A Division of Environmental Tectonics Corporation (ETC)

SINCE ITS INCEPTION IN 1969, ETC HAS BEEN COMMITTED TO PROVIDING TECHNOLOGICALLY INNOVATIVE SIMULATION, TRAINING AND EQUIPMENT SOLUTIONS TO GOVERNMENT AGENCIES, MILITARY INSTALLATIONS, INDUSTRY, EMERGENCY MANAGEMENT ORGANIZATIONS AND ACADEMIC/TRAINING INSTITUTIONS.

ETC's broad range of customized products include pilot training systems, vehicle drive and operation trainers, hyperbaric chambers, control systems, HVAC and automotive testing, and sterilization solutions. ETC also owns and operates the National Aerospace Training and Research Center (NASTAR Center), which offers the only FAA-approved suborbital and orbital flight training program in the world.

THE ETC ADVANTAGE

• More than 42 years of experience developing true simulation systems
• Functional training systems installed in over 80 countries
• ISO 9000 and 9001 certifications
• In-house software development
• A worldwide staff of over 350, with logistics support capabilities from ETC offices located in the USA, Poland, Turkey, Egypt, Abu Dhabi, Malaysia and Thailand
• Staff subject-matter experts available for training and support
• An extensive background in emergency response related projects

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ADMS SIMULATES DISASTERS AND EMERGENCIES

A STRONG FOUNDATION
ADMS is an interactive and dynamic virtual reality platform built on a strong foundation of more than 40 years of research and development. First introduced in 1994, ADMS has evolved into a world-class training solution. It is successfully used by leading organizations worldwide to train their Incident Commanders, Command Teams, Operations Center Staff and Drivers.

Effective training is critical to the successful resolution of emergencies, disasters, or security events. Considerations such as time, personnel, resources, budget, safety, security, and environmental responsibility often make training for many situations impractical. The Advanced Disaster Management Simulator (ADMS) offers you a proven, cost-effective solution for these training challenges.

SIGNATURE TECHNOLOGY
Our reputation is based on our signature simulation technology which combines unrivaled artificial intelligence, physics-based effects and models, and high-fidelity graphics. ETC Simulation’s impressive virtual environments are considered superior within the simulation industry by both users and experts.

WEATHER CONDITIONS
Wind, rain, snow, cloud cover, and time of day which can be selected by training staff and will progress in real-time.

ARTIFICIALLY INTELLIGENT VEHICLES & CREWS
Vehicles, crews and casualties demonstrate authentic capabilities and reactions. Various examples include:
- Fire trucks that run out of water or agent.
- Crews that are deployed with the vehicle, and can drive in real-time to the incident, with traffic affecting arrival.
- Crews that execute actions in real-time. They don personal protective clothing, run hoses, cordon roads, rescue people, climb ladders, deploy lights, extricate casualties, cover spills, arrest armed gunmen, etc.
- Collision detection for both vehicles and people.
- Crowds that react realistically based on police actions.
- Primary and secondary triage of casualties. Health conditions deteriorate if not treated.

SUPERIOR-HIGH-END VISUALIZATIONS CREATE TRUE-TO-LIFE TRAINING ENVIRONMENTS
High fidelity graphics of virtual environments with display solutions varying from 3D LED to panoramic immersion theaters.

DIRECTIONAL SOUNDS
Sounds that emanate genuinely from people, hazards, agents and traffic.

PHYSICS-BASED SIMULATION
All effects within the simulation are true-to-life: fire, smoke, and hazardous material plumes spread realistically and weather conditions such as wind speed or direction will affect fire fighting and hazmat cloud dispersion.

DIRECTIONAL SOUNDS
Crowds that react realistically based on police actions.

WEATHER CONDITIONS
Collision detection for both vehicles and people.

PHYSICS-BASED SIMULATION
Collision detection for both vehicles and people.

ADMS spans all levels of emergency management including on scene incident command, coordinating authorities, and emergency operations staff.

IMMERSIVE TRAINING
Trains become immersed within the unscripted and open-ended scenarios, eliciting real-life emotions and field-like responses. They base decisions on what they observe on-scene in ADMS, and the simulator reacts in real-time to their commands and actions. Trainers gain insight into the effects of their decisions as they watch the consequences unfold before them. Exercises can be recorded and trainers’ commands can be documented, providing the necessary information to conduct a comprehensive debriefing at the end of the training session.

ADMS further challenges your trainees’ proficiency by altering event-changing variables within the scenario, including the type and level of threat, quantity and condition of involved casualties, behavior of bystanders, traffic patterns, weather conditions, time of day, hazardous material selection or the occurrence of secondary incidents within the exercise scenario.

ADMS IS THE MOST REALISTIC DISASTER AND EMERGENCY RESPONSE SIMULATION TRAINING SYSTEM AVAILABLE!

THE ADMS ADVANTAGE
- Decreased operational and training costs
- Increased learning retention and on-scene performance
- Ability to train anytime, anywhere without the disruption of daily operations or security concerns
- Reduced safety issues for your trainees, your staff and the environment
- Ease of creating scenarios based on exactly the circumstances needed
- Structured and objective scoring and assessment capabilities
- Control over the entire exercise process by the instructional staff
- Efficiency of training more people, more frequently, for more incidents
- Comprehensive all-agencies, all-hazards training approach
- Development, testing and validation of emergency management plans using system-generated data
- Exercising on a system that supports NIMS, NFPA, HSEEP, NATO, ICAO and CAA requirements

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