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(NSCAI) Commission and Subcommittee Meeting Minutes

2019-2020

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FOIA.gov

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September 15, 2020

Re: NSCAI-FOIA-2020-009

VIA EMAIL

The National Security Commission on Artificial Intelligence (NSCAI) has completed processing of your Freedom of Information Act (FOIA) request dated June 2, 2020—assigned processing number NSCAI-FOIA-2020-009. We have determined that the cost for processing your request amounts to less than \$25, so we have waived the associated fees. As a result, the responsive records to your request have been attached.

NSCAI identified 72 records as responsive to your request. 2 records are Department of Defense (DoD) records. These records have been referred to the DoD for direct response to you. In addition, 1 record is an NSCAI record, but may contain DoD information. NSCAI has asked the DoD to review this record and requested that it be returned to NSCAI with any appropriate redactions. After receiving this record back from DoD, we will release it to you.

Today, NSCAI is producing 69 records responsive to your request. The records in this production include the agendas and summaries of conclusions (SOC) for NSCAI Commission and Subcommittee meetings. For your reference, the SOCs are NSCAI's staff notes summarizing the meetings and we thus determined these documents to be responsive to your request. Please see the attached Vaughn Index for information about the redactions in the records produced to you today, which NSCAI has applied in accordance with applicable FOIA exemptions.

If you have any questions about these records or the FOIA process in general, please contact our FOIA Public Liaison at FOIAPublic Liaison@nscai.gov.

Sincerely,

Sarah Johnson NSCAI FOIA Officer (703) 614-6386 FOIA@nscai.gov

FOIA REQUEST NUMBER - NSCAI-FOIA-2020-009 VAUGHN INDEX

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000005	190426 WG2 Agenda	Agenda	4/26/2019	1		Redacted and Released		(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted potential questions for discussion at classified briefings. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5
NSCAI-FOIA-2020-009-000006-7	190426 WG2 SOC	Memo	04/26/2019	2		Redacted and Released		(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the record contains predecisional and deliberative Commission staff impressions, future focus areas of research, and proposed next steps for the Working Group. In addition, some information was pre-decisional and may have changed over time before it became final. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The NSCAI staff or Commissioner support staff names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000008	190507 SP1 Agenda	Agenda	5/7/2019	1		Redacted and Released		(b)(6): The names of briefers, NSCAI staff, and Commissioner support staff protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000009-11	190507 SP1 SOC	Memo	5/7/2019	3		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000012	190507 WG5 Agenda	Agenda	5/7/2019	1		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted topic descriptions and potential questions for discussion at classified briefings. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and room information protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000013-14	190507 WG5 SOC	Memo	5/7/2019	2	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The staff member names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000015	190508 WG1 Agenda	Agenda	05/08/2019	1	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff developed topics for discussion to guide a Working Group meeting. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000016-17	190508 WG1 SOC	Memo	05/08/2019	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting and its work leading up to the Commissions Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.

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NSCAI-FOIA-2020-009-000018-20	190517 WG4 Agenda	Agenda	05/17/2019	3		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative descriptions of unconfirmed speakers that ultimately did not attend the meeting. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The conference call information protected in this document does not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion
NSCAI-FOIA-2020-009-000021-23	190517 WG4 SOC	Memo	05/17/2019	3		Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the record contains predecisional and deliberative Commission Working Group impressions, future focus areas of research, and proposed next steps. In addition, some information was pre-decisional and may have changed over time before it became final. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000025-26	190520 Plenary 2 SOC	Memo	5/20/2019	2		Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the record contains predecisional and deliberative Commission impressions, future focus areas of research, and proposed next steps. In addition, some information was predecisional and changed overtime before it became final. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000027-30	190607 WG3 Agenda	Agenda	06/07/2019	4	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency records that are deliberative in nature and are part of the agency's internal decision-making process. In this instance, the protected information contains pre-decisional and deliberative Commission staff developed proposed topics for discussion as well as the name of a proposed speaker who did not ultimately attend. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and conference link/phone number dial instructions protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000031-33	190607 WG3 SOC	Memo	06/07/2019	3		Redacted and Released		(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the record contains predecisional and deliberative Commission staff impressions, future focus areas of research, and proposed next steps from a Working Group-level meeting. In addition, some information was pre-decisional and may have changed over time before it became final. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by
NSCAI-FOIA-2020-009-000034-35	190611 WG2 SOC	Memo	06/11/2019	2	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the record contains predecisional and deliberative Commission Working Group impressions, future focus areas of research, and proposed next steps. In addition, some information was pre-decisional and may have changed over time before it became final. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The NSCAI staff or Commissioner support staff names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000036	190620 WG4 Agenda	Agenda	6/20/2019	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The meeting location information, as well as the names of NSCAI staff member and private individuals protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000037-38	190620 WG4 SOC	Memo	6/20/2019	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting to inform its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000039	190628 WG1 Agenda	Agenda	6/28/2019	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The room numbers, NSCAI staff names, and third party personnel names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000040-41	190628 WG1 SOC	Memo	06/28/2019	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000044	190909 WG2 Agenda	Agenda	9/9/2019	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The room numbers for meetings, as well as the name of a private individual protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000045-46	190909 WG2 SOC	Memo	09/09/2019	2	NSCAI	Redacted and Released	(b)(6)	(b)(6): The Commissioner support staff name protected in this document does not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000047-49	190909 WG3 Agenda	Agenda	09/09/2019	3		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information are pre-decisional and deliberative Commission staff developed questions for discussion in a draft agenda. The deliberative material was meant to assist Commissioners in this Working Group to prepare and consider issues or focus areas of importance and inform their assessment of workforce issues in the Interim Report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and conference link/phone number dial instructions protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000052	190916 WG4 Agenda	Agenda	9/16/2019	1		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted topic descriptions and potential questions for discussion at a classified briefing. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and address protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000053-55	190916 WG4 3 SOC	Memo	9/16/2019	3		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and titles of speakers who agreed to speak under an expectation of confidentiality protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000056	190917 WG4-SP1 Agenda	Agenda	9/17/2019	1		Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted potential questions for discussion. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and room locations protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000057-58	190917 WG4-SP1 SOC	Memo	9/17/2019	2	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group and Special Project joint meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names and titles of speakers who agreed to speak under an expectation of confidentiality protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000059	190926 WG1 Agenda	Agenda	09/26/2019	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The meeting link information, as well as the NSCAI staff names, and third party personnel names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000060-61	190926 WG1 SOC	Memo	9/26/2019	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Working Group meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000062-64	191010 Ethics SP Agenda	Agenda	10/10/2019	3		Redacted and Released	(b)(6)	(b)(6): The room and meeting link information, as well as the NSCAI staff names, and third party personnel names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000065-67	191010 Ethics SP SOC	Memo	10/10/2019	3	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Special Project meeting and its work leading up to the Commission's Interim Report. Some of the impressions relate to ongoing Commission staff work and/or ideas that did not reach completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000068-70	191024 Plenary 4 Agenda	Agenda	10/24/2019	3	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative potential conference speakers that were unable to attend the conference. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000071-72	191212 Ethics SP Agenda	Agenda	12/12/2019	2		Redacted and Released	(b)(6)	(b)(6): The room and meeting link information, as well as the NSCAI staff names, and third party personnel names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000073-75	191212 Ethics SP SOC	Memo	12/12/2019	3	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Special Project meeting and its work. Some of the impressions relate to ongoing Commission staff work and/or ideas that has not yet reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The meeting location protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000076	200115 Plenary 5 Agenda	Agenda	1/15/2020	1	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is the name of a Commission meeting attendee who did not ultimately attend. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The meeting location information and NSCAI staff names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000077-78	200218 WG3 Agenda	Agenda	02/18/2020	2	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff developed topics for discussion to guide a Working Group meeting. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The staff and speaker names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000079-80	200218 WG3 SOC	Memo	02/18/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the record contains predecisional and deliberative Commission Working Group impressions, future focus areas of research, and proposed next steps. In addition, some information was pre-decisional and may have changed over time before it became final. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000081	200220 LOE6 Agenda	Agenda	02/20/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The conference link/phone number dial instructions protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000082-83	200220 LOE6 SOC	Memo	02/20/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work towards developing Q1 Recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that has not yet reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000084-87	200224 LOE1 Agenda	Agenda	2/24/2020	4	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted topic descriptions and potential questions for a Working Group meeting. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000088-89	200224 LOE1 SOC	Memo	02/25/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000090	200225 LOE5 Agenda	Agenda	02/25/2020	1	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff developed topics for discussion to guide a Line of Effort meeting as well as a topic description of an interagency classified briefing. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000091	200225 LOE5 SOC	Memo	02/25/2020	1	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000092	200226 LOE4 Agenda	Agenda	2/26/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000095	200228 LOE2 Agenda	Agenda	02/28/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The meeting location information and NSCAI staff names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000098	200317 Plenary 6 Agenda	Agenda	3/17/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The conference link/phone number dial instructions protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000100	200407 LOE1 SOC	Memo	04/07/2020	1	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000101-102	200407 LOE2 SOC	Memo	04/07/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000103	200413 LOE3 Agenda	Agenda	4/13/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The staff and speaker names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000104-105	200413 LOE3 SOC	Memo	04/13/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000106	200507 LOE1-LOE2 Agenda	Agenda	5/7/2020	1	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted guiding questions for a joint meeting between two Lines of Effort. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000107-108	200507 LOE1-LOE2 SOC	Memo	05/07/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a joint meeting between two Commission Lines of Effort and their work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000109	200515 LOE6 Agenda	Agenda	05/15/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The conference link/phone number dial instructions and NSCAI Staff names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000110-111	200515 LOE6 SOC	Memo	05/15/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000112	200519 LOE2 Agenda	Agenda	05/19/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The NSCAI staff names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000113-114	200519 LOE2 SOC	Memo	05/19/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000115	200520 LOE1 Agenda	Agenda	5/20/2020	1	NSCAI	Redacted and Released	(b)(6)	(b)(6): The meeting link information, as well as the NSCAI staff names, and third party personnel names protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000116-117	200520 LOE1 SOC	Memo	05/20/2020	2	NSCAI	Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000118	200526 LOE4 Agenda	Agenda	5/26/2020	1	NSCAI	Redacted and Released	(b)(5); (b)(6)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted potential topics for future research. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5. (b)(6): The staff names, as well as the names and titles of speakers who agreed to speak under an expectation of confidentiality protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.

Bates Numbers	Document Name	Document Type	Document Date	Number of Pages	Agency	Disposition	Applicable FOIA Exemption(s)	Explanation of Exemption(s)
NSCAI-FOIA-2020-009-000119-121	200526 LOE4 SOC	Memo	5/26/2020	3		Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.
NSCAI-FOIA-2020-009-000122	200528 LOE5 Agenda	Agenda	05/28/2020	1		Redacted and Released	(b)(6)	(b)(6): The names of NSCAI staff and private individuals protected in this document do not contribute to the public's understanding of governmental activities and functions and the release of this information would constitute an invasion of privacy interests.
NSCAI-FOIA-2020-009-000123-124	200528 LOE5 SOC	Memo	05/28/2020	2		Redacted and Released	(b)(5)	(b)(5): The Deliberative Process Privilege protects from release agency information that is deliberative in nature and is part of the agency's internal decision-making process. In this instance, the redacted information is pre-decisional and deliberative Commission staff drafted impressions, takeaways, and next steps related to a Commission Line of Effort meeting and its work leading up to proposed recommendations. Some of the impressions relate to ongoing Commission staff work and/or ideas that have not reached completion for the purposes of a full Commission report. It is reasonably foreseeable that disclosure of this predecisional and deliberative agency information would chill open and frank discussions by federal government employees and could cause public confusion thereby harming an interest protected by Exemption 5.

National Security Commission on Artificial Intelligence

Agenda for Al Orientation Seminar

Date: Monday, March 11, 2019, 0830-1730 Location: Center for Naval Analyses (CNA), 3003 Washington Blvd, Arlington, VA 22201

0830 - 0900 Light Breakfast and Coffee

Please arrive by 0845 at the latest to allow time to check in at the front desk and be ready to start by 0900.

0900 - 0915 Welcome Remarks

Speakers: Dr. Eric Schmidt, Commission Chairman

Hon. Bob Work, Commission Vice-Chairman

Mr. Ylli Bajraktari, Commission Executive Director (Admin Notes)

0910 - 0930 Introductions

0930 - 1000 Session One: [Unclassified] Threat Briefing from the IC

Speaker (confirmed): **Dr. Jeff Alstott**, Vice-Chair of the IC's Al Working Group / IARPA Program Manager for Al R&D / Co-Chair of the White House Al R&D Strategy

1000 – 1030 Session Two: [Unclassified] The National Security Strategy and The National Defense Strategy

Speakers (confirmed): **Dr. Frank Hoffman**, Distinguished Research Fellow, Center for Strategic Research, NDU and **Mr. Elbridge Colby**, former Deputy Assistant Secretary of Defense for Strategy who led the NDS team

1030 - 1045 Break

1045 - 1130 Session Three: [Unclassified] DoD Al Strategy & Establishing the Joint Artificial Intelligence Center (JAIC)

Speakers (confirmed): Lt Gen John N.T. Shanahan, Director of the JAIC and Col Drew Cukor, Project Mayen, and Mr. Brendan McCord

1130 - 1145 Session Four: [Unclassified] Defense Innovation Board

Speaker (confirmed): Mr. Joshua Marcuse, Executive Director, Defense Innovation Board

1145 - 1215 Session Five: [Unclassified] DARPA's "Al Next" Campaign

Speakers (confirmed): Dr. Steve Walker, Director of DARPA, and Dr. Peter Highnam, Deputy Director of DARPA

1215 - 1245 Lunch Break

1245 - 1330 Session Six: [Unclassified] The View from the Hill

1330 - 1400 Session Seven: [Unclassified] The View from the Commerce Department & Export Controls

Speaker: (confirmed) Ms. Nazak Nikakhtar, Assistant Secretary, Industry & Analysis, Performing the Non-Exclusive Duties of the Under Secretary for Industry and Security, United States Department of Commerce

1400 - 1430 Session Eight: [Unclassified] Lessons from Past Commissions - How to Maximize Impact

Speakers (confirmed): Dr. Jordan Tama, American University and Dr. Christopher Kirchhoff, Schmidt Futures

1430 - 1500 Break

1500 - 1530 *Commissioners and Staff Only*

Session Nine: Commission Administrative Progress & Next Steps Speakers: Mr. Ylli Bajraktari, Commission Executive Director, and Mr. Mike Gable, Commission Chief of Staff

1530 - 1700 *Commissioners and Staff Only*

Working Session

Moderators: Dr. Eric Schmidt, Commission Chairman
Hon. Bob Work, Commission Vice-Chairman

1700 - 1730 Wrap Up

Moderators: Dr. Eric Schmidt, Commission Chairman
Hon. Bob Work, Commission Vice-Chairman

1730 - 1830 Reception at same location

NATIONAL SECURITY COMMISSION ON ARTIFICIAL INTELLIGENCE ARLINGTON, VA 22202

Plenary Session #1, March 11, 2019 Summary of Discussion and Conclusions

The Commission chair and Vice-chair:

- Stated that the objective for the first plenary session was to decide what the commissioners want to do, and to develop the operating plan and responsibilities.
- Stressed that the commission needs the voice and views of all of the commissioners.
- Emphasized that the Commission must do more than describe, complain, and report. It should focus on legislation, policy, and outreach opportunities to advance the agenda.
- Until such time as the Commission is able to form its recommendations and positions, asked that when commissioners speak publicly on AI they make clear they are speaking in their private capacity, if appropriate.

Commissioners received briefs on: AI threats, the National Defense Strategy, the role of Congress, the Defense Department's AI organization, DARPA's AI research, export controls, and best practices from past commissions. (See detailed notes and slides attached.)

Commissioners agreed:

- To meet every other month in plenary session for a full day. Commissioners' attendance is expected. A designee may attend provided they are adequately prepared and serve in a non-voting capacity.
- To establish five working groups structured around broad categories that will meet
 monthly. Each WG will have three commissioners, two permanent staff, and an outside
 subject matter expert. WG's include: 1) AI research, 2) national security applications for
 AI, 3) AI for the betterment of citizens and the economy; 4) preparing citizens and the
 workforce for AI; and 5) ensuring international competitiveness and cooperation in AI.
- All meetings should rotate locations to maximize convenience for commissioners and allow the Commission to engage with AI communities around the country.
- The principle of inclusivity applies to all commission meetings--all Commission members and staff are welcome at any Commission meeting.
- The final report will include both an unclassified and classified portion.

Commissioners noted several additional themes to incorporate into the Commission's work:

What China is doing.

- The challenge of making Americans "Al optimists."
- The relationship between AI and other emerging fields such as synthetic biology.
- The importance of analyzing the role AI can play in enhancing fairness and justice.

Commission staff will:

- Work to expedite TS/SCI clearances for the next plenary.
- Explore potential use of a group messaging system.
- Advise on options for cloud-based document storage.
- Provide regular media guidance to commissioners.
- Develop a congressional engagement strategy.
- Provide official email accounts for conducting Commission business.

Attached

- TAB 2. Attendance List
- TAB 3. Detailed Discussion notes from Plenary
- TAB 4, IARPA Threat Briefing
- TAB 5. National Defense Strategy Summary
- TAB 6. Memo on lessons from past commissions
- TAB 7. The AIM Strategy A Strategy for Augmenting Intelligence Using Machines
- TAB 8. Sub-Working Groups Proposed Topics



Working Group on Maintaining Global Leadership in National Security Al Application Meeting Agenda

Friday, April 26, 2019, 0830-1730 Location: MITRE Corp. Building 3 (T), 7594 Colshire Drive, McLean, VA 22102

0830 - 0900 Light Breakfast and Coffee

Arrival and check in; SCI read-in for Commissioners

0900 - 0915 Welcome Remarks

Speakers: Yll Bajraktari, NSCAI Executive Director

0915 - 1115 Session One: [Classified] Deep Dive Briefing from the IC

Speakers: Intelligence Community Representatives

Questions: (b) (5)

1115 – 1200 Session Two: [Classified] The National Defense Strategy (NDS) Overview and Implementation

Speakers: Representatives from the Department of Defense NDS drafting and implementation team

1200 - 1215 Break

1215 - 1330 Working Lunch: Session Three [Classified] DoD AI Strategy & Establishing the Joint Artificial Intelligence Center (JAIC)

Speakers: Lt Gen John N.T. Shanahan, Director of the JAIC, Col Drew Cukor, Project Maven

1330 - 1415 Session Four: [Classified] DARPA's "AI Next" Campaign

Speakers: Dr. Peter Highnam, Deputy Director of DARPA

1415 – 1500 Session Five: [Classified] IC Strategy for Augmenting Intelligence Using Machines

Speakers: Dean Souleles, Chief Technology Advisor, ODNI, Ingrid Solis, ODNI AIM Lead

1500 - 1700 Executive Time - Next Steps

Objective: Identify issues to move to the Plenary in May and hard questions that the working group should focus on going forward



Working Group on Maintaining Global Leadership in National Security AI Application

Summary of Conclusions Working Group Meeting Friday, April 26, 2019, 0830-1730

Working Group Objective: Identify concrete steps that the U.S. can take to maintain its global leadership in Artificial Intelligence (AI)/Machine Learning (ML) application relevant to U.S. national security and defense.

Working Group Approach: Through a comprehensive assessment and analysis of the current state of U.S. national security and defense AI applications and the global AI threat environment, develop recommendations to maintain U.S. leadership in the field, to include:

- 1. National security organization, policy, and governance
- 2. Acquisition and application processes and mechanisms
- 3. Funding and resource requirements

Meeting Objective: Gain a baseline of the current state of AI application for national security by the U.S. and key near-peer nations to develop a foundation for subsequent investigation.

Commissioners in attendance:

- Safra Catz, Chair
- Katharina McFarland
- (b) (6) (rep for Andy Jassy)
- (b) (6) (rep for Steve Chien)
- Jason Matheny (from 1 PM)

Commissioners received briefs on: The AI threat environment, the National Defense Strategy, the Department of Defense Joint Artificial Intelligence Center (JAIC) and Project Maven, DARPA's AI Next Campaign, and the IC Strategy for Augmenting Intelligence Using Machines.

Commissioners agreed:

- (b) (5)
- (b) (5)
- To hold additional working group meetings with key U.S. government stakeholders, with a near-term focus on the defense and intelligence communities.
- To hold full-day working group meetings going forward in order to maximize Commissioner time and minimize travel requirements.

Commissioners	noted several	additional	themes	to incorporate	into the (Commission's
work:						

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The Commission Staff will:

- Prepare a framework outlining the working group's approach for Commissioners to
 present at the Plenary Session on May 20th. (Action: Action: Action)
 Action: Action of Act
- Identify future briefers and organize the next working group meeting in the June timeframe. (Action: NSCAI Staff Member, 103/6) / NSCAI Staff Member, 103/6) by May 14th, 2019)
- Establish a library of current U.S. government policy documents on AI. (Action: by May 31th, 2019)

WORKING GROUP 3:

Public-Private Partnerships for Prosperity and Security

WORKING GROUP 3 MEETING

Tuesday, May 7, 2019, 0900-1700 Embassy Suites by Hilton Santa Clara Silicon Valley Ambassador Room (2nd Floor) 2885 Lakeside Drive, Santa Clara, CA, 95054

PURPOSE

- Assess the relationship between DoD and Silicon Valley.
- Identify options for improving cooperation between DoD and Silicon Valley to increase citizens' well-being, strengthen the nation's entrepreneurial ecosystems, and protect national security.

ATTENDEES

COMMISSIONERS

- · Mignon Clyburn, Working Group Chair
- Steve Chien
- (b) (6) (on behalf of Andy Jassy)

MODERATOR

· Brendan McCord

STAFF

· Michael Gable, (b) (6)

DESIRED OUTCOMES

1500-1700

EXECUTIVE TIME - NEXT STEPS

- · Identify issues to raise at the Plenary in May.
- Identify follow-on issues to focus on through a special project on public-private partnerships.



	AT A MARKET VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIEW
AGENDA	
0900-0915	WELCOME REMARKS
	Speakers: Michael Gable, NSCAI Chief of Staff, and (b) (6), NSCAI Director for Research and Analysis
0915-1000	BACKGROUND BRIEFING ON DOD RELATIONS WITH SILICON VALLEY
	Speaker: Brendan McCord, Moderator and President of Tulco Labs
1000-1030	EXECUTIVE TIME
1030-1200	SESSION ONE: HOW SHOULD DOD IMPROVE COOPERATION ON AI?
	Participants: Stuart Russell (Berkeley), (b) (6) (Centre for Effective Altruism), Trae Stephens (Anduril) Questions: How should DoD work on Al with the private sector and NGOs to improve citizens' well-being? What are the biggest obstacles to cooperating with DoD on Al? How can they be overcome?
1200-1315	WORKING LUNCH
	Speaker: Raj Shah, Co-Founder of ARCEO.Al and former Managing Partner of the Defense Innovation Unit (DIU)
1315-1330	EXECUTIVE TIME
1330-1500	SESSION TWO: EXPANDING DOD COOPERATION WITH SILICON VALLEY ON AI
	Participants: Ed Abbo (C3 IoT), Steve Bowsher (In-Q-Tel), James Cross (Franklin Templeton), Neil Jacobstein (Singularity U), Anthony Robbins (NVIDIA), Tom Siebel (C3 IoT) Questions: • How can DoD strengthen the nation's entrepreneurial ecosystems? • Why do tech companies choose to work with or avoid DoD? NSCAI-FOIA-2020-009-000008

Working Group on Public-Private Partnerships for Prosperity and Security

Summary of Conclusions Working Group Meeting Tuesday, May 7, 2019, 0900-1630 Santa Clara, CA

Working Group Objective: Assess the relationship between the National Security Innovation Base (NSIB) and the Department of Defense (DoD). Identify options for improving cooperation between NSIB and DoD to increase the well-being of our citizens, strengthen the nation's entrepreneurial ecosystems, and protect the nation's security.

Working Group Approach: Through a comprehensive analysis of the U.S. National Security Innovation Base's Al efforts, develop recommendations to:

- Identify a focal point for AI cooperation between DoD, private sector, NGOs, and academia
- Design incentives and regulatory regimes to promote bold, purpose-driven, and democratic applications of AI to national security
- Develop an end-to-end vision for DoD's AI transformation and enable companies to scale AI solutions across the Department
- Strengthen entrepreneurial ecosystems nationwide for AI development and application

Meeting Objective:

Assess DoD's relationship with National Security Innovation Base (NSIB) in Silicon Valley by asking the following questions:

- How should DoD work on AI with the private sector and NGOs to improve citizens' well-being?
- What are the biggest obstacles to cooperating with DoD on AI? How can they be overcome?
- How can DoD strengthen the nation's entrepreneurial ecosystems?
- Why do tech companies choose to work with or avoid DoD?

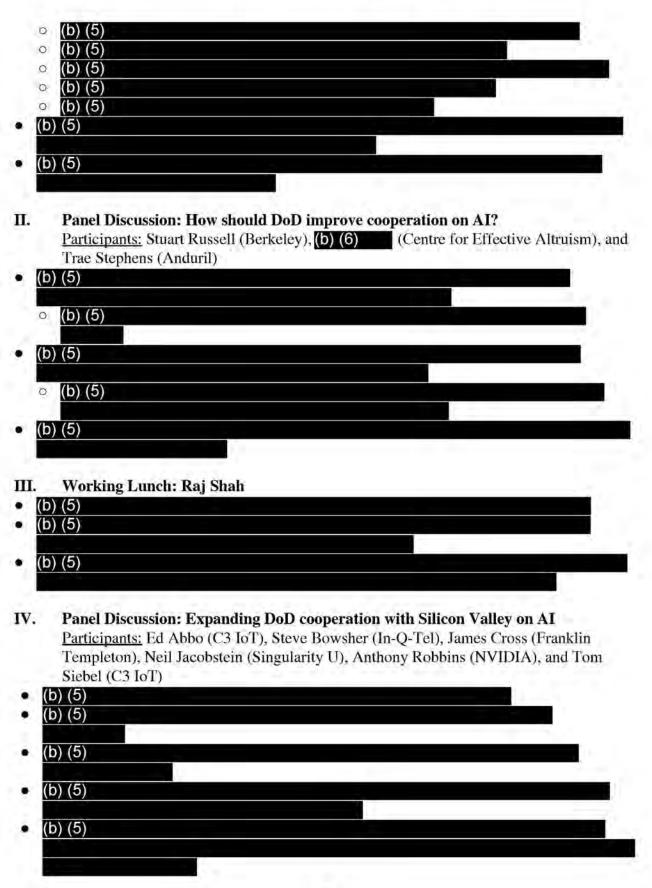
Commissioners in attendance:

- Mignon Clyburn
- Steven Chien
- (b) (6) (rep for Andy Jassy)

Commissioners participated in the following sessions:

- I. Briefing on DoD Relations with Silicon Valley by Brendan McCord
 - Key developments in AI over the last three years
 - o (b) (5)
 - o (b) (5)

PRE-DECISIONAL DRAFT



PRE-DECISIONAL DRAFT

Commissioners agreed: To continue WG 3's efforts as a special project on public-private partnerships for proand security. (ACTION: Staff). (b) (5) (commissioners noted several additional themes to incorporate into the Commission work: (b) (5) (b) (5) (b) (5) (b) (5) (b) (5) (c) (b) (5) (d) (5) (e) (b) (5) (f)	aff)
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Pre-Decisional and Deliberative

WORKING GROUP 5:

Ensuring International Cooperation and Competitiveness in AI



WORKING GROUP 2 MEETING

Tuesday, May 7th 2019, 0830-1600
The Pentagon
1000 Defense Pentagon, Washington DC, 20301
Room (b) (6)

PURPOSE

- Understand how China is achieving its AI objectives through diplomacy, economic statecraft, and espionage.
- Understand how China is currently leveraging AI, and how it seeks to utilize AI to erode U.S. strategic advantages.
- Identify ways the USG can adapt in order to maintain competitiveness.

ATTENDEES

COMISSIONERS

- · Jason Matheny (WG Chair) Former IARPA director
- Chris Darby CEO of In-Q-Tel
- Gilman Louie Alsop Louie Partners, Founder of In-Q-Tel

EXPERTS

- · Paul Scharre, CNAS
- Nadia Schadlow, Former Deputy National Security Advisor

STAFF

Yll Bajraktari, (b)(6) NSCAI staff members

DESIRED OUTCOMES

- Identify issues to move to the Plenary in May.
- Identify hard questions that the working group should focus on going forward.

AGENDA	
0830-0900	LIGHT BREAKFAST AND COFFEE
0900-0915	WELCOME REMARKS
	Speakers: Yll Bajraktari, NSCAI Executive Director; Paul Scharre and Nadia Schadlow, NSCAI International Cooperation and Competitiveness Working Group Expert Leads
0915-1000	SESSION ONE: [CLASSIFIED] OVERVIEW OF CHINA'S FOREIGN POLICY OBJECTIVES
	Speakers: Josh Cartin, NSC Director for Asian Economic Security
1000-1200	SESSION TWO: [CLASSIFIED] BRIEF ON HOW CHINA IS USING AI TO ADVANCE FOREIGN POLICY GOALS
	Speakers: Briefers from the NIC, FBI, and DoD Office of Commercial and Economic Analysis (OCEA) Questions: (b) (5) (b) (5) (b) (5) (b) (5)
1215-1315	WORKING LUNCH: HOW CHINA IS CREATING THE DOMESTIC CONDITIONS FOR AI DOMINANCE
	Speakers: Greg Allen (CNAS/JAIC) Read Ahead: "Understanding China's Al Strategy" by Greg Allen (CNAS)
1315-1430	SESSION FOUR: [CLASSIFIED] WHAT MUST THE U.S. GOVERNMENT CHANGE IN ORDER TO MAINTAIN COMPETITIVENESS WITH CHINA?
	Speakers: Dr. Matthew Daniels (OSD); (b) (6) (NIST); Paul Scharre (CNAS) Read Ahead: "Killer Apps: The Real Dangers of an Al Arms Race" by Paul Scharre (Foreign Affairs)
1430-1600	EXECUTIVE TIME - NEXT STEPS



Working Group on Ensuring International Cooperation and Competitiveness in AI

Summary of Conclusions Working Group Meeting Tuesday, May 7, 2019, 0830-1600

Working Group Objective: Identify non-military steps the United States must take to ensure it does not cede a competitive advantage to adversaries in AI, and identify common interests and opportunities for U.S.-led international cooperation.

Working Group Approach: Analyze the threat international actors pose to U.S. competitiveness, identify steps needed to ensure a level playing field for the United States and its allies, and diagnose areas that could benefit from global U.S. leadership on of AI cooperation. This includes an analysis of:

- 1. Entanglement vs competition with adversaries
- 2. Engagement with allies and partners
- 3. AI norms, benchmarks, and standards
- 4. Immigration and talent policy
- 5. Regulatory impact and tech transfer

Meeting Objective: Understand how China is achieving its AI objectives through diplomacy, economic statecraft, and espionage; how China seeks to utilize AI to erode U.S. strategic advantages; and ways the U.S. government can adapt to maintain competitiveness.

Commissioners in attendance:

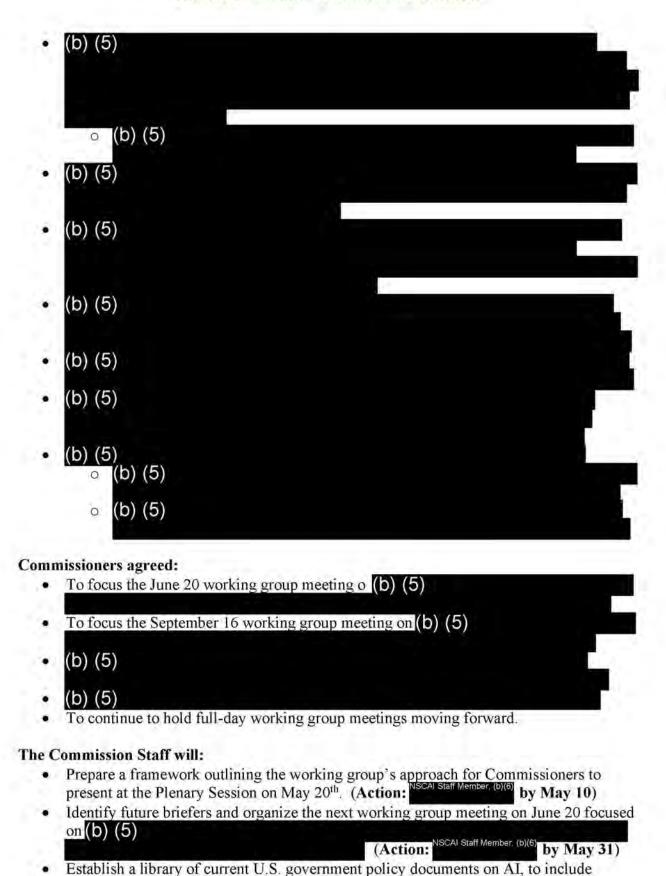
- Jason Matheny, Chair
- Chris Darby
- Gilman Louie

Commissioners received briefs on:

• (b) (5)	- National Security Council
• (b) (5)	- Intelligence Community
• (b) (5)	-FBI
• (b) (5)	- DoD Office of Commercial and Economic Analysis
• (b) (5)	- CNAS
• (b) (5)	- OSD R&E, NIST, CNAS

Key Themes from the Briefings to Incorporate into the Commission's Work:

• (b) (5)



classified documents. (Action: Commission Staff by May 31)



Working Group on Maintaining Global Leadership in AI Research Meeting Agenda

Wednesday, May 8, 2019, 1500-1700

Location: Google, 25 Massachusetts Avenue NW, Washington, DC and Schmidt Futures, 155 West 23rd Street, 11th Floor, New York

Meeting Objective: Gain a baseline for current state and key trends in AI research across global academic and commercial sectors and the US defense sector to develop a foundation for subsequent investigation, and begin to consider possible approaches to maintaining US leadership.

1500 - 1505 Welcome Remarks and Agenda Setting

Speakers: Yll Bajraktari, NSCAI Executive Director and Chris Kirchhoff, Senior Director, Schmidt Futures

1505 – 1520 Session One: Global Landscape of Artificial Intelligence Research

Speaker: Dr. Ray Perrault, SRI, Al Index

Guiding Questions:

- (b) (5) - (b) (5) - (b) (5)
- 1520 1540 Session Two: Developing a 20 Year Research Road Map for the United States

Speaker: Dr. Yolanda Gil, USC, AAAI President

Contributors: Dr. Ann Drobnis, CCC Director; Dr. Mark Hill, CCC Chair

- (b) (5)
- (b) (5)
- 1540 1600 Discussion
- 1600 1630 Session Three: US Department of Defense Investment in AI Research and Development

Speakers: Chris Taylor, CEO; Tara Murphy Dougherty, President, National Security Practice; and Jim Mitre, Senior Vice President for Strategy and Analysis, Govini Guiding Questions:

- (b) (5)
- (b) (5)
- 1630 1700 Executive Time

Objective: Identify issues to brief to the plenary meeting on 20 May and the hard questions to take forward for assessment. Define the objectives and framework for the working group's investigation going forward.



Working Group on Maintaining Global Leadership in AI Research

Summary of Conclusions Meeting #1 8 May 2019, 1500-1700

Working Group Objective: Identify concrete steps the US can take to maintain global leadership in Artificial Intelligence (AI)/Machine Learning (ML) research and development, with a focus on research that strengthens US national security and defense.

Working Group Approach: Through a comprehensive assessment and analysis of the US and the global AI research landscape and its associated funding and policy mechanisms, develop recommendations to maintain US leadership in the field, to include:

- 1. prioritization of research areas
- 2. infrastructure investments
- 3. funding mechanisms
- 4. policy and governance changes
- 5. application accelerants

Meeting Objective: Gain a baseline for current state and key trends in AI research across global academic and commercial sectors and the US defense sector to develop a foundation for subsequent investigation, and begin to consider possible approaches to maintaining US leadership.

Commissioners in attendance:

Andrew Moore, Chair; Eric Schmidt; Eric Horvitz

Commissioners discussed:

1.	Globa	l AI research environment:		
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2. AAAI/CCC 20 Year Roadmap for AI Research

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- 3. DoD Investments in AI (FY 2012-2017)
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Commissioners agreed:

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The Commission Staff will:

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- Bring in US government representatives to brief the working group on the comprehensive picture of US investments in AI research and development through various mechanisms.
- Provide research o (b) (5)
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NATIONAL SECURITY COMMISSION ON ARTIFICIAL INTELLIGENCE ARLINGTON, VA 22202

Working Group on Preparing Our Citizens For An AI Future

Date: May 17, 2019, 0830-1730 Location: NSCAI Offices, Conference Room

Meeting Objective: Discuss the prominence of artificial intelligence (AI) in military education, training, promotion, and career paths, identify what needs to change, and make recommendations.

0830 - 0900 Light Breakfast and Coffee

Please arrive by 0845 at the latest to allow time to check in at the front desk and be ready to start by 0900.

0900 - 0915 Welcome Remarks

Google Hangout: (b) (6)

Phone Call: (b) (6)

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Speakers: Yll Bajraktari, NSCAI Executive Director, and NSCAI National

Security Working Group Lead Experts

0915 - 1015 Session One: [Unclassified] The Landscape of AI Education in the Military

Google Hangout: (b) (6)

Phone Call: (b) (6)

PIN: (b) (6)

Speakers: MITRE Corporation, Dr. Mikel Rodriguez & Lisa Bembenick;

Unconfirmed: (b) (5)

1015 - 1030 Break

1030 – 1115 Session Two: [Unclassified] The State of AI Education at the U.S. Military Academies

Google Hangout: (b) (6)

Phone Call: (b) (6)

PIN: (b) (6)

Speakers:

U.S. Air Force Academy, Chair, Engineering Department, Colonel David Caswell:

U.S. Military Academy at West Point, Department Head of Electrical Engineering and Computer Science, Colonel James Raftery

Unconfirmed: (b) (5)

NATIONAL SECURITY COMMISSION ON ARTIFICIAL INTELLIGENCE ARLINGTON, VA 22202

Session Three: [Unclassified] Educating Our Military Leaders on AI

1115 - 1215

Google Hangout: (b) (6) Phone Call: (b) (6) PIN: (b) (6) Speakers: National Defense University, Dean, College Information and Cyberspace, Thomas Wingfield; U.S. Army War College, Dean of the School of Strategic Landpower, Dr. Richard Lacquement; U.S. Naval War College, Director of Ethics & Emerging Military Technology Program, Dr. Thomas Creely 1215 - 1230 Break 1230 - 1330 Working Lunch: Session Four: [Unclassified] AI Prominence in Defense Talent Management Google Hangout: (b) (6) Phone Call: (b) (6) PIN: (b) (6) Speakers: USAF, Chief of ISR Talent Management, Deputy Chief of Staff for Intelligence, Surveillance, and Reconnaissance HAF/A2F, Colonel Jennifer Sovada; Joint Artificial Intelligence Center, Colonel Jeff Kojac Unconfirmed: (b) (5) 1330 - 1415 Session Five: [Unclassified] The Level of AI Education and its Effects Google Hangout: (b) (6) PIN: (b) (6) Phone Call: (b) (6) Speaker: Chris Lynch, DDS 1415 - 1500Session Six: [Unclassified] The Concept for a Digitally Ready Force Google Hangout: (b) (6) Phone Call: (b) (6) PIN: (b) (6) Speaker: Josh Marcuse, Executive Director, Defense Innovation Board 1500-1515 Break 1515-1700 Executive Time Google Hangout: (b) (6) Phone Call: (b) (6) PIN: (b) (6)

NATIONAL SECURITY COMMISSION ON ARTIFICIAL INTELLIGENCE ARLINGTON, VA 22202

Objective: Identify issues to move to the plenary in May and hard questions that the working group should focus on going forward.



Working Group on Preparing Our Citizens for an AI Future Summary of Conclusions

NSCAI Offices In-Person Meeting #1 | May 17, 2019 | 0830 - 1700

Working Group Objective: Determine the current status of the AI workforce and recommend concrete steps the United States should take to build and maintain an AI workforce that can address national security and defense needs of the United States.

Working Group Approach: Through a comprehensive analysis and assessment of the U.S. national security AI workforce, develop recommendations to maintain U.S. leadership through AI in the national security apparatus, to include:

- Assessment of the current AI workforce
- Defining the role of the AI workforce
- Developing and recruiting an AI workforce
- AI talent management
- Mechanisms for implementation

Meeting Objective:

Discuss the prominence of artificial intelligence (AI) in military education, training, promotion, and career paths, identify what needs to change, and make recommendations.

Commissioners in Attendance:

- Dr. Jose-Marie Griffiths
- Dr. Bill Mark
- Mr. Bob Work
- Ms. Mignon Clyburn

Commissioners Discussed:

- The overall landscape of AI education and talent management in the military
- The state of AI education at the U.S. military academies
- The state of AI education at U.S. senior service colleges
- AI prominence in defense talent management, particularly regarding the Joint Artificial Intelligence Center and Air Force Intelligence, Surveillance, and Reconnaissance force
- The level of AI and digital education within the DOD, and what a digital workforce requires
- The landscape of defense talent management, particularly regarding technically skilled military personnel





The Commissioners Agreed:

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- The next working group's objective will be to assess and identify talent management and education policies within the broad national security community. The questions will include:
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The Commissioners Next Steps include:

Assess (b) (5)
 Assess (b) (5)
 Identify (b) (5)

The Commission Staff will:

- Create a read ahead for the June working group meeting to frame the discussion.
- Contact Professor Rob Grossman at the University of Chicago for a briefing on his diamond strategy. Staff will provide a read out of the briefing with the recommendation as to whether or not his briefing should be offered to the Commissioners.
- Follow up with Dean Wingfield of National Defense University to obtain copies of the reading materials assigned to their students. The 11 short books are produced by Oxford and aim to provide students with a baseline understanding of the issue.
- · Reach out to AF Colonel Sovada to obtain the report she managed to clear in 60 days.
- Invite and confirm government and non-government entities to provide briefings on the agreed topics for our next working group meeting on June 7th.
- Follow up and engage with subject matter experts to continue staff education and identify potential future speakers.

PLENARY 2: AI, China, the Global Environment and U.S. Government Strategies



PLENARY MEETING

Monday, May 20th, 2019, 0830-2000 Cupertino, California

PURPOSE

 Develop Common Understanding of the National Security Implications of China's Rise and Alternative Futures, in order to Inform the Commission's Deliberations and Reporting to Congress about National Security and Artificial Intelligence.

DESIRED OUTCOMES

- · Establish baseline understanding of USG China and Al policies
- · Evaluate working group progress
- · Identify issues for further research, analysis or decision
- · Provide guidance to direct working group next steps

ATTENDEES

COMMISSIONERS, COMMISSION STAFF, ADMINISTRATION REPRESENTATIVES AND SUBJECT MATTER EXPERTS

AGENDA	
0830	ARRIVAL AT JUNIPER HOTEL LOBBY
0900-0915	WELCOME AND OVERVIEW REMARKS
	Speakers: NSCAI Executive Director, Chair and Vice-Chair
0915-1025	SESSION ONE: THE ADMINISTRATION'S AI STRATEGY
	Speaker: Office of Science and Technology Policy
1025-1040	BREAK
1040-1150	SESSION TWO: THE ADMINISTRATION'S CHINA STRATEGY
	Speakers: National Security Council Staff
1150-1250	SESSION THREE: CHINA 2040
	Speaker: Net Assessment, Office of the Secretary of Defense
1300	LUNCH
1400-1540	WORKING GROUP OUT BRIEFS (SEATED BY WORKING GROUP)
	Speakers: Working Group Chairs
1545-1630	EXECUTIVE DISCUSSION OF INTERIM REPORT OPTIONS
	Speakers: NSCAI Staff and Commissioners
1630-1730	EXECUTIVE SESSION
1800-2000	DINNER: CHINESE TECH LANDSCAPE AND COMPARATIVE ADVANTAGES
	Speaker: Subject Matter Expert NSCAI-FOIA-2020-009-000024

*Pre-Decision Working Document



Plenary Session #2, May 20, 2019 Summary of Discussion and Conclusions

Commissioners were briefed on U.S. Government policies and perspectives, from the White House Office of Science and Technology Policy, the National Security Council, and the Defense Department's Office of Net Assessment. In addition, each of the Commission's four Working Groups briefed the full Commission on progress to date -- covering AI research, national security applications, workforce development, and international competition and cooperation.

The Chair or Vice Chair stated that the Commission should:

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Commissioners agreed:

- To follow three main work phases: 1) Assessment -- identifying hard questions, 2)
 Analysis -- developing early recommendations, and 3) Findings -- refining recommendations and building coalitions.
- To issue three reports: 1) a Preliminary Report in July, 2) an Interim Report in November, and 3) a Final Report in March 2021.
- The Commission's structure will consist of four Working Groups and three Special Projects -- focused on 1) public-private partnerships, 2) responsible use of AI (to include ethical issues), and 3) data to support AI.
- Commissioners will volunteer to support the three Special Projects.
- To develop a workable definition of AI that will guide the Commission's reports.
- The Interim Report should aim to assess the current competition; convey the Commission's key public messages; and, if any recommendations are developed by November, include them to influence the FY21 NDAA.
- WG2 will incorporate the question of lethal autonomous weapons systems (LAWS)

Commissioners also recommended that the Commission:

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Commissioners identified several related efforts to track:

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Commission staff will:

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Next Steps:

- · Working Groups will continue the assessment phase.
- Working Groups will begin to collect preliminary recommendations for action in the Interim Report.

Attachments

- TAB 2. OSTP briefing slides
- TAB 3. Staff slides on alternative AI definitions
- TAB 4. Article by Liza Tobin on China and global governance



Working Group on Preparing the National Security Workforce For An AI Future

Date: June 7, 2019, 0830-1730

Location: NSCAI Offices, Second Floor Conference Room

Meeting Objective: Assess and identify talent management and education policies within the broad national security community

0830 - 0900 Light Breakfast and Coffee

Please arrive by 0845 at the latest to allow time to be ready to start by 0900.

0900 - 0915 Welcome Remarks

Google Hangout: (b) (6)

Phone Call: (b) (6)

PIN: (b) (6)

Speakers: Yll Bajraktari, NSCAI Executive Director; and (b) (6), NSCAI

Director of Research and Analysis

0915 - 1015 Session One: [Unclassified] What does the national security AI workforce need to be able to do?

Google Hangout: (b) (6)

Phone Call: (b) (6) PIN: (b) (6)

Questions:

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UNCLASSIFIED//FOUO



	• (b) (6), National Security Agency (NSA);				
	• (b) (6) , Digital Warfare Office, U.S. Navy;				
	• (b) (6), Senior Advisor for Energy, Environment, and				
	Stability, Department of State; and,				
	• (b) (6) , Retired, Director, Homeland Security Advanced				
	Research Projects Agency (HSARPA), Science and Technology				
	Directorate, Department of Homeland Security				
1015 – 1035	Break				
1035 - 1120	Session Two: [Unclassified] What are possible structures for the national				
	security AI workforce?				
	Google Hangout: (b) (6)				
	Phone Call: (b) (6) PIN: (b) (6)				
	Questions:				
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	• (b) (5)				
	• (b) (5)				
	Speakers:				
	• (b) (6) , National Security Agency (NSA);				
	• (b) (6) Base Camp Advocate, U.S. Air Force;				
	 (b) (6) Senior Advisor for Energy, Environment, and 				
	Stability, Department of State				
1120 - 1150	Lunch				
1150 - 1250	Session Three: [Unclassified] How does the national security community				
	manage and educate expert STEM talent?				
	Google Hangout: (b) (6)				
	Phone Call: (b) (6) PIN: (b) (6)				
	Questions:				

Speakers:



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Speakers:

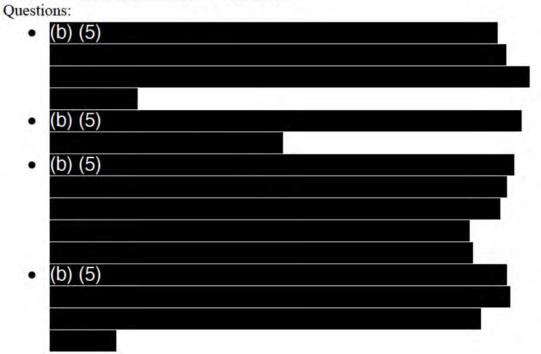
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 Policy & Compliance, Office of the Director of National Intelligence;
- (b) (6), Senior Advisor for Energy, Environment, and Stability, Department of State; and,
- (b) (6) , Deputy Under Secretary for Artificial Intelligence and Technology, Department of Energy.

1250 – 1350 Session Four: [Unclassified] How does the private sector recruit, retain, and manage expert STEM talent?

Google Hangout: (b) (6)

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- (b) (6) and (b) (6) Google;
- (b) (6) or guest, Amazon; and,
- (b) (6) , SVP Engineering, Unsupervised AI.

1350 - 1450 Session Five: [Unclassified] What might convince more entry level and expert AI workers to work for and/or with the government?

Google Hangout: (b) (6)
Phone Call: (b) (6)
Questions:

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Speakers:

- (b) (5)
- (b) (6) Associate Professor, Department of Computer Science, Howard University;
- Representative from Shield AI (tentative)

1450 - 1500 Break

1500 - 1700 Executive Session

Google Hangout: (b) (6)
Phone Call: (b) (6)

Discussion Topics:

- 3 Key Takeaways
- 3 Next Steps
- Method and Frequency of Communication



Working Group on Preparing Our Citizens for an AI Future Summary of Conclusions

NSCAI Offices In-Person Meeting #2 | June 7, 2019 | 0830 - 1600

Working Group Objective: Determine the current status of the AI workforce and recommend concrete steps the United States should take to build and maintain an AI workforce that can address national security and defense needs of the United States.

Working Group Approach: Through a comprehensive analysis and assessment of the U.S. national security AI workforce, develop recommendations to maintain U.S. leadership through AI in the national security apparatus, to include:

- Assessment of the current AI workforce
- Defining the role of the AI workforce
- · Developing and recruiting an AI workforce
- AI talent management
- Mechanisms for implementation

Meeting Objective:

Assess and identify talent management and education policies within the broad national security community.

Commissioners in Attendance:

- Dr. Jose-Marie Griffiths (Chair)
- Dr. Bill Mark
- · Mr. Bob Work
- Ms. Mignon Clyburn

Comn	nissioners Received Briefings on a	nd Discussed:		
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The Commissioners Agreed:

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- (b) (5)

The Commission Staff will:

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Research four specific areas that could result in a package recommendation:

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 - (b) (5)
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- o (b) (5)

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- (b) (5)
- Create a read ahead for the September working group meeting to frame the discussion.
- Invite and confirm government and non-government entities to provide briefings on the agreed topics for our next working group meeting in September.
- Follow up and engage with subject matter experts to continue staff education and identify potential future speakers.
- Develop further the Working Group Campaign Plan and workforce archetypes for analyzing the needs of the national security AI workforce and making recommendations. (Staff to share Campaign Plan with Commissioners at the July 11th plenary.)

PRE-DECISIONAL WORKING DOCUMENT



Working Group on Maintaining Global Leadership in National Security AI Application

Summary of Conclusions Working Group Meeting Tuesday, June 11, 2019, 0830-1700

Working Group Objective: Identify concrete steps that the U.S. can take to maintain its global leadership in Artificial Intelligence (AI)/Machine Learning (ML) application relevant to U.S. national security and defense.

Working Group Approach: Through a comprehensive assessment and analysis of the current state of U.S. national security and defense AI applications and the global AI threat environment, develop recommendations to maintain U.S. leadership in the field, to include:

- 1. National security organization, policy, and governance
- 2. Acquisition and application processes and mechanisms
- 3. Funding and resource requirements

Meeting Objectives: 1) Deepen understanding of strategic competitors' AI application efforts, and 2) examine existing innovative programs and approaches within the U.S. government.

Commissioners in attendance:

- Safra Catz, Chair
- Katharina McFarland
- Andy Jassy
- Ken Ford
- Andy Jassy (SVTC)
- (b) (6) (rep for Andy Jassy)
- (b) (6) (rep for Steve Chien)

Commissioners received briefs on: Strategic competitor AI applications for national security and innovative U.S. government programs from the following entities: NGA, NSA, DARPA, and NRO.

Commissioners agreed:

- To develop a framework for assessing individual departments and agencies ability to adopt and scale AI applications and begin conducting research. (Action: Staff with Commissioner buy-in)
- To hold additional working group meetings with key U.S. government stakeholders, with a near-term focus on the Department of Defense labs and programs. (Action: Staff)

PRE-DECISIONAL WORKING DOCUMENT

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	llowing areas should be exa	amined for best practices:
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The Commission Staff will:

- Prepare talking points outlining key takeaways for Commissioners to present at the Plenary Session on July 11th. (Action: Staff)
- Identify future briefers and organize the next working group meeting in the September timeframe. (Action: Staff)
- Continue developing a framework for assessing AI application efforts within individual USG departments and agencies and begin conducting research. (Action: Staff)

WORKING GROUP 4:

Ensuring International Cooperation and Competitiveness in AI



WORKING GROUP 4 MEETING

Thursday, June 20 2019, 0830-1630

(b) (6)

PURPOSE

- · Understand the national AI strategies of key U.S. allies and partners
- Discuss how allies and partners view the intersection of AI and national security, as well as the challenges posed by China.
- Identify areas of cooperation with allies and partners, how the United States can leverage alliances to better compete with Russia and China in AI, and risks to future capabilities absent cooperation.

ATTENDEES

COMISSIONERS

- · Jason Matheny (WG Chair) Georgetown University
- · Chris Darby In-Q-Tel
- Gilman Louie Alsop Louie Partners

STAFF

Yll Bajraktari, NSCAI Staff Members, (b)(6)

DESIRED OUTCOMES

- Identify issues to discuss at the Plenary in July, including potential areas of cooperation with allies and partners
- Identify desired briefings and topics for September 16 Working Group meeting
- Discuss areas of focus for intercessional period between now and September, and how the Working Group's research and analysis will integrate into the Commission's interim and final reports.

AGENDA

0830-0900	LIGHT BREAKFAST AND COFFEE		
0900-0915	WELCOME REMARKS		
	Speakers: YII Bajraktari, NSCAI Executive Dir	rector; (b) (6), NSCAI Working Group Staff Lead	
0915-1000	SESSION ONE: STATE DEPARTMENT ON OECD AND G20 AI PRINCIPLES		
	Speaker: Matt Chessen - Senior Science and	Technology Advisor to the Secretary of State	
1000-1100	SESSION TWO: JAPAN		
	Speakers: (b) (6) (b) (6) (b) (6) (b) (6)	Japanese Embassy , Japanese Embassy , Japanese Embassy , Japanese Embassy	
1105-1200	SESSION THREE: UNITED KINGDO	M	
	Speaker: (b) (6)	, UK Embassy	
1215-1315	SESSION FOUR / WORKING LUNCH	I: AUSTRALIA	
	Speakers: (b) (6) (b) (6)	, Australian Embassy , Australian Embassy	
1330-1430	SESSION FIVE: EUROPEAN UNION		
	Speaker: (b) (6)	, EU Mission to the United States	
1430-1530	SESSION SIX: INDIA (TBC)		
	Speaker: (b) (6)	, Indian Embassy	
1530-1630	EXECUTIVE TIME - NEXT STEPS		



Working Group on Ensuring International Cooperation and Competitiveness in AI

Summary of Conclusions Working Group Meeting Thursday, June 20, 2019, 0830-1600

Working Group Objective: Identify non-military steps the United States must take to ensure it does not cede a competitive advantage to adversaries in AI, and identify common interests and opportunities for U.S.-led international cooperation.

Working Group Approach: Analyze the threat international actors pose to U.S. competitiveness, identify steps needed to ensure a level playing field for the United States and its allies, and diagnose areas that could benefit from global U.S. leadership on of AI cooperation. This includes an analysis of:

- 1. Entanglement vs competition with adversaries
- 2. Engagement with allies and partners
- 3. AI norms, benchmarks, and standards
- 4. Regulatory impact and tech transfer

Meeting Objectives: Understand the national AI strategies of key U.S. allies and partners (b) (5)

. Identify potential areas of cooperation with allies and partners, (b) (5)

Commissioners in attendance:

- · Jason Matheny, Chair
- Chris Darby
- Gilman Louie

Commissioners received briefs on:

- The OECD and G20 AI Principles U.S. Department of State
- Japan's National AI Strategy Embassy of Japan
- The United Kingdom's National AI Strategy Embassy of the United Kingdom
- Australia's National AI Strategy Embassy of Australia
- The European Union's AI Strategy The European Union's Mission to the United States

Key Takeaways from the Working Group Meeting:

• (b) (5)



Commissioners agreed:

• To focus the working group's scheduled September 16 meeting on (b) (5)

The meeting will also feature a longer executive session in order to discuss the group's findings to date.

 To schedule another meeting in September, potentially jointly with the public-private partnerships special project, on (b) (5)

Meeting could be in person or virtual.

 To a tentative plan in which the Working Group would develop a research memo outlining its findings in September. This would feed to interim report, which would be reviewed at the October plenary in advance of being finalized in November.

The Commission Staff will:

- Continue to meet with additional international reps at the staff level, and will report findings or refer key briefings to Commissioners. (Action: Staff, ongoing)
- Develop a research memo outlining the key findings of the Working Group to date, for review in September. (Action: Staff, by September 16 WG meeting)
- Identify future briefers for both September working group meetings, and schedule potential joint-meeting. (Action: Staff by August 15)
- Develop out-brief slides and talking points for June 11 plenary. (Action: Staff by July 8)



Working Group on Maintaining Global Leadership in AI Research Meeting Agenda

Friday, June 28, 2019, 1430-1830 Location: Pentagon, Room (b) (6)

<u>Meeting Objective:</u> Gain an understanding of current levels of US government investment in AI/ML research, looking at the policies, processes, funding levels and research priorities, particularly as related to defense and national security-related AI research

1430 - 1440 Welcome Remarks and Agenda Setting

Speakers: Yll Bajraktari, NSCAI Executive Director; NSCAI Staff Members, (b)(6)
NSCAI staff

1440-1510 Session One: Federal Investment and Priorities in AI R&D

Speaker: **Dr. Lynne Parker**, Assistant Director for AI, Office of Science and Technology Policy

Topics for discussion:

- Implementation of EO on Maintaining American Leadership in Artificial Intelligence
- Results of data call on USG-wide AI investment
- Updated National AI R&D Strategic Plan

1510 – 1600 Session Two: National Security Investment in AI Research

Speakers: (b) (6) Office of Cost Assessment and Program Evaluation, Office of the Secretary of Defense

Dr. Matt Daniels, Technical Director for Machine Learning and Artificial Intelligence, Office of the Undersecretary of Defense for Research & Engineering

Dr. John Beieler, incoming Director of Science & Technology, Office of the Director of National Intelligence

Dr. Dimitri Kusnezov, Deputy Under Secretary for Artificial Intelligence and Technology, Department of Energy

Topics for discussion:

- Levels of investment in Al R&D and priority research areas
- Opportunities and challenges

1600 – 1630 Session Three: National Science Foundation Investment in AI

Speaker: Dr. James Kurose, Assistant Director, Computer and Information Science and Engineering, National Science Foundation

Topics for discussion:

- Levels of investment and priority research areas
- AI institute concept and status
- 1630 1645 Break
- 1645 1830 Executive Session



Working Group on Maintaining Global Leadership in AI Research

Summary of Conclusions Meeting #2 The Pentagon 28 June 2019, 1430-1830

Working Group Objective: Identify concrete steps the US can take to maintain global leadership in Artificial Intelligence (AI)/Machine Learning (ML) research and development, with a focus on research that strengthens US national security and defense.

Working Group Approach: Through a comprehensive assessment and analysis of the US and the global AI research landscape and its associated funding and policy mechanisms, develop recommendations to maintain US leadership in the field, to include:

- 1. prioritization of research areas
- 2. infrastructure investments
- 3. funding mechanisms
- 4. policy and governance changes
- application accelerants

Meeting Objective: Gain an understanding of current levels of US government investment in AI/ML research, looking at the policies, processes, funding levels and research priorities, particularly as related to defense and national security-related AI research

Commissioners in attendance:

Andrew Moore, Chair; Eric Schmidt; Eric Horvitz

Commissioners discussed:

1. US Policy-Level Approach to AI R&D:

- o Prioritization of AI R&D funding among the core objectives of Executive Order
- Interagency progress report on advancement of AI R&D to be released by the White House this summer
- 2019 updated National AI R&D Strategy maintains the core strategy with an additional line of effort emphasizing public-private partnerships.
- The Networking and Information Technology Research and Development (NITRD) supplement to the President's Budget will capture AI R&D investments across departments and agencies via a dual approach of a new Program Component Area (PCA) for AI to report investment in the fundamental research, paired with a reporting of the percentage of research in other PCAs that involves AI. DoD and the IC will not report their AI funding for the NITRD supplement.
- The inherent risk in self-reporting incentives.

2. National Security Agencies Investments in AI R&D

- DoD, IC, and DOE recognize the importance in investing in AI R&D to tackle the hard to answer questions, and the areas in which commercial sector has no desire to invest.
- Common difficulties are faced in:
 - Quantifying AI at department levels i.e. DoD doesn't think of fielded capability as AI.
 - Talent Recruiting and retaining the level of digital talent to conduct and apply research.

- Lack of creativity focus on enhancing current capabilities vice creating fundamentally new ones.
- Funding executing at levels necessary for progress and artificial tension between R&D and Operations and Maintenance funds.

a (b) (5)

3. National Science Foundation

- Funding of computer science related research remains flat as the field skyrockets in importance.
- Absorptive capacity of NSF for additional funds is evident based on the number of high-rated proposals that are <u>not</u> funded annually (\$190 million validated, but unfunded in 2018; \$165 million funded).
- Research priorities are driven from a bottom-up approach across research community.
- Plan to launch first AI Institutes in FY2020, formed around grand challenge issues, funded at a level of \$5 million/year and above for five years.

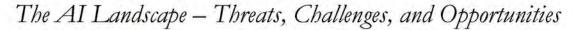
Commissioners agreed:

- The U.S. competitive advantage in AI research is at risk sooner than appreciated. US leadership faces sustainability challenges due to talent development and retention issues.
- Rapid Chinese progress and constrained federal basic research funding is further eroding US competitive advantage.
- (b) (5)
- Reporting should illustrate how federal R&D investments laid the groundwork for fundamental technologies that have enabled US geopolitical leadership, transformed society and built new industries.
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The Commission Staff will:

- (b) (5)
- Develop success stories about federal funding of basic research to incorporate in Commission reporting and engagements.
- (b) (5)
- (b) (5)
- Examine collaboration with the Cyber Solarium Commission.
- Follow up to engage subject matter experts for the group.

PLENARY 3:





PLENARY MEETING

Thursday, July 11, 2019, 0830-1900 Cupertino, California

PURPOSE

- Develop common understanding of the counterintelligence threat
- · Evaluate working group and special project progress
- Present way forward for July and November interim reports to Congress

DESIRED OUTCOMES

- Understand the nature of the threat environment
- Provide feedback to working groups and special project initiatives
- Endorse July Report and agree on the process leading to Nov interim report
- Develop a vision of Al future in order to develop research and application priorities, and workforce requirements.

ATTENDEES

- · Commissioners
- · Commission Staff
- NSC Representative
- · IC Representatives

ENDA	
0830	ARRIVAL AT JUNIPER HOTEL LOBBY
0900-0910	WELCOME AND OVERVIEW REMARKS
	Speakers, NSCAI Executive Director, Chair and Vice-Chair
0910-1115	SESSION ONE: PANEL DISCUSSION AND PRESENTATIONS
	Speaker: Intelligence Community, Law Enforcement and OCEA Representatives
1115-1215	SESSION TWO: INTELLIGENCE COMMUNITY BRIEFING
	Speakers: Intelligence Community Representatives
1215-1300	SESSION THREE: NSPM BRIEFING
	Speaker: National Security Council Representative
1300-1345	LUNCH
	Seated by Working Group
1350-1530	WORKING GROUP & SPECIAL PROJECT OUT BRIEFS
	Speakers: Working Group Chairs
1530-1615	CONGRESSIONAL REPORTING (JULY REPORT; NOV REPORT; CONFERENCE
	Speakers: NSCAI Staff and Commissioners
1630-1745	EXECUTIVE DISCUSSION
	Speakers: NSCAI Staff and Commissioners
1745-1815	RECEPTION
1815-1900	SUBJECT MATTER EXPERT PRESENTATION

Summary of Conclusions - Plenary #3

The NSCAI met for its third plenary session on July 11, 2019, in Cupertino, California.

The Commission:

- Received briefings on foreign threats to AI research and development in the United States, and the White House's progress in developing an action plan to implement the National Security Presidential Memorandum (NSPM) on AI.
- 2. Approved the draft Preliminary Report to Congress by unanimous consent.
- Discussed the next steps leading to the submission of the Interim Report to Congress in November

Commissioners agreed to:

- Submit the Preliminary Report to Congress -- which will outline the basic structure, organization, and work plan for the Commission -- by the end of July.
 - Initiate planning for a conference in early November. The conference will be organized around the Commission's working group structure. Each panel will be chaired by the respective working group Commission chair, and will include leaders from academia, industry, and government.
 - 3. Produce a draft list of "beliefs" that will capture assertions and factual statements about the state of AI. Commission staff will create a draft list of "beliefs" that will be circulated to commissioners for comment and will serve as an organizing foundation for the development of the Interim Report.
 - 4. Draft memos, prepared by the working groups and special projects, ahead of the September meetings. The memos will provide an initial assessment of the working groups' findings about the landscape, possible recommendations, and hard questions for commissioners' review.



Working Group on Maintaining Global Leadership in National Security AI Application Meeting Agenda

Monday, September 9, 2019, 0800-1700

Location: Pentagon, (b) (6)

0750 Arrival 0800 - 0900 Session One: 3rd Offset Strategy Speaker: Bob Work, Former DepSecDef and Commission Vice Chair 0900 - 0930 Session Two: Joint Staff AI Overview Speaker: Lt Gen O'Donohue, Director of the Joint Staff J7, Joint Force Development Directorate 0930 - 1030 Session Three: Army AI Overview Speakers: General Murray, Army Futures Command 1030 - 1045 Break 1045 - 1200 Session Four: OCEA Speaker: (b) (6) 1200 - 1230 Lunch 1230 - 1330 Session Five: Air Force AI Overview Speakers: Dr. Will Roper, Assistant Secretary of the Air Force for Acquisition, Technology and Logistics 1330 - 1430 Session Six: Navy and Marine Corps AI Overview Speakers: LtGen Lori Reynolds, Marine Corps Deputy Commandant for Information; Rear Adm David Hahn, Chief of Naval Research 1430 - 1700 Executive Time - Next Steps Topics: Working Group Takeaways; Research Memo Review; November Report

Timeline



Working Group on Maintaining Global Leadership in National Security AI Application

Summary of Conclusions Working Group Meeting Tuesday, September 9, 2019, 0800-1700

Working Group Objective: Identify concrete steps that the U.S. can take to maintain its global leadership in Artificial Intelligence (AI)/Machine Learning (ML) application relevant to U.S. national security and defense.

Working Group Approach: Through a comprehensive assessment and analysis of the current state of U.S. national security and defense AI applications and the global AI threat environment, develop recommendations to maintain U.S. leadership in the field, to include:

- 1. National security organization, policy, and governance
- 2. Acquisition and application processes and mechanisms
- 3. Funding and resource requirements

Meeting Objectives: Understand DoD and the Military Services' perspectives on AI application for national security, including: how they see AI's role in future conflicts; their current initiatives and investment priorities; and, how well postured they are to acquire and adopt AI technologies.

Commissioners in attendance:

- Safra Catz, Chair
- Katharina McFarland
- Andy Jassy (SVTC)
- Steve Chien
- (b) (6) (rep for Andy Jassy)

Commissioners received briefs on: The Third Offset, OCEA research on strategic competitors, and individual Service perspectives on AI strategy, priorities, efforts, acquisition, and challenges and opportunities.

Commissioners noted several key takeaways from the working group meeting:

• The United States has long taken technological superiority is given - it cannot afford to do so anymore. Its competitors are equally committed to taking the lead. Both China and Russia have concluded that the state that masters AI/ML technologies will likely accrue tremendous future strategic advantages. The U.S. government has set the right direction for adoption of AI for defense and national security purposes but must accelerate its efforts with renewed sense of urgency.

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- The United State military and intelligence community needs to adopt AI at scale in
 order to maintain military advantage. The AI will enable our defense and national
 security agencies to understand faster, operate faster, and execute its mission faster
 consistent with the laws of armed conflict as well as our democratic values and norms.
- Like significant military-technological changes of the past, AI requires top-down leadership to overcome cultural and organizational barriers to adoption. DoD and the IC need to identify senior civilian and military leaders who can drive investment decisions within the budget process and align AI strategies with the resources necessary to implement them.
- The successes of individual programs within the DoD and IC will not automatically translate into a strategic shift in our application of AI for national security. Those working on AI initiatives across DoD and the IC recognize its importance and are making progress; however, AI efforts remain on the periphery and small but successful programs are not creating a critical mass for organizational change.
- AI requires a completely different approach to acquisition. Effectively adopting AI enabled technologies requires rapid procurement, development, testing, evaluation, and fielding in an iterative and dynamic manner. The current acquisition system was designed for material solutions in which long development timelines with serial testing and fielding was the norm. This approach combined with the current peacetime mentality and risk-averse culture within the acquisition enterprise is inadequate for adopting AI enabled technologies at speed and scale.
- Trustworthy and reliable AI is an operational necessity. The minimum threshold for
 adopting AI-enabled solutions should be the ability to make a decision/respond faster and
 as accurately as a human, provided the solutions have adequate reliability and safety
 assurances. To realize a strategic shift requires a broader adoption of the risk tolerant
 approach to adopting AI enabled technologies when they reach these minimum
 thresholds.

The Commission Staff will:

- Work with the writing team to transition the research memo into the interim report.
 (Action: Staff)
- Share a draft of the interim report by September 27th and organize a call with Commissioners for their feedback the following week. (Action: Staff)
- Work with Commissioner McFarland to identify key acquisition-focused recommendations. (Action: Ms. McFarland, Staff)
- Identify areas for further research and assessment during the Commission's next phase.
 (Action: Staff)



Working Group on Preparing the National Security Workforce For An AI Future

Date: September 9, 2019, 0830-1730

Location: NSCAI Offices, Second Floor Conference Room

<u>Meeting Objective:</u> Assess and identify recruitment and hiring practices and create an interagency workforce framework.

0830 - 0900 Light Breakfast and Coffee

Please arrive by 0845 at the latest to allow time to be ready to start by 0900.

0900 - 0915 Welcome Remarks

Google Hangout:

Phone Call:

Speakers: Justin Lynch, NSCAI Director of Research and Analysis

0915 – 1015 Session One: [Unclassified] How can scholarships, internships, fellowships, and the reserve component attract AI talent?

Google Hangout: (b) (6)

Phone Call: (b) (6)

Ouestions:

- How have internships and fellowships translated into follow on employment? When it did
 not, what was the obstacle (interest, bureaucratic barriers, job availability, etc.)?
- How might the USG make internships and fellowships more attractive to students and/or practitioners? How might the USG advertise them better?
- Do most AI practitioners from the Reserve component come from a certain service? If so, why?

Speakers:

- Carnegie-Mellon University (b) (6)
 Scholarship for Service (D) (6)
)
- Reserve Component (b) (6)

1015 - 1030 Break



1030 – 1130 Session Two: [Unclassified] What hiring authorities and pay scales does the government use to attract STEM talent?

Google Hangout: (b) (6)

Phone Call: (b) (6)

Questions:

- Are current pay scales adequate? If not, how much do they need to change, and who can authorize it?
- If salary is a significant issue, why hasn't the USG created a pay scale that will attract top AI practitioners? What will be the secondary consequences if it does?
- How would the Cyber Excepted Service need to change to impact AI hiring? How would it need to change to be more effective?

Speakers:

- Office of Personnel Management (D) (6)
 OSD P&R (D) (6)
- Cyber Command(b) (6)

1130 - 1230 Session Three: [Unclassified] How do technical integrators hire, train, and model their AI workforce?

Google Hangout: (b) (6)

Phone Call: (b) (6)

Questions:

- How concentrated is your AI workforce (labs versus broadly distributed)? Does that change from research and development to applications?
- Do you always consider data scientists to be part of your AI workforce? If not, how do you differentiate AI from non-AI data scientists?
- How do you train and educate non-technical leaders that need to make enterprise decisions that involve or affect AI programs?

Speakers:

McKinsey (b) (6)
Lockheed Martin (b) (6)
Booz Allen Hamilton (b) (6)

1230 - 1315 Lunch



1315 – 1415 Session Four: [Unclassified] DIB-JAIC-NSCAI Discussion of Interagency Workforce Framework

Google Hangout: (b) (6)

Phone Call: (b) (6)

Speakers:

Defense Innovation Board ((b) (6)

JAIC

1415-1430 Break

1430 - 1700 Executive Session

Google Hangout: (b) (6)

Phone Call: (b) (6)

PIN: (b) (6)

Discussion Topics:

- 3 Key Takeaways
- 3 Next Steps
- · Finalization of the statements of belief
- Agreement on Assessments in Memorandum
- · Agreement on a draft list of recommendations
- · Commissioner and staff way ahead
- (b) (5)

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Working Group on Preparing Our National Security Workforce for an AI Future

Summary of Conclusions

NSCAI Offices In-Person Meeting #3 | September 9, 2019 | 0830 - 1700

Working Group Objective: Determine the current status of the AI workforce and recommend concrete steps the United States should take to build and maintain an AI workforce that can address national security and defense needs of the United States.

Working Group Approach: Through a comprehensive analysis and assessment of the U.S. national security AI workforce, develop recommendations to maintain U.S. leadership through AI in the national security apparatus, to include:

- Assessment of the current AI workforce
- Defining the role of the AI workforce
- · Developing and recruiting an AI workforce
- AI talent management
- Mechanisms for implementation

Meeting Objective:

Assess and identify recruitment and hiring practices and create an interagency workforce framework

Commissioners in Attendance:

- · Dr. Jose-Marie Griffiths
- Dr. Bill Mark
- Ms. Mignon Clyburn

Commissioners Discussed:

- How scholarships, internships, and fellowships can attract AI talent to the USG
- The hiring authorities and pay scales the government uses to attract STEM talent in general and AI talent in particular
- How cultural issues, particularly within human resources, hinder the recruitment and retention of AI talent
- How technical integrators and other traditionally structured companies hire, train, and model their AI workforce, particularly regarding the use of hub and spoke models and compensation
- How might NSCAI, the Defense Innovation Board, and the Joint Artificial Intelligence Center agree to a common framework for the USG AI workforce
- Draft recommendations based on findings from the first two working group sessions

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The Commissioners Agreed:

- Organizational structure is as important as recruitment, upskilling, and the number of experts in a team.
- The government needs to increase opportunities for AI practitioners to cross-collaborate on projects.
- The Commission needs to acknowledge that there's a land rush for AI talent, and while the government can become more competitive using existing hiring authorities, it is unlikely to compete effectively via financial compensation. The government has other recruiting mechanisms like scholarships and the value of public service, both as a career investment and as a contribution to the public good, that can compete if used intelligently.
- The government needs to establish hubs for data science and AI/ML expertise that will help drive change into spokes and sustain it, disseminate results and methods, connect practitioners, increase awareness of efforts, and manage talent.
- Cultural issues, slow onboarding, and risk-averse human resource practices hold up progress as much as technical issues.

The Commissioners Next Steps include:

- More precisely define the national security departments and agencies.
- Continuing addressing workforce and organizational structure issues while beginning to shift focus towards immigration and education issues. Education issues will include K-12, undergraduate, and graduate levels, and will address diversity challenges in the AI/ML workforce.

The Commission Staff will:

- Update the research memo to incorporate commissioner feedback. This includes highlighting areas of commissioner consensus, follow on research, and adjusting recommendations as indicated during the working group session.
- Update the workforce framework with illustrative examples of job titles falling within each archetype.
- Continue engaging DIB and JAIC about the joint workforce framework, and will provide the commissioners an update no later than September 19.
- Regularly provide updates and seek guidance from commissioners about immigration and education research, including an initial assessment of high skill immigration and the state of literature about AI/ML education.

WORKING GROUP 4:

Ensuring International Cooperation and Competitiveness in AI

WORKING GROUP 4 MEETING

September 16, 2019 NSCAI Headquarters

(b) (6)

PURPOSE

- Understand the efficacy of existing domestic export-control laws and policies as they relate to AI, and where gaps currently exist.
- Discuss efforts to implement multilateral export control regimes regarding specific cyber tools, and lessons learned related to Al.
- Consider how the United States should weigh factors in developing a long-term competitive strategy against China in AI.
- Discuss the draft research memo and how it should inform the Commission's Interim Report.

ATTENDEES

COMISSIONERS

- · Jason Matheny (WG Chair) Georgetown University
- · Chris Darby In-Q-Tel
- Gilman Louie Alsop Louie Partners

STAFF

Ylli Bajraktari, (b) (6) NSCAI staff members
 Commission staff

DESIRED OUTCOMES

- Identify themes to further consider at September 17 joint WG meeting with the Public-Private Partnerships Special Project.
- Decide whether to approve or amend the draft research memo, and what the Working Group should recommend to the full Commission as its initial findings in October as part of the Interim Report.

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AGENDA	
0830-0900	LIGHT BREAKFAST AND COFFEE
0900-1000	SESSION 1: DOMESTIC EXPORT CONTROL - ECRA, ANPRM ON EMERGING TECH
	Speaker: (b) (6)
1000-1045	SESSION 2: MULTILATERAL EXPORT CONTROL - WASSENAAR ARRANGEMENT
	Speakers: (b) (6) Science and Technical Advisor, Department of State (b) (6) U.S. Wassenaar (b) (6) Department of State; • Lesson's learned from Wassenaar's attempts to control the spread of specific cyber tools • Perspective on pros and cons of adding Al-related software or hardware to Wassenaar Control Lists.
1100-1200	SESSION 3: CFIUS AND FIRRMA (CLASSIFIED)
	Speaker: Thomas Feddo, Assistant Secretary of the Treasury for Investment Security (b) (5) (b) (5)
1210-1300	SESSION 4/WORKING LUNCH: CHINESE COMPLIANCE WITH EXPORT CONTROLS
	 Speaker: John Larkin, Founder of Larkin Trade International (Via VTC) Overview of export control compliance challenges specific to China Industry perspective on impact of export controls in the high-tech sector, including AI
1300-1500	EXECUTIVE TIME: RESEARCH MEMO REVIEW, NEXT STEPS
1500-1700	SESSION 5: LONG TERM COMPETITIVE STRATEGY
	 Speakers: (b) (6) How should the Commission weigh factors in building a competitive strategy against China related to AI? Where does the U.S. have structural advantages and disadvantages? How can it leverage them? Is there any net assessment information that would be particularly helpful to the Commission?
1700-2000	COMMISSIONERS AND DISTINGUISHED GUESTS DINNER AT RUTH'S CHRIS



Working Group 4: Ensuring International Cooperation and Competitiveness in AI

Summary of Conclusions Working Group Meeting Monday, September 16, 2019, 830-1700

Working Group Objective: Consider ways to enhance U.S. global cooperation and competitiveness, leverage our alliances, and establish norms that advance U.S. values and interests.

Working Group Approach: Analyze the threat international actors pose to U.S. competitiveness, identify steps needed to ensure a level playing field for the United States and its allies, and diagnose areas that could benefit from U.S. leadership on AI cooperation. This includes an analysis of:

- 1. Entanglement vs competition with adversaries
- 2. Engagement with allies and partners
- 3. AI norms, benchmarks, and standards
- 4. Regulatory impact and tech transfer

Meeting Objectives:

- Understand the efficacy of current U.S. efforts to protect existing AI-related capabilities, including existing domestic and multilateral export-control laws and policies as well as investment security efforts, and where gaps currently exist.
- Consider how the United States should weigh factors in developing a long-term competitive strategy against China in AI.
- Discuss the draft research memo and how it should inform the Interim Report.

Commissioners in attendance:

- Jason Matheny, Chair
- Chris Darby
- Gilman Louie

Commissioners received briefs on:

- Domestic Export Control ERCA, ANPRM on Emerging Tech: NSC (b) (6)
 Office of National Security and Tech Transfer Controls, Dept of Commerce, Department of State.
- CIFIUS and FIRRMA (b) (6)
 Treasury (b) (6)
- Chinese Compliance with Export Controls Larkin Trade International
- Long Term Competitive Strategy (b) (6)

Key Takeaways from the Working Group Meeting:



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Commissioners agreed:

 To provide input on the revised memo between when staff updates it and September 27, when the first draft of the interim report will be completed.

To further examine issues surrounding (b) (5)

To enhance the Working Group's focus on (b) (5)

That WG4/the Commission must (b) (5)

To develop (b) (5)

The Commission Staff will:

 Update WG4 memo, with the following priorities: (Action: Staff by Monday September 23)



 Continue researching potential recommendations for the final report (Action: Staff during recommendations phase)

JOINT MEETING:

Working Group 4 and Special Project on Public-Private Partnerships

JOINT MEETING

September 17, 2019 (b) (6)

PURPOSE

- Assess national security risks and opportunities related to microelectronics and their supply chains
- Consider intersection of AI, future hardware, and national security
- Assess views of multinational corporations regarding U.S. – China cooperation and competition

ATTENDEES

COMMISSIONERS

· Chris Darby, Gilman Louie, Jason Matheny

STAFF

NSCAI Staff Members, (b)(6)

DESIRED OUTCOMES

- Understanding of microelectronics national security threats and opportunities.
- Recommendations for maintaining U.S. leadership in post-silicon integrated circuits
- Understanding of multinational corporations' perspectives on U.S.-China relations
- · Identify issues to raise at the Plenary in October

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GENDA	
0900-0915	WELCOME REMARKS
	Speakers: Ylli Bajraktari and NSCAI Staff
0915-1000	SESSION ONE: DEFENSE MICROELECTRONICS OVERVIEW
	Speaker: (b) (6) , OSD R&E Microelectronics (b) (6)
1000-1100	SESSION TWO: MICROELECTRONICS AND THE DEFENSE RESEARCH ENTERPRISE
	Speakers: Dr. Victoria Coleman, AtlasAl CEO and Defense Science Research Council Member (b) (5) (b) (5)
1100-1115	BREAK
1115-1230	SESSION THREE: INDUSTRY VIEW OF MICROELECTRONICS
	Participants: (b) (6) (Semiconductor Industry Association), (b) (6) (NVIDIA), (b) (6) (AMD), (b) (6) (IBM), Intel (T) • (b) (5) • (b) (5)
1245-1345	WORKING LUNCH: U.SCHINA RELATIONS AND MICROELECTRONICS
	Speaker: (b) (6) • (b) (5) • (b) (5) • (b) (5)
1345-1400	BREAK
1400-1500	SESSION FOUR: IC VIEW OF MICROELECTRONICS
	Participant: (b) (6) (ODNI) • (b) (5) NSCAI-FOIA-2020-009-000056
1500-1600	EXECUTIVE TIME - NEXT STEPS



Special Project on Public-Private Partnerships and Working Group 4 on Ensuring International Cooperation and Competitiveness in AI

Summary of Conclusions Joint Meeting on Microelectronics and Hardware Tuesday, September 17, 2019, 0900-1600

Meeting Objectives:

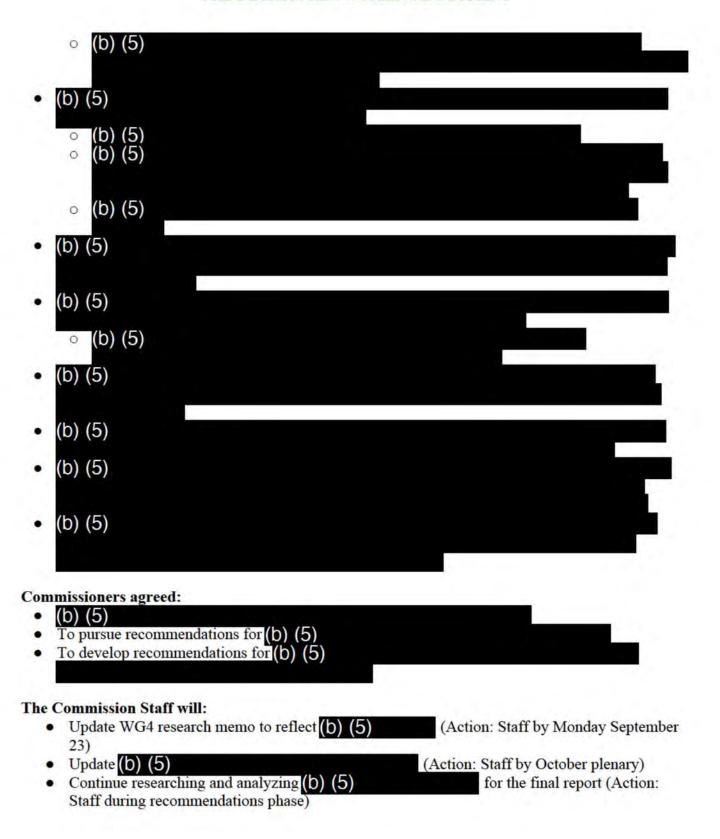
- Assess microelectronics national security threats and opportunities.
- Develop recommendations for maintaining U.S. leadership in post-silicon integrated circuits.
- Consider U.S. semiconductor industry perspectives on U.S.-China relations.
- Identify issues to raise at the Plenary in October.

Commissioners in attendance:

- · Jason Matheny, Chair
- Chris Darby
- · Gilman Louie

Con	nmissioners received briefs on:
•	Department of Defense (DoD) Microelectronics Strategy – (b) (6) Office of the Secretary
	of Defense (OSD) Research and Engineering (R&E) (b) (6) Defense Microelectronics Technology Strategy – (b) (6)
	Defense wicroelectronics recimology strategy – (b) (b)
•	Industry View of Microelectronics – Semiconductor Industry Association (b) (6) and
	(b) (6) IBM ((b) (6) , AMD (b) (6) Micron (b) (6)
	(b) (6)
•	U.SChina Relations and Microelectronics – (b) (6) U.S. Intelligence Community (IC) View of Microelectronics – (b) (6) Office of the Director of
	National Intelligence
	Tuttonia mengenee
Key	Takeaways from the Working Group Meeting:
•	(b) (5)
	(b) (E)
•	(b) (5)
	(b) (5)
•	(b) (5)

PRE-DECISIONAL // WORKING DOCUMENT



WORKING GROUP 1:

Maintaining Global Leadership In AI Research



Thursday, September 26, 1200-1600

(b) (6) Zila Floor Conlierence Room

Google Hangout

PURPOSE

- Convene a representative sample of stakeholders from the AI research community to refine the Commission's understanding of the challenges and opportunities for:
 - 1. cultivating AI research in the United States,
 - priority research areas,
 - 3. pursuit of public/private partnerships,
 - 4. national security-related efforts, and
 - open/closed research and development of publication norms.

DESIRED OUTCOMES

- Development of a better map of the AI research ecosystem, understanding of common challenges, and assessment of available funding mechanisms/policy options.
- Consensus on WG1 research findings for the interim report.

ATTENDEES

COMMISSIONERS

- Andrew Moore, Google Cloud AI Chair of Working Group
- · Eric Schmidt, Schmidt Futures
- · Eric Horvitz, Microsoft Research Labs



GENDA	
1200-1210	WELCOME REMARKS & AGENDA SETTING
	Speakers: (b) (6) and (b) (6) , NSCAI Staff
1210-1310	SESSION ONE: VIEW FROM NON-GOVERNMENT AFFILIATED LABS
	Speakers: Nancy Amato, Head, Department of Computer Science, University of Illinois at Urbana-Champaign Aude Oliva, MIT Executive Director, MIT-IBM Watson AI Lab (b) (6) (b) (6) (b) (6) (b) (6) (c) (b) (6) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
1310-1320	BREAK
1320-1410	SESSION TWO: VIEW FROM GOVERNMENT-SPONSORED AND OWNED LABS
	Speakers: Ralph Semmel, Director, JHU Applied Physics Lab Christine Fox, Assistant Director, Policy and Analysis, JHU Applied Physics Lab Robert Bond, Chief Technology Officer, MIT Lincoln Laboratory Jason Stack, Autonomy Portfolio Manager, Office of Naval Research
1410-1530	EXECUTIVE DISCUSSION: RESEARCH MEMO
	Topics for discussion: Commission view of the AI research environment Assessment of federal role in AI research AI R&D in the national security sector National security implications of AI R&D
1530-1600	EXECUTIVE DISCUSSION: WG NEXT STEPS
	Topics for discussion: Identification of areas for deep dive analysis NSCAI-FOIA-2020-009-000059

November conference



Working Group on Maintaining Global Leadership in AI Research

Summary of Conclusions Meeting #3 NSCAI Offices | Google Hangout 26 September 2019, 1200-1600

Working Group Objective: Identify concrete steps the US government, through policy reforms, incentives, or appropriations, can help accelerate academic research and commercial innovation in Al.

Meeting Objective: Convene a representative sample of stakeholders from the AI research community to refine the Commission's understanding of the challenges and opportunities for maintaining U.S. leadership in AI:

Commissioners in attendance:

- · Andrew Moore, Chair
- Eric Schmidt

Commissioners discussed:

- 1. Research Organizations not affiliated with the government
 - Talent is key. The U.S. needs to be educating more students and keeping more scientists in
 academia. In addition, the talent pool needs to be expanded to build a more robust and diverse
 pipeline into universities as well as directly into the commercial sector or government.
 - Government contractors encounter talent constraints from restrictions on citizenship, salary competition, and geographic constraints connected to classified work.
 - There is tremendous interest in the field from students, but universities are not able to take full
 advantage of the moment due to resource constraints. There aren't enough resources to expand
 computer science and related programs. Funding should not be zero sum within computer science
 or across scientific R&D generally.
 - Academic AI research is in need of more funding, computational resources, and data sets.
 Funding should be expanded to include more flexible modes that allow researchers to pursue bigger picture, moonshot efforts, i.e. NIH Maximizing Investigators' Research Award (MIRA).
 - Industry funding of research has picked up with interest of non-technical companies in the field, but there is an enduring role for government support to fill the gaps in areas of basic research that private companies are not inclined to fund.
 - Development of mechanisms for more secure sharing of data across academia, industry and government will strengthen research and the resulting technology.
 - More opportunities for interdisciplinary research will strengthen our ability to fully leverage AI
 and develop the field.
- 2. Research Organizations affiliated with the government

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We are at an inflection point in AI. With the right emphasis, we can extend the current AI spring
to have a dramatic impact on the welfare and security of our nation.



- We shouldn't only focus on AI and neglect the rest. This is true for funding, as well as for hardware, software, and compute. Also important to think about building in cybersecurity from the outset, particularly into new computing architectures.
- There is a need to push forward research on testing and evaluation of AI systems. Need to establish and put in to practice new approaches.



Commissioners agreed:

- Need to develop a strategy to build a portfolio of AI skills across the U.S., from amateur hackers to
 visionary thought leaders. Training opportunities should be varied, with multiple on ramps and off ramps.
- There is value in piloting mechanisms to bring in non-traditional talent from a broader population, like AI hackathons for high school students.
- AI research does not have enough money, talent, or compute. It needs more funding and more flexible funding, and we undervalue foreign students.
- (b) (5)(b) (5)

The Commission Staff will:

- Integrate Commissioner feedback into the interim report.
- Develop a general narrative about research priorities and a separate classified document that details
 national security mission areas and technology research areas. The staff will consult with national security
 agencies, industry and academia to inform the products; develop unclassified and classified narratives;
 and recommend delivery and timing options.



Pre-decisional - Draft Only

Ethics Special Project Meeting

Date: October 10
Location: (b) (6) , 2nd Floor Conference Room, Arlington, VA

Objective: Assess the landscape of Al & Ethics initiatives across the national security enterprise and identify trustworthy Al concerns

8:45 - 9:10	Light Breakfas	st and Coffee*		
	the NSCAI Office (b)) (6)	for breakfast, Introductory	
9:10 – 9:15	Introductory R	Remarks for Comm	nissioners	
(b) (6)				
	s: Yll Bajraktari, NSC/ roject Lead	Al Executive Direct	tor, and (b) (6) , NSCAI Et	hics
		ng DHS representat	ght Board (PCLOB) [Closed Sestion, and more: (b) (6) ivil Liberties Oversight Board	sion]
**Please proceed	d to the 2nd Floor Col	nference Room for	r the rest of the day's events.	

Speakers: Yll Bajraktari, NSCAI Executive Director, and (b) (6)

Check-in and Welcome for DOD, IC and DHS

Session 1: Overview of AI & Ethics Initiatives in IC & DoD

- What AI ethics principles are being prioritized?
- What processes are in place, or plans underway, to operationalize them in AI development and use?
- What are the next steps?

Special Project Lead

9:35 - 9:45

9:45-11:00

9:45 – 10:15 DoD Speakers: (b) (6) , Institute for Defense Analyses

, NSCAI Ethics



(working with DARPA); (b) (6) , Army AI Taskforce; (b) (6) SGE attached to the DIB for its AI Principles (b) (6)

10:15 – 11:00 IC Speakers: (b) (6) , IC Office of Civil Liberties, Privacy & Transparency; (b) (6) , AIM-JAIC Initiative; (b) (6) , National Security Agency; (b) (6) , Office of the Director of National Intelligence

11:00 – 12:00 Working Lunch: Focused Discussion (b) (6)

Similarities, differences, and motivations across the above

12:00 – 13:45 Session 2: Overview of Internal & External Concerns for IC, DoD, & DHS

(b) (6)

- What are internal pain points for trustworthy development and use?
- What concerns do you perceive among external stakeholders?
- What are your recommendations to improve trustworthy development and use?

12:00 – 12:45

IC Speakers: (b) (6)

& Transparency; (b) (6)

National Security Agency; (b) (6)

National Intelligence

DoD Speakers: Josh Marcuse, Defense Innovation Board; (b) (6)

Institute for Defense Analyses (working with DARPA);
(b) (6)
, Army Al Taskforce

13:15 - 13:45 DHS Speakers: (b) (6) , DHS Privacy Office; (b) (6) (b) (6) DHS Office for Civil Rights and Civil Liberties

13:45 – 14:45 Focused Discussion (b) (6)

. Internal and external concerns across the above

14:45 - 15:00 Coffee Break

15:00 - 15:30 Integrative Discussion

Contribution requested from those choosing to partake in provided food and beverages.



(b) (6)

 Develop next steps, key open questions, and additional resources that should be considered

15:30 – 16:00 Executive Time [Closed Session] (b) (6)

16:00 Adjourn

^{*} Contribution requested from those choosing to partake in provided food and beverages.



Special Project on Ethical Development and Use of AI

Summary of Conclusions: Meeting #1 NSCAI Offices | Google Hangout 10 October 2019, 0910-1600

Working Group Objective: Determine the principal ethical considerations that relate to AI advancement across the national security apparatus and recommend concrete mechanisms to further the responsible use of AI for national security and defense needs.

Meeting Objective: Assess the landscape of AI & Ethics initiatives across the national security enterprise and identify trustworthy AI concerns.

Commissioners in attendance:

Jason Matheny

Key Findings:

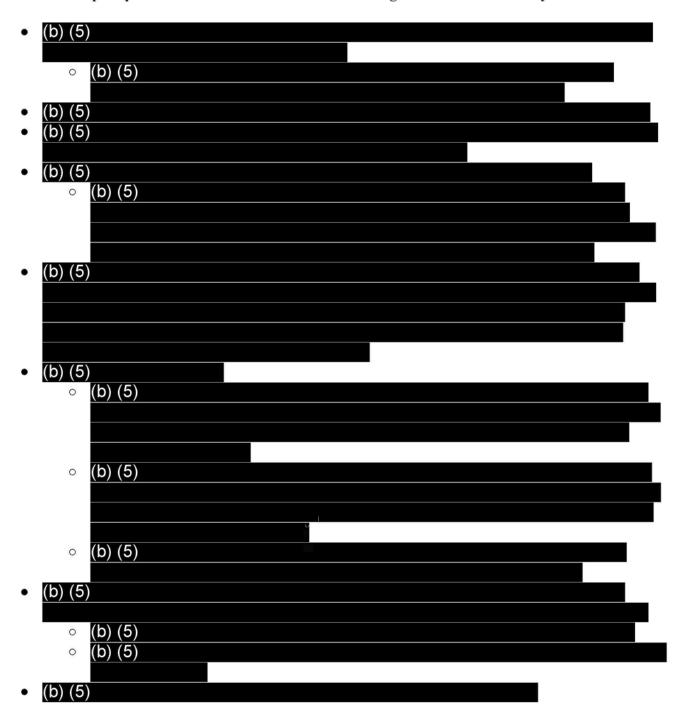
I. Current AI & Ethics initiatives: How do DOD, IC, & DHS compare?



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(b) (5) (b) (5)

II. Shared pain-points and recommendations for furthering ethical and trustworthy AI



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0	(b) (5)
	(b) (5)
0	(b) (5)

Open questions to explore further:



The Commission Staff will:

- Integrate Commissioner feedback into the Interim Report.
- Plan November meeting with civil society groups.

Pre-Decisional

Plenary Call with NSCAI Commissioners October 24th, 2019

Draft Agenda

Purpose: Review, edit, and approve the interim report. Provide an update on the state of play regarding the conference on November 5th. Review the public affairs and legislative affairs plan for before, during, and after the launch of the report.

- 1. Interim Report
- 2. Conference "Strength Through Innovation the Future of Artificial Intelligence and US National Security
- 3. Public Affairs/Legislative Affairs Plan

1. Interim Report

General

- 1. What do you think the big "take away(s)" should be from the report? This will be key for integrating the report with remarks, op-eds, rollout strategy.
- 2. If ready, formal vote on the report -- either on the call (roll call vote), or later by email.
- 3. Alternative: The report needs to go for security review no later than next Wednesday.

Particular issues about the interim report

- 1. LAWS -- Note how we address this in a few lines in the intro, rather than a stand-alone section. Is everyone comfortable with this approach?
 - 2. DoD Cloud -- In condensing the report we realized that we cut some of the details on enabling infrastructure, including Cloud. We will be adding a few sentences to the LOE2 infrastructure judgement:

Modernizing DoD's IT infrastructure is a key aspect of preparing the department for an AI future. This includes investment in cloud computing platforms necessary for data storage, compute resources, network communications, and algorithm development.

3. AI Workforce Matrix (in Appendix) -- Ensure commissioners are familiar with this and the agreement with DIB and JAIC to make it a joint proposal.

[Background: WG 3 has developed this model with the DIB and JAIC to show DoD a united front on how it should frame AI workforce challenges. DIB is voting on the model at their public meeting on Oct 31, and JAIC is going through the final review process. Pending their endorsement, we would like our appendix to include their logos.]

2. November 5th Conference

Admin/Logistics:

-- We are in a very good place (201 RSVP - Thanks to those who offered to offset attendees' costs, but no need for Commissioners to support the event, most of the speakers confirmed ((b) (5)

- We need you to register as soon as possible.
- -- Please let us know if we can assist you with travel and lodging.

Pre-Decisional

Content

- -- We will provide the ebook on October 30th and a binder the day of the conference.
- -- The ebook contains: scene setters for each of the panels, talking points, biographies, etc.
- -- We have managed to assign different roles for you in order to have a good coverage of all the VIPs speaking and attending. If you prefer not to be on stage please let us know. The less of us on stage and more time for the audience to engage the better.

3. Public Affairs/Legislative Affairs

- -- Before: media roundtable, SD op-ed, Commissioners op-ed.
- During: ~20 journalists at the conference, social media
- -- Reminder that you represent the NSCAI NOT/NOT your individual capacity.
- --After: Media interviews PLEASE LET US KNOW IF YOU CAN HELP BASED ON YOUR AVAILABILITY AND PREFERENCE
 - Hill engagements



Ethics Special Project Meeting

Date: December 12

Location: (b) (6)

Objectives:

- (1) Survey a representative sample of the AI ethics community on criteria for ethical and trustworthy design, development, and deployment.
- (2) Explore where desired criteria converge and diverge from those in the national security community.

9:30 - 10:00 Light Refreshments and Coffee

10:00 – 10:10 Welcome & Introductory Remarks

Speakers: Yll Bajraktari, NSCAI Executive Director, and (b) (6)
 NSCAI Ethics Lead

10:10 – 12:30 Workshop Session 1: Ethical concerns and boundaries for Al-enabled Weapon Systems

(b) (6)

- 10:10 10:25
 - Open with roundtable quick introduction: name & organization affiliation.
- 10:25 11:15
 - Open with: "What are the questions that the Commissioners should be considering that no one else has asked or is trying to answer?" (question will be e-mailed in advance)
 - Small sub-group discussion break room into groups for discussion*:
 - Group 1: (b) (6) (International Committee of the Red Cross via VTC); (b) (6) (Amnesty International via VTC); (b) (6)
 (IDA); (b) (6) (OJAG); (b) (6) (Center for a New American Security); (b) (6)
 - Group 2: (b) (6) (Human Rights Watch for the Campaign to Stop Killer Robots); (b) (6) (Arms Control Association); (b) (6) (DoS); (b) (6) (Southern Methodist University); (b) (6) (USMC); (b) (6) (USAF JAG)

- Group 3: (b) (6) (Duke University); (b) (6) (Harvard Law PILAC); (b) (6) (DoD T&E); (b) (6) (DoD OTJAG)
 (b) (6) (New School/International Committee for Robot Arms Control)
- 11:15 12:00
 - Recombine into larger group Each group provides their top 5 inputs in response to the question to present what was discussed
- 12:00 12:30 Roundtable closing comments and any alibis
- * Commissioners and SGEs float between group discussions. Commission staff attend each group & take notes.

12:30 - 1:00 Lunch Break

1:00 – 4:00 Workshop Session 2: Ensuring Privacy & Civil Liberties Across the Al Lifecycle

(b) (6)

- 1:00 2:00:
 - From non-exhaustive list of AI principles provided (derived from the <u>DIB AI</u> <u>Principles</u> and the <u>Principled Artificial Intelligence project</u>), participants ID top 3 critical ethical AI principles necessary to guide the design, development, and deployment of AI across the national security enterprise (or flag any critical missing principles) and explain why (7 mins each).
- Deep-dive on what's concretely needed to implement principles across system design, development, and deployment; and categorize by perceived necessity/feasibility.
- Sub-group discussions* with participants divided in half
 - Group 1: (b) (6) (ACLU); (b) (6) (NIST); (b) (6)
 (b) (6) (Brookings Institute); (b) (6) (ODNI)
 - Group 2: (b) (6) (Human Rights Watch): (b) (6) (Upturn); (b) (6) (PCLOB); (b) (6) (ODNI)
 - 2:00 2:20: Technical musts and limitations
 - 2:20 2:40: Processes and policies
 - 2:40 3:00: Training implementation
- Entire group discussion
 - 3:00 3:20: Technical musts and limitations
 - 3:20 3:40: Processes and policies
 - 3:40 4:00: Training implementation

4:00 – 4:30 Executive Session

Discuss key findings and next steps



Working Group on Ethical AI for National Security

Summary of Conclusions

(b) (6) , In-Person Meeting #2 | December 12, 2019 | 0930 - 1630

Working Group Objective: Determine the principal ethical considerations that relate to AI advancement across the national security apparatus and recommend concrete mechanisms to further the responsible use of AI for national security and defense needs.

Meeting Objectives:

- (1) Survey a representative sample of the AI ethics community on criteria for ethical and trustworthy design, development, and deployment.
- (2) Explore where desired criteria converge and diverge from those in the national security community.

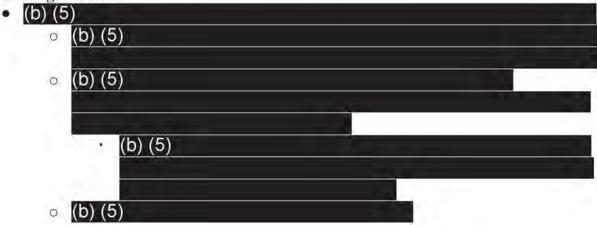
Workshop Session I: Ethical Concerns and Boundaries for AI-enabled Weapon Systems

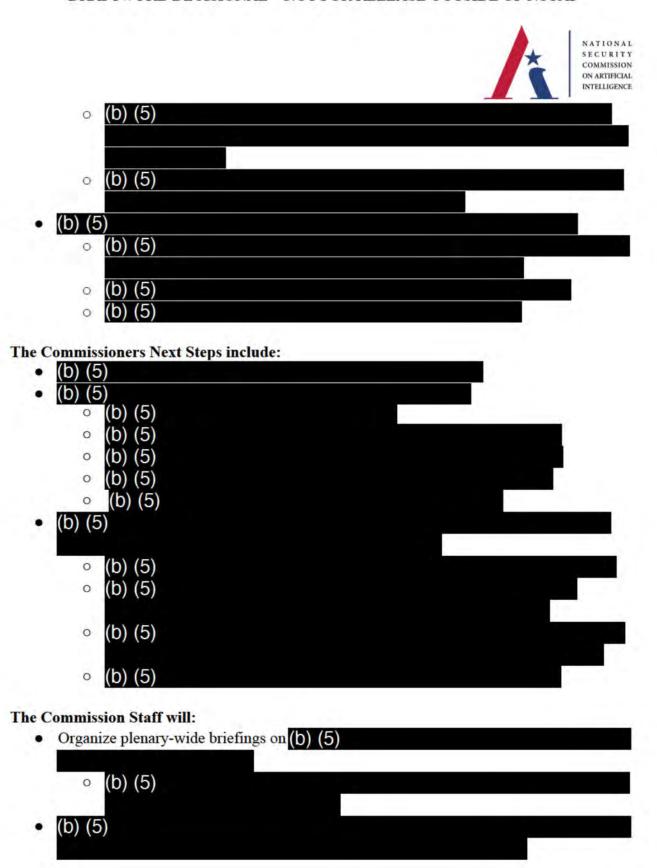
Commissioners in Attendance: Hon. Bob Work and Dr. Eric Horvitz (VTC)

Commissioners and Participants Discussed:

- Grounding question: "What are the questions that the Commissioners should be considering that no one else has asked or is trying to answer?"
- Three themes stemmed from the responses: (1) what is the acceptable level of human control/judgment?; (2) what level of performance is acceptable for AI-enabled weapons systems and what are the associated certifications?; (3) what norms are needed for global stability and/or to mitigate unintended escalatory dynamics?

Areas of agreement:







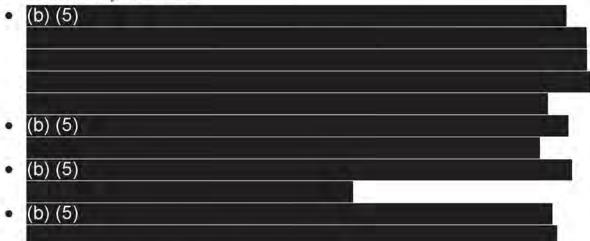
Workshop Session II: Ensuring Privacy & Civil Liberties Across the AI Lifecycle Commissioners in Attendance: n/a

Commissioners and Participants Discussed:

- Critical AI principles that the national security enterprise needs to operationalize to ensure privacy and civil liberties
- Recommendations to operationalize these principles (technical musts; policies and processes; training)

Areas of agreement:

Broad agreement existed between participants from government and civil society on the
principles that are most critical to operationalize: auditability/traceability/explainability;
privacy; fairness and non-discrimination; due dilligence/risk assessment; and
accountability and redress.



The Commissioners Next Steps include:

 Provide feedback on research path forward for ensuring privacy and civil liberties in AI for national security.

The Commission Staff will:

• (b) (5) • (b) (5) • (b) (5)

PLENARY 4:

Table Top Exercise, Classified Report to Congress, and 2020 Plan



PLENARY MEETING

Wednesday, January 15, 2019 Pentagon (b) (6)

PURPOSE

- Participate in a Table Top Exercise to inform and support the Commission's study of the national security implications of AI in a great power competition.
- Review and discuss the Classified Report due to Congress.
- · Review and discuss the 2020 Plan.

DESIRED OUTCOMES

- Understand the challenges facing the U.S. in the mid to late 2020's in AI.
- · Finalize the NSCAI Classified Report
- Approve NSCAI 2020 Plan.

ATTENDEES

- · Commissioners
- · Commission Staff
- TTX will include (b) (5)
 Assistant to the Joint Chiefs of Staffs, LTG Waddell

AGENDA	
0845-0900	COFFEE AND REFRESHMENTS
0900-1200	TABLE TOP EXERCISE (TTX)
	Lead by Joint Staff
1200-1300	LUNCH AND TTX DEBRIEF
	Lead by Joint Staff
1300-1530	REVIEW CLASSIFIED REPORT
	Purpose and Content
	Commissioners Read Time
	Discussion and Review
1530-1630	2020 PLAN
	2020 Calendar: Ylli Bajraktari
	Legislative Affairs: NSCAI Staff Members, (b)(6)
	FOIA/FACA Update: Michael Lueptow
1630-1645	CONCLUDING REMARKS



Working Group on Preparing the National Security Workforce For An AI Future

Date: February 18, 2020, 1000-1700 (all time are in Eastern Time)

Location: NSCAI Offices, Second Floor Conference Room

Meeting Objective: Review Quarterly Recommendations and Baseline STEM Education

1000 - 1015 Welcome Remarks

Speaker: (b) (6) , NSCAI Director of Research and Analysis

1015 - 1100 Session One: [Unclassified] Review 1st Quarter Recommendations

Speaker: (b) (6) , NSCAI Director of Research and Analysis

1100 – 1145 Session Two: [Unclassified] Assess 2nd and 3rd Quarter Recommendations Questions:

- How will the FY2020 NDAA affect NSCAI workforce recommendations?
- Which, if any, topics should shift quarters?

Speaker: (b) (6), NSCAI Director of Research and Analysis

1145 - 1200 Break

1200 - 1230 Session Three: [Unclassified] Lunch and Introduction to Education Legislation

Speaker: (b) (6) , NSCAI Director of Legislative Affairs

1230 – 1330 Session Four: [Unclassified] What Skill Sets Does STEM Education Need to Provide the National Workforce?

Questions:

• (b) (5)

Speakers:

Dr. Carl Benedikt Frey, author of The Technology Trap and Oxford Fellow



- (b) (6)
 Bureau of Labor Statistics
- (b) (6)
 , National Science Board Task Force on the Skilled Technical Workforce
- (b) (6) , Economic Graph Team at LinkedIn

1330 – 1430 Session Five: [Unclassified] How might Americans receive STEM education? Questions:

(b) (5)
(b) (5)
(b) (5)
(b) (5)

Speakers:

- William Symonds, Western Governors Association Pathways
- · Payton May, Chief Operations Officer, Bit Source
- (b) (6)
 National Science Board Task Force on the Skilled Technical Workforce

1430 - 1445 Break

1445 - 1700 Executive Session

Discussion Topics:

- 3 Key Takeaways
- 3 Next Steps
- Next Working Group Topic and Location
- Framing Education Research
- · Commissioner and staff way ahead



Working Group on Preparing Our National Security Workforce for an AI Future

Summary of Conclusions

NSCAI Offices In-Person Meeting #4 | February 18, 2020 | 1000 - 1530

Working Group Objective: Determine the current status of the AI workforce and recommend concrete steps the United States should take to build and maintain an AI workforce that can address national security and defense needs of the United States.

Working Group Approach: Through a comprehensive analysis and assessment of the U.S. national security AI workforce, develop recommendations to maintain U.S. leadership through AI in the national security apparatus, to include:

- · Recruiting, training, educating, and, as needed, retaining the government AI workforce
- Assessing and reforming STEM education across the United States
- Attracting and retaining international talent in the United States

Meeting Objective:

Review Quarterly Recommendations and Baseline STEM Education

Commissioners in Attendance:

- Dr. Jose-Marie Griffiths
- Dr. Bill Mark
- Ms. Mignon Clyburn

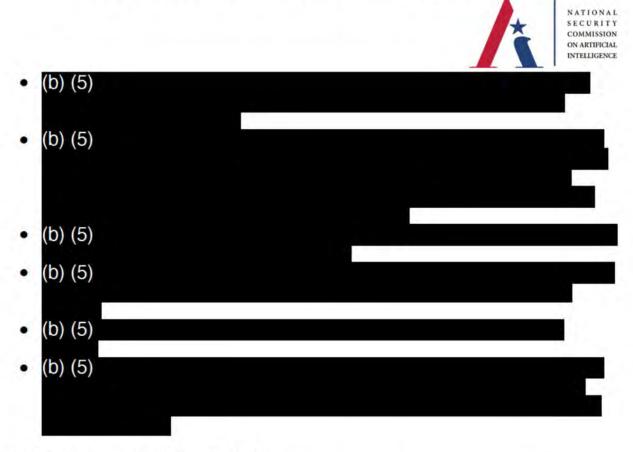
Commissioners Discussed:

- Recommendations about improving the government hiring process for AI practitioners
- Recommendations to improve the baseline understanding of AI and identification of existing and potential internal talent
- Recommendations to build recruiting pipelines and increase permeability between the public and private sectors
- The most common STEM education legislative vehicles and their history of use
- The skill sets the STEM education system needs to provide the national workforce
- The ways Americans receive STEM educations

The Commissioners Agreed:

• (b) (5)

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The Commissioners Next Steps include:

 Continuing addressing STEM education while partially shifting focus towards immigration issues.

The Commission Staff will:

- Update recommendation memos and send them to the workforce commissioners for their final review.
- Build civilian AI reserve recommendations for the second quarter.
- Coordinate a working group in Pittsburgh (b) (5)



LOE 6: Ethics & Responsibilities Q1 Meeting Agenda

February 20, 2020 Location: Microsoft Offices Seattle, WA

Participants: Eric Horvitz, Jason Matheny, Mignon Clyburn

Objective: Reach a consensus on which recommendation memos should be voted on at the March plenary, and what optimizations are needed for each prior to the vote.

Notional agenda (all times in PST)

0845-0900 Staff arrive on-site at Microsoft

0900-1000 Chair's vision of top priorities the LOE should focus on

1000-1100 Review current Q1 deliverables with LOE 6 Chair

- Discuss which memo topics to elevate for broader consideration amongst LOE6 Commissioners at the 1100-1400 session. Memo topics and recommendations include
 - o AI Principles
 - o Ethics Training (to complement LOE3)
 - o Improving procurement
 - o Potential R&D areas (to complement LOE1)

1100-1400 Working Lunch: Review and discuss LOE 6 research memos

Dial in details: (b) (6) Conference ID: (b) (6) or call(b) (6)

- Tentatively discuss recommendations for Principles, Training, Procurement, TEVV, and Privacy-Preserving R&D.
- Determine optimizations needed before raising any or all memos to plenary level vote.
- Discuss recommendation options for each memo and seek consensus on preferred course of action.

1400-1500 Executive Time

- Recap the way forward for Q1.
- Integrate Chair feedback into Q2 plan and priorities.
- Preferred time allocation/weights across topics moving forward (noting Q4 heavy lifts)

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Working Group on Ethics & Responsible AI Summary of Conclusions

Meeting #3: Microsoft Offices In-Person | February 20, 2020 | 0900 - 1700

<u>Working Group Objective:</u> Determine the principal ethical considerations that relate to AI advancement across the national security apparatus and recommend concrete mechanisms to further the responsible development and use of AI for national security and defense needs.

Meeting Objective:

Reach a consensus on which recommendations should be considered and voted on by the full Commission at the March plenary, and what optimizations are needed for each prior to the vote.

Commissioners in Attendance:

- Dr. Eric Horvitz (Chair)
- Ms. Mignon Clyburn
- Dr. Jason Matheny

Commissioners Discussed:

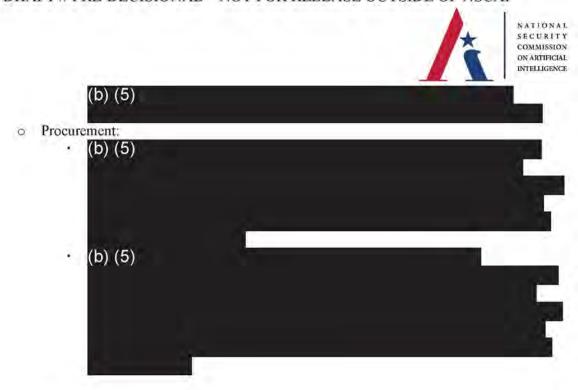
- Beyond principles, which are less actionable, a model is needed to encompass the breadth of
 <u>Considerations for Responsible Development and Fielding of AI</u>. Of these, Ethics (grounded in
 values) is only the first pillar. Other considerations should include Performance, Engineering,
 Human-AI Interaction, and Accountability.
- Training and procurement recommendations to present at the March plenary.

The Commissioners Agreed:

- To endorse the proposed five considerations, i.e. Values, Performance, Engineering, Human-AI Interaction, and Accountability, that will map to this LOE's future recommendations. These considerations should be articulated, at a high level, in Q1. In subsequent quarters (b) (5)
- Recommendations in three areas should be brought to the March plenary for consideration:
 - Considerations for the Responsible Development and Fielding of AI
 - Training: Incorporate Ethics & Responsibilities Training into both General and Specialized AI Courses.



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The Commissioners Next Steps include:

- Send any desired tweaks to the aforementioned Considerations list (linked above)
- Provide recommended speakers for (b) (5)

The Commission Staff will:

- Draft and send prose that further explains the five areas of Consideration
- Send Q1 revised recommendations in early March

Note: (b) (5)



LOE 1: Invest in AI R&D Q1 Meeting Agenda

February 24, 2020

Location: Gates-Hillman Center, Gordon Bell Conference Room, Room 5117 Carnegie Mellon University, Pittsburgh, PA

Participants: Andrew Moore, Eric Horvitz, Bill Mark, Steve Chien, Ken Ford

Objective: Reach a consensus on immediate research funding recommendation and engage with a range of actors from the Pittsburgh research community to gain feedback on the interim report and solicit their recommendations on optimal solutions.

0900-0910	Arrival and welcome
0910-1000	Review and discuss AI research priorities matrix (Commissioners only)
1000-1050	Review and discuss options on near term funding (Commissioners only)
1050-1100	Break

1100-1200 Roundtable with Software Engineering Institute and RAND

Dr. Paul Neilsen, Director/CEO, SEI

- Purpose: Solicit recommendations around evolving DoD's approach to FFRDCs, federal support to AI R&D infrastructure, data resources, and partnerships
- Participants:

De Matt Casta	- Director CEI Emercine Technology Center
Dr. Matt Gasto	n, Director, SEI Emerging Technology Center
David Thompso	on, Deputy Director/COO, SEI
(b) (6)	, CMU
(b) (6)	, CMU
(b) (6)	National Security Research
Division	
(b) (6)	Acquisition and Technology Policy Center,
National Defense	e Research Institute, RAND
(b) (6)	PI for RAND Arroyo (Army FFRDC)
Dr. Catherine A	Augustine, Director of RAND Pittsburgh Office
Dr. Lorrie Cran	nor, Director of CyLab, School of Computing Science, CMU
(b) (6)	School of Computing Science, CMU



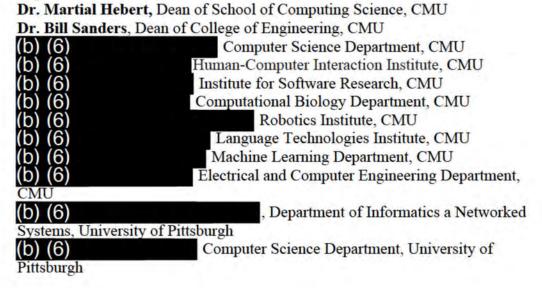


 Outcome: Gather specific recommendations from DoD-affiliated research community around actions to best leverage expertise and unlock innovation to strengthen current and future U.S. national security capabilities.

1200-1330 Working Lunch: Interim report discussion and feedback w/CMU and University of Pittsburgh CS and CE Faculty

 Purpose: Solicit feedback on interim report and recommendations around federal support for the AI R&D enterprise and mechanisms available to strengthen academia.

· Participants:



Guiding Questions:



- 1. (b) (5)
 2. (b) (5)
 3. (b) (b) (4. (b) (5)
- Outcome: Engage the academic community in an open dialogue and gain specific recommendations on areas where federal support can have greatest impact on the strength of AI R&D.

1330-1345 Break

1345-1430 Roundtable with Army AI TF and CMU

- Purpose: Discuss DoD-academia-industry partnership models and how the Commission can support a deepening of such efforts.
- Participants:

BG Matt Easley, Director, Army AI Task Force
(b) (6)
, Army AI Task Force
(b) (6)
, Army AI Task Force
(b) (6)
, Co-PI AIDTR
(b) (6)
, PI Predictive Mx
Rob Toth, Executive Director, Army AI Hub

Guiding Questions:
1. (b) (5)
2. (b) (5)
3. (b) (5)

 Outcome: Identification of specific roadblocks and opportunities for fostering more research collaboration around national security priority areas and moving research advances into the DoD enterprise



1430-1500 Roundtable with CMU and PITT Senior Leadership for Research

- · Participants:
 - Dr. Michael McQuade, VP for Research, CMU
 - **Dr. Mike Holland**, Vice Chancellor of Science Policy and Research Strategies, University of Pittsburgh
 - Dr. Paul Neilsen, Director/CEO of SEI
 - Dr. Bill Sanders, Dean of College of Engineering, CMU
- Purpose: Solicit feedback and recommendations around federal support for the AI R&D enterprise, mechanisms available to strengthen academia, and efforts to protect the research environment.
- Guiding Questions:
 - 1. (b) (5)
 2. (b) (5)

1500-1600 Executive Time (Commissioners Only)

- Purpose: Discuss takeaways from roundtables and plenary on 17 March
- Outcome: Frame recommendation-building efforts for Q2

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Working Group on Investments in AI R&D Summary of Conclusions

Meeting #4: Carnegie Mellon University | February 25, 2020 | 0900 - 1600

Working Group Objective: Identify concrete steps the US government, through policy reforms, incentives, or appropriations, can help accelerate academic research and commercial innovation in AI.

<u>Meeting Objective</u>: Reach a consensus on immediate research funding recommendations and engage with a range of actors from the Pittsburgh research community to gain feedback on the interim report and solicit their recommendations on optimal solutions.

Commissioners in Attendance:

- Dr. Andrew Moore (Chair)
- Dr. Eric Horvitz (remote)
- Dr. Bill Mark (remote)
- Dr. Steve Chien

Commissioners Discussed:

- Developing a FY21 funding recommendation for non-defense AI R&D that can expeditiously
 begin to address the weaknesses NSCAI addressed in the AI R&D environment: Federal funding
 not adequate to meet the growth in the field, weakening of academia through brain drain to
 industry, ability to build future talent pipeline, application of AI to other fields of science and
 engineering, and lagging pace of development of national standards.
- Recommendation around creation of a Task Force to develop a roadmap for and implement a
 pilot of a national AI research resource, which would provide access to subsidized cloud
 computing through public-private partnerships. ML-ready government data sets, and educational
 tools and support to first-time users.
- Developing national security priorities to focus AI research and development.
- (b) (5)

The Commissioners Agreed:

- Support to the research environment needs balanced investments in fundamental and applied research and support to academia should flow through diverse pathways – from project-based funding to community challenges to investments in specific investigators.
- The nation needs people who can stand on both sides of the fence and more pathways to routinely
 collaborate across open/closed research domains to keep pace with innovation.
- A Task Force and pilot approach is the right construct to pursue a national research cloud, with a
 more significant focus on the development of the design and data architecture the
 methodologies, standards, interfaces, and capabilities.

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The Commissioners Next Steps include:

- Send any further feedback on funding recommendation options
- Participate in follow up call to consider revised recommendations (Date/Time TBD)

The Commission Staff will:

- Send Q1 revised recommendations in early March and coordinate call with Commissioners to reach final consensus.
- Refine research priorities and share back out for LOE 1 Commissioner input.
- Begin to build recommendations to address how to deepen AI R&D at DoD FFRDCs and DoD
 owned and operated labs, and build data infrastructure to support the national security AI research
 enterprise.



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LOE 5 Meeting 1: Five Eyes and AI Meeting Agenda

Tuesday, February 25, 2020, 1300-1715 Location: Liberty Crossing 2, McLean, VA

<u>Meeting Objective:</u> Gain a baseline for current initiatives, efforts and best practices of Five Eyes partnerships within IC and DoD. Understand how Five Eyes capabilities can provide a framework for cooperative planning, data sharing, procurement and interoperability regarding AI. Inform LOE 5 analytical priorities and products to develop appropriate recommendations to Congress.

Guiding Discussion Questions:

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- (b) (5)
- · (b) (5)
- 1. 1300-1305 Welcome Remarks and Agenda Setting

Speakers: NSCAI and Office of the Director for National Intelligence

2. 1305-1405 SESSION ONE: IC Briefing on Five Eyes

<u>Speakers</u>: Office of the Director for National Intelligence
Participants: CIA, DIA, NSA, NGA FBI

3. 1505-1605 SESSION TWO: DoD Briefings on Five Eyes

Speakers: (a) OUSD(I) Warfighter Support Project Maven,

(b) U.S. Navy Undersea Warfare Combat Systems

Department, Director of Science and

Technology (TTCP AISC)

4. 1605-1650 SESSION THREE: State Department Briefing on (b) (5)

Speakers: (a) Bureau of Economic affairs, Office of

Multilateral Affairs

(b) Bureau of Arms Control, Verification and Compliance, Office of Emerging Security

Challenges

5. 1650-1715 EXECUTIVE DISCUSSION

Participants: NSCAI Commissioners and Staff

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Working Group on Marshalling Global Cooperation in AI Summary of Conclusions

Meeting #1: | February 25, 2020 | 1300-1645

Working Group Objective: Develop options to maintain U.S. global leadership in AI and associated technologies in order to advance U.S. national security objectives.

<u>Meeting Objective:</u> Gain a baseline for current initiatives and efforts of Five Eyes partnerships within IC and DoD. Understand how Five Eyes capabilities can provide a framework for cooperative planning, data sharing, procurement and interoperability regarding AI. Inform analytical priorities and products in order to develop recommendations to Congress.

Commissioners in Attendance:

- Dr. Jason Matheny (Chair)
- · Mr. Gilman Louie

Commissioner Briefings:

 Commissioners received classified briefings from the Intelligence Community and Department of Defense on Five Eyes efforts and initiatives related to AI. State Department representatives briefed (b) (5)

The Commissioners Discussed:

- (b) (5)
- (b) (5)
- (b) (5)
- (b) (5)

The Commissioners Agreed:

- to refine a set of initial recommendations to present to the March plenary.
- to evaluate (b) (5)

The Commissioners Next Steps Include:

Consider initial recommendations at the March plenary.

The Commission Staff will:

Prepare recommendations in the appropriate format and level of classification.

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Line of Effort 4:

Protect and Build on U.S. Technology Advantages

LOE 4 MEETING

Wednesday, February 26, 2020 2800 Crystal Drive, Arlington, VA 22202 Second Floor Conference Room

PURPOSE

- Select recommendations to accelerate U.S. advantages in All through targeted investments in microelectronics and 5G in FY 2021 NDAA and appropriations bills
- Discuss next steps for the plenary and future quarterly recommendations

DESIRED OUTCOMES

- Agree on recommendations LOE4 will present to March 17 NSCAI Plenary meeting, for vote on whether to transmit to Congress in Q1 2020.
- · Discuss next steps and way forward for LOE4 in Q2 2020.

RESEARCH QUESTIONS

- What can the United States do in the near-term to deliver secure, advanced microelectronics for national security applications of AI?
- What research should the United States prioritize to ensure leadership in the next generation of microelectronics breakthroughs?
- What immediate steps can the United States take to promote domestic 5G development and create an alternative to Huawei?

ATTENDEES

Commissioners:

Chris Darby, Gilman Louie, and Dr. Jason Matheny

NSCAI Staff:

Ylli Bajraktari, NSCAI Staff Members, (b)(6)



0900-0910	WELCOME REMARKS
	Speakers: Ylli Bajraktari and NSCAI Staff
0910-1000	SESSION ONE: REVIEW Q1 RECOMMENDATIONS MEMO
	Objective: Review and discuss initial feedback from Commissioners on the draft recommendations memo.
1000-1045	SEESSION TWO: ADVANCED PACKAGING FOR AI OPTIONS
	Speakers: (b) (6) and (b) (6) - Naval Surface Warfare Center, Crane Division, Joint Federated Assurance Center
	Objective: Hold technical discussion with NSWC Crane regarding its proposal to expand DoD's advanced packaging and testing program for heterogeneous integration of specialized AI- enabling microelectronics.
1045-1100	BREAK
1100-1200	SESSION THREE: SPLIT MANUFACTURING OPTIONS
	Speaker: (b) (6) Supply Chain and Cyber Directorate, National Counterintelligence and Security Center, Office of Director of National Intelligence
	Objective: Hold technical discussion with (b) (6) regarding near-term options for U.Sbased st of-the-art, front-end-of-line semiconductor manufacturing facility.
1200-1300	WORKING LUNCH: HARVARD KENNEDY SCHOOL REPORT ON SEMICONDUCTORS
	Speakers: (b) (6) and (b) (6) , Harvard Kennedy School
	Objective : NSCAI staff is working with two Harvard Kennedy School students to conduct a study on securing the U semiconductor supply chain. The students conducted over 30 interviews, including in Taiwan, Tokyo, California, Do and Boston. The students will brief on the preliminary results of their study, which will inform LOE4's Q1 and Q4 wo on microelectronics and supply chain security.
1300-1400	EXECUTIVE TIME - NEXT STEPS
	 Objectives: Discuss and agree to LOE 4 recommendations to present to 17 March NSCAI Plenary meeting, and/or propose edits, alternatives, and way forward. Discuss next steps for LOE4, and approach for Q2 2020, focused on recommendations on export controls, tech transfer, and investment reviews.



Line of Effort 4: Protect and Build on U.S. Technology Advantages Summary of Conclusions

Meeting #1: NSCAI HQ | February 26, 2020 | 0900 - 1400

<u>Line of Effort Objective:</u> Protect existing U.S. technology advantages, build upon U.S. advantages in AI-related hardware and microelectronics, and examine technologies associated with AI such as 5G, quantum, and biotech.

Meeting Objective:

Select recommendations among staff proposed options to accelerate U.S. advantages in AI through targeted investments in microelectronics and 5G in FY 2021 NDAA and appropriations bills.

Commissioners in Attendance:

- Dr. Jason Matheny
- Gilman Louie
- Chris Darby (via follow-up call with NSCAI Staff on 2/28)

Commissioners Discussed:

- What the United States can do in the near-term to deliver secure, state-of-the-art microelectronics for national security applications of AI.
- What research the United States should prioritize to ensure leadership in the next generation of microelectronics breakthroughs.
- What immediate steps the United States can take to promote domestic 5G development and create an alternative to Huawei.

The Commissioners Agreed:

- To endorse ten of the proposed thirteen options. The Commissioners also offered three additional recommendations. LOE 4 Q1 recommendations are broken into three groups, as outlined below:
 - Expanding Access to Secure, State-of-the-Art Microelectronics for AI:
 - Expand the Navy-led, DoD-wide existing state-of-the-art advanced packaging, assembly, and testing program. Create a state-of-the-art AI hardware demonstration prototype for multichip components (AI-MCP) by reprogramming \$50 million in FY 2020 or adding \$50 million in FY 2021.
 - Add funding for an accelerated site survey by the Office of the Director of National Intelligence for a U.S.-based state-of-the-art front-end-of-line (FEOL) semiconductor manufacturing facility by reprogramming \$XX million in FY 2020 funding or by appropriating \$XX million in FY 2021.
 - Fully fund the FY 2021 President's Budget request for DoD's Trusted and Assured Microelectronics Program.
 - Develop clear metrics and reporting mechanisms for transitioning AI-enabling microelectronics from research programs to operating forces.
 - Recommend developing a national microelectronics strategy.
 - Ensuring Leadership in Advanced Microelectronics Architectures:
 - Publish research priorities for beyond-CMOS AI hardware capabilities for national security applications.
 - Increase the budget of DARPA's Electronics Resurgence Initiative to \$500 million, with plans to further increase the funding to \$650 million in future years.



- Appropriate an additional \$50 million to the National Science Foundation for intended use on semiconductors and microelectronics research.
- Appropriate \$20 million to IARPA for prize challenges for AI-enabled hardware breakthroughs, such as focusing on electronic design automation improvements or decreasing the amount of time necessary to transition from algorithm to ASIC.
- Direct a 60-day study to determine the viability, efficacy, and cost of creating a
 national laboratory focused on microelectronics, with the goal of supporting
 national microelectronics research, providing small-scale fabrication capacity,
 and incubating early-stage semiconductor startups.
- Providing Near-Term Options to Enable the United States to Better Compete in 5G, and Create an Alternative to Huawei:
 - Urge FCC and DoD to license additional sub-6GHz spectrum for commercial 5G use.
 - Endorse the Utilizing Strategic Allied (USA) Telecommunications Act for 5G.
 - Fully fund the Administration's FY 2021 request for increased resources for 5G, including spectrum sharing R&D.
- Each of these recommendations represents a near-term opportunity that can be funded executed, or studied immediately. These options do not preclude additional, larger-scale recommendations, which the Commission will continue to pursue throughout 2020. They are meant to make an immediate impact, while preserving the Commission's optionality for the future.
- In Quarter 2 of 2020, LOE 4 will focus its recommendations on export controls, investment security, and technology transfer policy. It will also continue existing work into microelectronics and AI-related hardware.

The Commissioners Next Steps include:

- Send any desired changes to the above list of recommendations to staff (ACTION: Commissioners by Tuesday, March 3)
- Attend the next LOE 4 session to discuss export controls, tech transfer, and investment screening (ACTION: Tuesday, April 21)

- Revise the Q1 draft options memo to reflect feedback from Commissioners and distribute to LOE
 4 Commissioners (ACTION: Staff by Friday, March 6)
- Prepare to brief all NSCAI Commissioners on LOE 4's Q1 recommendations and key takeaways at the upcoming Plenary Meeting. Staff will support the discussion. (ACTION: Staff, with Commissioner input, on Wednesday, March 17)
- Package recommendations for transmission to Congress, if endorsed by the Plenary (ACTION: Staff by Friday, March 13)
- Follow up with key stakeholders within the government to update them on the LOE's work (ACTION: Staff by Friday, March 13)

LINE OF EFFORT 2:

Maintaining Global Leadership In National Security Application



LOE 2 MEETING

Friday, February 28, 2020

(b) (6)

Call-in via VTC

PURPOSE

- Select recommendations to enhance Department of Defense ability to adopt and apply AI.
- Discuss next steps for the plenary and future quarterly recommendations.

DESIRED OUTCOMES

- Agree on recommendations LOE 2 will present to the March 17 plenary meeting for a vote on submission to Congress and the Executive.
- Discuss recommendations for large-scale organizational change.

RESEARCH QUESTIONS

- How should DoD organize for the successful development and deployment of AI technologies at scale?
- What near-term changes can best support existing DoD AI efforts?
- What industry best practices could DoD leverage?

ATTENDEES

COMISSIONERS

 Ms. Safra Catz, Hon. Katharina McFarland, Dr. Steve Chien, Mr. Andy Jassy, Dr. Ken Ford, Hon. Robert Work

STAFF EXPERT LEADS

LTG (ret.) John Bansemer, former Assistant DNI

STAFF

Ylli Bajraktari, (b) (6)

(b) (6)

(b) (6)

AGENDA	1	
0900-0910 PT	1200-1210 ET	Welcome Remarks and Agenda Setting
		Speakers: NSCAI Executive Director and Staff
0910-0930 PT	1210-1230 ET	Read Out of the LOE 2 DoD AI Stakeholder Workshop
		Speakers: NSCAI Staff
0930-1000 PT	1230-1300 ET	Industry Best Practices & Observations
		Speakers: NSCAI Staff
1000-1100 PT	1300-1400 ET	Recommendation Session One - Q1 Near Term Recommendations (Proposals 1-9)
		Speakers: NSCAI Staff Presentation followed by Commissioner Discussion
1100-1115 PT	1400-1415 ET	Break
1115-1230 PT	1415-1530 ET	Recommendation Session Two - Long-Term Organizational Change (Proposals 10&11)
		Speakers: NSCAI Staff Presentation followed by Commissioner Discussion
1230-1300 PT	1530-1600 ET	Executive Session - Next Steps



LOE 2: Apply AI to National Security Missions

Summary of Conclusions Working Group Meeting Friday, February 28, 2020, 1230-1600

Working Group Objective:

Identify concrete steps that the U.S. can take to maintain its global leadership in Artificial Intelligence (AI)/Machine Learning (ML) application relevant to U.S. national security and defense.

Meeting Objective:

Discuss and reach consensus on first quarter LOE 2 recommendations to be presented for full Commission deliberation at the March 17 plenary.

Commissioners in Attendance (all via VTC):

- Safra Catz, Chair
- Bob Work
- Katharina McFarland
- Andy Jassy
- Steve Chien
- Ken Ford

Commissioners Discussed:

- Near-term recommendations to enhance the Department's ability to adopt and field AI
 applications.
- Long-term proposals for broad organizational change that can fundamentally alter the
 Department's ability to adopt and apply AI and emerging and enabling technologies
 going forward. Commissioners agreed to continue to study and develop options for
 broader organizational change over the course of the year for deliberation at a later date.

Commissioners Agreed:

LOE 2 Commissioners agreed to move the following three first quarter recommendations forward for plenary deliberation, pending final Commissioner approval within the LOE:

- DoD and the ODNI shall establish a senior oversight forum tri-chaired by the Deputy Secretary of Defense, the Vice Chairman of the Joint Chiefs of Staff, and the Principal Deputy Director of the Office of the Director of National Intelligence.
 - a. The forum will focus DoD and ODNI senior leadership on developing concepts and capabilities that include emerging and disruptive technologies to meet operational challenges facing the nation in high-end warfare against advanced strategic competitors.

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- DoD shall designate the Director of the Joint Artificial Intelligence Center's (JAIC) as a direct report to the Secretary of Defense, who may delegate this authority to the Deputy Secretary of Defense.
 - a. This change ensures senior leadership oversight of DoD AI efforts by shifting the JAIC's reporting structure from reporting to the Chief Information Officer (CIO). The CIO will remain responsible for leading DoD's broader digital transformation efforts.
 - b. Recommendations regarding new applications of, and modifications to, existing and near-term capabilities that provide an operational advantage to the Department should be reviewed by the new tri-chaired leadership forum prior to formal presentation to the Deputy Secretary of Defense, and conveyed as investment recommendations to the Deputy's Management Action Group.
- 3. Maintain the Director of the JAIC as a three-star general or flag officer with significant operational experience.
 - a. Authorizing a three-star billet for the JAIC ensures organizational relevance to the military services and connectivity between AI/ML solution development and operational concept and capability needs. Alternatively, require JAIC Director experience to include retired three-star or flag officer.

LOE 2 Commissioners Next Steps include:

Review and approve the updated first quarter recommendations when shared by staff.

LOE 2 Commission Staff will:

- Update the agreed upon first quarter recommendations and send them to LOE 2 Commissioners for final review.
- Continue research to build out proposals for long-term organizational change.

PLENARY 6:

Q1 Recommendations and Way Forward



PLENARY MEETING

1100-1600 | Tuesday, March 17, 2020

Meeting Link: (b) (6)

Conference Line: (b) (6) PIN: (b) (6)

Clearance Level: Unclassified

PURPOSE

Purpose: The purpose of this plenary is to discuss and decide on Q1 2020 recommendations in preparation for the development of the FY 2021 NDAA and FY 2021 appropriations.

DESIRED OUTCOMES

- Decide on the recommendations for the first quarter submission.
- · Continue with the calendar as planned.
- Sync lines of effort intent between Commissioners and staff.

ATTENDEES

- · Commissioners
- · Commission Staff

AGENDA	
1100-1115	WELCOME AND OVERVIEW
1115-1430	RECOMMENDATIONS REVIEW & DELIBERATION
1115-1145	LOE 1 - AI RESEARCH & DEVELOPMENT AND SOFTWARE, MOORE
1145-1215	LOE 2 - APPLY AI TO NATIONAL SECURITY MISSIONS, CATZ
1215-1245	LOE 3 - TRAIN AND RECRUIT AI TALENT, GRIFFITHS
1245-1300	BREAK
1300-1330	LOE 4 - PROTECT & BUILD ON U.S. TECH ADVANTAGES AND HARDWARE, LOUIE
1330-1400	LOE 5 - MARSHAL GLOBAL AI COOPERATION, MATHENY
1400-1430	LOE 6 - ETHICAL AND RESPONSIBLE AI, HORVITZ
1430-1445	CALENDAR REVIEW
1445-1500	ADMINISTRATIVE & LEGAL UPDATE
1500-1530	EXECUTIVE TIME
1530-1600	LOE WAY FORWARD: BREAK OUT SESSIONS

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Summary of Conclusions -- Call with Commissioners March 17, 2020

Commissioners held a one-hour preparatory teleconference on March 17 to discuss the process for reviewing and approving the Commission's draft Quarter 1 submission to Congress. Commissioners had originally planned to conduct an in-person, all-day plenary in New York City, but opted to hold the shortened, preparatory call instead due to the coronavirus pandemic.

Conclusions:

- Commissioners agreed to proceed on Quarter 1 recommendations through a "paper plenary" process. Commissioners will review a series of draft memos by March 23 and provide their concurrence, non-concurrence, and comments.
- Based on commissioner comments, NSCAI staff will identify topics that may require further discussion and deliberation among the commissioners.
- NSCAI General Counsel will provide additional guidance on questions related to avoiding conflicts of interest.
- Commissioners agreed that recommendations gathered under LOE 7 may proceed after a majority of commissioners (eight) have approved them.



Line of Effort on Investing in AI R&D Summary of Conclusions Flash Meeting | April 7, 2020 | 1700-1800

LOE Objective: Identify concrete steps the US government, through policy reforms, incentives, or appropriations, can help accelerate research and development in AI.

Meeting Objective: Discuss the LOE 1 recommendation work plan for Q2 and division of labor with LOE 2, as well as possible flash recommendations to offer to Congress in regard to COVID-19, as related to NSCAI's mandate and LOE 1's portfolio.

Commissioners in Attendance:

- Dr. Andrew Moore (Chair)
- Dr. Eric Horvitz

- · Dr. Bill Mark
- Dr. Ken Ford

Commissioners Discussed:

- Q2 recommendation workplan focused on 1) defining actionable steps to accelerate AI R&D
 across the DoD owned and sponsored laboratory network, and 2) determining data sharing
 requirements, policy challenges, and models to promote access to data for AI R&D across the
 national security enterprise
- Coordination with LOE 2 on 1) identifying mechanisms to increase successful transition of research to fielding (b) (5)
- The need to (b) (5)
- The need for the research enterprise to be optimized to both take newest technology ideas and
 operationalize them for national security as well as develop brand new technologies.
- Possible COVID-19 related flash recommendations.

The Commissioners Agreed:

- Q2 goals are to build recommendations around the DoD research enterprise, to include the full
 range of intramural, extramural and sponsored research entities, as well as on data sharing
 requirements and models to support AI R&D within this enterprise.
- To conduct a synch call with LOE 2 commissioners in regard to the areas of overlap and division of responsibility.

The Commissioners Next Steps include:

- Participate in follow up call with LOE 2 Commissioners (date TBD)
- Engage, as necessary, in development of COVID-19 flash recommendations

- Develop COVID-19 flash recommendations for consideration by Commissioners
- Coordinate synch call with LOE 2 Commissioners
- Coordinate one-on-one meetings with Commissioners to solicit input on the detailed areas of study for Q2
- · Send weekly updates to Commissioners

LOE 2: Apply AI to National Security Missions Summary of Conclusions Flash LOE 2 Meeting Tuesday, April 7, 2020, 1100-1400

<u>LOE 2 Objective</u>: Identify concrete steps that the U.S. can take to maintain its global leadership in AI/ML applications relevant to U.S. national security and defense.

<u>Meeting Objective</u>: 1) provide an overview of LOE 2's adjusted plan for Q2, and 2) consider ideas within NSCAI's mandate that could be submitted to Congress and the Executive Branch to assist with COVID-19 response. This meeting did not replace scheduled LOE meetings for Q2.

Note: Staff held individual calls with each Commissioner April 13 - 17 to receive feedback and refine the Q2 plan. Staff confirmed Commissioners are comfortable with the way ahead captured in the "Commissioners Agreed" section below.

Commissioners in Attendance (all via VTC):

- Safra Catz, Chair
- Katharina McFarland
- Andy Jassy
- Steve Chien
- Ken Ford

Commissioners Discussed:

- How to adjust the Q2 plan based on limited access to classified space during the current telework posture. LOE 2's initial Q2 objective was to focus on recommendations (b) (5)
- How to frame application-specific recommendations as a new focus for Q2. Commissioners provided additional feedback via email and the follow-on calls on areas for prioritization and how to (b) (5)
- Whether or not to develop LOE 2 flash recommendations related to COVID-19 response.

Commissioners Agreed:

- To postpone (b) (5) recommendations given the current telework posture.
- A Q2 plan focused on application-specific recommendations/guidance.
- LOE 2 Q2 application research areas will include:

(b) (5)		
Q2 objectives will	include:	
(b) (5)		100
(b) (5)		- 1
(b) (5)		
5)		
	(b) (5) (b) (5) (b) (5)	(b) (5) (b) (5) (b) (5)

• LOE 2 will not put forward any flash recommendations related to COVID-19 response.

LOE 2 Commissioners Next Steps Include:

- Review and provide input on (b) (5)
- Share contacts with staff that Commissioners recommend for staff engagement.
- Share vignettes/case studies of successful Al applications in the commercial sector that can
 inform staff research, if possible including (b) (5)
- Joint meeting with LOE 1 Commissioners.

LOE 2 Commission Staff Will:

- Develop and share a draft (b) (5)
 with Commissioners for their review.
- Schedule joint LOE 1-LOE 2 Commissioner meeting and circulate agenda.
- Stay closely coordinated with LOE 1 and hold joint engagements with stakeholders whenever possible and appropriate.
- Conduct outreach to Commissioner suggested contacts, as well as those identified by the Staff.
- Integrate vignettes and case studies into research and products as appropriate.

LINE OF EFFORT 3:

Preparing our National Security Workforce for an Al Future



LINE OF EFFORT MEETING

Monday, April 13, 2020 11:00 AM - 5:00 PM EST Location: Google Hangouts

PURPOSE

 Review Quarterly Recommendations, Immigration, STEM education at K-12, and Non-Traditional Levels.

DESIRED OUTCOMES

- 3 Key Takeaways
- 3 Next Steps
- Commissioner and Staff Way Ahead for 3rd and 4th Quarter Recommendations
- · Next Working Group Topic and Location

Q2 TOPICS

- · Al Civilian Reservist Corps
- · U.S. Digital Service Academy
- · Microelectronics Workforce Model

ATTENDEES

- · Jose Marie Griffiths, Commissioner
- · Bill Mark, Commissioner
- · Mignon Clyburn, Commissioner
- (b)(6) NSCAI Staff Members

AGENDA	
1100-1115	WELCOME AND OVERVIEW REMARKS
	Ylli Bajraktari, NSCAI Executive Director
1115-1215	SESSION ONE: REVIEW SECOND QUARTER RECOMMENDATIONS
	, NSCAI Director of Research and Analysis
1215-1315	WORKING LUNCH AND SESSION TWO: HOW CAN THE UNITED STATES GOVERNMENT UTILIZE THE IMMIGRATION TALENT POOL?
	(b) (6) Technology and Innovation Initiative at the Federation of American Scientists
1315-1330	BREAK
1330-1430	SESSION THREE: HOW CAN K-12 STEM EDUCATION PREPARE CHILDREN TO BECOME AI PROFICIENT?
	 (b) (6) , South Fayette School District. Building capabilities (b) (6) , Ready AI; aspirational/informed consumer education (b) (6) , UC Irvine (c) (6) and (b) (6) , Digital Promise
1430-1445	BREAK
1445-1545	SESSION FOUR: HOW CAN THE GOVERNMENT ATTRACT CITIZENS TO PURSUE NON-TRADITIONAL EDUCATION PATHWAYS AND HELP THEM TO ATTAIN EITHER INITIAL SKILLS OR RESKILL FOR NEW CAREER PATHS IN STEM?
	- (b) (6) , with (b) (6) (b) (6) (Coursera) - (b) (6) (UC Irvine) - (b) (6) (MIT)
1545-1600	BREAK
1600-1700	EXECUTIVE SESSION



Working Group on Preparing Our National Security Workforce for an AI Future

Summary of Conclusions

VTC Meeting #5 | April 13, 2020 | 1100 - 1700

Working Group Objective: Determine the current status of the AI workforce and recommend concrete steps the United States should take to build and maintain an AI workforce that can address national security and defense needs of the United States.

Working Group Approach: Through a comprehensive analysis and assessment of the U.S. national security AI workforce, develop recommendations to maintain U.S. leadership through AI in the national security apparatus, to include:

- Recruiting, training, educating, and, as needed, retaining the government AI workforce
- Assessing and reforming STEM education across the United States
- Attracting and retaining international talent in the United States

Meeting Objective:

Review Quarterly Recommendations and STEM education at K-12 levels and Non-Traditional Paths

Commissioners in Attendance:

- Dr. Jose-Marie Griffiths
- Dr. Bill Mark
- Ms. Mignon Clyburn
- Mr. Robert Work (Session 1)

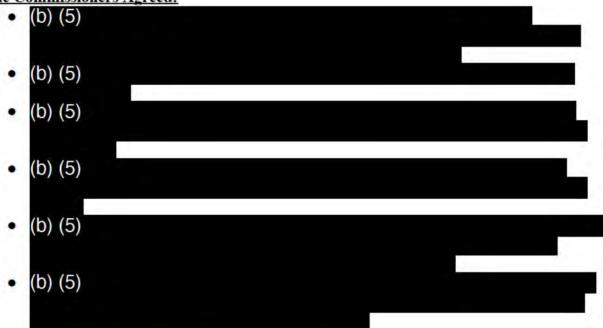
Commissioners Discussed:

- Options to establish a National Reserve Digital Corps.
- (b) (5)
- Options to scale digital talent across the US government workforce, including a United States Digital Service Academy.
- (b) (5)
- (15) (15)
- (b) (5)

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The Commissioners Agreed:



The Commissioners Next Steps include:

 Continuing addressing national security workforce issues and STEM education on an iterative basis.

The Commission Staff will:

 Produce a discussion paper about potential personnel management systems for a digital/AI workforce, including a digital corps; nest Q1/Q2 recommendations and Q3/Q4 topics within the selected system; update Q2 recommendation memos

• (b) (5)

• (b) (5)

• Coordinate a working group follow-up meeting that addresses the above issues.

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READ AHEAD - LOE 1/ LOE 2 COMMISSIONER SYNC Thursday, May 7, 2020; 12:00-1:00 p.m. EST

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- TAB 1 (b) (5)
- TAB 2 LOE 1 Q2 Plan
- TAB 3 LOE 2 O2 Plan

MEETING OBJECTIVE: A joint LOE 1 - LOE 2 meeting was requested by Commissioners to discuss the intersection of AI R&D and application. This meeting is an opportunity to review and finalize the research done to date on AI application and R&D areas in order to guide recommendation development.

PROPOSED AGENDA:

- 1. Overview of LOE Coordination
- 2. (b) (5) Overview and Proposed Way Ahead
- 3. Commissioner Discussion

GUIDING QUESTIONS:

1. (b) (5)
2. (b) (5)
3. (b) (5)

OUTCOME: 1) Agreement on the process to identify priority application areas and align priority research areas to develop recommendations for Q3/Q4, and 2) integration of commissioner feedback on existing mature technology to inform near-term priority application areas and on emerging technologies to inform longer-term R&D and application areas.

LOE 1/LOE 2 Commissioner Sync Summary of Conclusions Thursday, May 7, 2020, 1200-1300

References:

- Tab 1 (b) (5)
- Tab 2 <u>LOE 1 O2 Plan</u>
- Tab 3 LOE 2 Q2 Plan

Meeting Objective: A joint LOE 1 - LOE 2 meeting was requested by commissioners to discuss the intersection of AI R&D and application. This meeting was an opportunity for commissioners to review and finalize the research done to date on AI application and R&D areas in order to guide recommendation development.

Commissioners in Attendance (all via VTC):

- Safra Catz
- Andy Jassy
- Steve Chien
- Ken Ford
- Andrew Moore
- Robert Work
- Eric Horvitz
- Bill Mark

Commissioners Discussed: (b) (5) (b) (5) (b) (5)

Commissioners Agreed:

LOE 1 and 2 will remain closely synchronized and will (b) (5)

•	(D) (S)	
•	(b) (5)	
mm	nissioners Next Steps Include:	
	Review and provide input on (b) (5)	. By Monday,
	May 18.	
•	After receiving an updated draft, work with sta	ff to (b) (5)
		By the end of June.

LOE 2 Commission Staff Will:

- Stay closely coordinated between the two LOEs and hold joint engagements with stakeholders whenever possible and appropriate.
- Compile and integrate commissioner feedback on (b) (5)

 By Friday, May 29th.
- Share an updated version of (b) (5) for commissioner review. By Friday, May 29th.
- Work with Commissioners to (b) (5)

 . By the end of June.
- Integrate vignettes and case studies into research and products as appropriate.

LINE OF EFFORT 6:

Ethical and Responsible Al



LINE OF EFFORT MEETING

Friday, May 15, 2020 12:00 PM - 4:30 PM EST Location: Google Hangouts

(b) (6)

PURPOSE

 Review Quarterly Recommendations in Key Considerations and Options Paper

DESIRED OUTCOMES

- Determine best practices to carry forward in the Key Considerations
- Reach consensus on where recommendations are best suited to executive or legislative branch action

ATTENDEES

- · Dr. Eric Horvitz, Commissioner
- · Dr. Jose Marie Griffiths, Commissioner
- Hon. Mignon Clyburn, Commissioner
 Ylli Bairaktari, NSCAI Staff Members, (b)(6) NSCAI Staff Members, (b)(6) and NSCAI Staff

AGENDA	
1200-1215	WELCOME AND OVERVIEW REMARKS
	Ylli Bajraktari, NSCAI Executive Director (b) (6) Director of R&A
1215-1430	SESSION ONE: DISCUSS REVISED KEY CONSIDERATIONS
	Discuss revised Key Considerations paper. Walk through each category description (30 mins/section) to see if any iternating/deletion is necessary. • For each category, tab votes on each best practice to move forward to either the Executive Branch (e.g., as a national security agency best practice) or Legislative Branch (e.g. if a national standard or standard profiles are needed), refinements, or objections. • Voting sheet
1430-1530	DISCUSS OPTIONS PAPER
1530-1630	EXECUTIVE TIME
	 Recap of changes staff will make to the document before the plenary Follow-on steps to socialize Key Considerations (placemat) to refine any BPs/caveats SGE/Commission friends (refinement of use case examples) Commission wide National security agency stakeholders Non-NS USG stakeholders



Working Group on Ethics & Responsible AI Summary of Conclusions

Meeting #4: VTC | May 15, 2020 | 1200 - 1530

<u>Working Group Objective:</u> Determine the principal ethical considerations that relate to AI advancement across the national security apparatus and recommend concrete mechanisms to further the responsible development and use of AI for national security and defense needs.

Meeting Objectives:

Determine best practices to carry forward in the Key Considerations document and reach consensus on whether recommendations are best suited for executive or legislative branch action.

Commissioners in Attendance:

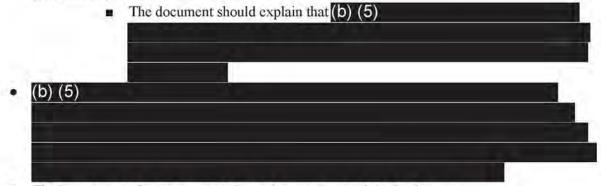
- Dr. Eric Horvitz (Chair)
- · Ms. Mignon Clyburn
- Dr. Jose-Marie Griffiths
- (Follow-up meeting held with Dr. Jason Matheny on 5.18.2020)

Commissioners Discussed:

- Revised Key Considerations paper (available here)
- Discussions Paper with options for recommending implementation of Key Considerations best practices (available here)
- Plan to socialize and iteratively improve the paper prior to the June plenary.

The Commissioners Agreed:

- Within the Key Considerations document, topics should be reorganized and provided in a Table of Contents.
- For each category, the document should clearly and concisely illustrate challenges, examples, and recommendations for implementation.
- The majority of best practices are best suited for Executive Branch Action (per Option A in the Discussion Memo):



The importance of privacy cannot be underscored enough in the document.

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The Commissioners' Next Steps include:

- Provide feedback by Friday (5/22) on where concrete examples are needed throughout the
 document to better illustrate points made and make them more accessible to a wider audience
 (including technical experts; the public; and Congress).
- Send research regarding(b) (5)
 (Dr. Horvitz).
- Provide additional guidance on how the scope for documentation recommendations in Q2 should differ from the documentation recommendations made by LOE6 in Q1.

The Commission Staff have:

 Re-ordered the Key Considerations document per new organizational structure (<u>Version 3</u> available here)

- Tighten the document to make it concise and punchy throughout; ensure body text is accessible to lay readers with footnotes elaborating on technical details.
- Conduct impedance matching per feedback from AI experts within the national security community on terminology used and existing policies.
- Conduct research, including on (b) (5) , to help inform more granular recommendations in the following areas:
 - Per 5/15 Working Group;
 - **(b) (5)**
 - **(b)** (5)
 - o Per 5/18 follow-up call:
 - **(b) (5)**
 - **(b)** (5)
 - **(b)** (5)
 - **(b)** (5)
- Add more examples (both natsec examples and industry tools/research examples) pending Commissioner feedback on where these are especially needed.
- Proceed with socialization and iterations per the approved calendar.

LINE OF EFFORT 2:

Apply AI to National Security Missions



LINE OF EFFORT MEETING

Tuesday, May 19, 2020 1200-1600 EST Google Hangouts

PURPOSE

 Review Q2 Discussion Papers: Developing a framework for Algorithmic Warfare, working with the Joint Staff, institutionalizing technology and capability review

DESIRED OUTCOMES

- 3 Key Takeaways
- LOE Decision on Q2 Discussion Paper Options
- Commissioner and staff way ahead for Q3 and Q4 work and recommendations

ATTENDEES

Commissioners

- Ms. Safra Catz, Oracle LOE 2 Chair
- · Hon. Bob Work, NSCAI Co-Chair
- · Hon, Katharina McFarland
- · Dr. Steve Chien
- Mr. Andy Jassy
- · Dr. Ken Ford

Staff

Yll Bajraktari, Lt Gen (retired) John Bansemer, (b) (6)

NSCAI Staff Members and NSCAI staff

AGENDA	
1200-1210	Welcome & Opening Remarks
	Ylli Bajraktari, Executive Director; LOE 2 Staff
1210-1250	Joint Staff Concept Development Overview
	Lt Gen Daniel O'Donohue, Director of the Joint Staff J7, Joint Force Development Directorate
1255-1335	USSOCOM Operational Al Applications
	VADM Timothy Szymanski, Deputy Commander, USSOCOM Dave Spirk, Chief Data Officer/Director Special Operations Forces AI, USSOCOM
1340-1420	Adopting Emerging Technologies and Capability Development
	Lt Gen (retired) Anthony Ierardi, former Director of the Joint Staff J8, Force Structure, Resource, Assessment
1430-1600	Executive Session
	Topics:

1. Meeting Key Takeaways

3. June Plenary Discussion

4. Way Ahead for Q3 and Q4

Q2 Options Paper Review

LOE 2 Q2 Meeting Summary of Conclusions

Google Hangouts | May 19, 2020 | 12:00 - 16:00

LOE Objective: Identify concrete steps that the U.S. can take to maintain its global leadership in AI/ML applications relevant to U.S. national security and defense.

Meeting Objectives: 1) Discuss key challenges and opportunities within DoD's concept and capability development processes relative to integrating AI and other emerging technologies, and 2) Consider options to advance as recommendations in Q2 to address these challenges and accelerate AI application for warfighting and business transformation.

Commissioners in Attendance (all via VTC):

- Ms. Safra Catz (Chair)
- Hon Bob Work (NSCAI Co-Chair)
- Hon Katharina McFarland

- Dr. Steve Chien
- Mr. Andy Jassy
- Dr. Ken Ford

Commissioners Discussed:

•	(b) (5)	
•	(b) (5)	
•	(b) (5)	
•	(b) (5)	

The Commissioners Agreed:

 To further develop and refine options for recommendations on enabling AI applications for national security and defense to present to the full Commission at the next Plenary session.

The	Comm	issioners	Next	Steps	include:

• (b) (5)



 Review revised options papers and provide feedback to staff on recommendations for presentation at the June 18 Plenary. (Staff will coordinate calls according to your availability.)

- Revise the options papers, incorporating feedback received from Commissioners and circulate a new consolidated draft to determine a way forward for Q2 recommendations (by Monday, June 1).
- (b) (5)
- Provide Commissioners with summary readouts of several previous engagements with stakeholders at varying levels across the DoD enterprise that can provide additional insight (by Monday, June 1).
- Remain synched with LOE 1 on the nexus between R&D and applications and on the technical tools needed by DOD for both development and fielding (ongoing).

LINE OF EFFORT 1:

Invest in Al Research & Development and Software



LINE OF EFFORT MEETING

Wednesday, May 20, 2020 12:00 PM - 4:30 PM EST

Location: Google Hangouts (b) (6)

PURPOSE

Discuss key challenges identified in accelerating Al R&D across the defense research enterprise and consider recommendations options to address them.

DESIRED OUTCOMES

Reach consensus on where recommendations are best suited for executive or legislative branch action for Q2 Memo.

ATTENDEES

- · Dr. Andrew Moore, Chair of LOE 1
- · Dr. Eric Horvitz, Commissioner
- · Dr. Bill Mark, Commissioner
- · Dr. Steve Chien, Commissioner
- · Dr. Ken Ford, Commissioner
- Ylli Bajraktari, (b) (6)
 (b) (6) and NSCAI Staff

AGENDA	
1200-1210	WELCOME AND OVERVIEW REMARKS
	Ylli Bajraktari, NSCAI Executive Director
1210-1300	ACCELERATING AI ACROSS THE DOD RESEARCH ENTERPRISE: OVERVIEW OF KEY CHALLENGES AND RECOMMENDATION OPTIONS
	NSCAI Staff Members, (b)(6) NSCAI Staff
1300-1340	IMPROVING DoD MANAGEMENT OF S&T INNOVATION
	 (b) (6) Dr. Jill Crisman, Technical Director for AI, Office of the Undersecretary of Defense for Research & Engineering
1340-1420	OPTIMIZING DoD AI RESEARCH, DEVELOPMENT, AND TRANSITION
	(b) (6) (b) (6) Office of Naval Research (b) (6) (b) (c) Army Research Lab (b) (6) (b) (6) Georgia Tech Research Institute
1420-1450	INVESTING IN TESTING, EVALUATION, VERIFICATION & VALIDATION
	(b) (6) (b) (6) Test Resource Management Center (b) (6) Test, Evaluation and Assessment, Joint Al Center
1450-1455	BREAK
1455-1510	BA8 OVERVIEW - (b) (6) S&T/Innovation Portfolio (b) (6) Office of the Undersecretary of Defense (Comptroller) NSCAI-FOIA-2020-009-000115
1510-1630	EXECUTIVE TIME: Q2 RECOMMENDATION DELIBERATION



LOE1 Q2 Meeting Summary of Conclusions

Google Hangouts | May 20, 2020 | 12:00 - 16:30

LOE Objective: Identify concrete steps the US government, through policy reforms, incentives, or appropriations, can help accelerate AI R&D.

<u>Meeting Objective:</u> Discuss key challenges identified in accelerating AI R&D across the defense research enterprise and consider recommendations options to advance for Q2 to address them.

Commissioners in Attendance:

- Dr. Andrew Moore (Chair)
- · Dr. Eric Horvitz
- Dr. Bill Mark

- Dr. Steve Chien
- Dr. Ken Ford

Commissioners Discussed:

- Software repository and data catalog: a common--and admirable--idea that is very
 difficult to implement. An actionable recommendation should point toward an
 architecture method and requirement for a knowledge graph type framework for data
 normalization.
- Building a common foundation for AI applications: based on data access, reusable
 tools, Authority To Operate (ATO) reciprocity, cloud resources, and shared standards.
 Recommendation must look beyond the data needs of ML, considering input
 assumptions, standards catalogs, and concrete transfer of scientific intent.
- Capacity gaps in TEVV: misunderstanding of nature of software testing among leadership, lack of tools/technology to conduct testing, time pressure, and broader process issues.
- (b) (5)(b) (5)(b) (5)

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The Commissioners Agreed:

- (b) (5)
 - (b) (5)
 - o (b) (5) On issues:
 - o (b) (5)
 - Integrated Development Teams: The concept of integrated development teams is promising and should be brought forward for Q2 (staff will fine tune recommendation language for consideration)
 - Connection to End Users: Better connections between DoD researchers and end-users should be the norm, not the exception. The commission has a role to play to highlight the issue to leadership/Congress and prompt top-down support.

The Commissioners Next Steps include:

- Fill out recommendation matrix (by COB 26 May)
- Participate in follow up call to frame and consider revised recommendations (TBD)
- Dr. Moore follow up meeting with Jane Pinelis; Dr. Horvitz and Dr. Ford to receive BA8 briefing

- Update Q2 revised recommendations and coordinate calls with Commissioners to reach final consensus (ongoing until 18 June).
- Provide commissioners with a revised calendar by COB 27 May.
- Conduct additional research on (b) (5) and send update to Commissioners for consideration by COB 29 May.

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Line of Effort 4:

Protect and Build on U.S. Technology Advantages



LOE 4 MEETING

Tuesday, May 26, 2020 Virtual Meeting via VTC

PURPOSE

- Select recommendations regarding how best to utilize export controls and investment screening to protect U.S. advantages in AI, and how to improve organizational accountability and capacity for technology protection.
- Discuss next steps for the plenary and future quarterly recommendations.

DESIRED OUTCOMES

- Agree on recommendations LOE4 will present to June 18 NSCAI Plenary meeting, for vote on whether to transmit to Congress in Q2 2020.
- · Discuss next steps and way forward for LOE4 in Q3 2020.

RESEARCH QUESTIONS

- What steps must the United States take to enhance the government's capacity to craft and implement technology protection policies?
- How can export controls be best utilized to protect U.S. AI advantages? In which areas would export controls be harmful?
- How can the United States improve its investment screening regime as it relates to AI and other emerging technologies?

ATTENDEES

Commissioners:

Gilman Louie, Chris Darby, and Dr. Jason Matheny

NSCAI Staff:

Ylli Bajraktari, (b)(6) NSCAI Staff Members

AGENE	A
0800-0810	WELCOME REMARKS
	Speakers: Ylli Bajraktari and NSCAI Staff
0810-0900	SESSION ONE: REVIEW Q1 RECOMMENDATIONS MEMO
	Objective: Review and discuss initial feedback from Commissioners on the options contained in the draft recommendations memo.
0900-0955	SEESSION TWO: Applying Export Controls to Al and Emerging Technologies
	Speakers: (b) (6) (TBC) (b) (6) Objective: Discuss the status of ECRA implementation, strengths and weaknesses of the export control regime as it relates to AI and other emerging technologies, and where organizational change is necessary to improve export controls.
0955-1005	BREAK
1005-1055	SESSION THREE: Applying CFIUS to Al and Emerging Technologies
	Speakers: (b) (6) (b) (6) Objective: Discuss the status of FIRRMA implementation and potential recommendations to strengthen investment screening for emerging technologies.
1055-1200	EXECUTIVE TIME - NEXT STEPS
	 Objectives: Discuss options within LOE 4 memo, or propose alternatives, for recommendations on building technology protection capacity, export controls, and CFIUS implementation. Agree on way forward on each issue identified in memo, for presentation at June 18 Plenary. Staff will refine and repackage memo for the plenary to include only agreed-upon options. Decide if another meeting of LOE 4 is necessary before June 18 to reach consensus. Discuss approach for Q3, focused on (b) (5)



Line of Effort 4: Protect and Build on U.S. Technology Advantages Summary of Conclusions

Meeting #2: Virtual Meeting via VTC | May 26, 2020 | 0800 - 1200

<u>Line of Effort Objective:</u> Protect existing U.S. technology advantages, build upon U.S. advantages in AI-related hardware and microelectronics, and examine technologies associated with AI such as 5G, quantum, and biotech.

Meeting Objective:

Select recommendations among proposed options regarding how best to utilize export controls and investment screening to protect U.S. advantages in AI, and how to improve organizational accountability and capacity for technology protection.

Commissioners in Attendance:

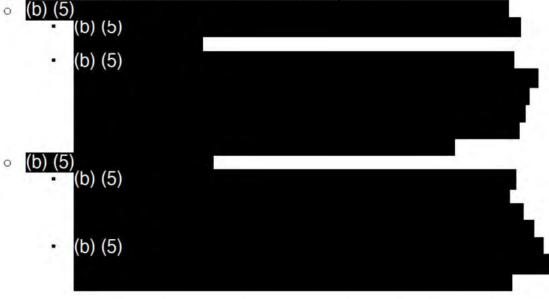
- Gilman Louie (Chair)
- Chris Darby
- Jason Matheny

Commissioners Discussed:

- Which steps the United States must take to enhance the government's capacity to craft and implement technology protection policies, specifically export controls and investment screening.
- How export controls can be best utilized to protect U.S. AI advantages, and in which areas
 pertaining to AI export controls would be harmful to overall U.S. strategic competitiveness.
- How the United States can improve its investment screening regime as it relates to AI and other emerging technologies.

The Commissioners Agreed:

 To endorse the following options proposed in the LOE 4 memo. The below includes select, but not all, feedback from Commissioners, and is broken down by issue area:







- Additionally, Commissioners endorsed all three "overarching principles" that seek to guide a strategic U.S. approach to technology protection, and requested staff add one additional principle outlining (b) (5)
- In Quarter 3 of 2020, LOE 4 will focus its recommendations on key "associated technologies" to AI, which it has scoped to biotech, 5G, and quantum information systems. Quarter 4 will build on prior quarters and address additional recommendations for promoting U.S. technology leadership and supply chain surety.

The Commissioners Next Steps include:

- Upon receipt from LOE 4 staff, Commissioners will review the revised LOE 4 Q2 memo, which
 will include only Commissioner-selected options and be written for public release, pending
 approval by the Plenary on June 18 (ACTION: Commissioners by Friday, June 5)
- Prepare to brief all NSCAI Commissioners on LOE 4's Q2 recommendations and key takeaways at the upcoming Plenary. Staff will support the discussion. (ACTION: Commissioners on Thursday, June 18)



- Revise the Q2 draft options memo to include only selected options, incorporate Commissioner feedback and provide additional details, revise for potential public release, and distribute to LOE 4 Commissioners for review (ACTION: Staff by Tuesday, June 2)
- Distribute consolidated plenary package with all LOE recommendations to Commissioners (ACTION: Staff by Friday, June 12)
- Follow up with key stakeholders within the government to update them on the LOE's work (ACTION: Staff by Thursday, June 18)
- Transmit recommendations to Congress, if endorsed by the Plenary (ACTION: Staff by Wednesday July 1)

LINE OF EFFORT 5: Marshal Global Al Cooperation

Trans-Atlantic Cooperation, and Supporting American Diplomacy in an Al Context



LINE OF EFFORT MEETING

Thursday, May 28, 2020 0800-1115 EST Google Hangouts

OBJECTIVE

Discuss, refine and approve Q2 recommendations that build additional elements of an international Alcooperation framework:

- 1. Advancing Trans-Atlantic cooperation in an Al context
- Supporting the State Department to marshal global Al cooperation

DESIRED OUTCOMES

- 3 Key Takeaways
- LOE Decision on Q2 Discussion Paper Options
- Commissioner and staff way ahead for Q3 and Q4 work and recommendations

ATTENDEES

Commissioners

- Dr. Jason Matheny, LOE 5 Chair
- Gilman Louie
- · Chris Darby

Staff

Yll Bajraktari, (b) (6) , (b) (6) , and NSCAI Staff



3. Look ahead to Q3



Line of Effort 5: Marshal Global AI Cooperation Summary of Conclusions

Meeting #2: Virtual Meeting via VTC | May 28, 2020 | 0800 - 1115

<u>Line of Effort Objective</u>: Recommend measures to marshal global cooperation in AI, based on common values and interests of democratically-minded states. Enable the combination of two American strengths – AI technology and leading coalitions – in order to enhance national security objectives.

Meeting Objective: Discuss, refine and approve Q2 recommendations that build additional elements of an international AI-cooperation framework:

- Advancing Transatlantic cooperation in an AI context
- Supporting the State Department to marshal global AI cooperation

Commissioners in Attendance:

- Jason Matheny (Chair)
- Gilman Louie
- Chris Darby

Commissioners Discussed:

- (b) (5)
- (b) (5)
- (b) (5)
- (b) (5)

The Commissioners Agreed:

- Present to the June 18 plenary, recommendations 5-2, 5-3, 5-4 and 5-5 to (b) (5)
- Incorporate (b) (5) aspects into the recommendations as appropriate.
- (b) (5)
- Continue development of specific proofs of concept for (b) (5)
- (b) (5)

The Commissioners Next Steps include:

- Review the revised LOE 5 Q2 memo to inform June 18 plenary preparations and decisions.
 (ACTION: Commissioners by June 4, 2020)
- (b) (5)



 Revise the Q2 draft memo for Commissioner review, incorporating input and/or conducting post-Q2 analysis in areas such as (b) (5)

(ACTION: Staff ongoing)

- Distribute the consolidated plenary package with all LOE recommendations to Commissioners.
 (ACTION: Staff by 12, June 2020)
- Follow up with key stakeholders within and outside government to update the LOE's work.
 (ACTION: ongoing)
- NSCAI staff will transmit the endorsed recommendations to Congress and the Executive Branch.
 (ACTION: Staff by July 1, 2020)