuesday, July 30, 2019 at 3:52:42 PM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: NSCAI Staff Member, (b)(6)

Attachments: invite.ics

Conference call with Dr. Andrew Moore to gain insights and suggestions for a one-day workshop on September 18 at NSCAI focused on AI and data in support of the Commission's Special Project - AI Data.

(b) (6) (Toll Free)
    Participant Passcode: (b) (6)
    Leader Passcode:(b) (6)

Attachments: (predecisional materials for internal NSCAI use only)
 Draft invitation letter to workshop - provided here for context
Emerging beliefs regarding AI and data - suggested to help frame the workshop

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Please do not edit this section of the description.

This event has a video call.
Join:(b) (6)
+(b) (6)   PIN:(b) (6)
View more phone numbers: (b) (6)
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Subject: AI and Data with Andrew Moore

Date: Thursday, August 1, 2019 at 11:35:43 AM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: Moore Support Staff, (b)(6), NSCAI Staff Member, (b)(6) NSCAI Staff Member, (b)(6) Andrew Moore, (b)(6), Andrew Moore, (b)(6)

I'm on the vc bridge but not seeing anyone else

AI and Data with Andrew Moore

Conference call with Dr. Andrew Moore to gain insights and suggestions for a one-day workshop on September 18 at NSCAI focused on AI and data in support of the Commission's Special Project - AI Data.

(b) (6) (Toll Free)
Participant Passcode: (b) (6)
Leader Passcode: (b) (6)

Attachments: (predecisional materials for internal NSCAI use only)

- Draft invitation letter to workshop - provided here for context
- Emerging beliefs regarding AI and data - suggested to help frame the workshop

When	Thu Aug 1, 2019 11:30 – 12:00 Eastern Time - New York
Where	(b) (6) ; Passcode (b) (6) , (b) (6) (map)
Joining info	(b) (6)
	Or dial: +(b) (6) PIN: (b) (6) (b) (6)
Who	• NSCAI Staff Member, (b)(6) - organizer
	• NSCAI Staff Member, (b)(6)
	• Andrew Moore
	• Staff
	• Moore Support Staff, (b)(6)
	• Andrew Moore
Attachments	AI Data Workshop - invitation template - 20190730.docx
	SP3 AI Data - Beliefs - 201900729.docx

Subject: Re:

Date: Tuesday, August 6, 2019 at 11:28:38 AM Eastern Daylight Time

From: Andrew Moore

To: NSCAI Staff Member, (b)(6)

CC: Moore Support Staff, (b)(6) Andrew Moore, Yll Bajraktari, Michael Gable, NSCAI Staff Member, (b)(6), NSCAI Staff Member, (b)(6)

P.S. (b) (6) is: (b) (6) <(b) (6)>

On Tue, Aug 6, 2019 at 11:28 AM Andrew Moore <(b) (6)> wrote:
> inline
>
>> On Mon, Aug 5, 2019 at 5:17 PM NSCAI Staff Member, (b)(6) wrote:
>> Andrew,
>>
>> Thanks again for taking time last Thursday to provide thoughts and directions related to AI data and infrastructure. As per your request, I am follow up to ask for two specific points of contact (as we look to invite speakers and participants to the AI data and infrastructure workshop at NSCAI on September 18):
>>
>> 1. Google's BitQuery project - encryption at rest
>>
>> (b) (6) (Google storage generally, including BigQuery)
>>
>> 1. the researcher (from either CLA or USC) working on a data fabric
>>
>> (b) (6)
>>
>> Much appreciated,
>> (b) (6)
>>
>> *This message is private and may contain confidential information or other matter otherwise protected from disclosure. If you are not the intended recipient, please telephone or email the sender and delete this message and any attachment from your system; you must not copy or disclose the contents of this message or any attachment to any other person. Transmission of any material prepared by a third-party should not be construed to constitute an endorsement of that material or any analysis or commentary therein by the NSCAI.*

Subject:	Accepted: NSCAI WG1 Check In @ Fri Aug 16, 2019 11am - 11:30am (EDT) (NSCAI Staff Member, (b)(6))
Date:	Tuesday, August 13, 2019 at 10:35:03 AM Eastern Daylight Time
From:	Google Calendar on behalf of Andrew Moore
To:	NSCAI Staff Member, (b)(6)
Attachments:	invite.ics

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Please do not edit this section of the description.

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Join: (b) (6)
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View more phone numbers: (b) (6)
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Subject: Re: [EXTERNAL] NSCAI Research Priorities Matrix

Date: Saturday, August 24, 2019 at 4:38:28 PM Eastern Daylight Time

From: Andrew Moore

To: Steve Chien

CC: Andrew Moore, Eric Schmidt, Eric Horvitz, Safra Catz, Katharina Mcfarland, Kenneth Ford, José Marie Griffiths, Mignon Clyburn, Robert Work, Darby, Chris, Jason Matheny, Gilman Louie, Andy Jassy, (b)(6), William Mark, Yll Bajraktari, NSCAI Staff, (b)(6), NSCAI Commissioners, (b)(6)

Thanks Steve. I agree with adding (b) (5). Made sure everyone has edit access to update and comment as they see fit.

Steve, I'll sidebar with you and then we can add in the appropriate rows and columns

On Sat, Aug 24, 2019 at 2:30 PM Steve Chien <(b) (6)> wrote:

Andrew,

(b) (5)

I'm likely to not be able to attend the 4 Sep telecon (DARPA program kickoff conflict).

--S

On 8/22/19 11:15 AM, Andrew Moore wrote:

Fellow Commissioners,

I value your input and recommendations on the national security AI research priorities matrix Working Group 1 has been developing. The goal of this product is to define the research areas the federal government should prioritize in order to maintain our national security competitiveness, and map these research areas to the capabilities they will enable.

In order to facilitate timely discussion on this effort to inform our interim report, I will convene a call on Wednesday, **September 4th** from **10:00-11:00am ET** in order to gain feedback from any among you interested to provide it. Please find the call in details below. Happy also to accept input via email.

The staff will help consolidate and integrate your input as well as that of select SGEs in time for consideration at the next Working Group 1 meeting in late September. This will help us bring a more deliberate and considered assessment forward to the October plenary meeting.
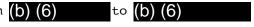
All best,
Andrew

Call in
Google Hangouts: (b) (6)
Phone: +(b) (6) , PIN: (b) (6)

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--
Please note: The JPL email domain is changing from (b) (6) to (b) (6)
at an unspecified date.
Please contact me at (b) (6) (you can start using this addres
s right now).

Steve Chien, Ph.D.
Senior Research Scientist, Autonomous Space Systems
Technical Group Supervisor, Artificial Intelligence Group

Jet Propulsion Laboratory, MS 301-260   tel: +1 (b) (6)
4800 Oak Grove Drive   fax: +1 (b) (6)
Pasadena, CA 91109-8099, USA
(b) (6)

Subject: Accepted: Research Priorities Matrix Call w/NSCAI Commissioners @ Wed Sep 4, 2019 10am - 11am (EDT) NSCAI Staff Member, (b)(6)

Date: Thursday, August 29, 2019 at 3:52:30 PM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: NSCAI Staff Member, (b)(6)

Attachments: invite.ics

Team,

Andrew Moore would like to set up a call to get feedback from other commissioners on the nat sec AI research priorities matrix he's put together. Ref:

(b) (5)

More details to follow.

Best,

(b) (6)

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Please do not edit this section of the description.

This event has a video call.
Join: (b) (6)
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Subject: Accepted: NSCAI WG1 Meeting @ Thu Sep 26, 2019 12pm - 4pm (EDT) (NSCAI Staff Member, (b)(6))

Date: Tuesday, September 10, 2019 at 5:35:04 PM Eastern Daylight Time

From: Google Calendar on behalf of Andrew Moore

To: NSCAI Staff Member, (b)(6)

Attachments: invite.ics

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