

Division 6000 Accomplishments

Divisions 6000, 9000 | Centers 6100, 9500

Capability Portfolio Analysis Tool (CPAT)

A Sandia-developed analysis capability was one of six finalists for the 2015 Franz Edelman Prize. Over the past four years, the Capability Portfolio Analysis Tool (CPAT) has been used in more than 40 high-visibility studies to inform the Army's Program Executive Office Ground Combat Systems' fleet modernization decisions. CPAT's nomination highlights the tool's technical excellence and the impact it has had on the Army's modernization planning. CPAT analyses have helped prioritize the investment of billions of taxpayer dollars planned over the next 25-35 years.

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The combined Sandia/U.S. Army/Booz Allen Hamilton team competed for the Edelman Prize, a prestigious award for applied analytics in Operations Research.



The M1 Abrams tank is a key ground combat platform and CPAT has been used to inform its modernization strategy over the next few decades.



A soldier walks in front of a Stryker armored fighting vehicle: CPAT's analysis highlighted the benefits of investing in Stryker modernization.



The Sandia CPAT team debates the finer points of the Mixed Integer Linear Programming formulation used in CPAT.