SPAWAR
Systems Center
PACIFIC

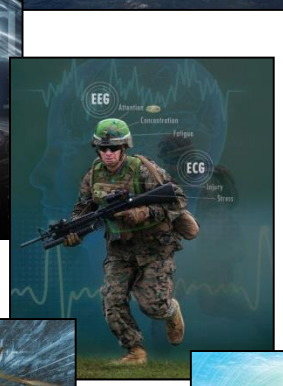
Space and Naval Warfare Systems Center Pacific

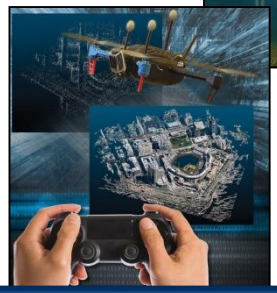
Command Overview

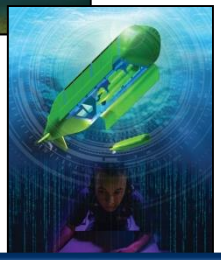
SPAWAR
Systems Center
PACIFIC

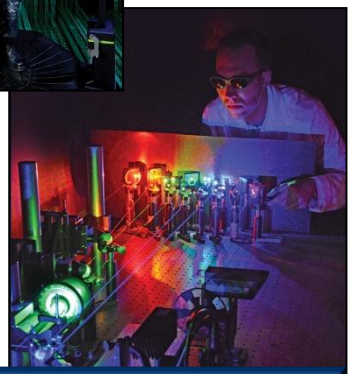
SSC Pacific Mission

From Concept to Capability via…









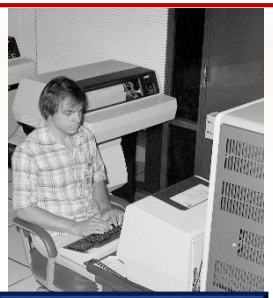
Research, development, engineering, and support of integrated C4ISR, cyber, and space systems across all warfighting domains and to rapidly prototype, conduct test and evaluation, and provide acquisition, installation, and in-service engineering support.

SSC PAC Support in the Pacific Region

SSC PAC: A Legacy of Discovery for 75 Years

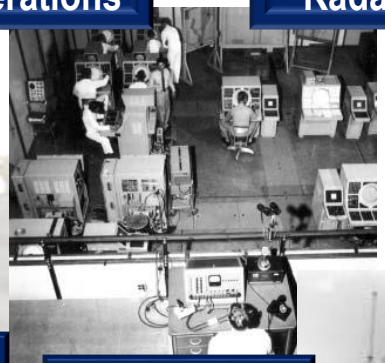
Arctic Submarine Operations

Radar / EW



ARPANET

Personalized Assistant that Learns (PAL)



NTDS

Laser Research

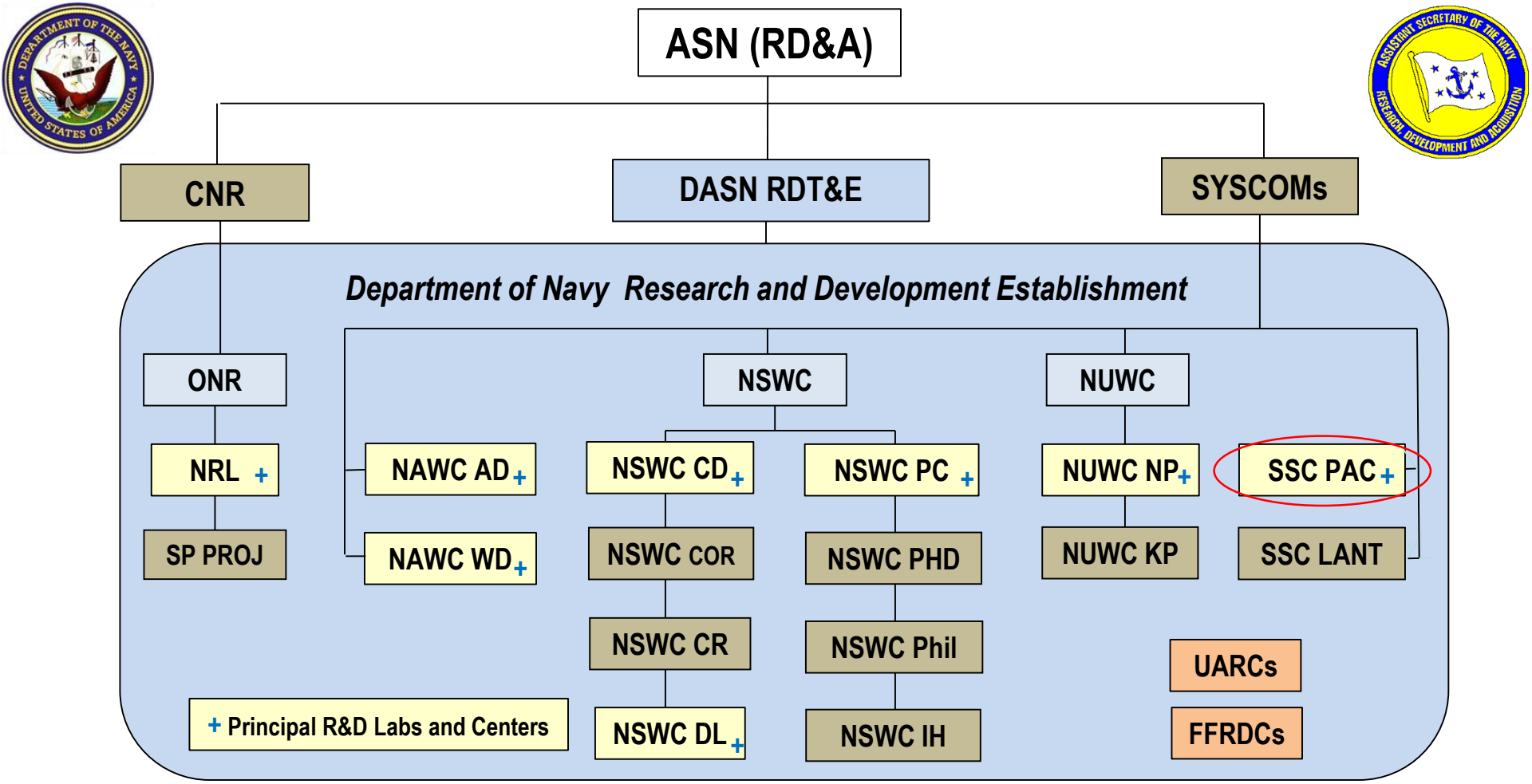
Polaris

SHF SATCOM

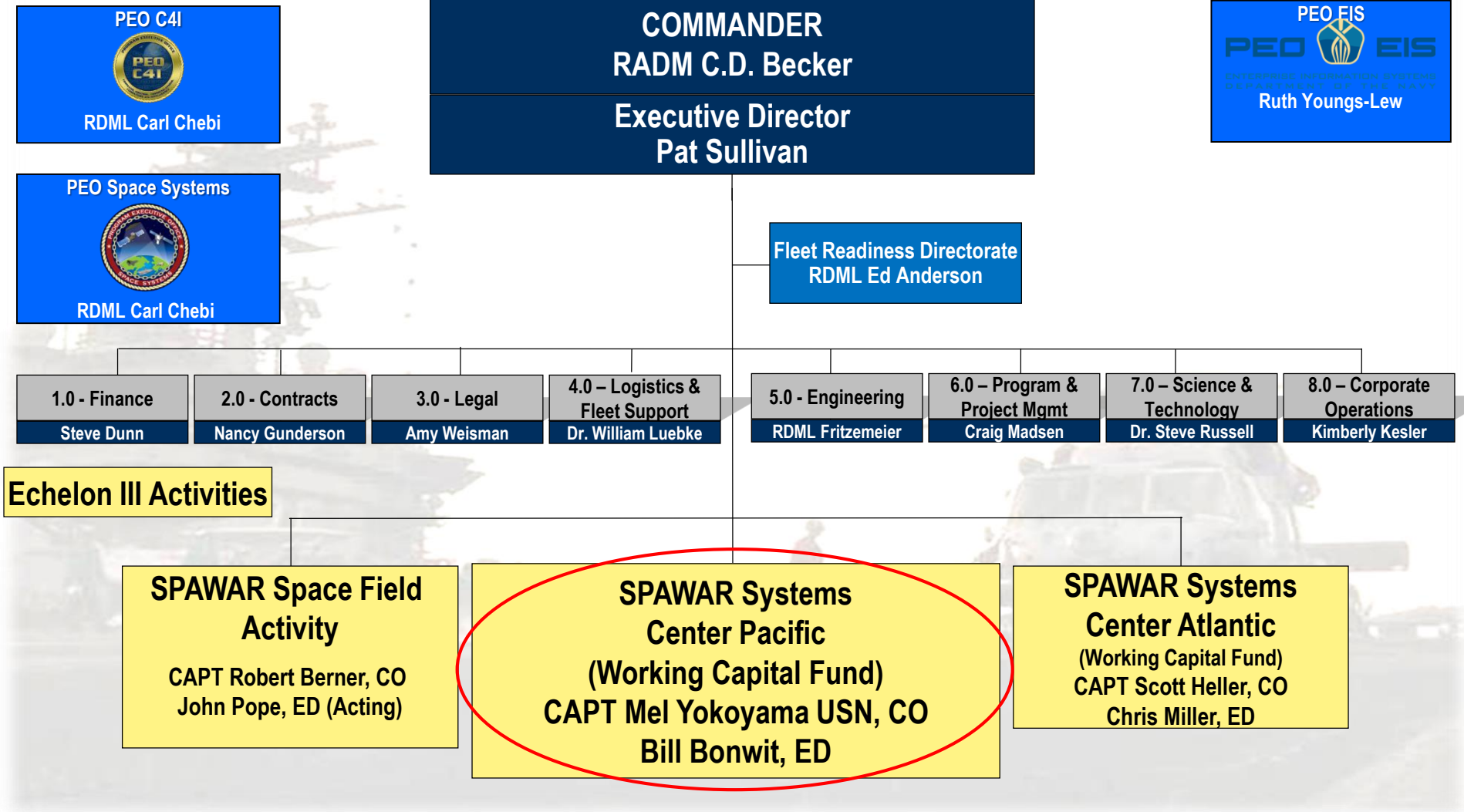
Underwater Acoustics

Ship-launched Torpedoes

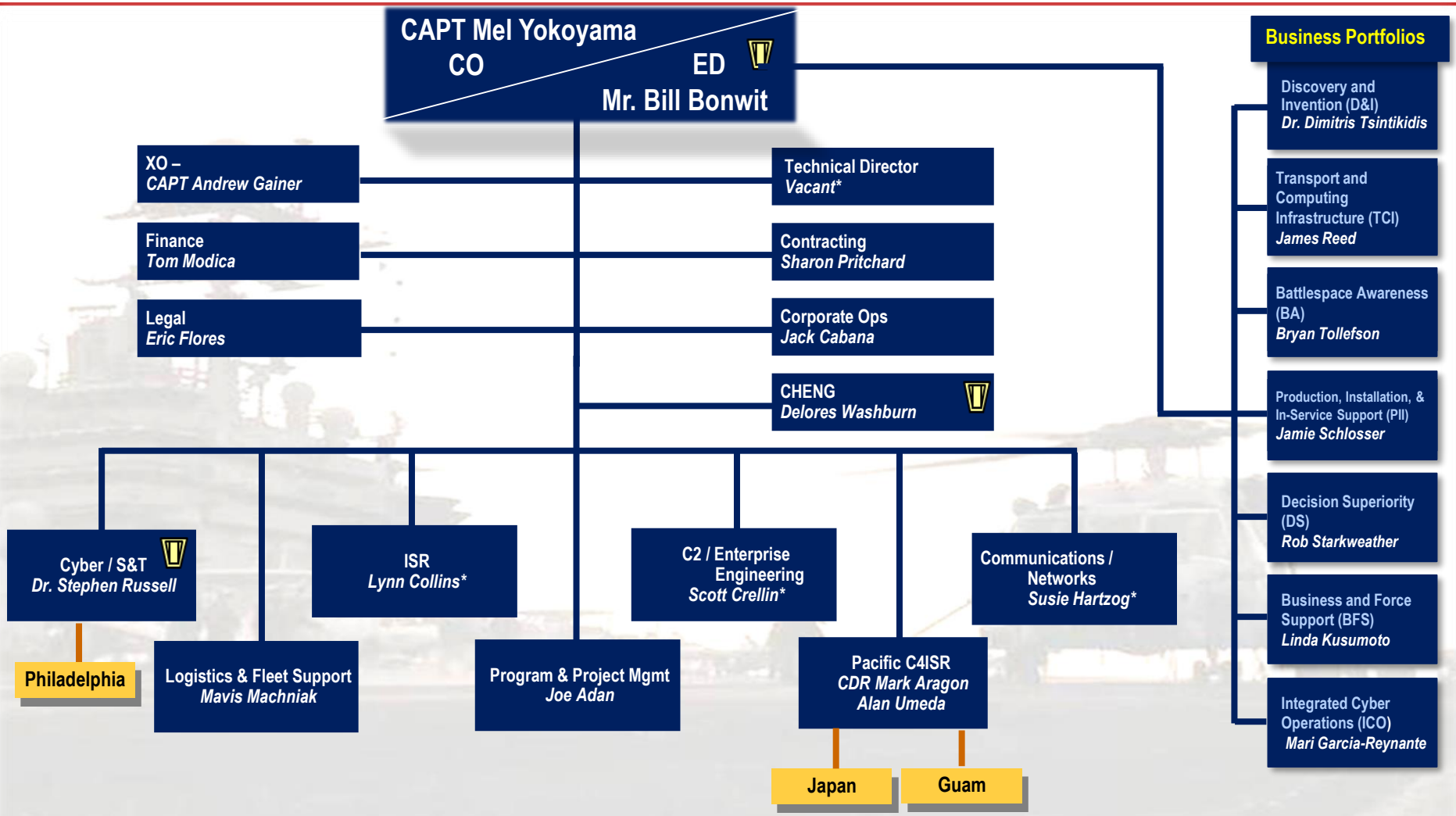
Naval Research & Development Establishment



SPAWAR Organization



SSC Pacific: Organization



** SSTM: Senior Scientific and Technical Manager*

FY17 Profile

Our People Are Our Greatest Strength

FY17 Profile

CIVILIANS*	**4756**
Scientists & Engineers	2350
Tech Specialists	965
S&E Technicians	291
Admin/Professionals	965
General Support	189
SES/ ST/ SSTM/ SL	21
MILITARY	**197**
Enlisted	135
Officers	62
TOTAL	**4,953**

*Civilians include NWCF and General Fund

FY17 = $2.6B
Total Obligation Authority

New Professional (NP) Program:
- ✓ ~2850 applicants for 77 positions
- ✓ Average GPA 3.41

Highly credentialed, educated workforce
- ✓ 194 PhDs
- ✓ 1,356 Masters

3,648 SCI Clearances
- ✓ 1,955 Civil Servants & Military
- ✓ 1,693 Contractors

~ 32% of workforce: Active Duty, Reservists, Veterans
~ 400 Civilians Directly Supporting C4ISR with the Fleet Around the World

Capabilities – Across the Full Life Cycle

Today
The Navy in Operation

Installation and Support

Production, Installation In-Service Support

Marine Mammals

Networks

3D Printing/ AM

Cyber Security

Tomorrow
The Navy in Construction

Engineering, Development, Test and Evaluation

C4ISR for Unmanned Vehicles

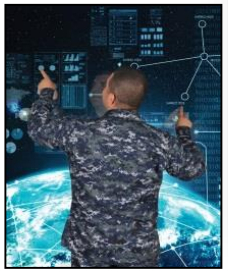
Collaborative Software Armory

Integrated Fires

Mixed Reality

Integrated Cyber Operations

Space Command & Control

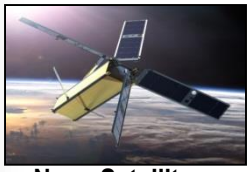


User Center Design

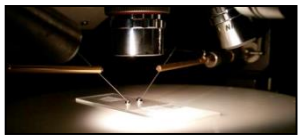
Future
The Navy in Planning

Science and Technology

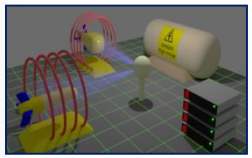
Cryogenic Exploitation of RF



Nano Satellites



Graphene



FDECO

Biologically-Inspired Autonomous Sensing

Human Machine Teaming

Advanced Antenna Research

Intellectual Capital and Partnerships – Industry and Academia

CRADA - Cooperative Research and Development Agreement

▼ Establish and foster R&D partnerships with industry and academia
▼ Advance technology and move innovation from the lab to the market and ultimately the warfighter

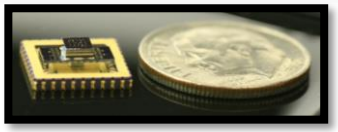
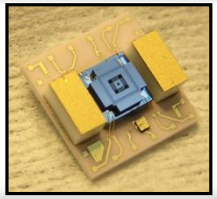
Technology Transfer

SBIR/STTR
SMALL BUSINESS INNOVATION RESEARCH
SMALL BUSINESS TECHNOLOGY TRANSFER

▼ Promotes innovation and creativity with SSC Pacific technology
▼ Important pathway to move Navy innovation from lab to market and ultimately the warfighter

Partnering in Education and Community Outreach



SSC Pacific T2 TECHNOLOGY TRANSFER

▼ *Three San Diego based start-up companies* formed as a result of licensing SSC Pacific technologies

Community Impact:
- ▼ 16,654 Students
- ▼ 100 Schools
- ▼ 1,072 Teachers
- ▼ 178 Events

Volunteer Data:
- ▼ 407 Volunteers
- ▼ 11,174 Total STEM hours
- ▼ 9,409 Volunteer hours

PATENTS	FY17
Disclosures	155
Patents Filed	100
Patents Issued	50

PUBLICATIONS	FY17
Journal Article	177
Conf. Papers	361
TRs/TDs	104

San Diego State University

Geographer - Self-photographed, CC BY 1.0

Carnegie Mellon

By Dllu - Own work, CC BY-SA 4.0

UC San Diego

SPAWAR Systems Center PACIFIC

Moving Forward

- Strong demand for Cyber and C4ISR
- Increasing demand for Systems of Systems engineering, rapid prototyping and experimentation
- Increase speed to capability and affordability
- Reduce complexity, streamline processes, and adopt best practices
- Human-machine teaming; Autonomy/ Machine Learning; ISR; Networks
- Innovate, Integrate, Interoperate


SPAWAR
Systems Center
PACIFIC