

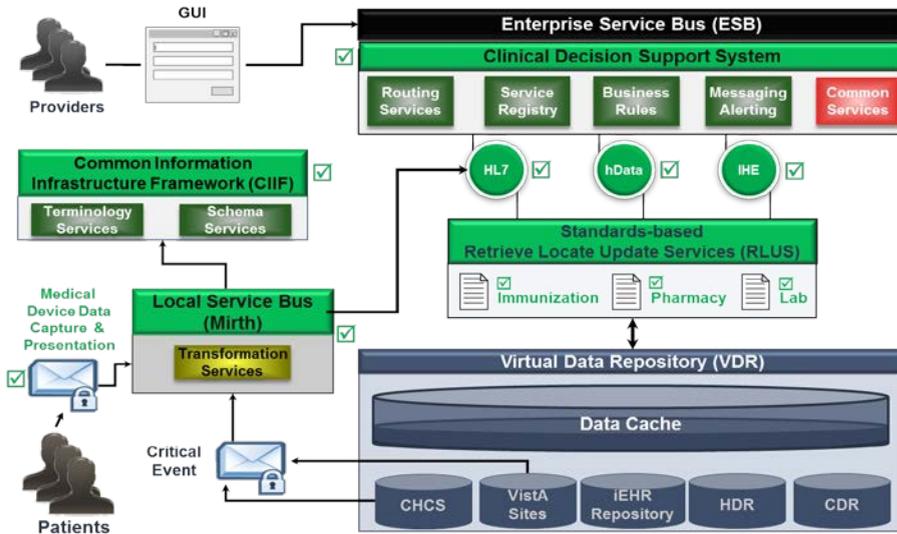
# Integrated Business Optimization (iBO)

...research and prototype a SOA/ESB based business logic solutions

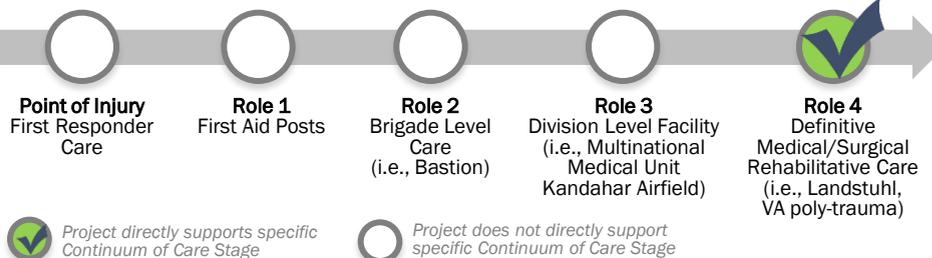
## About the iBO Project

Research technical approaches for utilizing the iEHR SOA ESB to facilitate the interactions and transfer of data between legacy and new systems across four areas; **Medical Devices, Pharmacy, Immunization and Laboratory.**

The iBO project delivered a series of technical recommendations based on detailed analysis, research, prototyping and testing activities. The recommendations may guide future research, development and acquisition plans within the DoD as preparations are made for the new health care architecture. The use of the research findings may result in significant improvements in patient care, patient record keeping and an overall cost savings, as more advanced and cost effective technological approaches are adopted.



## Supporting the Continuum of Care



## Key Features

The iBO research assisted the government in:

- Providing working, testable prototypes, based on real clinical use cases, which demonstrate techniques to expose data from legacy systems using SOA, HL7, LOINC, and other industry messaging standards.
- Delivering actionable research results, which demonstrated the capabilities, limitations, benefits, and drawbacks of differing alternatives used to integrate legacy clinical data and business rules in a SOA systems environment.
- Adapting business workflows to leverage open systems technologies and standards to facilitate the transition from legacy systems into a rich SOA systems architecture, capable of supporting current and future needs.
- Demonstrating how data aggregation from multiple systems, with open source Clinical Decision Support applications, is able to enhance clinical decision support and improve care.
- Demonstrating techniques to bring data forward from legacy systems using industry standards for use with the new Defense Healthcare Management Systems Modernization (DHMSM) system or other systems capable of communicating, using standards based messaging.



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.