



## Modeling and Simulation

### *Make Complex Decisions Faster, Easier, and with Greater Confidence*

A detailed understanding of all relevant information is critical to any successful decision process. Gaining that detailed understanding is an increasingly difficult challenge. Managers and senior analysts must assess a variety of data from multiple sources to assist them with:

- ◆ Evaluating alternatives and options for engineering or business solutions;
- ◆ Assessing complex sets of parameters that affect your decisions;
- ◆ Analyzing cost efficiency before committing the funds;
- ◆ Gauging the effectiveness of existing or planned operations;
- ◆ Assessing organizational effectiveness; and
- ◆ Enhancing staff training and awareness.

Valador, Inc. can help you create powerful Modeling & Simulation (M&S) solutions for decision support, particularly when the decisions involve highly complex information architectures. Our solutions use real-world data to simulate the issues at hand, providing state-of-the-art features to facilitate decision-making:

- ◆ **Immersive 3D representations**, facilitating better understanding of the operational context of your data;
- ◆ **Database-driven**, responding to simulation data in near real-time, facilitating “what-if” analysis;
- ◆ **Collaborative**, enabling remote users to interact via the Internet, collaborating over simulation results.



*Valador's innovations in M&S are a direct result of our research and development investment in state-of-the-art M&S technologies, such as our use of commercial gaming technology for enhanced visualization and collaboration.*

**Valador, Inc.**, is an award-winning, Certified Service-Disabled Veteran-Owned Small Business that develops discrete event, Monte Carlo, and continuous process models using the latest tools including Satellite Tool Kit™, MatLab™, and Extend™; and we couple these with advanced systems programmed using Maya™, Java, C++, Visual Basic™, PHP, MySQL, and Torque Script.

## Support For A Variety Of Applications

A growing list of federal agencies, including NASA and DoD, have turned to Valador to provide specialized M&S services and solutions in areas such as Space Technologies, Information Assurance, and Program/Project Management. Some of the types of applications we have tackled include:

### Operations Effectiveness

- ◆ Major supply chain elements ;
- ◆ Facilities and Infrastructure;
- ◆ Organization and staff skill mix;
- ◆ Processes; and
- ◆ Safety and Reliability.

### Operations Effectiveness

- ◆ Planned organization and operation;
- ◆ Existing operations, including options for automation; and
- ◆ Program closure alternatives.

### Valador Computer Emergency Response Team Model (VCERTM™)

- ◆ Assess cost and effectiveness of hours of operation, workstation configuration, staffing mix, standard operating procedures, etc;
- ◆ Measure effectiveness of the CERT to respond to evolving risks; and
- ◆ Link CERT costs to CERT performance.

### NASA's Distributed Observer Network (DON)

- ◆ Multiple NASA analysts across the country can view simulation results from their desks via LAN, WAN, or Internet;
- ◆ Each user can view a simulation from his/her own perspective;
- ◆ Developers can rapidly import models from CAD programs and other simulators; and
- ◆ The solution can import telemetry streams for near-real-time visualization.

*Let Valador show you how our M&S-based solutions  
can ease your decision-making process.*



### Contract Vehicles

GSA FSS MOBIS: GS-10F-0182N

GSA FSS Group 70 IT: GS-35F-0223M

NASA OCE PA&E BPA: NNH06CC09Z

FAA eFAST MOA: DTFAWA10A-00107

USDA FSIS PMO Support BPA: AG-3A94-B-09-0013

PEO STRI BPA: GS04T06DBA0207

DHS EAGLE: (Sub to General Dynamics)

GSA VETS: (sub to HMS Technologies and NAID)

DISA ENCORE II: (Sub to AnviComm)

HHS COOP/DR BPA: (Sub to HMS Technologies)

EPA ORD PPMSS BPA: (Sub to BearingPoint)

FBI STB BPA: (Sub to TrueStone)

SeaPort-e: (sub to FEI and ITT)

### NAICS Codes

541330, 541511, 541512, 541513, 541519, 541712



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