

Department of the Navy SBIR/STTR Transition Program

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NAVAIR 2020-855

Topic # N02-184

Training Simulation Intelligent Scenario Generation Tools
Knowledge Based Systems, Inc.

WHO

SYSCOM: NAVAIR

Sponsoring Program: PMA 205

Transition Target: Maritime ISR (MISR) Community

TPOC:
(407)380-4773

Other transition opportunities:

Resolute Hunter Participants - DoD Communities which rely on Chat driven communications - Air Operations Center, Nellis Air Force Base, Nevada - 432nd Air Expeditionary Wing, Creech Air Force Base, Nevada



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WHAT

Operational Need and Improvement: Current power point and some simulation-based training methods lack integrated content management and on the fly training agility. The MISR community needs a flexible and easy way for MISR instructors to create, execute, grade, and provide after action reporting of the weapons school chat-driven training course practical and exercises. Reduce and improve the class content development activity process for Instructor staff.

Specifications Required: The MISR community required an agile web-based adaptive training technology that is approved to run on Navy NIPRNet and SIPRNet and could rapidly adapt to changing weapon school requirements and teaching situations.

Technology Developed: Currently, Maestro™ provides an agile plug and play training environment that allows instructors to create, execute, grade, and provide after action reporting and debrief. Highlights include the ability to rapidly create training roles and teams, scripted and custom "drag and drop" inject content, training event playback, tagging inject elements with course and training objectives, and semi-automated instructor in the loop student grading. The training jacket capability allows for performance assessment and grade-based reach back at the student and class levels. Training content information is structured to accommodate future development activities that will enable automated training adaptations for improved and tailored grading and training content analysis, resulting in an adaptive training capability – at the student, class, and instructor levels.

Warfighter Value: As most Navy weapon schools were forced to cancel or postpone due to the pandemic, Maestro™ was used in a distributed manner for the MISR's final exercise and practical allowing the weapons school to remain open to graduate their class as scheduled. As a result, Maestro™ is now being looked as a home station aid to reduce travel and costs associated with training efforts. Efforts are also underway to level set class participants prior to the start of a weapons school class as participants typically come from a variety of Mission Design Series (MDS).

WHEN

Contract Number: N68335-19-C-0490 **Ending on:** March 1, 2022

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Draft Maestro Design	Low	Customer Acceptance	5	TBD
Final Software Design	Low	Customer Acceptance	5	TBD
Final Prototype Demonstration	Low	Sponsor Acceptance	6	TBD
Final Report	Low	Sponsor Acceptance	Not Applicable	TBD

HOW

Projected Business Model: With a desktop and web-based version of Maestro™, KBSI is able to service a variety of customer requirements and classifications.

For the unclassified and classified desktop version of Maestro™, KBSI intends to provide licenses directly to the end-user community based on classification need. Support services consisting of software maintenance, training content development as well as customized enhancements and/or features will be offered for a fee.

For the unclassified web-based version of Maestro™, KBSI will offer a subscription-based model hosted in the gov or commercial cloud. For the classified web-based version of Maestro™, KBSI will license the web-version to the government for placement on the appropriate network.

KBSI will also look to partner with SME's for specific training course material development which will be offered as a fee for service.

Company Objectives: KBSI seeks to transition Maestro™ to the Navy's Maritime ISR Weapons School Community as well as MISR Fleet operations. It's our goal that Maestro™ becomes the defacto application to teach Brevity terms within DoD's ISR community.

Potential Commercial Applications: Maestro™ is suited for any training application requiring a stimulus and response measure, such fields would include, 911 Operators, Emergency Response, Law Enforcement, Cyber Security, Critical Protection Understanding, Communications and Customer Service.

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