

About Booz Allen

Booz Allen Hamilton is a leading provider of management and technology consulting services to the US government in defense, intelligence, and civil markets, and to major corporations, institutions, and not-for-profit organizations. Booz Allen is headquartered in McLean, Virginia, employs more than 25,000 people, and had revenue of \$5.59 billion for the 12 months ended March 31, 2011. (NYSE: BAH)

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Mission Engineering®

For many years, traditional system and software engineering projects, whether large scale or simple and straightforward, have often been unsuccessful primarily because of a lack of user involvement, lack of visible executive management support for the program, and unclear requirements. In addition, many of these projects face one of today's most critical challenges: the transformation of traditional stove-piped applications and organizations into an integrated dynamic enterprise that includes shared and coordinated objectives, new business policies, common stakeholder vision and understanding, security constraints, business rules, and a larger community in which the enterprise must now operate.

Booz Allen Can Help You Be Ready for What's Next

Booz Allen Hamilton, a leading strategy and technology consulting firm, has wide-ranging expertise in building and leveraging interdisciplinary teams to analyze data, develop ideas and conceptual designs, and then go to development together. Systems built using traditional approaches often miss the business intent of what the user or business really needs. Mission Engineering (ME) is a Booz Allen innovation created to bridge the gap between business and engineering by addressing each dimension of a requirement from both the user and developer perspectives. ME focuses on "getting it right the first time."

Our Mission Engineering Service Offerings

ME is a requirements analysis methodology that bridges the gaps among mission, business, and technology. The focus of ME is to capture the intent of our client's mission needs through creation and analysis of comprehensive and robust data sets and associated visual products. These analytical products provide complete traceability from the client's mission need through operational, functional, and system-level requirements in support of acquisitions, systems development, and related business processes.

ME's goals are to deliver more comprehensive analysis to reduce design, development, and testing time by engaging stakeholders early and to identify technical, operational, and programmatic risks to ensure the customer's intent is achieved and business processes and systems are implemented successfully. By conducting a thorough analysis of the client's mission-based processes, systems, and operations, our analysts create an integrated and holistic view of the community, including the operations and systems that support that community. ME has three phases:

Community Analysis. Booz Allen performs a Community Analysis to fully understand the enterprise as a whole and to decompose it into its component pieces so that supporting business operations can be easily understood. This analysis identifies all internal and external stakeholders within the enterprise; what stakeholders do, how they interact, the information they exchange, and the products and services they share; the existing capabilities and technologies used; and the capabilities and technologies that need to be supported in the future.

Operations Analysis. We conduct an Operations Analysis to identify activities performed by users and stakeholders within the community that are depicted in the outputs of the community analysis phase. Working very closely with domain subject matter experts, our analysts

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delivering results that endure

document and analyze the users, processes, activities, technologies, information flows, and capabilities in use to more clearly understand the operational landscape.

Systems Analysis. Finally, we perform a Systems Analysis to provide an integrated view of the operational workflow, applications, and data required for each work activity, as identified in the operations analysis phase. During this phase, our analysts identify the activities, technical requirements, and business rules of the desired system and supporting architecture while maintaining the intent of the operational need. This analysis blends requirements and business analysis with conceptual design to illustrate how the system will satisfy the expressed operational need.

Booz Allen has applied ME successfully to support a number of initiatives, including:

- **Acquisition.** We performed analysis of mission needs to enable the creation of the operational requirements documents for the acquisition of new capabilities for a next-generation Common Operational Picture environment and related technologies.
- **Systems Engineering Life Cycle Compliance.** We validated existing system-level requirements and identified new operational requirements desired by the user community. We also created a concept of operations document and test plan and procedures in support of the major system acquisition manual and system engineering life cycle.
- **Business Process Creation and Streamlining.** We identified the process needs and rules of engagement for a newly formed entity to identify process, technology, personnel, and infrastructure opportunities for increased efficiency and effectiveness in executing the mission.
- **Transformation.** We documented, analyzed, and made recommendations to transform regional command centers with inefficient agency- and department-level integration processes into a comprehensive and robust interagency command center.

Success Stories

- **US Department of Homeland Security (DHS) Office of Operations Coordination and Planning (OPS)—Mission Blueprint.** Booz Allen used ME to deliver recommendations that provided a foundational step for improving capabilities to execute the mission of OPS. As a result, we developed a capability matrix to identify critical capabilities that OPS must perform to accomplish its mission and subsequent recommendations that have been implemented over the last 3 years.
- **Federal Emergency Management Agency (FEMA)—Integrated Public Alert and Warning System (IPAWS).** We used ME to identify the proper mix of personnel, infrastructure, transmission platforms, and technologies within FEMA. The outcome was an effective system to alert and warn the American public in times of national disasters. Strategic analysis and system requirements were also provided in support of the IPAWS program.
- **US Coast Guard (USCG)—Nationwide Automatic Identification System (NAIS).** Booz Allen used ME to validate functional requirements and standardize business processes. The outcome identified NAIS operational and technical implementation gaps and potential uses for NAIS as a service in support of Maritime Domain Awareness.
- **DHS Office of Intelligence & Analysis—Southwest Border Information Sharing Assessment.** We used ME to assess information sharing along the US Southwest Border and facilitated discussions concerning the improvement of information sharing capabilities in four areas: Leadership & Communication, Organizational Processes, Technology, and Resource Management. We also analyzed business processes, supporting systems, and architectures and recommended improvements.

Whether you're managing today's issues or looking beyond the horizon, count on us to help you be ready for what's next.