NAVAL AIR WARFARE CENTER
TRAINING SYSTEMS DIVISION

The United States Navy's principal center for training systems:

[RESEARCH]

[DEVELOPMENT]

[ACQUISITION]

[TEST AND EVALUATION]

[PRODUCT SUPPORT]

NAWC
Training Systems Division
NAVAL AIR WARFARE CENTER

**TSIS Update
CAPT Tim Hill
16 JUN 2021**

[COMMAND MISSION]

+ NAWCTSD

To be the principal Navy center for research, development, test and evaluation, acquisition and product support of training systems, to provide inter-service coordination and training systems support for the Army, Marine Corps, and Air Force and to perform such other functions and tasks as directed by higher authority.

+ TEAM ORLANDO

Support the U.S. Department of Defense's requirements by providing a consolidated inter-service military entity in the Central Florida area for Human Performance, Modeling and Simulation and Training. Facilitate research and collaboration of new technologies, programs and agile processes across the inter-agency to further advance a thriving and innovative environment to best support Service requirements and initiatives for effectiveness and efficiency.

OUR MISSION FOCUSES ON THE HUMAN

[AIR WARFARE] AND MUCH MORE – FY20 SUMMARY*

	FY20	FY16
PERSONNEL	1,563	1,242 (+26%)
Government Civilian	1,271	1,079
CSS	253	123
Military	40	40

+ Naval Aviation

PROJECTS
52

FTE WYS
532

PGM VALUE
$1,900M

+ Surface

PROJECTS
32

FTE WYS
155

PGM VALUE
$324M

+ Undersea

PROJECTS
29

FTE WYS
71

PGM VALUE
$54M

+ Cross Warfare

PROJECTS
60

FTE WYS
185

PGM VALUE
$1,294M

+ Ready Relevant Learning

PROJECTS
4

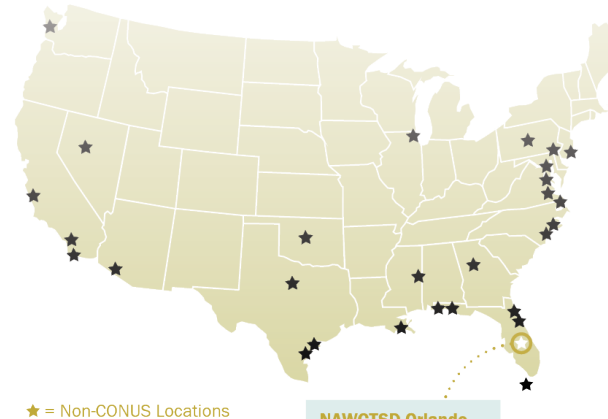FTE WYS
80

PGM VALUE
$51M

+ International

PROJECTS
30

FTE WYS
83

PGM VALUE
$675M

*All numbers approximate and represent only funds currently committed for NAWCTSD execution

[NAWCTSD] Sites

NOTE:
Digital Radio Management System support at **20** Navy sites between NCTE and Ranges, **7** USAF sites, **2** U.S. Army sites

CNAP	Devices	Contractor	ISEs
North Island	33	105	10
Mugu	12	10	1
Pendleton	11	37	5
Miramar	17	65	5
Yuma	3+MAWTS	26	0
Whidbey Island	40	119	6
Lemoore	13	53	1
Tinker AFB	16	37	2
★ Kanehoe Bay	4	5	2
★ Atsugi	2	2	1
★ Futenma	3	3	1
★ Iwakuni	8	12	2

CNAL	Devices	Contractor	ISEs
Norfolk	36	117	10
Oceana	21	71	3
Jacksonville	64	161	8
Mayport	9	27	1
Quantico	4	6	1
Beaufort	5	19	0
New River	19	55	4
Cherry Point	15	57	6

RESFOR	Devices	Contractor	ISEs
New Orleans	3	5	0
Fallon	3	2	0
Fort Worth	9	19	0
Key West	1	2	0
Lakehurst	3	7	0
Norfolk	2	4	0

USMC/CNIC/CNATT	Devices	Contractor	ISEs
Firefighting Training at all USN/USMC bases	136	2	0

★ = Non-CONUS Locations

NAWCTSD Orlando
1166 Gov't Personnel
150 Contractors

SUBMARINE LEARNING CENTER	Devices	Contractor	ISEs
Groton, CT	50	9	2
Norfolk, VA	21	6	1
Kings Bay, GA	25	8	1
San Diego, CA	15	6	1
Bangor, WA	28	8	1
★ Pearl Harbor, HI	32	6	1
★ Guam	5	0	0

INTERNATIONAL PROGRAMS	Devices	Contractor	ISEs
★ Australia	8	25	1
★ Kuwait	5+	24	0
★ Taiwan	3	5	0
★ Oman	300+	1	0
★ Iraq	4	2	0
Mayport (H-60 Saudi)	3	2	0

3124 people supporting 1573 training devices at 169 sites worldwide Generating Fleet Readiness

CNATRA	Devices	Contractor	ISEs
Kingsville	13	17	2
Corpus Christi	34	36	1
Pensacola	46	25	5
Whiting	79	50	3
Meridian	11	30	2

CNATT	Devices	Contractor	ISEs
Pensacola	26	23	3
Lakehurst	3	14	0

BUMED	Devices	Contractor	ISEs
Cherry Point	15	3	0
Norfolk	22	3	1
Jacksonville	5	2	0

SURFACE TRAINING SITES	Devices	Contractor	ISEs
Newport, RI	52	26	2
NB Norfolk	52	47	2
NB Little Creek	7	0	1
Mayport	16	24	5
NB San Diego	62	69	5
NB Coronado	7	0	1
★ Pearl Harbor	8	10	1
★ Japan (Yoko and Sasebo)	2	2	0
Naval Station Everett	2	4	1
Great Lakes, IL	19	62	2
★ Rota	1	0	0
★ Bahrain	1	0	0
Pascagoula/Bath	2	0	0

COVE	Devices	Colleges/Universities
NETC	109	88

NAWCTSD Public Release 18-ORL0040 Distribution Statement A – Approved for public release; distribution is unlimited.

4

[COMMAND ACCOMPLISHMENTS] A FIVE-YEAR PERSPECTIVE

- Organization
  - Updated strategic NAWCTSD Strike Plan
  - Streamlined processes to allow for growth
  - Changed to NAVAIR MAO with Mission focus
  - Stood up RRL TSPM
  - F-35 Training PMO PDPM
  - Completing Prod Mgt Group stand up
  - Divesting of non-training systems workload

- Personnel
  - Implemented product-based staffing
  - Increased partnerships for leveraging talent
  - "Right-sizing" Gov/CSS staffing mix

- Capability
  - HPC stack
  - Consistent persistent LVC testbed as Operation Blended Warrior turned into LVCDOC

- Extensive Facility Updates
  - Significant increase in HTS classified processing
  - 300%+ increase in collateral classified processing
  - Replaced 30 year old cubes with state of the art individual seating & increased capacity by 100+
  - Updated IT & cell phone reception infrastructure
  - Refurbished static aircraft displays
  - HVAC & storm drain infrastructure improvement projects on contract
  - Access control updates & law enforcement interoperability enhancements
  - Hybrid work readiness ongoing

[COMMAND ACCOMPLISHMENTS] A FIVE-YEAR PERSPECTIVE

- ## Collaboration
  - Established Central FL Tech Bridge / Tech Grove
  - 30% increase in Educational Partnership Agreements
  - 260% increase in MOA's
  - Three additions to Team Orlando (STE CFT, USAF SOC, and JAIC)
  - Began leveraging UCF FIEA and NSIN

- ## Talent Pipeline
  - STEM Outreach
    - 462% increase in STEM students impacted
    - 3,369% increase in teachers reached
    - 17% increase in volunteers/mentors
  - Established Central FL STARBASE

- ## Mitigating & emerging from COVID-19

- ## Efficiency
  - Leveraging non-FAR agreements (e.g. OTA)
  - Leveraging expanded authorities / delegations
  - Tailoring processes to differentiate our work

- ## Fleet Capability Delivered
  - Fielded initial wave of COVE and NSTS related to MCCAIN and FITZGERALD incidents
    - NSTS specifically credited with avoiding collision at sea
  - Fielded state-of-the-art LCS training that enables "train to qualify"
  - NADTC LANT delivered as prototype- Fleet is utilizing DMT
  - NASMP fidelity improvements
  - RRL: from vision to three active contracts employing ~10% NAWCTSD workforce; 6741st RRL content fielded
  - 450% increase in FMS efforts
  - FTSS continued during global pandemic
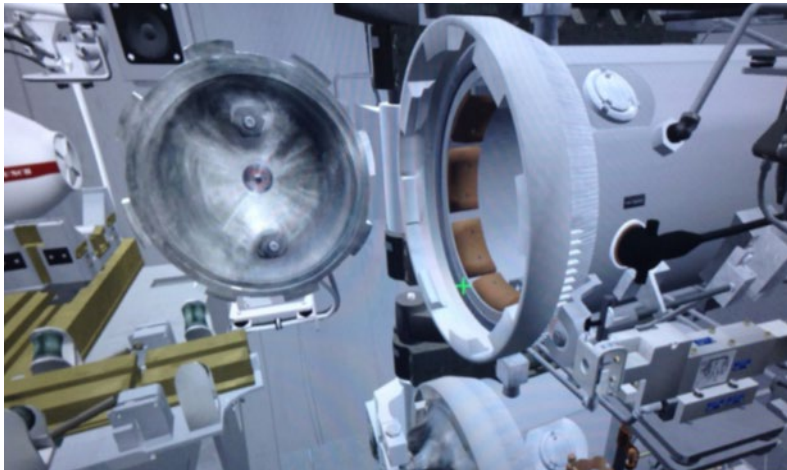
[FOCUS AREAS]

+ **FLEET READINESS**
  - Maintain relevant fielded devices that support current ops

+ **READINESS TRAINING**
  - Delivering integrated warfighting capability/networked training opportunities
  - Live, Virtual, Constructive training solutions

+ **SKILLS TRAINING**
  - Meet needs of Navy career path training
  - Implement intelligent tutoring and AI across training areas
  - Develop embedded assessment and data analysis tools

+ **CYBER SECURITY**

+ **FOSTER AN ECOSYSTEM OF INNOVATION**

+ **INCREASED INTERNAL EMPHASIS ON DATA-DRIVEN DECISIONS**

+ **PROCESS EFFICIENCIES UNDER NEW NAVAIR MISSION ALIGNED ORGANIZATION**
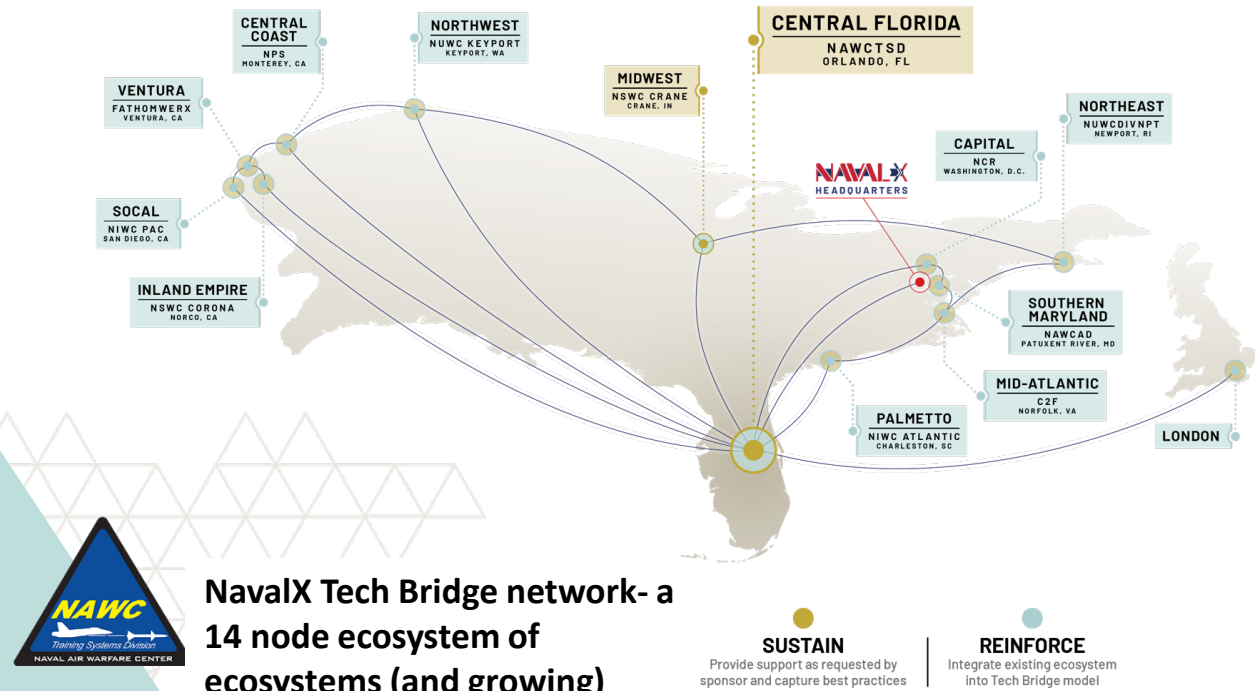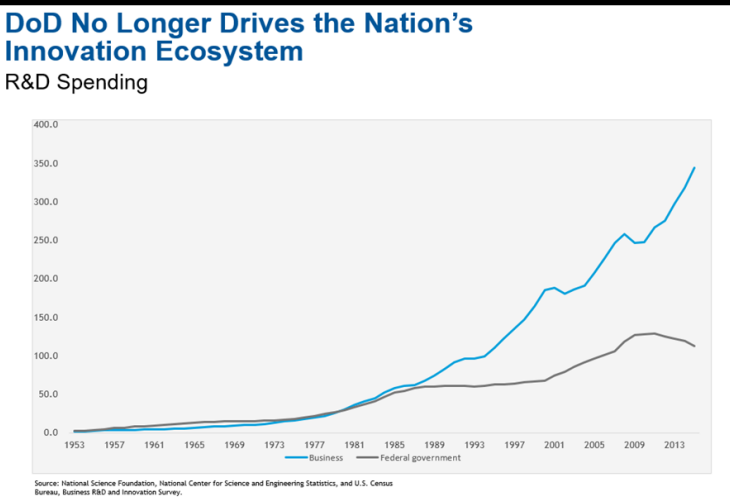
[COLLABORATION]

+ We meet Fleet needs *together!*

NavalX Tech Bridges
Ecosystem of Ecosystems

DoD No Longer Drives the Nation's Innovation Ecosystem
R&D Spending

NavalX Tech Bridge network- a 14 node ecosystem of ecosystems (and growing)
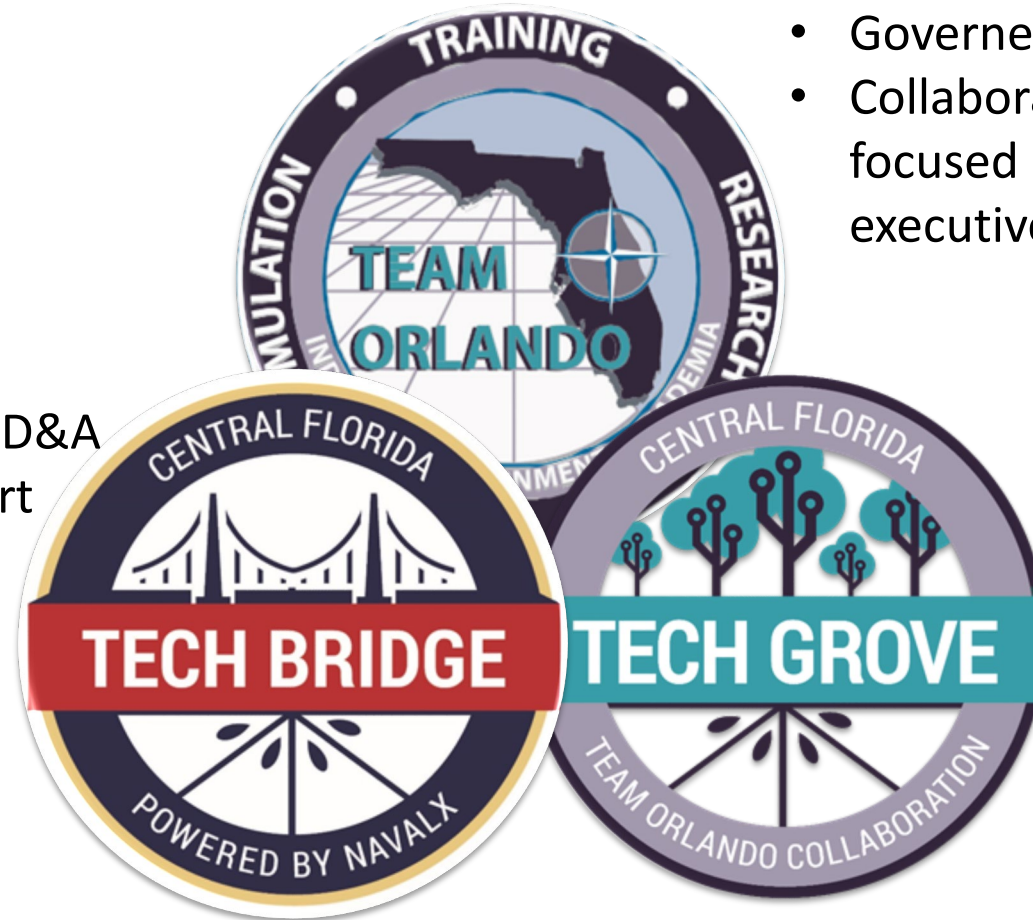
Central FL Tech Bridge/Grove

- Run via PIA with UCF Research Foundation
- 4 Lines of Effort
  - Ecosystem
  - Workforce Development
  - Innovation
  - Sustainment
- Innovation Space (Partnership IV)
  - Easy access for non-DOD
  - "Open architecture" for multiple uses
    - Ongoing projects
    - Prize challenges
    - "Tech talks" / community gatherings
    - STEM outreach

Central Florida Ecosystem

Community (DoD lead)
- Governed by Charter and CONOPS
- Collaborate, share Government focused information & ideas at the executive & senior leader level

Enabler
- Governed by NavalX – ASN RD&A
- Provides connectivity/support to other Navy ecosystems, SMEs & barrier removers

Capability
- Governed by PIA & CONOPS
- Physical & virtual environment collaborating at a tech innovation level