

WHO

SYSKOM: NAVAIR

Sponsoring Program: Naval Air Warfare Center Training Systems Division (NAWCTSD)

Transition Target: Next Generation Threat System Analysis and Reporting Tool (NGTS ART)

TPOC: (407) 380-8130

Other Transition Opportunities: KBSI's Maestro Application
Air Force Advanced Training Systems Center

Notes: KBSI is currently working with the Navy's Maritime ISR cell to improve after action reviews and student brevity course activities with the ReVoice technology.

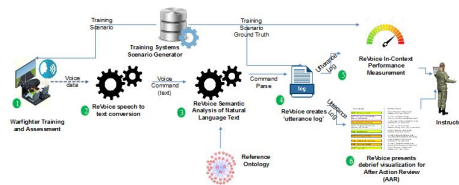


Image copyright 2021, Knowledge Based Systems Inc.

WHAT

Operational Need and Improvement: Inefficient use of voice data for training performance measurement
Lack of contextual understanding for voice and text
Cognitive overload for Training Instructors
Limited support for persistent data capture, reach-back, and re-use
Increasing training life cycle costs

Specifications Required: Seamless integration into existing Naval training systems
Improved after action report capability

Technology Developed: Noise-robust speech recognition with voice profiling
Natural language processing engine with advanced semantic analysis
Context-specific performance measurement with integrated voice data
'Instructor in a box' solution for BREVITY term training and assessment
Intuitive AAR / Debrief visualization
Open architecture based implementation for affordable integration with NGTS ART and other Navy training systems

Warfighter Value: Improved Air Defense Integrated training effectiveness through the use of efficient methods in performance measurement through exploiting information in voice data
Significant reduction in instructor workload through automated analysis and objective assessment of voice data
Enhanced diagnostic feedback by correlating voice data and tactical execution data in near real-time
Significant reduction on time to prepare AAR debrief
Reduced training life cycle costs
Contextual understanding for military audio files

WHEN

Contract Number: N68335-21-C-0709		Ending on: Aug 31, 2023		
Milestone	Risk Level	Measure of Success	Ending TRL	Date
Initial prototype demo	Medium	Sponsor Review	4	1st QTR FY23
Updated prototype demo	Medium	End User Review	5	3rd QTR FY23
Hardened prototype demo	Low	End User Evaluation and Review	5	1st QTR FY24
Validated prototype demo	Low	End User Provisional Acceptance	6	3rd QTR FY24

HOW

Projected Business Model: KBSI is currently pursuing a Software as a Service or SAAS business model for the ReVoice technology.

Company Objectives: KBSI's company objective is to make the ReVoice service available to the greater public as well as additional government entities who might have interest in audio to text conversion.

Potential Commercial Applications: Commercial aviation communication translation services
Enhance commercial aviation training systems after action reports and documentation