



**Program Executive Office  
Command, Control, Communications,  
Computers and Intelligence (PEO C4I)**

# ***PEO C4I Remarks for NPS Acquisition Research Symposium***

**14 May 08  
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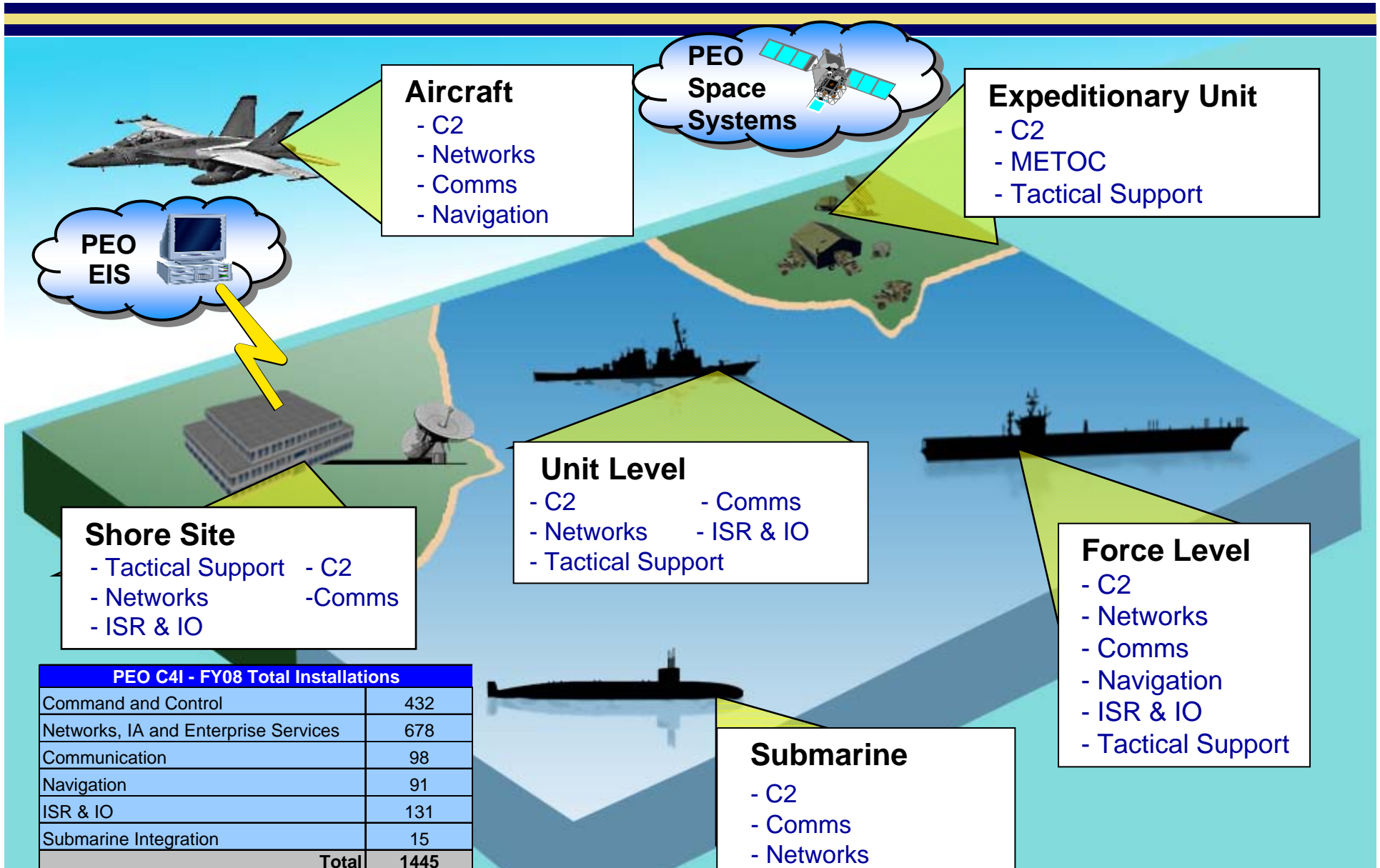
Statement A: *Approved for public release; distribution is unlimited (09 MAY 2008)*

**PEO C4I**





# PEO C4I Products Delivered

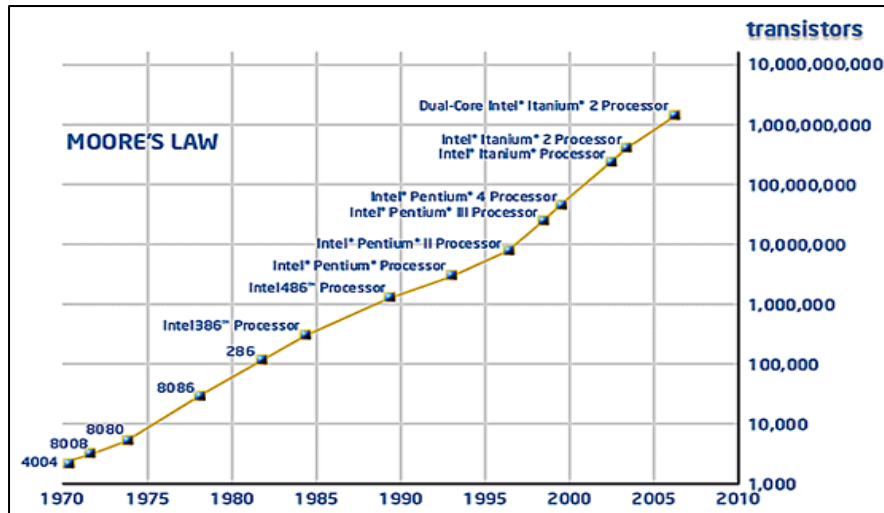


PEO C4I - FY08 Total Installations	
Command and Control	432
Networks, IA and Enterprise Services	678
Communication	98
Navigation	91
ISR & IO	131
Submarine Integration	15
<b>Total</b>	<b>1445</b>






# Technology Battlespace

## Increasing Processing Power



## Increasing Software Dependence

Platform	Year	% Functions Controlled by SW
 F-4	1960	8%
 F-15	1975	35%
 F-22	2000	80%

## Increasing Software Size & Complexity

Windows version	Processor	Memory	Hard disk
<a href="#">Windows 95<sup>[6]</sup></a>	25 MHz	8 MB	~50 MB
<a href="#">Windows 98<sup>[7]</sup></a>	66 MHz	24 MB	140–255 MB
<a href="#">Windows Me<sup>[8]</sup></a>	150 MHz	32 MB	320 MB
<a href="#">Windows 2000 Server<sup>[9]</sup></a>	133 MHz	64 MB	1 GB
<a href="#">Windows XP<sup>[10]</sup></a>	300 MHz	128 MB	1.5 GB
<a href="#">Windows Vista<sup>[11]</sup></a>	1 GHz	1 GB	15 GB



# Recent Events

## SCIENTIFIC AMERICAN

News - September 18, 2007

### China's Cyber Attacks Signal New Battlefield Is Online

Although a cyber war has yet to be declared, there have been plenty of online skirmishes

By Larry Greenemeier



- **Cyber Battlespace**
- **Increasing peer competition**
- **Infrastructure Vulnerabilities**
- **Maritime Domain Awareness**



INTERNATIONAL  
**Herald Tribune**

NATO concerned over cyber attacks on Estonia, possible impact on alliance

The Associated Press  
Thursday, May 17, 2007

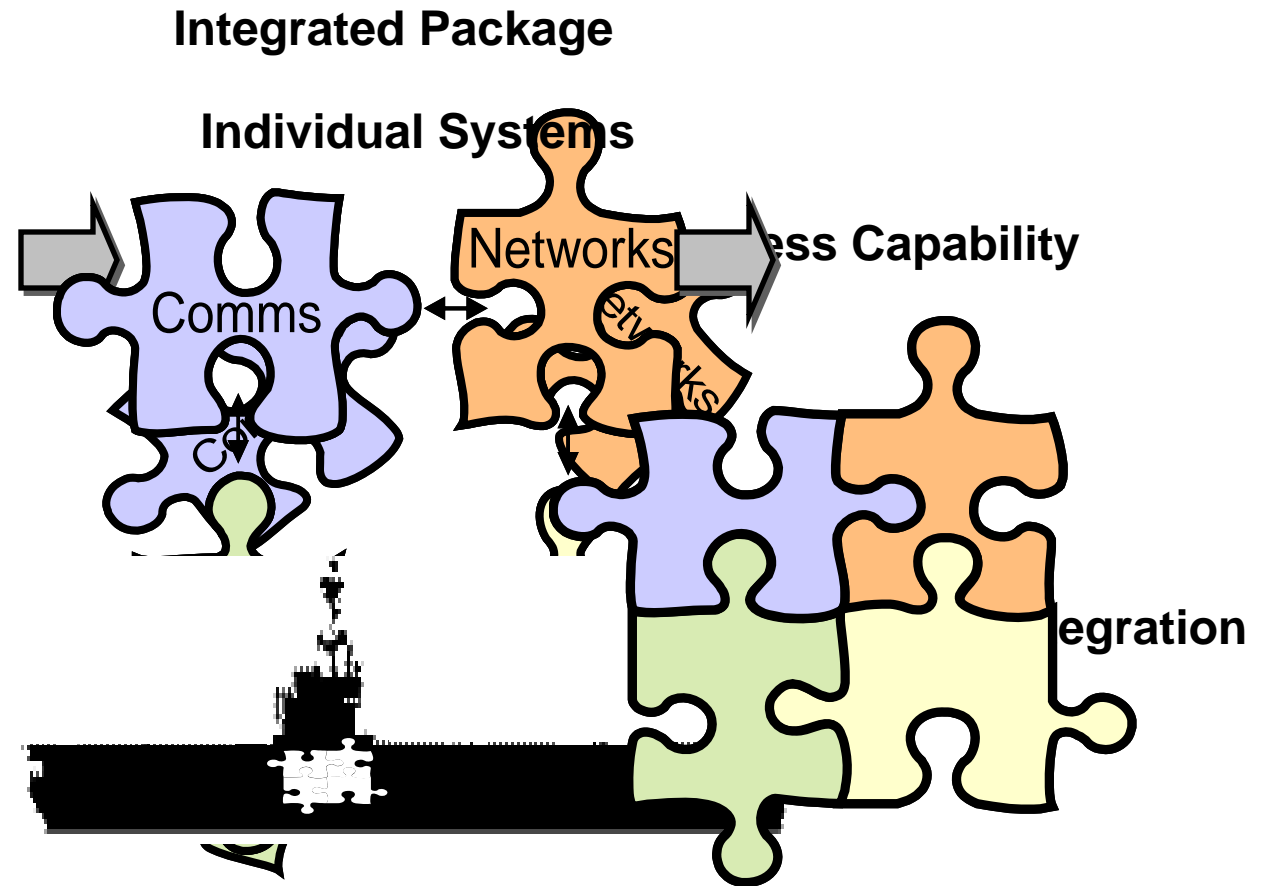


4<sup>th</sup> Undersea Cable Break: Between Qatar and UAE

Posted: 2008/02/04  
From: Mathaba



# End-to-End (E2E) Strategy



**Requires Enterprise Partnership: Requirements, Acquisition, Resource and Operational Communities**



# Integration Programs

## Deployable Joint Command and Control (DJC2)



Rapid Response Kit



En Route Configuration



Core Configuration with embedded Early Entry Configuration

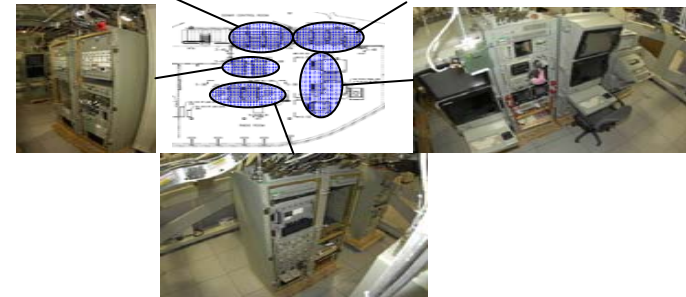


DJC2 at JTF Katrina

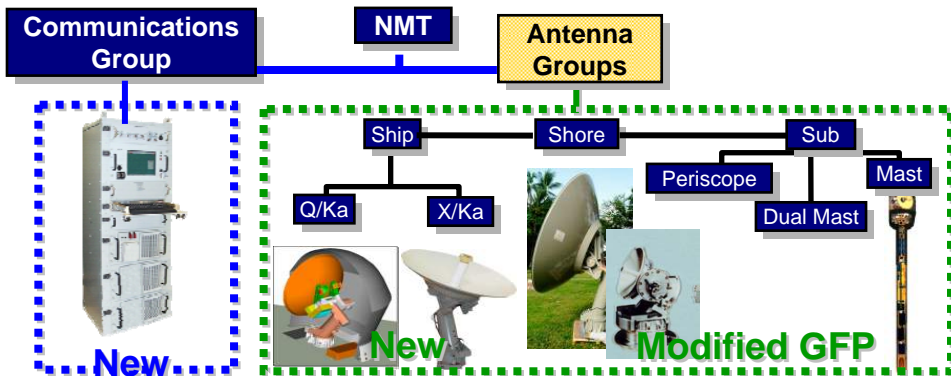


DJC2 Fieldings

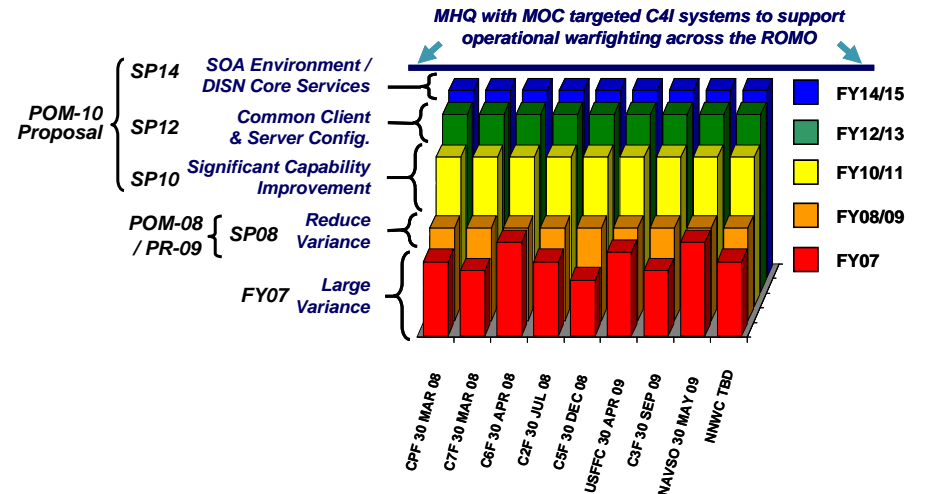
## Common Submarine Radio Room (CSRR)



## Navy Multi-band Terminal (NMT)



## Maritime Headquarters with Maritime Operations Center (MHQ MOC)





# Common Radio Room (CRR) Initiative

*Mission Need Identified*



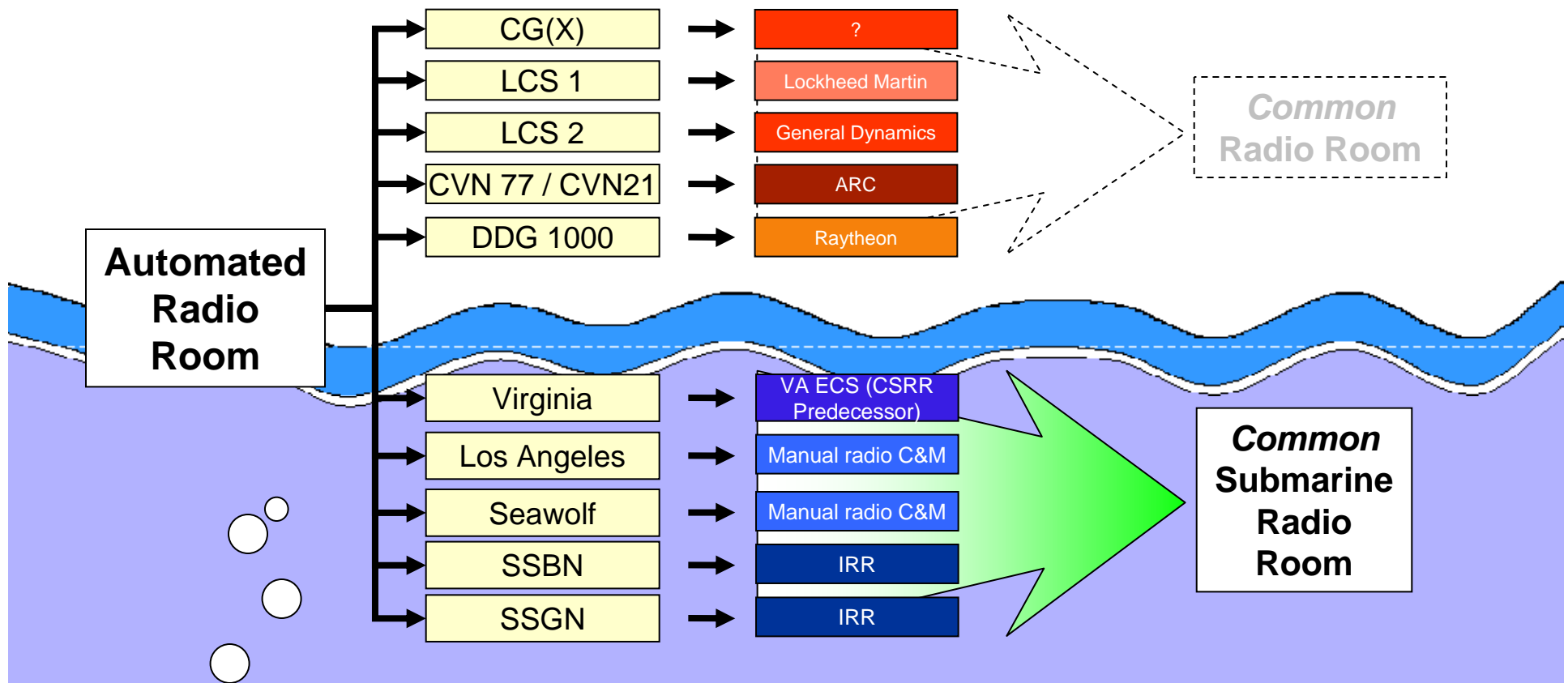
*Ship Classes Targeted*



*Unique SCN Solutions*



*Today's Requirement for a Sustainable Solution*



**Currently no automated radio room in the surface C4I Portfolio**