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Topic: C2 Technologies and Systems

Title: Integrated Battle Command: Technology to Assist Leaders in Planning and Executing
Campaigns in Complex Operational Environments

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Abstract

The Defense Advanced Research Projects Agency is developing transformational technologies to enhance the capability of military commanders and their civilian leaders to plan and conduct campaigns in a complex operational environment. Leaders must understand the operational environment, develop campaign plans that include multiple lines of effort such as security, governance, political-economic development, rule of law and employ all elements of national and international power.

The Integrated Battle Command Program is developing an integrated set of decision aids to assist leaders in planning and executing campaigns. A powerful family of interacting models, developed in the most appropriate paradigm and able to be modified by the user, describes the operational PMESII environment. The Option Exploration tool enables multiple, concurrent actions in different domains to be executed and a range of possible outcomes identified. It can be used in the development of plan as well as evaluation of courses of action. The Campaign Planning tool provides a framework to develop, visualize and manage the comprehensive campaign plan. Leaders can see the interconnections between different lines of effort, understand the impact of actions across the entire plan and assess and modify the plan based on measured performance on the ground.