## MAP02

## Moving the Boundary Lines - An Examination of the U.S. DoD Regional Sustainment Framework

Shweta Kumar, <u>Paul Hartman</u>, Jeffery Weir RGBSi Aerospace & Defense, Fairborn, Ohio, USA

## Abstract

Warfighting and the role of the warfighter, and even the definitions of warfighting and warfighter, have significantly changed over the last 100 years. This research examines the warfighting objectives of U.S. Department of Defense, past, near-past, and present, and the evolving role of the warfighter. Considerations are given to the size, location, and capabilities of force structures, including the sustainment of tactical and strategic operations in contested warfighting domains. A key component of the research leverages the U.S. Department of Defense 2024 Regional Sustainment Framework as a central element in a multi-nodal, interconnected matrices of sustainment dependencies. The research model evaluates risk uncertainty through the theoretical lens of survival analysis as applied using effectivity modeling via game theory. Risk allocation and risk reduction variables are applied to the model matrices, revealing strengths and potential weaknesses at the tactical and strategic levels of warfighting and the exposure of the warfighter to the negative consequences of warfighting. Modeling outputs are then provided as inputs for consideration by policy makers.

## **Conference Track**

Military Applications