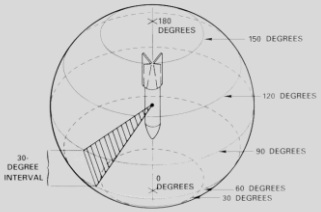
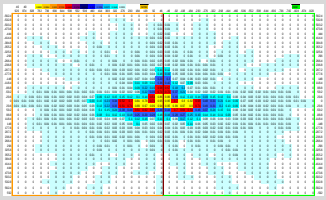
Fires Modeling and Simulation

Effectiveness & Lethality Methodology Products

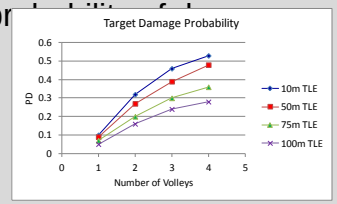
Joint Mean Area of Effects (JMAE): Combines fragmenting warhead characteristics with materiel target vulnerability to estimate weapon lethality





Average Matrix (AvMat): Averages damage effects over multiple conditions to produce single grid for engagement effectiveness and risk-to-friendly-troops calculations

Matrix Evaluator (ME): Models system effectiveness by combining warhead damage with delivery errors, aiming strategies, and other modeling parameters to produce estimates of engagement pr

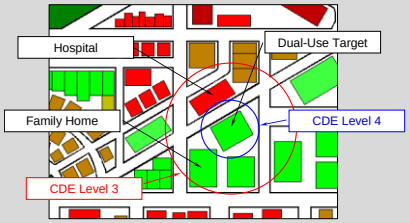


Methodology Applications

Providing key building blocks to critical analytical applications

Indirect Fire Methodology Products are …

Applied to: critical Army studies and materiel acquisition decisions

Utilized for: Joint weaponeering solutions and risk-to-friendly-troops calculations

Integrated into: Joint Staff policy for estimating collateral damage established to minimize risks inherent in weapon strikes