

# **Expeditionary Warfare** (ExW) Department

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Ms. Ashlee Landreth, SSTM
NIWC Atlantic
ExW Department Head





# **Expeditionary Warfare Department Enabling Commanders in Faster Decision-making**



#### **Divisions**

**Expeditionary Intelligence Solutions** 

Expeditionary
Enterprise Systems &
Services

**Expeditionary** Platform Integration

Expeditionary Command, Control and Communications Solutions **Expeditionary Warfare** FY23: 657 FTEs — 103 Projects — 20 IPTs

Rapidly delivering C4ISR, Cyber and IT systems and engineering services to meet the IW needs of the Marine Corps and Special Operations Command.

- Deliver IW capabilities to the USMC and SOCOM
- Provide full spectrum C4ISR systems and services to Marines and Special Forces.
- Supporting Wargaming & Experimentation
- Deliver Capabilities that Enable Successful Stand In Forces
- Enable Joint All Domain Integration
- Ensuring S&T/R&D Progression

Actualizing Marine Corps and SOCOM doctrine to experiment and increase capability in operationally relevant systems

Lightening the load for Marine Units

Helping enhance naval integration

Creating compact, removable, on the move technology for the Marine Corps and SOCOM

Bringing DevSecOps to Marine Corps (MCBOSS)

**Major Sponsors** 

PEO Land Systems

SOCOM

HQMC

MARCORSYSCOM





### **Organizational Structure**

### **Expeditionary Warfare Department**

Ashlee Landreth

**Deputy** Pete Ward

Expeditionary Intelligence Solutions (EIS) Division

**Toby Straight** 

#### **IPTs**

Distributed Common Ground/Surface System – Marine Corps (DCGS-MC) **Lindsay Sakran** 

Signals Intelligence (SIGINT)

Jeffrey Sims

Special Ops ISR Solutions (SOIS)

Jeff Woodard

Terrestrial Collections Identity Operations (TCIO)

**Chris Sargent** 

Expeditionary Intelligence, Surveillance, and Reconnaissance (ISR) Sustainment

James Deacon

Expeditionary Enterprise
Systems & Services (E2S2)
Division

**Steve Clinton** 

### **IPTs**

Wireless Enterprise Systems & Services (WES2)

John Larson

Enterprise Infrastructure Modernization (EIM)

**Brad Gerard** 

Enterprise Engineering & Integration Services (E2IS)

**Marcus Watson** 

Enterprise Communication Infrastructure (ECI) Nicole Mullins Expeditionary Platform Integration (EPI) Division

Jenny Bennett (A)

#### **IPTs**

Vehicular Technology Transition (VTT)

Jeremey Richardson

Fielded Ground Systems (FGS)

Eric Craig

Counter Threat Platforms (CTP)

Amy Russell

Advanced Reconnaissance (AR)

Tim Hughes

Modern Vehicle Fielding (MVF)

Jenny Bennett

Expeditionary Command, Control and Communications Solutions (EC3S)

Division

#### Tim Turner

#### **IPTs**

Special Operations Communications Systems (SOCS)

### **George Anderson**

USMC Communications Systems (UCS)

Jack Buchanan

Tactical Services and Infrastructure (TSI)

Travis Garrison

MAGTF C2 Services and Applications (MC2SA)

Thomas Sweatman

Advanced Technology Development (ATD)

Alex Hahn

Electronic Warfare Systems (EWS) **Lyle Witten** 



### NIWC Atlantic's Command Strategy to drive innovation and deliver warfighter

information advantage to Win the Information War.





### **Ensure Information Readiness**



### **Lead Naval Digitalization**



### **Foster a World-class Workforce**

### **Deliver Naval Information Advantage and Warfighter Readiness**

Be the technical leader in warfighter information advantage

- I. Meet Customer Needs Delivering Products and Services
- II. Drive Work Towards Warfighter Priorities
- III. Drive Future and Emerging Capabilities



### **Optimize Our Operations**

Effective internal operations that drive value through increasing speed and agility.

- Ensure Competitive Edge via Managed Costs
- Quality Acquisition at the Speed of Need
- III. Process Co-Ownership and End-User Focus

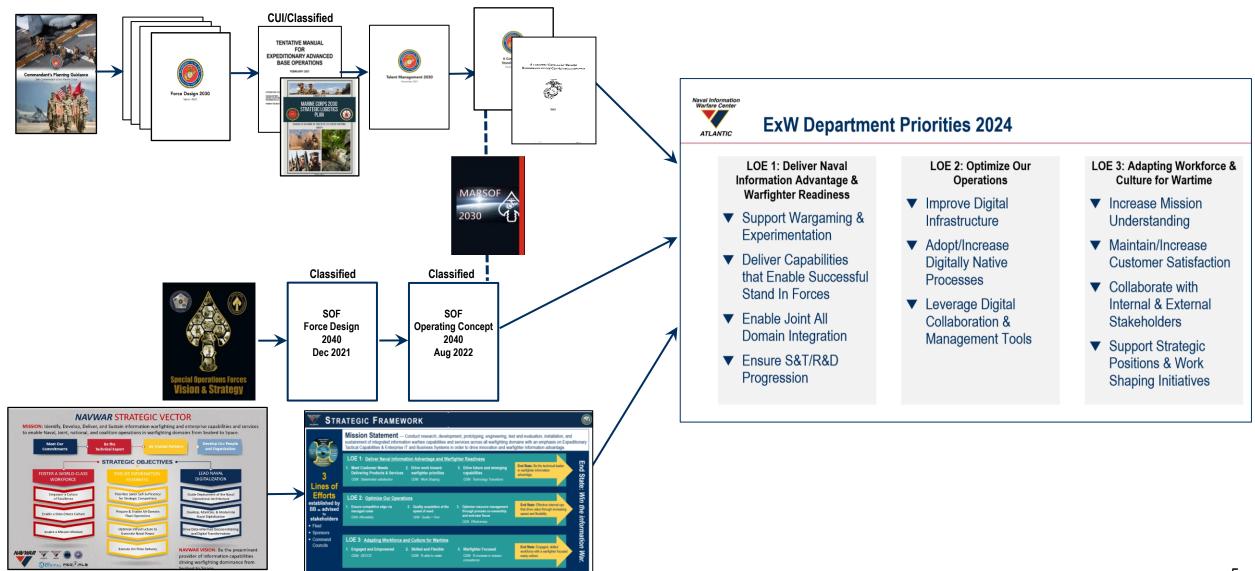
### **Adapting Workforce and Culture**

Engaged, skilled workforce, with a warfighter focused and ready culture

- **Engaged Workforce**
- II. Skilled and Adaptable Workforce
- III. Warfighter Focused



# ExW's Strategic Framework Aligns to LANT/MC/SOCOM Guidance





# Expeditionary Intelligence Solutions Division

Inspire, Collaborate, Support, Execute

Toby Straight
NIWC Atlantic
Expeditionary Intelligence Solutions
Division Head





# **Expeditionary Intelligence Solutions (EIS) Division Overview**

### **Primary Partners:**

- PEO LS (PM ICO)
- SOF AT&L (PEOs Tactical Information Systems, Maritime, SDA)
- MCWL G3
- NSA
- TECOM
- FMF
- ONR

#### **Focus Areas**

Information and Data Architecture / Enterprise Services

Sense, Make Sense, Act

**Naval Integration** 

Fleet Engagement

Talent Management-

Invest in People (USMC 101, SIF, Recon/Counter Recon)

### What We Do

Provides full spectrum expeditionary intelligence capabilities, technologies and solutions to

the warfighter

# Solution Areas (Horizontal/Vertical Integration)

- Measurement and Signature Intelligence
- Signals Intelligence
- Electronic Warfare
- Geospatial Intelligence
- Counter Intelligence
- Open Source and Social Media Intelligence
- Identity Operations

MCISRE 2030 must align service intelligence, surveillance and reconnaissance effort to achieve decision advantage for the Fleet Marine Force commanders and intelligence leaders with all domain ISR battlespace awareness, predictive analysis, and assessment necessary for increased lethality and expeditionary force dominance of actively contested littoral spaces.

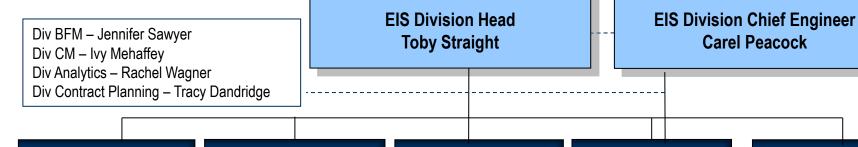


### **EIS Division Organization**

~230 Gov FTEs; 67% Engineers

~300 Ctr FTEs; World Wide

>5 years: Leadership Stability



### Distributed Common Ground/Surface System-Marine Corps (DCGS-MC)

- All Source
- Geospatial Intelligence (GEOINT)
- Spectrum Services Framework (SSF)
- Family of Integrated Targeting Exploitation (FITE)
- Handheld Video Down Link (HHVDL)

# Terrestrial Collection Identity Operations (TCIO)

- Signature Management
- Terrestrial Collection Systems (TCS) Maritime/Unattended Ground Sensing
- Identity Operations -Biometrics
- Sensitive Site Exploitation
- Marine Corps
   Warfighting Lab G3

### Signals Intelligence (SIGINT)

- Tactical SIGINT Collection System (TSCS)
- Communication Emitter Sensing and Attack System (CESAS)
- SCI Comms
- Technical Control Analysis Center (TCAC)

### Special Operations ISR Solutions (SOIS)

- Joint Threat Warning System Air (JTWS Air)
- Joint Threat Warning System Maritime (JTWS Maritime)
- Ground SIGINT Kit (GSK)
- Combatant Craft
- Dry Combat Submersible

# Expeditionary Intelligence, Surveillance, and Reconnaissance (ISR) Sustainment

- Supply Chain Management
- Fleet Support Representatives
- Training
- Navy Expeditionary Intelligence Command (NEIC)

### **Embeds:**

- PEO LS PM ICO, PM Fires, PM Eng Systems
- SOCOM SOF AT&L, PEO TIS, SDA, Maritime
- MARSOC
- MCWL
- MCLB Albany
- I. II. III MEF
- 29 Palms
- MCB Kaneohe Bay
- MCTSSA
- Regional Intel Trng Centers, Marine Corps Intel Schools

### **Infrastructure Investments (Gov Site):**

- 1 SCIF: 1 TSCIF, 1 Mobile TSCIF
- 4 Secret labs; 3 SVTC (2 on MCEN-S)
- 1 Unclas lab (MCEN-N Wired/WiFi)
- Complete Legacy COC Tent with Gen, HVAC
- Ranges SAUSR, Poseidon Park, Sullivan's Island
- SDREN



# Expeditionary Enterprise Systems and Services Division

**Steve Clinton** 

NIWC Atlantic
Expeditionary Enterprise Systems and Services
Division Head





# **Expeditionary Enterprise Systems and Services (E2S2) Division**

### **IPTs**

Enterprise Communications Infrastructure

Enterprise
Engineering &
Integration Services

Enterprise Infrastructure Modernization

Wireless Enterprise Systems & Services

Develop and deliver secure, resilient, and modernized solutions and access, enabling interoperability with joint and coalition partners, while ensuring safety and security for Marines and families at home and abroad.

- Enterprise network services
  - Marine Corps Business Operations Support Services (MCBOSS; Marine Corps DevSecOps Platform Services)
  - Enterprise Staging & Delivery (ES&D)
  - Direct support for sponsors (PEO Digital, PEO MLB, DC-I/IC4)
- Enterprise network infrastructure
  - Enterprise Infrastructure Modernization (EIM)
  - Public Safety Systems (PSS)
  - Base Infrastructure (BAN/LAN/Wireless)
  - 5G Infrastructure and Application Experimentation

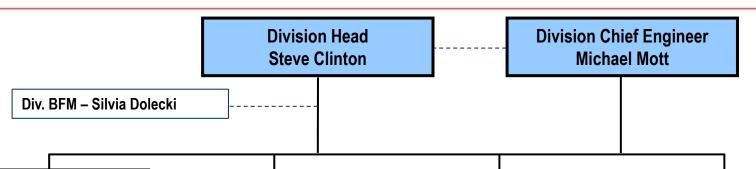
PEO USDREE **HQMC DC I MARFORCYBER MARCORSYSCOM** MARCORLOGCOM

**Partners** 

**Powering the Kill Chain Transformation** 



### **E2S2** Division Organization / IPT Efforts



# Enterprise Communication Infrastructure (ECI) IPT

- USMC Public Safety Systems (PSS): ELMR, CERS, Army BECS
- Enterprise Staging and Delivery (ES&D)
- Infrastructure Services: BAN, LAN, MCEN Wireless

# Enterprise Engineering Integration Services (E2IS) IPT

- MCBOSS
- Enterprise Secure Cloud Computing Architecture (SCCA)
- Manpower IT Systems Modernization (MITSM)
- Logistics Data Systems (LDS)
- Marine Corps Training Information Management System (MCTIMS)

### Enterprise Infrastructure Modernization (EIM) IPT

- Tactical Entry Point (TEP)
- Next Generation Firewall (NGFW)
- WAN Transport
- Sensor Grid
- Enterprise Service Stacks (ESS)
- Commercial Solutions for Classified (CSfC)

# Wireless Enterprise Systems and Services (WES2) IPT

- Marine Corps Logistics
   Base Albany (MCLBA)
   5G Smart Warehouse
   Experiment
- 5G Core
- Autonomous robotics
- D365 Warehouse Management System (WMS)

### **Embeds:**

- Deputy Commandant for Information (DC-I)
  - IC4
  - Service Data Office (SDO)
- PEO Digital Enterprise Services (DES)
  - PfM COO
  - PfM CaOS
  - PfM DWS
- PEO Manpower, Logistics, & Business Solutions (MLB)
  - MITSM
  - PM NABS
  - GCSS-MC & LIS

## Infrastructure Investments (Government Site):

- 2 SECRET labs; 1 MCEN-S SVTC
- 2 UNCLASS labs
  - EIM / IPOC
  - PSS



# **Expeditionary Platform Integration Division**

Transforming Combat Vehicles into Mobile C4ISR Platforms

Jenny Bennett
NIWC Atlantic
Expeditionary Platform Integration
Division Head (A)





# **Expeditionary Platform Integration (EPI) Division Overview**

### **Primary Partners:**

- PEO Land Systems
  - PM Advanced Amphibious Assault
  - PM Ground Based Air Defense
  - PM Light Armored Vehicles
  - PM Light Tactical Vehicles
  - PM Medium & Heavy Tactical Vehicles
  - PM MAGTF C2 (NOTM & EXCOMM)
- MARCORSYSCOM
  - PfM GWS PM Fires
- USN Naval Expeditionary PO
- USA
  - PEO CS & CSS PdD Light Tactical
     Vehicle
  - PM Medium Mine Protected Vehicles
- USAF AFCENT/MRAP PO/JLTV PO

#### **IPTs**

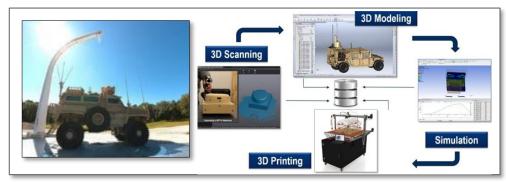
Vehicular Technology Transition
Modern Vehicle Fielding
Counter Threat Platforms
Advanced Reconnaissance
Fielded Ground Systems

### What We Do:

Provide design, engineering and full-scale integration of C5ISR capabilities into tactical vehicle platforms. Improve efficiency and effectiveness of integrating capabilities on vehicle platforms for specific mission activities. Provide post-fielding sustainment support.

### **Major Systems / Solutions**

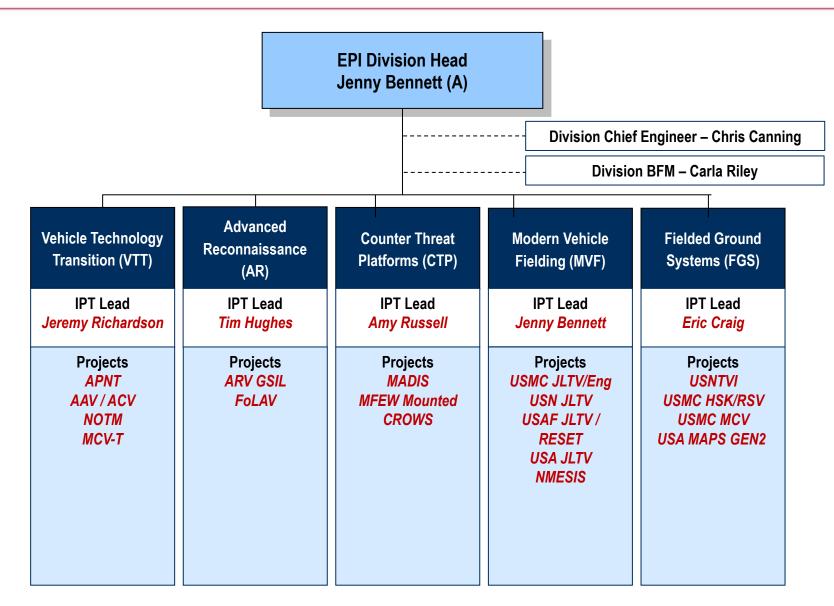
- C4ISR system integration (USMC, SOCOM, USN, USA, USAF)
- Platforms:
  - MRAP, JLTV, MTVR, LVSR
  - AAV, ACV-P & ACV-C, ARVC4UAS & LAV...
- Digital Integration Facility (DIF)
- Networking on the Move (NOTM)
- Assured Position Navigation and Timing (A-PNT)
- Marine Air Defense Integrated System (MADIS)







### **EPI Division Organization / IPT Efforts**



### **Embeds:**

- PfM CES
  - PM CS ExCOMM
- PEO LS
  - PM AAA

## Infrastructure Investments (Government Site):

- Vehicle Integration Facility
- 1 Secure Lab (APNT)
  - JIOR / SDREN
- ESIIC Bay GSILs
- Ranges
  - SAUSR
  - Poseidon Park
- ODM Lab



# Expeditionary Warfare Department EC3S Division Brief

Mr. Tim Turner
ExW Department
Expeditionary C3 Solutions
Division Head











### **Expeditionary C3 Solutions (EC3S) Division Overview**

### **Primary Partners:**

- MARCORSYSCOM
  - PM TCE
  - PM WGC
- US Navy
  - Naval Expeditionary Combat Command
- US SOCOM
  - PEO Tactical Information Systems
- MCWL
  - S&T Div
  - Ex Div
  - Wargaming Div
- PEO Land Systems
  - PM MAGTE C2
  - PM Expeditionary Radars
- ONR

### **IPTs**

Tactical Services and Infrastructure (TSI)

MAGTF C2 Services and Applications (MC2SA)

Advanced Technology Development (ATD)

USMC Communications Systems (UCS)

Special Operations Communications Systems (SOCS)

Electromagnetic Warfare Systems (EWS)

### What We Do

 Develop, integrate and equip Expeditionary Forces with mobile C3 facilities, devices and services that provide fused situational awareness, facilitate information sharing and enhances the decision support process.

### **Major Systems / Solutions**

- Operational Command Post (OCP)
- Combat Data Network (CDN)
- Common Hosting Environment (CHE)
- Tactical Communications Systems
- Joint Tactical Common Operational Picture Workstation (JTCW)
- Tactical Service Oriented Architecture (TSOA)
- Global Command Control System (GCCS) Tactical Combat Operations (TCO)
- Joint Battle Command Platform FoS
- Marine Corps Common Handheld (MCH)
- Ground/Air Task-Oriented Radar (G/ATOR)
- SOFTACS Deployable Network and SCAMPI
- MAGTF Electromagnetic Warfare Ground Family of Systems (MEGFoS)

Provide and
Sustain Tactical
Command,
Control and
Communications
capabilities to
Expeditionary
Forces



### **EC3S Division Organization / IPT Efforts**

Expeditionary Command, Control & Communications Solutions (EC3S) Division Tim Turner

Division CHENG – Clive Sugama
Division BFM – Brandon Harrison
Division Cont Support – Kimberly Harkins
Division PM Support – Terry Hill

### MAGTF Command & Control Services and Applications (MC2SA)

Thomas Sweatman

Global Combat and Control System Tactical Combat Operations (GCCS/TCO)

Joint Tactical Common Workstation (JTCW)

Tactical Service-Oriented Architecture (TSOA)

CJADC2 Support

#### Focus:

Soft & App Dev/ Integ
C2 Data Ana
Training Development
Software Cybersecurity

### Tactical Services and Infrastructure (TSI)

Travis Garrison

Combat Data Network (CDN)
/Operational Command Post (OCP)

Common Hosting Environment (CHE)

Joint Battle Command-Platform (JBC-P) Family of Systems (FoS) USMC

Wired in Defense (WID)

MAGTF Common Handheld (MCH)

Focus:

**Tactical Networking** 

Tactical IT/Network Mod

Cloud Computing

**Network Cybersecurity** 

### Advanced Technology Development (ATD)

Alex Hahn

PM Wargaming Center Support

MCWL S&T Support

**USMC Overmatch Support** 

### USMC Communications Systems (UCS)

Jack Buchanan

Tactical Comms Systems (TCS)

SATCOM:

Terrestrial High Capacity Comms (THC2)

Future Radar Systems (FRS)

**G/ATOR Modernization** 

## Special Operations Comms System (SOCS)

George Anderson

S) | SCAMPI

SOFTACS SDN

Silent Dagger

Expeditionary
Deployable Node (EDN)

Fly Away Broadcast System (FABS)

**Electromagnetic** 

**Warfare Systems** 

(EWS)
Lyle Witten

Marine

Electromagnetic

Warfare Ground

(MEGFoS)

Family of Systems

#### Focus:

MCWL Support
Wargaming Support
Naval Integration
S&T/R&D Efforts: MCWL

#### Focus:

Tactical Communications
Systems

### Focus:

SOCOM NECC S&T/R&D Efforts: PEO C4

#### Focus:

EW Systems



### Mission:

Conduct research, development, prototyping, engineering, test and evaluation, installation, and sustainment of integrated information warfare capabilities and services across all warfighting domains with an emphasis on Expeditionary Tactical Capabilities & Enterprise IT and Business Systems in order to drive innovation and warfighter information advantage.

### Vision:

WIN THE INFORMATION WAR.

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