Ventura Tech Bridge Fathomwerx

NAVAL SURFACE WARFARE CENTER
PORT HUENEME DIVISION
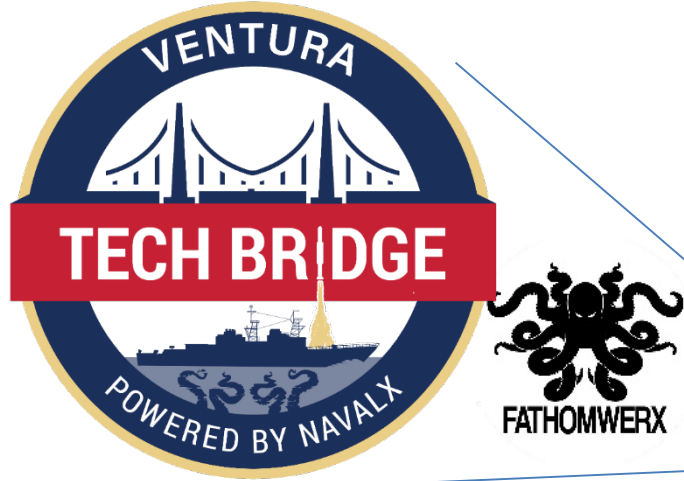
Alan Jaeger
Naval Surface Warfare Center, Port Hueneme Division
Alan.W.Jaeger.civ@us.navy.mil
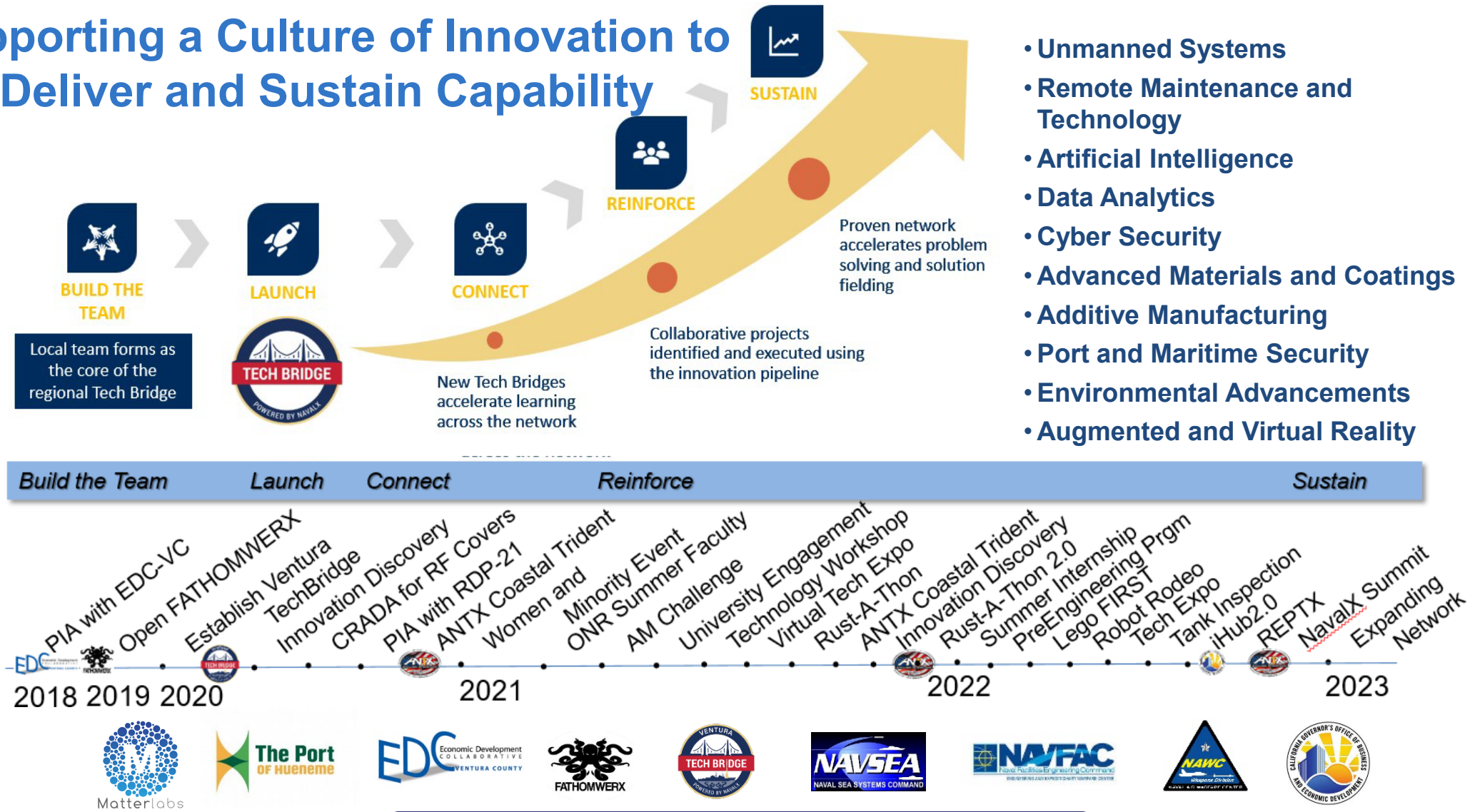
Ventura Tech Bridge @ Fathomwerx

Located waterfront in the Port of Hueneme at Naval Base Ventura County, the Ventura Tech Bridge serves as a strategic partner for the purposes of education, prototyping, testing and evaluation for developing technologies in the port and maritime domains.

- Land, Sea and Air Systems
- Testing and Evaluation of Unmanned/Manned systems
- Advanced Materials, Coating and Additive Manufacturing
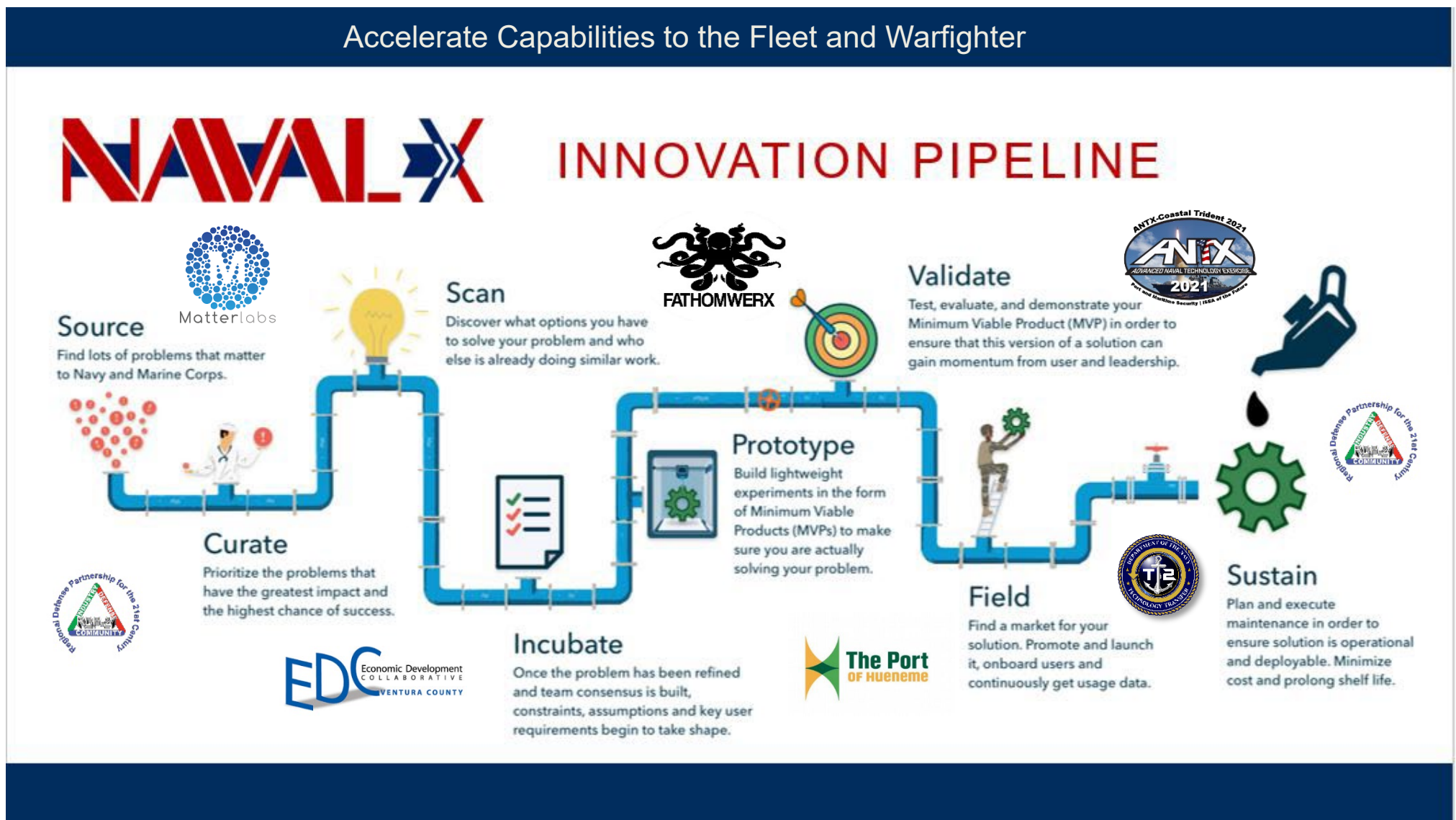- Shore, Afloat, Undersea, Expeditionary Force, Energy and Environmental

Regional Innovation

Supporting a Culture of Innovation to Deliver and Sustain Capability

BUILD THE TEAM → LAUNCH → CONNECT → REINFORCE → SUSTAIN

Local team forms as the core of the regional Tech Bridge

TECH BRIDGE

New Tech Bridges accelerate learning across the network

Collaborative projects identified and executed using the innovation pipeline

Proven network accelerates problem solving and solution fielding

- Unmanned Systems
- Remote Maintenance and Technology
- Artificial Intelligence
- Data Analytics
- Cyber Security
- Advanced Materials and Coatings
- Additive Manufacturing
- Port and Maritime Security
- Environmental Advancements
- Augmented and Virtual Reality

Build the Team — Launch — Connect — Reinforce — Sustain

Timeline (2018–2023):
PIA with EDC-VC, Open FATHOMWERX, Establish Ventura TechBridge, Innovation Discovery, CRADA for RF Covers, PIA with RDP-21, ANTX Coastal Trident, Women and Minority Event, ONR Summer Faculty, AM Challenge, University Engagement, Technology Workshop, Virtual Tech Expo, Rust-A-Thon, ANTX Coastal Trident, Innovation Discovery, Rust-A-Thon 2.0, Summer Internship, PreEngineering Prgm, Lego FIRST, Robot Rodeo, Tech Expo, Tank Inspection, iHub2.0, REPTX, NavalX Summit, Expanding Network

2018 2019 2020 — 2021 — 2022 — 2023

Logos: MatterLabs, The Port of Hueneme, EDC Economic Development Collaborative Ventura County, FATHOMWERX, TECH BRIDGE, NAVSEA Naval Sea Systems Command, NAVFAC Naval Facilities Engineering Command, NAWC, California Governor's Office of Business and Economic Development

Innovation Pipeline

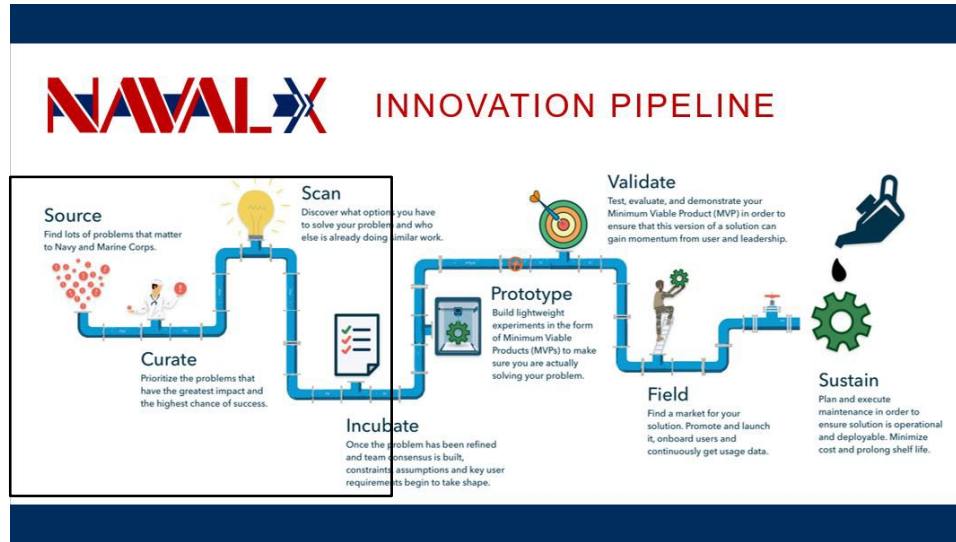Accelerate Capabilities to the Fleet and Warfighter

Source/Curate/Scan

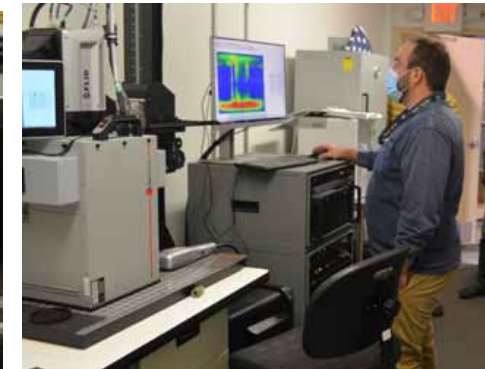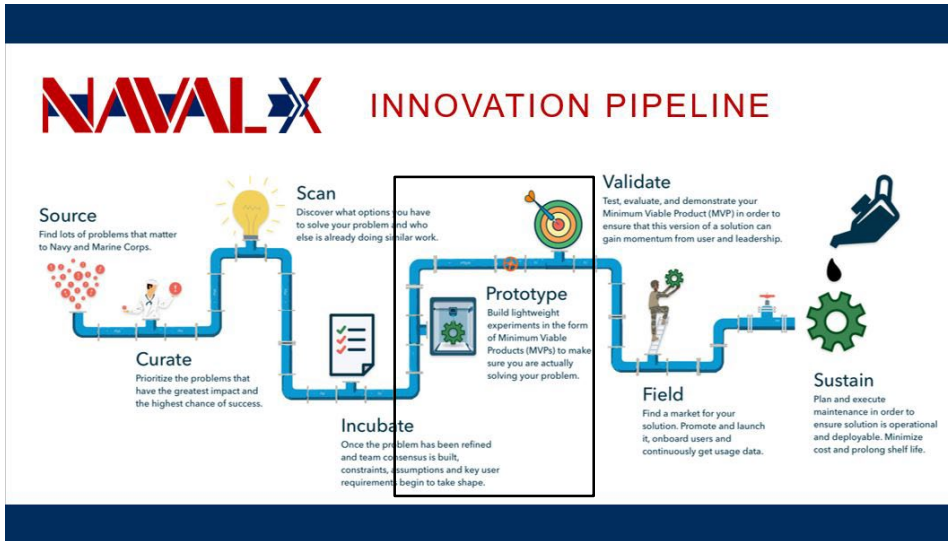## Building and joining an ecosystem to support Innovative thinking

Prototyping @ FATHOMWERX

Innovating in a joint-use collaborative space
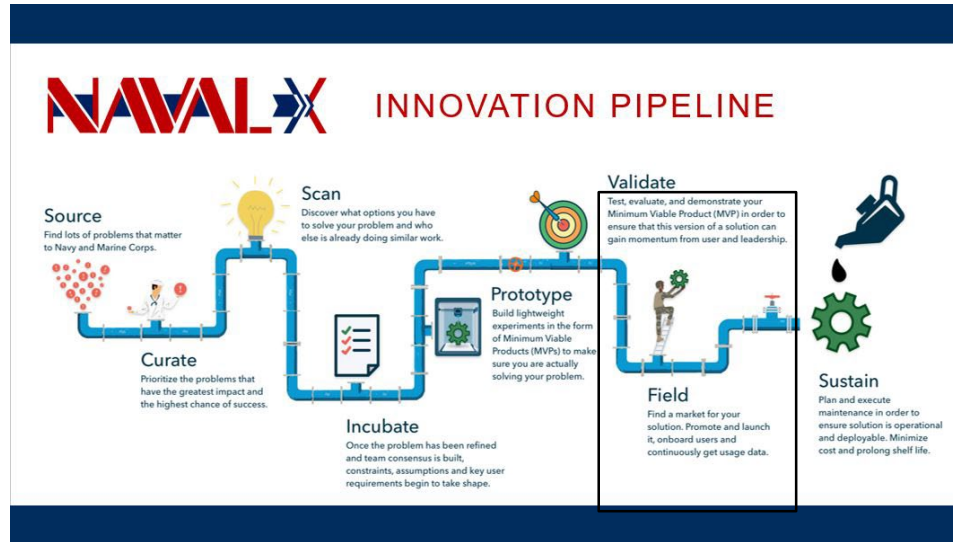

NAVAL-X INNOVATION PIPELINE

FATHOMWERX joins a number of other Innovation labs where innovators can experiment, test and prototype alongside *government, academia, and industry* counterparts in order to *innovate and transfer/transition* capabilities

- *VCEDA 2021 Award Winner for Public/Private Partnership **"In recognition of efforts to enhance the economic vitality of our region through public/private collaboration"***
- *Pacific Coast Business Times winner for 2021 Central Coast **"No Boundaries"** award*

ANTX Coastal Trident: Validate

Validating in a low risk, operationally relevant environment

Planning and Execution Milestones

Concept Development Meeting
- ☐ November 10, 2021

Project Proposals Due
- ☐ January 12, 2022

Initial Planning Meeting
- ☐ January 19, 2022

Mid-Term Planning Meeting
- ☐ March 16, 2022

Final Planning Meeting
- ☐ May 25, 2022

Program Execution
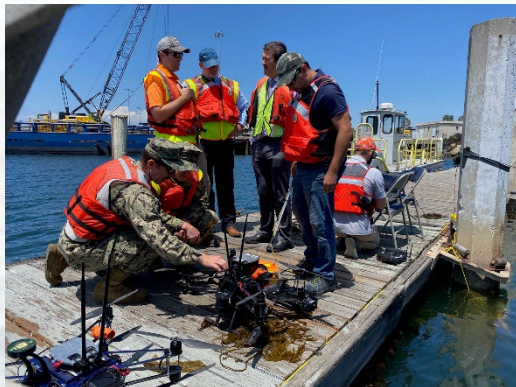- ☐ June through September, 2022

Tech Expo/Open House
- ☐ 14-15 Sept, 2022

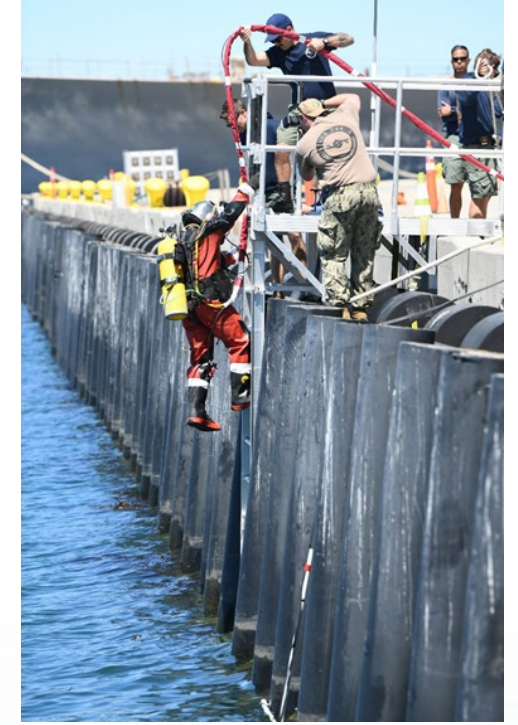**ANTX-Coastal Trident focus areas for 2023 will include:**

- Critical infrastructure security, threat mitigation, and incident response
- In-service engineering, maintenance, and sustainment of surface fleet and expeditionary combat systems
- Port and maritime domain awareness, data fusion, and decision support
- Augmented and virtual reality modeling, simulation, and digital engineering
- Unmanned systems applications, implementation, and countermeasures

Coastal Trident 2022 Summary
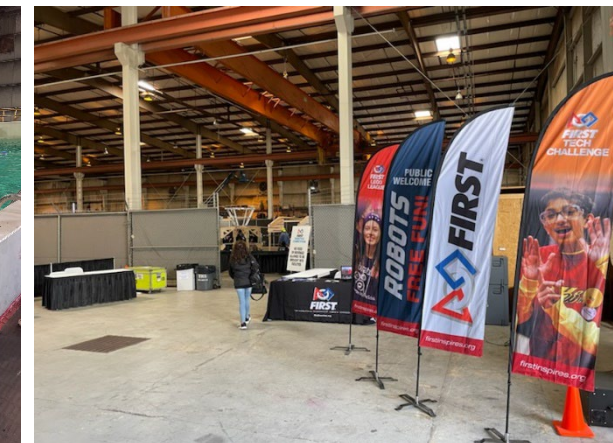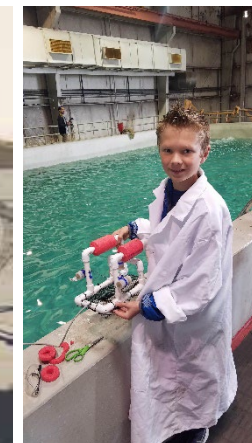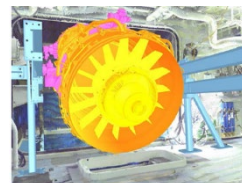
Coastal Trident 2022 Focus Areas:

- Port and Maritime Incident Response

- Port Security and Critical Infrastructure Protection

- Unmanned Systems Applications

- Unmanned Systems Countermeasures

- Domain Awareness and Information Dominance

- Maintenance, Sustainability and Digital Engineering

- Maritime Communication and Data Links

Regional Innovation Programs

- Advanced Naval Technology Exercise: Coastal Trident

- MAINTEX: Rapid identification, experimentation and fielding of maintenance solutions in an operational environment

- SINTAV: Solutions for Inspecting Naval Tanks and Voids

- Red Hill Response Tech Scan

- Marine Mammal Scanning

- sUAS for environmental monitoring

- Rust-A-Thon 2.0

- Innovation Discovery Events

- Joint Industry Day

- Pre-Engineering Program

- STEM Camp, LEGO First

- Robot Rodeo

10

Questions