# Emergency Management ✶ Exercise System

The Emergency Management Exercise System (EM✶ES) offers a full command and control system capable of blurring the line between training and operations. EM✶ES provides a common operational picture for emergency management personnel thereby facilitating a higher state of situational awareness for users. EM✶ES includes all of the necessary tools for making decisions in complex situations, including a full GIS-based mapping system and various tools for communication, information sharing and resource management.

EM✶ES features a scenario-driven simulation-supported exercise environment that offers great flexibility with respect to the target training audience and types of incidents introduced within a scenario. EM✶ES is flexible and has been used to support large-scale distributed exercises, classroom-based instruction, and table tops. EM✶ES has been used to train both civilian and military personnel, with exercises at the Incident Command Post, Emergency Operations Center, Multi-Agency Coordination Center, state and international levels.

CREATING "VIRTUAL VETERANS" OF LARGE-SCALE DISASTERS,
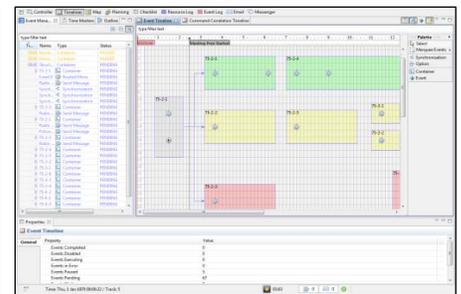
BOTH NATURAL AND HUMAN INITIATED

EM✶ES has been used to train over 6,000 emergency managers from across the United States.
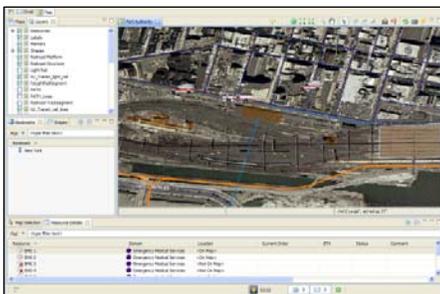
Common Operating Picture
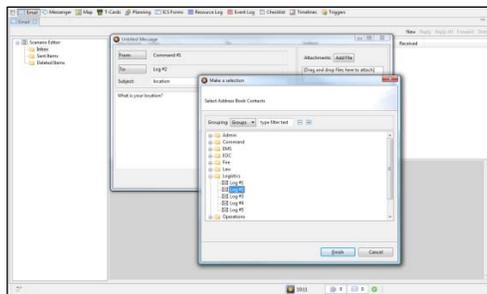
Communication and Information Management

Exercise Control

Distributed Exercises

Classroom-based Instruction

Table Tops

TEXAS CENTER FOR APPLIED TECHNOLOGY

There are many problems that require the careful and proper integration of applied technologies to find solutions. The Texas Center for Applied Technology (TCAT) was created to focus on these specific problems and to develop effective and efficient solutions. TCAT's core competency is the innovative application of existing technologies and advanced research to solve complex real-world problems.

TCAT's primary objective is to apply and test technologies to address targeted problems and engage basic research as required. TCAT has employees in a variety of locations with the ability to perform research that cuts across multiple technologies, disciplines, and cultures. The Center's employees are knowledgeable regarding customers' requirements and are ready to respond effectively to provide the best value for the customers' needs including expertise in technology insertion, technology assessments, and test and evaluation.
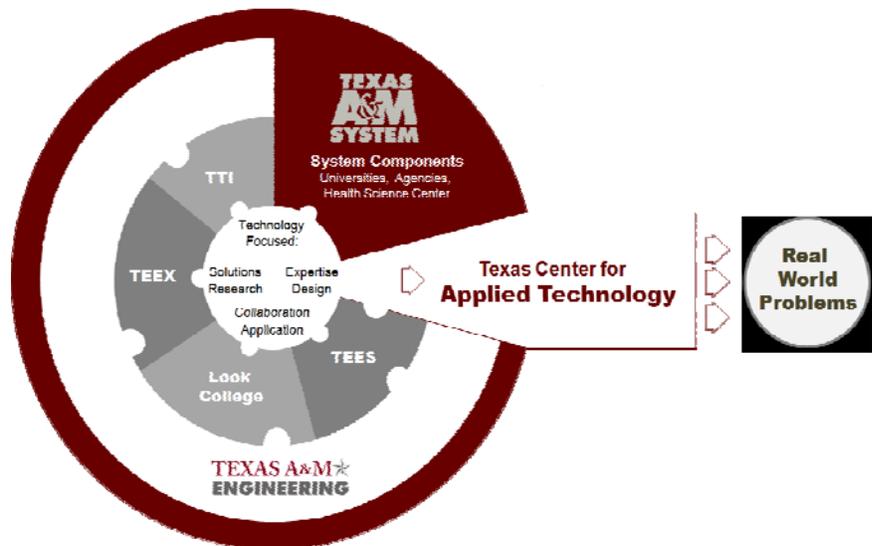
TCAT is part of the Texas A&M Engineering Experiment Station (TEES), a member of The Texas A&M University System. The A&M System is one of the largest and most comprehensive systems of higher education in the United States. Through a statewide network of eleven university campuses, seven state agencies, and a comprehensive health science center, the A&M System educates more than 120,000 students on its university campuses, conducts more than $780 million in research, and reaches another 22 million people through service each year. TEES is an engineering research agency for the state of Texas and conducts over $147 million in research annually. Because of the Center's position within the Texas A&M Engineering program, TCAT's expertise can easily be extended by rounding out its team with world class faculty researchers, as appropriate. TCAT is in an excellent position for collaboration not only with The Texas A&M University System components and their customers but with other universities, institutions, centers, and industry.

TCAT'S CORE COMPETENCIES

Energy Sustainability ★ Environmental Sustainability
Manufacturing & Systems Engineering ★ Information Technology ★ Modeling & Simulation
Technology Insertion ★ Test & Evaluation

TEXAS A&M ENGINEERING

Texas A&M Engineering consists of the Dwight Look College of Engineering, and three engineering agencies, including TEES: Texas A&M Transportation Institute (TTI) conducts research and professional education in all modes of transportation. The Texas A&M Engineering Extension Service (TEEX) works to develop a highly skilled and educated workforce and enhances public safety through training, continuing education, and technical assistance.