DISMOUNTED WARRIOR PERFORMANCE DATA PROJECT | TSPID

BACKGROUND:

The modeling and analysis community has long recognized that warrior performance data describing combat engagements closer than 100 meters during military operations in urban terrain (MOUT) are very limited. Examples of these data include target detection and engagement; troop movement rates for approaches to urban areas and during room clearing operations; and platoon/squad leader decision making. Additionally, current constructive models only permit the representation of a limited set of battlefield stressors (e.g., ballistic casualties, heat stress, etc.) because the underlying data for these stressors are often rudimentary. Therefore, human performance and other supporting data (e.g., equipment characteristics, weather effects, etc.) are critically needed for dismounted warrior modeling and analysis.

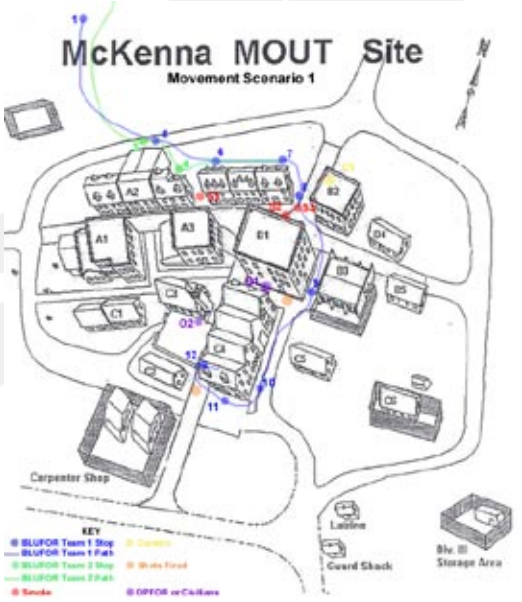
OBJECTIVE:

To address this recognized need and to support the Infantry Warrior Simulation (IWARS) Army Technology Objective (ATO), dismounted warrior performance data must be obtained through field studies and data mining. Therefore, the Natick Soldier RDE Center has teamed with the U.S. Army Materiel Systems Analysis Activity (AMSAA) for weapons effects data and military subject-matter experts; the U.S. Army Research Laboratory (ARL) for human factors; the U.S. Army Training and Doctrine Command (TRADOC) Soldier Battle Lab (SBL) for test facilities and soldier participants; and General Dynamics Information Technology (GDIT) for modeling software and data warehouse development.

APPROACH:

The Data Study Team will achieve this objective in the following manner:

- Identify, prioritize, and collect dismounted warrior performance data that accurately represent both individual and small units during close combat/MOUT for modeling and analysis efforts conducted under the IWARS ATO and other associated programs;
- Execute field studies with dismounted warriors and develop data mining methodologies for extracting meaningful data from existing sources;
- Provide the data in a timely manner to the IWARS ATO Team for their use in the development, verification, and validation of the IWARS constructive simulation; and
- Development and maintain the on-line Data Access and Retrieval Tool (DART) to provide DoD and international analysts access to the data in a secure manner.



POINTS OF CONTACT:

Released By: Modeling & Analysis Team Ldr., Technology, Systems and Program Integration Directorate

Action Officer: Senior Analyst, Modeling & Analysis Team
COMM: (508) 233-5076, E-MAIL: modeling@us.army.mil

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.