

About Booz Allen

Booz Allen Hamilton has been at the forefront of strategy and technology consulting for nearly a century. Providing a broad range of services in strategy and organization, technology, operations, and analytics, Booz Allen is committed to delivering results that endure.

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Probability of Program Success (PoPS) Acquisition Metrics Decision Support

In today's fiscally constrained marketplace, all components of the US Department of Defense (DoD) have the responsibility to make wise, analytically rigorous, and defensible acquisition decisions. Although traditional cost, schedule, and performance metrics are frequently and heavily measured by a variety of reporting systems, the DoD repeatedly sees programs develop significant problems that are not reported or predicted prior to decision reviews at senior leadership levels. A more holistic, predictive approach to measuring and monitoring program health is required to uncover program-specific and systemic issues across the entire acquisition portfolio.

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

Booz Allen Hamilton, a leading strategy and technology consulting firm, leverages our experience in developing and implementing successful decision support tools to determine the risks that organizations face from unexpected programmatic changes and devise effective mitigation strategies. Booz Allen has worked with DoD services and agencies to develop Probability of Program Success (PoPS) methods and tools to successfully assess, monitor, and report the health of programs, projects, and studies across diverse portfolios.

Booz Allen's PoPS Service Offerings

PoPS assesses the health of an acquisition decision, the likelihood of implementation, and associated impacts to capabilities by measuring a program's real ability to accomplish its objectives and effectively illustrate that status to decision makers. When implemented holistically, PoPS produces an interactive dashboard that displays a program's current "health status" and enables leadership to identify issues, determine mitigation strategies, and allocate resources accordingly across the entire portfolio.

Why Does the DoD Need PoPS?

- Programs may have requirements to periodically report against numerous metrics, but many nonetheless exhibit performance challenges missed by review and oversight authorities.
- PoPS goes a step beyond a capabilities-driven, output-focused assessment by addressing key factors that could potentially threaten program delivery.
- Standardized and automated health assessment, analysis, and reporting processes enable truer program comparisons, time and resource savings, and streamlined leadership review.

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delivering results that endure

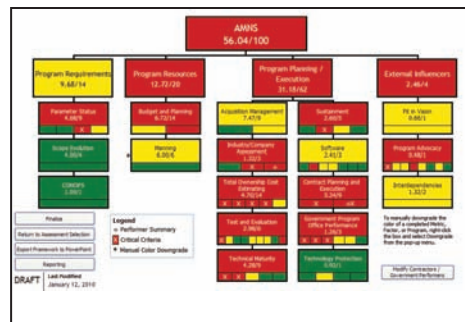
Fundamental Analytical Capabilities Using PoPS Data:

- Data Visualizations
 - Allow PEOs and PMs to better articulate strengths and issues with supporting PoPS data
 - Automatically create custom visualizations to display tailored data sets
- Data Analysis
 - Provide an interface to enhance the ability to examine known problems
 - Facilitate “what-if” analyses to make the best use of limited resources
- Data Exploration
 - Provide an interface that facilitates the review and comparison of PoPS data across programs/ portfolios
 - Enable earlier identification of problem areas to be mitigated before they become critical

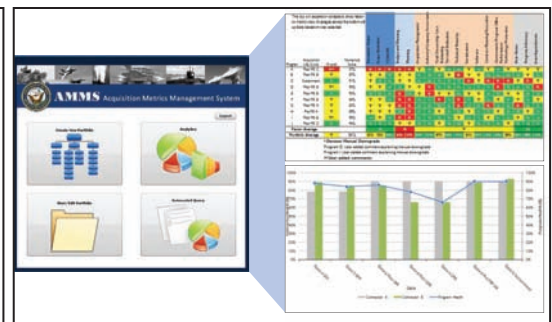
The PoPS process follows these steps:

- Develop metrics to measure key factors that impact a program’s probability of success.
- Determine a set of standardized criterion to measure each metric, and then develop the mathematical algorithms and business rules to populate the scores and colors on the dashboard.
- Create standardized templates that provide substantiating detail behind each metric health score and enable leadership to better understand issues and take corrective action.

Booz Allen’s Acquisition Metrics Management System (AMMS) then leverages PoPS data to automatically import and read health assessment XML files from the PoPS implementation tool to develop a portfolio-level PoPS dashboard with scores and colors. The tool also performs analytic capabilities, runs automated queries, creates custom metrics, and identifies trends and systemic issues across data fields. AMMS reduces the workload of analysts and decision makers by producing automated and customized analytic visuals to uncover actionable information not captured on a single PoPS chart.



PoPS Interactive Dashboard



PoPS Analytics and Reporting

Booz Allen Client Success Stories

- **Assistant Secretary of the Navy—Research, Development & Acquisition (ASN RD&A).** Since 2008, Booz Allen has supported the ASN RD&A in the development and implementation of Naval PoPS—the sole authoritative program health input for all Navy and Marine Corps acquisition programs, as signed in the October 2008 RD&A memo. Naval PoPS and AMMS are now the foundation for measuring achievement of the Secretary of the Navy’s strategic objectives and priorities.
- **Office of the Special Assistant (OSA)—Chemical and Biological Defense (CBD) and Chemical Demilitarization Programs (CDP).** Booz Allen developed a customized Capabilities-Based Portfolio Management Process (CBPfm) for the OSA (CBD&CDP). The programmatic risk element of each potential investment was assessed using Booz Allen’s application of the PoPS methodology, resulting in a defensible approach to determine the impact of program decisions and create dynamic visualizations.
- **Biometrics Identity Management Agency (BIMA).** Booz Allen assisted the BIMA in tailoring the PoPS methodology and developing an automated toolset to assess the health of science and technology projects and report results to leadership during quarterly program management reviews.

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