AUG 1 0 2023

MEMORANDUM FOR SENIOR PENTAGON LEADERSHIP
                           COMMANDERS OF THE COMBATANT COMMANDS
                           DEFENSE AGENCY AND DOD FIELD ACTIVITY DIRECTORS

SUBJECT: Establishment of Chief Digital and Artificial Intelligence Officer Generative
                Artificial Intelligence and Large Language Models Task Force, Task Force Lima

      Generative artificial intelligence (AI) capabilities, such as Large Language Models (LLM), are growing in popularity, capability, and impact around the globe. These capabilities are trained on massive datasets in order to generate content at a level of detail and apparent coherence that would have previously required human authorship. These capabilities unlock new opportunities, just as they pose significant new risks. The DoD faces an imperative to explore the use of this technology and the potential of these models' scale, speed, and interactive capabilities to improve the Department's mission effectiveness while simultaneously identifying proper protection measures and mitigating a variety of related risks.

      Accordingly, I chartered the Generative AI and LLM Task Force, Task Force Lima, to focus the Department's exploration and responsible fielding of generative AI capabilities, including LLMs. Consistent with the Chief Digital and Artificial Intelligence Officer's (CDAO) mission and authorities, Task Force Lima will develop, evaluate, recommend, and monitor the implementation of generative AI technologies across DoD to ensure the Department is able to design, deploy, and use generative AI technologies responsibly and securely. The Task Force will provide guidance and make recommendations for the relevant policy-making bodies to address. The CDAO will lead Task Force Lima; specific roles and responsibilities for governance are discussed in the attached Charter and Generative Artificial Intelligence Coordination and Governance Plan.

      The CDAO, through its Algorithmic Warfare Directorate, will chair Task Force Lima in close collaboration with other Principal Staff Assistants that maintain key roles and responsibilities in AI adoption across the Department. This includes the Offices of the Under Secretary of Defense for Policy (OUSD(P)), the Under Secretary of Defense for Research and Engineering (OUSD(R&E)), the Under Secretary of Defense for Acquisition and Sustainment (OUSD(A&S)), the Under Secretary of Defense for Intelligence and Security (OUSD(I&S)), and the DoD Chief Information Officer (DoD CIO). Key roles and responsibilities include but are not limited to:

- USD(P) is responsible for national security, defense strategy and policy, bilateral, multilateral, and interagency engagement;

- USD(R&E) is responsible for technology and innovation strategy and research through prototyping;

- USD(A&S) is responsible for oversight of acquisition strategies, industry engagement, and coordination of major technology sharing agreements;

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- USD(I&S) is responsible for intelligence, counterintelligence, security and sensitive activities; and

- CIO is responsible for the DoD information enterprise to include communications, information systems, cybersecurity, and command and control.

The Task Force's lessons learned will be provided to the Responsible AI (RAI) Working Council, where all OSD and DoD Components will leverage shared learning to inform their initiatives and policy developments. DoD activities related to generative AI will be coordinated and synchronized via the RAI Working Council and raised through the CDAO Council to the Deputy's Management Action Group as appropriate.

To advance a unified approach to responsible adoption and use of this technology, Task Force Lima will provide the framework and initiative for DoD to:

- Accelerate promising generative AI initiatives and joint solutions;

- Federate disparate developmental and research efforts into a DoD community of practice to accelerate innovation and implementation;

- Evaluate solutions across Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities, and Policy;

- Drive education and build a culture of responsible implementation and use; and,

- Ensure coordinated DoD engagement with interagency, international, educational, civil society, and industry partners regarding responsible development and use of generative AI.

Task Force Lima will build strong partnerships across OSD and DoD Components, ensuring we collectively learn, responsibly adopt, and diligently advance the security and safety of generative AI. I ask all Components to partner with the Task Force and empower their RAI leads to incorporate its lessons. This technology has the potential to be transformative. We must leverage it to advance our Nation's security, in a responsible manner consistent with our values.

Attachments:
As stated

Unclassified When Separated from Attachments

Attachment 1

Generative Artificial Intelligence and Large Language Model Task Force, Task Force Lima Charter

Establishment: Generative artificial intelligence (AI) capabilities such as Large Language Models (LLMs) are growing in popularity, capability, and impact around the globe. These capabilities are trained on massive datasets to generate content at a near-instantaneous speed to a level of detail and apparent coherence which would have previously required human authorship. These capabilities unlock new opportunities, just as they pose significant new and enduring risks. The Department of Defense (DoD) must explore the use of this technology to take advantage of these models' scale, speed, and interactive capabilities to improve the Department's mission effectiveness while identifying proper protection measures, including safeguarding individuals' privacy and civil liberties, and mitigating risks. The Chief Digital and Artificial Intelligence Officer (CDAO)[1] Generative AI and LLM Task Force, Task Force Lima, will focus the Department's exploration and responsible fielding of generative AI capabilities within and across the DoD, providing guidance and making recommendations for the relevant policy-making bodies to address.

Mission: Under the guidance of the CDAO Council and in accordance with the Department's AI Ethical Principles,[2] Task Force Lima develops, evaluates, recommends, and monitors the implementation of generative AI technologies across the DoD to ensure the Department is postured to responsibly use, and defend against adversary or other malicious actor's use of generative AI capabilities. Specifically, Task Force Lima will provide the framework and initiative for the DoD to:

- Accelerate innovation and implementation of promising generative AI initiatives and joint solutions;
- Federate disparate mission adoption efforts into a DoD community of practice;
- Evaluate solutions across Doctrine, Organization, Training, Material, Leadership, Personnel, Facilities, and Policy;
- Drive education and build a culture of responsible implementation and use; and
- Ensure Coordinated DoD engagement with interagency, international, educational, civil society, and industry regarding responsible development and use of generative AI

Goals: Task Force Lima will:

- Identify and inventory ongoing research, development, fielding, and use of LLMs and generative AI across the DoD;

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[1] Deputy Secretary of Defense memorandum, "Full Operating Capability of the Chief Digital and Artificial Intelligence Officer," June 8, 2022, found at https://www.milsuite.mil/book/groups/dodissuances/pages/memos-and-security-policy-memos .

[2] US DoD Responsible Artificial Intelligence Strategy and Implementation Pathway, June 2022, found at https://www.dote.osd.mil/News/What-DOT-Es-Reading/Reading-Display/Article/3072685/dod-has-released-a-new-strategy-and-implementation-pathway-for-responsible-ai/ and https://www.ai.mil/docs/RAI_Strategy_and_Implementation_Pathway_6-21-22.pdf .

- Develop quantitative and qualitative metrics of performance and effectiveness, including bias and unintended behavior or consequences, to support the assessment of LLM and generative AI-based capabilities and risks;
- Develop Human-Machine Teaming guidance and metrics for LLM and generative AI-enabled capabilities;
- Identify, assess, and prioritize mission areas, workflows, and use cases for LLMs and generative AI based on associated feasibility, limitations, effectiveness, and risks;
- Identify mission areas and workflows where use of LLMs and generative AI is inadvisable due to undue risk or other considerations, and recommend limitations or prohibitions on the Department's use of generative AI where appropriate;
- Support development and demonstration of prototypes of LLM and generative AI-based solutions for these identified use cases through exercises and experiments;
- Develop recommendations for DoD on the integration of LLMs and generative AI into workflows and appropriate risk mitigation;
- Oversee the integration of LLM and generative AI enhanced workflows/mission threads into joint exercises and experiments such as the CDAO-led Global Information Dominance Experiment series;
- Recommend a long-term DoD governance plan for the development and use of LLMs and generative AI;
- Assess and estimate DoD resourcing needs required to develop, implement, and operationalize the use of LLMs and generative AI at scale across the Department;
- Support DoD engagement with interagency, international, and industry as well as civil society regarding responsible development and use of LLMs and generative AI; and
- Define risk categories and associated organizational risk to tolerance levels for LLMs and generative AI

Deliverables:

- Create a reach back mechanism that connects DoD users with Task Force Lima Subject Matter Experts to field immediate questions and concerns on LLMs and generative AI (Within 14 Days);
- Interim public affairs and strategic messaging guidance (Within 45 days);
- International engagement plan (Within 60 days);
- Interagency engagement plan (Within 60 days);
- Provide interim guidance to DoD on the current risks, challenges, and best practices for the use of LLMs and generative AI (Within 45 days);
- Inventory of current/planned LLM and generative AI efforts across DoD (FY24 Q1);
- Metrics for LLM and generative AI performance assessment and workflow impacts (FY24 Q1);
- Engagement and messaging strategy for LLM and generative AI Industry Developers (FY24 Q1);
- DoD environment for rapid LLM and generative AI experimentation and iteration (FY24 Q2);
- Assessment and recommendations of LLM and generative AI use cases (FY24 Q2);
- Guardrails/policies for responsible implementation and use (FY24 Q2);

- Security and countermeasure assessment and recommendations for generative AI (FY24 Q2);
- Recommended prioritized investments and requirements for DoD development and fielding of LLM and generative AI capabilities, to include enabling scaffolding (FY24 Q3);
- Plan for LLM/generative AI governance and oversight (FY24 Q3); and,
- List of key topics and issues for use in training (FY24 Q3).

Leadership: The CDAO, through its Algorithmic Warfare Directorate, will chair Task Force Lima

- **Organization:** Task Force Lima will be composed of representatives and data leads from across OSD and DoD Components as described in the Memo (TAB A), with participation from the Intelligence Community and interagency partners as appropriate.
- **Working Groups** may be created as required, and in compliance with Department and Federal regulations, to support focus on specific mission areas such as strategy, intelligence, operations, planning, logistics, business processes, and other areas.
- All members of Task Force Lima or its working groups must be full-time or permanent part-time Federal civilian officers or employees, or active duty members of the Armed Forces.

Termination: The CDAO is delegated the authority to terminate Task Force Lima in writing and cancel the Deputy Secretary of Defense memorandum that established it.

Kathleen H. Hicks
Deputy Secretary of Defense

Attachment 2

CDAO

Chief Digital & Artificial Intelligence Office
9010 DEFENSE PENTAGON, ROOM 3A268
WASHINGTON, D.C. 20301-1600

Generative Artificial Intelligence Coordination and Governance Plan

Generative artificial intelligence (AI) capabilities such as Large-Language Models (LLMs) are growing in popularity, capability, and impact around the globe. These capabilities are trained on massive datasets to generate content to a level of detail and semantic coherence that mimics human authorship. These capabilities unlock new opportunities, just as they pose significant new and enduring risks. Within this rapidly evolving space, it will be critical to coordinate experimentation, findings, guidance, and messaging across the Department. The Chief Digital and Artificial Intelligence Officer (CDAO) Council will serve as the focal point for Department of Defense (DoD)-wide coordination and synchronization of generative AI related materiel and non-materiel issues. The Council will guide and prioritize the activities of Task Force Lima and disseminate Task Force findings related to technical integration and use. Recognizing the rapid innovation in foundational and multi-modal models, the CDAO Council's oversight, as well as experiments organized by Task Force Lima, will maintain a broad technical approach in their evaluation of generative AI capabilities and applications. It will not focus exclusively on LLMs.

Operating under the CDAO Council, the Responsible AI (RAI) Working Council will serve as the O-6 level forum to coordinate across OSD and DoD components. Task Force Lima will brief the RAI Working Council on plans and results from generative AI-related experiments. The Task Force will also leverage the Working Council to solicit and prioritize requirements, seeking to address common enterprise gaps and risks. Informed by Task Force activities and led by the Principal Staff Assistant (PSA) with primary responsibility, the Working Council will regularly synchronize across the range of issues outlined below. Deliverables related to these topics will be released periodically, as prioritized by the responsible PSA.

Guidance Development
- Responsible use and integration guidance (CDAO)
- Privacy, civil liberties, and transparency implications (OATSD(PCLT))
- Responsible use guidance regarding information & operational security (OUSD(I&S))
- Cybersecurity guidance related to implementation and use of generated code (DoD CIO)

Research Best Practices
- Prioritization of research gaps, advancing trusted & resilient capabilities (OUSD(R&E))
- Standardized requirements and contract language (OUSD(A&S))
- Sharing of lessons-learned from the Intelligence Community (CDAO)

Legal Implications and Policy Development
- Legal implications, including, *e.g.*, intellectual property and information law (DoD OGC)
- Interagency and international policy on development, technical implementation, use, and other relevant guidance on LLMs and generative AI. (OUSD(P) in coordination with CDAO)
- Strategic Messaging (OUSD(P))

Inventory Development & Scaling
- DoD-wide generative AI project inventory (CDAO)
- Guidance on prioritization of appropriate LLM use cases and applications (CDAO)
- Recommendations for scalable technical implementation (CDAO)

Communication and Outreach
- External engagement strategy, including public affairs guidance (OSD(PA))
- Department-wide talent and workforce development (OUSD(P&R))