



SPAWAR Systems Center Pacific FY17 EOY Brief to NDIA

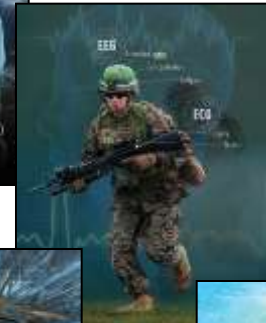
27 February 2018

***Mr. Bill Bonwit, SES
SPAWAR Systems Center, Pacific
Executive Director (ED)***



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.



SPAWAR Organization

PEO C4I

RDML Carl Chebi

COMMANDER
RADM C.D. Becker
Executive Director
Pat Sullivan

PEO EIS

Ruth Youngs-Lew

PEO Space Systems

RDML Carl Chebi

Fleet Readiness Directorate
RDML (sel) Ed Anderson

1.0 - Finance Steve Dunn	2.0 - Contracts Nancy Gunderson	3.0 - Legal Amy Weisman	4.0 - Logistics & Fleet Support Dr. William Luebke	5.0 - Engineering RDML Fritzemeier	6.0 - Program & Project Mgmt Craig Madsen	7.0 - Science & Technology Dr. Steve Russell	8.0 - Corporate Operations Kimberly Kesler
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Echelon III Activities

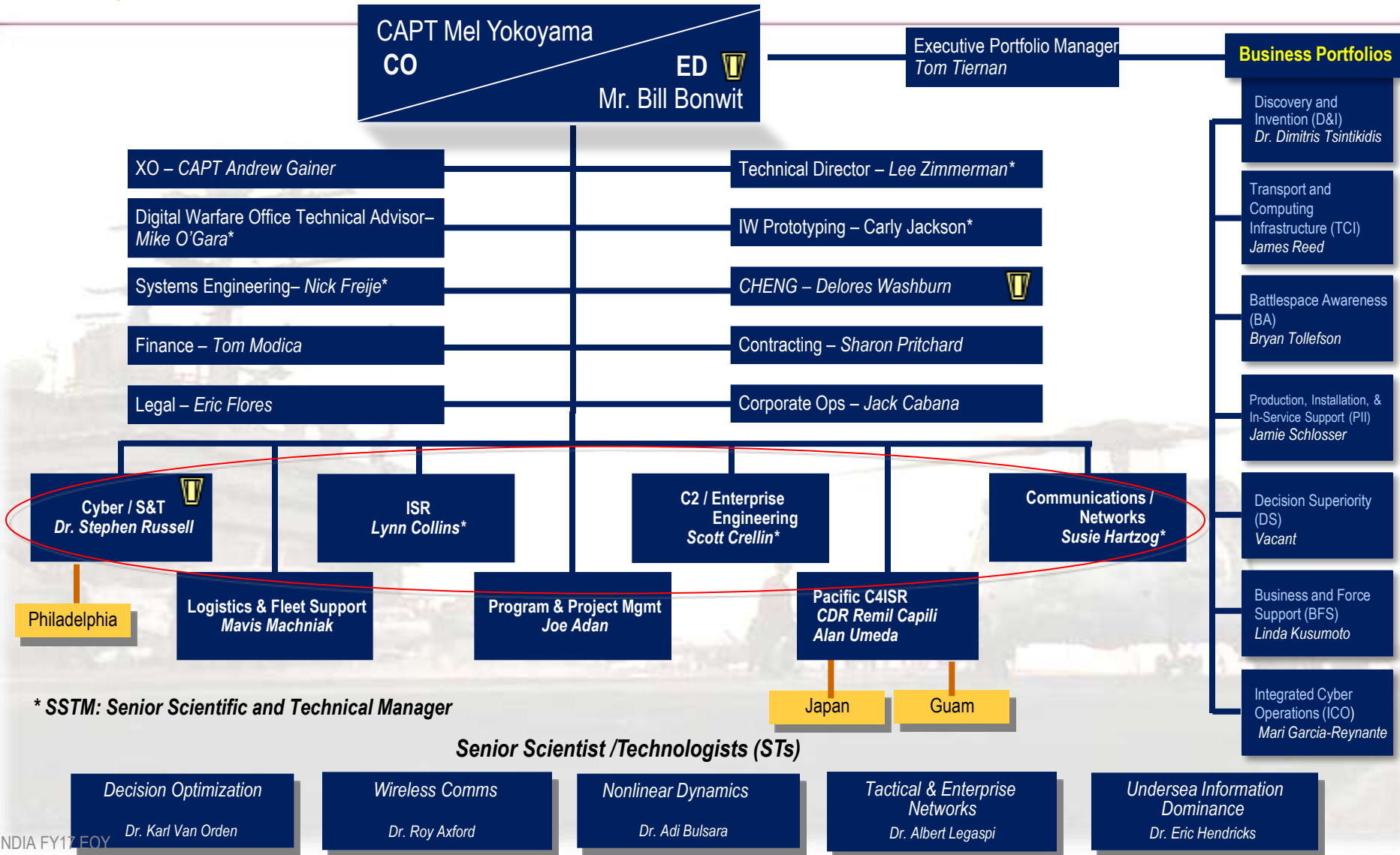
SPAWAR Space Field Activity
CAPT EJ Hendrickson, CO
John Pope, ED (Acting)

SPAWAR Systems Center Pacific (Working Capital Fund)
CAPT Mel Yokoyama USN, CO
Bill Bonwit, ED

SPAWAR Systems Center Atlantic (Working Capital Fund)
CAPT Scott Heller, CO
Chris Miller, ED



SSC Pacific: Organization



* SSTM: Senior Scientist and Technical Manager

Senior Scientist /Technologists (STs)

- Decision Optimization
Dr. Karl Van Orden
- Wireless Comms
Dr. Roy Axford
- Nonlinear Dynamics
Dr. Adi Bulsara
- Tactical & Enterprise Networks
Dr. Albert Legaspi
- Undersea Information Dominance
Dr. Eric Hendricks



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

Tomorrow
The Navy in Construction

Engineering, Development,
Test and Evaluation

Future
The Navy in Planning

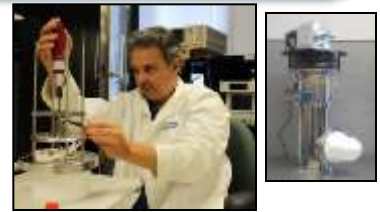
Science and Technology



Production, Installation
In-Service Support



C4ISR for Unmanned Vehicles



Cryogenic Exploitation of RF



Marine Mammals



Networks



Collaborative
Software Factory



Integrated Fires



Mixed Reality



Nano Satellites



Graphene



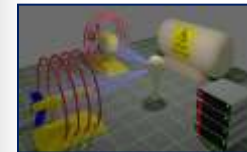
Integrated Cyber
Operations



Space Command &
Control



User Center Design



FDECO



Biologically-Inspired
Autonomous Sensing



3D Printing/ AM



Cyber Security



Human Machine
Teaming



Advanced Antenna
Research



2017 Significant Awards



Paul Valdez

DoN Lead Tester Award



Steven Frisbee, Aaron Burmeister, Dr. Alex Phipps, Dr. David Wayne & Ritesh Patel

ASN RD&A Top Scientist & Engineer of the Year Award



Alma Loe

League of United Latin America Citizens (LULAC) Excellence in Service Award



S2ME2 Task Force Team

SECNAV Command Innovation Excellence Award



NC3 Team

SPAWAR Lightning Bolt Award



High Speed Piers Suitcase Team

DoN IT/IM Award



Christina Crawford

NDIA Twice a Citizen Award



Jeff Vu

Society of Asian Scientists and Engineers (SASE) Achievement Award



3D Ship Scanning for Shipboard Configuration Management

SECNAV Innovation Award



End of Year Snapshot



Customer Demand

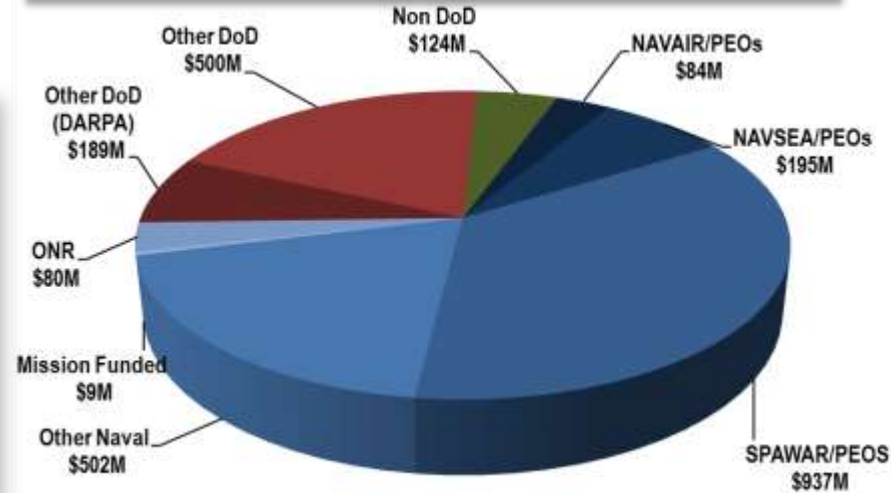
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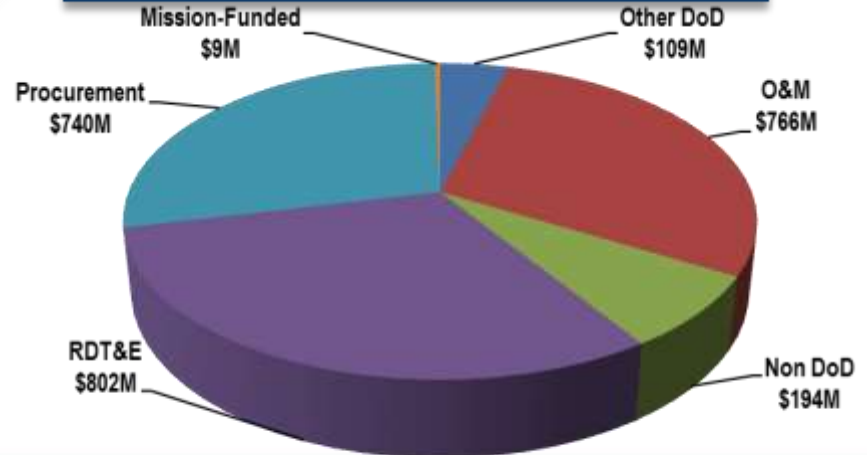


- ▼ Naval, Joint and National Security Projects
- ▼ Work must be within our mission
- ▼ Naval priorities addressed

FY17 CUSTOMERS



FY17 FUNDS TYPE





FY17 Contracts

TOTAL CONTRACTS

<u>Competition:</u>	Target – 80%. Achieved 87.3% (Dollars)
<u>Active contracts:</u>	345 (D, C, and grants only)
<u>Firms awarded contracts:</u>	849 Different companies were awarded contracts & orders (including simplified acquisitions)

**Total
Amount
Obligated
\$1.2B**

Small Businesses

TYPE	Achieved	Target
Small Business Awards	43.36%	26.00%
HUBZone Small Businesses	7.01%	0.90%
Disadvantaged Small Business	19.60%	6.30%
8(a) Small Business	2.56%	N/A
Woman-Owned Small Business	13.72%	3.80%
Service-Disabled Vet-Owned Small Business	3.90%	1.90%

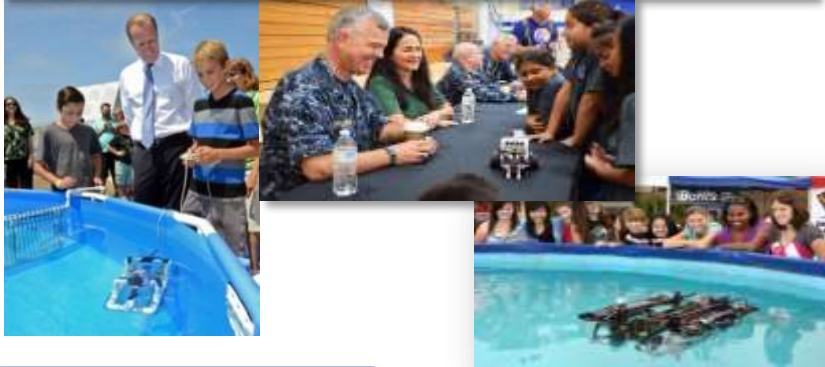


Intellectual Capital and Partnerships – Industry and Academia

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

Partnering in Education and Community Outreach



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

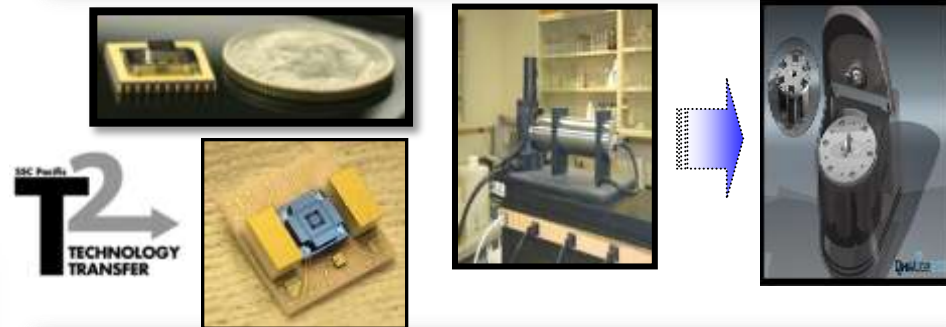
PATENTS	FY17
Disclosures	155
Patents Filed	100
Patents Issued	50

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

Technology Transfer



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



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

San Diego State University



UC San Diego



Carnegie Mellon





Our Outlook

- ▼ Strong demand for:
 - Cyber, Networked C4ISR
 - Systems of systems engineering
 - Prototyping and rapid delivery of capabilities
- ▼ Pressure and focus on execution
- ▼ Human-machine teaming; Autonomy/
Machine Learning; ISR; Networks
- ▼ C4ISR provider of choice across Naval, Joint
& National domains
- ▼ Focus on streamlining;
Easy to Use, Easy to Maintain
- ▼ Go Faster...



SSC PACIFIC

