

Fleet Integrated Synthetic Test and Training Facility (FIST2FAC)



EXHIBIT FACT SHEET

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The Fleet Integrated Synthetic Test and Training Facility (FIST2FAC), located on Ford Island aboard Joint Base Pearl Harbor, Hawaii, is a detachment of the Naval Undersea Warfare Center's Keyport Division. It is managed and maintained by the Hawaii Fleet Operational Assessment Division. FIST2FAC enables a scientific approach to the study of information, computation and application to advance synthetic training effectiveness and efficiency in the Department of the Navy. The organization engages in practical evaluation of concept technologies that involve artificial intelligence, computer graphics, human-computer interaction, and computational complexity theory, each with their own technological risks.

FIST2FAC's most recent technology experiment was a proof-of-concept to explore improved integrated training solutions for the Warfighter to defeat the Fast Attack Craft (FAC) – Fast Inshore Attack Craft (FIAC) threat, conducted 28-29 August

2013. Using Fleet operators to man multiple shipboard and helicopter stations, an ability to integrate training across multiple visual monitors at various stations and platforms was successfully demonstrated.

Selected key stations for this demonstration included those of a Navy destroyer, including the Bridge (Officer of the Deck and Conning Officer), Bridge Wing (Gun Direction Officer), Combat Information Center (CIC), Tactical Action Officer (TAO), Anti-submarine Warfare (ASW) Tactical Air Controller, Small Craft Attack Team (SCAT) / .50 caliber weapon stations, as well as a complete crew of an armed helicopter (Pilot, Airborne Tactical Operator (ATO) and Door Gunner).

Multiple software Game Engines/Image Generators were integrated across all visual systems, employing the popular gaming industry visual image generator of Unity 3D with

FIST2FAC during the April 2012 Sea Combat Commander Synthetic Training Functionality and Capability Phase 1 Test Demonstration





Examples of small, agile Fast Attack Craft (FAC) – Fast Inshore Attack Craft (FIAC)

those commonly found in military training devices. Also included were Bohemia Interactive's Visual Battlespace 2 (VBS2), Naval Warfare Development Command (NWDC) Joint Semi-Automated Forces (JSAF), and Naval Air Warfare Center Training Systems Division (NAWCTSD) helicopter simulator employing X-Plane Flight Simulation, all in one common FAC-FIAC scenario.

FIST2FAC supports the full spectrum of acquisition, from concept exploration in a standalone modeling and simulation environment, to developmental testing in a networked modeling and simulation environment, to proof of concept demonstrations in an operational modeling and simulation environment.