



# Modeling, Simulation, and Training



ICF International advances the art and science of MS&T

## Selected Capabilities

- Disaster preparedness
- Anti-terrorist training
- Homeland defense
- Energy Infrastructure
- Logistical planning

## Selected Clients

- USAF Space Command (AFSPC)
- USAF Advanced Maintenance and Munitions Officers School (AMMOS)
- Air Force Agency for Modeling and Simulation (AFAMS)

Military leaders are facing tough decisions – to train, equip and/or modernize their forces to meet daily missions; prepare to employ new weapons systems and technologies that will dominate battlefields in the decades that lie ahead. Civilian leaders are facing similar decisions especially with regard to defending the homeland and preparing to respond to disasters and terrorist acts. These leaders have many of the same goals – to train personnel, to exercise responses, and to deploy the most effective equipment and tools. To achieve these objectives, processes and procedures must become exponentially more efficient. Innovative ideas must be applied to all solutions – ideas that push the boundaries of technology; ideas that integrate innovations with long held processes to create unimaginably more efficient new results. These new processes and ways of doing business, fed by innovation, will become the cornerstone upon which these leaders will base the pace and depth of modernization and training.

Modeling, simulation and training (MS&T) technology will lead this innovation and have become essential tools in achieving these goals. This technology has never been more important to policy makers and agency leadership. The House of Representatives cited the following in the recently passed H.R. 1585, National Defense Authorization Act for Fiscal Year 2008: "... (1) Modeling, Analysis, and Simulation Technology have become an essential component in ensuring that we meet the defense challenges of the 21st century ..." This proclamation applies equally to all segments of our National infrastructure.

Traditionally, each agency has designed and implemented its own modeling and simulation analysis. In the future, inter-agency projects in this arena will play an increasingly important role, as the Nation adapts to changing global threats and restricted budgets.

## Our Approach

ICF International advances the art and science of MS&T through innovative decision support applications and applied research. Alone or with its strategic partners, ICF develops and/or integrates modeling and simulation technology to create end-to-end solutions for our clients.

We are recognized by the defense community as a leader in devising ground-breaking solutions to client problems, and our innovative analyses and applications are solving real customer problems and providing unique insight to critical decision-makers right now.

ICF develops and operates modeling and simulation systems that perform a wide range of analysis, including those supporting mission planning, logistics support and operation of the virtual battlefield. We translate client furnished training objectives into requirements for immersive live, virtual and constructive learning systems (serious games and interactive simulations). To provide a total solution (one stop) consistent with client needs, we develop training and mission rehearsal scenarios, build serious game databases, and assemble and integrate the simulation suite. We provide qualified instructors for training facilitation and mentoring, in addition to staff to perform data capture and analysis. Finally, we meticulously document the outcomes and present a comprehensive, action-oriented report that outlines the results of the event and our analysis-based recommendations.

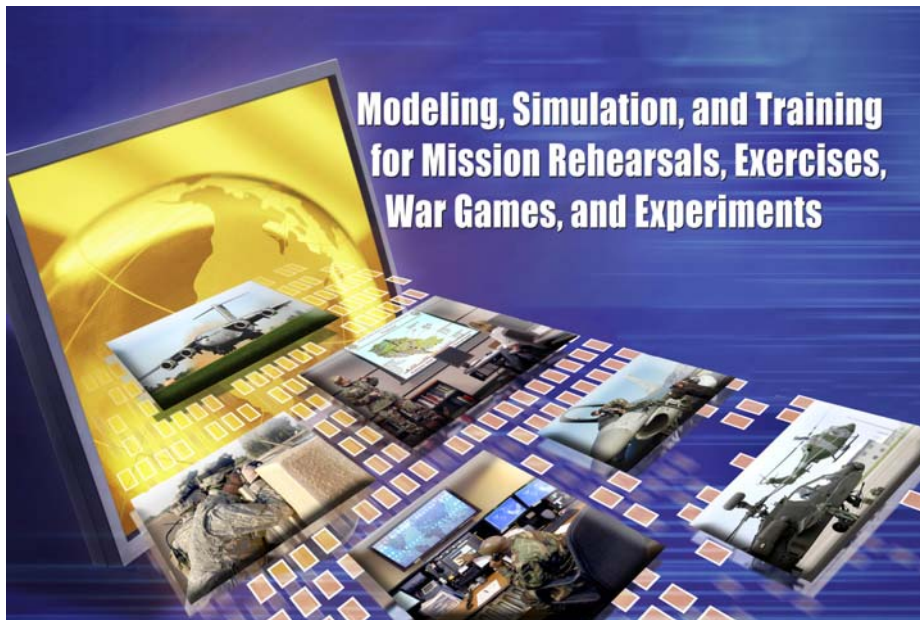
**Passion. Expertise. Results.**

## Featured Solutions

ICF provides the Air Force Studies and Analysis Agency with comprehensive modeling, simulation, and analysis support for space, intelligence, surveillance, and reconnaissance; combat identification; air superiority; information operations; command and control; and theater air defense studies. We also provide comprehensive development and management support models, software and hardware, experiments and evaluation.

ICF has provided the Air Force's CHECKMATE Division with a complete technical analysis team for more than 10 years. Our analysts design and execute end-to-end solutions for air campaign planning, including operating models, databases, commercial software and applications program.

ICF provided the Air Force Air Mobility Command with analytical and functional support to analyze the air mobility aspects of Operation Enduring Freedom (OEF). ICF generated analytical goals, data, analysis, and reports.



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## About ICF International

ICF International (NASDAQ: ICFI) partners with government and commercial clients to deliver consulting services and technology solutions in the energy, climate change, environment, transportation, social programs, health, defense, and emergency management markets. The firm combines passion for its work with industry expertise and innovative analytics to produce compelling results throughout the entire program life cycle, from analysis and design through implementation and improvement. Since 1969, ICF has been serving government at all levels, major corporations, and multilateral institutions. More than 2,500 employees serve these clients worldwide. ICF's Web site is [www.icfi.com](http://www.icfi.com).

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