



INFORMATION AWARENESS OFFICE

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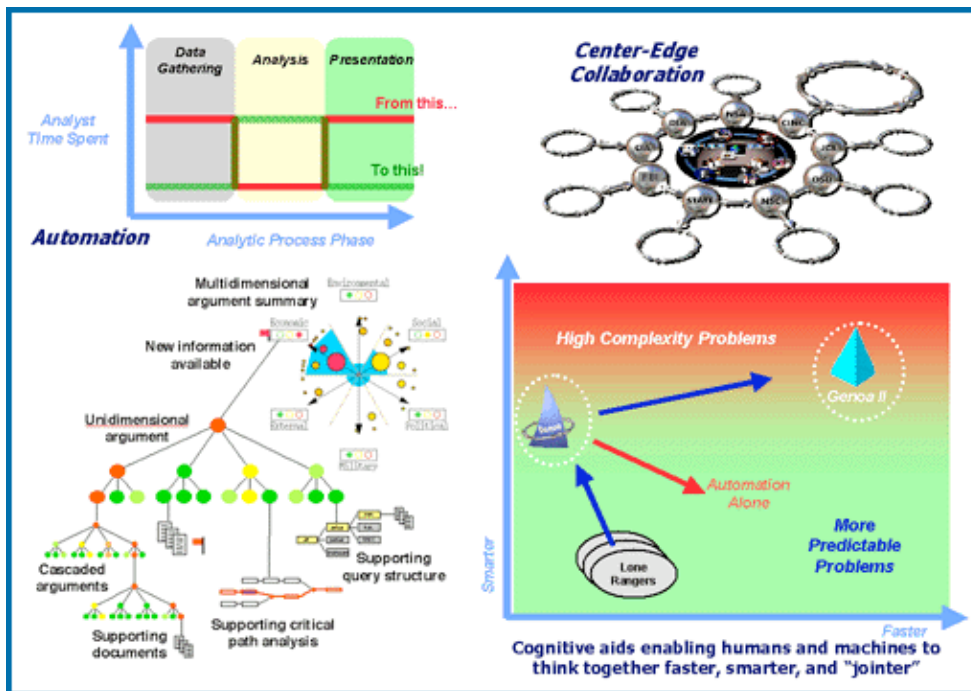
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Genoa II

Program Manager: Mr. Thomas Armour



Program Objective:

Genoa II is a FY02 new-start program. It will focus on developing information technology needed by teams of intelligence analysts and operations and policy personnel in attempting to anticipate and preempt terrorist threats to US interests. Genoa II's goal is to make such teams faster, smarter, and more joint in their day-to-day operations. Genoa II will apply automation to team processes so that more information will be exploited, more hypotheses created and examined, more models built and populated with evidence, and in the larger sense, more crises dealt with simultaneously.

Program Strategy:

Genoa II will develop and deploy: 1) cognitive aids that allow humans and machines to "think together" in real-time about complicated problems; 2) means to overcome the biases and limitations of the human cognitive system; 3) "cognitive amplifiers" that help teams of people rapidly and fully comprehend complicated and uncertain situations; and, 4) the means to rapidly and seamlessly cut across – and complement – existing stove-piped hierarchical organizational structures by creating dynamic, adaptable, peer-to-peer collaborative networks.

Planned Accomplishments:

FY02/ FY03: Design faster systems of humans and machines by assimilating new information technologies to operational agencies to meet asymmetric threats.

FY02/ FY03: Develop tools for cognitive amplification by extending the ability of software to model current states, estimate plausible futures, support formal risk analysis, and provide for automated option planning. Supporting technology includes the use of intelligent agents, cognitive machine intelligence, associative memory, neural networks, pattern matching, Bayesian inference networks, and biologically inspired algorithms.

FY02/ FY03: Develop tools for cross-agency collaboration designed to operate across existing hierarchical organizations while maintaining control and accountability. Areas under consideration will include: KM; corporate memory; context-driven, declarative-policy enforcement; self-aware data; business rules; self-governance; and automated planning.

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