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August 13, 2003

The Honorable Curt Weldon
Chairman
The Honorable Neil Abernethy
Ranking Member
Subcommittee on Tactical Air and Land Forces
Committee on Armed Services
House of Representatives

Subject: Issues Facing the Army's Future Combat Systems Program

In October 1999, the Army announced plans to transform into a more strategically responsive force that could more rapidly deploy and effectively operate in all types of military operations, whether small scale contingencies or major theater wars. The Future Combat Systems (FCS) program is to provide the suite of weaponry and other equipment for the transformed force. The Army plans to develop a family of 18 systems under the FCS program. Because of its size, the FCS program will dominate the Army's investment accounts over the next decade.

In July 2002, we began to review the FCS program as the program was approaching a decision on whether to start the system development and demonstration (SDD) phase—referred to as the milestone B decision. On April 18, 2003, we briefed staff of the House Committee on Armed Services on our work and provided a copy of the briefing to the staff of the Senate Armed Services Committee. We also briefed Army and DOD officials associated with the FCS program. The objectives of the briefing were to provide (1) an understanding of the content, approach, and schedule of the FCS program; (2) observations on both the positive and challenging features of the program; and (3) different approaches to proceeding with FCS that warrant consideration. The enclosure contains the briefing slides.

On May 17, 2003, the Under Secretary of Defense (Acquisition, Technology, and Logistics) approved the Army's request to begin the SDD phase for the FCS program. He directed the Army to perform a full milestone B update in November 2004 to obtain authority to continue SDD and to authorize prototype production. He also listed 14 actions items to be completed prior to the milestone update.

We believe the issues raised in our briefing remain relevant as the FCS program begins the SDD phase. Because of your committee's interest in the FCS program, we

Issues Facing The Armys Future Combat Systems Program

Andrew Feickert



Issues Facing The Army's Future Combat Systems Program:

Issues Facing the Army's Future Combat Systems Program Paul L. Francis, 2004-05-03 In Oct 1999 the U S Army announced plans to transform into a more strategically responsive force that could more rapidly deploy and effectively operate in all types of military operations whether small scale contingencies or major theater wars The Future Combat Systems FCS program is to provide the suite of weaponry and other equipment for the transformed force The Army plans to develop a family of 18 systems under the FCS program Because of its size the FCS program will dominate the Army's investment accounts over the next decade This report contains the full 2003 GAO briefing given to the staff of the U S House of Representatives Comm on Armed Services and of Army and DoD officials associated with the FCS program Charts and tables *Issues Facing the Army's Future Combat Systems Program* United States Government Accountability

Office, 2018-02-03 **Issues Facing the Army's Future Combat Systems Program** **The Army's Future Combat Systems Program and Alternatives** United States. Congressional Budget Office, 2006 **The Army's Future Combat Systems Program and Alternatives**, 2006 In today's environment of rapidly evolving conflicts the Army's goal is to have units that have the combat power of heavy units but that can be transported anywhere in the world in a matter of days To address concerns about the armored vehicle fleet's aging and the difficulties involved in transporting it as well as to equip the Army more suitably to conduct operations overseas on short notice using forces based in the United States the service created the Future Combat Systems FCS program in 2000 A major modernization effort the program is designed in part to develop and purchase vehicles to replace those now in the heavy forces the new vehicles would be much lighter thereby easing the deployment of units equipped with them In the analysis presented in this report the Congressional Budget Office CBO examined the current status of the Army's fleet of armored vehicles and assessed the speed of deployment of the service's heavy forces It also evaluated the FCS program considering the program's costs as well as its advantages and disadvantages and comparing it with several alternative plans for modernizing the Army's heavy forces **Issues Facing the Army's**

Future Combat Systems Program Paul L. Francis, 2003 **Gao-03-1010r Issues Facing the Army's Future Combat Systems Program** United States Government Accountability Office, 2017-10-19 GAO 03 1010R *Issues Facing the Army's Future Combat Systems Program* Defense Acquisitions: the Army's Future Combat Systems' Features, Risks, and Alternatives Paul L. Francis, 2008-12 To become a more responsive and dominant combat force the U S Army is changing its strategy from bigger and stronger weapons to faster and more agile ones The Future Combat Systems FCS which the Army calls the greatest technology and integration challenge ever undertaken is expected to meet the Army's transformational objectives For FCS first developmental increment the Army has set aside a 5 1 2 year timetable from program start May 2003 until the initial production decision Nov 2008 This testimony is about FCS key features whether the program carries any risks and if so whether there are alternatives for developing FCS capabilities with fewer risks Illustrations **A CBO Study,**

The Army's Future Combat Systems Program and Alternatives, August 2006, 2006 **Army's Future Combat System (FCS); Background and Issues for Congress** Andrew Feickert, 2011 This is a print on demand edition of a hard to find publication The Future Combat System FCS was a multi year multi billion dollar program at the heart of the Army's transformation efforts It was to be the Army's major R 2 Program Overview Current FCS Program Status Army's Modernization Strategy Budget Issues 3 Issues for Congress MGVCancellation Army Modernization Strategy and Spin Outs Proposed Ground Combat Vehicles Illustrations *Challenges and risks associated with the Joint Tactical Radio System program*, 2003 The Challenges Facing the Department of Defense United States. Congress. Senate. Committee on Armed Services, 2009 Defense Acquisitions Michael J. Sullivan, 2010-08 Since 2003 the Future Combat System FCS program has been the centerpiece of the Army's efforts to transition to a lighter more agile and more capable combat force In 2009 however concerns over the program's performance led to the Secretary of Defense's decision to significantly restructure and ultimately cancel the program As a result the Army has outlined a new approach to ground force modernization This report 1 outlines the Army's preliminary post FCS plans and 2 identifies the challenges and opportunities the DoD and the Army must address as they proceed with Army ground force modernization efforts The report evaluated FCS equipment and interviewed DoD and Army officials Includes recommendations Illustrations **US Future Combat & Weapon Systems Handbook Volume 1 US Army Future Combat Systems Development** IBP, Inc, 2013-08 2011 Updated Reprint Updated Annually US Future Combat Weapon Systems Handbook Research Report, 1973 *The Army's Future Combat System (FCS)* Andrew Feickert, 2007 The Future Combat System FCS was a multiyear multibillion dollar program at the heart of the Army's transformation efforts It was to be the Army's major research development and acquisition program consisting of 14 manned and unmanned systems tied together by an extensive communications and information network FCS was intended to replace current systems such as the M 1 Abrams tank and the M 2 Bradley infantry fighting vehicle The FCS program has been characterized by the Army and others as a high risk venture due to the advanced technologies involved and the challenge of networking all of the FCS subsystems together so that FCS equipped units could function as intended The FCS program exists in a dynamic national security environment which ultimately played a role in determining the program's fate Some questioned if FCS envisioned and designed prior to September 11 2001 to combat conventional land forces was relevant in current and anticipated future conflicts where counterinsurgency and stabilization operations are expected to be the norm The Army contended however that FCS was relevant throughout the entire spectrum of conflict and that a number of FCS technologies and systems were effectively used in counterinsurgency and stabilization campaigns in Iraq and Afghanistan On April 6 2009 Secretary of Defense Gates announced that he intended to significantly restructure the FCS program The Department of Defense DOD plans to accelerate the spin out of selected FCS technologies to all brigade combat teams BCTs but will recommend canceling the manned ground vehicle MGVC component of the program which was intended to field eight

separate tracked combat vehicle variants built on a common chassis that would eventually replace combat vehicles such as the M 1 Abrams tank the M 2 Bradley infantry fighting vehicle and the M 109 Paladin self propelled artillery system Secretary Gates was concerned that there were significant unanswered questions in the FCS vehicle design strategy and that despite some adjustments to the MGVs they did not adequately reflect the lessons of counterinsurgency and close quarters combat in Iraq and Afghanistan Secretary Gates also critical that the FCS program did not include a role for Mine Resistant Ambush Protected MRAP vehicles that have been used successfully in current conflicts After re evaluating requirements technology and approach DOD will re launch the Army s vehicle modernization program including a competitive bidding process Plans for transition from the FCS program to a new program where the Army intends to modernize all BCTs with remaining FCS technologies will likely be of critical congressional interest The developments of a new Ground Combat Vehicle GCV to replace the canceled MGVs could also be subject to congressional debate and oversight

Transforming Military Power since the Cold War Theo Farrell, Sten Rynning, Terry Terriff, 2013-10-17 An empirically rich account of how the West s main war fighting armies have transformed since the end of the Cold War

[The American West at Risk](#) Howard G. Wilshire, Jane E. Nielson, Richard W. Hazlett, 2008-06-05 The American West at Risk summarizes the dominant human generated environmental challenges in the 11 contiguous arid western United States America s legendary even mythical frontier When discovered by European explorers and later settlers the west boasted rich soils bountiful fisheries immense dense forests sparkling streams untapped ore deposits and oil bonanzas It now faces depletion of many of these resources and potentially serious threats to its few renewable resources The importance of this story is that preserving lands has a central role for protecting air and water quality and water supplies and all support a healthy living environment The idea that all life on earth is connected in a great chain of being and that all life is connected to the physical earth in many obvious and subtle ways is not some new age fad it is scientifically demonstrable An understanding of earth processes and the significance of their biological connections is critical in shaping societal values so that national land use policies will conserve the earth and avoid the worst impacts of natural processes These connections inevitably lead science into the murkier realms of political controversy and bureaucratic stasis Most of the chapters in The American West at Risk focus on a human land use or activity that depletes resources and degrades environmental integrity of this resource rich but tender and slow to heal western U S The activities include forest clearing for many purposes farming and grazing mining for aggregate metals and other materials energy extraction and use military training and weapons manufacturing and testing road and utility transmission corridors recreation urbanization and disposing of the wastes generated by everything that we do We focus on how our land degrading activities are connected to natural earth processes which act to accelerate and spread the damages we inflict on the land Visit www.theamericanwestatrisk.com to learn more about the book and its authors

Military Transformation United States. Government Accountability Office, 2004

Issues Facing the Army's Future Combat

Systems Program United States. General Accounting Office,2003 **Technology Development for Army Unmanned Ground Vehicles** National Research Council,Division on Engineering and Physical Sciences,Board on Army Science and Technology,Committee on Army Unmanned Ground Vehicle Technology,2003-02-01 Unmanned ground vehicles UGV are expected to play a key role in the Army s Objective Force structure These UGVs would be used for weapons platforms logistics carriers and reconnaissance surveillance and target acquisition among other things To examine aspects of the Army s UGV program assess technology readiness and identify key issues in implementing UGV systems among other questions the Deputy Assistant Secretary of the Army for Research and Technology asked the National Research Council NRC to conduct a study of UGV technologies This report discusses UGV operational requirements current development efforts and technology integration and roadmaps to the future Key recommendations are presented addressing technical content time lines and milestones for the UGV efforts

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