



NIWC Pacific FY19 EOY Brief to NDIA

15 January 2020

Mr. Bill Bonwit

Executive Director

NIWC Pacific



NIWC PAC 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.



NAWARSYSCOM Organization

PEO C4I

 John Pope

PEO Space Systems

 John Pope

COMMANDER
 RADM C.D. Becker
Executive Director
 Pat Sullivan

PEO EIS

 ENTERPRISE INFORMATION SYSTEMS
 DEPARTMENT OF THE NAVY
 Ruth Youngs-Lew

Fleet Readiness Directorate
 Mike Spencer

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 Ruttenberg
 Rob Wolborsky

6.0 - Program & Project Mgmt
 Craig Madsen

7.0 - Science & Technology
 Carly Jackson

8.0 - Corporate Operations
 Art Sterrett

Echelon III Activities

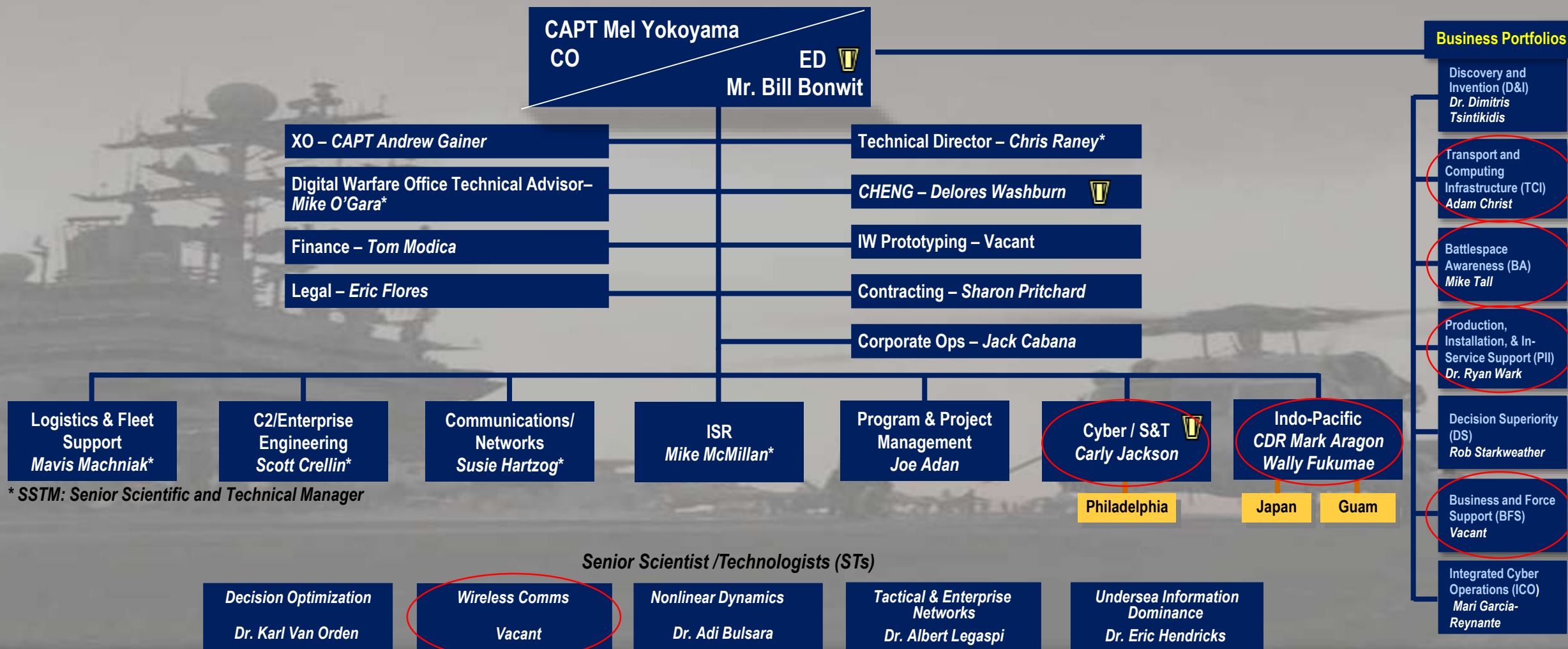
NAWARSYSCOM Space Field Activity
 CAPT Rob Berner, CO
 John Pope, ED (Acting)

Naval Information Warfare Center Pacific
 (Working Capital Fund)
 CAPT Mel Yokoyama USN, CO
 Bill Bonwit, ED

Naval Information Warfare Center Atlantic
 (Working Capital Fund)
 CAPT Wesley Sanders, CO
 Pete Reddy, ED



NIWC Pacific: Organization



* SSTM: Senior Scientific and Technical Manager

Senior Scientist /Technologists (STs)

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



FY19 Profile

Our People Are Our Greatest Strength

FY19 Profile

CIVILIANS* 5086

Scientists & Engineers 2482

Tech Specialists 1009

S&E Technicians 354

Admin/Professionals 1036

General Support 176

SES/ ST/ SSTM/ SL 29

MILITARY 197

Enlisted 139

Officers 58

TOTAL 5,283

*Civilians include NWC and General Fund

FY19 = \$2.9B
Total Obligation Authority

New Professional (NP) Program:

- ✓ ~2,726 applicants for 89 positions
- ✓ Average GPA 3.48

Highly credentialed, educated workforce

- ✓ 205 PhDs
- ✓ 1,481 Masters

3,648 SCI Clearances

- ✓ 1,955 Civil Servants & Military
- ✓ 1,693 Contractors

~ 32% of workforce: Active Duty, Reservists, Veterans

~ 535 Civilians & Military Directly Supporting C4ISR with the Fleet Around the World





PACIFIC

Capabilities – Across the Full Life Cycle

Today
The Navy in Operation

Tomorrow
The Navy in Construction

Future
The Navy in Planning

Installation and Support

Engineering, Development,
Test and Evaluation

Science and Technology



Automated Production, Installation In-Service Support



Marine Mammals



Networks



EXMAN/Additive Manufacturing



CAMEO



C4ISR for Unmanned Vehicles



Global Positioning Navigation System



Collaborative Software Armory/Compile to Combat in 24 Hours



Live Virtual Constructive



Integrated Cyber Operations



Space Command & Control



EW/IW ANT-X



Graphene



Sensor Swarms



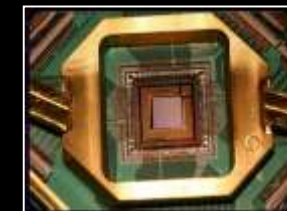
HALO-Net



Solid State Laser Atmospheric



Artificial Intelligence/ Machine Learning



Quantum



2019 Significant Awards



ASN RD&A Dr. Delores M. Etter
Top Scientists & Engineers of the Year Awards



IT1 Patrick Myles
NIWC PAC Military Service Member of the Year



Dennis Bermeo
NDIA A. Bryan Lasswell Award for Fleet Support



Stephen Crutchfield
Tech Transfer Federal Lab Consortium



ASN Financial Management & Comptroller Awards



Jose Romero-Mariona
HENAAC STEM Hero Award



Frederique Cesson
DON Civilian HR & EEO Excellence Award



Team for Outstanding Technology Department
Federal Lab Consortium



LS2 Joseph Berry
NIWC PAC Junior Military Service Member of the Year



Wanda Curtis 2019 AFCEA
Exceptional Contribution to STEM Education Award

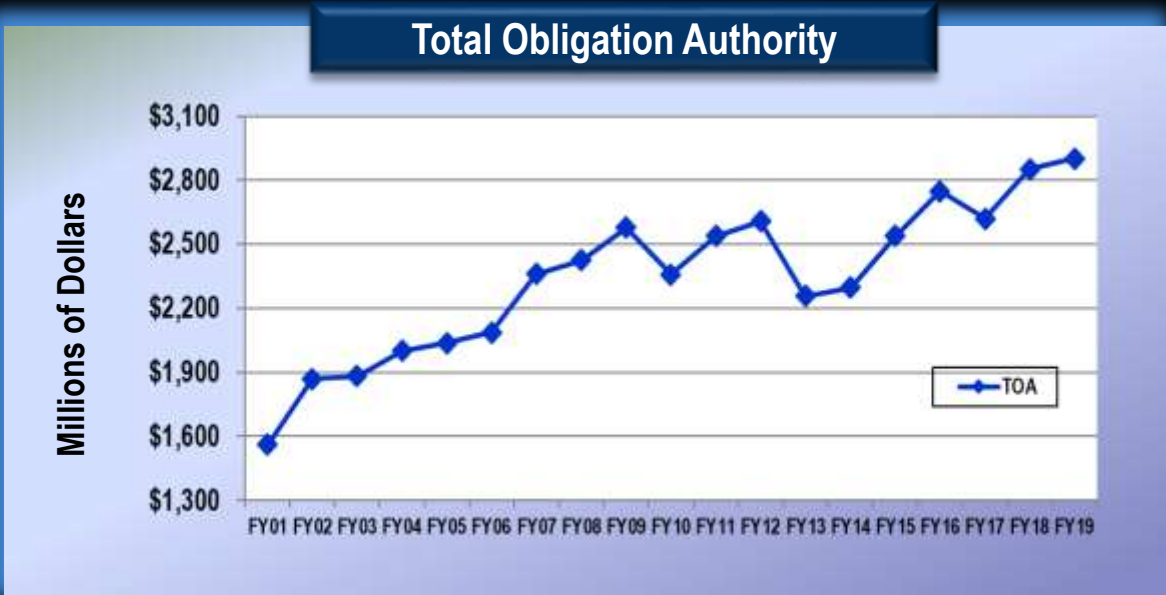


End of Year Snapshot



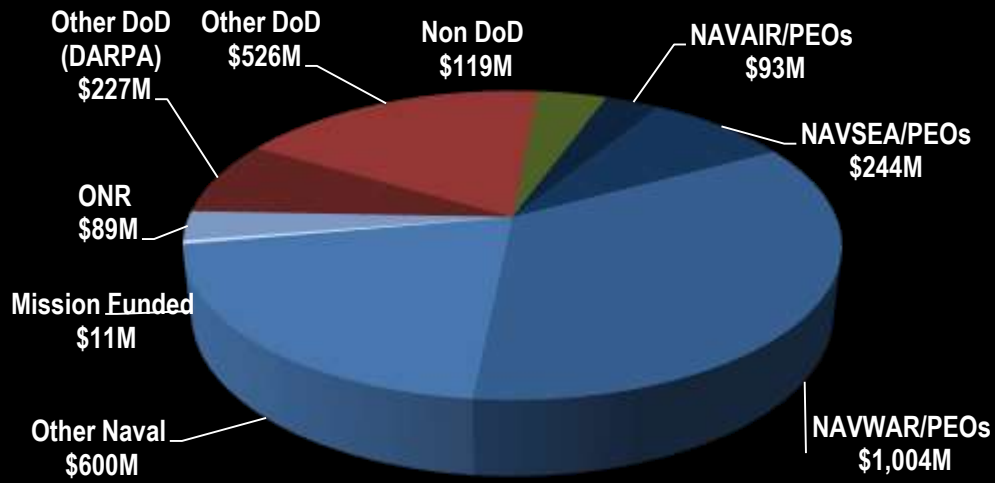
Customer Demand

FY19 = \$2.9 B

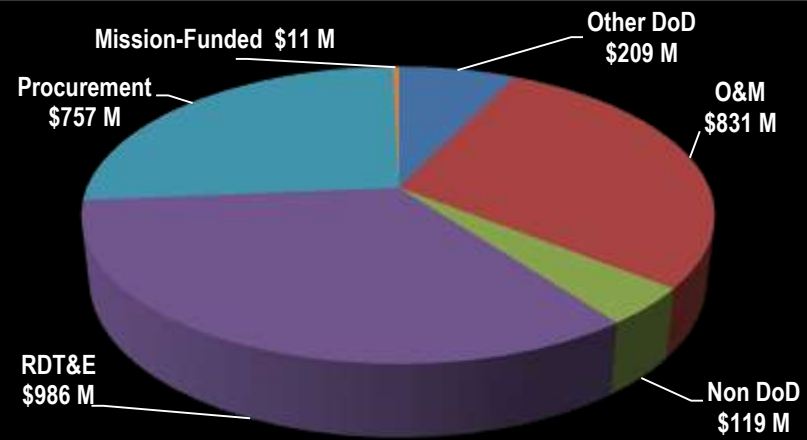


- ▼ C4ISR Cyber and Space efforts
- ▼ Strong alignment with CNO Information Warfare priorities

FY19 CUSTOMERS



FY19 FUNDS TYPE





FY19 Contracts

TOTAL CONTRACTS

Competition: Target – 80%. Achieved 80.53% (Dollars)
 Active contracts: 431 (D, C, and grants only)
 Firms awarded contracts: 1,004 Different firms were awarded contracts & orders (including simplified acquisitions)

**Total
Amount
Obligated
\$1.33B**

Small Business Goals

TYPE	Achieved	Target
Small Business Awards	40.12%	35.73%
HUBZone Small Businesses	1.75%	1.88%
Disadvantaged Small Business	13.68%	11.75%
8(a) Small Business	3.39%	N/A
Woman-Owned Small Business	7.79%	6.35%
Service-Disabled Vet-Owned Small Business	5.00%	3.69%



FY19 Top 25 Contractors (based on \$ New Actions)

	<u>Contractor</u>	<u>Dollars Obligated</u>
1	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	\$148,439,669
2	SERCO INC.	\$75,693,586
3	BOOZ ALLEN HAMILTON INC.	\$62,721,013
4	KOAM ENGINEERING SYSTEMS, INC.	\$45,481,210
5	TACTICAL ENGINEERING & ANALYSIS, INC.	\$28,435,597
6	HII FLEET SUPPORT GROUP LLC	\$27,154,587
7	INNOVASYSTEMS INTERNATIONAL, LLC	\$26,966,641
8	VT MILCOM INC.	\$25,774,215
9	CENTURUM INFORMATION TECHNOLOGY, INC.	\$24,693,047
10	LAFAYETTE GROUP, INC.	\$22,966,648
11	LEIDOS, INC.	\$21,804,128
12	CYPHER ANALYTICS, INC	\$20,909,317
13	PERATON INC.	\$20,190,158

*Indicates Small Business
Categorization*



FY19 Top 25 Contractors (based on \$ New Actions) cont'd

	<u>Contractor</u>	<u>Dollars Obligated</u>
14	CSRA LLC	\$19,749,624
15	CAMERON BELL CORPORATION	\$16,516,174
16	CARASOFT TECHNOLOGY CORP.	\$14,602,844
17	NORTHROP GRUMMAN SYSTEMS CORPORATION	\$13,895,593
18	GEOCENT, L.L.C.	\$12,809,345
19	AGILE DEFENSE, INC.	\$12,729,248
20	MCKEAN DEFENSE GROUP, LLC	\$10,890,327
21	SOLUTE	\$10,669,849
22	SCIENTIFIC RESEARCH CORPORATION	\$10,640,188
23	CONCURRENT TECHNOLOGIES CORPORATION	\$10,547,575
24	COLSA CORPORATION	\$10,323,728
25	AECOM TECHNICAL SERVICES, INC.	\$10,197,084

*Indicates Small Business
Categorization*



FY19 Top 10 Small Business Contractors (\$ New Actions)

	<u>Contractor</u>	<u>Dollars Obligated</u>
1	KOAM ENGINEERING SYSTEMS, INC.	\$45,481,210
2	TACTICAL ENGINEERING & ANALYSIS, INC.	\$28,435,597
3	CENTURUM INFORMATION TECHNOLOGY, INC.	\$24,693,047
4	LAFAYETTE GROUP, INC.	\$22,966,648
5	CYPHER ANALYTICS, INC	\$20,909,317
6	CAMERON BELL CORPORATION	\$16,516,174
7	GEOCENT, L.L.C.	\$12,809,345
8	AGILE DEFENSE, INC.	\$12,729,248
9	SOLUTE	\$10,669,849
10	FCN, INC.	\$10,078,596

Intellectual Capital and Partnerships – Industry and Academia

Partnering in Education and Community Outreach



San Diego State University



Community Impact:

- ▼ 18,268 Students
- ▼ 329 Schools
- ▼ 1,473 Teachers
- ▼ 115 Events



Volunteer Data:

- ▼ 662 Volunteers
- ▼ 15,250 Total STEM hours
- ▼ 8,431 Volunteer hours

PUBLICATIONS	FY19
Journal Article	123
Conf. Papers	340
TRs/TDs	129

PATENTS	FY19
Disclosures	102
Patents Filed	62
Patents Issued	85

Carnegie Mellon

UC San Diego



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Technology Transfer



- ▼ Promotes innovation and creativity with NIWC Pacific technology through working relationships with industry and academia
- ▼ Important pathway to move Navy innovation from lab to market and ultimately the warfighter



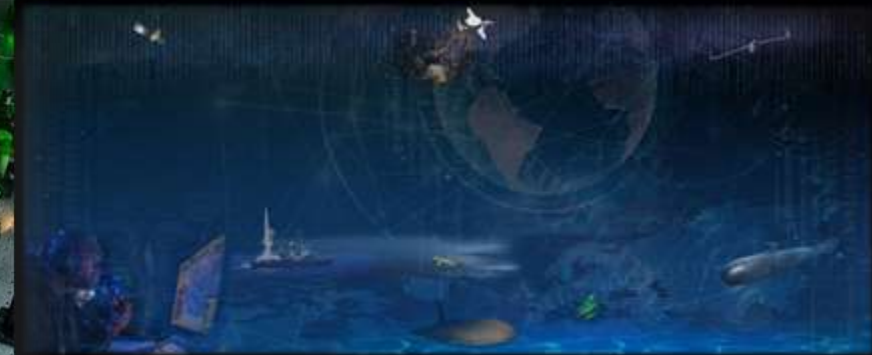
- ▼ Eight Southern California companies are using NIWC Pacific technologies.

CRADA - Cooperative Research and Development Agreement

- ▼ FY19: 75 Active CRADAs; 58 CRADA Actions
- ▼ Establish and foster R&D partnerships with industry and academia, allowing parties to share R&D resources, personnel, equipment and costs, enabling development of new capability, technology, IP

Moving Forward

- ▼ Focus on Information Warfare
- ▼ Strong demand for Cyber and C4ISR
- ▼ Increasing demand for enterprise engineering, rapid prototyping and experimentation
- ▼ Increase automation in fielded systems
- ▼ System “Toughness”
- ▼ Artificial Intelligence; Autonomy/
Machine Learning; ISR; Networks



the
future
of C4ISR
starts
here

***Naval Information
Warfare Center***



PACIFIC