

Appendix E: Funding Recommendation Table

Funding Recommendation Table

Chapter	Recommendation	Cabinet Departments, Major Agencies, and Program Offices	Amount	Appropriations Detail	
Chapter 1 – Emerging Threats in the AI Era	1	Create a Foreign Malign Influence Response Joint Interagency Task Force (JIATF).	Office of the Director of National Intelligence	\$30 million	-
	2	Increase DARPA funding for media authentication, disinformation detection, attribution, and disruption.	Department of Defense: USD(R&E) - DARPA	\$60 million to \$80 million	-
	3	Fund a machine speed AI-enabled cyber defense acceleration study.	Department of Homeland Security	\$10 million	-
	4	Increase DARPA funding for AI-enabled cyber defense research.	Department of Defense: USD(R&E) - DARPA	\$20 million	-
	5	Increase National Institute of Standards and Technology AI testbed funding.	National Institute of Standards and Technology	\$25 million	-
	6	Provide funding for a SolarWinds threat review.	Cyberspace Solarium Commission	\$6.5 million	-

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Chapter 2 – Foundations of Future Defense	1	Establish a dedicated AI Fund.	Department of Defense: USD(R&E)	\$200 million -
	2	Increase investments in AI R&D.	Department of Defense	\$8 billion -
	3	Establish a fund to to accelerate procurement and integration of commercial AI solutions for business applications.	Department of Defense: Joint Artificial Intelligence Center	\$100 million -
	4	Provide funding to build enterprise data sets.	Department of Defense: Office of the Chief Data Officer	\$125 million -
	5	Provide funding for technology scouting tools, data, and a technology fellows program.	Department of Defense, USD(R&E)	\$10 million -
Chapter 3 – AI and Warfare	1	Develop innovative operational concepts that integrate new warfighting capabilities with emerging technologies.	Department of Defense: USD(R&E)	\$5 million -
	2	Incentivize experimentation with AI-enabled applications through the Warfighting Lab Incentive Fund (WLIF).	Department of Defense: USD(R&E)	\$10 million -
	3	Encourage a culture of "Thinking Red."	Department of Defense: Joint Warfighting Analysis Center	\$2.5 million -

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Chapter 3 – AI and Warfare	4	Direct the military services, in coordination with the Under Secretary of Defense (for Acquisition and Sustainment), the Joint Staff, and the Defense Logistics Agency, and enabled by enterprise services and expertise at the JAIC, to prioritize integration of AI into logistics and sustainment systems wherever possible.	Department of Defense: Office of the Deputy Secretary of Defense	\$100 million	-
	5	Define a joint warfighting network architecture by the end of 2021.	“Department of Defense: Office of the Chief Information Officer”	\$5 million	-
Chapter 5 – AI and the Future of National Intelligence	1	Work with the intelligence community to establish a 10-year, \$1 billion, Program of Record to provide long-term, predictable funding for technologies identified in the technology annex to the National Intelligence Strategy.	Office of the Director of National Intelligence	\$1 billion annually for FYs 2022-2032	-
Chapter 6 – Technical Talent in Government	1	Congress should create a National Reserve Digital Corps.	Office of Management and Budget	\$16 million	-
	2	Congress should establish a STEM Corps.	Department of Defense	\$5 million for FY 2022 & \$5 million for FY 2023	-
	3	Congress should create a United States Digital Service Academy.	New Entity	\$40 million initial appropriation	-

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Chapter 7 – Establishing Justified Confidence in AI Systems	1 Appoint responsible AI leads and supporting staff in each agency critical to national security.	Department of Defense; Office of the Director of National Intelligence; Department of Homeland Security; Federal Bureau of Investigation; Department of State; Department of Energy; & Department of Health and Human Services	\$21.5 million	This funding supports one responsible AI lead and two supporting staff. Additionally, the funding includes responsible AI leads for each of the armed services in the Department of Defense and each of the agencies of the Intelligence Community.
Chapter 8 – Upholding Democratic Values	1 Congress should establish third-party testing center(s) to allow independent, third-party testing of national security-related AI systems that could impact U.S. persons.	National Institute of Standards and Technology	\$1.2 million	-
Chapter 9 – A Strategy for Competition and Cooperation	1 Create a Technology Competitiveness Council.	The White House: Executive Office of the President	\$2 million	-
Chapter 10 – The Talent Competition	1 Congress should pass a new National Defense Education Act.	Department of Education; National Science Foundation	One time appropriation of \$8.2 billion	-
Chapter 11 – Accelerating AI Innovation	1 Establish a National Technology Foundation.	New Entity	\$30 million initial appropriation for start-up expenses; \$1 billion for FY 2022; \$5 billion for FY 2023; \$10 billion for FY 2024; \$15 billion for FY 2025; & \$20 billion for FY 2026	-

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Chapter 11 – Accelerating AI Innovation	1	Increase federal funding of Non-Defense AI R&D at compounding levels.	Multiple agencies, including: the NSCAI proposed National Technology Foundation; National Science Foundation; Department of Energy; National Institute of Standards and Technology; National Institutes of Health; & National Aeronautical and Space Administration	\$2 billion for FY 2022; \$4 billion for FY 2023; \$8 billion for FY 2024; \$16 billion for FY 2025; & \$32 billion for FY 2026	-
	2	Expand the Network of AI Research Institutes.	National Science Foundation	\$200 million for FY 2022; \$200 million for FY 2023; & \$200 million for FY 2024	-
	3	Establish an AI Innovator Award.	National Science Foundation	\$125 million	-
	4	Establish a team-based AI Award.	National Science Foundation	\$50 million for FY 2022; \$100 million for FY 2023; \$150 million for FY 2024; \$200 million for FY 2025; & \$250 million annually for FYs 2026-2028	-
	5	Implement the NAIRR Roadmap.	National Science Foundation	\$30 million	-
	6	Fund an AI Data Program.	Department of Energy	\$25 million	-
	7	Sponsor an Open Knowledge Network.	National Science Foundation	\$25 million	-
	8	Form a network of Regional Innovation Clusters.	National Institute of Standards and Technology	\$200 million for FYs 2022-2026	Funding recommended at \$20 million per Regional Innovation Cluster

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Chapter 13 – Microelectronics	1	Increase federal grants for microelectronics manufacturing.	Department of Commerce	\$15 billion total	\$3 billion per project on average
	2	Increase funding for DARPA’s Electronics Resurgence Initiative (ERI).	Department of Defense: USD(R&E) - DARPA	\$400 million for FY 2022 & \$5 billion total for FYs 2022-2026	These funding levels should ramp up on an annual basis as absorptive capacity increases
	3	Increase funding for National Science Foundation semiconductor research.	National Science Foundation	\$300 million for FY 2022 & \$2.5 billion total for FYs 2022-2026	These funding levels should ramp up on an annual basis as absorptive capacity increases
	4	Increase funding for Department of Energy semiconductor research.	Department of Energy	\$400 million for FY 2022 & \$4.5 billion total for FYs 2022-2026	These funding levels should ramp up on an annual basis as absorptive capacity increases
	5	Establish the Advanced Packaging National Manufacturing Program.	National Institute of Standards and Technology	\$1 billion for FY 2022 & \$5 billion total for FYs 2022-2026	-
	6	Establish the National Semiconductor Technology Center.	Department of Commerce in collaboration with the Department of Defense and Department of Energy	\$100 million FY 2022 & \$2 billion total for FYs 2022-2026	-

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Chapter 15 – A Favorable International AI Order	1 Provide funding for U.S. International Development Finance Corporation to execute development financing for technology infrastructure projects.	U.S. International Development Finance Corporation	\$1 billion	-
	2 Provide funding to support U.S. International Development Finance Corporation development financing initiatives.	Department of State; U.S. Agency for International Development	\$200 million	-
	3 Provide funding for U.S. Agency for International Development Digital Strategy.	U.S. Agency for International Development: Bureau of Democracy, Development, and Innovation	\$200 million	-
	4 Provide funding for an Interagency AI Standards team to support National Institute of Standards and Technology AI Standards Coordinator and fund travel and other administrative needs.	National Institute of Standards and Technology; Department of Defense; Department of State; Office of the Director of National Intelligence; Department of Energy; Department of Homeland Security; U.S. Agency for International Development	\$3.3 million	Funding includes five full-time employee (FTE) from National Institute of Standards and Technology and one FTE from each of the following departments and agencies: Department of Defense, Department of State, Office of the Director of National Intelligence, Department of Energy, Department of Homeland Security, and U.S. Agency for International Development.
	5 Provide funding to support grants for small- and medium-sized businesses to participate in international data and technical standards efforts.	Small Business Administration	\$1 million	-

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Chapter 15 – A Favorable International AI Order	6 Funding for administrative costs associated with establishing an U.S. Center of Expertise relationship with GPAI/OECD.	National Science Foundation	\$1 million	-
	7 Funding for the Multilateral AI Research Initiative (MAIRI), including establishing and maintaining physical center; supporting research initiatives; created a trusted learning cloud resource; and supporting U.S. researchers' travel and involvement in workshops, conferences, and events.	National Science Foundation; Department of State; Department of Energy	\$12.15 million annually for FYs 2022-2027	\$10 million to National Science Foundation/ Department of State/ Department of Energy for research and personnel; \$2M to National Science Foundation for infrastructure; \$150,000 to National Science Foundation for administrative costs.
	8 Provide funding for trusted learning cloud to facilitate collaborative R&D with allies and partners (envisioned as a component of MAIRI).	National Science Foundation; Department of State	\$11.3 million	Funding includes underlying infrastructure, data storage and sharing capacity, grants for researchers, foreign assistance grants.
	9 Provide funding to support grants for scholars and researchers to participate in international data and technical standards efforts.	Department of State	\$5 million	-

Chapter	Recommendation	Cabinet Departments, Major Agencies, and Program Offices	Amount	Appropriations Detail
Chapter 15 – A Favorable International AI Order	10 Provide funding for immediate augmentation and training of U.S. diplomatic corps for efforts related to AI and emerging technology (funding does not include future funding needs which we recommend be determined by a focused planning effort to be undertaken by Department of State).	Department of State	\$8 million	\$550,000 - STAS; \$550,000 - Office of Communication and Information Policy; \$400,000 - Office of Science and Technology Cooperation; \$3.8 million - Regional Technology Officers (12 locations); \$1.25 million - Office of the Special Representative to Silicon Valley; \$450,000 - FSI training.
	11 Provide funding for the Bureau of Cyberspace Security and Emerging Technologies.	Department of State	\$20 million	-
	12 Provide funding for public diplomacy and engagement activities on AI innovation and democratic values.	Department of State	\$5.5 million	-
	13 Provide funding for AI exchange programs to support U.S. values and fund participation by developing countries in multilateral AI activities.	Department of State	\$8.5 million	-
	14 Provide funding for efforts to promote U.S. innovation and values and support American Spaces, Tech Camps, Maker Spaces, Speakers Program, and other initiatives.	Department of State	\$3 million	-

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	15 Provide funding for tracking and analysis of public opinion to measure impact of engagement efforts and guide strategic planning.	Department of State	\$1 million	-
	16 Provide funding for U.S. Science Envoys and Embassy Science Fellows programs.	Department of State	\$1 million	-
Chapter 15 – A Favorable International AI Order	17 Provide funding to support U.S. leadership in AI through Emerging Technology Coalition and internal programs.	Department of State: Office of the Under Secretary for Economic Growth, Energy, and the Environment (E)	\$5.5 million	Funding includes ETC support, creation of an advisory committee on emerging technology, private sector engagement, multilateral R&D efforts, tech-oriented diplomatic efforts, innovation enhancements.
	18 “Funding to support promotion of human rights and fundamental freedoms in AI context through civil society initiatives, promoting AI and emerging tech to counter censorship, and supporting research and awareness campaigns”	Department of State: Office of the Under Secretary for Civilian Security, Democracy, and Human Rights (J): Bureau of Democracy, Human Rights, and Labor (DRL)	\$1.5 million	-
	19 Provide funding to support use of AI for national security/ military applications through cooperation with allies and partners, to include joint exercises, grants, fellowships, and other activities.	“Department of State: Office of the Under Secretary of State for Arms Control and International Security (T)”	\$3 million	-

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Chapter 15 – A Favorable International AI Order	20	Provide funds to support building technical capacity in emerging democracies and market economies to counter malign influence.	Department of State	\$3 million	-
	21	Provide funds to support research grants on malign influence in AI ecosystems.	Department of State	\$2 million	-
	22	Provide funds to support public diplomacy initiatives on international AI standards and tracking and reporting of impact on public engagement.	Department of State	\$2 million	-
	23	Provide funds to support US Global Innovation through Science and Technology (GIST) Initiative.	Department of State	\$1 million	-
	24	Provide additional funding to support foreign assistance activities around emerging tech and digital infrastructure, to include planning, assessments, and provision of assistance. Funds would support targeted, digital programs in several areas, including rule of law (INL), democracy and human rights (DRL), security cooperation (AVC/PM/ISN), and technical assistance (EB, STAS, others).	Department of State	\$230 million	-

*Unless otherwise noted funding is annual beginning in Fiscal Year 2022.

**All funding figures should be considered initial estimates for consideration by Congress and the Executive Branch.