

Medical Informatics Fusion Decision Support (MIF-DS)

...research and prototype a medical planning business intelligent solution

Research and develop a working Medical Informatics Fusion Decisions Support (MIF-DS) prototype solution that fuses information from disparate sources

The Medical Operations Center (MOC) is a key component of the military planning scheme where planners, commanders and operators work together to execute the Operations Plan. The MIF-DS team will demonstrate, through research and prototypes, the capability of presenting comprehensive information to medical readiness planners and decision makers in real time (MOC in a box). The MIF-DS solution will exhibit the capabilities and value of business intelligence functionality, to support and refine the Air Force medical readiness decision-making process.

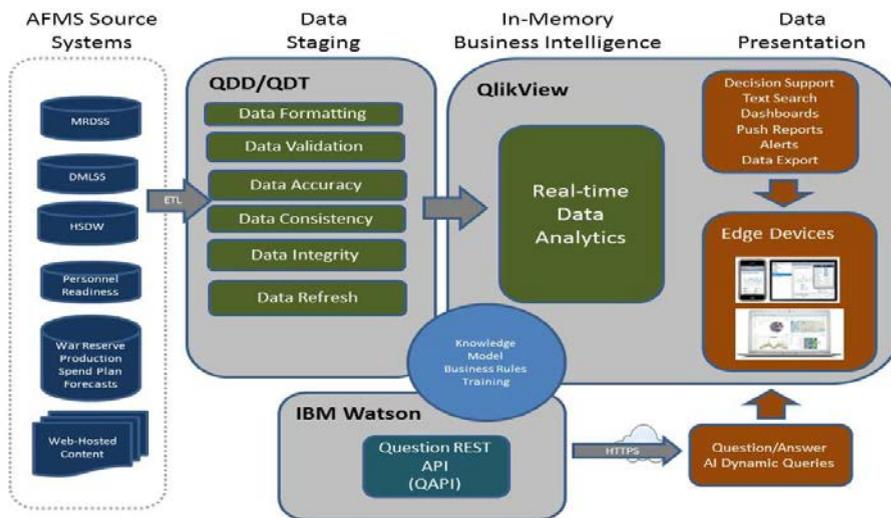
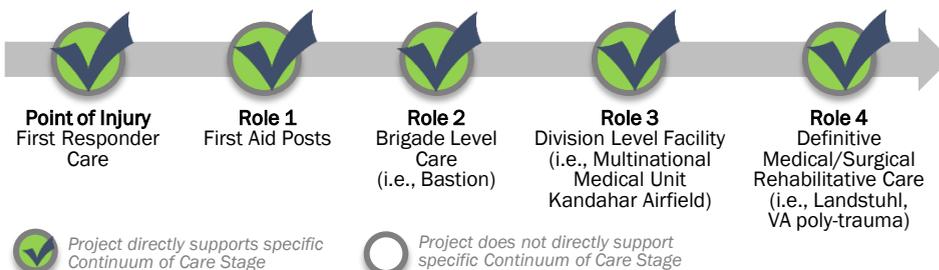


Figure 1: MIF-DS High Level Architecture

Supporting the Continuum of Care



Key Features

The MIF-DS research will assist the government in:

- Providing working, tested prototypes based on AFMS decision support use case/scenarios
- Improve the effectiveness of decision making
- Shorten durations of data discovery and analysis
- Enhanced accuracy and timeliness of data presented
- A more comprehensive picture of readiness factors
- Enhanced consistency of the data content

Technologies Investigated

Data Mining and Data Analysis

- Data discovery, cleansing, and normalization
- Extract, Transform and Loading (ETL) capabilities
- Database design and schema development
- Canonical Model development for the underlying data sources

Data Visualizations

- Data presentation and dynamic query tools
- Data Visualization approaches, to include dashboards and GUI tools



This project is managed by the **Pacific Joint Information Technology Center**, which focuses on rapidly researching, testing, and developing warfighter medical solutions and products, through pilots or prototypes in support of the DOD.