

JANUARY 24, 2023

National Artificial Intelligence Research Resource Task Force Releases Final Report

Today, the National Artificial Intelligence Research Resource (NAIRR) Task Force released its final report, a roadmap for standing up a national research infrastructure that would broaden access to the resources essential to artificial intelligence (AI) research and development.

While AI research and development (R&D) in the United States is advancing rapidly, opportunities to pursue cutting-edge AI research and new AI applications are often inaccessible to researchers beyond those at well-resourced companies, organizations, and academic institutions. A NAIRR would change that by providing AI researchers and students with significantly expanded access to computational resources, high-quality data, educational tools, and user support—fueling greater innovation and advancing AI that serves the public good.

“AI advances hold tremendous promise for tackling our hardest problems and achieving our greatest aspirations,” said **Arati Prabhakar, OSTP Director and Assistant to the President for Science and Technology**. “We will only realize this potential when many more kinds of researchers have access to the powerful capabilities that underpin AI advances.”

“Democratizing access to the cyberinfrastructure that fuels AI research and development will enable all of America’s diverse AI researchers to participate in exploring innovative ideas for advancing AI, including communities, institutions, and regions that have been traditionally underserved,” said **NSF Director Sethuraman Panchanathan**. “By creating an equitable cyberinfrastructure for cutting-edge AI that builds on-ramps for participation for a wide range of researchers and communities, the NAIRR could build AI capacity across the nation and support responsible AI research and development, thereby driving innovation and ensuring long-term U.S. competitiveness in this critical technology area.”

“OSTP’s work on AI, including the development of an updated National AI R&D Strategic Plan and the Blueprint for an AI Bill of Rights, is intended to maximize its benefits, while ensuring that AI-driven systems do not harm Americans’ rights or freedoms,” said **Deputy Assistant to the President and Principal Deputy U.S. Chief Technology Officer Alexander Macgillivray**. “We are excited about the release of the Task Force’s report

A Report To Ostp On The Contribution Of Lasers To American

**United States. Congress. House.
Committee on Ways and Means**

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Opportunities in Intense Ultrafast Lasers National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Opportunities in the Science, Applications, and Technology of Intense Ultrafast Lasers, 2018-01-31 The laser has revolutionized many areas of science and society providing bright and versatile light sources that transform the ways we investigate science and enables trillions of dollars of commerce Now a second laser revolution is underway with pulsed petawatt class lasers 1 petawatt 1 million billion watts that deliver nearly 100 times the total world's power concentrated into a pulse that lasts less than one trillionth of a second Such light sources create unique extreme laboratory conditions that can accelerate and collide intense beams of elementary particles drive nuclear reactions heat matter to conditions found in stars or even create matter out of the empty vacuum These powerful lasers came largely from U S engineering and the science and technology opportunities they enable were discussed in several previous National Academies reports Based on these advances the principal research funding agencies in Europe and Asia began in the last decade to invest heavily in new facilities that will employ these high intensity lasers for fundamental and applied science No similar programs exist in the United States Opportunities in Intense Ultrafast Lasers assesses the opportunities and recommends a path forward for possible U S investments in this area of science

Optics and Photonics National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Harnessing Light: Capitalizing on Optical Science Trends and Challenges for Future Research, 2013-03-19 Optics and photonics technologies are ubiquitous they are responsible for the displays on smart phones and computing devices optical fiber that carries the information in the internet advanced precision manufacturing enhanced defense capabilities and a plethora of medical diagnostics tools The opportunities arising from optics and photonics offer the potential for even greater societal impact in the next few decades including solar power generation and new efficient lighting that could transform the nation's energy landscape and new optical capabilities that will be essential to support the continued exponential growth of the Internet As described in the National Research Council report Optics and Photonics Essential Technologies for our Nation it is critical for the United States to take advantage of these emerging optical technologies for creating new industries and generating job growth The report assesses the current state of optical science and engineering in the United States and abroad including market trends workforce needs and the impact of photonics on the national economy It identifies the technological opportunities that have arisen from recent advances in and applications of optical science and engineering The report also calls for improved management of U S public and private research and development resources emphasizing the need for public policy that encourages adoption of a portfolio approach to investing in the wide and diverse opportunities now available within photonics Optics and Photonics Essential Technologies for our Nation is a useful overview not only for policymakers such as decision makers at relevant Federal agencies on the current

state of optics and photonics research and applications but also for individuals seeking a broad understanding of the fields of optics and photonics in many arenas

Navigating the Maze Michael S. Lubell, 2019-04-06 *Navigating the Maze* How Science and Technology Policies Shape America and the World offers a captivating deep dive into the inner workings of the world of public policy Written by prominent science advocate and renowned physics researcher and educator Michael S Lubell this valuable book provides insights and real world examples for anyone looking to understand how policy works in reality for students scientists and the public Well organized and featuring a compelling historical narrative this unique resource will enable researchers educators elected officials industrialists financial managers science lobbyists and readers in general to easily navigate the complex world of science and technology S T policy As science communication and STEM policy occupy rapidly growing areas of interest and provide important career paths this book provides invaluable insights into the public policy arena as well as lessons for effective science advocacy Presents compelling narratives about Climate Change the Internet the Human Genome the BRAIN Initiative the Manhattan Project the Science Stimulus the origin of the National Institutes of Health and the National Science Foundation and more Provides insights into the future of S T through a 225 year American policy retrospective highlighting impacts on health and medicine STEM education economic growth energy defense innovation and industrial competitiveness Illuminates the role of S T on the global stage from diplomatic engagement to military intervention and from scientific collaboration to technological competition *Factors Affecting U.S. International Competitiveness* United States. Congress. House. Committee on Ways and Means, 1992

Helping America compete : the role of federal scientific & technical information. , 1990 The United States must make better use of its scientific and technical information STI resources if it wishes to be competitive in world markets and maintain its leadership STI is an essential ingredient of the innovation process from education and research to product development and manufacturing It is a major product of the 65 billion per year the U S Government spends on research and development R researchers need ready access to STI if they are to stay at the cutting edge Many issues of our time health energy transportation and climate change require STI to understand the nature and complexities of the problem and to identify and assess possible solutions STI is important not only to scientists and engineers but to political business and other leaders who must make decisions related to science and technology and to the citizens who must live with the consequences of these decisions

Communicating Science and Engineering Data in the Information Age National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Communicating National Science Foundation Science and Engineering Information to Data Users, 2012-02-07 The National Center for Science and Engineering Statistics NCSES of the National Science Foundation NSF communicates its science and engineering S E information to data users in a very fluid environment that is undergoing modernization at a pace at which data producer dissemination practices protocols and

technologies on one hand and user demands and capabilities on the other are changing faster than the agency has been able to accommodate NCSSES asked the Committee on National Statistics and the Computer Science and Telecommunications Board of the National Research Council to form a panel to review the NCSSES communication and dissemination program that is concerned with the collection and distribution of information on science and engineering and to recommend future directions for the program Communicating Science and Engineering Data in the Information Age includes recommendations to improve NCSSES s dissemination program and improve data user engagement This report includes recommendations such as NCSSES s transition to a dissemination framework that emphasizes database management rather than data presentation and that NCSSES analyze the results of its initial online consumer survey and refine it over time The implementation of the report s recommendations should be undertaken within an overall framework that accords priority to the basic quality of the data and the fundamentals of dissemination then to significant enhancements that are achievable in the short term while laying the groundwork for other long term improvements

Oversight on OSTP United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1979

The American Lab C. Bruce Tarter,2018-08 In The American Lab former LLNL director Bruce Tarter captures the spirit of the Laboratory and its reflection of the broader world in which it thrived He identifies the major themes that have characterized science and technology in the latter half of the twentieth century the growth and decline of nuclear warheads the unprecedented rise of supercomputing technology laser systems fusion and mass spectrometry He illuminates the Cold War dynamic from the participants point of view an unusual and valuable perspective on nuclear history The story of the laboratory is a tale of three eras Although the Lab took its research vision from European Edward Teller its modus operandi came almost exclusively from namesake Ernest Lawrence and was subsequently invented in house by its scientists and staff During its first two decades the Lab s focus was almost entirely on nuclear weapons research and development with a few other smaller enterprises that were technically related to the nuclear weapons activities In the 1970s and 1980s the Laboratory along with many others in the Department of Energy complex expanded into civilian pursuits that included energy environment biology and basic science A major program in laser science and technology became a cornerstone of this period The third era was initiated by the end of the Cold War and saw the transformation of the traditional nuclear weapons activities into the stockpile stewardship program along with the rapid growth of projects that can be broadly characterized as homeland security Tarter s history memoir of the Lawrence Livermore National Laboratory provides an insider s examination of nuclear science in the Cold War and the technological shift that occurred after the fall of the Berlin Wall Provided by publisher

Public Utilities Fortnightly ,1990 **Scientific American** ,1990 Monthly magazine devoted to topics of general scientific interest

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