

THREE DIMENSIONAL (3D) VISUALIZATION

SPIDERS•3D is an easy-to-use browser based application on the NAVFAC Portal www.navfac.navy.mil that offers users a variety of ways to employ three dimensional (3D) visualization to better understand how new platforms could potentially impact facilities.

Historically, the collaboration process between new platform design teams and facility engineers & planners has been limited to multiple exchanges of



two dimensional (2D) weapon platform design data. This approach requires facilities engineers to perform “cut and paste” overlays between platform and facility data sets, providing limited capacity to ascertain spatial constraints between the platform and associated shore facilities.



Much like the advancements in ship and airframe design, NAVFAC has transitioned its traditional 2D representations of Navy waterfront facilities and infrastructure into 3D models.

SPIDERS•3D CAPABILITIES

- Provides a venue to test planning concepts and give context to discussions.
- Allows users to quickly create a variety of ship berthing and aircraft parking scenarios online at highly accurate virtual representations of Naval Installations worldwide. Users can virtually walk along a pier or inside the maintenance bay of a hangar.
- Offers a tremendous library of diverse 3D models for use including existing platforms as well as those being planned or currently in the acquisition pipeline. Users can visualize new weapon platforms as they would interact within an existing naval base environment.
- Affords multi-discipline working groups the ability to collectively collaborate in real-time within a spatially accurate, common virtual environment. Participants log in from their individual computers and communicate onscreen in real-time.

Innovation, Leadership, Performance

The Naval Facilities Engineering Command (NAVFAC) manages the planning, design, construction, contingency engineering, real estate, environmental, and public works support for U.S. Navy shore facilities around the world. We provide the Navy's forces with the operating, expeditionary, support and training base's they need. NAVFAC is a global organization with an annual volume of business in excess of \$18 billion. As a major Navy Systems Command and an integral member of the Navy and Marine Corps team, NAVFAC delivers timely and effective facilities engineering solutions worldwide. Additional updates and information about NAVFAC can be found on social media sites Facebook and Twitter. Become a Fan at <http://www.facebook.com/navfac> and follow us on <http://twitter.com/NAVFAC>.