

Translational Research Advanced Capability Acceleration (TRACA) Methodology
Development and Implementation/Pathfinder Program
Request for Proposal (RFP) - Civil Knowledge Dashboard
(W911NF2120078-RFP-026)

Background

The Civil-Military Innovation Institute Inc. (CMI2) is a 501(c)(3) non-profit entity that not only supports United States Department of Defense (USDOD) activities to build a civil- military innovation workforce optimized to advance national security technologies but also aligns the work of innovators from institutions of higher learning and non-traditional technology companies with the activities of the USDOD and public safety communities.

The TRACA/Pathfinder program will strategically engage top academic institutions, including university-derived startups across the nation. The program will integrate institutions and Soldiers to solve technical problems in a unified manner. The seeds and pilots project will yield discoveries and future outcomes. The projects will extract creativity from warfighters, students, and faculty. The projects will also allow students and faculty to work together and expose those who lack military experience to DoD (Army) challenges.

Problem Overview

The 95th Civil Affairs Brigade, located at Ft. Bragg, North Carolina, elements are formally tasked with conducting Civil Knowledge Integration (CKI) to enhance supported commander decision-making and provide practical effects during a wide range of US government responses. The brigade will integrate the resulting civil knowledge with other knowledge about the operational environment to create a shared understanding among commanders, unified action partners, international organizations, and civilian partners.

The CKI process collects civil data, which stems from many sources. This data includes Publicly Available Information (PAI), Commercially Available Information (CAI), and information gathered from planned civil affairs operations, actions, and activities that further illuminate the reality of the civil condition of a specified area of interest. A Civil Affairs Soldier must conduct an evaluation to produce relevant civil knowledge products.

Accessing PAI, CAI, and proprietary United States Government (USG) information, such as Situation Reports (SITREP), Operations Summary (OPSUM), Special Operations Debrief and Retrieval System (SODARS), and Information Intelligence Reports (IIR), is time consuming and ineffective. A Soldier must query and log in to multiple systems for a complete picture of the data available. Many Soldiers will forgo

accessing multiple systems if a partial answer can be obtained via an initial query, possibly bypassing more relevant or accurate information in an alternate database.

Statement of Work

To optimize CKI, developers must create a web-based natural language query model with functionality for the end-user, like Open AI's ChatGPT.

A dashboard will contain the language model with the optionality for the user to do queries for research of a country or populate documents. The approach to creating a dashboard includes the following:

Design a dashboard that allows users to access information from cross platforms such as PAI, CAI, and proprietary USG information

- Provide confidence in found data so users can judge if further research is needed
- Provide Non-Secure Internet Protocol Router (NIPR) and Secure Internet Protocol Router (SIPR) based platforms to access information and build products (e.g., research NIPR and build products on SIPR)
- Produce rapid responses to Requests for Information (RFI)
- Generate the following standard CKI products the 95th Civil Affairs utilizes:
 - Civil considerations
 - Operational variabilities crosswalk, such as ASCOPE/PMESII-PT with SWEATMSO template (acronyms meaning listed below)

ASCOPE	Areas, Structures, Capabilities, Organizations, People, Events
PMESII-PT	Political, Military, Economic, Social, Information, Infrastructure, Physical Environment, Time
SWEATMSO	Sewage, Water, Electricity, Academics, Trash, Medical, Safety, Other

The work proposed is to create a civil knowledge dashboard that will involve researchers engaged with CMI2 Pathfinder personnel and Soldiers from the 95th Civil Affairs Brigade. Specific tasks include the development of the following:

1. Literature analysis to validate the problem statement, including shortfalls of prior related solutions
2. End-user discovery to provide requirements for solution development

3. Requirements Traceability Matrix (RTM) to ensure proposed solutions address Soldiers' needs
4. Measures of Effectiveness (MOE) and performance for the proposed solution
5. Demonstratable concept associated with a specific end-user scenario
6. Engineering and project plans required for the development and demonstration of technology demonstrator reflecting the critical attributes of the capability concept
7. Feasibility for the developed tools to be implemented within DOD networks with accepted security practices
8. Test and evaluation plan based on a specific end-user scenario
9. Transition plan that includes the 95th Civil Affairs

Project Proposal Requirements

The maximum page number allowed for this proposal response is 5 pages. Proposals should be submitted within 10 business days of receipt of this RFP. The following outlines the structure and required content for a proposal response to this RFP:

Title page

Background, objectives, and planned results Technical approach

Transition approach

Tasks to be performed

Deliverables

Project schedule

Budget and payment terms aligned to deliverables Key personnel

Proposal Evaluation

Technical Merit – 60%

Transition Approach Plan – 20%

Budget – 20%