



## Real-Time Adversarial Intelligence and Decision Making (RAID)

The Real-Time Adversarial Intelligence and Decision-Making (RAID) program focuses on the challenge of anticipating enemy actions in urban operations. In a number of publications, U.S. military leaders have called for the development of techniques and tools to address this critical challenge.

With the support of Science Applications International Corporation (SAIC), the RAID program has developed key technologies and tools capable of producing in-execution running estimates and analysis of an enemy's probable actions. A particular focus of the program is tactical urban operations against irregular combatants — an especially challenging and operationally relevant domain.

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### Capabilities

- **Adversarial reasoning:**  
The use of gametheoretic and cognitive model approaches to generate anticipations
- **Deception reasoning:**  
Deception robust estimation techniques to detect enemy deceptions

The program leverages novel approximate gametheoretic and deception-sensitive algorithms to provide real-time enemy estimates to the tactical commander. In doing so, RAID has addressed two critical technical challenges:

- **Adversarial reasoning:** the ability to continuously identify and update predictions of likely enemy actions
- **Deception reasoning:** the ability to continuously detect likely deceptions in the available battlefield information

RAID also produces improvised explosive device (IED) threat regions and complex ambush estimates.

Realistic experimentation and evaluation drove the development process using human-in-the-loop, OneSAF®-based wargames to compare the decision-making of humans aided and unaided by RAID. The products of the program are transitioning to the Army Distributed Common Ground System-Army (DCGS-A) program.



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