

# BREAKAWAY ltd.

## MASS CASUALTY INCIDENT RESPONSE



BreakAway has developed a model for training medical personnel in how to manage a mass casualty incident (MCI) through the protocols of the Hospital Emergency Incident Command System (HEICS).

Implemented in *Code Orange*, the simulation enables hospital staff to practice their job responsibilities in the event of a mass medical catastrophe. *Code Orange* allows employees and volunteers to practice their roles as Emergency Operations Center administrators and crisis managers, while the artificial intelligence operates as triage doctors and nurseS, emergency department t staffers, security guards, and patients who await processing for treatment.

Rather than traditional training exercises which tie up facilities and personnel for hours or days at a time for rehearsals, *Code Orange* allows the exercise to be carried out individually or in small groups in one room, for frequent, less costly, anytime-anywhere training.

### < BUILT ON REAL-WORLD PROTOCOLS >

A key aspect of HEICS protocol is the Job Action Sheet, which outlines the critical tasks all levels of personnel must perform - and their relative priority - in the event of an emergency. Using job action sheets to design the training experience for users compels them to begin learning their real-world roles for a mass medical catastrophe.

### < EDITABLE DATA FILES CONTROL SIMULATION PARAMETERS >

**In addition to 48 individual job action sheets, editable datafiles allow for end-user modification of scenario elements such as:**

- Type of MCI and expected scope and degree of impact
- Levels of patient injury, types of injuries, and numbers affected
- Triage destination by unit and specialist
- Impacts presented by health, fatigue, supplies and logistics, character stress level and skill level
- Communications system for relaying messages to user

### < GEARED FOR EVALUATION AND PERFORMANCE REVIEW >

**The simulation architecture is designed for training and testing to convey a thorough understanding of HEICS to trainees.**

- All 34 key management positions found in the HEICS protocol are incorporated through both human- and computer-controlled positions in the simulation
- 1-13 human player positions available
- Two modes of use – Emergency Operations Center (EOC) and hospital Emergency Department
- Designed to integrate with a proprietary Learning Management System (LMS)

## A model FOR THE mōsbē PLATFORM

BreakAway is evaluating how to integrate this model into a capability for our mōsbē development platform. Integrated with mōsbē's existing tools, the **Code Orange** model becomes powerfully customizable through the capability to use real-world data to simulate 2D/3D views of locales, infrastructure, and assets and develop custom scenarios tailored to your training and course-of-action analysis needs.

Together with the a first responder training model and the first-person medical skills training tools, these simulations provide complementary models and toolsets for coordinating responses to natural and manmade disasters between first responders arriving on the scene first receivers dealing with an influx of patients, and medical staff learning how to diagnose and treat injuries.

### Mass casualty response training in real world settings, coordinated with incident command and medical training

