

USCG HSI Overview

MANPRINT Workshop

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HSI for Acquisitions Division
Commandant (CG-1B3)

Snapshots of the Coast

Guard

By law, the Coast Guard has 11 missions:

1. Ports, waterways, and coastal security
2. Drug interdiction
3. Aids to navigation
4. Search and rescue
5. Living marine resources
6. Marine safety
7. Defense readiness
8. Migrant interdiction
9. Marine environmental protection
10. Ice operations
11. Other law enforcement



CG-1B3 Purpose, Roles, Responsibilities, Functions

- Our mission is to represent the Assistant Commandant for Human Resources (CG-1) in fulfilling responsibilities as Technical Authority for Human Systems Integration (HSI).
- To this end, we will partner with the Acquisitions Directorate, Program Sponsors, Technical Authorities, & internal stakeholders to implement effective Human Systems Integration for system acquisitions including cutters, aircraft, C4ISR, logistics, & the associated workforce.

Overview of CG HSI

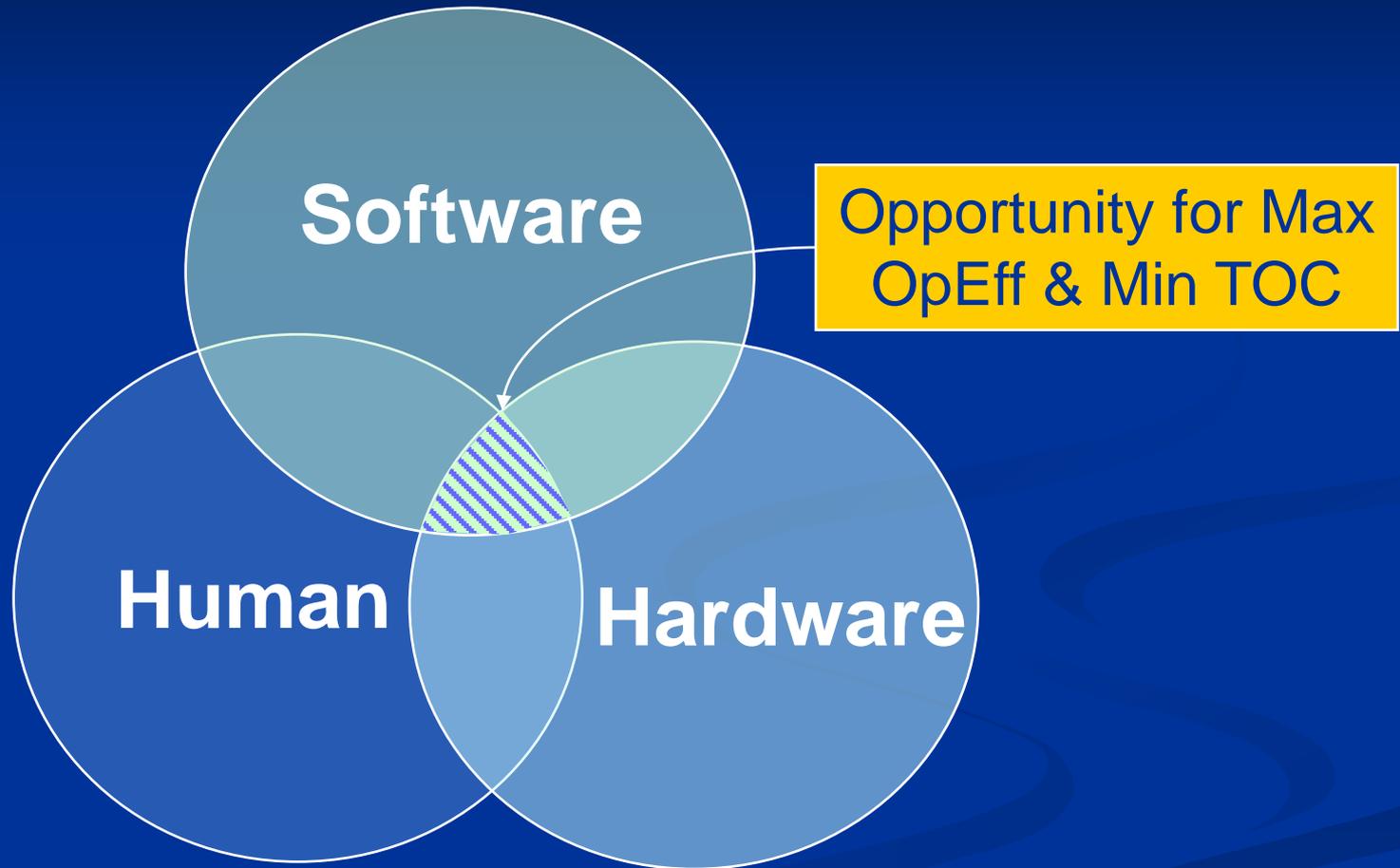
■ 7 Elements

- Manpower
- Personnel
- Training
- Human Factors Engineering (HFE)
- System Safety/Occupational Health
- Habitability
- Personnel Survivability

■ Technical and Management Approach

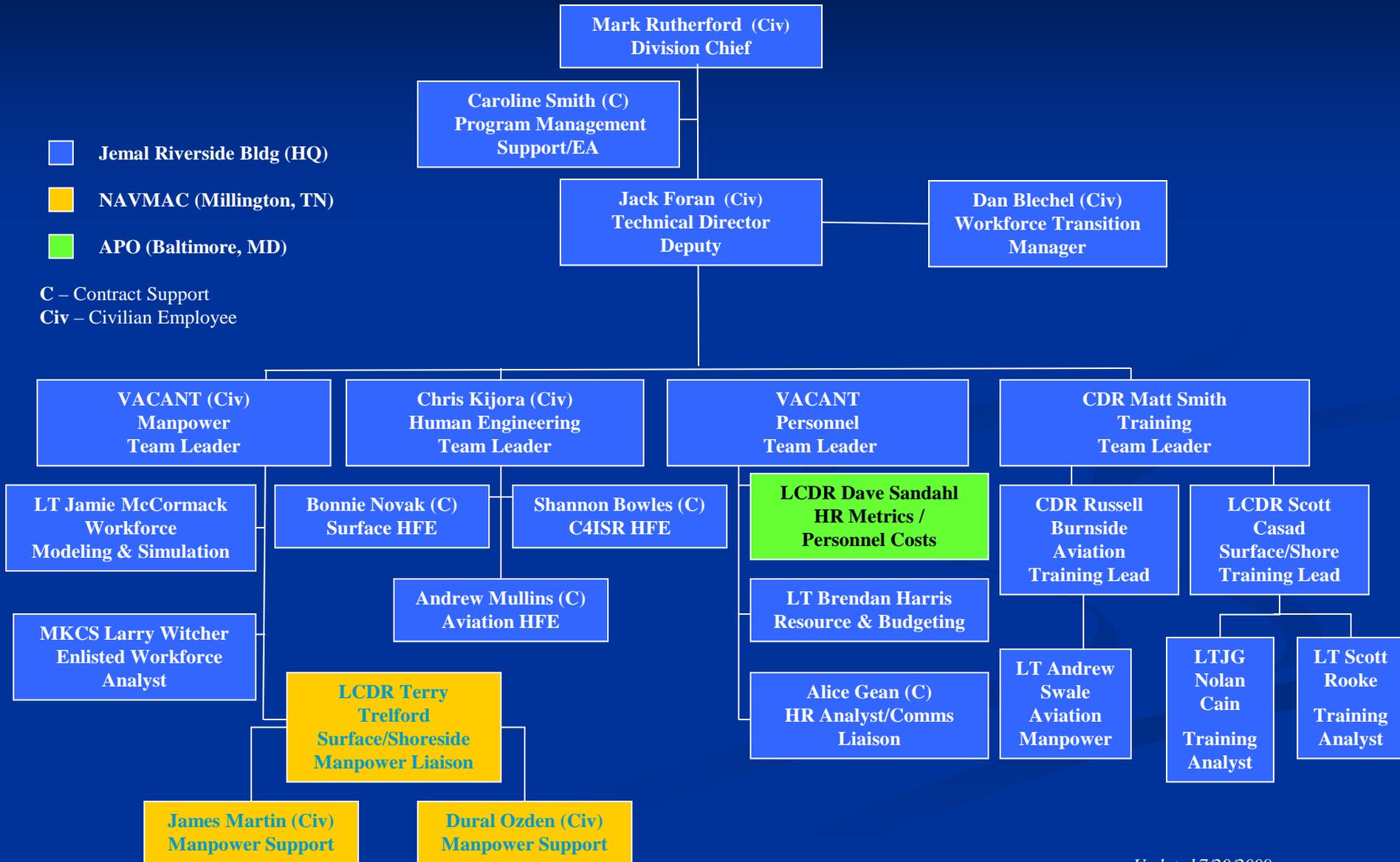
- Total System Engineering
- Total Ownership Cost

HSI – Systems Engineering vs. Logistics Approach



Total System View

Human Systems Integration for Acquisitions Division (CG-1B3) Staff Organization



CG-1 Internal Relationships

- Asst. Commandant for Human Resources (CG-1)
 - We are a “Front Office” Staff
 - We Provide Cross-Directorate Coverage
 - “Agency” for other CG-1 offices
 - Integration of CG-1 equities
 - Linkages to Functional Authorities (e.g., Training, Safety)
 - We bridge the gap between acquisition and sustainment
 - We Represent Overall HSI Technical Authority

Commandant's Staff

Relationships

- Link to Acquisition (CG-9)★★
 - Resources
 - Policy
 - Programs
 - R&D
- Link to Other Technical Authorities
 - Engineering and Logistics (CG-4)★★
 - C4&IT (CG-6)★★
- Link to Sponsors
 - Capability (CG-7)★★
 - Intelligence (CG-2)★★

External Relationships

- Engagement with USN
 - OPNAV 151
 - Virtual SYSCOM: NAVSEA 05H, NAVAIR, SPAWAR
 - NSWC
 - NAVMAC
 - NAWC-TSD
 - NPS
- JHSIWG Membership
- DHS – S&T Partnering
- MANPRINT Practitioner’s Workshop

Changing Coast Guard's Acquisition Landscape

- Acquisition Reform/Modernization
 - Establishment of CG-9 CAO and PEO
 - Assertion of CG System Integrator Role & Responsibility
 - Emphasis on Acquisition Professionalism
 - Establishment of 3 Independent Technical Authorities (CG-1, CG-4, CG-6)
 - New Requirements Generation Process
 - Revised Major Systems Acquisition Manual
 - Consolidation of CG-1/-4/-6/-9 under DCMS
- Aligning with Department of Homeland Security's acquisition management direction

CG-1 Technical Authority for HSI now embedded in Coast Guard MSAM



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COMDTINST 4700.5
16 OCT 2007

COMMANDANT INSTRUCTION 4700.5

Subj: CG-1 TECHNICAL AUTHORITY

- PURPOSE** This instruction establishes Commandant (CG-1)'s technical authority pertaining to Human Systems Integration (HSI), to include manpower, personnel, training, human factors engineering, occupational health and safety, habitability, and personnel survivability, for the design, construction, support and sustainment of Coast Guard systems and assets. This instruction explains HSI and technical authority responsibilities and interaction with asset and systems acquirers in providing best value systems engineering and technical products to achieve best total system performance within total ownership cost constraints.
- ACTION** Area, district, and sector commanders, commanders of maintenance and logistics commands, commanding officers of integrated support commands, commanding officers of headquarters units, assistant commandants for directorates, Judge Advocate General, and special staff elements at Headquarters shall comply with the provisions of this instruction. Internet release is authorized.
- DIRECTIVES AFFECTED** None.
- BACKGROUND** There are three fundamental components of every major system subject to the system engineering process: the hardware, the software, and the human. All three components must be integrated and balanced for maximum effectiveness and efficiency of the total system. It is essential throughout the design and construction of Coast Guard assets and systems that key technical and production issues related to each of these three components be addressed concurrently, properly and adequately. Commandant (CG-4) is the Technical Authority for the design, construction and maintenance of Coast Guard Systems and assets; the "hardware" component. Commandant (CG-6) is the Technical Authority for the design, development, deployment, security, protection and maintenance of all Coast Guard Command, Control, Communications, Computers and Information Technology Systems (C4IT), the "software" component. For the "human" component, Commandant

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Major Systems Acquisition Manual (MSAM)



COMDTINST M5000.10

Scope & Complexity of Acquisition Projects

Surface Projects

- National Security Cutter
- Offshore Patrol Cutter
- Mission Effectiveness Project
- Great Lakes Ice Breaker Replacement
- Fast Response Cutter
- Response Boat-Medium
- Coastal Patrol Boat
- Response Boat-Small
- Long Range Interceptor / Short Range Processor



Air Projects

- HC-130H/J Long Range Surveillance Aircraft
- HC-144A Medium Range Surveillance Aircraft
- HH/MH-60T Helicopter Upgrade
- HH/MH-65C Multi-mission Cutter Helicopter
- Vertical Takeoff and Landing Unmanned Aerial Vehicle



Command, Control, Communications, Computers Intelligence, Surveillance and Reconnaissance Projects

- Rescue 21
- Nationwide Automatic Identification System
- Interagency Operations Centers / Command 21
- Command, Control, Communications, Computers, Intelligence and Reconnaissance (C4ISR) Platform and Facility Upgrades

