Coast Guard Cyber Command

Driving Mission Execution

CAPT John Felker

Deputy Commander, CGCYBERCOM

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CGCYBERCOM Mission / Vision

The mission of the United States Coast Guard Cyber Command (CGCYBERCOM) is to identify, protect against, and counter electromagnetic threats to the maritime interests of the United States, provide cyber capabilities that foster excellence in the execution of Coast Guard operations, support DHS Cyber missions, and serve as the Service Component Command to US Cyber Command.

"Establish/Maintain a secure and resilient cyber operating environment for Coast Guard and marine operations."

CGCYBERCOM – Team Sport

DHS
(Title 50, 14)

DOT

Marine Transportation System
Maritime Critical Infrastructure
Vessel Traffic Centers
Volpe Center

Search and Rescue
Maine Safety
Aids to Navigation
Living Marine Resources,
Maritime Environmental
Protection
Ice Operations

Title 33/14:
Alien Migrant Interdiction
Counter Drug
Other Law Enforcement

DoD
Title 10

Homeland Security
Counterterrorism
Ports Waterways Coastal Security,
Defense Readiness

Joint Cyber Security Vulnerability Assessments w/
National Guard, DHS Cyber Security Eval Program (NCSD)

DOJ
(Title 33/14)

**Computer
Network Defense:**
Provide a Secure Platform to
Conduct Operations

CGOne to DoD thru
internet access points

**Intelligence
Community**
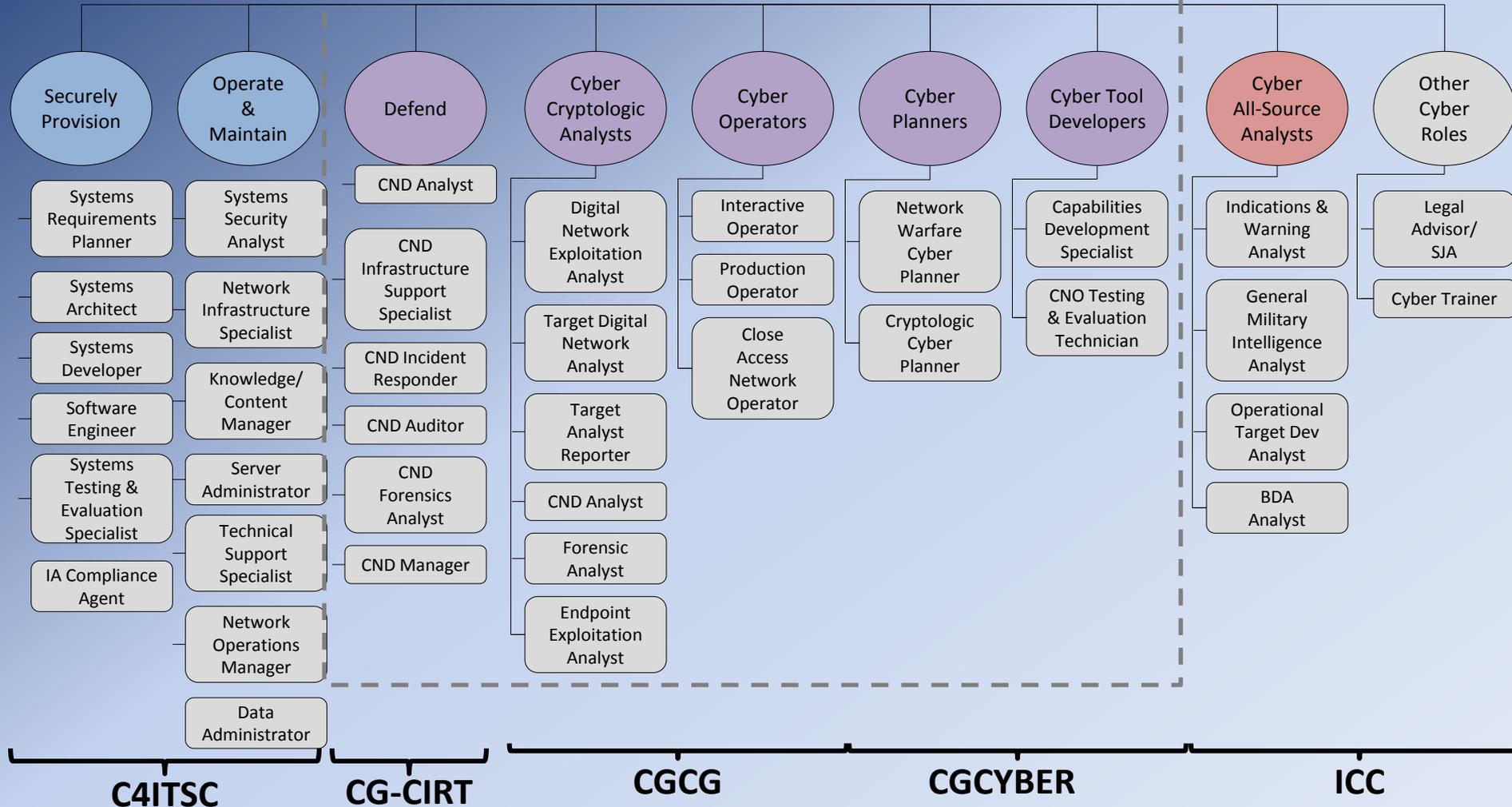Title 50

DoD sensors monitor
97% of Traffic

Terminal Fury
PACOM
PACFLEET
Joint Task Force-Homeland Defense
Service Component Command to USCYBERCOM
Support to 10th Fleet/Fleet Cyber

Integrated Cyberspace Workforce Framework

IT ⟵ ⟶ **IS**

Securely Provision
- Systems Requirements Planner
- Systems Architect
- Systems Developer
- Software Engineer
- Systems Testing & Evaluation Specialist
- IA Compliance Agent

Operate & Maintain
- Systems Security Analyst
- Network Infrastructure Specialist
- Knowledge/Content Manager
- Server Administrator
- Technical Support Specialist
- Network Operations Manager
- Data Administrator

Defend
- CND Analyst
- CND Infrastructure Support Specialist
- CND Incident Responder
- CND Auditor
- CND Forensics Analyst
- CND Manager

Cyber Cryptologic Analysts
- Digital Network Exploitation Analyst
- Target Digital Network Analyst
- Target Analyst Reporter
- CND Analyst
- Forensic Analyst
- Endpoint Exploitation Analyst

Cyber Operators
- Interactive Operator
- Production Operator
- Close Access Network Operator

Cyber Planners
- Network Warfare Cyber Planner
- Cryptologic Cyber Planner

Cyber Tool Developers
- Capabilities Development Specialist
- CNO Testing & Evaluation Technician

Cyber All-Source Analysts
- Indications & Warning Analyst
- General Military Intelligence Analyst
- Operational Target Dev Analyst
- BDA Analyst

Other Cyber Roles
- Legal Advisor/SJA
- Cyber Trainer

C4ITSC **CG-CIRT** **CGCG** **CGCYBER** **ICC**

The Threat

1. Nation-states

2. Criminals

3. Hacktivists

4. Natural Disasters

5. 'Self-inflicted gunshot wounds'

Mission Areas

Living Marine Resources

MISSION 2: Secure Borders

Law Enforcement, Marine Safety

Counter Drug

Homeland Security/Counter Terrorism
MISSION 1.4: CIKR
--Maritime CIKR
MISSION 2: Securing Borders
MISSION 5: Resiliency

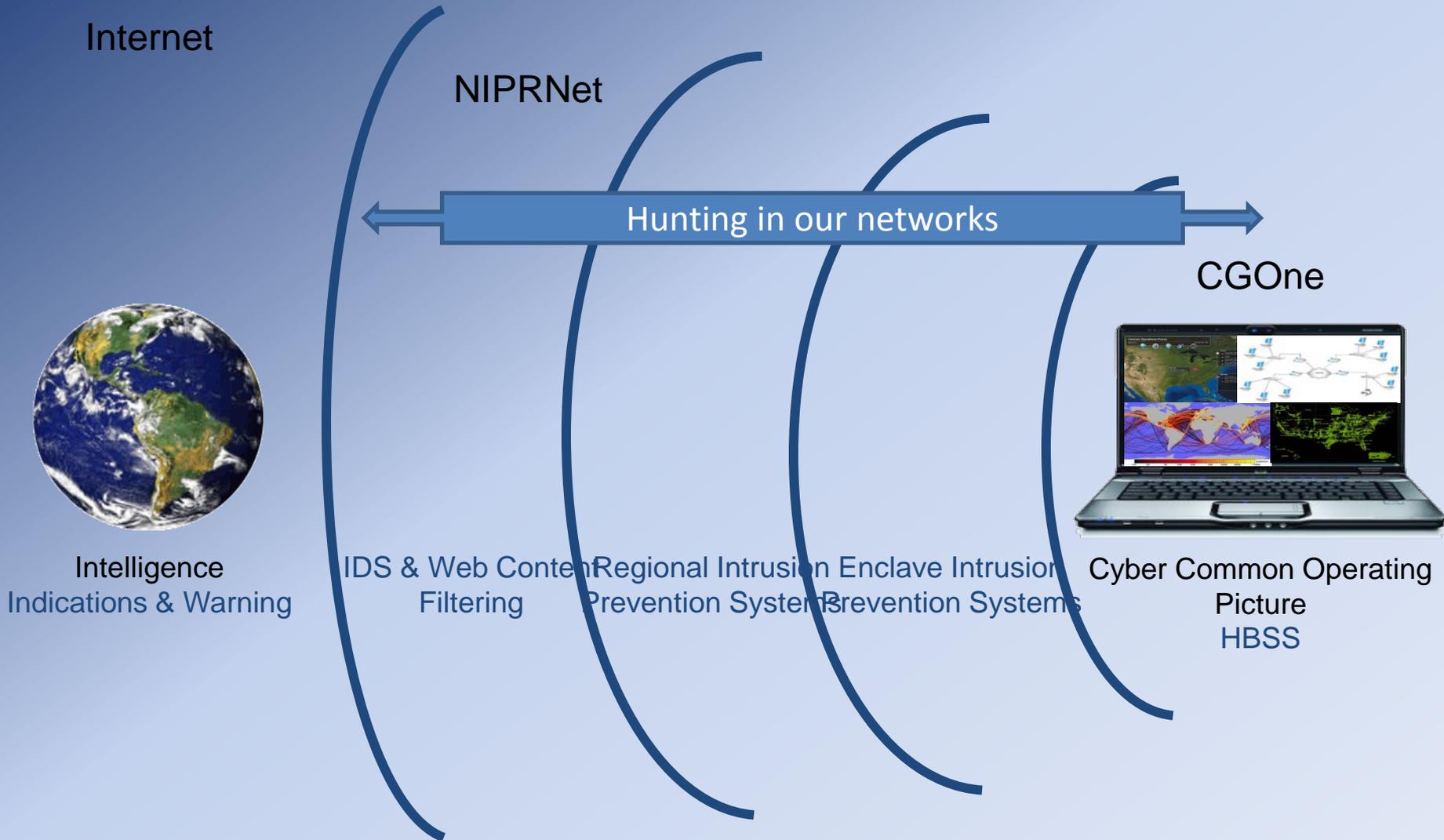MISSION 4: Cybersecurity
MISSION 1.4: CIKR

MISSION 3: Enforcing Immigration Laws

Provide a Secure Platform   Secure Ports and Waterways   Provide Decision Advantage

Employing Layered Defenses

Internet

NIPRNet

Hunting in our networks

CGOne

Intelligence
Indications & Warning

IDS & Web Content
Filtering

Regional Intrusion
Prevention System

Enclave Intrusion
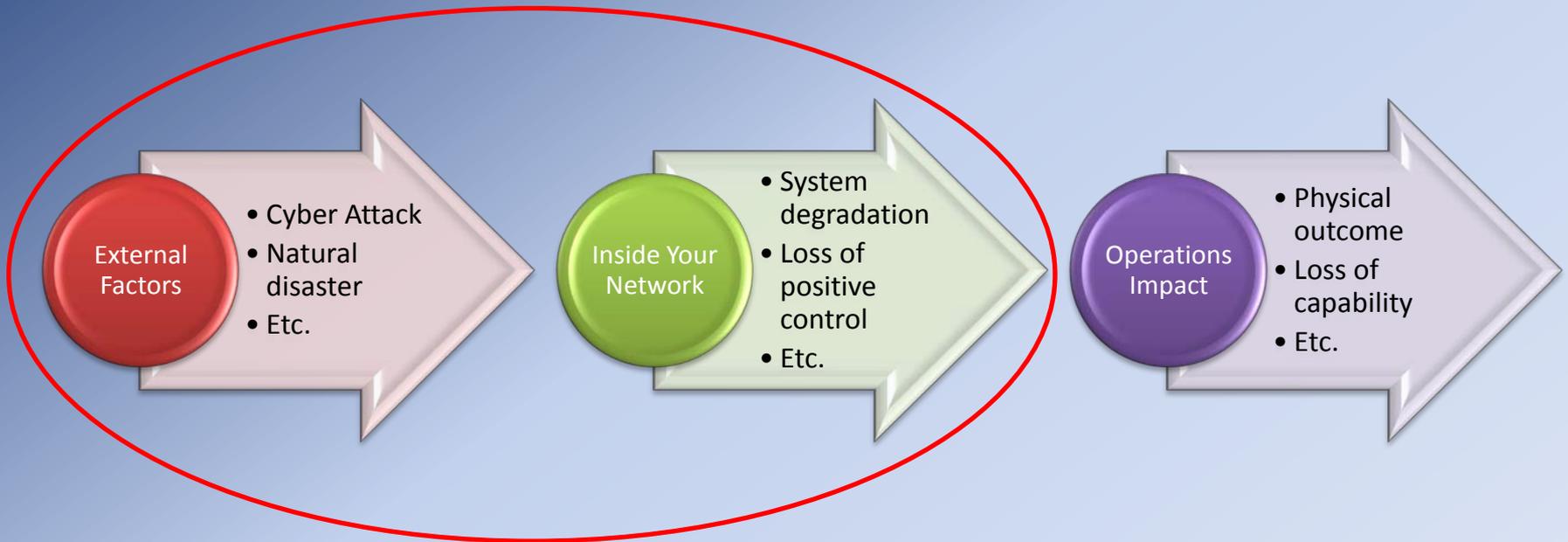Prevention Systems

Cyber Common Operating
Picture
HBSS

Maritime Transportation Scenario

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Where We Want to Focus

Outreach Support

Support industry with:

- Review of plans to mitigate threats, vulnerabilities and consequences

- Development of joint cyber workshops with COTP

  *INFORMATION SHARING

…end goal is effective preparation, response and recovery.

Provide Decision Advantage

- Cyber Additive to Intel Target Package

- Potential for Significant Cost Avoidance

- Potential for Significant Operational Success

  – Privacy Issues

CGCYBERCOM

- Defend our networks
  - Partner with DoD & DHS
- Critical Infrastructure Protection
  - Public/Private Partners – Info Sharing
- Decision Advantage
  - Cyber Component

QUESTIONS?