AT A GLANCE

WHAT IS IT?
Tool that enables automatic capture and analysis of competency-based, objective performance indices of readiness to improve accuracy of assessment and quality of instruction.

HOW DOES IT WORK?
• Two analysis conducted using FAM2OUS toolset:
  • Current state analysis conducted to understand the problem set, mission, and current performance measures
  • Gap analysis conducted to identify measures and data missing for development
• Identified platform requirements and developed competency-based, automated, objective performance measures to be used for debrief and trend analysis to support decision-making

WHAT WILL IT ACCOMPLISH?
Instructors will be able to assess performance at multiple levels and provide multiple data sources for diagnosing errors and training gaps, which will result in improved proficiency across the training pipeline along with decrease workload.

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This capability will provide instructors with relevant data that is automatically fused to allow for increased for a reduction in manpower and time requirements for instructors. This will also reduce instructor workload focused on assessment and allow for increased quality of instruction and ultimately greater warfighter proficiency and readiness. Finally, this tool will allow for comparison between simulator and flight performance, assess the effect of simulator rehearsal on live flight proficiency, and enable development Concept of Operations and refinement of Tactics, Techniques, and Procedures (TTPs).

Milestones:
• Demonstrated FAM2OUS capabilities at the USMC Training Command Learning Symposium
• Presented a program overview at the SAFE Association 61st Annual Symposium
• Final capabilities demonstration slated for December 2023 in Patuxent River, MD
• Conducted multiple test events at Manned Flight Simulator (MFS) and the E-2D Systems Test and Evaluation Laboratory (ESTEL) in Patuxent River, MD to test updates to code and capabilities

Transition:
The FAM2OUS toolset will soon transition to a Naval training facility where it will support Live Virtual Constructive (LVC) training across the Carrier Strike Group.

Research Challenges and Opportunities:
§ Current debrief tools leverage Joint Simulation Environment capabilities (NGTS Analysis and Reporting System)
§ Limited to individual and unit level measures
§ Heavily Fighter focused
§ Predominately outcome based
§ # red kills, #blue loss, # blue on blue
§ Lack objective data to provide context support to support instructors
§ Communication standards and brevity terms
§ Interdependencies

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