



3D Immersive Environments

Facilitating a better understanding of the operational context of your data

Over the past decade, Valador has delivered numerous models for spacecraft scenarios, training programs, and other applications. Valador's 3D Immersive environments help deliver information in an engaging, comprehensive, efficient manner. Utilizing Valador's 3D immersive environments can provide you:

- ◆ A collaborative environment that fosters real time communication
- ◆ Assistance in decision-making processes
- ◆ Virtualized scenarios based upon real world data
- ◆ Interactive training programs
- ◆ Enhanced visualization utilizing the latest gaming technology

Collaborative Environment Fostering Communications

Coordinating communications on a particular project or task might be difficult especially when workforce is dispersed in various locations. Obtaining the needed information from all the responsible parties might be an arduous tasks. Valador can provide you a solution by creating a 3D Immersive environment that will aid you in your collaboration efforts and foster your lines of communication and information more effectively.

- ◆ Information and data can be stored and shared with other users
- ◆ A multi-user system can be implemented so that hundreds of users can connect from any location
- ◆ Voice over Internet Protocol (VoIP)
- ◆ Text chat functionality
- ◆ Web-based features in the environment

Assistance in Decision-making Processes

A detailed understanding of all relevant information is critical to any successful decision-making process. Gaining that detailed understanding is an increasingly difficult challenge. By implementing a 3D Immersive environment, instructors, students, and corporate shareholders can assess a variety of data from multiple sources to assist them with:

- ◆ Evaluating alternatives and options effectively and efficiently
- ◆ Developing quicker responses and action plans by being exposed to "what-if" scenarios
- ◆ Assessing effectiveness of existing and planned operations

Simulated Scenarios Utilizing Real World Data

Valador, using its state-of-the-art suite of tools, modeling techniques, and acquired expertise, creates simulated scenarios based upon real world data. These virtual simulations:

- ◆ Provide scenarios that factor in a wide array of variables
- ◆ Are used as a substitute when it is prohibitively expensive or simply too dangerous to allow trainees to use the real equipment in the real world
- ◆ Provide situational awareness
- ◆ Enable users to visually experience the information rather than viewing it in numerical and tabular representations

Enhances Visualization by Utilizing the Gaming Technology

Valador's innovations in M&S are a direct result of our research and development investment in state-of-the-art M&S technologies. One of our major investments is the use of commercial gaming technology for enhanced visualization and collaboration. Game engines:

- ◆ Provide real time collaboration capabilities
- ◆ Distributed processing
- ◆ That are already built, allowing the focus to be placed on implementing custom tools and features

Valador's VIVE® service takes M&S beyond 2-dimensional data to 3-D representation of real world objects. We used this service to develop NASA's Distributed Observer Network (DON), enabling NASA engineers and analysts worldwide to collaborate over simulation results. Using modern game engine technology, we enhance the visualization of the results of the models and simulations, providing solutions that are:

- ◆ Immersive 3D representations – facilitating better understanding of the operational context of our models and simulations;
- ◆ Database-driven-responding to simulation inputs in near real-time; and
- ◆ Collaborative- enabling remote users to interact while viewing the models via the Internet



Interactive Training Programs

Captivating today's audience can be challenging. Interactive training programs help you retain the attention of this new generation of students. 3D immersive environments enhance your interactive training programs by:

- ◆ Increasing retention rate and content absorption
- ◆ Provide a higher level of flexibility and adaptability to the students
- ◆ Giving a higher return on investment (ROI) and be the better value once it is implemented



Contract Vehicles

GSA Alliant 2 Small Business: 47QTCH18D0146
GSA VETS 2: 47QTCH18D0064
GSA FSS MOBIS: GS-10F-0182N
GSA FSS Group 70 IT: GS-35F-135AA
FAA eFAST MOA: DTFAWA10A-00107
SeaPort-e: N00178-10-D6379
USDA FSIS BPA: AG-3A94-B-09-0013
USAID: AID-OAA-C-15-00097
VA T4 IDIQ (Subcontract)
VA T4NG IDIQ (Subcontract)
IRS TIPSS 4 Small Business-MBOSS (Subcontract)
DHS EAGLE II (Subcontract)
DISA ENCORE II (Subcontract)
HHS COOP/DR BPA (Subcontract)
NETCENTS - 2 (Subcontract)

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Let Valador show you how our 3D Immersive environments can help you visualize your information.



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