



Trifecta Solutions

Critical Thinking for the Health Care Domain

Capabilities Briefing

2014



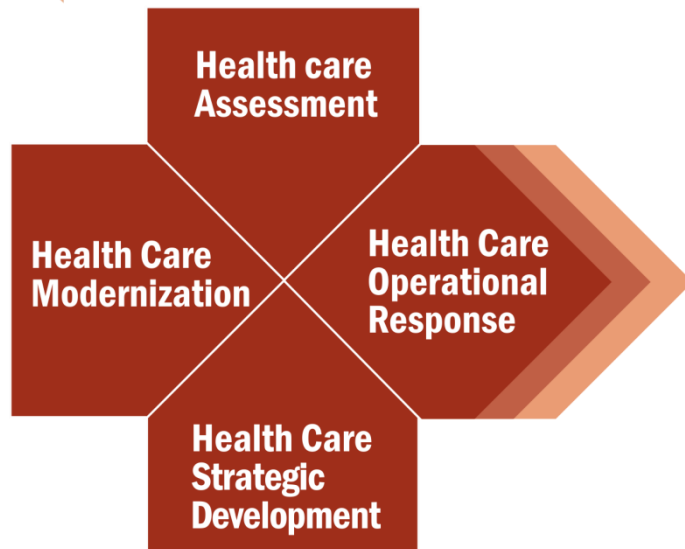
Our Mission

Trifecta Solutions is a Service Disabled Veteran Owned, Woman Owned small business that seeks to develop the strategies and tools to support health care transformation.





Trifecta Solutions



Critical Thinking for the Healthcare Domain

- ▶ Improving population health
- ▶ Reducing costs associated with care
- ▶ Moving toward evidence based practices
- ▶ Improving patient safety
- ▶ Improving health care response
- ▶ Improving the patient care experience

Our Expertise Adds Value

- ▶ **Health Care Modernization** – Support successful implementations and exploiting the impact of systemic changes, through technology insertions or process re-engineering
- ▶ **Health Care Assessment** – Provide Tools and Techniques to gather quantitative measures of performance, including assessing and tracking health care initiatives of impact, quality care, and capabilities
- ▶ **Health Care Strategic Planning** – Provide frameworks for effective decision making in a dynamic environment and establishing clear links between planning and action
- ▶ **Health Care Operational Response** – Support the development of the plans and policies necessary for effective health care responses to disasters, military operations and CBRN events

 **Trifecta Solutions**

**Operational
Response**

**Visual
Analytics**

**Independent
Verification
& Validation**

CONOPS

Program Management

DECISION SUPPORT

Modernization

**Exercise
Design
Planning &
Execution**

Health Care

Assessment

Information Engineering

TESTING

**Innovation
Diffusion
Study**

ANALYSIS

**Strategic
Development**

EHR

**Meeting
Facilitation**

**Requirements
Definition/
Development**

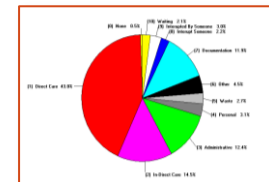
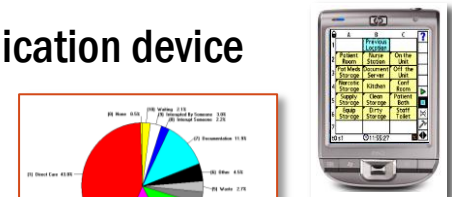
**Logical
Frameworks**

▶ Trifecta Solutions Offers

- ▶ Technology Implementation & Assessments
- ▶ Operational Demonstrations
- ▶ Innovation Diffusion Studies

▶ Client Results

- ▶ Completed an Innovation Diffusion Study for a hands-free communication device that assessed the adoption rate and impact of the new technology
- ▶ Demonstrated best practices for communication technology insertion in a busy medical center
- ▶ Designed use scenarios for a Joint Concept Technology Demonstration (JCTD) of a casualty monitoring technology for combat medics and special forces; the JCTD was recognized as the OSD “JCTD of the Year” in 2011
- ▶ Assisted technology transition through exercises to address suitability utility evaluations and process improvement measures in specific operational environments

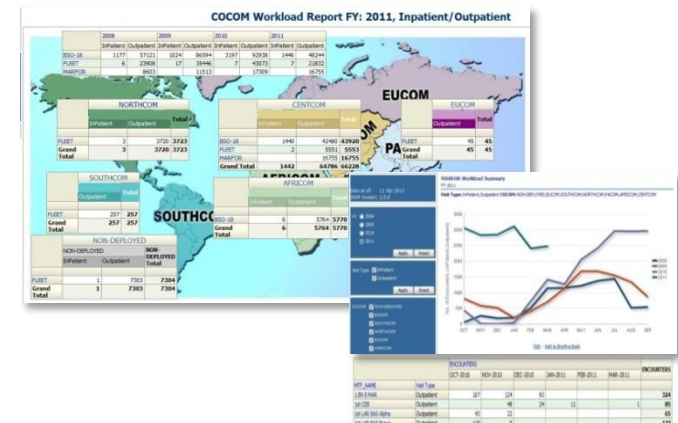


▶ Trifecta Solutions Offers

- ▶ Studies, evaluations, measures, and metrics development
- ▶ Information and visual analytics
- ▶ Assessment frameworks

▶ Client Results

- ▶ Developed the handbook on measures of effectiveness for humanitarian assistance missions for Navy Medicine
- ▶ Analyzed the workload data of deployed military medical units
- ▶ Supported the development of assessment measures for Navy health engagement missions in 2013 & 2014

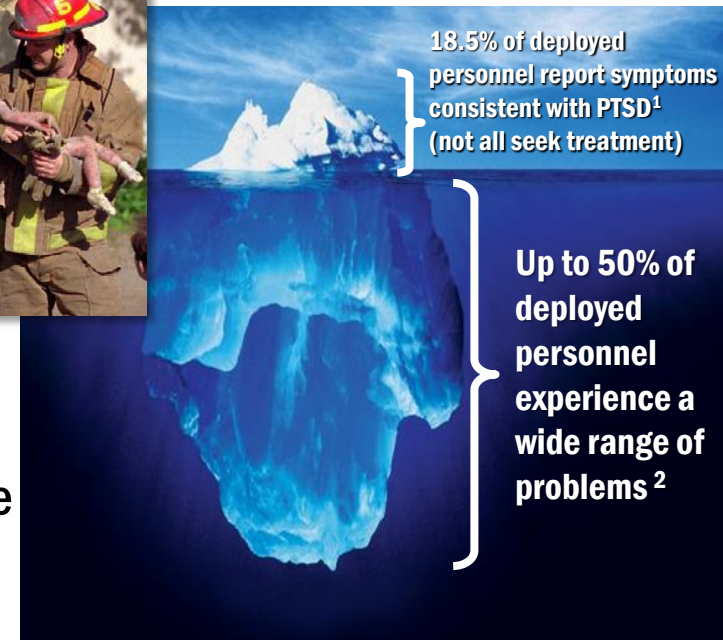


▶ Trifecta Solutions Offers

- ▶ Program development & management
- ▶ Strategy development
- ▶ Design & facilitation of strategic working sessions

▶ Client Results

- ▶ Developed a medical assessment framework for cooperative health engagements
- ▶ Developed a study design for VHA recognized as its 'standard' for future innovation diffusion studies
- ▶ Supporting a management assessment of funded Wounded Warrior efforts
- ▶ Supporting the management of a Navy Medicine research portfolio



¹RAND, "Invisible Wounds of War," 2008

²Studies of firefighters following New York City, 9/11

▶ Trifecta Solutions Offers

- ▶ Medical Planning
- ▶ CBRN defense CONOPs
- ▶ Surveillance requirements

▶ Client Results

- ▶ Developed a framework for the effective use of epidemiological models during a public health emergency
- ▶ Key leaders in the development of the DOD Smallpox & Pandemic Influenza Response plans
- ▶ Served as the Executive Program Director for the Silent Guardian II Demonstration Project for the U.S. Air Force



- ▶ **Client:** Veterans Health Administration, VISN5
- ▶ **Challenge:** Conduct an innovation diffusion study of a hands free communication device (HFCD) in the Washington D.C. VAMC
- ▶ **Results:**
 - ▶ Measured the impact of the HFCD on patient care (demonstrated a statistically significant improvement in the amount of time nurses spent at the bedside)
 - ▶ Measured the adoption rate of the HFCD (leading to the identification & correction of implementation issues)
 - ▶ Nominated by VA for Wall Street Journal Innovations Award (2012)

- ▶ **Client:** Navy Surgeon General (OPNAV N931)
- ▶ **Challenges:**
 - ▶ Develop measures for cooperative health engagements
 - ▶ Monitor the operational workload of deployed military medical units
- ▶ **Results:**
 - ▶ Developed the BUMED handbook “Monitoring & Evaluation Principles for Cooperative Health Engagements (CHEs)”
 - ▶ In support of the Fleet Health Integration Panel, developed the strategic framework for assessing CHEs
 - ▶ Developed the (Medical) Mission Assessment Plan for PACIFIC PARTNERSHIP 2012, deployed revised version in PP13 and supporting PP14
 - ▶ Developed the process for monitoring operational workload, collecting over 3 yrs of medical workload data from the CENTCOM theater

Joint Medical Distance Support & Evacuation

- ▶ **Client:** Joint Forces Command (JFCOM) in partnership with Johns Hopkins University Applied Physics Lab
- ▶ **Challenge:** conduct a Joint Concept Technology Demonstration (JCTD) of advanced point of injury casualty care technologies
- ▶ **Results:**
 - ▶ Effort awarded OSD “JCTD of the Year” in 2011
 - ▶ Developed user specific medical scenarios for evaluating casualty care technologies
 - ▶ Validated and refined requirements and concepts of operation for Tactical Combat Casualty Care

Operational Epidemiological Decision Making

- ▶ **Client:** NORTHCOM in partnership with Yale New Haven Center for Emergency Preparedness & Disaster Response
- ▶ **Challenge:** Develop an operational epidemiological modeling process within the U.S. federal agency community
- ▶ **Results:**
 - ▶ Conducted an extensive review of current policies and research on the use of epidemiological models in outbreaks
 - ▶ Designed and facilitated multiple inter-agency working group meetings
 - ▶ Developed recommendations for an inter-agency process for developing and using models during an outbreak

Communication Technology Insertion

- ▶ **Client:** Air Force Air Combat Command Surgeon General
- ▶ **Challenge:** Exploited technology capability through best practice insertion and measures of quality performance
- ▶ **Results:**
 - ▶ Marketing strategy informed and generated excitement in staff and patients
 - ▶ Implementation strategy ensured immediate correction of user issues
 - ▶ Quality measures recorded impact of technology insertion

Advanced Telemedical Monitoring Technology

- ▶ **Client:** Telemedicine and Advanced Technology Research (TATRC) in partnership with Johns Hopkins University Applied Physics Lab
- ▶ **Challenge:** Supported technology insertion from development to fielding
- ▶ **Results:**
 - ▶ Supported technology insertion in suitability utilization evaluation exercises through development of medical scenarios appropriate for end user
 - ▶ Challenged medical technology performance in larger military operational picture

VHA Product Effectiveness: Benefits Realization

- ▶ **Client:** Veterans Health Administration (VHA) Product Effectiveness (PE) program.
- ▶ **Challenge:** The performance of various assessments and analyses on specifically selected IT products developed or purchased for VHA to ensure that they are effective and meet the needs of Quality, Safety and Value group customers.
- ▶ **Results:** evaluating the effectiveness of the integration of the Navy and VA health clinics in the James A. Lovell Federal Health Center in Chicago
- ▶ **Contract Award:** \$2,145,389



Naval Medical Research Center

- ▶ **Client:** NMRC's Advanced Medical Development Program at Ft. Detrick, MD.
- ▶ **Challenge:** Support strategic planning and development of technical, financial and programmatic materials necessary to assist AMD in the management and execution of its research portfolio
- ▶ **Results:** research portfolio assessment and management
- ▶ **Contract Award:** 9/16/2013 for \$382,239 (3 yrs.)



US Navy Wounded Warrior Program

- ▶ **Client:** Navy Medicine Wounded Warrior program.
- ▶ **Challenge:** Performing a management assessment of Navy Medicine's Wounded, Ill and Injured funding portfolio.
- ▶ **Results:** Rigorous program evaluation
- ▶ **Contract Award:** 9/6/13: \$647,671



Company & Contact Information

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**Service Disabled Veteran Owned,
Woman Owned Small Business**

DUNS Number 962422841

Cage Code 603V2

FCL: Secret

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