# NAWCAD Industry Day

## 12 OCTOBER 2022

Prepared for: INDUSTRY

Presented by: CHRISTIAN J. UTARA

# NAWCAD WOLF Primary Functions

The Naval Air Warfare Center Aircraft Division (NAWCAD) Webster Outlying Field (WOLF):

- Develops **integrated** interoperable quality products.
- Designs, prototypes, develops, integrates, installs, modernizes, and provides engineering life cycle support.
- Develops new approaches to integrated off-the-shelf technology/organically-developed products and accelerates transition of critical technology to solve challenging engineering problems.
- Provides project engineering and **organic Lead Systems Integrator** (oLSI) expertise.
- Performs **rapid development**, **rapid prototyping**, innovation, and limited production in support of our customers.


oLSI
organic Lead Systems Integrator

# What is oLSI?

**A unique approach to delivering products to the warfighter**

- The Government serves as the organic product developer and the lead systems integrator.
- The Government retains all rights.
- The Government collaborates with Industry partners to achieve “best of breed” and those Industry partners are critical to success.

**oLSI Benefits**

- Government-owned
- Cost effective
- Rapidly-delivered as most projects are of a two-year duration (or less)

oLSI
organic Lead Systems Integrator

# NAWCAD WOLF oLSI Overview

## Customer


Requirements and Funding

Mods, Changes, and Negotiations

Reporting

Accountability & Products

## NAWCAD WOLF oLSI

Oversight

Systems Engineering

Project Management

Make or Buy

Reporting

Deliverables Sub-products

## NAWCAD WOLF

Government Engineering → Teams

In-house Capabilities → Capabilities

Service Contracts → Sub-Contractors

Hardware Contracts → BPA, DLA, ODC

Commodity Purchases → NAVICP, Credit Card

# Who is NAWCAD WOLF?

Legend
Direct Line Authority via ECH II/III

## Executive Leadership

**Executive Director (TW00000)**
Mr. Christian Utara (SSTM)

**Executive Assistant**
Ms. Amberly Kelley

**Military Director (TWB0000)**
CAPT Walter (Beau) Massenburg

**Director of Business Operations (TWD0000)**
Mr. Timothy Hickey

- Technical Director (TWE0000) Mr. Dave Hager
- S & T Director (TWT0000) Mr. Rick Young
- Organic Product Development Lead (TWX0000) Mr. Joe Bailey
- Technical Initiatives & Strategy Director (TWY0000) Mr. Israel Jordan

## Business & Support Operations

- Rapid Acquisition Lead Ms. Rhiana Haney
- Compliance Lead Ms. Colette Damon
- IT / Laboratory Support Lead Ms. Jennifer Marbourg-Miller
- Engineering & Prototype Shop Lead Mr. Ryan Bean
- Facilities and Infrastructure Mr. Scott Porter
- Public Affairs Officer Ms. Christine Trent
- Director of Planning & Operations (TWD0000) Ms. Cindy Morgan
- Organizational & Workforce Development Lead (TWD0000) Dr. Melissa Denihan
- Operations Manager Ms. Kelly Weiner
- Support Staff

## Support Organizations

- Business & Financial Lead Mr. Trinity Phillips
- Security/COMSEC Coordinator Mr. Andre Smith
- Human Capital Consultants Ms. Hope Lane, Ms. Leisha Wood, Ms. Myla Somerville
- Safety Coordinator Mr. Tom Karcher
- Procurement Group
- Legal Counsel Lead Mr. Garrett Unger (Acting)
- Comptroller Liaisons Ms. Kim Carter, Ms. Robin Gates, Ms. Annette Hemming, Ms. Victoria Sherr

## Portfolio Leadership

- Portfolio Lead PEO A, PEO T, PEO JSF, PEO CS (TW31000) Mr. Devin Rubinsky
- Portfolio Lead PEO U&W, AIRWorks, ECH II/III (TW32000) Mr. Eric Bryan

## Strategic Leadership

- AIRBORNE SYSTEMS INTEGRATION DIVISION (TW11000) Mr. Tim Tennyson, Division Director; Mr. Daniel Cell, Chief Engineer
- COMBAT INTEGRATION & ID SYSTEMS DIVISION (TW12000) Mr. Jon Wilt, Division Director; Mr. Paul Wainwright, Chief Engineer
- SHIP & AIR INTEGRATED WARFARE DIVISION (TW13000) Mr. Bernie Dombrosky, Division Director; Mr. Edward Morgan, Chief Engineer
- SPECIAL COMMS MISSION SOLUTIONS DIVISION (TW14000) Mr. Doug Hosea, Division Director; Mr. William Stack, Chief Engineer
- INTEGRATED C2 & INTEL SYSTEMS DIVISION (TW15000) Mr. James Taylor, Division Director; Mr. Gabriel Pankhurst, Chief Engineer
- AIR TRAFFIC CONTROL & LANDING SYSTEMS DIVISION (TW16000) Mr. Barrett Straub, Division Director; Ms. Marta Bierria, Chief Engineer

## Command Action Teams

- Professional Developmental Committee (PDC) Co-Leads: Ms. Megan Elliott, Mr. Edward Gesser, Mr. Dillon Mandley
- Supervisory Resource Group (SRG) Lead: Mr. Andrew Barger
- Women's Initiative Network (WIN) Lead: Ms. Rhiana Haney
- African-American Pipelines Action Team (APAT) Lead: Mr. Israel Jordan

## Tactical Leadership

- IRREGULAR AIR PLATFORMS (TW11100) Mr. Kellner
- ADVANCED TECHNOLOGY INTEGRATION (TW11200) Mr. Lynch
- MISSION SYSTEMS ENG (TW11300) Mr. Pappas
- MULTI-MISSION DATA LINK SYS ENG (TW11400) Mr. Scruitsky
- CID PROCESSING ENG & SUSTAINMENT (TW12100) Mr. Wickline
- COMBAT ID/ATC FLEET INTEGRATION (TW12200) Mr. O'Dell
- CID TRANSPONDER & INTERROGATOR ENG (TW12300) Mr. Buff
- C-UAS ENG, INTEGRATION & SUSTAINMENT (TW12400) Mr. Treat
- COMMS SYSTEMS ENG (TW13100) Mr. Channell
- COMBAT SYSTEMS ENG & INTEGRATION (TW13200) Mr. Broom
- UxS SYS ENG & INTEGRATION (TW13300) Mr. Mason
- FLEET SUPPORT ENG & SUSTAINMENT (TW13400) Mr. Burch
- CRISIS RESPONSE & INTEROPERABLE COMMS SYSTEMS (TW14100) Mr. Wasinchism
- MOBILE/DEPLOYABLE SYSTEMS ENG & INTEGRATION (TW14200) Mr. Davis
- SOF C5ISR SYSTEMS ENG (TW14300) Mr. Barger
- SYS INTEGRATION & SUSTAINMENT (TW14400) Mr. Trifone
- ENG LOGISTICS & LIFECYCLE MGMT (TW14500) Mr. Metcalf
- JOINT INTELLIGENCE SYSTEMS (TW15100) Mr. Supplee
- NETWORK ENG & OPS CENTERS (TW15200) Mr. Shuman
- STRATEGIC PLATFORM COMMUNICATIONS (TW15300) Vacant
- ISR SYSTEMS ENGINEERING (TW15400) Mr. Hood
- LANDING SYSTEMS (TW16100) Mr. Andersen
- APPROACH SYSTEMS (TW16200) Ms. Mead
- AREA CONTROL SYS (TW16300) Ms. Passfeld
- ATC FLEET SUSTAINMENT (TW16400) Mr. Shade
- ATC MODELING & SIM (TW16500) Mr. Diaduk
- ATC SYSTEMS ENG (TW16600) Ms. Lott
- SHIPBOARD ATC SYS (TW16700) Mr. Chapman

# NAWCAD WOLF Core Capabilities

# NAWCAD WOLF Operations

**oLSI**

Engineering Development | Fabrication and Integration | Systems Testing | System Installation and Verification | Operational Support

## Personnel and Facilities

- 567 Civil Service Employees (with students)
- 10 Military
- 3,534 CSS / Non-CSS
- 60 Buildings
- 32 Labs

TOTAL FOOTPRINT:
665,177 sq.ft.

72 contract vehicles with a value $5.671B

## Core Functional Capabilities

- Airborne Systems Integration
- Combat Integration and Identification Systems
- Ship and Air Integrated Warfare
- Special Communications Mission Solutions
- Integrated Command, Control & Intelligence Systems
- Air Traffic Control and Landing Systems

## oLSI Deliveries FY22

- **Large Scale** - system of systems integrations involving 20 or more systems: 7
- **Medium Scale** - system of systems integrations involving less than 20 systems: 450
- **Small Scale** - integration of a single system: 262
- **Manufactured Items** - 21,337
- **Total: 22,056**

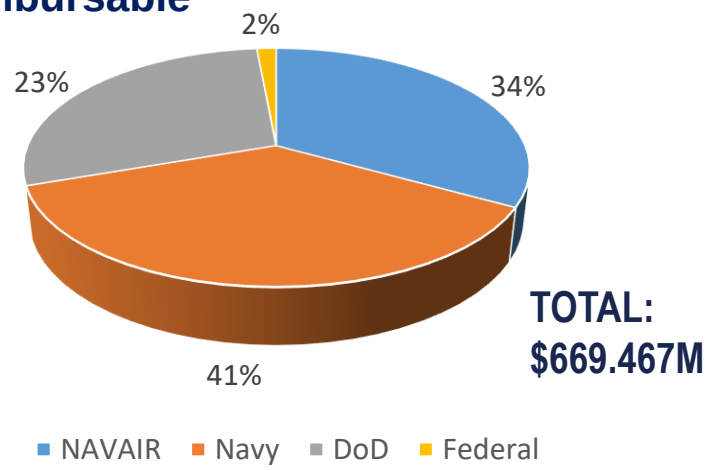
## Rapid Development Systems Engineering

- Manned and Unmanned ISR
- Emerging Technology Integration
- Cyber Warfare Solutions
- Mobile / Deployable C5ISR
- Shipboard Integration
- Engineering Prototyping

Data as of: September 2022

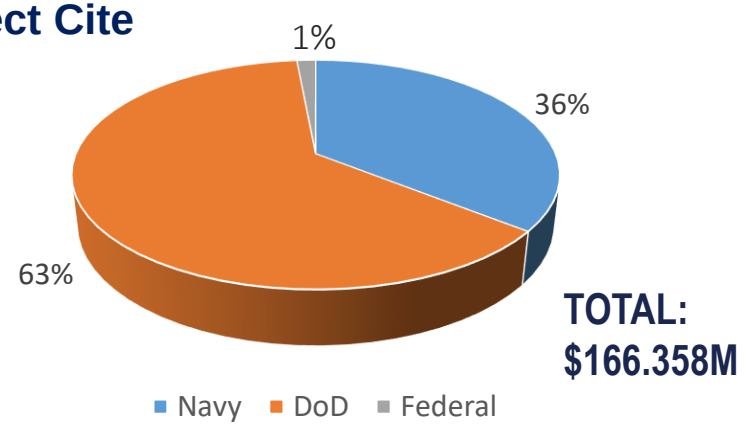
# NAWCAD WOLF FY21 Funding Portfolio

## Reimbursable



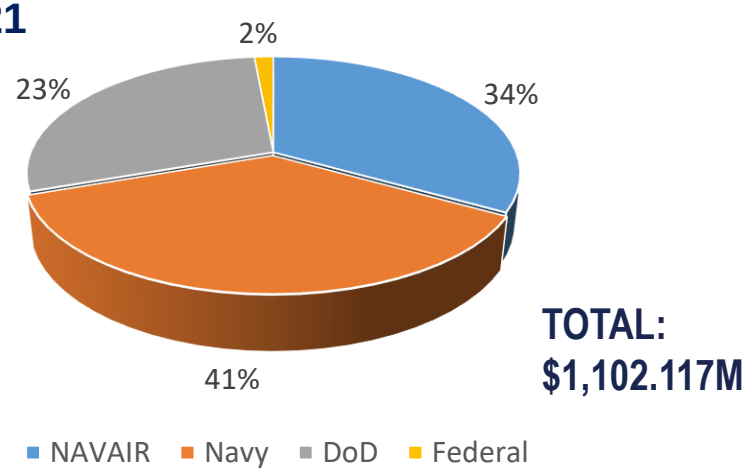

**TOTAL: $669.467M**

## Direct Cite




**TOTAL: $166.358M**

## FY21




**TOTAL: $1,102.117M**

****Does not include TWX funding**

## FY21 Funding Profile

**Line of Accounting: $24.495M**

**Direct Fund: $241.332M**

**OVERALL TOTAL:**

**Reimbursable + Direct Cite + Line of Accounting + Direct Fund = $1,102.117M**

Data as of: 30 Sep 2021

# NAWCAD WOLF's Major Sponsors

## Naval Air Systems Command

PEO (Common Systems)

- PMA-209 Air Combat Electronics

PEO (A) AIR ASW, Assault & Special Mission Programs

- PMA-261 Heavy Lift Helicopters
- PMA-271 Airborne Strategic Command, Control and Communications
- PMA-274 Presidential Helicopters
- PMA-275 V-22 Joint Program Office
- PMA-276 Light Attack Helicopters
- PMA-299 Multi-mission Helicopters

PEO (T) Tactical Aircraft Programs

- PMA-213 Naval Air Traffic Management Systems
- PMA-231 E-2/C-2 Airborne Command and Control Systems
- PMA-265 F/A-18 & EA-18G

PEO (U&W) Unmanned Aviation & Strike Weapons

- PMA-201 Precision Strike Weapons
- PMA-208 Aerial Targets
- PMA-263 Small Tactical UAS
- PMA-266 Multi-mission Tactical UAS
- PMA-268 Unmanned Carrier Aviation
- PMA-281 Strike Planning and Execution Systems

PEO (JSF) Joint Strike Fighter

Naval Air Warfare Center – Aircraft Division

- AIRWorks

Commander Fleet Readiness Center (COMFRC)

## Other Naval Services

Commander, U.S. Pacific Fleet (USPACFLT)

Naval Special Warfare Command

Naval Surface Warfare Center

Naval Information Warfare Systems Command

- PEO Command, Control, Communications, Computers and Intelligence (C4I)
- PEO Digital Enterprise Services

Naval Facilities Command

Naval Sea Systems Command

- PEO Integrated Warfare Systems (IWS)
- PEO Unmanned and Small Surface Combatants
  - PMS 495 Mine Warfare
  - PMS 501 Littoral Combat Ship (LCS)

Office of Naval Intelligence

Marine Corps

- USMC Systems Command
- Marine Corps Intelligence Activity

## Other DoD

National Guard Bureau

Office of the Secretary of Defense

- Defense Information Systems Agency
- White House Communications Agency
- Defense Intelligence Agency
- Missile Defense Agency

U.S. Air Force

U.S. Army

U.S. Central Command

U.S. European command

U.S. Joint Forces Command

U.S. Southern Command

U.S. Special Operations Command

## Non-DoD

Department of Homeland Security

US Coast Guard

Data as of: August 2022

# Upcoming Contract Opportunities

# NAWCAD WOLF

- Material Handling
  - Competitive follow-on to N00421-20-F-3001
  - Scope: Provide material handling receipt and distribution services to assist in meeting diverse rapid response mission requirements of NAWCAD WOLF.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | $10-$50M | SeaPort | TBD | FY24 QTR2 | FY24 QTR2 | FY24 QTR4 | R706/ 541330 | TBD |

# NAWCAD WOLF (cont)

- Engineering, Prototyping, and Fabrication Shop (EPF)
  - Competitive follow-on to N00421-19-D-0043
  - Scope: Provides full scale “Design for Manufacture” mechanical facilities support services to include engineering, prototyping, and fabrication efforts to assist in meeting diverse rapid response mission requirements.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | $10-$50M | SA IDIQ | TBD | FY23 QTR3 | FY23 QTR3 | FY24 QTR1 | L099/ 541330 | TBD |

# Airborne Systems Integration (ASI) Division

- Multi-Mission Data Link (MMDL)
  - Competitive follow-on to N00421-18-D-0001
  - Scope: Provide technical, engineering, integration, test, and acquisition services for the Light Airborne Multipurpose System (LAMPS) MK III, similar data links, and digital voice logging recorders, as well as Counter-Unmanned Aerial Systems and collision avoidance systems.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | >$100M | SA IDIQ | TBD | FY24 QTR1 | FY24 QTR1 | FY24 QTR3 | K058/ 541330 | TBD |

# Ship & Air Integrated Warfare (SAIW) Division

- Technical Engineering Services (TES)
  - Competitive follow-on to N00421-18-D-0030 & 47QFPA19F0062
  - Scope: Provide advanced research and development support, engineering and technical support, quality management support, cybersecurity services, and technical management support of final end item products. Engineering and technical services may be applied to: military and commercial radio communication systems, information and computer network systems, Command and Control systems, automatic identification technical systems, integrated document management systems, multimedia systems, embedded and stand-alone sensors systems, unmanned aerial systems, and cybersecurity.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | >$100M | SeaPort | TBD | FY23 QTR2 | FY23 QTR2 | FY23 QTR4 | AC13/ 541330 | Unrestricted |

# SAIW Division (cont)

- Mission Systems Engineering (MSE)
  - Competitive follow-on to N00421-19-D-0002
  - Scope: Provide requirements definition, emerging technologies identification, rapid design engineering, drawing package support, development, customization, manufacturing, fabrication, integration, Test & Evaluation (T&E), installation, certification, maintenance/upgrade, logistics, software development and In-Service Engineering Agent (ISEA) activities of new and/or existing shipboard, surface, ground-based, and airborne systems.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | $10M-$50M | SA IDIQ | TBD | FY23 QTR2 | FY23 QTR2 | FY23 QTR4 | AC13/ 541330 | Unrestricted |

# SAIW Division (cont)

- Communication Systems Integration Support (CSIS)
  - Competitive follow-on to N00421-19-D-0047
  - Scope: Provides local integration support, advanced research and development support, engineering and technical support, logistical and quality management support, and technical management support of final end item products supporting PEO Ships, NAVSEA, NAVAIR, PEO C4I, and other Federal agencies in C4I programs.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 6 YRS | >$100M | SA IDIQ | TBD | FY24 QTR2 | FY24 QTR2 | FY24 QTR4 | K058/ 541330 | TBD |

# Special Communications Mission Solutions (SCMS) Division

- Crisis Response & Interoperable C4 Systems (CRIC)
  - Competitive follow-on to 47QFCA18F0058
  - Scope: Provide services to develop full range of CRIC-ES solutions and products to facilitate communications and knowledge transfer at crisis locations worldwide.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | >$100M | SA IDIQ | TBD | FY23 QTR1 | FY23 QTR1 | FY23 QTR3 | N059/ 541330 | Unrestricted |

# SCMS Division (cont)

- Special Operations Forces (SOF) C4 Mission Solutions Procurement
  - Competitive follow-on to N00421-19-D-0055
  - Scope: Rapid design, fabrication, installation, and fielding of SOF C4ISR systems and capability enhancements via technologically derived solutions. Requirements refinement, design, testing, integration, prototyping, training, fielding, and programmatic support. Specifically: Technical Engineering Installation and Testing; Interoperable and SOF unique technology and communications systems. Transition of SOF unique C4ISR technologies to general services.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | $50 - $100M | SA IDIQ | TBD | FY23 QTR2 | FY23 QTR3 | FY24 QTR1 | K058/ 541330 | TBD |

# SCMS Division (cont)

- Deployed Mission Systems (DMS)
  - Competitive follow-on to N00421-19-D-0077
  - Scope: Provide technical, engineering, operations and maintenance support for forward deployed mission OCONUS fielded C-E equipment/systems and subsystems supporting OCONUS military units and operations.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | $50 - $100M | C-Type | TBD | FY23 QTR3 | FY23 QTR4 | FY24 QTR2 | TBD/ 541330 | TBD |

# Air Traffic Control & Landing Systems (ATC&LS) Division

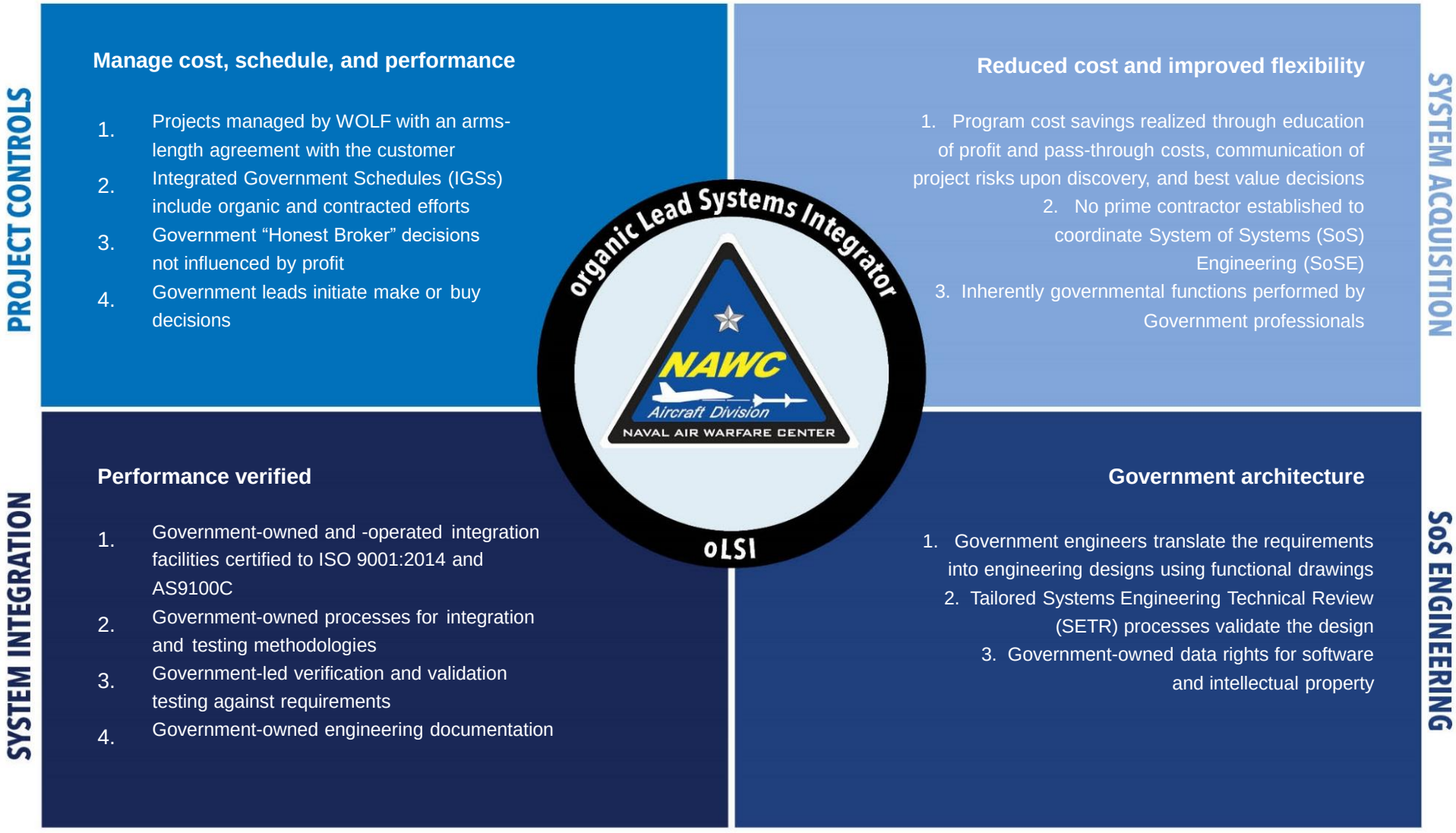
- ATC&LS Operations Onboard Navy Ship and Shore Based Sites (AOOSS)
  - Competitive follow-on to N00421-19-D-0001
  - Scope: Provides technical and engineering services for various systems and subsystems such as: Fleet Support Services; Equipment Improvement Program Services; Technical Support Services; ATC&LS Software Support; Test Bed Services; Repair, Fabrication, & Restoration Services; and ATC&LS Training Services.

| PoP | Notional Value | Projected Acquisition Strategy | Approved Acquisition Strategy | Projected Draft RFP Release | Projected Final RFP Release | Projected Contract Award | PSC/ NAICS | Socio-Economic Set Aside or Designation |
|---|---|---|---|---|---|---|---|---|
| 5 YRS | >$100M | SA IDIQ | TBD | FY23 QTR1 | FY23 QTR1 | FY23 QTR3 | J059/ 541330 | Unrestricted |

# Questions?

# Backup

# NAWCAD WOLF oLSI Approach




**Manage cost, schedule, and performance**

1. Projects managed by WOLF with an arms-length agreement with the customer
2. Integrated Government Schedules (IGSs) include organic and contracted efforts
3. Government "Honest Broker" decisions not influenced by profit
4. Government leads initiate make or buy decisions

**Reduced cost and improved flexibility**

1. Program cost savings realized through education of profit and pass-through costs, communication of project risks upon discovery, and best value decisions
2. No prime contractor established to coordinate System of Systems (SoS) Engineering (SoSE)
3. Inherently governmental functions performed by Government professionals

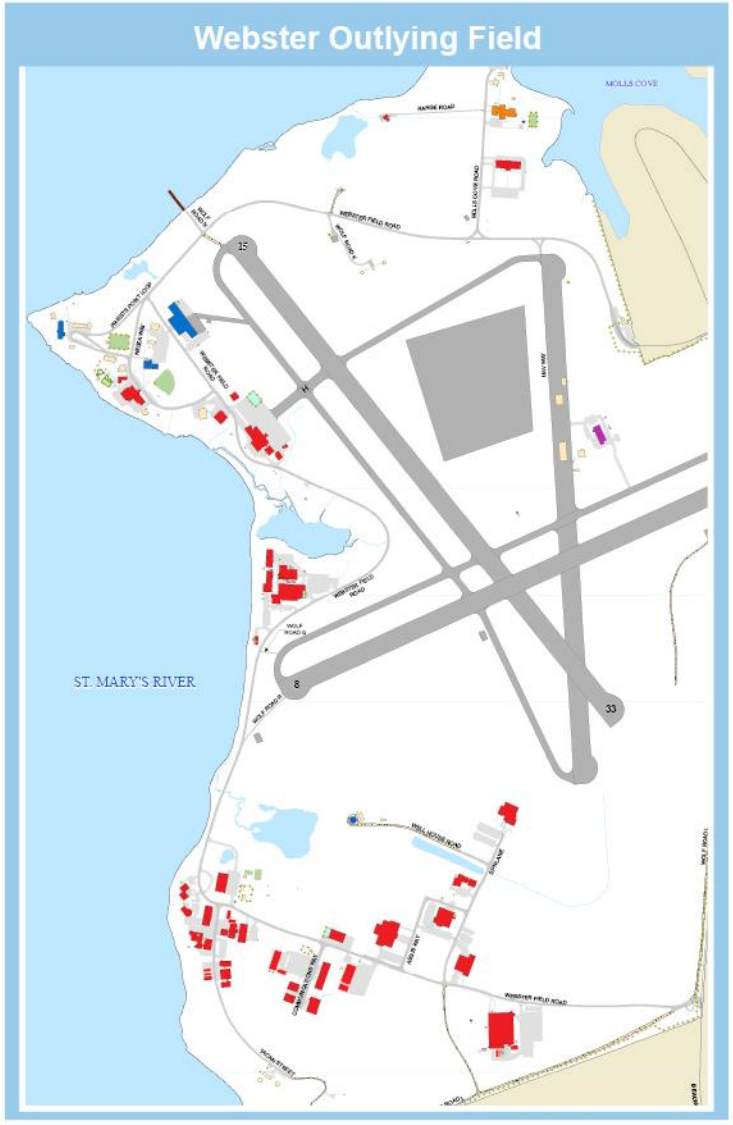
**Performance verified**

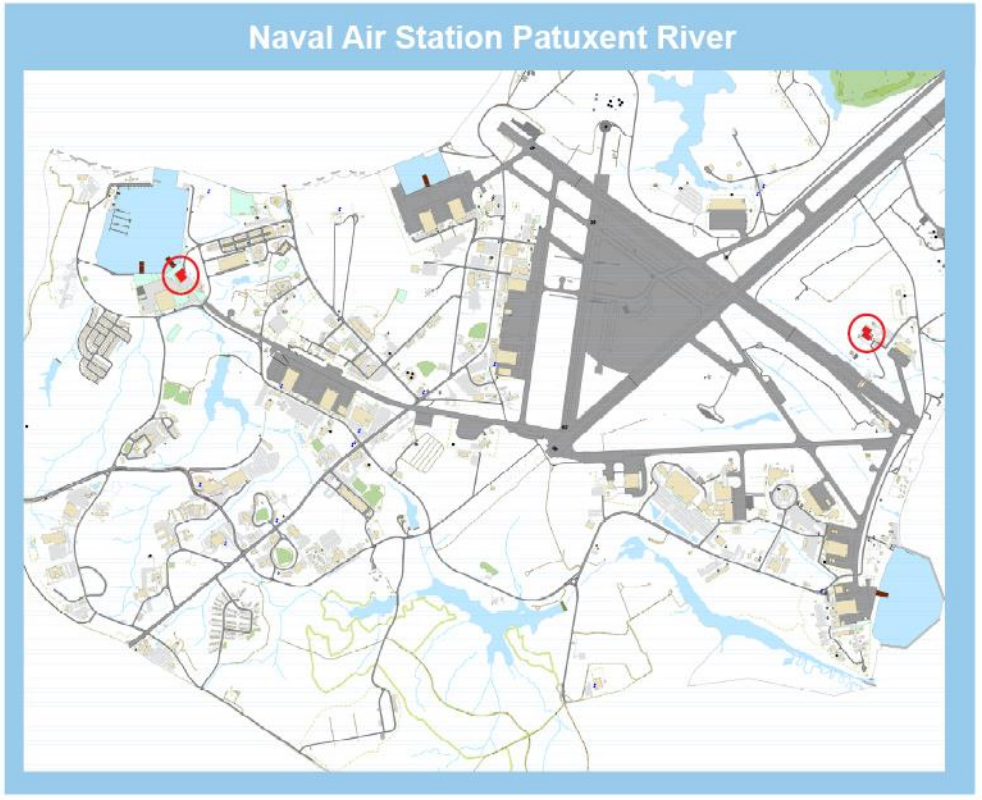
1. Government-owned and -operated integration facilities certified to ISO 9001:2014 and AS9100C
2. Government-owned processes for integration and testing methodologies
3. Government-led verification and validation testing against requirements
4. Government-owned engineering documentation

**Government architecture**

1. Government engineers translate the requirements into engineering designs using functional drawings
2. Tailored Systems Engineering Technical Review (SETR) processes validate the design
3. Government-owned data rights for software and intellectual property

# NAWCAD WOLF Primary Operating Facilities



# NAWCAD WOLF Footprint


## CONUS

**California**
San Diego

**Florida**
Jacksonville | Tampa | Orlando

**Maryland**
Patuxent River | St. Inigoes

**Mississippi**
Pascagoula

**North Carolina**
Fayetteville | Spring Lake

**Virginia**
Arlington | Chesapeake | Norfolk

**Washington, D.C.**

## OCONUS

**Germany**
Stuttgart

# WOLF Divisions

## Airborne Systems Integration (ASI)

- Airborne Mission Systems engineering and integration
- Technology development and transition
- Multi-Mission Data Link Systems
- Product engineering, development, and production
- Life cycle engineering and sustainment

## Combat Integration & Identification Systems (CI&IDS)

- Fleet shipboard and shore system installation (AIT)
- Combat ID transponder and interrogator depot repair
- Digital Signal and Data Processing
- Aircraft IFF Integration
- AIMS Certification and IFF Frequency Assignment
- Model Based System Engineering
- Life cycle engineering and sustainment

## Ship & Air Integrated Warfare (SAIW)

- Air/Ship Engineering and Integration
- Fleet Shipboard and Shore System Installation (AIT)
- Shipboard C4I and Mission Package Engineering
- Product Engineering, Development, and Production
- Life cycle engineering and sustainment

# WOLF Divisions (cont)

## Special Communications Mission Solutions (SCMS)

- Crisis Response and Interoperability Communications
- SOF C5ISR Systems Engineering
- Mobile/Deployable Systems Engineering & Integration
- Systems Integration and Sustainment
- Engineering Logistics and Life cycle Management

## Integrated Command, Control & Intel Systems (IC2&IS)

- Government facilities, labs, networks and test equipment to support system development up to the TS/SCI level
- Tailored Systems Engineering and Project Management processes specializing in classified organic LSI projects
- CONUS/OCONUS integration, fielding, and testing teams throughout all AORs

## Air Traffic Control & Landing Systems (ATC&LS)

- Cradle-to-grave support for ATC&LS in military operational environments.
- Shipboard ATC and Landing Systems Capabilities
- Shore and Expeditionary ATC&LS Capabilities
- Naval Avionics Platform Integration Emulator (NAPIE)