



NATIONAL SECURITY
INNOVATION NETWORK



NSIN Overview

Mission

We build networks of innovators to generate new solutions to national security problems.



- The Department of Defense's (DoD) current model for problem-solving is expensive and inefficient.
- The complexity of problems the DoD faces and the speed at which solutions are required means new problem solvers are critical.
- Adding intellectual diversity from non-traditional solution providers (e.g. the academic and early-stage venture communities) is necessary to solve problems more economically, faster, and better.
- A networked approach enables the consistent problem-solving capability for the DoD that helps bridge the civil-military divide and improves outcomes for service members.

NSIN by the Numbers

NSIN Funding
FY 2019-2021:

\$95
million dollars

NSIN has helped

909

DoD organizations solve

963

problems
by generating

1,366
unique solutions.

Engaged

6,925

new people in the
National Security
Innovation Base.

Supported

370

new companies to enter
the National Security
Innovation Base and spun
out **33 of DoD-funded
technologies.**

Companies in NSIN
programs have raised

\$640

million in private
funding and

\$295

million in DoD funding.



Who

- › DoD program office reporting to the Under Secretary of Defense for Research & Engineering
- › Program of Record FY20
- › NSIN pays for all programming



What

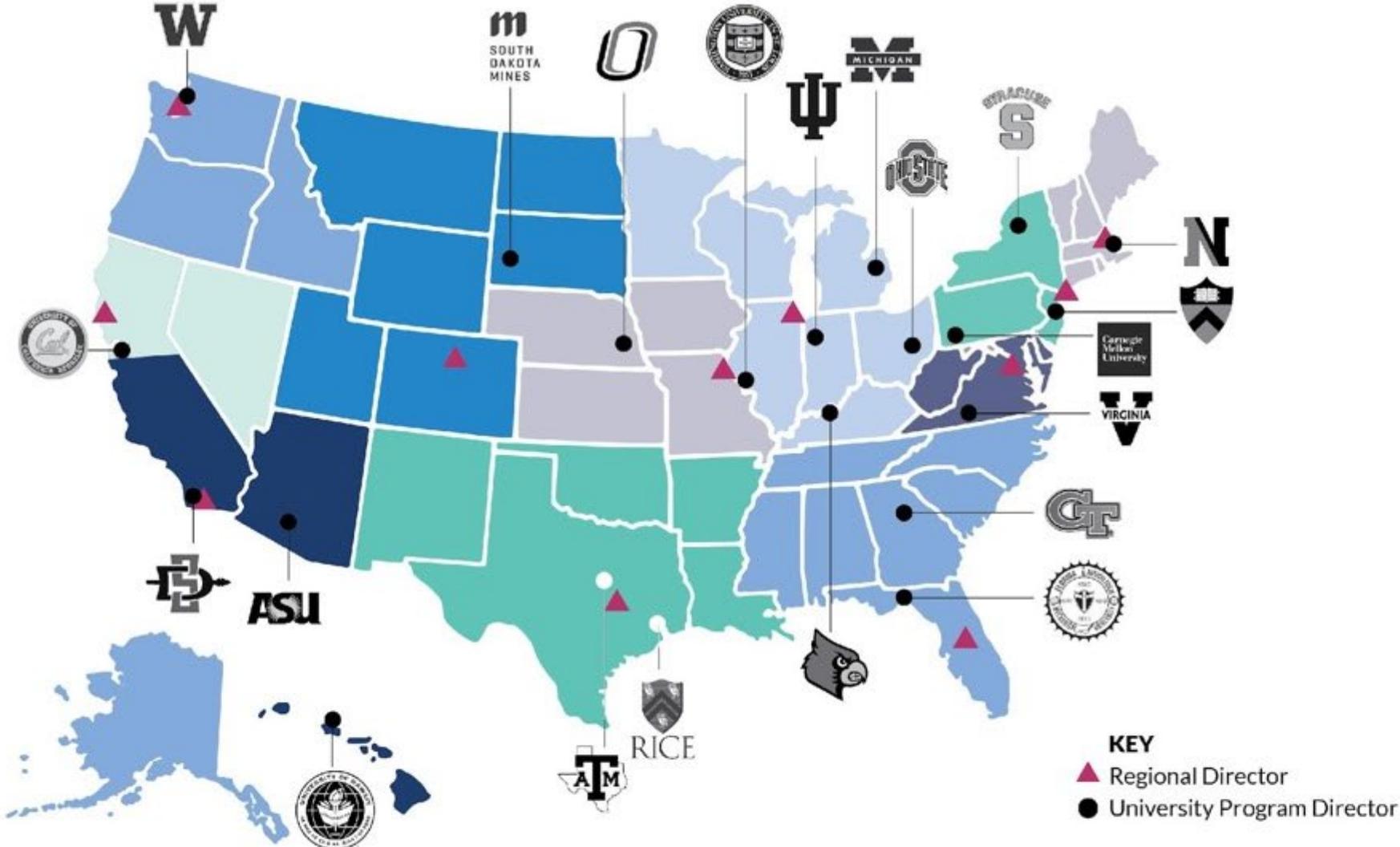
- › Partners with universities and the venture community to bring innovative tools and solutions to warfighters



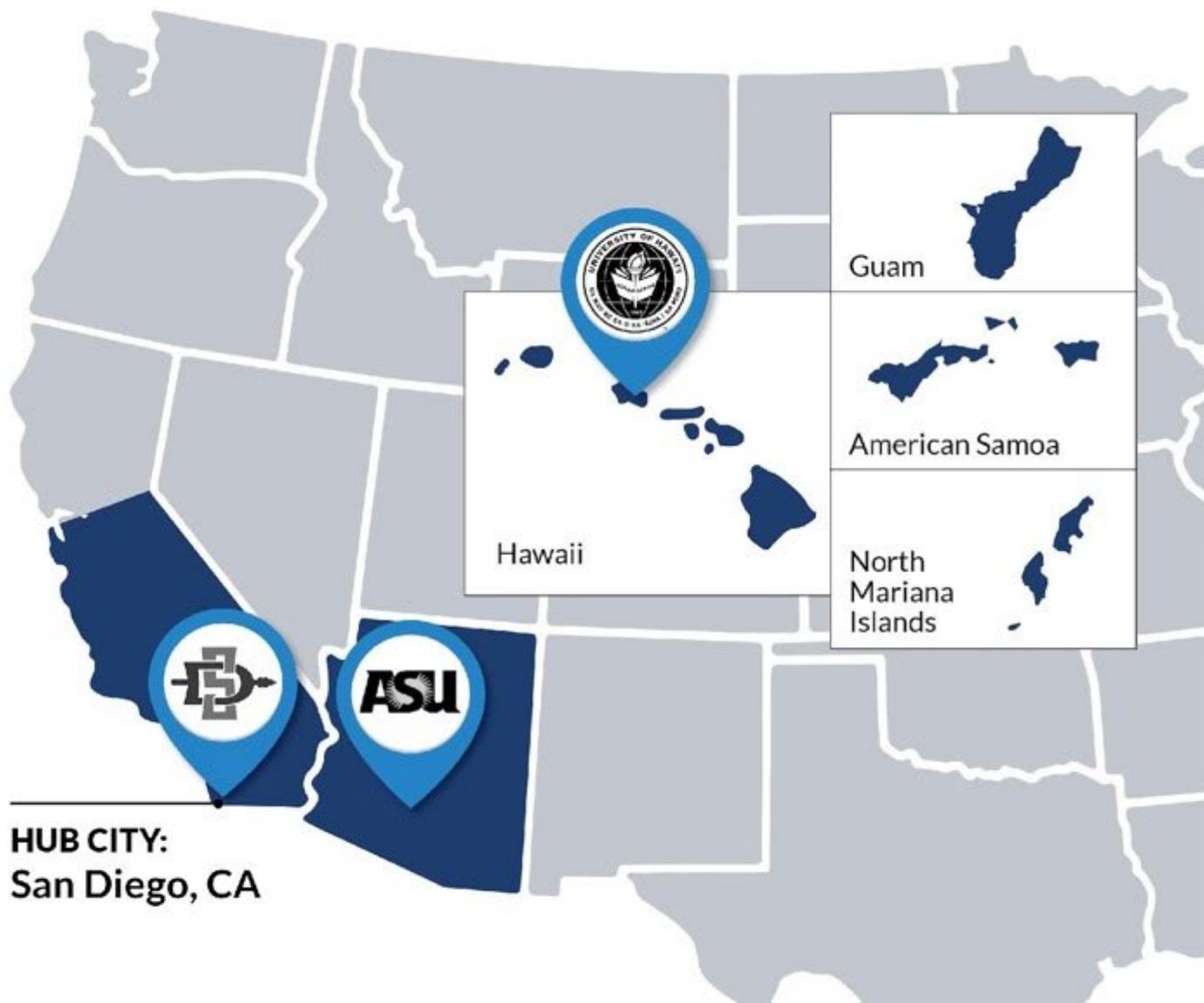
Where

- › HQ in Arlington, VA
- › 33 regional positions across 20 states
- › 21 embedded personnel at universities

NSIN University Partners



Pacific-South Region



HUB CITY:
San Diego, CA



Jesse Gipe
Pacific-South Regional Director



Gloria Choo
University Program Director,
University of Hawai'i at Mānoa



Samantha Hiller
University Program Director,
Arizona State University

A New Model for National Security Innovation

NSIN delivers on its mission through three distinct portfolios:



National Service

Creates pathways to inject new talent into the DoD.



Collaboration

Integrates new communities of problems solvers through collision events.



Acceleration

Develops dual-use ventures to address capability gaps from commercial, academic, and DoD lab technology, processes, and ideas.



NSIN



National Service

Identifying the best and the
brightest to work for the DoD

.....

X Force Fellowship Summer 2022 UH Manoa

Applicants

- Computer Science
- Electrical Engineering
- Business

Sponsors

- Army G3X
- Marines Aviation
- US Coast Guard

Skillsets

- Cybersecurity
- Data visualization
- Software Development
- Business Strategy





Collaboration

Integrates new communities of problems solvers through collision events.

Hacking for Defense (H4D) UH Manoa

Applied Problem Solving Course

- Pair DoD problems with student teams to develop solutions to STEM, business, and/or policy changes
- Lean Startup Principles – Building partnerships around problems

Spring 2022 (3rd Semester)

- 15 students – ICS, ENG, BUS, POLI SCI
- Sponsors – Jungle Academy, 3d Battalion, Pearl Harbor Shipyard





Acceleration

Develops dual-use ventures to address capability gaps from commercial, academic, and DoD lab technology, processes, and ideas.

Emerge Accelerator

Spinning out new
dual-use ventures



223 University IP teams from 18
universities across the country

Final down select 35 out of 223
teams

6 teams from UH Manoa for 2
cohorts >> \$15K each

Propel

Supports the DoD's effort to maintain its competitive edge by collaborating with innovative and non-traditional partners and influencing the development of solutions delivered by early-stage ventures and accelerates their transition readiness.

- ▶ Three-to-four month accelerator program for the DoD and 10-12 dual-use ventures to work together to shape solutions that solve DoD customer problems.
- ▶ Includes targeted services and DoD-specific mentorship and education to prepare early-stage ventures for DoD adoption.
- ▶ Early-stage dual-use ventures are better prepared to successfully transition solutions to the DoD.
- ▶ Can lead to multiple adoption opportunities including SBIR Phase I, direct to Phase II, OTAs, BAAs, etc.

In Action



P I S O N



Sponsor: PEO Digital

Project: Human-Machine Teaming

Solution: A participant in the 2019 program, Pison, explored adopting a wearable device intended to assist Parkinson's patients to defense needs:

- Pison contracted with several DoD organizations, securing more than \$7 million in research and development funding.
- Pison's first product that enables gesture control with autonomous systems and software, such as

ATAK, is

being sold to the DoD.

Learn More about Propel: www.nsin.mil/propel



**NATIONAL SECURITY
INNOVATION NETWORK**



Connect With Us

Gloria Choo

University Program Director, UH Manoa
UH Office of Innovation & Commercialization
National Security Innovation Network
U.S. Department of Defense

gchoo@nsin.us

➤ Join Our Network of Problems Solvers unum.nsin.us

Programs of Record

National Service

EXPERTS

Identifies mid-career faculty experts with STEM, cyber, or entrepreneurial backgrounds and pairs them with DoD leadership for periodic consults over the course of three months.

HIRETHON

Facilitates access for DoD organizations with direct or expedited hiring authority to hard-to-reach talent.

TECHNOLOGY AND NATIONAL SECURITY FELLOWSHIP

Embeds a technologist with a DoD organization or Congressional office to support strategy, policy, and special projects for one year.

TECH SQUAD

Connects early-career STEM professionals with DoD units to solve tech-oriented national security problems collaboratively.

X-FORCE FELLOWSHIP

During the summer, pairs recent graduates and current students with a DoD organization to solve problems ranging in complexity and across disciplines.

Collaboration

BOOTCAMP

Teaches service members how to use Human Centered Design to develop MVP solution concepts for problems that directly affect their command.

CAPSTONE

Pairs student teams with DoD to solve challenge as a part of an independent study or practicum course.

HACKING FOR DEFENSE (H4D)

Utilizes principles of entrepreneurship to solve national security problems as part of a university course.

HACKS

Brings together civilian and military innovators develop novel concepts to solve DoD problems.

MAKER

Offers the required funding or the technical expertise necessary to construct prototypes from NSIN generated concepts.

SOURCE

Presents opportunities for Service Members to provide bottom-up, direct feedback to senior leaders for utilization and adoption through virtual innovation challenges.

Acceleration

COMPASS

Focuses on working with incubators and accelerators in low-income states to source new participants to engage in national security problem-solving opportunities while developing experience to do business with the DoD.

EMERGE

Connects DoD mission partners (e.g., operational units, program offices, etc.) with emerging technology teams and startups at our nation's top research universities.

FOUNDRY

Facilitates the development of startups in the national interest as part of a DoD Lab-to-market tech commercialization program.

PROPEL

Partners with commercial startup accelerators to lower barriers to entry for dual use ventures and lowers risk for DoD end users in discovering novel solutions.

STARTS

Provides unique opportunities to early-stage venture teams for access to public capital and follow-on funding by DoD problem sponsors.

VECTOR

Seeks prior Hacking for Defense and Hackathon teams to compete for a follow-on contract.



**PACIFIC
IMPACT
ZONE**



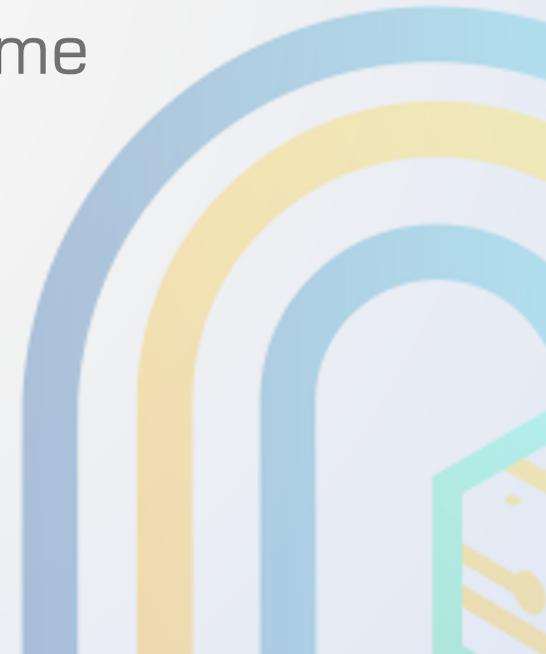
Hawaii Dual Use Task Force Meeting #2

23 Feb 2022



Agenda

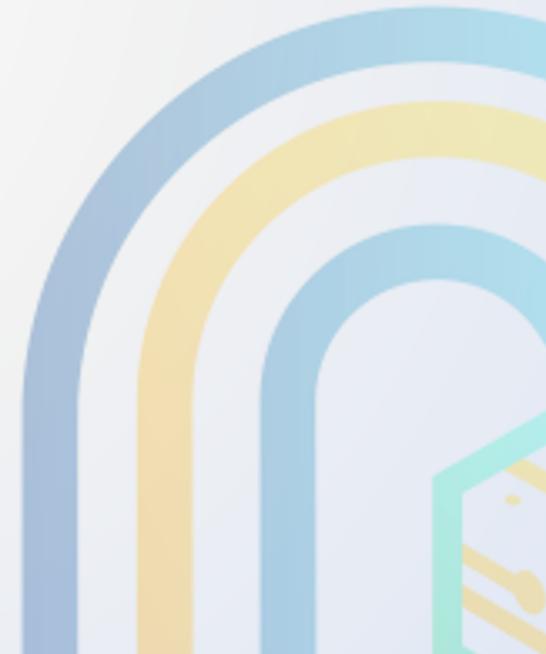
- **Old business**
 - Acceptance of prior meeting minutes
- **New business**
 - Guest speaker: Ms. Gloria Choo, NSIN
 - Upcoming stakeholder presentations
- **Next meeting**
 - Set regular monthly meeting day / time
- **Adjourn**





Housekeeping

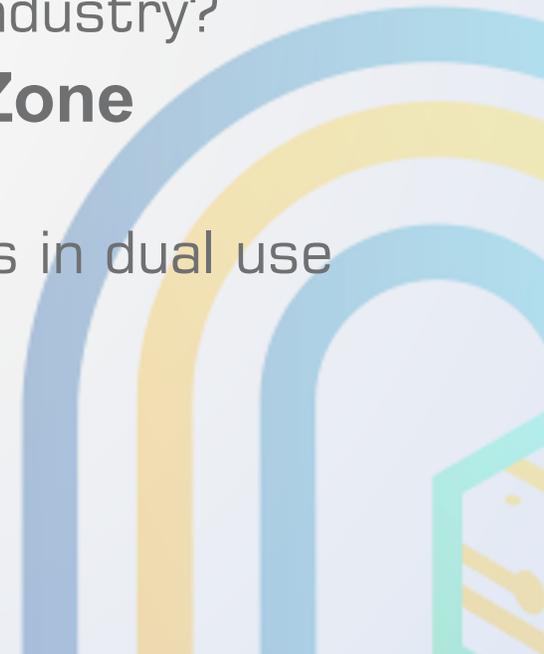
- This event is subject to Sunshine Law
- This event will be recorded
- Please mute microphones unless actively speaking





Dual use community speakers

- **Mar: Ms. Gloria Choo, NSIN University Director, Hawaii (confirmed)**
 - NSIN and “non traditional sources of innovation” for DoD / dual use
- **Apr: COL James Roche, Chief PACAF A8X (tentative)**
 - PACAF A8X and the role of innovation for USAF
- **May: Dual use community panel (tentative)**
 - Mix of small to medium / large dual use businesses, what are the greatest needs of the HI dual use industry?
- **Jun: Ms. Bernice Glenn, Pacific Impact Zone (confirmed)**
 - The crucial role workforce development plays in dual use and economic development





Suggested recurring TF schedule

- Last Wednesday of each month at 2PM HI time

