

MIT LINCOLN LABORATORY

REQUEST FOR CONCEPT PAPER – COMMERCIAL SOLUTIONS OPENING

1.0 PROJECT TITLE:

Transition and Long-Term Sustainment of Geospatial Visualization Software

2.0 SUMMARY:

MIT Lincoln Laboratory (MIT-LL) seeks a transition partner for long-term software sustainment, migration to new technologies, and feature enhancement for a geospatial visualization software baseline. This software is installed at several off-premise facilities supporting Department of Defense (DoD) end users. The software sustainment tasks our partner will perform include periodic updates to the data ingest process, incorporation of new features based on user requests, and patches to address constantly evolving cyber security vulnerabilities. This sustainment effort also offers the potential to incorporate value-added Artificial Intelligence (AI) algorithms that provide novel tools for decision makers.

3.0 BACKGROUND:

MIT-LL is helping operational users realize their vision of a simple to use, web-based, digital map system with virtual whiteboard capabilities for sharing information with mission partners. The software that MIT-LL has developed for this is based on the open source Next-generation Incident Command System (NICS*). Our variant of NICS has been customized for use in this particular application.

The networks that this geospatial software system is installed on are private, classified, distributed wide area networks (WANs). MIT-LL has nodes on these WANs in our Lexington, MA, facility. It is anticipated that software releases from our transition partner will first be installed and tested on the MIT-LL development and integration enclaves, then onto the production system through collaboration with MIT-LL via the MIT-LL nodes on the WANs.

At the moment, the software code base has not yet been fully released as open source. Near-term support on this software sustainment effort will be via a shared source code repository that facilitates joint, collaborative, distributed development between the transition partner and MIT-LL. Familiarity with the Git source code management tool and the JIRA issue tracking tool are required. Expertise in Java, JavaScript, Apache Tomcat web applications, Docker containers, and geospatial data formats are required. Organizations who have experience with the NICS code base are preferred.

Transition partners must complete this work using staff composed exclusively of US Citizens, due to data handling restrictions. Security clearances are not required.

*<https://github.com/hadrsystems/nics-web>