



***Mission***

Provide a Modeling and Simulation Environment to Support Army Transformation and Army SMART Decisions in a Joint C4ISR Framework

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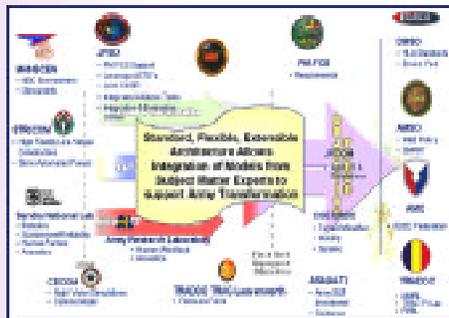
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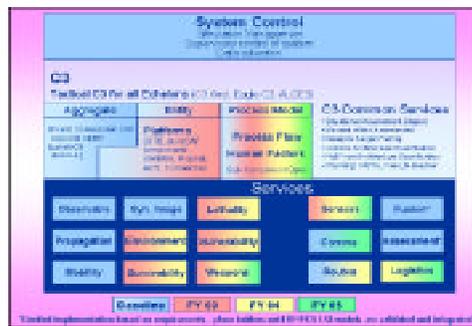
<https://peoiews.monmouth.army/jpsd/home.htm>

***JVB Team***



The Joint Precision Strike Demonstration (JPSD) Project Office, working in conjunction with numerous teammates and partners, initiated the Joint Virtual Battlespace (JVB) program to provide the Army with a Simulation-Based Acquisition (SBA) capability to support acquisition decisions for Army transformation. JVB efforts initially will focus on capabilities to explore how the Future Combat System (FCS) contributes to the total capability of the Objective Force and how the Objective Force plays in a Joint Environment. The goal of the program is to provide the Army with a set of Simulation & Modeling for Acquisition, Requirements and Training (SMART) Tools that will support full spectrum analysis of system designs and operational concepts while reducing risk and acquisition timelines.

JVB is designed to augment current Modeling & Simulation (M&S) assessment efforts and provide a cohesive architecture to support applications of SMART. JVB is a framework, not a model, designed to integrate existing models into a robust representation of Battlespace with the highest fidelity digital terrain, dynamic environmental effects, and physics-based modeling.



JVB Services Based Architecture



The JVB architecture or framework allows integrated models to pass data between themselves and share a common synthetic Battlespace. It provides a flexible, robust toolbox for evaluation of concepts, technologies, and proposals. Inserting concepts into the JVB M&S framework provides data on the operational impact of system trades, concept strengths, tactics, techniques & procedures (TTPs), and Concepts of Operation (CONOPS) from entity to Joint Task Force levels. JVB will conduct end-to-end experiments at entity level resolution. The unique JVB architecture allows scenario event impacts to one model to be observed in other models at various echelons. Just as in a real battle, the impact of the events in one location can influence the activity in another location.



The JVB approach to the critical issue of M&S support to FCS and the Objective Force makes use of the core competencies of many organizations. It brings together a world class team of M&S experts to include the Army Material Command (AMC); Research Development and Engineering Command Components; the Department of Energy (DOE) National Laboratories; the Engineer Research and Development Center (ERDC); various TRADOC organizations; Joint Forces Command (JFCOM), and Defense Modeling Simulation Office (DMSO). Several contractors provide experts and execution support for the program. JVB also works closely with the Objective Task Force, Program Manager FCS, and the Training and Doctrine Command to identify issues, requirements, and conduct experiments.



JVB Unique Capabilities