

CASESTUDY

C4 INTEGRATED SYSTEMS



INNOVATIVE & STREAMLINED SOLUTIONS.

CHALLENGE

The Navy's UCLASS program will provide an Unmanned Aircraft (UA) capable of persistent surveillance with precision strike. This particular program will achieve operation and integration of manned systems with unmanned systems within its nuclear-powered aircraft carriers. Ultimately, it will contribute to increasing sea-based capacity across the spectrum of maritime and littoral missions. Our task was to modify an existing space on the carrier, which will need to be modified during each ship's availability period to accommodate the UCLASS Mission Control System and support mission planning and briefing.

SOLUTION

To streamline the room transformation during each carrier's availability period, the MIL C4IS team fabricated a full-scale mock-up of the UCLASS Mission Control Center, as well as operator workstations, racks, a video wall, and other parts for the carrier-segment design team. Because of the substantial size of the mock-up and limitations on available Government space, C4IS dedicated over 800 square feet of its facility to accommodate the mock-up. In addition, our team provided conference rooms and teleconference resources for weekly design meetings and reviews.

BENEFIT

The mock-up provides the design team with a full-scale replica of the UCLASS Mission Control Center, which facilitates design brainstorming, provides human factor engineers with inputs for ergonomic analysis. In addition, it evaluates design candidates, demonstrates design concepts to Navy sponsors, and assists ship installation planning.