



**CRANE REGIONAL
DEFENSE GROUP**



CONNECT TO MISSION: C2M

Featuring NSWC Crane:
Global Deterrence and Defense Department



Crane Regional Defense Group

Featuring NSWC Crane: Global Deterrence and Defense Department

Connect to Mission | June 6, 2023



Crane Regional Defense Group

Our Mission: To elevate the strategic value of Crane and expand southern Indiana's defense innovation ecosystem through defense-related outreach and legislative initiatives that enhance military missions in the region.

Our Objectives:

Educate & Inform - Educate and inform the business, citizens, and governments of the region about the economic and cultural benefits of a strong military presence in the region and the importance of the related regional infrastructure.

Promote Defense - Serve as a catalyst to promote defense ecosystem assets within NSA Crane and throughout the Indiana Uplands region.

Stimulate Relationships - Through the diversity of the membership, coordinate with various entities who have similar interests in maintaining a healthy and stable community, economy, and DOD installations in our region.



Crane Regional Defense Group



Congressional Reception



Connect to Crane



2022 State of the Installation



Key Leader Series



Visit to Pentagon

AGENDA

- Opening Comments : *Dr. Angela Lewis, Technical Director*
- Global Deterrence and Defense : *Mr. James Ross (SSTM), Department Director*
- Division Manager Panel : *Mr. Brian Stuffle, Chief Strategist*
- Networking Break
- Specialized Topics : *Mr. James Ross & Mr. Andrew Kluesner, Deputy Director*
- Networking Break
- Acquisition Approach Panel : *Ms. Nancy Maloy, Technical Acquisition Deputy*
- NavalX Midwest Tech Bridge : *Anne Fields Lucas, Regional Director*
- Closing Comments
- Networking: *Join PRF for their First Tuesday Event!*



Dr. Angela Lewis (SES)

Technical Director, NSWCrane



Mr. James Ross (SSTM)

Department Director, Global Deterrence & Defense



Global Deterrence & Defense Department Overview



*CAPT Duncan McKay, USN
Commanding Officer*



*Dr. Angela Lewis, SES
Technical Director*

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Strategic Missions Center

Strategic Missions encompasses the full range of Department of Defense activities that alter an adversary's will and ability to attack the United States and its interests.



DETER. DEFEND. DEFEAT.



Strategic Missions Thrust Areas



- ✓ **Trusted Electronics**
 - ✓ DoD Trusted Microelectronics Leadership
 - ✓ Microelectronics Innovation
 - ✓ Hardware Cybersecurity
- ✓ **Nuclear Modernization**
 - ✓ Navy Leadership
 - ✓ Air Force Leadership
 - ✓ Triad Coverage
- ✓ **Hypersonics**
 - ✓ Underwater Test/Launch Capabilities
 - ✓ Hardware-In-The-Loop (HWIL)
 - ✓ JHTO SEFA

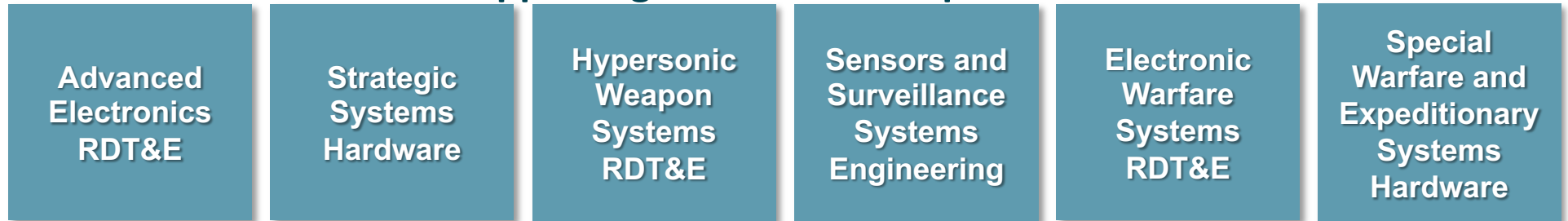


Department Overview

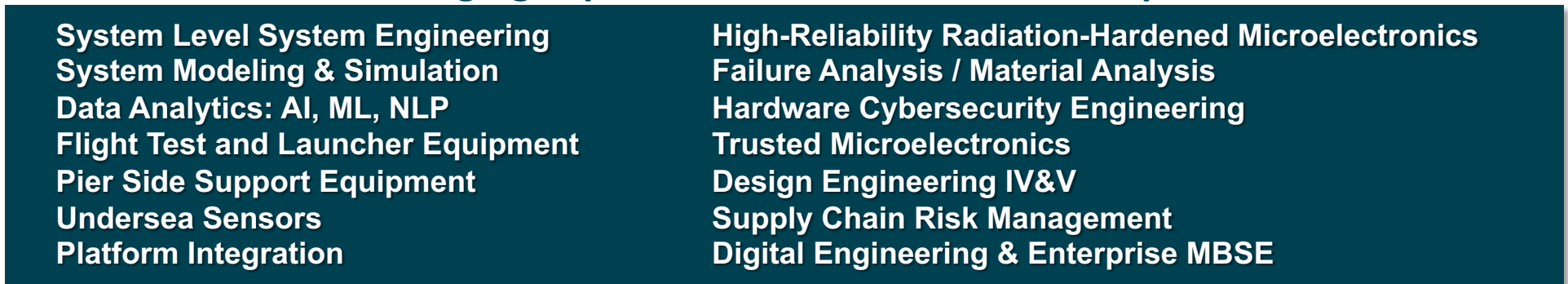
Five Divisions



Supporting Six Technical Capabilities



Leveraging Expertise In Critical Areas of Discipline



Strategic Missions Focused



Critical Roles

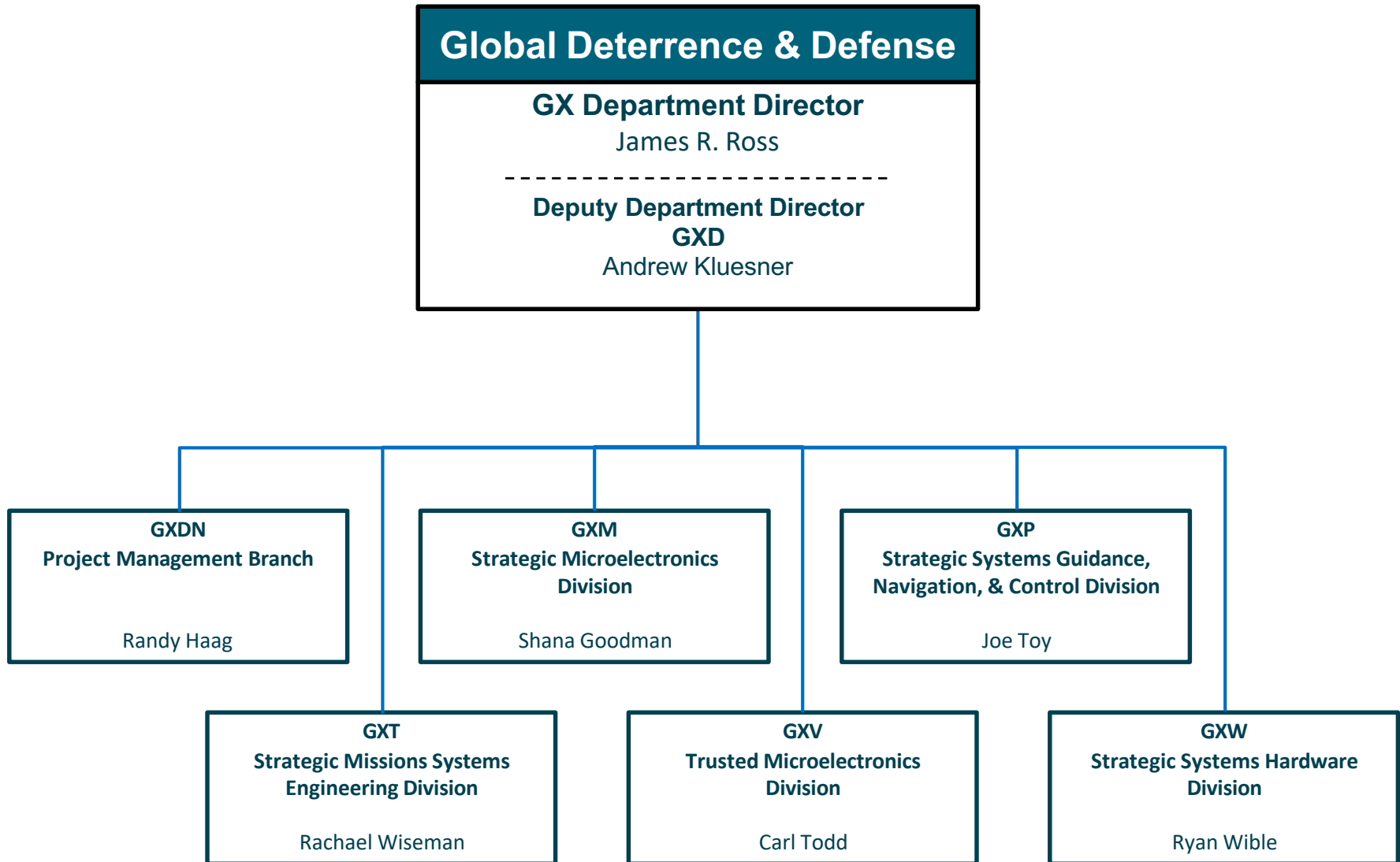
- DoD Executive Agent & Technical Warrant Holder for Printed Circuit Board Technologies
- Joint Federated Assurance Center Hardware Assurance Lead for DoD and also for the Navy
- DoN S&T Lead for Anti-tamper
- Naval Sea Systems Command Anti-tamper Technical Warrant Holder
- Deputy Chair, Naval Sea Systems Command Counterfeit Materiel Prevention Policy Integrated Product Team
- Chair Strategic Rad Hard Electronics Council
- NAVSEA Warfare Center Knowledge Point Champion for Hypersonics, Cybersecurity, Trusted Electronics
- Technical Execution Lead for Strategic Rad Hard **Electronics Council** Trusted & Assured Microelectronics
- Navy Representative for Defense Microelectronics Cross-Functional Team
- NAVSEA Technical Warrant Holder for Electronics
- **Radio Frequency & Optoelectronics**



National Leadership



NSWC Crane Division



Division Manager Panel

*Facilitator: Mr. Brian Stuffle, Chief Strategist,
Global Deterrence & Defense*



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Global Department Connect to Mission

Presented by: Shana Goodman



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Commanding Officer

Dr. Angela Lewis, SES
Technical Director



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Strategic Microelectronics Division

- Radiation Test & Evaluation
- Modeling of Radiation Effects
- Radiation Transport
- Analog & Digital Design
- Electrical Test & Evaluation
- Environmental Test
- Construction Analysis
- Failure Analysis
- Material Analysis
- Parts Management

SeaPort Task Orders :

- N0016419F3009 – Amentum
 - End Date 7/24/2024
 - Planned Follow-on award date: 5/24/2024

DTIC Task orders:

- P1-22-2403 – Upcoming Contract
 - Industry Day held 5/9/2023
 - Planned Solicitation NLT 5/31/2023
 - Planned Award NLT 11/1/2023

NSWC Crane is the Largest Government Source of High Reliability - Radiation Hardened Strategic Hardware Capabilities

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Presented by: Carl Todd



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Dr. Angela Lewis, SES
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Trusted Microelectronics Division

- Microelectronics Counterfeit Detection & Policy Development
 - Obsolescence Risk Management
 - System Security Engineering
 - Anti-tamper Hardware Assessments
 - Foreign Military Exploitation
 - Design Assurance & Design Verification and Validation for ASIC/FPGA
 - Supply Chain Risk Management/Supply Chain Illumination
 - JFAC Hardware Assurance
 - Program Protection Planning
- SeaPort Task Orders:
- N0016419F3009 – Amentum
 - End Date 7/24/2024
 - Planned Follow-on award date: 5/18/2024
- DTIC contracts:
- P1-22-2445 – Follow-On Contract
 - Planned award date: 09/15/2023

NSWC Crane provides Engineering & Sustainment Expertise focused on Trusted Microelectronics for Strategic & High Reliability Systems

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Presented by: Joseph Toy



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- Strategic Systems Trusted Agent
 - Guidance Subsystem - HWIL
 - Fire Control Subsystem
 - Navigation Subsystem
 - Missile Subsystem
- Equipment Logistics Management
 - Calibration
 - Test & Measurement Equip
for Ohio/Vanguard &
Columbia/Dreadnaught
- Undersea Sensors
 - Surface Ship ASW
 - Submarine
 - Weapon Subsystem

Contracts Expected Within Next 24 Months:

- OTA Environmental Simulation Hardware in the Loop (HWIL)
 - New Contract
 - Planned award date: 7/30/2023
- GXP-25-6998; Strategic System Program's (SSP) Trident II D5 Life Extension (D5LE) Test Support
 - New Contract
 - Planned award date: 08/01/2025
- GXP-23-8145; TR-343 Transducer Repair Kits
 - New Contract
 - Planned award date: 8/01/2024
- N0016419F3001 – Undersea Sensors Support
 - End Date 4/09/2024
 - Planned Follow-on award date: 2/09/2024
- N0016419DGP51 TR-343 Connectorization Kits Follow-On
 - End Date: 9/26/24
 - Planned Follow-on award date: 8/01/2024

**NSWC Crane Provides Full Life Cycle Support
To Navy Strategic Guidance and Shipboard Systems**

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Global Department Connect to Mission

Presented by: Andrew Figg



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Dr. Angela Lewis, SES
Technical Director



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Strategic Missions Systems Engineering Division

- Systems Life Cycle Integration
- System Level Modeling & Simulation
- Test Verification & Validation(V&V)
- Requirements & Interface Management
- Product Data Management
- Model Based System Engineering (MBSE)
- Data Analytics, Artificial Intelligence, Machine Learning, & Natural Language Processing
- Electronic Security Systems
- Nuclear Weapons Surety
- Augmented Reality & Virtual Reality (AR/VR)
- Metrology and Laser Scanning/LiDAR
- Reliability, Availability, & Maintainability (RAM)
- Independent Quality Assurance Inspection

SeaPort Task Orders:

- N0016422F3002 – SAIC - ESS
 - End Date 2/15/2027
 - Planned Follow-on award date: 11/01/2026
 - Possibly re-scoped due to emergent tasking
 - Would effect Follow-on award date
- N0016420F3009 – JRC – MDA AA/DM/DV
 - End Date 5/31/2025
 - Planned Follow-on award date: 2/1/2025
- N0016420F3017 – JRC – SWSA / SITP
 - End Date 7/30/2025
 - Planned Follow-on award date: 3/1/2025
- N0016420F3018 – SAIC – iPDM/D5LE2/MBSE
 - End Date 9/22/2025
 - Planned Follow-on award date: 6/1/2025

Large Contract:

- N0016418DJV22 – Ranger – SSP Vehicle Refurb
 - Follow-on in process, expected 12/30/2023

NSWC Crane is an Established Center of Excellence for Strategic System Engineering Integration, Digital Engineering, and Security Engineering

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Global Department Connect to Mission

Presented by: Jeff Grannan



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Dr. Angela Lewis, SES
Technical Director



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Strategic Systems Hardware Division

- Advanced Concept Development
- Flight and Ground Test
- Launcher Equipment
- Rocket Motor Transportation and Handling
- Missile Systems Operations and Handling
- Electrical Test Sets
- Technical Design Review/Analysis
- Modernization Plans

SeaPort Task Order:

- N0016421F3016 – SAIC
 - End Date 03/29/2026
 - Planned Follow-on award date: 01/29/2026

NSWC Crane is a Leader in providing Missile and Launcher System Engineering, Operations, Handling, and Test Equipment for Strategic Missions Systems & Weapon Systems Surety

CONNECT TO MISSION

NETWORKING BREAK



Trusted Microelectronics & Hypersonics

*Mr. James Ross, Department Director,
Global Deterrence & Defense*

*Mr. Andrew Klueslner, Deputy Department Director,
Global Deterrence & Defense*

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- **Rad-Hard Microelectronics (OSD T&AM)**
 - **Advanced Next Generation Strategic Radiation Hardened Memory (ANGSTRM)**
 - Executed and funded by Space Force
 - Currently in source selection
 - Amount of T&AM support is still TBD
 - **GRADSoC Storefront**
 - NSWC Crane is currently working on RFS requirements
 - Plan for RFS to go out via S2MARTS in September 2023
 - **Project REACT – Radiation Effects in Advanced Commercial Technologies (New Start Idea for FY24)**
 - Project Description – Multi-agency USG team selects a “handful” of key technologies to characterize the radiation response
 - All data is USG purpose rights and goes into SRHEC parts library
 - NASA, universities, contractors – Focus on taking non-export controlled data
 - DoD labs, Sandia, contractors – Focus on export-controlled data



- **Potential S2MARTS OTA Efforts for OSD T&AM (FYDP = FY24-FY28)**
 - Design Acceleration and Transition: New effort on Cornerstone OTA and cost shared with IBAS/ICAM, AFRL Sensors is lead, FYDP value: Up to \$750M of T&AM funds and \$745M of ICAM funds (This will absorb the RAMP capability)
 - SHIP and STEAMPIPE: New prototypes, and transition demonstrators, S2MARTS OTA, FYDP value: up to \$250M
 - Emerging Memory Architectures, Air Force Contract, AFRL Space Force is the lead, FYDP value: up to \$240M
 - High Voltage SiC Technology, S2MARTS OTA, WXP is the lead, FYDP value: up to \$89M
 - NextGen RF GaN, S2MARTS OTA, WXP is the lead, FYDP value: up to \$129M
 - Evidence Based Assurance (EBA) Projects, S2MARTS OTA
 - Automated Firmware Bill of Materials Generation (\$3M)
 - Automated Reel and Tray XRay Inspection (\$1.5M - \$2M)
 - Microelectronics Architecture Framework (\$1.5M - \$2M)
 - T&AM Awareness Days are currently plan to be held on August 16-17 at BAH Headquarters in McLean, VA. There will be a OUSD Senior Leaders briefing the morning of 8/16, followed by an open forum the rest of the day through 8/17 for the wider DoD community (Service leads, PEOs, etc.).



- **Microelectronics Commons**
 - **S2MARTS OTA Actions (currently the only funded vehicle by Commons) in FY24/FY25.**
 - **Hub Awards scheduled for August timeframe and will be driving what prototype projects will be pursued.**
 - **Commons will be executing prototype projects that align to the 6 technical areas of Commons**
 - **Electromagnetic Warfare**
 - **Commercial Leap Ahead Technologies**
 - **Secure Edge/IoT Compute**
 - **Artificial Intelligence Hardware**
 - **Quantum Technology**
 - **5G/6G Technology**
 - **Those who wish to participate in Commons and provide solutions to projects will need to be a member of one of the Hubs.**
 - **All Commons prototype projects will be executed through the Hubs (which aren't awarded till August timeframe).**
 - **Funding: \$320M/annually in FY24-FY27.**

Global Deterrence & Defense Department

Connect to Missions



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Dr. Angela Lewis, SES
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STRATEGIC MISSIONS CENTER

Program Areas

- **Conventional Prompt Strike (Navy / Army)**
Supporting Hypersonic mission with Advanced Capabilities Development, Trusted Agent, Under Water Launch Test, Missile Operations, Handling and Transportation
- **OSD JHTO (Joint Hypersonics Transition Office)**
Responsible for accelerating hypersonics technology development, developing the nation's future hypersonics workforce, and facilitating the transition of ready technologies into operational capabilities. Established a University Consortium of Applied Hypersonics (UCAH).
- **OSD Mantech (Manufacturing Technology)**
Anticipate and close gaps in manufacturing capabilities for affordable, timely, and low-risk development, production, and sustainment of defense systems through joint, interagency, and public-private collaborations
- **OSD IBAS (Industrial Base Analysis & Sustainment)**
Strengthen the competitive posture of the US Defense Industrial Base (DIB) with developing the workforce, advance and sustain traditional and emerging defense sectors, mitigate supply chain vulnerabilities.
- **OSD MACH TB (Multi Service Advanced Capability Hypersonics – Test Bed)**
Affordably testing Hypersonic Innovation at the speed of relevance, comprised of DoD and commercial launch solutions leveraging reusable technologies

Skill Sets Required

- Project Management
- Model Based Systems Engineering
- Electrical Engineering
- Mechanical Engineering
- Modeling & Simulation
- Aerospace Engineering
- Materials Engineering
- Weapon Systems Integration
- Avionics / Flight Controls
- Trajectory Modeling
- Post Launch Communications
- Software Engineering
- Model Based Product Support



Potential Future Acquisitions

- Seaport Follow On N0016420F3014, ~June 2024
- Future Opportunities to
 - Advanced S&T capability development for technology insertion
 - Address critical issues in the industrial base relating to urgent operational needs, support efforts to expand the industrial base, address supply chain vulnerabilities.
 - Develop Emerging and Advanced manufacturing technologies and processes
 - Novel applications of traditional manufacturing technologies and processes
 - Education and Workforce Development in support of the manufacturing workforce



Current ManTech Initiatives

- **Hypersonics Advanced Manufacturing Testing Capability (HAMTC) PARI:** Accelerate development and testing of hypersonic prototypes. (\$18.67M)
- **Demonstration of Aeroshell Structures for Hypersonics (DASH):** Demonstrate scalable 3D C/C-SiC manufacturing. (\$10.91M)
- **Classified Test Materials for Hypersonics (CTMH):** Manufacturing demos of full scale CVI C/SiC test articles. (\$5.14M)
- **Manufacturing of Advanced Composites for Hypersonics Aided by Digital Engineering (MACH ADE):** Digital engineering aided composite design. (\$38.43M)

CONNECT TO MISSION

NETWORKING BREAK



Acquisition Approach Panel

Facilitator: Ms. Nancy Maloy, Technical Acquisition Deputy



Global Department Contracts Overview

Presented by: Jordan Schnarr

June 6th, 2023



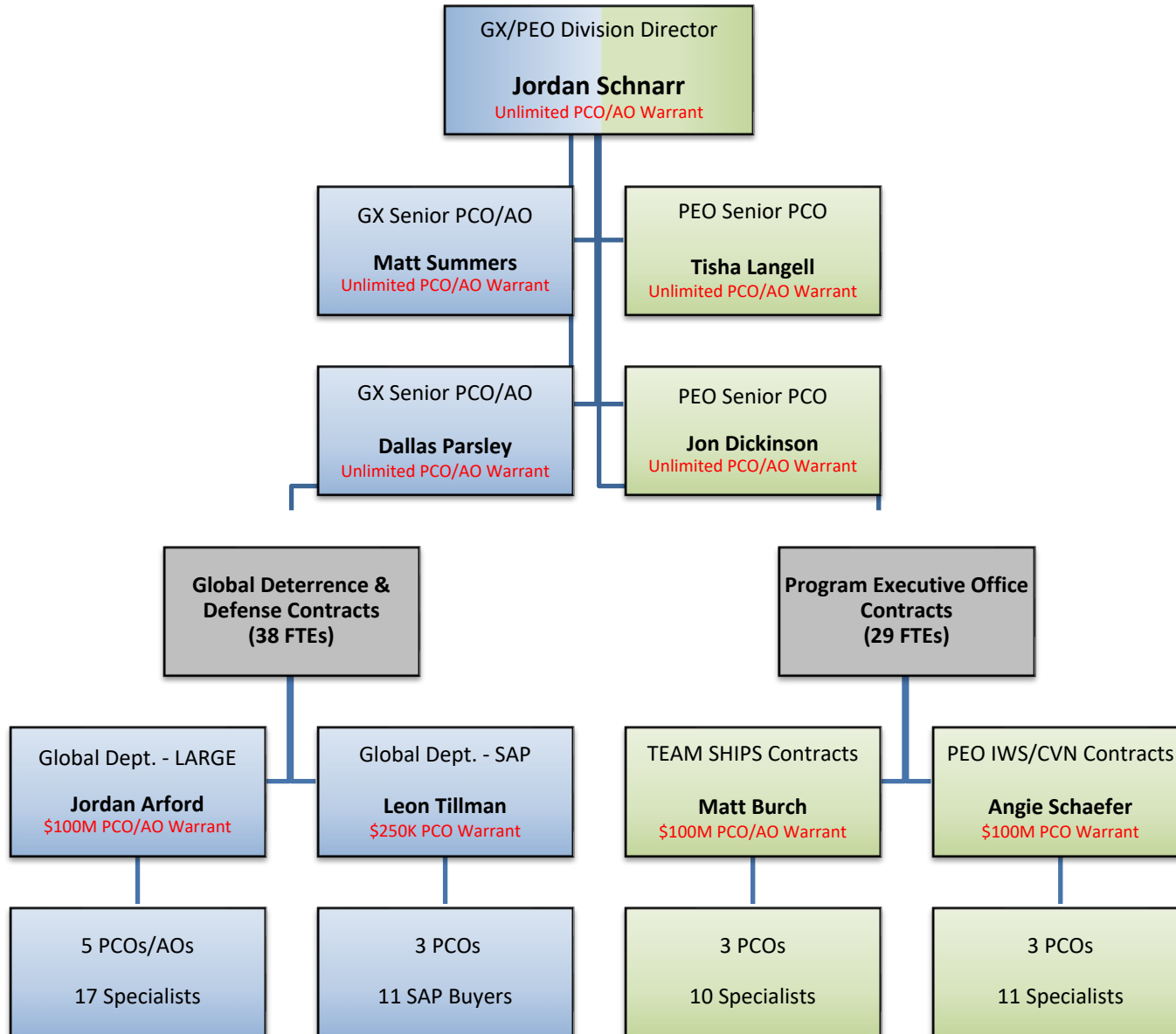
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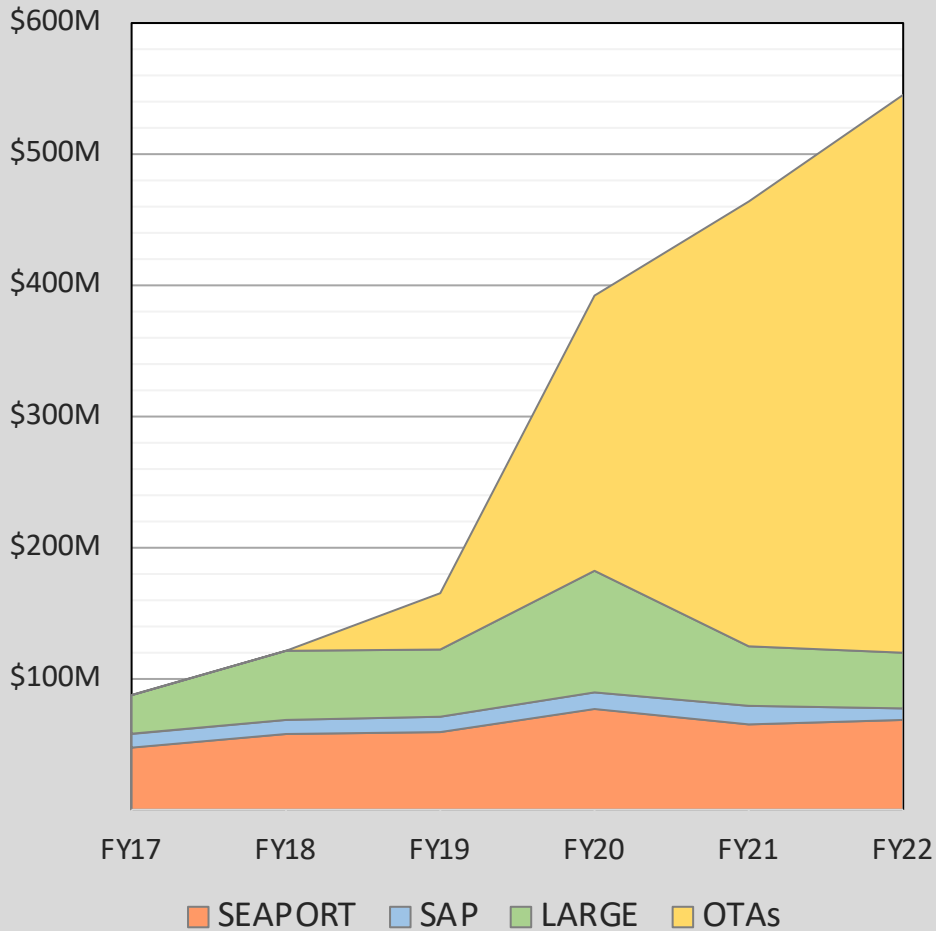
GX CONTRACTS



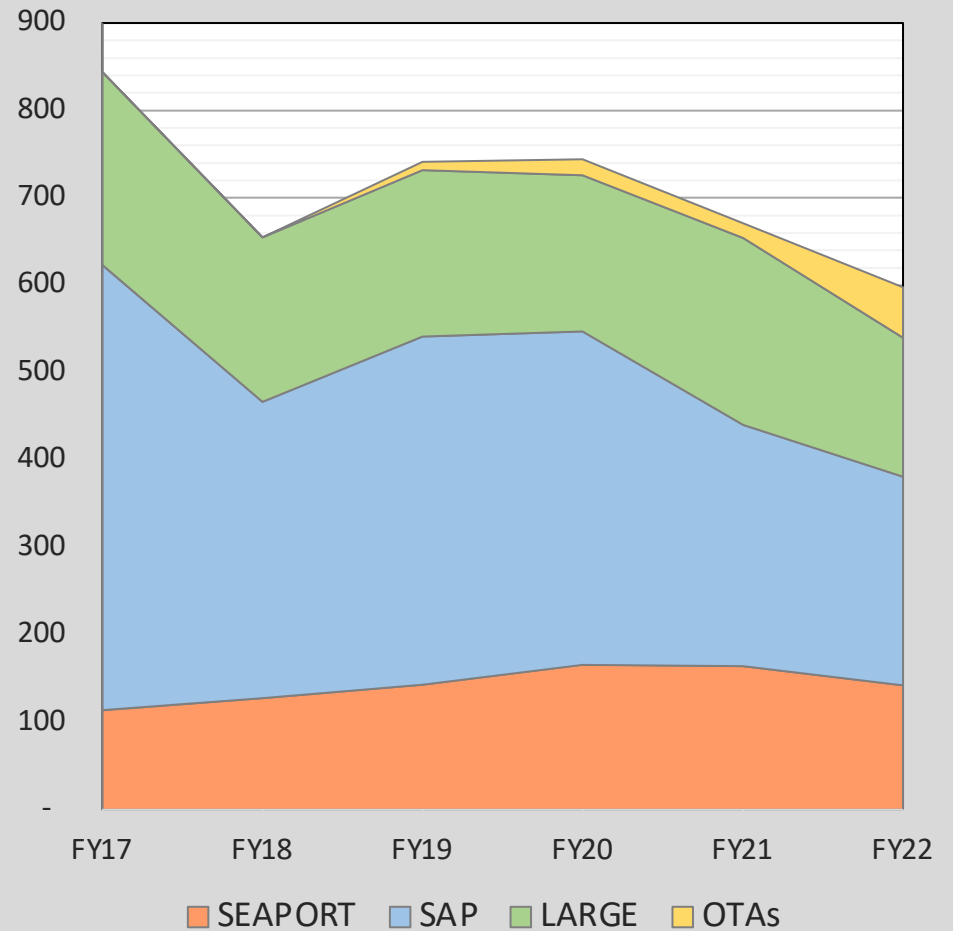


GX CONTRACT PORTFOLIO

OBLIGATIONS (FY17-FY22)



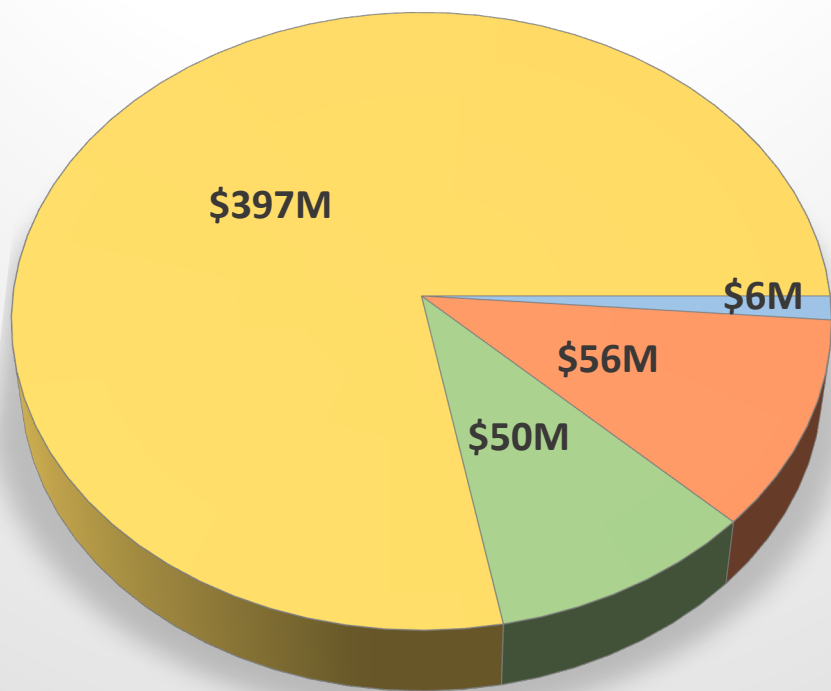
ACTIONS (FY17-22)





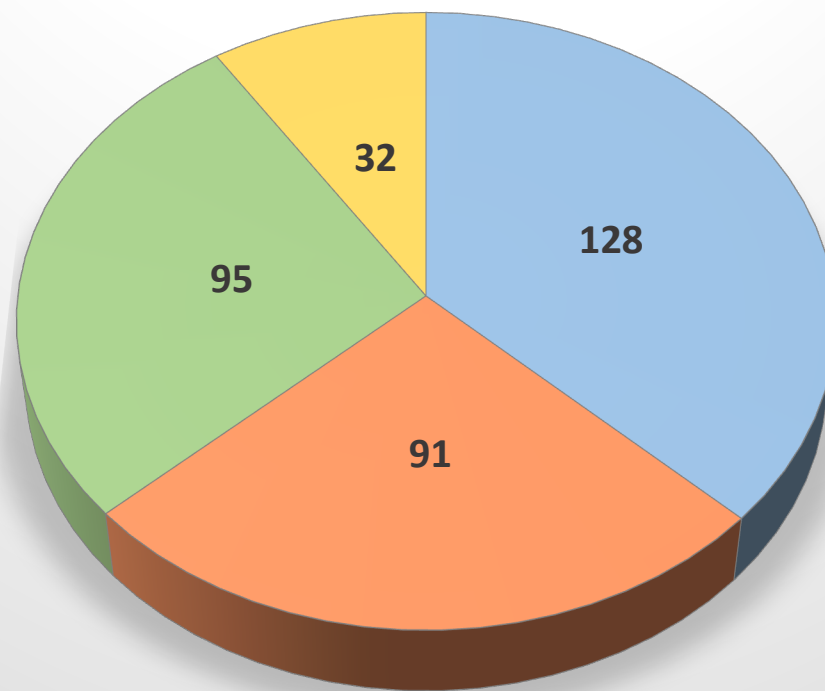
FY23 OVERVIEW

FY23 OBLIGATIONS (\$510M)



■ SAP ■ SEAPORT ■ LARGE ■ OTAs

FY23 ACTIONS (346)



■ SAP ■ SEAPORT ■ LARGE ■ OTAs



Services (FY22)

- **Services (~24% Small Business)**
 - Nearly 400 Full Time Equivalent (FTE) Positions

- **Focus areas include:**
 - Systems engineering and technical support
 - Logistical and life cycle support
 - Research, Development, Test and Evaluation
 - Configuration Management
 - Model Based Engineering & Computer Aided Design
 - Polymer Engineering
 - Security Systems
 - Radiation Effects Test & Evaluation for Microelectronics





Supplies & OTs (FY22)

- **Supplies (~29% Small Business):**
 - **Primary types of supplies**
 - **Instrument and Laboratory Equipment, Test Equipment**
 - **Electrical and Electronic Equipment Components**
 - **Security system components**
 - **Software for testing and analysis**
 - **Sonar (transducer) components**
 - **Cabling**
- **Other Transactions (OTs)**
 - **Primary Types of OTs**
 - **Trusted & Assured Microelectronics**
 - **Hypersonics Technologies**



WHERE TO FIND OPPORTUNITIES

LARGE / OTAs:

- <https://sam.gov/>

Simplified Acquisition Procedures (SAP):

- <https://sam.gov/>
- <https://GSAadvantage.gov>

SEAPORT:

- <https://seaport.navy.mil>

Other Transactions Authority (OTAs):

- <https://s2marts.org/>

S²MARTS OTA Overview

Presented by: Shaun Davis

June 6th, 2023



*CAPT Duncan McKay, USN
Commanding Officer*



*Dr. Angela Lewis, SES
Technical Director*



What is S²MARTS?

Strategic & Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS)

Consortium Based OTA Managed by a Consortium Manager, National Security Technology Accelerator (NSTXL)

- **Access to Both Authorities**
 - **Research Authority – Basic, Applied, & Advanced Research Projects (10 USC 4021)**
 - **Prototyping Authority – Prototype Projects (10 USC 4022)**
- **Over \$1.2 Billion Awarded Since Inception (Feb 2019)**





Prototype Definition

A prototype project can be: “preliminary **pilot, test, evaluation, demonstration, or agile development activity** used to evaluate the technical or manufacturing feasibility or military utility of a particular technology, process, concept, end item, effect, or other discrete feature.”

“Prototype projects may include **systems, subsystems, components, materials, methodology, technology, or processes.**”

Prototype project addresses a proof of concept, model, reverse engineering to address obsolescence, pilot, novel application of commercial technologies for defense purposes, agile development activity, creation, design, development, demonstration of technical or operational utility, or combinations of the foregoing. A process, including a business process, may be the subject of a prototype project.”

~USD A&S OT Guide, NOV 2018



Prototype Participation Requirements

One of following are required:

1. There is at least one nontraditional defense contractor or nonprofit research institution participating to a significant extent in the prototype project.
2. significant participants in the transaction are small businesses or nontraditional defense contractors.
3. At least one third of the total cost of the prototype project is to be paid out of funds provided by sources other than the federal government.
4. The senior procurement executive for the agency determines that exceptional circumstances justify the use of a transaction that provides for innovative business arrangements or structures that would not be feasible or appropriate under a contract, or would provide an opportunity to expand the defense supply base in a manner that would not be practical or feasible under a contract.



Key Benefits of S²MARTS

- **Milestone Schedules**
 - Payments to performers can be made as milestones are met
 - May be used as off-ramps if needed
- **Advanced Payments Allowed**
 - NSTXL may invoice for milestones due within the following 6 months.
 - Allows for faster expenditure execution
 - NSTXL holds funds in an account, but won't disperse to performer until Certificate of Completion is signed by Government team
- **Open Communication**
 - Government technical team may interact with performers during execution of the project
- **Potential for Teaming Arrangements**





S²MARTS Membership

S²MARTS Webpage

- <https://s2marts.org>

S²MARTS Membership Webpage

- <https://s2marts.org/membership/>

NSTXL Membership Webpage

- <https://nstxl.org/membership/>

Application approval process takes approximately 1-2 business days to complete



Cornerstone Membership & Opportunities

Cornerstone Website

- <https://cornerstone.army.mil/>

Opportunities

- <https://SAM.gov>
- Email distribution to members

Membership

- No fee
- Approval takes ~1 week to complete

Contact Email

- usarmy.ria.devcom-cbc.mbx.cornerstone-ota@army.mil



Current Opportunities

- **Hypersonics Environmental Simulation Hardware-In-The-Loop**
 - Solutions Due: June 23, 2023 12:00 pm
- **Joint Acceleration of Hypersonic Vehicle Aerostructure Alternatives (JAHVAA)**
 - Solutions Due: 22 June 2023 at 12:00 PM ET

<https://s2marts.org/opportunities>



Upcoming Opportunities

Microelectronics

- High Voltage Silicon Carbide (SiC) Technology (\$89M) - S²MARTS
- NextGen RF Gallium Nitride (GaN) (\$129M) - S²MARTS
- Automated Firmware Bill of Materials Generation (\$3M) - S²MARTS
- Automated Reel and Tray XRay Inspection (\$1.5M - \$2M) - S²MARTS
- Microelectronics Architecture Framework (\$1.5M - \$2M) - S²MARTS
- Digital Engineering Cloud (\$600M) – Cornerstone or S²MARTS (Undetermined)

Hypersonics

- Hypersonics Affordability All-Up-Round Cost Savings Initiative (\$340M) - S²MARTS



S²MARTS Team

NSWC Crane - S²MARTS Program Management

Shaun Davis

S²MARTS Program Manager

812-854-3621

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Anna Gates

S²MARTS Program Management Team

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NSTXL - Consortium Management

Doug Crowe

NSTXL S²MARTS Consortium Director

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Tony Kestranek

NSTXL S²MARTS Consortium Deputy

Director

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Backup – NSTXL Membership Application

Backup - NSTXL Membership Application



NSTXL Membership – Step 1

DASHBOARD OPPORTUNITIES MEMBERSHI

Step 1 of 6

16%

Organization Information

Company Name *

Company Address *

Street Address

Address Line 2

City

State

ZIP Code

Company Phone Number *

Please enter in this format: (###) ###-####

Company Website *

All URLs must include https://

Is your firm a Traditional or Non-Traditional organization? *

- Traditional
- Non-Traditional

A traditional organization is defined by the government as a firm that is subject to the Defense Contract Augit Agency (DCAA) full cost accounting standards. If you have never heard of DCAA, are a small business or start-up, or haven't done business with the federal government before, your firm will be Non-Traditional.

Business Type *

Additional Details

Please select all that are applicable.

- Small Business
- HUBZone
- Woman-owned
- SDVOSB
- Minority-owned
- <\$50M of work with DoD last year
- Synthetic Terrain

Select All

Number of Employees *

Please enter a number less than or equal to 100000.

Annual Gross Revenue *

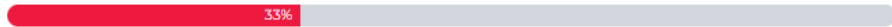
NEXT SAVE AND CONTINUE LATER



NSTXL Membership – Steps 2 & 3

*** indicates required fields

Step 2 of 6



Organization Information Continued

CAGE Code *

0 of 5 max characters

The Commercial And Government Entity (CAGE) Code is a five-character ID number used extensively within the U.S. federal government.

DUNS Number *

Facility Clearance (FCL) *

- None
- Confidential
- Secret
- Top Secret

Compliance Status *

- DFARS
- ITAR
- NIST 800-171
- CMMC Level 1
- CMMC Level 2
- CMMC Level 3
- CMMC Level 4
- CMMC Level 5
- None

Select All

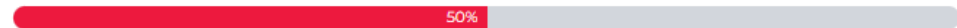
Is your organization (or your subcontractors) foreign owned or under USA foreign owned, controlled, or influenced (FOCI) status or under a merger with a foreign company or a USA FOCI company (Yes or No)? *

information and to establish a membership account.

Once the application is submitted, we will verify the information and contact you within 1-2 business days with the application status.

*** indicates required fields

Step 3 of 6



OTA(s) of Interest

Please select the OTA(s) of interest:

- TRex
- S2MARTS
- S2MARTS Research
- SpEC

Select All

DD2345 Number

DD2345 Expiration Date

Upload DD2345 Form

*To be eligible for SpEC membership, you will need to provide a DD2345 form during membership registration. Please see additional information on [Spec's website](#). Even though this is not required for the other OTAs we recommend that you apply for certification.



NSTXL Membership – Step 4

Technology Solution Areas

Please select all options that apply to your organization: *

- 5G
- Artificial Intelligence/Machine Learning
- Autonomous and Unmanned Systems
- Communications
- Cyber
- Defense Systems and Applications
- Enhanced Fabrication
- Hypersonics
- Information Technology, Systems & Infrastructure
- Microelectronics
- Modeling, Simulation, Training & Virtualization
- Radar
- Robotics
- Space Satellite bus/structure/power/attitude control/propulsion
- Space Artificial Intelligence/machine Learning
- Space Command, control & Communications Architecture
- Space Electronics
- Space Ground Segment
- Space Launch Segment
- Space Mission Design/CONOPS/Evaluation
- Space Mission Operations and Architecture
- Space Payload - Data Processing and Transport
- Space Payload - Optical
- Space Payload - Radio Frequency
- Spectrum Missions
- Strategic Missions
- Supply Chain
- Other

To select multiple technology solutions hold the CTRL button down while selecting.

PREVIOUS

NEXT

SAVE AND CONTINUE LATER



NSTXL Membership – Step 5

NSTXL Membership

Please select a membership level: *

- \$250.00 - Corporate - less than 10M
- \$500.00 - Non-Profit - less than 50M OR Incubator
- \$1,000.00 - Corporate - 10M-50M
- \$2,500.00 - University, Laboratory or Investor
- \$5,000.00 - Corporate or Nonprofit - 50M-100M
- \$10,000.00 - Corporate or Nonprofit - over 100M

Membership Point of Contact

Name

Email Address *

Job Title *

Job Function *

Phone Number *

Please Select

Company Division

Opt-In Share Contact Information *

- Yes
- No

By checking yes to share contact information, you are agreeing to have your contact information shared on the NSTXL membership portal where you can search our NSTXL Member Database to find potential collaborative partners.

Is this your company's first time working with the DoD? *

[Click here to view Principles of Engagement Agreement](#)

Consent *

I have read and agree to the terms set forth in the Principles of Engagement Agreement.

Below, create your NSTXL.org log-in credentials

Below, create your NSTXL.org log-in credentials *

Username

0 of 12 max characters

Password *

Enter Password

Confirm Password

Password should contain at least 9 characters: a minimum of 1 lower case letter (a-z) AND a minimum of 1 upper case letter (A-Z) AND a minimum of 1 numeric character (0-9)



NSTXL Membership – Step 6

* indicates required fields

Step 6 of 6



Payment & Application Submission

Total

\$250.00

Coupon

Payment Type *

- Credit Card
- ACH

Signature *

Please show us that you are human by answering this below: 3 x 7= *

NavalX Midwest Tech Bridge

Anne Fields Lucas, Regional Director





Anne Fields Lucas

NavalX Midwest Tech Bridge Director

anne.l.lucas.civ@us.navy.mil

812-854-4217

Midwest Tech Bridge Organizational Overview



TECH BRIDGE & CAW LOCATIONS



Midwest Tech Bridge: What We Do

SUPER CONNECTORS

Familiarization with Naval Problems & Stakeholders

Familiarization with Solution Providers

Intentional Connections

Tech Scanning

STRATEGIC EVENTS

Host Conferences/Events Driven by Naval Need

Technology Demonstrations & Showcases

Training Events

Participation in Ecosystem Events

INNOVATION PIPELINE CHAMPIONS

Assist in identification and engagement of stakeholders within Innovation Pipeline

Guide through Pipeline

Problem Sourcing

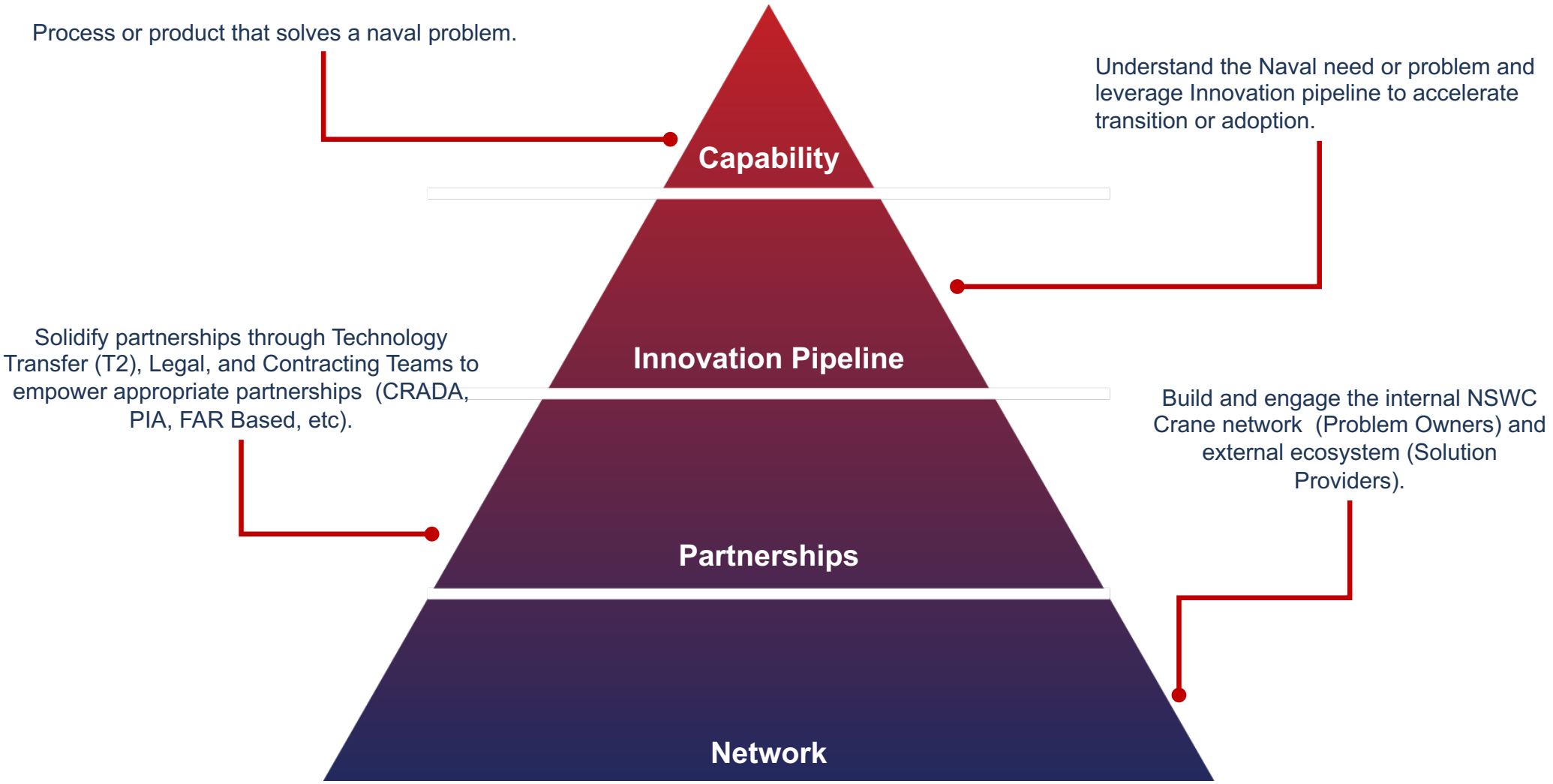
Ecosystem Member

STRATEGIC FACILITATION

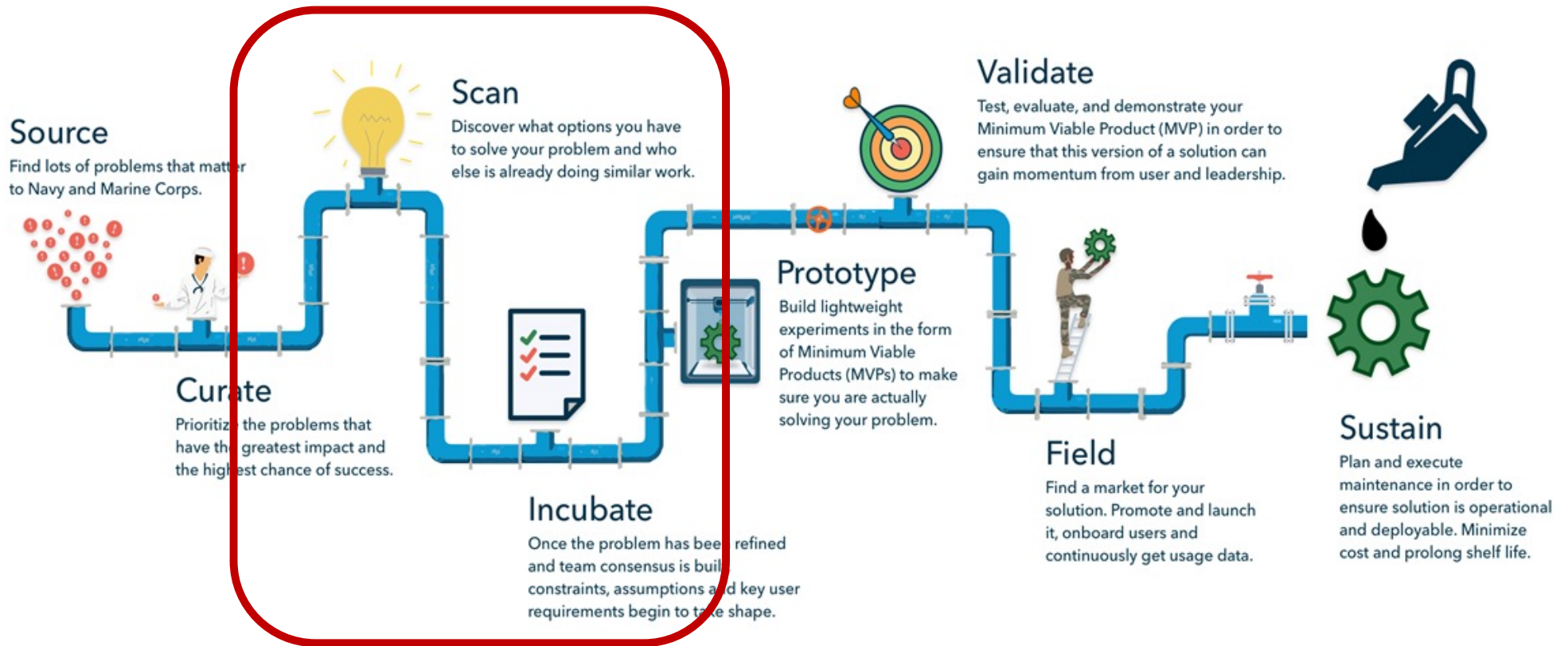
NavalX trained Human Centered Design Team

Curating problems across NSWCC Crane for internal process improvement

Midwest Tech Bridge: How We Do It



NavalX Innovation Pipeline



2023 Midwest Tech Bridge Events

JANUARY - APRIL

JAN

- JXQ - Electro Optics Tech. Division Mtg.
- Tech Tuesday #23-1 RAD HARD Panel

FEB

- SBIR/STTR Event
- Connect to Mission – CRDG
- Initiate SBIR Working Group Meeting

MAR

- GXT - Strat. Missions Sys. Engineer. Div. Mtg.
- Naval X Tech Bridge Quarterly #1 - Ventura
- FLC National Conference

APR

- WXM - Maritime EW Systems Div. Mtg.
- Buy Indiana Expo
- Generate Tour
- 00T - Chief Technology Division Mtg.
- **PROPELS**

MAY - AUGUST

MAY

- **Hypersonics Innovation Conference**
- DARPA Connect
- Virtual Juice Bar with Central Florida TB
- MTB & Technical Acquisition Meeting
- LVC Pre-Integration Event

JUN

- Connect to Mission - CRDG
- **Energy Storage Systems Industry Day**
- PROPELS Demo Day
- Crane Congressional Breakfast
- LVC Test Event
- Propels Radius/Crane IP Defense Innovation Pitch Competition
- LVC Event
- Heritage VC Tour

JULY

- NavalX Tech Bridge Quarterly #2

AUG

- **PROPELS +**
- MIM Microelectronics Integrity Mtg.

SEPTEMBER - DECEMBER

OCT

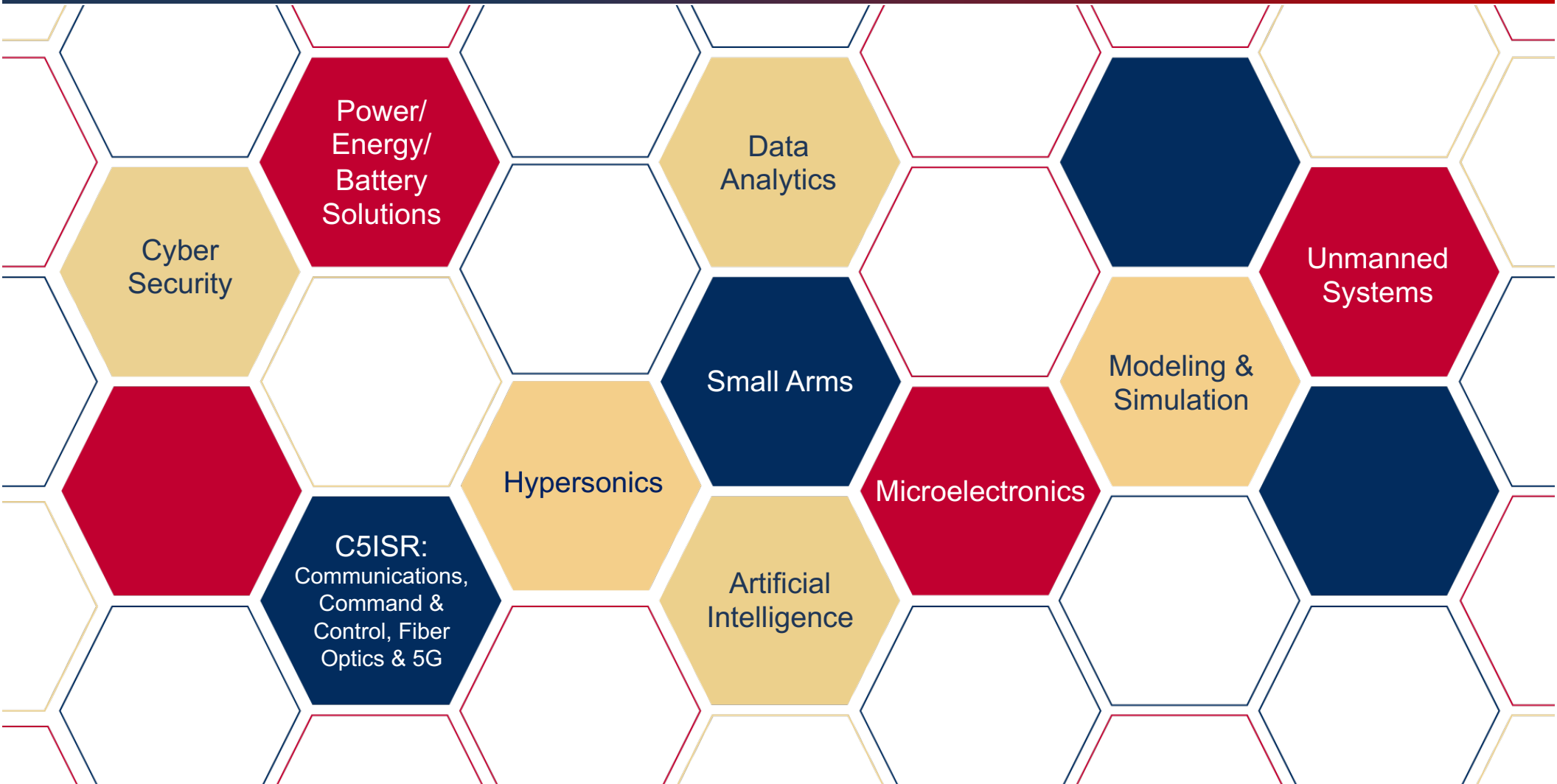
- **MDIS**
- NavalX Quarterly Conference #3
- Hypersonics Clustering Initiative

NOV

- SBIR/STTR Event #3
- SBIR/STTR Event #4

DEC

Midwest Tech Bridge Focus Areas





ANNE FIELDS

DIRECTOR

ANNE.L.FIELDS.CIV@US.NAVY.MIL



JULIE SHAFF

DEPUTY DIRECTOR

JULIE.A.SHAFF.CIV@US.NAVY.MIL



CONNECT TO MISSION

THANK YOU

Please join us for Purdue Research Foundation's Tech Tuesday event!

Featuring: Reliable Microsystems

