Lockheed Martin To Improve Decision-Support Modeling For Commanders

The U.S. Air Force Rome Laboratory awarded Lockheed Martina $300,000, eight-month contract to develop an Integrated Modeling Manager that will improve decision-support for the Joint Force Commander and Joint Force Air Component Commander. The Air Force envisions a development environment for models analogous to the integrated development environment for software.

Commanders rely on simulation models to predict potential outcomes in the battlespace. However, current modeling tools typically are based on military modules alone and do not account for the effects of political, economical, social, information, or infrastructure elements. As a result, the models produce results that are so narrowly focused that their conclusions may be unreliable and unrealistic.

Lockheed Martin Advanced Technology Laboratories (ATL) will use a systems-of-systems approach called a "boxed set" to thoroughly combine outcomes from many modules into a more realistic and reliable result.

"A boxed set contains the total set of information, links, references, and other data from many different modules needed to execute a limited or multi-domain simulation for a specific purpose," said Guru Prasad, principal investigator Lockheed Martin ATL. "Boxed sets significantly improve productivity, reuse, and collaboration of simulations."

The collection of boxed sets, or capabilities, enables the decision-support system to easily extend and efficiently target different scenarios or regions of interest.

Lockheed Martin ATL leads a team that includes Argonne National Laboratory and WindChill Parametric Technology Corporation.

Headquartered in Bethesda, Md., Lockheed Martin employs about 135,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

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