



SIMULATION SOFTWARE TO INFORM STRATEGIC DECISIONS

**Model and Simulate
the Battlefield**

FLEXIBLE MODELING ENVIRONMENT

GCAM is an agile and powerful tool suite for building custom applications.

GCAM's flexibility enables system-level interactions across trades, accounting for real-world uncertainties.

CUSTOMIZED APPLICATIONS

- Operations Analysis
- Campaign Analysis
- Force Structure Analysis
- Concept of Operations Development
- Theater-level Logistics
- Critical Asset Security Assessments

DECISION ANALYSIS

GCAM provides objective analysis to support critical decisions.

- Risk Assessments
- Analysis of Alternatives
- Force Structure Analysis
- Wargaming
- Impact of Technology Investments
- CONOP and TTP

PROVEN, LONG-TERM SUCCESS

- US Navy, Strategic Systems Programs
- US Navy, Surface Warfare (N96)
- US Navy, Chief of Naval Operations
- United States Marine Corps
- Office of the Secretary of Defense
- US Air Force
- US Coast Guard
- Defense Advanced Research Projects Agency
- Royal Australian Navy



GCAM MODELS MATCH CLIENTS' ANALYTIC NEEDS

Force Structure Analysis to support the annual **Program Objective Memorandum** budgetary cycle.

Military Utility Assessments to inform **investment and procurement strategies** for emerging technologies.

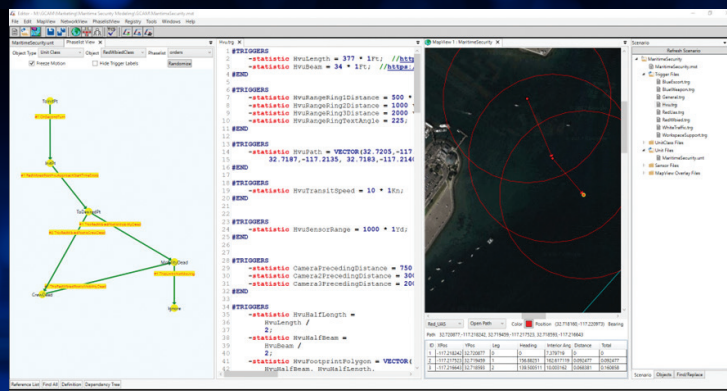
Analyses of Alternatives to inform DoD leadership of **campaign-level impacts** of integrating future platforms and capabilities.



GCAM MODELS DELIVER QUANTITATIVE ANALYSIS TO SUPPORT DECISIONS

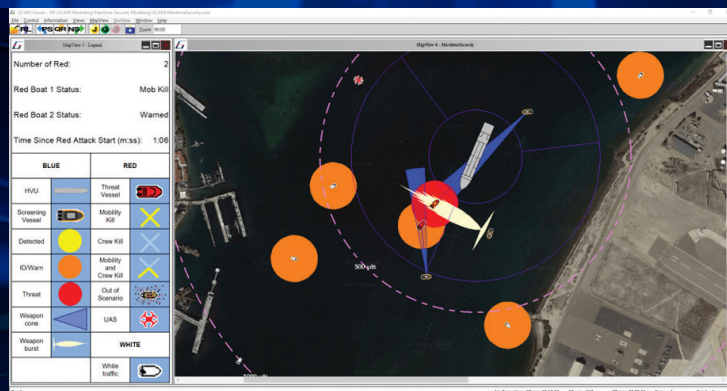
BUILD

- Robust simulation language
- Editor application with numerous helper tools to expediate model building
- Profiler tools to help optimize run-time



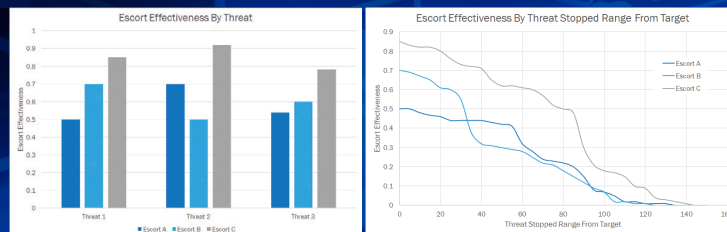
SIMULATE

- Map views with unit interactions
- Tailor run-time displays, metrics, and graphs
- Link to external data
- Easily examine model values or events at run-time



ANALYZE

- Customizable output to match analytic needs
- Playback videos for client review
- Parametric studies: register parameters, create run matrix, and run batch launcher



Pre-analyze courses of action to inform wargaming priorities. Afterwards, further analyze quantitative evidence for COA selection.

Assess risk to **characterize emerging threats** and develop focus areas to counter these threats.

Develop **tactical-level models** to assess System Performance against targets in multiple environments.

◆ Decision Support for National Security

Systems Planning & Analysis (SPA) delivers data-driven analytical insight and engineering expertise that advance national security priorities. With more than 50 years of experience, SPA's differentiated capabilities and mission engineering tools drive outcomes across the most complex defense and security challenges.



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