The CBR wizard will enable users to model the dispersion of contaminants and the extent of their impact on facilities in the contaminated area.

activity type; scheduled hours of operation, etc.) will be extracted from existing installation databases to allow emergency responders and force protection planners to identify type and extent of vulnerabilities and develop plans to mitigate impacts.

Integrated AT/FP Screening Tool

The Integrated Anti-Terrorism/Force Protection (AT/FP) Screening Tool will help designers evaluate Army Installation Force Protection needs and requirements. The tool will be in the form of a modified Leopold Matrix that will provide a rating on the relative level of criticality of various Mission Essential Vulnerability Areas and High Risk Targets (MEVAs/HRTs) or Single Points of Failure (SPF) on an Army Installation. The rows of the matrix will be populated with information on specific "Installation Features" such as type and location of critical buildings, access control point (ACP), or utilities. The columns of the matrix will be populated with "Force Protection Factors" such as actions used to mitigate blast effects, protect against CBR, or to enhance physical security. A third dimension of the matrix will be the "Threat Probability." The cells at the intersections of these rows/columns will provide a rating of the importance of those specific Force Protection Factors for each Installation Feature for a given threat probability. Each matrix cell will also provide information on where to find the relevant references on applicable DoD/Army policy and recommendations for achieving the recommended level of protection and courses of action for the identified MEVAs, HRTs, and SPFs.

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Engineer Research and Development Center

Contact

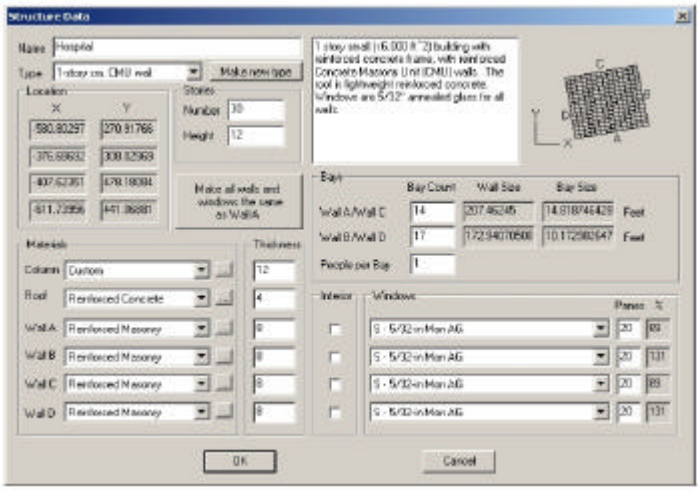
U.S. Army Engineer Research and Development Center
Dr. Ashok Kumar, Project Leader
Phone: (217) 373-7235
Email: Ashok.Kumar@erdc.usace.army.mil

Kirk D. McGraw, Explosive Threat Force Protection
Phone: (217) 352-6511, x7511
Email: Kirk.D.McGraw@erdc.usace.army.mil

James Miller, Chemical, Biological, and Radiological Attack
Phone: (217) 352-6511, x7302
Email: James.Miller@erdc.usace.army.mil

Dr. Ashok Kumar, Integrated Anti-Terrorism/Force Protection Screening

FAX: (217) 373-7222



Data is imported from *Building Composer* into BEEM to generate building and installation models for explosive threat analysis.

physical security to ensure mission accomplishment. These integrated software tools will assist designers, planners, operators, owners, and users in assessing their level of readiness for attacks against the infrastructure and personnel, and in determining and evaluating alternative options for minimizing vulnerability.

Tools

Wizards

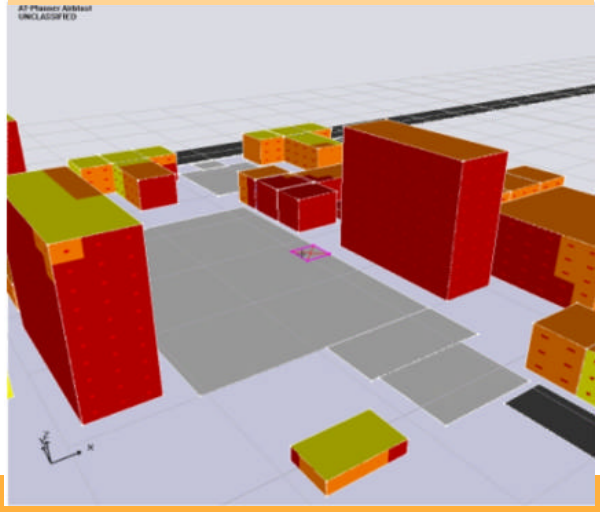
Wizards are software components that operate on a discrete design task by taking information and user input to create or manipulate a model rapidly, all according to generally recognized or organization-specific practices. A Wizard extends program functionality by "knowing" how to use data to create or analyze input information in a useful way.

Explosive Threat Force Protection Wizard

The Explosive Threat Force Protection Wizard provides safety and master planners the ability to generate building and installation models for explosive threat analysis. The wizard automatically extracts information about the building and site from the Fort Future installation model. The planner then uses the Blast Effects Estimation Model (BEEM) to define threats and analyze the resulting damage in a 3-D view. This allows the planner to establish stand-off distances and evaluate various protective strategies.

This tool leverages BEEM, which provides the front-end for established and validated modeling codes including the blast effects analysis of the Army's Anti-Terrorism Planner (AT-Planner) and the ballistic effects of the Navy's Force Protection Tool (FPT). BEEM is being developed for the Counter Terrorism Technical Support Office (CTTSO) Technical Support Working Group (TSWG).

Minimum AT Standards for Buildings Wizard

The Minimum AT Standards for Buildings (MATSB) Wizard will be a web-based software tool that will aid facility planners and designers to ensure that all of the applicable minimum antiterrorism/force protection standards that are addressed in Unified Facility Criteria (UFC) 4-010-01, *DoD Minimum Antiterrorism Standards for Buildings*, are properly identified and included in the project requirements. Initially, the wizard will prompt the User for project-specific input and then walk the User through a decision-tree process

Sample BEEM blast-damage assessment: blast located at ground level "x"; colors differentiate degree of damage.