



UNITED STATES
CONSUMER PRODUCT SAFETY COMMISSION
4330 EAST WEST HIGHWAY
BETHESDA, MD 20814

COMMISSIONER PETER A. FELDMAN

January 9, 2020

The Honorable Robert Adler
Acting Chairman
U.S. Consumer Product Safety Commission
4330 East West Highway
Bethesda, MD 20814

Dear Acting Chairman Adler:

Earlier this week, the Office of Management and Budget (OMB) issued a memorandum for the heads of executive departments and agencies providing guidance for the regulation of artificial intelligence (AI) applications.¹ As the OMB guidance states, because the deployment of AI holds the promise to improve safety and other social goals, agencies should avoid a precautionary approach that holds AI systems to such an impossibly high standard that society cannot enjoy the benefits. Accordingly, CPSC should consider this guidance in order to advance the agency's safety mission and to promote AI technology and further innovation.

The guidance memorandum was issued pursuant to Executive Order 13859, "Maintaining American Leadership in Artificial Intelligence."² OMB seeks to inform the development of regulatory and non-regulatory approaches regarding technologies and industrial sectors that are empowered or enabled by AI and asks that all federal agencies consider ways to reduce barriers to the development and adoption of AI technologies.

CPSC is increasingly focused on AI. The agency's current Operating Plan directs staff to collaborate with external partners and standards development organizations to begin exploratory efforts related to the use of AI and machine learning in consumer products, to identify areas where this technology is applicable to CPSC's mission, and to commence work in those areas.³ Thus far, CPSC's approach has been one of close coordination and alignment with the administration's policies. For example, staff participated in a National Institute of Standards and Technology workshop to engage private- and public-sector organizations in discussions on

¹ Memorandum from Russell T. Vought, Acting Dir., Office of Management & Budget, to Heads of Executive Departments and Agencies (Jan. 7, 2020), *available at* <https://www.whitehouse.gov/wp-content/uploads/2020/01/Draft-OMB-Memo-on-Regulation-of-AI-1-7-19.pdf>.

² Exec. Order No. 13,859, Maintaining American Leadership in Artificial Intelligence, 84 Fed. Reg. 3967 (Feb. 11, 2019), *available at* <https://www.whitehouse.gov/presidential-actions/executive-order-maintaining-american-leadership-artificial-intelligence/>.

³ CONSUMER PROD. SAFETY COMM'N, FISCAL YEAR 2020 OPERATING PLAN (Oct. 16, 2020), *available at* <https://www.cpsc.gov/s3fs-public/FY-2020-Op-Plan.pdf?rWcNsxRYLVDeWWsCZX2FeGdh56A7MwHv>.

federal engagement in the development of standards for AI.⁴ The agency has sought to follow Department of Commerce recommendations in this regard.⁵ In order to promote a coherent and whole-of-government approach to AI oversight, it is my hope that CPSC continue its coordination efforts, and that it do so under the auspices of the guidance set forward by OMB.

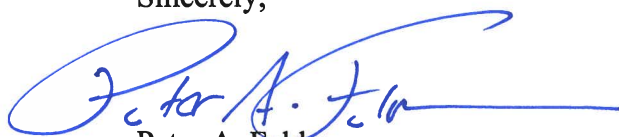
CPSC is also expanding staff expertise in this area. Recognizing the need to develop proficiency in AI, staff recently sought supplemental training from the Massachusetts Institute of Technology. The Commission also voted unanimously to create a new role within the agency for a Chief Technologist to serve as the Commission's principal advisor on innovation and safety implications associated with emerging technologies, including AI. While I support these efforts, we must recognize that significant expertise exists outside of the agency. That is why the coordination called for in the OMB guidance makes sense.

As an independent agency, CPSC is not generally bound by OMB directives or guidance. Nevertheless, this guidance represents a thoughtful approach to a promising emerging technology. Therefore, consistent with its authorizing statutes and current agency practice, I urge the Commission to take into consideration the principles laid out in the OMB memorandum.

To further the interagency coordination CPSC is already engaged in, the Commission should consider Executive Order 13859's requirement that agencies review their relevant authorities and submit plans to OMB on achieving consistency with the memorandum. I urge CPSC to submit its plan accordingly and stand ready to assist in any way I can.

Thank you for your leadership on this matter.

Sincerely,



Peter A. Feldman
Commissioner

Enclosures: Memorandum from Russell T. Vought, Acting Dir., Office of Management & Budget, to Heads of Executive Departments and Agencies (Jan. 7, 2020).

Exec. Order No. 13,859, Maintaining American Leadership in Artificial Intelligence, 84 Fed. Reg. 3967 (Feb. 11, 2019).

⁴ CONSUMER PROD. SAFETY COMM'N, STATUS REPORT ON THE INTERNET OF THINGS (IOT) AND CONSUMER PRODUCT SAFETY at 17 (Sept. 25, 2019), available at https://www.cpsc.gov/s3fs-public/Status-Report-to-the-Commission-on-the-Internet-of-Things-and-Consumer-Product-Safety.pdf?6sv9HwTXKHrkdMAyAkQ0_TsKCKpl1IR2.

⁵ *Id.*

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Russell T. Vought
Acting Director

SUBJECT: Guidance for Regulation of Artificial Intelligence Applications

Introduction

Executive Order 13859, “Maintaining American Leadership in Artificial Intelligence,”¹ requires the Director of the Office of Management and Budget (OMB), in coordination with the Director of the Office of Science and Technology Policy, the Director of the Domestic Policy Council, and the Director of the National Economic Council, to issue a memorandum that provides guidance to all Federal agencies to inform the development of regulatory and non-regulatory approaches regarding technologies and industrial sectors that are empowered or enabled by artificial intelligence (AI) and consider ways to reduce barriers to the development and adoption of AI technologies. Consistent with Executive Order 13859, OMB guidance on these matters seeks to support the U.S. approach to free markets, federalism, and good regulatory practices (GRPs), which has led to a robust innovation ecosystem. When considering regulations or policies related to AI applications, agencies should continue to promote advancements in technology and innovation, while protecting American technology, economic and national security, privacy, civil liberties, and other American values, including the principles of freedom, human rights, the rule of law, and respect for intellectual property.

Scope

This draft Memorandum sets out policy considerations that should guide, to the extent permitted by law, regulatory and non-regulatory oversight of AI applications developed and deployed outside of the Federal government. Although Federal agencies currently use AI in many ways to perform their missions, government use of AI is outside the scope of this

¹ Exec. Order No. 13,859, Maintaining American Leadership in Artificial Intelligence, 84 Fed. Reg. 3967 (Feb. 11, 2019), available at <https://www.whitehouse.gov/presidential-actions/executive-order-maintaining-american-leadership-artificial-intelligence/>.

Memorandum. While this Memorandum uses the definition of AI recently codified in statute,² it focuses on “narrow” (also known as “weak”) AI, which goes beyond advanced conventional computing to learn and perform domain-specific or specialized tasks by extracting information from data sets, or other structured or unstructured sources of information. More theoretical applications of “strong” or “general” AI—AI that may exhibit sentience or consciousness, can be applied to a wide variety of cross-domain activities and perform at the level of, or better than a human agent, or has the capacity to self-improve its general cognitive abilities similar to or beyond human capabilities—are beyond the scope of this Memorandum.

Encouraging Innovation and Growth in AI

As stated in Executive Order 13859, “the policy of the United States Government [is] to sustain and enhance the scientific, technological, and economic leadership position of the United States in AI.”³ The deployment of AI holds the promise to improve safety, fairness, welfare, transparency, and other social goals, and America’s maintenance of its status as a global leader in AI development is vital to preserving our economic and national security. The importance of developing and deploying AI requires a regulatory approach that fosters innovation, growth, and engenders trust, while protecting core American values, through both regulatory and non-regulatory actions and reducing unnecessary barriers to the development and deployment of AI.

To that end, Federal agencies must avoid regulatory or non-regulatory actions that needlessly hamper AI innovation and growth. Where permitted by law, when deciding whether and how to regulate in an area that may affect AI applications, agencies should assess the effect of the potential regulation on AI innovation and growth. Agencies must avoid a precautionary approach that holds AI systems to such an impossibly high standard that society cannot enjoy their benefits. Where AI entails risk, agencies should consider the potential benefits and costs of employing AI, when compared to the systems AI has been designed to complement or replace.

Furthermore, in the context of AI, as in other settings, agencies must consider the effect of Federal regulation on existing or potential actions by State and local governments. In some circumstances, agencies may use their authority to address inconsistent, burdensome, and duplicative State laws that prevent the emergence of a national market. Where a uniform

² Section 238(g) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. No. 115-232, 132 Stat. 1636, 1695 (Aug. 13, 2018) (codified at 10 U.S.C. § 2358, note), defined AI to include the following:

- (1) Any artificial system that performs tasks under varying and unpredictable circumstances without significant human oversight, or that can learn from experience and improve performance when exposed to data sets.
- (2) An artificial system developed in computer software, physical hardware, or another context that solves tasks requiring human-like perception, cognition, planning, learning, communication, or physical action.
- (3) An artificial system designed to think or act like a human, including cognitive architectures and neural networks.
- (4) A set of techniques, including machine learning, that is designed to approximate a cognitive task.
- (5) An artificial system designed to act rationally, including an intelligent software agent or embodied robot that achieves goals using perception, planning, reasoning, learning, communicating, decision-making, and acting.

³ See Exec. Order No. 13,859, § 1, 84 Fed. Reg. at 3967.

national standard for a specific aspect related to AI is not essential, however, agencies should consider forgoing regulatory action.

Principles for the Stewardship of AI Applications

Consistent with law, agencies should take into consideration the following principles when formulating regulatory and non-regulatory approaches to the design, development, deployment, and operation of AI applications, both general and sector-specific. These principles, many of which are interrelated, reflect the goals and principles in Executive Order 13859. Agencies should calibrate approaches concerning these principles and consider case-specific factors to optimize net benefits.

Given that many AI applications do not necessarily raise novel issues, these considerations also reflect longstanding Federal regulatory principles and practices that are relevant to promoting the innovative use of AI. Promoting innovation and growth of AI is a high priority of the United States government. Fostering innovation and growth through forbearing from new regulations may be appropriate. Agencies should consider new regulation only after they have reached the decision, in light of the foregoing section and other considerations, that Federal regulation is necessary.

1. Public Trust in AI

AI is expected to have a positive impact across sectors of social and economic life, including employment, transportation, education, finance, healthcare, personal security, and manufacturing. At the same time, AI applications could pose risks to privacy, individual rights, autonomy, and civil liberties that must be carefully assessed and appropriately addressed. Its continued adoption and acceptance will depend significantly on public trust and validation. It is therefore important that the government's regulatory and non-regulatory approaches to AI promote reliable, robust, and trustworthy AI applications, which will contribute to public trust in AI. The appropriate regulatory or non-regulatory response to privacy and other risks must necessarily depend on the nature of the risk presented and the appropriate mitigations.

2. Public Participation

Public participation, especially in those instances where AI uses information about individuals, will improve agency accountability and regulatory outcomes, as well as increase public trust and confidence. Agencies should provide ample opportunities for the public to provide information and participate in all stages of the rulemaking process, to the extent feasible and consistent with legal requirements (including legal constraints on participation in certain situations, for example, national security preventing imminent threat to or responding to emergencies). Agencies are also encouraged, to the extent practicable, to inform the public and promote awareness and widespread availability of standards and the creation of other informative documents.

3. *Scientific Integrity and Information Quality*

The government’s regulatory and non-regulatory approaches to AI applications should leverage scientific and technical information and processes. Agencies should hold information, whether produced by the government or acquired by the government from third parties, that is likely to have a clear and substantial influence on important public policy or private sector decisions (including those made by consumers) to a high standard of quality, transparency, and compliance. Consistent with the principles of scientific integrity in the rulemaking and guidance processes, agencies should develop regulatory approaches to AI in a manner that both informs policy decisions and fosters public trust in AI. Best practices include transparently articulating the strengths, weaknesses, intended optimizations or outcomes, bias mitigation, and appropriate uses of the AI application’s results. Agencies should also be mindful that, for AI applications to produce predictable, reliable, and optimized outcomes, data used to train the AI system must be of sufficient quality for the intended use.

4. *Risk Assessment and Management*

Regulatory and non-regulatory approaches to AI should be based on a consistent application of risk assessment and risk management across various agencies and various technologies. It is not necessary to mitigate every foreseeable risk; in fact, a foundational principle of regulatory policy is that all activities involve tradeoffs. Instead, a risk-based approach should be used to determine which risks are acceptable and which risks present the possibility of unacceptable harm, or harm that has expected costs greater than expected benefits. Agencies should be transparent about their evaluations of risk and re-evaluate their assumptions and conclusions at appropriate intervals so as to foster accountability. Correspondingly, the magnitude and nature of the consequences should an AI tool fail, or for that matter succeed, can help inform the level and type of regulatory effort that is appropriate to identify and mitigate risks. Specifically, agencies should follow the direction in Executive Order 12866, “Regulatory Planning and Review,”⁴ to consider the degree and nature of the risks posed by various activities within their jurisdiction. Such an approach will, where appropriate, avoid hazard-based and unnecessarily precautionary approaches to regulation that could unjustifiably inhibit innovation.⁵

5. *Benefits and Costs*

When developing regulatory and non-regulatory approaches, agencies will often consider the application and deployment of AI into already-regulated industries. Presumably, such significant investments would not occur unless they offered significant economic potential. As in all technological transitions of this nature, the introduction of AI may also create unique challenges. For example, while the broader legal environment already applies to AI applications, the application of existing law to questions of responsibility and liability for decisions made by

⁴ Exec. Order No. 12,866, “Regulatory Planning and Review,” 58 Fed. Reg. 51,735 (Sept. 30, 1993), *available at* https://www.reginfo.gov/public/jsp/Utilities/EO_12866.pdf.

⁵ *See* Exec. Order No. 12,866, § 1(b)(5), 58 Fed. Reg. at 51,736 (“[E]ach agency shall consider incentives for innovation, consistency, predictability, [and] the cost of enforcement and compliance . . . to the government, regulated entities, and the public . . .”).

AI could be unclear in some instances, leading to the need for agencies, consistent with their authorities, to evaluate the benefits, costs, and distributional effects associated with any identified or expected method for accountability. Executive Order 12866 calls on agencies to “select those approaches that maximize net benefits (including potential economic, environmental, public health and safety, and other advantages; distributive impacts; and equity).”⁶ Agencies should, when consistent with law, carefully consider the full societal costs, benefits, and distributional effects before considering regulations related to the development and deployment of AI applications. Such consideration will include the potential benefits and costs of employing AI, when compared to the systems AI has been designed to complement or replace, whether implementing AI will change the type of errors created by the system, as well as comparison to the degree of risk tolerated in other existing ones. Agencies should also consider critical dependencies when evaluating AI costs and benefits, as technological factors (such as data quality) and changes in human processes associated with AI implementation may alter the nature and magnitude of the risks and benefits. In cases where a comparison to a current system or process is not available, evaluation of risks and costs of not implementing the system should be evaluated as well.

6. Flexibility

When developing regulatory and non-regulatory approaches, agencies should pursue performance-based and flexible approaches that can adapt to rapid changes and updates to AI applications. Rigid, design-based regulations that attempt to prescribe the technical specifications of AI applications will in most cases be impractical and ineffective, given the anticipated pace with which AI will evolve and the resulting need for agencies to react to new information and evidence. Targeted agency conformity assessment schemes, to protect health and safety, privacy, and other values, will be essential to a successful, and flexible, performance-based approach. To advance American innovation, agencies should keep in mind international uses of AI, ensuring that American companies are not disadvantaged by the United States’ regulatory regime.

7. Fairness and Non-Discrimination

Agencies should consider in a transparent manner the impacts that AI applications may have on discrimination. AI applications have the potential of reducing present-day discrimination caused by human subjectivity. At the same time, applications can, in some instances, introduce real-world bias that produces discriminatory outcomes or decisions that undermine public trust and confidence in AI. When considering regulations or non-regulatory approaches related to AI applications, agencies should consider, in accordance with law, issues of fairness and non-discrimination with respect to outcomes and decisions produced by the AI application at issue, as well as whether the AI application at issue may reduce levels of unlawful, unfair, or otherwise unintended discrimination as compared to existing processes.

⁶ *Id.* § 1(a).

8. Disclosure and Transparency

In addition to improving the rulemaking process, transparency and disclosure can increase public trust and confidence in AI applications. At times, such disclosures may include identifying when AI is in use, for instance, if appropriate for addressing questions about how the application impacts human end users. Agencies should be aware that some applications of AI could increase human autonomy. Agencies should carefully consider the sufficiency of existing or evolving legal, policy, and regulatory environments before contemplating additional measures for disclosure and transparency. What constitutes appropriate disclosure and transparency is context-specific, depending on assessments of potential harms, the magnitude of those harms, the technical state of the art, and the potential benefits of the AI application.

9. Safety and Security

Agencies should promote the development of AI systems that are safe, secure, and operate as intended, and encourage the consideration of safety and security issues throughout the AI design, development, deployment, and operation process. Agencies should pay particular attention to the controls in place to ensure the confidentiality, integrity, and availability of the information processed, stored, and transmitted by AI systems. Agencies should give additional consideration to methods for guaranteeing systemic resilience, and for preventing bad actors from exploiting AI system weaknesses, including cybersecurity risks posed by AI operation, and adversarial use of AI against a regulated entity's AI technology. When evaluating or introducing AI policies, agencies should be mindful of any potential safety and security risks, as well as the risk of possible malicious deployment and use of AI applications.

10. Interagency Coordination

A coherent and whole-of-government approach to AI oversight requires interagency coordination. Agencies should coordinate with each other to share experiences and to ensure consistency and predictability of AI-related policies that advance American innovation and growth in AI, while appropriately protecting privacy, civil liberties, and American values and allowing for sector- and application-specific approaches when appropriate. When OMB's Office of Information and Regulatory Affairs (OIRA) designates AI-related draft regulatory action as "significant" for purposes of interagency review under Executive Order 12866, OIRA will ensure that all agencies potentially affected by or interested in a particular action will have an opportunity to provide input.

Non-Regulatory Approaches to AI⁷

An agency may determine, after considering a particular AI application, that either existing regulations are sufficient or that the benefits of a new regulation do not justify its costs, at that time or in the foreseeable future. In these cases, the agency may consider either not taking any action or, instead, identifying non-regulatory approaches that may be appropriate to address the risk posed by certain AI applications. Examples of such non-regulatory approaches include:

⁷ Appendix A provides technical guidance on rulemaking to inform the development of regulatory approaches to AI applications.

- *Sector-Specific Policy Guidance or Frameworks.* Agencies should consider using any existing statutory authority to issue non-regulatory policy statements, guidance, or testing and deployment frameworks, as a means of encouraging AI innovation in that sector. Agencies should provide clarity where a lack of regulatory clarity may impede innovation. This may also include work done in collaboration with industry, such as development of playbooks and voluntary incentive frameworks.
- *Pilot Programs and Experiments.* Agencies should consider using any authority under existing law or regulation to grant waivers and exemptions from regulations, or to allow pilot programs that provide safe harbors for specific AI applications. Such programs may also include events such as hackathons, tech sprints, challenges, and other types of piloting programs. As part of such programs, agencies may collect data on the design, development, deployment, operation, or outcomes of AI applications to improve their understanding of the benefits and risks, which could produce useful data to inform future rulemaking and non-regulatory approaches. If this information is of significant public interest, agencies should consider periodically informing the general public about emerging trends to help coordinate research efforts, new or emerging changes that will affect particular stakeholders (*e.g.*, consumers), and transparency about how specific AI applications generate net benefits and, if relevant, distributional effects.
- *Voluntary Consensus Standards.* The private sector and other stakeholders may develop voluntary consensus standards that concern AI applications, which provide non-regulatory approaches to manage risks associated with AI applications that are potentially more adaptable to the demands of a rapidly evolving technology. Agencies should give a preference to voluntary consensus standards but may also avail themselves of independent standards-setting organizations and consider the robustness of their standards when evaluating the need for or developing related regulations. In addition, agencies should consider relying on private-sector conformity assessment programs and activities, before proposing either regulations or compliance programs.

Reducing Barriers to the Deployment and Use of AI

As discussed above, Executive Order 13859 requires OMB to issue a memorandum to agencies that shall “consider ways to reduce barriers to the use of AI technologies in order to promote their innovative application while protecting civil liberties, privacy, American values, and United States economic and national security.” Below are four non-exhaustive examples of actions agencies can take, outside the rulemaking process, to create an environment that facilitates the use and acceptance of AI.

Access to Federal Data and Models for AI R&D

Access to data (and metadata) can facilitate the innovative design, development, deployment, and operation of specific AI applications. Executive Order 13859 calls on agencies to increase public access to government data and models where appropriate. Increasing such access to government data must be done in a manner consistent with the Open, Public,

Electronic, and, Necessary Government Data Act;⁸ OMB Circular No. A-130 “Managing Information as a Strategic Resource;”⁹ and OMB Memorandum M-13-13, “Open Data Policy- Managing Information as an Asset,”¹⁰ which require agencies to collect and create information in a way that supports public transparency as well as downstream, secondary information dissemination and processing by third parties, thereby making government information accessible, discoverable, and usable.

Agencies should also follow forthcoming OMB guidance to agencies, pursuant to section 5 of Executive Order 13859, regarding discovery and usability of Federal data and models for non-Federal use. Agencies may also review their existing disclosure protocols to determine if it is appropriate to make more data public, as well as provide more granular data, rather than aggregate data. In increasing data access, agencies should not lose sight of the legal and policy requirements regarding the protection of sensitive information and vital public interests, such as privacy, security, and national economic competitiveness.¹¹

Communication to the Public

The process by which agencies develop and implement regulatory and non-regulatory approaches to AI applications will have a significant impact on public perceptions of AI. Consistent with the principles described in this Memorandum, agencies should communicate with the public about the benefits and risks of AI in a manner that gives the public appropriate trust and understanding of AI. An important opportunity to do this is when publishing requests for information (RFIs) in the Federal Register that are related to AI. RFIs and similar notices can help ensure that public perceptions of AI are informed by agency risk assessments that are context-specific and based on sound scientific evidence. Agencies should communicate this information transparently by describing the underlying assumptions and uncertainties regarding expected outcomes, both positive and negative. For more specific guidance, agencies should consult OSTP’s 2010 memorandum on scientific integrity when considering regulatory and non-regulatory approaches to AI.¹² Agencies are also encouraged to promote widespread availability of guidance documents that may be created.¹³

⁸ The Open, Public, Electronic, and Necessary (OPEN) Government Data Act, Pub. L. No. 115-435, 132 Stat. 5534 (2019) (Title II of the Foundations for Evidence-Based Policymaking Act of 2018).

⁹ Office of Mgm’t & Budget, Exec. Office of the President, OMB Circular No. A-130, Managing Information as a Strategic Resource (2013), *available at* <https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/circulars/A130/a130revised.pdf>.

¹⁰ Office of Mgm’t & Budget, Exec. Office of the President, OMB M-13-13, Open Data Policy: Managing Information as an Asset (2013), *available at* <https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/memoranda/2013/m-13-13.pdf>.

¹¹ *See, e.g.*, Privacy Act of 1974 (codified at 5 U.S.C. § 552a); Trade Secrets Act (codified at 18 U.S.C. § 1905); Federal Information Security Modernization Act of 2014 (codified at 44 U.S.C. §§ 3551–3558); Confidential Information Protection and Statistical Efficiency Act of 2018 (codified at 44 U.S.C. § 3561, *et seq.*) (Title III of the Foundations for Evidence-Based Policymaking Act of 2018).

¹² John P. Holdren, Office of Sci. & Tech. Pol’y, Memorandum for the Heads of Executive Departments and Agencies: Scientific Integrity (December 17, 2010), *available at* <https://obamawhitehouse.archives.gov/sites/default/files/microsites/ostp/scientific-integrity-memo-12172010.pdf>.

¹³ *See* Office of Mgm’t & Budget, Exec. Office of the President, Final Bulletin for Agency Good Guidance Practices, 72 Fed. Reg. 3432 (January 25, 2007), *available at*

Agency Participation in the Development and Use of Voluntary Consensus Standards and Conformity Assessment Activities

Executive Order 13859 calls for Federal engagement in the development of technical standards and related tools in support of reliable, robust, and trustworthy systems that use AI technologies. To promote innovation, use, and adoption of AI applications, standards could address many technical aspects, such as AI performance, measurement, safety, security, privacy, interoperability, robustness, trustworthiness, and governance. Moreover, Federal engagement with the private sector on the development of voluntary consensus standards will help agencies develop expertise in AI and identify practical standards for use in regulation. As directed by E.O. 13859, the National Institute of Standards and Technology (NIST) developed a plan for Federal engagement in AI standards.¹⁴ Agencies should use this plan to direct their involvement in AI standards development relevant to their authorities.

When engaging with private sector standard-setting organizations, agencies should adhere to OMB Circular A-119, “Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities.”¹⁵ Consistent with Section 12(d)(1) of the National Technology Transfer and Advancement Act of 1995, all Federal agencies must use voluntary consensus standards in place of government-unique standards in their procurement and regulatory activities, except where inconsistent with law or otherwise impractical.¹⁶

Agencies should also consider effective approaches to conformity assessment for AI applications. Conformity assessment procedures provide a means of enhancing the confidence that the products, services, systems, persons, or bodies have specifically required characteristics, and that these characteristics are consistent from product to product, service to service, system to system, and in similar scenarios. Agencies should rely on the guidance in NIST publications to understand conformity assessment concepts¹⁷ and to use conformity assessment in an effective and efficient manner that meets agency requirements.¹⁸

https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/assets/regulatory_matters_pdf/012507_good_guidance.pdf.

¹⁴ Nat’l Inst. of Standards & Tech., U.S. Dep’t of Commerce, U.S. Leadership in AI: A Plan for Federal Engagement in Developing Technical Standards and Related Tools (August 9, 2019), *available at*

<https://www.nist.gov/topics/artificial-intelligence/plan-federal-engagement-developing-ai-technical-standards-and-related>.

¹⁵ Office of Mgm’t & Budget, Exec. Office of the President, OMB Circular A-119, Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities (January 27, 2016), *available at* https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/circulars/A119/revised_circular_a-119_as_of_1_22.pdf.

¹⁶ See Pub. L. No. 104-113, § 12(d), 110 Stat. 775, 783 (1996) (as codified at 15 U.S.C. § 272, note).

¹⁷ Lisa Carnahan & Amy Phelps, Nat’l Inst. of Standards and Tech., U.S. Dep’t of Commerce, ABC’s of Conformity Assessment, NIST Special Pub. 2000-01 (Sept. 2018), *available at* <https://doi.org/10.6028/NIST.SP.2000-01>.

¹⁸ Lisa Carnahan & Amy Phelps, Nat’l Inst. of Standards and Tech., U.S. Dep’t of Commerce, Conformity Assessment Considerations for Federal Agencies, NIST Special Pub. 2000-02 (Sept. 2018), *available at* <https://doi.org/10.6028/NIST.SP.2000-02>.

International Regulatory Cooperation

Executive Order 13609, “Promoting International Regulatory Cooperation,” calls on the Regulatory Working Group, which was established by Executive Order 12866, to consider “appropriate strategies for engaging in the development of regulatory approaches through international regulatory cooperation, particularly in emerging technology areas.”¹⁹ Accordingly, agencies should engage in dialogues to promote consistent regulatory approaches to AI that promote American AI innovation while protecting privacy, civil rights, civil liberties, and American values. Such discussions, including those with the general public, can provide valuable opportunities to share best practices, data, and lessons learned, and ensure that America remains at the forefront of AI development.

Agency Plans to Achieve Consistency with this Memorandum

Executive Order 13859 requires that implementing agencies with regulatory authorities review their authorities relevant to AI applications and submit plans to OMB on achieving consistency with this Memorandum.

The agency plan must identify any statutory authorities specifically governing agency regulation of AI applications, as well as collections of AI-related information from regulated entities. For these collections, agencies should describe any statutory restrictions on the collection or sharing of information (*e.g.*, confidential business information, personally identifiable information, protected health information, law enforcement information, and classified or other national security information). The agency plan must also report on the outcomes of stakeholder engagements that identify existing regulatory barriers to AI applications and high-priority AI applications that are within an agency’s regulatory authorities. OMB also requests agencies to list and describe any planned or considered regulatory actions on AI. Appendix B provides a template for agency plans.

Agency plans are due on [date 180 days after this Memorandum is issued] and should be submitted to [xx@omb.eop.gov].

¹⁹ Exec. Order 13,609, Promoting International Regulatory Cooperation, § 2(ii)(A), 77 Fed. Reg. 26,413, 26,413 (May 1, 2012), *available at* https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/inforeg/inforeg/eo_13609/eo13609_05012012.pdf.

Appendix A: Technical Guidance on Rulemaking

Consistent with applicable law and Executive Order 12866, before deciding to regulate, an agency must first identify the problem it seeks to address and consider whether regulation is justified or if non-regulatory approaches are appropriate. This process will often begin by assessing the adequacy of existing regulation at a Federal, State, or local level, as well as potential actions by private parties.

In considering regulatory and non-regulatory approaches to the development and deployment of AI, it is important to recognize the unique characteristics of AI. For example, while the rapid emergence of new paradigms can foster innovation that the government should not hinder, the pace of AI development and application will challenge agencies to develop regulatory and non-regulatory approaches that are adaptable. In addition, current technical challenges in creating interpretable AI can make it difficult for agencies to ensure a level of transparency necessary for humans to understand the decision-making of AI applications. The following discussion of various technical aspects of the regulatory process will help agencies address the unique aspects of the rapidly changing AI landscape.

Regulatory Impact Analysis

A regulatory analysis should begin with a clear explanation of the need for the regulatory action, including a description of the problem that the agency seeks to address. In the case of AI, agencies should explain whether the action is intended to address a market failure (*e.g.*, asymmetric information) or address another factor, such as protecting privacy or civil liberties, preventing unlawful discrimination, or advancing the United States' economic and national security. Often, in order to pursue the larger goals of this Executive Order, agencies should consider whether a change in regulatory policy is needed due to the adoption of AI applications in an already regulated industry, or due to the development of substantially new industries facilitated by AI. In addition, agencies should “consider how best to promote retrospective analysis of rules that may be outmoded, ineffective, insufficient, or excessively burdensome, and to modify, streamline, expand, or repeal them in accordance with what has been learned,” in accordance with Executive Order 13563, “Improving Regulation and Regulatory Review.”²⁰ In conducting such retrospective reviews, agencies can determine whether regulatory changes are necessary to remove barriers to the adoption of net beneficial AI systems by identifying and promulgating deregulatory actions, consistent with Executive Orders 13771, “Reducing Regulation and Controlling Regulatory Costs,”²¹ and 13777, “Enforcing the Regulatory Reform Agenda.”²²

After identifying a set of potential regulatory approaches, the agency should conduct a benefit-cost analysis that estimates the benefits and costs associated with each alternative

²⁰ Exec. Order No. 13,563, Improving Regulation and Regulatory Review, § 6(a), 76 Fed. Reg. 3821 (Jan. 18, 2011), available at

https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/inforeg/inforeg/eo12866/eo13563_01182011.pdf.

²¹ Exec. Order No. 13,771, Reducing Regulation and Controlling Regulatory Costs, 82 Fed. Reg. 9339 (Jan. 30, 2017), available at <https://www.govinfo.gov/content/pkg/FR-2017-02-03/pdf/2017-02451.pdf>.

²² Exec. Order No. 13,777, Enforcing the Regulatory Reform Agenda, 82 Fed. Reg. 12,285 (Feb. 24, 2017), available at <https://www.govinfo.gov/content/pkg/FR-2017-03-01/pdf/2017-04107.pdf>.

approach. The benefits and costs should be quantified and monetized to the extent possible and appropriate, and presented in both physical units (*e.g.*, number of accidents avoided) and monetary terms. When quantification of a particular benefit or cost is not possible, it should be described qualitatively. The analysis of these alternatives should also evaluate, where relevant and appropriate and consistent with Executive Order 13859, impacts to equity, human dignity, fairness, potential distributive impacts, privacy and civil liberties, and personal freedom. The agency's analysis should be based on the best available scientific, technical, and economic information. Agencies should rely on OMB Circular A-4, "Regulatory Analysis," for more technical guidance.²³

Public Consultation

The informal rulemaking process under the Administrative Procedure Act provides predictable and meaningful opportunities for interested stakeholders to provide input on draft regulations and scrutinize the evidence and analytic bases of regulatory proposals. In soliciting public input on Notices of Proposed Rulemaking (NPRMs) that relate to AI applications, agencies will benefit from the perspectives and expertise of stakeholders engaged in the design, development, deployment, operation, and impact of AI applications, and facilitate a decision-making process that is more transparent and accountable.

To the extent feasible, agencies should also provide opportunities for stakeholder consultation before the NPRM stage, including through the issuance, when appropriate, of RFIs and Advance Notices of Proposed Rulemaking (ANPRMs) to inform decisions about the need to regulate. Agencies should also consider holding stakeholder and public meetings both prior to issuing an NPRM and during the public comment period.

Assessing Risk

When humans delegate decision-making and other functions to AI applications, there is a risk that AI's pursuit of its defined goals may diverge from the underlying or original human intent and cause unintended consequences—including those that negatively impact privacy, civil rights, civil liberties, confidentiality, security, and safety. Because traditional forms of delegated decision-making are accompanied by risks that present some—although not all—of the dynamics present in the case of delegation to AI, existing approaches to risk continue to be relevant. In addition, because components of AI applications, such as algorithms or the data they are trained on and use, may be sensitive or subject to legal protections (*e.g.*, privacy or intellectual property), agencies should consider the risks of inadequate protections to algorithms and data throughout the design, development, deployment, and operation of an AI system, given the level of sensitivity of the algorithms and data. Agencies should also consider that an AI application could be deployed in a manner that yields anticompetitive effects that favors incumbents at the expense of new market entrants, competitors, or up-stream or down-stream business partners.

²³ Office of Mgm't & Budget, Exec. Office of the President, OMB Circular A-4, Regulatory Analysis (Sept. 17, 2003), available at <https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/circulars/A4/a-4.pdf>.

Managing Risk

The management of risks created by AI applications should be appropriate to, and commensurate with, the degree of risk that an agency determines in its assessment. In general, as emphasized above, the agencies should also be comparing risks unique to the AI application to other similar risks associated with not using such applications within a regulatory framework or risks mitigated by the adoption of AI. For AI applications, agencies should adopt a tiered approach in which the degree of risk and consequences of both success and failure of the technology determines the regulatory approach, including the option of not regulating. Agencies should be aware that there is always likely to be at least some risk, including that associated with not knowing what is currently unknown. For AI applications that pose lower risks, agencies can rely on less stringent and burdensome regulatory approaches—or non-regulatory approaches—such as requiring information disclosures or consumer education. For higher risk AI applications, agencies should consider the impact to the individual, the environments in which they will be deployed, the necessity or availability of redundant or back-up systems, the system architecture or capability control methods available when an AI application makes an error or fails, and how those errors and failures can be detected and remediated.

Appendix B: Template for Agency Plans

| Agency | |
|---|--------------------------|
| 1. Statutory Authorities Directing or Authorizing Agency Regulation of AI Applications. List and describe any statutes that direct or authorize your agency to issue regulations specifically on the development and use of AI applications. | |
| Statute | Brief Description |
| | |
| | |
| | |
| 2. Active Collections of AI-Related Information. List and describe any of your agency’s collections of information approved by OMB under the Paperwork Reduction Act that relate directly to the design, development, deployment, and operation of AI applications in the private sector, including if there are any statutory or regulatory restrictions on the use or sharing of this information. | |
| Title/OMB Control Number | Brief Description |
| | |
| | |
| | |
| 3. AI use case priorities. Informed by stakeholder engagement, list and describe AI applications that are within your agency’s regulatory authorities. | |
| AI use case | Brief Description |
| | |
| | |
| | |
| 4. AI regulatory barriers. Informed by stakeholder engagement, list and describe existing processes, policies, or regulations that inhibit development or commercialization of AI applications within your agency’s authority. | |
| Process, policy, or regulation | Brief description |
| | |

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|--|--------------------------|
| | |
| | |
| | |
| <p>5. Planned Regulatory Actions Concerning AI Applications. List and describe any planned or considered regulatory actions and provide, to the extent possible, information about the agency’s consideration of the principles and approaches described in OMB Memorandum M-20-xx.</p> | |
| Regulatory Action | Brief description |
| | |
| | |
| | |

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Presidential Documents

Title 3—

Executive Order 13859 of February 11, 2019

The President

Maintaining American Leadership in Artificial Intelligence

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

Section 1. *Policy and Principles.* Artificial Intelligence (AI) promises to drive growth of the United States economy, enhance our economic and national security, and improve our quality of life. The United States is the world leader in AI research and development (R&D) and deployment. Continued American leadership in AI is of paramount importance to maintaining the economic and national security of the United States and to shaping the global evolution of AI in a manner consistent with our Nation's values, policies, and priorities. The Federal Government plays an important role in facilitating AI R&D, promoting the trust of the American people in the development and deployment of AI-related technologies, training a workforce capable of using AI in their occupations, and protecting the American AI technology base from attempted acquisition by strategic competitors and adversarial nations. Maintaining American leadership in AI requires a concerted effort to promote advancements in technology and innovation, while protecting American technology, economic and national security, civil liberties, privacy, and American values and enhancing international and industry collaboration with foreign partners and allies. It is the policy of the United States Government to sustain and enhance the scientific, technological, and economic leadership position of the United States in AI R&D and deployment through a coordinated Federal Government strategy, the American AI Initiative (Initiative), guided by five principles:

(a) The United States must drive technological breakthroughs in AI across the Federal Government, industry, and academia in order to promote scientific discovery, economic competitiveness, and national security.

(b) The United States must drive development of appropriate technical standards and reduce barriers to the safe testing and deployment of AI technologies in order to enable the creation of new AI-related industries and the adoption of AI by today's industries.

(c) The United States must train current and future generations of American workers with the skills to develop and apply AI technologies to prepare them for today's economy and jobs of the future.

(d) The United States must foster public trust and confidence in AI technologies and protect civil liberties, privacy, and American values in their application in order to fully realize the potential of AI technologies for the American people.

(e) The United States must promote an international environment that supports American AI research and innovation and opens markets for American AI industries, while protecting our technological advantage in AI and protecting our critical AI technologies from acquisition by strategic competitors and adversarial nations.

Sec. 2. *Objectives.* Artificial Intelligence will affect the missions of nearly all executive departments and agencies (agencies). Agencies determined to be implementing agencies pursuant to section 3 of this order shall pursue six strategic objectives in furtherance of both promoting and protecting American advancements in AI:

(a) Promote sustained investment in AI R&D in collaboration with industry, academia, international partners and allies, and other non-Federal entities

to generate technological breakthroughs in AI and related technologies and to rapidly transition those breakthroughs into capabilities that contribute to our economic and national security.

(b) Enhance access to high-quality and fully traceable Federal data, models, and computing resources to increase the value of such resources for AI R&D, while maintaining safety, security, privacy, and confidentiality protections consistent with applicable laws and policies.

(c) Reduce barriers to the use of AI technologies to promote their innovative application while protecting American technology, economic and national security, civil liberties, privacy, and values.

(d) Ensure that technical standards minimize vulnerability to attacks from malicious actors and reflect Federal priorities for innovation, public trust, and public confidence in systems that use AI technologies; and develop international standards to promote and protect those priorities.

(e) Train the next generation of American AI researchers and users through apprenticeships; skills programs; and education in science, technology, engineering, and mathematics (STEM), with an emphasis on computer science, to ensure that American workers, including Federal workers, are capable of taking full advantage of the opportunities of AI.

(f) Develop and implement an action plan, in accordance with the National Security Presidential Memorandum of February 11, 2019 (Protecting the United States Advantage in Artificial Intelligence and Related Critical Technologies) (the NSPM) to protect the advantage of the United States in AI and technology critical to United States economic and national security interests against strategic competitors and foreign adversaries.

Sec. 3. Roles and Responsibilities. The Initiative shall be coordinated through the National Science and Technology Council (NSTC) Select Committee on Artificial Intelligence (Select Committee). Actions shall be implemented by agencies that conduct foundational AI R&D, develop and deploy applications of AI technologies, provide educational grants, and regulate and provide guidance for applications of AI technologies, as determined by the co-chairs of the NSTC Select Committee (implementing agencies).

Sec. 4. Federal Investment in AI Research and Development.

(a) Heads of implementing agencies that also perform or fund R&D (AI R&D agencies), shall consider AI as an agency R&D priority, as appropriate to their respective agencies' missions, consistent with applicable law and in accordance with the Office of Management and Budget (OMB) and the Office of Science and Technology Policy (OSTP) R&D priorities memoranda. Heads of such agencies shall take this priority into account when developing budget proposals and planning for the use of funds in Fiscal Year 2020 and in future years. Heads of these agencies shall also consider appropriate administrative actions to increase focus on AI for 2019.

(b) Heads of AI R&D agencies shall budget an amount for AI R&D that is appropriate for this prioritization.

(i) Following the submission of the President's Budget request to the Congress, heads of such agencies shall communicate plans for achieving this prioritization to the OMB Director and the OSTP Director each fiscal year through the Networking and Information Technology Research and Development (NITRD) Program.

(ii) Within 90 days of the enactment of appropriations for their respective agencies, heads of such agencies shall identify each year, consistent with applicable law, the programs to which the AI R&D priority will apply and estimate the total amount of such funds that will be spent on each such program. This information shall be communicated to the OMB Director and OSTP Director each fiscal year through the NITRD Program.

(c) To the extent appropriate and consistent with applicable law, heads of AI R&D agencies shall explore opportunities for collaboration with non-

Federal entities, including: the private sector; academia; non-profit organizations; State, local, tribal, and territorial governments; and foreign partners and allies, so all collaborators can benefit from each other's investment and expertise in AI R&D.

Sec. 5. *Data and Computing Resources for AI Research and Development.*

(a) Heads of all agencies shall review their Federal data and models to identify opportunities to increase access and use by the greater non-Federal AI research community in a manner that benefits that community, while protecting safety, security, privacy, and confidentiality. Specifically, agencies shall improve data and model inventory documentation to enable discovery and usability, and shall prioritize improvements to access and quality of AI data and models based on the AI research community's user feedback.

(i) Within 90 days of the date of this order, the OMB Director shall publish a notice in the *Federal Register* inviting the public to identify additional requests for access or quality improvements for Federal data and models that would improve AI R&D and testing. Additionally, within 90 days of the date of this order, OMB, in conjunction with the Select Committee, shall investigate barriers to access or quality limitations of Federal data and models that impede AI R&D and testing. Collectively, these actions by OMB will help to identify datasets that will facilitate non-Federal AI R&D and testing.

(ii) Within 120 days of the date of this order, OMB, including through its interagency councils and the Select Committee, shall update implementation guidance for Enterprise Data Inventories and Source Code Inventories to support discovery and usability in AI R&D.

(iii) Within 180 days of the date of this order, and in accordance with the implementation of the Cross-Agency Priority Goal: Leveraging Federal Data as a Strategic Asset, from the March 2018 President's Management Agenda, agencies shall consider methods of improving the quality, usability, and appropriate access to priority data identified by the AI research community. Agencies shall also identify any associated resource implications.

(iv) In identifying data and models for consideration for increased public access, agencies, in coordination with the Senior Agency Officials for Privacy established pursuant to Executive Order 13719 of February 9, 2016 (Establishment of the Federal Privacy Council), the heads of Federal statistical entities, Federal program managers, and other relevant personnel shall identify any barriers to, or requirements associated with, increased access to and use of such data and models, including:

(A) privacy and civil liberty protections for individuals who may be affected by increased access and use, as well as confidentiality protections for individuals and other data providers;

(B) safety and security concerns, including those related to the association or compilation of data and models;

(C) data documentation and formatting, including the need for interoperable and machine-readable data formats;

(D) changes necessary to ensure appropriate data and system governance; and

(E) any other relevant considerations.

(v) In accordance with the President's Management Agenda and the Cross-Agency Priority Goal: Leveraging Data as a Strategic Asset, agencies shall identify opportunities to use new technologies and best practices to increase access to and usability of open data and models, and explore appropriate controls on access to sensitive or restricted data and models, consistent with applicable laws and policies, privacy and confidentiality protections, and civil liberty protections.

(b) The Secretaries of Defense, Commerce, Health and Human Services, and Energy, the Administrator of the National Aeronautics and Space Administration, and the Director of the National Science Foundation shall, to the extent appropriate and consistent with applicable law, prioritize the allocation of high-performance computing resources for AI-related applications through:

(i) increased assignment of discretionary allocation of resources and resource reserves; or

(ii) any other appropriate mechanisms.

(c) Within 180 days of the date of this order, the Select Committee, in coordination with the General Services Administration (GSA), shall submit a report to the President making recommendations on better enabling the use of cloud computing resources for federally funded AI R&D.

(d) The Select Committee shall provide technical expertise to the American Technology Council on matters regarding AI and the modernization of Federal technology, data, and the delivery of digital services, as appropriate.

Sec. 6. *Guidance for Regulation of AI Applications.*

(a) Within 180 days of the date of this order, the OMB Director, in coordination with the OSTP Director, the Director of the Domestic Policy Council, and the Director of the National Economic Council, and in consultation with any other relevant agencies and key stakeholders as the OMB Director shall determine, shall issue a memorandum to the heads of all agencies that shall:

(i) inform the development of regulatory and non-regulatory approaches by such agencies regarding technologies and industrial sectors that are either empowered or enabled by AI, and that advance American innovation while upholding civil liberties, privacy, and American values; and

(ii) consider ways to reduce barriers to the use of AI technologies in order to promote their innovative application while protecting civil liberties, privacy, American values, and United States economic and national security.

(b) To help ensure public trust in the development and implementation of AI applications, OMB shall issue a draft version of the memorandum for public comment before it is finalized.

(c) Within 180 days of the date of the memorandum described in subsection (a) of this section, the heads of implementing agencies that also have regulatory authorities shall review their authorities relevant to applications of AI and shall submit to OMB plans to achieve consistency with the memorandum.

(d) Within 180 days of the date of this order, the Secretary of Commerce, through the Director of the National Institute of Standards and Technology (NIST), shall issue a plan for Federal engagement in the development of technical standards and related tools in support of reliable, robust, and trustworthy systems that use AI technologies. NIST shall lead the development of this plan with participation from relevant agencies as the Secretary of Commerce shall determine.

(i) Consistent with OMB Circular A-119, this plan shall include:

(A) Federal priority needs for standardization of AI systems development and deployment;

(B) identification of standards development entities in which Federal agencies should seek membership with the goal of establishing or supporting United States technical leadership roles; and

(C) opportunities for and challenges to United States leadership in standardization related to AI technologies.

(ii) This plan shall be developed in consultation with the Select Committee, as needed, and in consultation with the private sector, academia, non-governmental entities, and other stakeholders, as appropriate.

Sec. 7. *AI and the American Workforce.*

(a) Heads of implementing agencies that also provide educational grants shall, to the extent consistent with applicable law, consider AI as a priority area within existing Federal fellowship and service programs.

(i) Eligible programs for prioritization shall give preference to American citizens, to the extent permitted by law, and shall include:

(A) high school, undergraduate, and graduate fellowship; alternative education; and training programs;

(B) programs to recognize and fund early-career university faculty who conduct AI R&D, including through Presidential awards and recognitions;

(C) scholarship for service programs;

(D) direct commissioning programs of the United States Armed Forces; and

(E) programs that support the development of instructional programs and curricula that encourage the integration of AI technologies into courses in order to facilitate personalized and adaptive learning experiences for formal and informal education and training.

(ii) Agencies shall annually communicate plans for achieving this prioritization to the co-chairs of the Select Committee.

(b) Within 90 days of the date of this order, the Select Committee shall provide recommendations to the NSTC Committee on STEM Education regarding AI-related educational and workforce development considerations that focus on American citizens.

(c) The Select Committee shall provide technical expertise to the National Council for the American Worker on matters regarding AI and the American workforce, as appropriate.

Sec. 8. *Action Plan for Protection of the United States Advantage in AI Technologies.*

(a) As directed by the NSPM, the Assistant to the President for National Security Affairs, in coordination with the OSTP Director and the recipients of the NSPM, shall organize the development of an action plan to protect the United States advantage in AI and AI technology critical to United States economic and national security interests against strategic competitors and adversarial nations.

(b) The action plan shall be provided to the President within 120 days of the date of this order, and may be classified in full or in part, as appropriate.

(c) Upon approval by the President, the action plan shall be implemented by all agencies who are recipients of the NSPM, for all AI-related activities, including those conducted pursuant to this order.

Sec. 9. *Definitions.* As used in this order:

(a) the term “artificial intelligence” means the full extent of Federal investments in AI, to include: R&D of core AI techniques and technologies; AI prototype systems; application and adaptation of AI techniques; architectural and systems support for AI; and cyberinfrastructure, data sets, and standards for AI; and

(b) the term “open data” shall, in accordance with OMB Circular A-130 and memorandum M-13-13, mean “publicly available data structured in a way that enables the data to be fully discoverable and usable by end users.”

Sec. 10. *General Provisions.*

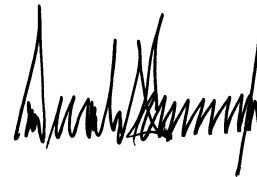
(a) Nothing in this order shall be construed to impair or otherwise affect:

(i) the authority granted by law to an executive department or agency, or the head thereof; or

(ii) the functions of the Director of OMB relating to budgetary, administrative, or legislative proposals.

(b) This order shall be implemented consistent with applicable law and subject to the availability of appropriations.

(c) This order is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.

A handwritten signature in black ink, appearing to be Donald Trump, located on the right side of the page.

THE WHITE HOUSE,
February 11, 2019.