Lockheed Martin To Develop Early Warning System That Predicts Crisis Events And Stability Of Countries

The Defense Advanced Research Projects Agency (DARPA) awarded Lockheed Martina $1.3-million, 15-month, Phase-I program to develop the Predicting Stability through Analyzing Germane Events (PRESAGE) system -- an element of DARPA's Integrated Crises Early Warning System (ICEWS) program.

ICEWS will let military commanders anticipate and respond to worldwide political crises and predict events of interest (EoIs) and stability of countries of interest with greater than 80 percent accuracy. Using national resources across Diplomatic, Information, Military, and Economic sources, ICEWS will provide combinations of strategies, tactics, and resources to mitigate predicted instabilities with the greatest positive impact.

"For ICEWS, Lockheed Martin's PRESAGE will combine a portfolio of state- of-the-art and operationally deployed social science models and technologies to predict EoIs and general stability indicators," said Mark Hoffman, Lockheed Martin Advanced Technology Laboratories (ATL). "Being able to predict events with reasonable accuracy is the first step in constructing a decision-support system to aid in region stabilization."

Hoffman also said that PRESAGE will predict various types of events across the Political, Military, Economic, Social, Infrastructure, and Information spectrum for specific geographic areas and within specific time frames. Typical events may include rebellions, insurgencies, ethnic/religious violence, civil war, and major economic crises.

ICEWS is a multi-phase program. Phase I will build, integrate, test, and evaluate social science models to forecast EoIs and predict country instability. Later phases will develop analytical and technical foundations to provide decision support to unified commanders. If successful, then the system will deploy in-theater where commanders will test its ability to fulfill stability objectives in a dynamic, resource-constrained environment.

Lockheed Martin ATL leads a team that includes the University of Pennsylvania, University of Kansas, University of Washington, University of Georgia, Innovative Decisions, Inc., Evidence Based Research, Interactive Data Visualization, and Argonne National Laboratory.

Headquartered in Bethesda, Md., Lockheed Martin employs about 140,000 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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