



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

# **Software Trends and Issues**

## ***2017 NPS Acquisition Seminar Panel-17***

**CAPT. Kurt Rothenhaus  
Program Manager (PMW 160)  
Tactical Navy Networks**

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited (24 APRIL 2017)

***Integrated Information  
Warfare for the  
21<sup>st</sup> Century***





# Afloat Software & Networking

*“Our Plotted Course”*



- *Evolve the Network to a Warfighting Platform*
- *Improve cyber resiliency*
- *Improve end-to-end system alignment*
- *Provide a platform to rapidly integrate emerging technologies for the warfighter*

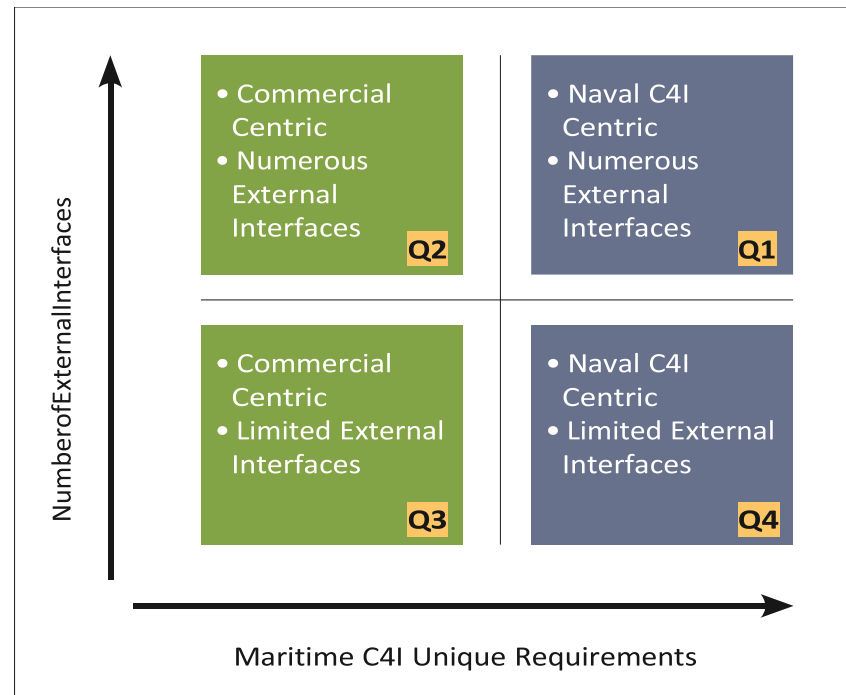
***Headwinds & Tides: asynchronous obsolescence cycles, shifting commercial base, rapid update cycles , SoS integration, resource competition***



# Program Manager

**Tactical Networks provides multi-warfare domain effects to the Fleet by delivering digital transport and agile computing resources to Fleet tactical and business applications**

- **Assured Network Transport:** WAN/LAN capabilities that allow data flows in a range of contested bandwidth environments across multiple off platform paths
- **Composable Accelerated Software:** Common software governance, testing, processes, tools and platform for provisioning across a wide service catalog from connected, hosted to CANES\_ACS\_eEnabled
- **Cyber Resilience@Machine Speed:** Provide capabilities, technical guidance and NETOPS procedures to defend the network from wide range of threats in a holistic framework in an accelerated threat battlespace
- **Digital Warfare Network Maneuver:** Provide data analytic framework and capabilities to support emerging requirements in Artificial Intelligence, Machine Learning and a Navy Digital Environment



\* Naval Engineers Journal 2016; Distributed Lethality

**“... we’re in a contest for maritime superiority, and the key word here is contest... it has been some number of decades since we’ve been contested on the high seas. That is what drives my thinking forward.”**  
**Admiral John C. Richardson, Chief of Naval Operations**



**We Deliver  
Information Warfare  
Capabilities to the  
Fleet.**

*Visit us at [www.peoc4i.navy.mil](http://www.peoc4i.navy.mil)*