



CAPABILITY STATEMENT: Modeling, Simulation and Analysis

Solid Experience

TSI, a division of Bush Enterprises, is a Small Business Administration 8(a) Certified company that focuses on the development of innovative solutions in *Modeling Simulation and Analysis* to address engineering and technical problems in governmental, commercial and academic clients. We help clients address their toughest problems with analytical approaches, customized tools, data sets, and simulation models that are specifically crafted to create, analyze, and test strategies and decisions. This support enables our clients to make critical tactical and strategic decisions that are supported by auditable and factual data (qualitative and quantitative) that integrates science and technology with human systems

Modeling Simulation & Analysis

Modeling of Complex Systems



TSI team has experience in the developing applied and research based models and simulations. The team also has broad experience in analysis of complex systems and development of applications software products. Current and

previous projects include: 1. Disaster Management Simulation Systems for the US Army Corp of Engineers; Sim Series is a collection of unique Modeling and Simulation tools to support training and mitigation in disaster management. The tool simulates six types of disasters that affect United States including hurricanes, pandemics and floods. SimSeries integrates information from different models during the occurrence of a disaster, to provide a simulation that can be used to support mitigation, training, preparation and decision making. 2. Development of a data analysis, modeling and visualization system



to track project activities, communicate project status and serve as a real-time information repository. This project will support programs within the National Science Foundation.

requirements. TSI has extensive experience in the development and maintenance of its own models and simulations using a variety of programming languages

TSI has a highly responsive team of modelers and developers that model difficult systems, create unique simulations and integrate complex systems to meet customer requirements. The TSI team has over twenty years of experience in Modeling, Simulation and Analysis and our corporation has been providing technical services to government customers since 2000.



Simulation

TSI simulation capability includes discrete event simulation, training simulation development and working as members of integrated teams to develop large

military simulations. TSI team members work on projects such as the US Army, One Semi Automated Force (OneSAF) training simulation development; OneSAF is a simulation that supports the next generation combat generated force (CGF). OneSAF represents a full range of operations, systems, and control process from individual combatant and platform to battalion level. In addition to supporting OneSAF, the TSI team was a part of the US Army OneTESS Program. OneTESS is a complex software development project designed to take the many current simulation systems and place them in a common architectural framework.

Analysis

TSI key personnel average more than twenty years of government contracting experience in training task analysis, front end analysis, data analysis, data mining and instructional system design. Premier applications in this area include: 1. Develop or revise the instructional program for UH-1Y (Huey) and AH-1Z (Cobra), which is ongoing project with NAVAIR. 2. Perform data analysis for the National Science Foundation on select structured and unstructured data sources using traditional analysis tools and content analysis methods.

Customers

Federal Aviation Administration (FAA)
Naval Air Warfare Center Training Systems Division
(NAWCTSD)
US Army Corps of Engineers (USACE)
Army Research Laboratory (ARL)

National Science Foundation (NSF)
National Aeronautics and Space Administration (NASA)
The Boeing Company
Raytheon
US Army PEO-STRI

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