



Data Access and Retrieval Tool (DART)

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Background:

Warrior Systems materiel developers, user representatives, system testers and evaluators, and milestone decision authorities are in need of verified and validated data and relevant analyses to reduce program cost, schedule, and risk. Further, the current Army and DoD focus on rapid development and fielding demands that simulated testing accurately represent the physiology and performance of the individual warfighter if models are to be used with a high degree of confidence. As a consequence, data that represent individual dismounted warrior performance, especially for military operations in urban terrain (MOUT), are critical for supporting modeling, simulation, analyses, and ultimately decision making. In order to address this recognized need, the Human Science/Modeling and Analysis Data (HSMAD) Project was initiated in October 2000.



Objective:

One of the primary goals of the HSMAD Project is to identify, develop, and implement a process to ensure access to, and storage and maintenance of, all the collected data and make it available to analysts DOD-wide and beyond. To this end, the Data Access and Retrieval Tool (DART) has been developed and deployed in June 2003. DART makes summary data, raw data, and supporting information available to DoD analysts in the following areas for the purposes of conducting dismounted warrior analyses:

Data Classes:

- Move
- Shoot
- Communicate
- Sense and Perceive
- Decide

Analytic Resources:

- Weapons & Equipment Specifications
- Physiological Data
- Multimedia
- Technical Reports
- Websites and Other Useful Links

Approach:

DART has been designed to be flexible and scalable to accommodate large quantities and different types of data. The system uses a three-tier architecture that consists of web, database, and application servers. The web server provides a secure front-end interface to the system. The database server houses dismounted warrior performance data, video files, and supplemental information. In the future, the application server will provide users with various reporting tools that will allow them to run in-depth statistical analyses on data from the warehouse.

Major Features:

- Access Via the Internet
- Password-Protected, Secure User Accounts
- Study Search and File Finder
- Robust Data Query
- Glossary
- Dynamic Data Updates
- Ability to view documents, spreadsheets, presentations, and videos

Schedule:

FY01-FY04

Point of Contact:

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