



**Calhoun: The NPS Institutional Archive**  
**DSpace Repository**

---

Acquisition Research Program

Acquisition Research Symposium

---

2022-05-06

# Harnessing the Power of Digital Platforms to Accelerate Adoption Rates of Emerging Technologies and Innovations

Jackson, Carly

Monterey, California. Naval Postgraduate School

---

<http://hdl.handle.net/10945/70285>

---

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

*Downloaded from NPS Archive: Calhoun*



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

**Dudley Knox Library / Naval Postgraduate School**  
**411 Dyer Road / 1 University Circle**  
**Monterey, California USA 93943**

<http://www.nps.edu/library>



# Harnessing the Power of Digital Platforms to Accelerate Adoption Rates of Emerging Technologies and Innovations

19<sup>th</sup> Annual NPS Acquisition Research Symposium

*Carly Jackson*

S&T Director and Chief Technology Officer

NAVWAR Systems Command



# First All-Digital Advanced Naval Technology Exercise (ANTX)



Project Overmatch is as much about *delivering* the NOA as it is about *changing the way we deliver capability...*

Defense Industry

Commercial Industry

Academia and Think Tanks

DoD Decision Makers

Acquisition Community  
(PEOs, SYSCOMS)

Naval Research and  
Development Establishments

Navy and Marine Corps  
Operating Forces



*Integrating and assessing emerging technologies with digital platforms, Naval data sets, and relevant Fleet architectures.*

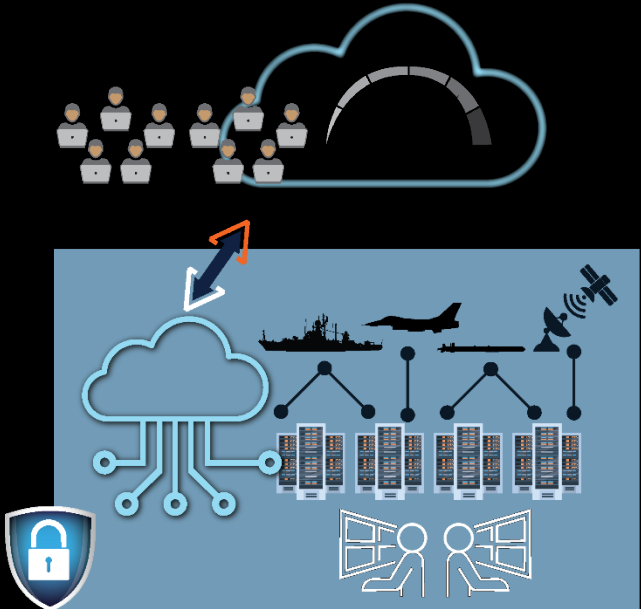
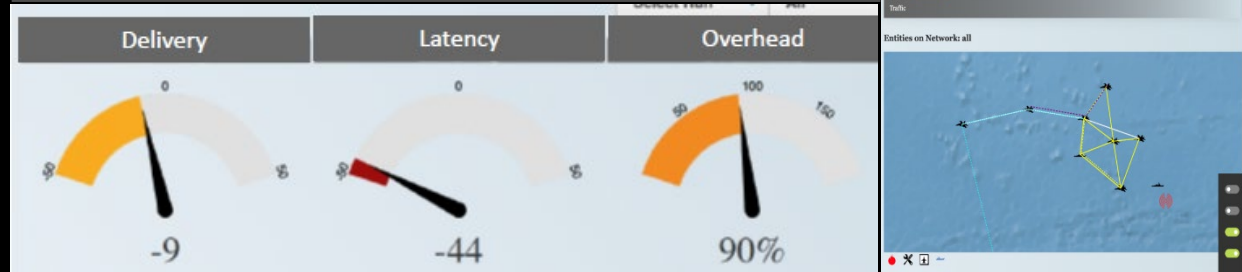
## iRIL Features:

- GOTS based
- Easily integrated with models from academia, industry, labs
- Can be federated with mission simulators
- Allows trading fidelity for scalability
- Enables rapid prototyping and evaluation of emerging protocols/architectures
- **Pipelined Fleet training-quality Data Sets**

✓ Obj 1: Inform Partner R&D

✓ Obj 2: Identify Innovative NOA S&T

### Automated performance assessments



### Foster meaningful engagements with traditional/ non-traditional partners



# Outcomes

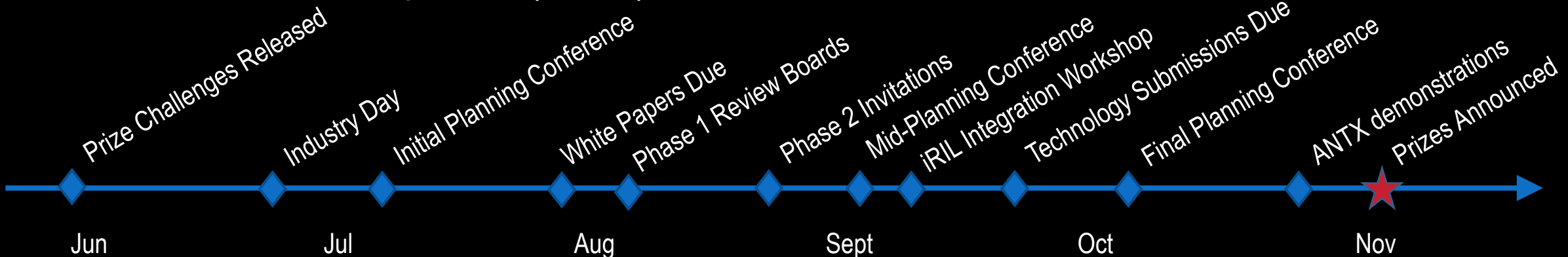
## ▼ Networks Challenge: 16 White Papers → 6 Finalists

- Approaches spanning traditional MANET to deep-learning techniques
- First Place – goTenna, Second Place – Raytheon BBN

## ▼ AI Challenge: 30 White Papers → 8 Finalists

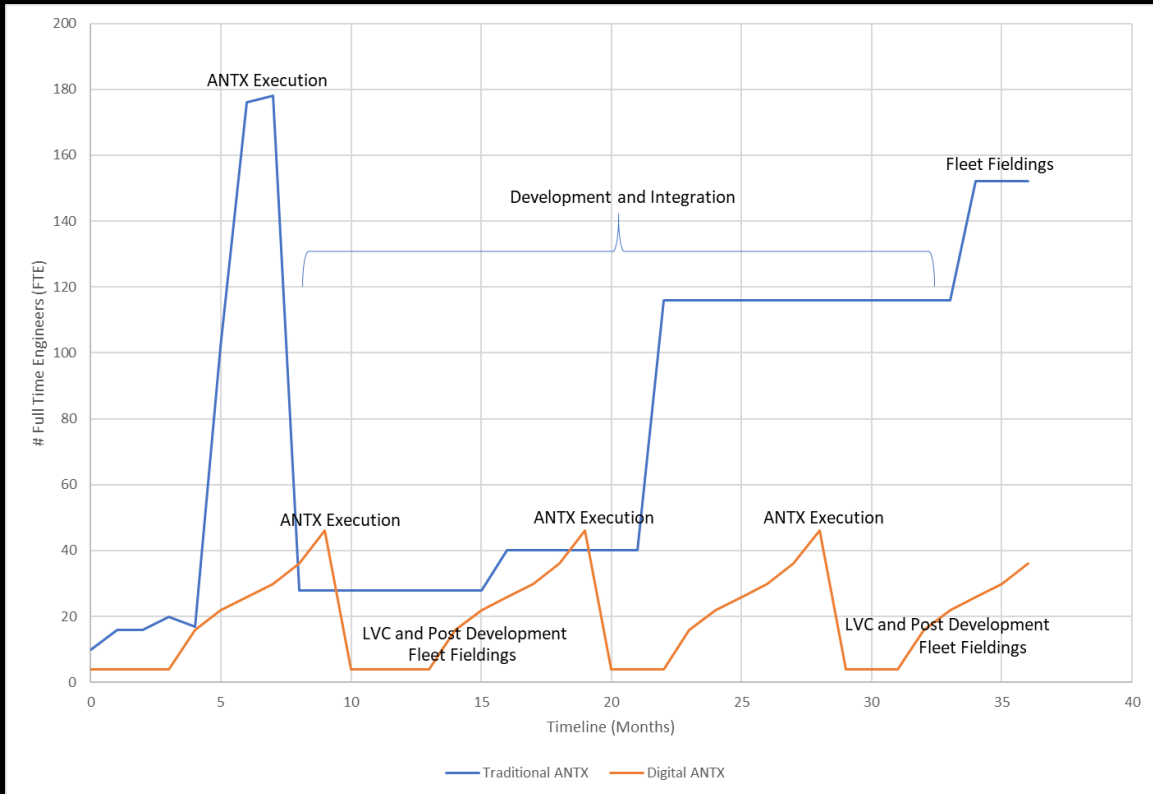
- Diverse submissions with focus on anomaly and threat detection
- First Place – Big Bear AI, Second Place – L3 Harris

## ▼ All Companies Continuing Development with internal research and development (IR&D)



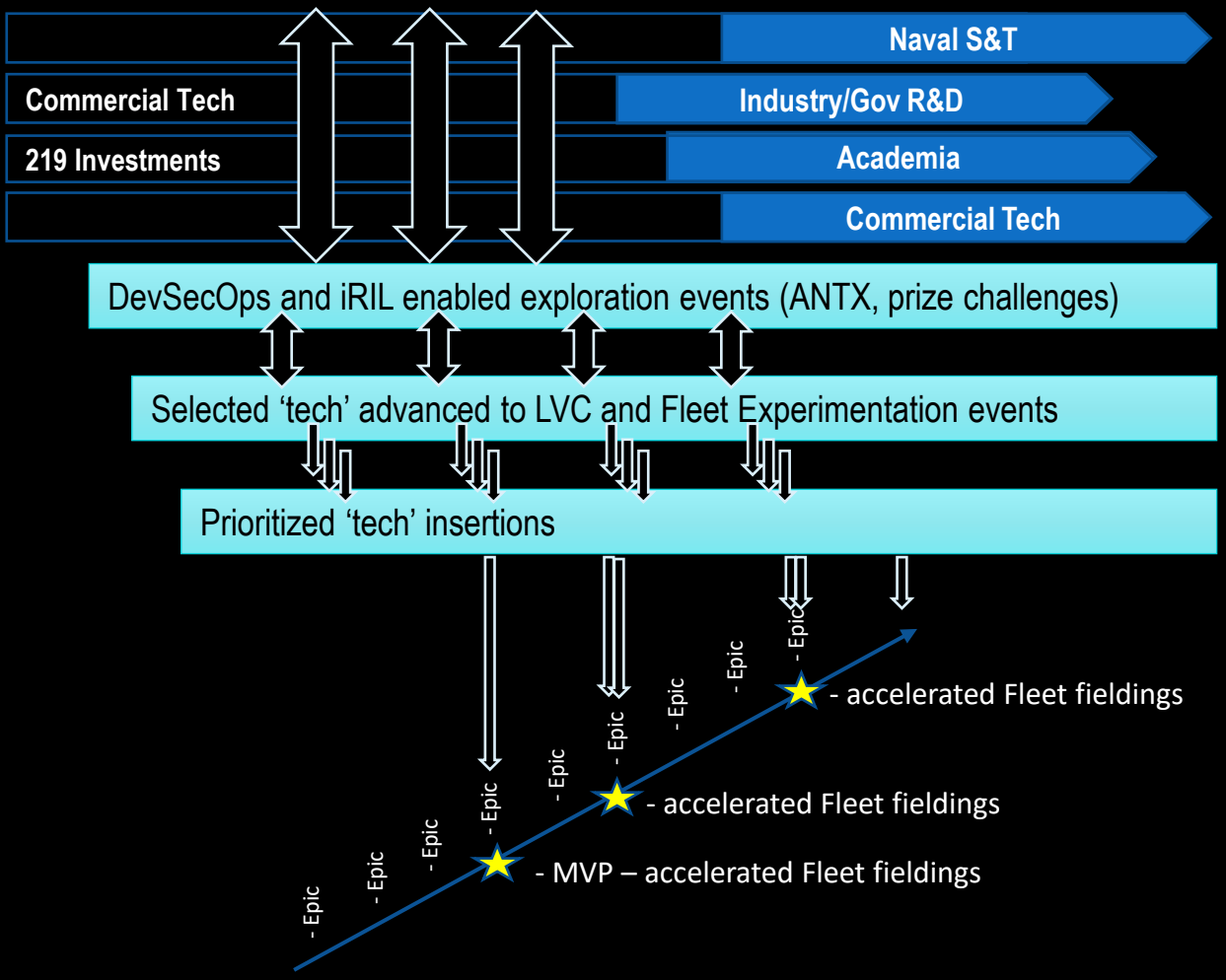


# Outlook



**Faster, iterative cycles from ANTX to Fleet Fieldings**

Legend:  
 iRIL – integrated Rapid Innovation Lab  
 ANTX – Advanced Naval Technology Exercise  
 LVC – Live, Virtual, Constructive  
 MVP – Minimum Viable Product





# Recommendations and Path Forward



- ▼ Networks Follow-On
- ▼ AI Follow-On
- ▼ LVC Collaboration
- ▼ iRIL Development & Creation
- ▼ FAST Framework

