

How can ECBC's Modeling & Analysis Capabilities help you?

Decision problems have multiple competing components — including benefit, performance, cost, and schedule. ECBC's Modeling & Analysis Capabilities provide specialized and integrated solutions. For example, the

Modeling, Simulation & Analysis Team

can develop/provide physical science-based and empirical models that generate simulated component/system performance data for input to a multi-criteria decision model developed by the

Decision Analysis Team.

The resulting benefits for each alternative can be weighed against the cost as developed/validated by the

Cost Analysis Team.

The process is efficient, and the results are defensible.

If you are:

- Researchers,
- Program or Project Managers,
- Requirements Generation Agencies,
- Operational Commanders or Agencies,

Then you could benefit from the combined modeling, cost and decision analysis capabilities at ECBC.

Contact any team for more details!

Modeling, Simulation & Analysis Team

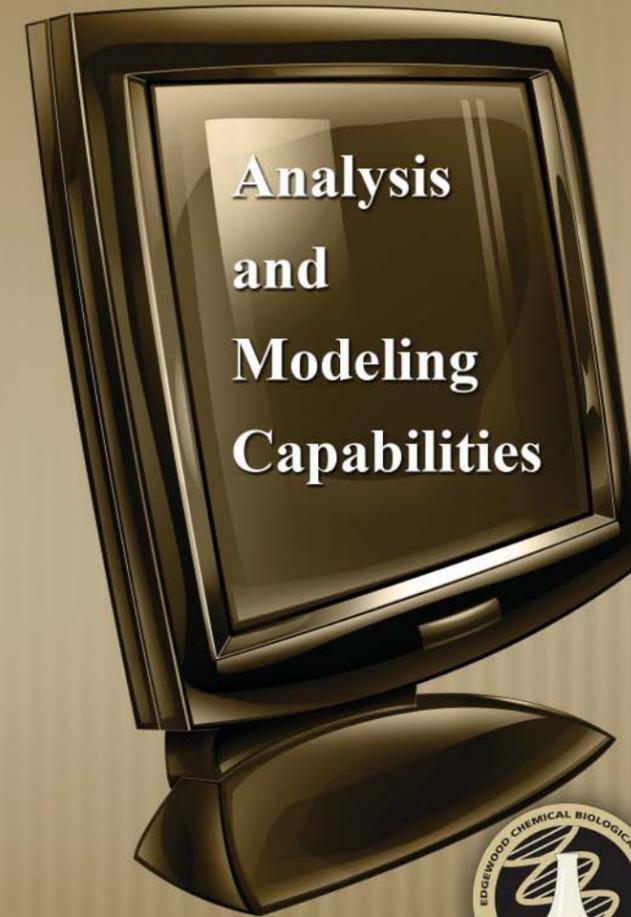
ECBC Research and Technology
E5951 Room 214E
Phone: 410-436-5408 [DSN 584]
Fax: 410-436-2165
E-mail: ecbc.msa@apega.army.mil

Cost Analysis Team

ECBC Technical Director's Office
E3332 Second Floor
Phone: 410-436-5041 [DSN 584]
Fax: 410-436-5037
E-mail: ecbc.cat@apega.army.mil

Decision Analysis Team

ECBC Directorate of Program Integration
E3331 Room 123
Phone: 410-436-3569 [DSN 584]
Fax: 410-436-4984
E-mail: ecbc.dat@apega.army.mil



**Edgewood Chemical
Biological Center**

Modeling, Simulation & Analysis

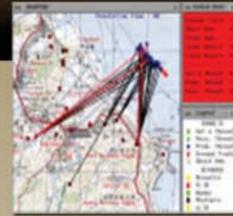
Cost Analysis

Decision Analysis

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.



Modeling, Simulation & Analysis



Our mission is to:

- Provide decision makers with quantitative/qualitative assessments of the military worth (utility) provided by CBRN operational concepts and materiel.
- Provide focused assessments using a range of tools/techniques to include stand-alone and distributed simulations.

We support:

- CBRN concept and materiel evaluations in a realistic operational synthetic environment
- Sophisticated experimental design and data analysis for a variety of research and test and evaluation (T&E) applications

Our Team: Has backgrounds in operations research, chemistry, engineering, physics, statistics and mathematics.



Decision Analysis



Our mission is to:

- Develop a tailored, logical, structured analytic methodology to assess complex CB Defense problems and produce effective decisions.
- Focus on the issue, not the symptoms, and only on the factors needed to make a decision.
- Provide experienced, unbiased process facilitation, while documenting process rationale.
- Efficiently produce defensible results.

We support:

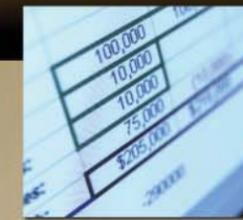
- Multi-Criteria Decision Making (e.g., source selection, trade-off analysis)
- Resource Allocation or Budget Planning
- Uncertainty Analysis
- Risk Assessment
- Strategic Planning and Change Management
- Process or Value Simulation

Our Team:

Has backgrounds in operations research, industrial engineering, biology, and chemistry.



Cost Analysis



Our mission is to:

- Ensure consistency and validity of cost estimates and economic analyses.

We support:

- Program Office/Life Cycle Cost Estimates
- Business Case Analyses
- Independent Government Estimates
- O&S Cost Reduction Proposals
- Test Support Agreements
- Earned Value Management
- Source Selection Evaluation Boards
- Cost as an Independent Variable
- Contracted Advisory & Assistance Services
- Other Cost Studies

Our Team:

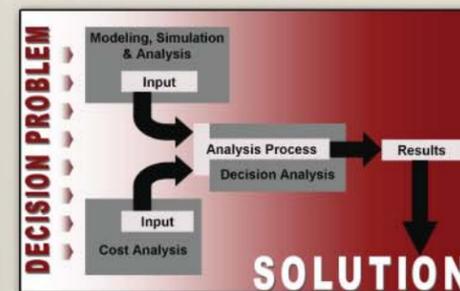
Has backgrounds in economics, operations research, chemistry, engineering, physics, and acquisition.



Combined Capabilities

Combined Mission:

Provide integrated analysis capabilities for every aspect of the acquisition process to support defensible, well-informed decisions.



Complex problems involve:

- Choosing among alternatives
- Improving processes
- Predicting performance

Decision-makers need structured processes and appropriate tools to analyze problems and identify solutions.