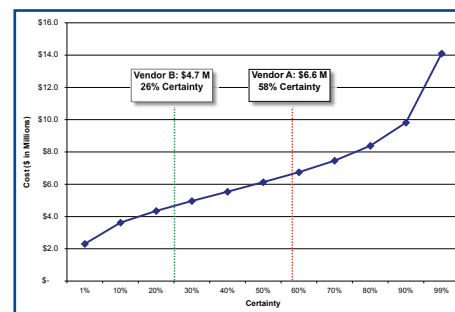
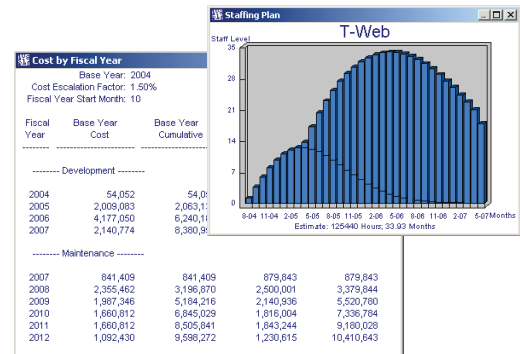


Software Cost and Schedule Estimation Capabilities

porate these factors into the estimation process. These tools also permit sensitivity analysis, identifying the key cost drivers and underscoring areas that might be crucial to the success of the project.

- Independent Software Estimation**—We can also apply our estimation methodology to help a program office understand what it should be paying for software development services.



We can independently assess “should cost” ranges to establish the reasonable cost and schedule ranges for any given development project. This assessment provides a framework for evaluating bids that come in as part of the acquisition process or assessing project progress at any point in the lifecycle. This particular approach can provide a program office with substantial information and insight to help improve the chances of a successful outcome.

Booz Allen Experience and Expertise

We have applied and refined our expertise in software cost and schedule estimation in many client engagements over the past 8 years. Some of these efforts include:

- Web-Enabled Naval Tactical Command Support System (eNTCSS) Software Audit**—We conducted an independent cost and schedule evaluation of this \$32 million software migration effort. We concluded that the initial \$12 million cost estimate was extremely optimistic, and that with improved process stability and maturity, the Space and Naval Warfare Systems Center could have developed eNTCSS for \$17–\$25 million. Booz Allen recommended more structured cost and schedule estimation processes, a more consistent means of controlling project scope, and continued pursuit of process improvement initiatives.
- FDA Center for Food Safety and Applied Nutrition Adverse Event Reporting System (CAERS)**—We conducted function point analysis of multiple increments of this software using system documentation. The resulting cost estimates were, on average, within 3 percent of project actuals, and the correlation between size and cost was 0.9977. This indicates a strong predictive relationship between function points and actual cost and also demonstrates the consistency of the function point sizing methodology over multiple software releases.
- TRANSCOM Regulating and Command and Control Evacuation System (TRAC2ES)**—We leveraged function point analysis and our estimation methodology to provide estimates and metrics for this multimillion-dollar development project for TRANSCOM. Software requirements were often high level and extremely volatile, but the methodology allowed us to effectively communicate assumptions and basis of estimates to the client.