

PIID: 70RSAT18CB0000042

and define and measure performance of all methodologies, processes, and tools, including automation, for effectiveness and efficiency across all work areas. This shall include providing information on the methodologies and data that can be communicated to DA-E's various stakeholders, evaluating privacy implications, and delivering data, algorithms, and other project artifacts. The Government will provide feedback in the form of technical direction and go/no-go decisions related to the exercise of optional tasks and/or option periods. The Contractor may support DA-E's efforts in communicating this effort's work outputs and benefits to stakeholders either by conducting briefings, or by contributing project information to Government briefings.

**2.0.2** The Contractor shall measure (estimate when needed) resources consumed (e.g., compute power, manpower, special skills) to execute the developed automated processes/tools over time. The Contractor shall deliver data, algorithms, and other artifacts to DA-E for all tasks under this effort, to include resource measurement (or estimates), e.g., compute power, manpower, special skills, etc., required to execute automated processes. The Contractor shall document and explain how its findings confirm or counter academic and practical understanding of radicalization or topic of study (e.g., human trafficking), or what new insights this effort provides that could support DHS missions.

**2.0.3** The Contractor shall produce a final written report capturing results and findings across all areas of the project. The report must include a discussion of how the project's findings confirm or counter academic and practical understanding of radicalization or topic of study (e.g., human trafficking), or provide new insights that could support DHS missions. If the Government exercises any of the options in this effort, the Contractor shall prepare updated versions of the final report to be delivered at the conclusion of the option period(s).

## **2.1 Task 1: Facebook Group Expander**

**2.1.1** The Contractor shall develop automated processes to identify potential pro-terrorist social media accounts and open Facebook groups where pro-terrorist accounts interact. This task shall include monitoring terrorist propaganda production and distribution, identifying corresponding Facebook accounts and forums using automated tools. The Contractor shall develop and deliver a continuously updated list of these identified accounts and related data (e.g., postings).

**2.1.2** The Contractor shall work with DHS to identify relevant attributes, including assessing the value and tradeoff of such attributes with respect to privacy. The Contractor shall develop these attributes to create a methodology for developing a ranking, or "Risk Score," associated with the identified accounts. The Contractor shall develop tools to automate the identification process, documenting performance measures and metrics related to automating the identification process.

**2.1.3** The Government may request the Contractor to apply their techniques to other areas (e.g., human trafficking, transnational criminal organizations). The outputs of these experiments will be incorporated into the demonstrations, documentation, and artifact deliverables for this task.

**2.1.4** During the base period of performance, the duration of this task is twelve (12) months.

PIID: 70RSAT18CB0000042

**2.1.5** Based on the results of the base period of performance, additional, more focused effort within the scope of this task may be required during exercised option periods. If such additional effort under the scope of this task is required, the exercise of subsequent option periods may include the exercise of the optional Contract Line Item (CLIN) associated with this task in the respective option period.

**2.1.6 Option Period 1:** If exercised, the Contractor shall continue to mature the work under “Facebook Expander” and test this capability in an operational environment at a DHS or HSE partner site identified by DHS.

**2.1.6.1** The Contractor shall develop and execute a test plan that includes performance measures and metrics and tailor/refine capabilities to meet DHS or the host HSE partner’s needs. The Contractor shall conduct its operational testing onsite at the deployed location(s).

**2.1.6.2** The Contractor shall develop and deliver training, including a user guide, for onsite staff to use and maintain the capability if it is selected for long-term mission use.

**2.1.6.3** The Contractor shall deliver a report summarizing the experiment(s) and findings.

**2.1.6.4** The anticipated duration of this task during Option Period 1 is twelve (12) months from date of option exercise.

## **2.2 Task 2: Twitter Expand and Prune**

**2.2.1** The Contractor shall develop automated methods for determining whether an account that has been linked to a confirmed pro-terrorist social media account should also be considered a pro-terrorist account on Twitter. This work shall include developing methods to evaluate, based on other network connections and on content, whether nodes are relevant.

**2.2.2** The Contractor shall build a set of evaluation criteria e.g., using keyword set comparisons, as well as concepts brought in from other disciplines, including communication studies, criminology, and political science to determine node significance.

**2.2.3** The Contractor shall deliver experimental results and artifacts, including methodologies and lists of identified accounts and related data (e.g., postings). During the base period of performance, the duration of this task is twelve (12) months.

**2.2.4** The Government may request the Contractor to apply their techniques to other areas (e.g., human trafficking, transnational criminal organizations). The outputs of these experiments will be incorporated into the demonstrations, documentation, and artifact deliverables for this task.

**2.2.5** Based on the results of the base period of performance, additional, more focused effort within the scope of this task may be required during exercised option periods. If such additional