



Naval Information Warfare Center Atlantic

NavalX Palmetto Tech Bridge

13th Annual
Charleston Defense Contractors
Association Defense Summit

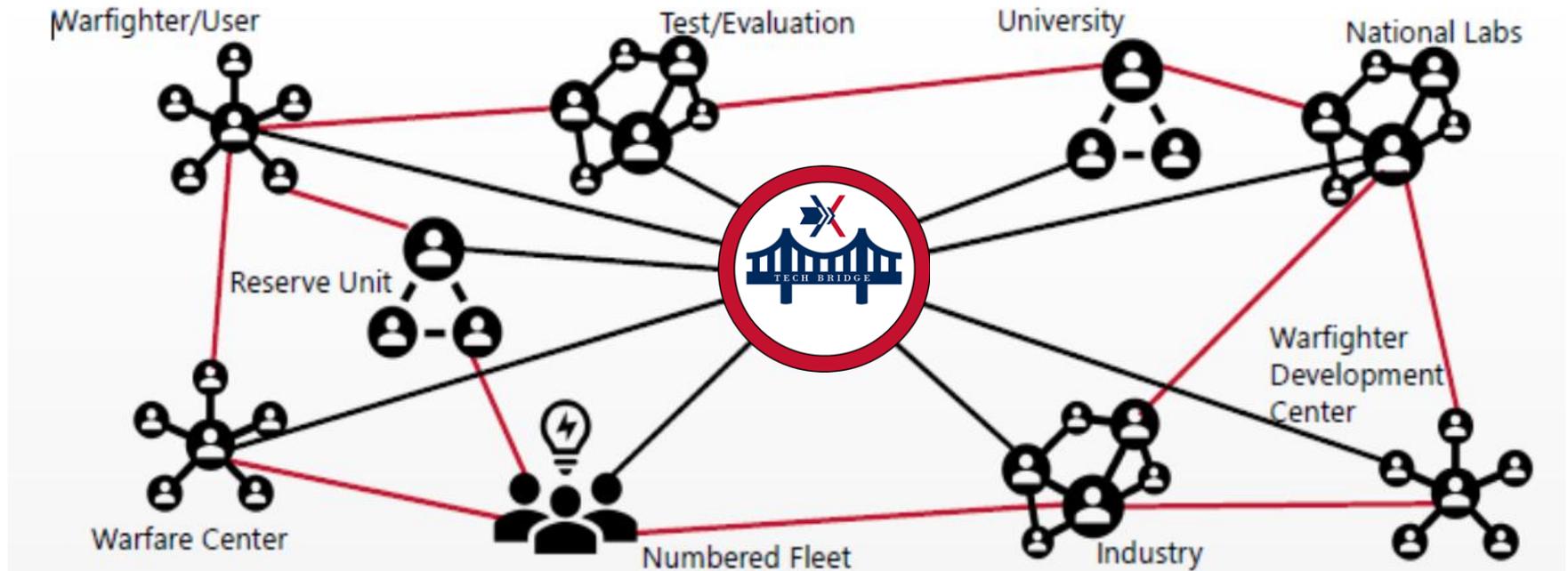
11 December 2019

Mr. Michael Merriken
Director, Palmetto Tech Bridge
NIWC Atlantic

NavalX

The 2018 National Defense Strategy was a call to the Department of Defense to find ways to harness innovation in private businesses and academia to better serve and protect our country.

James Geurts, Assistant Secretary of the Navy for Research, Development & Acquisition (ASN (RD&A)) established NavalX in January 2019 to expand the Department of the Navy's (DON) capabilities.



NavalX connects both the internal DON and external DON partners to increase awareness and access to best practices and technologies.

NavalX

▼ NavalX is ...

- **Not** scouting coolest technology
- **Not** replacing other Naval innovation or war room efforts
- **Not** a buying activity like DIU
- **Not** a funding activity
- **Not** a means to circumvent the POM process
- **Not** competing with other defense innovation hubs (NSIN, AFWERX, etc.)
- **Not** the same as SOFWERX but can partner with SOFWERX

▼ NavalX is ...

- **Building networks, breaking down silos, and connecting people!**
- **Accelerating the pace of discovery, learning, experimentation**
- **Making change easier**

NavalX Mission Lines of Effort

Playbooks

Find and document what works
Connect users to mentors
Make adoption easy!



Tech Bridges

Connecting the workforce to other agencies, small businesses, startups, non-profits, academia, and private capital markets.



Launch Platforms

Seaside Chats, Workshops, Human/Warfighter Centered Design, Training Events



Awards & Learning Stories

Recognize community through continuous awards & stories to incentivize agility behaviors



NavalX = Connector

Increasing the density of Naval networks inside the DON and with industry and building collaborative relationships



Learn | Share | Guide | Connect | Accelerate

NavalX – Tech Bridge

Core Elements



- ▼ Must have local Navy Sponsor(s) willing to dedicated funding, personal and or programming
- ▼ 1-2 FTE provided by Navy Sponsor
- ▼ Must have Non-Navy Local/Regional Partners providing funding and/or in-kind services
- ▼ Must have a sustainable business plan to connect Navy and Industry independent of NavalX support after 12 months

What Makes a Tech Bridge



NavalX Support



- ▼ ASN (RDA) Lawyers, PAO, Legislative Affairs, etc.
- ▼ One locally-sponsored FTE may be matched by a one DON SBIR-sponsored FTE
- ▼ Early access to NavalX playbooks, network, training, programming and collaboration tools
- ▼ Tech Bridge funded travel to build networks across ecosystems

NavalX – Tech Bridge

▼ Tech Bridge Strategic Focus

- Establish Tech Bridges as a National Network of connected regional platforms to quickly experiment (access and engage) and partner to solve problems

▼ Execution Priorities

1. Take a DON problem through to deployed solution at each of the designated regional tech bridges
 2. Create and test an innovation pipeline that connects multiple tech bridges
- ## ▼ This is Year One - we are in discovery phase - only constant is change

NavalX – Tech Bridge

- ▼ Tech Bridges will partner with start-ups, academia, corporations, small businesses, non-profits, private capital, and government entities building sustainable networks for collaboration and accelerated problem solving.
- ▼ NavalX Tech Bridges will CONNECT, REINFORCE and SUSTAIN acceleration ecosystems in off-base locations across the DON.
- ▼ Tech Bridges are a facilitation mechanism for a Navy lab to address specific technical problems in an agile way reaching into the lab's existing regional innovation ecosystem.

NavalX – Tech Bridge

First Six Locations To Connect DON and the Private Sector



Keyport, WA



Tech Bridges will operate on a “franchise” model allowing each region to develop their own model to connect to their unique innovation ecosystem

Crane, IN



Newport, RI

San Diego, CA



Charleston, SC



Orlando, FL

Palmetto Tech Bridge

▼ Multi-year plan

- Need to define the initial focus areas that address both Navy and partners problems/interests
 - Cybersecurity
 - Autonomous Systems
 - Additive Manufacturing
- Generate a PTB Roadmap for follow-on years
 - Use BMNT Problem Curation process
- Define PTB Innovation Ecosystem
 - USC/Trident Tech/Other Universities
 - MEP/SCRA/SC state entities
 - Boeing/IBM/small businesses/industry
 - Digital Corridor/entrepreneurs/venture private funding
 - Other Federal labs - USA, Ft. Gordon and DOE, Savannah River Site

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▼ Collaboration Mechanisms

- Partnership Intermediary Agreements (PIA)
- Cooperative Research and Development Agreements (CRADA)
- Small Business Innovation and Research (SBIR/STTR)
- Other Transaction Authority (OTA) – IWRP
- Commercial Service Agreement (CSA)
- Education Partnership Agreement (EPA)
- Grants and Cooperative Agreement (CA)
- Federal Acquisition Regulations (FAR)
- Rapid Acquisition Authorities
- Industry personnel Exchange/Rotation programs

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▼ Funding Mechanisms

- PEO/PMW/USMC customers/warfighter who want specific technical problems addressed
 - IWRP
 - SBIR
- ONR – Naval Innovation Process Adoption (NIPA)
- Internal funds from each partner
 - NISE collaborative research
 - Corporate IR&D, CSA, PLA
 - University grants
- External investors
 - VC
 - Angel investors
 - SC State

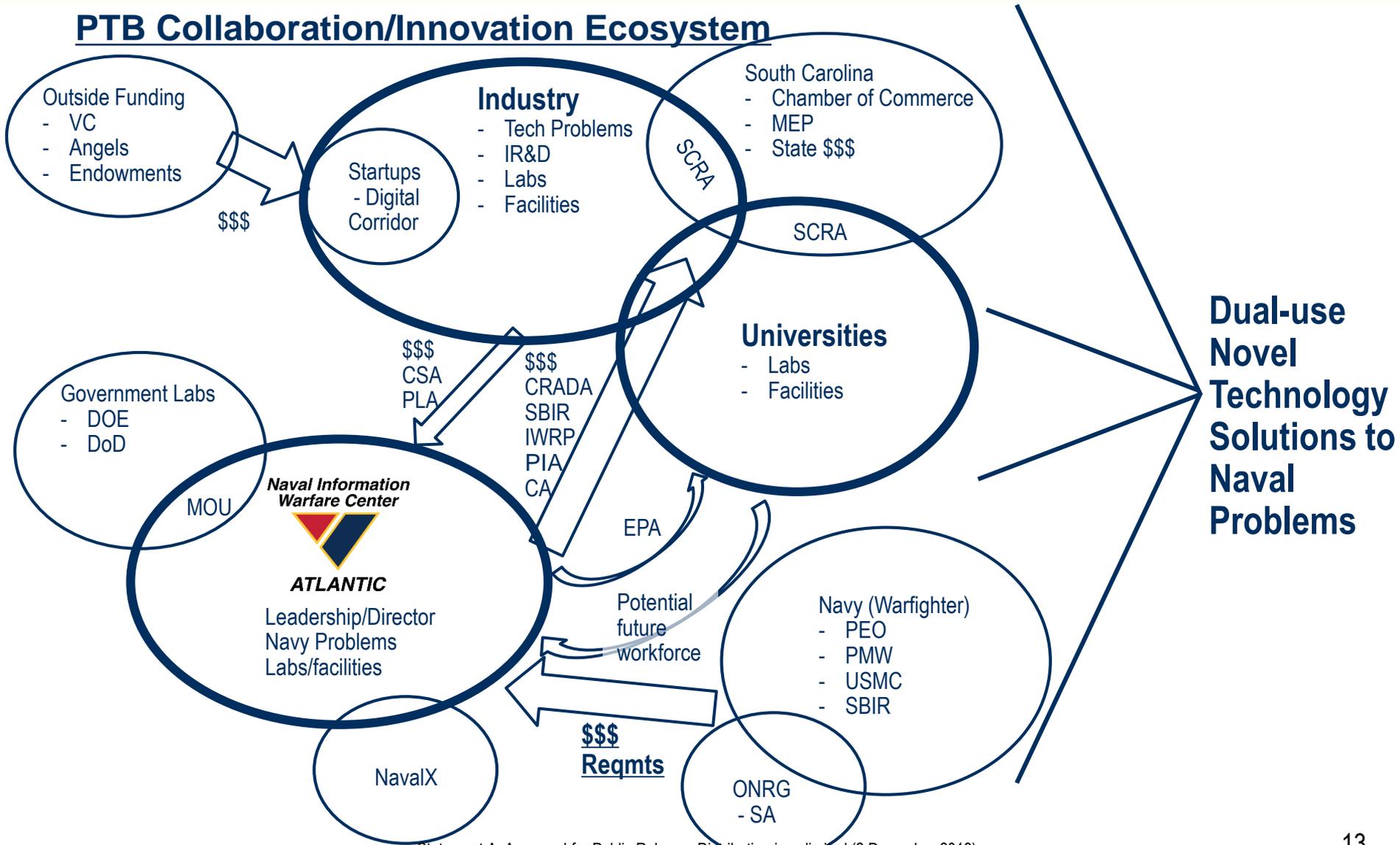
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▼ Possible Off-Base sites

- PIA Partners
 - USC / McNair Center, Columbia, SC
 - SCRA / USMC facility, Buford, GA
- Chamber of Commerce / Catalyst Center
- Clemson / Zucker
- The Citadel
- Digital Corridor

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PTB Collaboration/Innovation Ecosystem



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▼ Define partners and contributions

		Location	Additive Manufacturing	Autonomous Systems	Collaboration Space	Software Development	Cyber Research	Industry/Gov/Academia Networking	Training	Incubator Services	Funding Source	Federal Tech Commercialization	NIWC PIA
Regional Navy Sites	MRC	NIWC LANT	X	X	X	X	X	X	X		X	X	
	Digital Integration Lab	NIWC LANT					X	X					
Off Base Sites	Digital Corridor	Charleston	X	X	X	X	X	X	X	X		X	X
	McNair Center	Columbia	X	X	X	X		X	X	X			
	Flagship Incubator	Charleston	X		X	X			X	X		X	
	Tech Center	Charleston	X	X	X	X		X	X		X		
Organizational	SCRA				X	X		X					X
	SC MEP		X							X		X	

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▼ Next Steps

- First Year
 - Kick-off Meeting – Jan 7, 2020
 - Develop Web site and social media outlets for communications
 - Work with Department IPTs and ONR SA to develop a list of candidate technology gaps
 - Identify Naval owners/end-users of these gaps
 - Cull this list down to dual-use technologies
 - Identify collaboration facilities/locations
 - Develop first cut at plans for problem solutions with specific partners identified and their respective responsibilities
 - Develop plans for funding and which contract/agreement vehicle(s) need to be used
- Develop Multi-year plan
 - Meeting March/April timeframe

Naval Information
Warfare Center



ATLANTIC

Serve our Nation by delivering information warfare solutions that protect national security. WIN THE INFORMATION WAR.



NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: <https://www.public.navy.mil/navwar/Atlantic> Facebook: <https://www.facebook.com/NavalInformationWarfareSystemsCommand>

Twitter: <https://twitter.com/navwarHQ> Instagram: <https://www.instagram.com/spawarhq/> LinkedIn: <https://www.linkedin.com/company/spawar/>

Glassdoor: <https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI-IE638508.11,41.htm>

Employment opportunities: <https://www.usajobs.gov/> NIWC Atlantic Small Business: <https://www.public.navy.mil/navwar/Atlantic/Pages/ForIndustry.aspx>

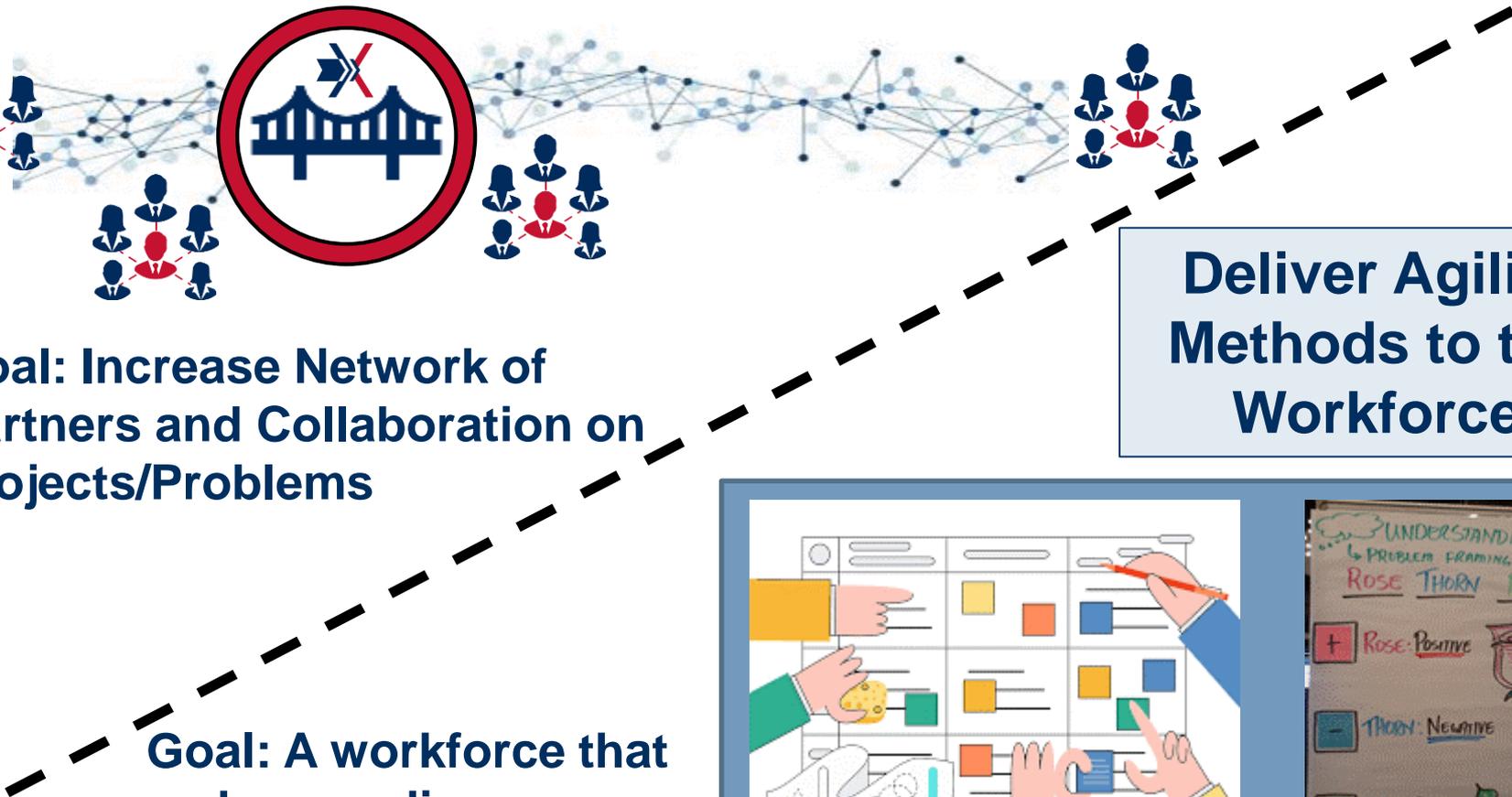
NAVWAR Contract Directorate Office: <https://e-commerce.sscno.nmci.navy.mil>

Connect with the Private Sector



Goal: Increase Network of Partners and Collaboration on Projects/Problems

Deliver Agility Methods to the Workforce



Goal: A workforce that embraces discovery, learning, and innovation



NavalX – Tech Bridge

▼ 401 Tech Bridge

- NAVSEA CTO/ NUWC
Newport, RI
 - Director, Steven Bordonaro

▼ Northwest Tech Bridge

- NUWC Keyport, WA
 - Director, LCDR Johannes
Schonberg

▼ SoCal Tech Bridge

- NIWC Pacific, CA
 - Director, Josh Caplan

▼ Central Florida Tech Bridge

- NAWC TSD, FL
 - Director, Diana Teel

▼ Midwest Tech Bridge

- NSWC Crane, IN
 - Director, Monica Hutchens

▼ Palmetto Tech Bridge

- NIWC Atlantic, SC
 - Director, Michael Merriken