avoiding technology surprise for tomorrow's warfighter— symposium 2010

NATIONAL RESEARCH COUNCIL

Avoiding Technology Surprise For Tomorrows Warfighter Symposium 2010

United States Naval Institute

Avoiding Technology Surprise For Tomorrows Warfighter Symposium 2010:

Avoiding Technology Surprise for Tomorrow's Warfighter National Research Council,Division on Engineering and Physical Sciences,Committee for the Symposium on Avoiding Technology Surprise for Tomorrow's Warfighterâ¬"2010,2011-01-30 The Symposium on Avoiding Technology Surprise for Tomorrow s Warfighter is a forum for consumers and producers of scientific and technical intelligence to exchange perspectives on the potential sources of emerging or disruptive technologies and behaviors with the goal of improving the Department of Defense s technological warning capability This volume summarizes the key themes identified in the second and most recent symposium a two day event held in Suffolk Virginia on April 28 and 29 2010 The symposium combined presentations highlighting cutting edge technology topics with facilitated discourse among all participants Three categories of surprise were identified breakthroughs in product and process technology new uses of existing technology and the unexpectedly rapid progression of a technology to operational use The incorporation of an adversary s own culture history beliefs and value systems into analyses also emerged in discussions as an important factor in reducing surprise Avoiding Technology Surprise for Tomorrow's Warfighter National Research Council,Division on Engineering and Physical Sciences,Committee for the Symposium on Avoiding Technology Surprise for Tomorrow's Warfighterâ¬"2010,2010-12-30 The Symposium on Avoiding Technology Surprise for Tomorrow s Warfighter is a forum for consumers and producers of scientific and technical intelligence to exchange perspectives on the potential sources of emerging or disruptive technologies and behaviors with the goal of improving the Department of Defense s technological warning capability This volume summarizes the key themes identified in the second and most recent symposium a two day event held in Suffolk Virginia on April 28 and 29 2010 The symposium combined presentations highlighting cutting edge technology topics with facilitated discourse among all participants Three categories of surprise were identified breakthroughs in product and process technology new uses of existing technology and the unexpectedly rapid progression of a technology to operational use The incorporation of an adversary s own culture history beliefs and value systems into analyses also emerged in discussions as an important factor in reducing surprise **Avoiding Technology Surprise for Tomorrow's Warfighter** ,2010 **Nominations of Brig. Gen. Allison Hickey to be Under Secretary for Benefits and Steve Muro to be Under Secretary for Memorial Affairs, U.S. Department of Veterans Affairs** United States. Congress. Senate. Committee on Veterans' Affairs,2011 Avoiding Technology Surprise for Tomorrow's Warfighter National Research Council,Division on Engineering and Physical Sciences,Standing Committee on Technology Insight-Gauge, Evaluate & Review,Committee for the Symposium on Avoiding Technology Surprise for Tomorrow's Warfighter,2009-10-28 On April 29 2009 the National Research Council held a 1 day symposium titled Avoiding Technology Surprise for Tomorrow s Warfighter This volume a report of the symposium highlights key challenges confronting the scientific and technical intelligence S TI community and explores potential solutions that

might enable the S TI community to overcome those challenges The symposium captured comments and observations from representatives from combatant commands and supporting governmental organizations together with those of symposium participants in order to elucidate concepts and trends knowledge of which could be used to improve the Department of Defense s technology warning capability Topics addressed included issues stemming from globalization of science and technology challenges to U S warfighters that could result from technology surprise examples of past technological surprise and the strengths and weaknesses of current S TI analysis *Commercial Aircraft Propulsion and Energy Systems Research* National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Aeronautics and Space Engineering Board,Committee on Propulsion and Energy Systems to Reduce Commercial Aviation Carbon Emissions,2016-08-09 The primary human activities that release carbon dioxide CO2 into the atmosphere are the combustion of fossil fuels coal natural gas and oil to generate electricity the provision of energy for transportation and as a consequence of some industrial processes Although aviation CO2 emissions only make up approximately 2 0 to 2 5 percent of total global annual CO2 emissions research to reduce CO2 emissions is urgent because 1 such reductions may be legislated even as commercial air travel grows 2 because it takes new technology a long time to propagate into and through the aviation fleet and 3 because of the ongoing impact of global CO2 emissions Commercial Aircraft Propulsion and Energy Systems Research develops a national research agenda for reducing CO2 emissions from commercial aviation This report focuses on propulsion and energy technologies for reducing carbon emissions from large commercial aircraft single aisle and twin aisle aircraft that carry 100 or more passengers because such aircraft account for more than 90 percent of global emissions from commercial aircraft Moreover while smaller aircraft also emit CO2 they make only a minor contribution to global emissions and many technologies that reduce CO2 emissions for large aircraft also apply to smaller aircraft As commercial aviation continues to grow in terms of revenue passenger miles and cargo ton miles CO2 emissions are expected to increase To reduce the contribution of aviation to climate change it is essential to improve the effectiveness of ongoing efforts to reduce emissions and initiate research into new approaches **Assuring the U.S. Department of Defense a Strong Science, Technology, Engineering, and Mathematics (STEM) Workforce** National Research Council,National Academy of Engineering,Policy and Global Affairs,Board on Higher Education and Workforce,Division on Engineering and Physical Sciences,Committee on Science, Technology, Engineering, and Mathematics Workforce Needs for the U.S. Department of Defense and the U.S. Defense Industrial Base,2012-10-31 The ability of the nation s military to prevail during future conflicts and to fulfill its humanitarian and other missions depends on continued advances in the nation s technology base A workforce with robust Science Technology Engineering and Mathematics STEM capabilities is critical to sustaining U S preeminence Today however the STEM activities of the Department of Defense DOD are a small and diminishing part of the nation s overall science and engineering enterprise Assuring the U S Department of Defense a Strong Science Technology

Engineering and Mathematics STEM Workforce presents five principal recommendations for attracting retaining and managing highly qualified STEM talent within the department based on an examination of the current STEM workforce of DOD and the defense industrial base As outlined in the report DOD should focus its investments to ensure that STEM competencies in all potentially critical emerging topical areas are maintained at least at a basic level within the department and its industrial and university bases **New Statesman** ,2010-04 **Proceedings** United States Naval Institute,1993 U.S. Naval Institute Proceedings United States Naval Institute,1993 Making IT Happen Joseph N. Mait,2005 The Center for Technology and National Security Policy has investigated how the Department of Defense can enhance its engagement with the commercial market while meeting requirements for operations A chief complaint from information technology companies is that they do not know what the services need This report is a primer for commercial providers to gain some understanding of the military s thinking about military information technology and some of the programs it foresees for the future Chapter 1 focuses on the development of critical technologies required for ground tactical operations It presents the Army s efforts to enhance data and information exchange among systems of systems on the battlefield Key among these is the development of mobile ad hoc networks and applications The discussion in Chapter 2 emphasizes the technical objectives of the Navy s FORCEnet to meet its operational capabilities characterized broadly as Sea Strike Sea Shield and Sea Basing The chapter focuses on the functionalities that FORCEnet requires and the technologies needed to produce these functions Chapter 3 discusses activities in the Air Force Research Laboratory and the Air Force Battle Labs that support the Joint Battlespace Infosphere Chapter 4 provides a detailed overview of the issues and requirements necessary to insure that networking and information sharing occurs across the services This chapter characterizes the nature of the interoperability problem describes recent initiatives to ameliorate interoperability shortfalls and identifies interoperability challenges The unique problem of sharing information with allies and changing coalitions is addressed in Chapter 5 in the context of NATO operations The chapter describes NATO s efforts to move into an age of information intensive military operations with particular attention on political decision making and the command and control of distant multinational operations

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