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MEMORANDUM

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Physical Science Memorandum November 2014

Joseph D. Martin



Physical Science Memorandum November 2014:

Force Multiplying Technologies for Logistics Support to Military Operations National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation's wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U S military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq have shown the costs of convoying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future

Space Studies Board Annual Report 2014 National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2015-04-10 The original charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress Space Studies Board Annual Report 2014 covers a message from the chair of the SSB David N Spergel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Research Council units assures the quality of the SSB reports acknowledges the

audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers

Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges National Research Council, Division on Engineering and Physical Sciences, Laboratory Assessments Board, Committee on Assessment of the Governance Structure of the NNSA National Security Laboratories, 2015-03-13

Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges is an independent assessment regarding the transition of the National Nuclear Security Administration NNSA laboratories Los Alamos National Laboratory Lawrence Livermore National Laboratory and Sandia National Laboratories to multiagency federally funded research and development centers with direct sustainment and sponsorship by multiple national security agencies This report makes recommendations for the governance of NNSA laboratories to better align with the evolving national security landscape and the laboratories increasing engagement with the other national security agencies while simultaneously encouraging the best technical solutions to national problems from the entire range of national security establishments According to this report the Department of Energy should remain the sole sponsor of the NNSA laboratories as federally funded research and development centers The NNSA laboratories will remain a critically important resource to meet U S national security needs for many decades to come The recommendations of Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges will improve the governance of the laboratories and strengthen their strategic relationship with the non DOE national security agencies

Triennial Review of the National Nanotechnology Initiative National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II, 2014-01-20

The National Nanotechnology Initiative NNI is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society As first stated in the 2004 NNI strategic plan the participating agencies intend to make progress in realizing that vision by working toward four goals Planning coordination and management of the NNI are carried out by the interagency Nanoscale Science Engineering and Technology NSET Subcommittee of the National Science and Technology Council NSTC Committee on Technology CoT with support from the National Nanotechnology Coordination Office NNCO Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003 The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI s value for basic and applied research

and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI s structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative s various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding remarks in the last chapter

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

International Intellectual Property Daniel J. Gervais, 2015-01-30 International Intellectual Property A Handbook of Contemporary Research provides researchers and practitioners of international intellectual property law with the necessary tools to understand the latest debates in this incredibly dynamic and complex

Freedom's Laboratory Audra J. Wolfe, 2018-11-15 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that

science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In *Freedom's Laboratory* Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups *Freedom's Laboratory* is the first work to explore science's link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States

The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series *The History of the Study of Landforms or the Development of Geomorphology* Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume's objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology

Cyber Law, Privacy, and Security: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-06-07 The internet is established in most households worldwide and used for entertainment purposes shopping social networking business activities banking telemedicine and more As more individuals and businesses use this essential tool to connect with each other and consumers more private data is exposed to criminals ready to exploit it for their gain Thus it is essential to continue discussions involving policies that regulate and monitor these activities and anticipate new laws that should be implemented in order to protect users *Cyber Law Privacy and Security Concepts Methodologies Tools and Applications* examines current internet and data protection laws

and their impact on user experience and cybercrime and explores the need for further policies that protect user identities data and privacy It also offers the latest methodologies and applications in the areas of digital security and threats Highlighting a range of topics such as online privacy and security hacking and online threat protection this multi volume book is ideally designed for IT specialists administrators policymakers researchers academicians and upper level students

Solid State Insurrection Joseph D. Martin, 2018-09-07 Solid state physics the study of the physical properties of solid matter was the most populous subfield of Cold War American physics Despite prolific contributions to consumer and medical technology such as the transistor and magnetic resonance imaging it garnered less professional prestige and public attention than nuclear and particle physics Solid State Insurrection argues that solid state physics was essential to securing the vast social political and financial capital Cold War physics enjoyed in the twentieth century Solid state s technological bent and its challenge to the pure science ideal many physicists cherished helped physics as a whole respond more readily to Cold War social political and economic pressures Its research kept physics economically and technologically relevant sustaining its cultural standing and policy influence long after the sheen of the Manhattan Project had faded With this book Joseph D Martin brings a new perspective to some of the most enduring questions about the role of physics in American history

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the device master record dmr is one of the holy trinity of files that developers need to collate and maintain in order to prove compliance with fda medical device regulations these files specified in fda 21 cfr part 820 181 are the design history file dhf the device history record dhr and the device master record dmr itself

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feb 10 2023 the terms dhf dmr and dhr which stand for design history file device master record and device history record

respectively have had associations with design controls for some time now but the similarity of letters in each respective name is enough to cause ongoing confusion among medical device professionals

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device master record dmr is the term used in the quality system qs regulation for all of the routine documentation required to manufacture devices that will consistently meet company requirements section 820 3 j of the qs regulation defines device master record as a compilation of records containing the procedures and specifications for a

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the mdr requires existing legacy medical devices to undergo conformity assessment to the mdr and to be ce marked anew even if they have been on the market previously under the mdd aimdd no grandfathering

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the device master record procedure prescribes the responsibilities for preparing device master records dmr and to ensure the completeness of dmr indexes indices a device master record should be prepared and maintained for all devices products manufactured or under development all equipment specifically including medical devices

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seepage a phenomenon which involves p

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