Mission. Rapidly develop, integrate, demonstrate, exercise, and deliver innovative System of Systems (SoS) products and capabilities to the warfighter that meet current and emerging fleet requirements.

Unique Features. 23,000-SF building includes 10,000 SF of laboratory space, four secure laboratories focusing on weapons M&S, supporting network enabled weapons, mission gap product development, prototyping, horizontal integration (HI), and support for government lead system integration (LSI) roles.

WSCI brings warfighters together from the Navy, Marines, Air Force, Special Operations Forces (multi-service), and Coalition Forces.

- **Systems.** Intelligence, surveillance, reconnaissance (ISR), C^2, targeting, mission planning, fires cell
- **Distributed Connectivity Across Multiple DoD Sites**, **International Partners, Intel / National Laboratories, and DoD Contractors.** NAVSEA (Point Hueneme, Dahlgren), Space and Naval Warfare Systems Command (SPAWAR) (Charleston, San Diego), Edwards Air Force Base, Fort Irwin, Fort Huachuca, Aberdeen, Langley Air Force Base, Raytheon, and Lawrence Livermore Laboratories
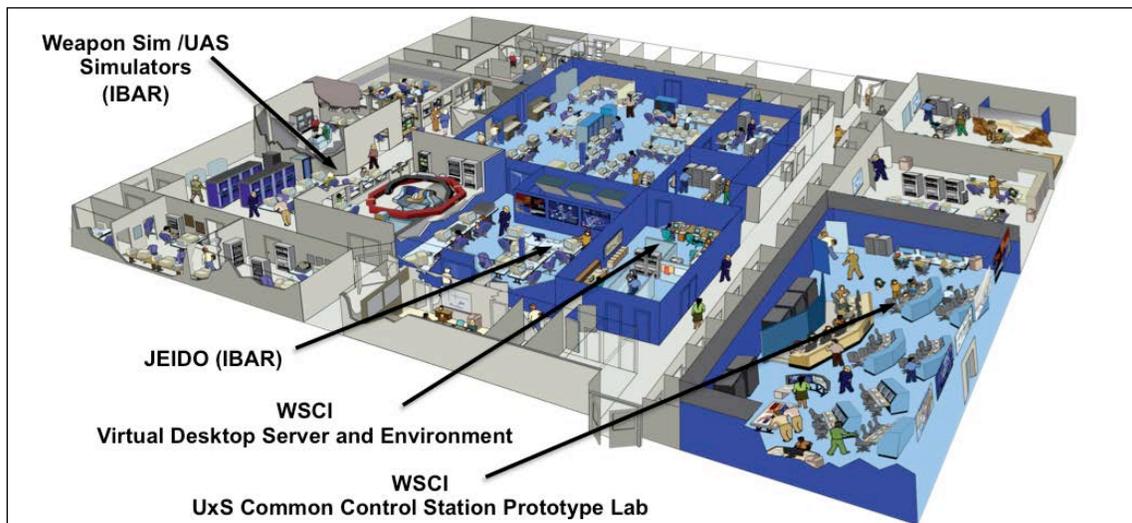
RDT&E Capabilities

System of Systems Engineering (SoSE)
- Cloud computing / tactical cloud experts
- Naval mission architecture expertise
- Sensor model and standards / specification development
  - Nationally recognized
- SME in close air support (CAS) systems development
- Systems engineering and requirements development
- System engineering / system engineering technical review (SE / SETR) program support
- Targeting and photogrammetry expertise and model validation
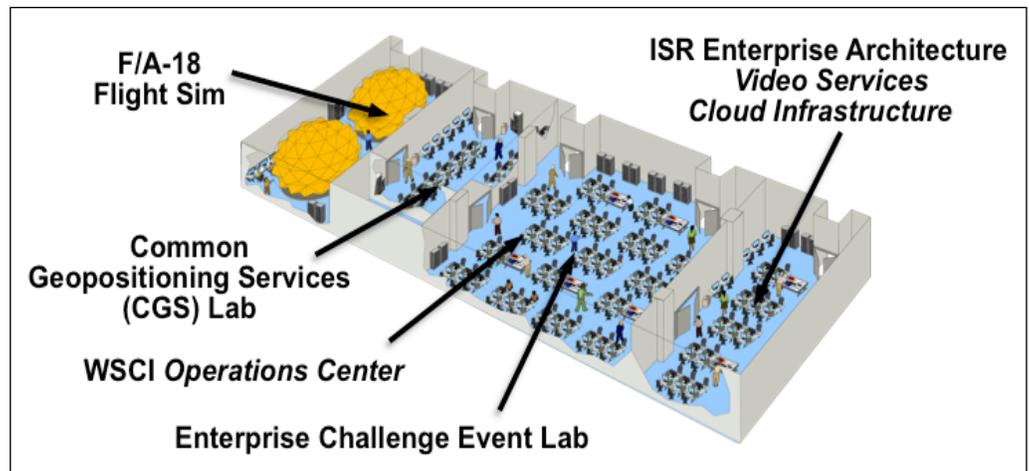

Prototype Software System Development and Deployment. Rapid development of software systems and architectures for targeting and situational awareness
- Android and I-Pad application development
- Products from inception to deployment and support into operational environment (shipboard and shore)
- Systems engineering tool development such as software reference model development
- Technology insertion into Programs of Record
- Service oriented architecture solutions in a warfighter environment
- Warfighter requirements to system delivery

Weapon Sim /UAS Simulators (IBAR)

JEIDO (IBAR)

WSCI Virtual Desktop Server and Environment

WSCI UxS Common Control Station Prototype Lab

WSCI and IBAR Complex

Exercise and Experimentation

- Enterprise Challenge and limited objective experimentation
- Fleet Experiment (FLEX) objective and execution
- Integration environment to support mission level product integration and interoperability (I&I) and gap analysis
- Laboratory and network architectures

Technology for Enhanced Warfighter Support

- Mobile platform application (iOS, Android)
- Advanced ISR concepts

F/A-18 E/F, EA-18G Tactical Operational Flight Trainer (TOFT). TOFT has a flat panel display and is the same trainer found in Lemoore, Oceana, and other major facilities. It comes with the simulated Joint Helmet Mounted Cueing System and it is selectable as EA-18G (Growler) or standard F/A-18E/F. It is the only Navy TOFT capable of multiple operational flight programs. TOFT is used for local aircrew qualification checks / training, mission rehearsal, and testing software prior to upgrades to TOFTs; it also helps in characterizing fleet reported bugs for the contractor to fix.

Annual Test Events

- Common control station integration testing
- Enterprise Challenge
- Valiant Shield and other fleet exercises
- Synthetic guidance hardware in the loop demonstrations

I&I Laboratories. Laboratories are spacious and well equipped, hosting NAWCWD programs and virtual environments.

- Rapid, flexible, reconfigurable, networked environment
- Full spectrum live, virtual, and constructive (LVC) environment supporting integrated warfighter capability
- Rapid network engineering through IBAR and RDT&E support

Main Laboratories

- Common Geopositioning Services Laboratories
- Enterprise Challenge Event Laboratory
- ISR Enterprise Architecture Laboratory
- Synthetic Guidance Demonstration Laboratory
- UxS Common Control Station (CCS) Prototype Laboratory

Size / Scope. 23,000-SF building includes 10,000 SF of laboratory space. **Annual Events:** 20+. **Plant Value:** $8M+.