



# Acquisition Directorate

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## C5I Program

# Challenges in Software Acquisition

History, Current Status, and Future of Coast Guard Logistics Information Management System Program (CG-LIMS)

CG-9334 | CAPT Ted Erdman

WEST 2024 Conference | February 2024





# Introduction

- CAPT Ted Erdman, Program Manager CG-LIMS  
June 2021 – Present
- Purpose – Discuss Challenges to the CG  
Program Manager for CG-LIMS historically and  
moving forward





# Agenda

- What is CG-LIMS
- CG-LIMS History
- USN Partnership
- CG-LIMS Current & Future
- Questions





# What is CG-LIMS?

## Supply Functions



Food Services



Inv Mgt/WH



Special Issue



Ordnance



Personal Gear Issue



HAZMAT



FIAR



Repair Parts



Principle End Items



Ship's Store

## Core Functions



Human Resources



External Interfaces



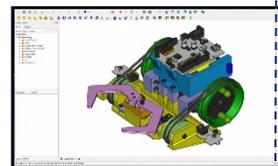
Supply



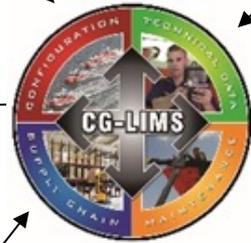
Financials



Configuration Mgt



Tech Data



## Maintenance Functions



Calibration Program



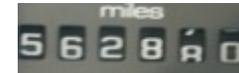
RMC/Shipyard/Depot



Readiness/ Availability Reporting



Modification Program



Equipment Usage Data



O-level Maint.



Maint. Planning & Scheduling



Tool Control



Certs/Quals



Maintenance

Coast Guard - Logistics Information Management System (CG-LIMS) : Will replace the logistics functions of USCG's legacy logistics systems with a single, modern, and integrated IT system for asset configuration, maintenance, supply support, and access to technical data.





# Program History

- Early 2000s – CG-LIMS capabilities part of CG’s Deepwater Program
- 2008 – CG-LIMS Program Chartered
- 2008-2010 – Initial program activities, first LCCE
- 2010 – 2012 - Scope Reduced due to LCCE vs. funding available
- 2012-2018 – Successful Pilot Using Oracle EBS Solution
- 2015 – CG-LIMS Technical Information Management (TIM) Goes Live
- 2016 – Scope Reinstated Due To Pilot Success
- 2018 – Program Breach for Cost and Schedule
- 2019 – Business Case Analysis
- 2020 – New Acquisition Decision Memorandum, Partner with USN NOBLE Solution
- 2021 – AWARE removed as Central Data Hub for NOBLE
- 2022 – NOBLE Incorporated into USN LOG IT Portfolio
- 2023 – Contractor Work Stopped on USN LOG IT Supply Tool
- 2023-Present – Continuing Partnership with USN. Pursuing Interim Activities to Ease Eventual Transition to USN LOG IT & Improve Existing CG Logistics IT





# Deepwater through 2012

- Deepwater – Acquire Fleet of Assets and Support for them, including logistics IT tools
- 2008 – CG-LIMS Program Chartered

Segments	Configuration & Maintenance Management	Supply Chain Management	Technical Information Management	Financial Integration	HR & External System Integration
Assets					
Aviation					
Surface					
Shore					





# 2008 - 2012

- LCCE Completed, Full Scope Unaffordable
- 2012, Scope Reduced, Program Downgraded to Level III

Segments	Configuration & Maintenance Management	Supply Chain Management	Technical Information Management	Financial Integration	HR & External System Integration
Assets					
Aviation					
Surface					
Shore					





# ATC Mobile Pilot

- 2012 – 2018
- Oracle EBS Solution
- Demonstrated
  - Organizational Level Maintenance for Aviation Assets
  - Technical Information Management
  - Limited Supply Chain Management
  - Downside – Dual Entry Required
- Success Creates It's Own Problems...





# 2015 – FMSII Interface

- Financial Integration Segment Changed to Interface with CG Financial Management Service Improvement Initiative (FMSII)

Segments	Configuration & Maintenance Management	Supply Chain Management	Technical Information Management	Financial Integration	HR & External System Integration
Assets					
Aviation					
	Interface w/ FMSII				
Surface					
Shore					



# 2015 - Technical Information Management System Challenges

- Legacy Surface and Aviation Technical Information Management Systems Had Unresolvable Cyber Vulnerabilities
- CG-LIMS Program Funded Development of New Technical Information Management Systems
  - CG Aviation Logistics Center Developed Solutions
  - Surface live in 2015
  - Aviation live in 2018
- CG-LIMS TIM In Use with Over 15,000 Users, Supports Surface, Aviation, C5IT





# 2016 – Scope Reinstated

- Pilot at ATC Mobile Successful
- Success Drives Scope to Be Reinstated for Surface and Shore

Segments	Configuration & Maintenance Management	Supply Chain Management	Technical Information Management	Financial Integration	HR & External System Integration
Assets					
Aviation			CG-LIMS TIM		
Surface					
Shore					
	Interface w/ FMSII				



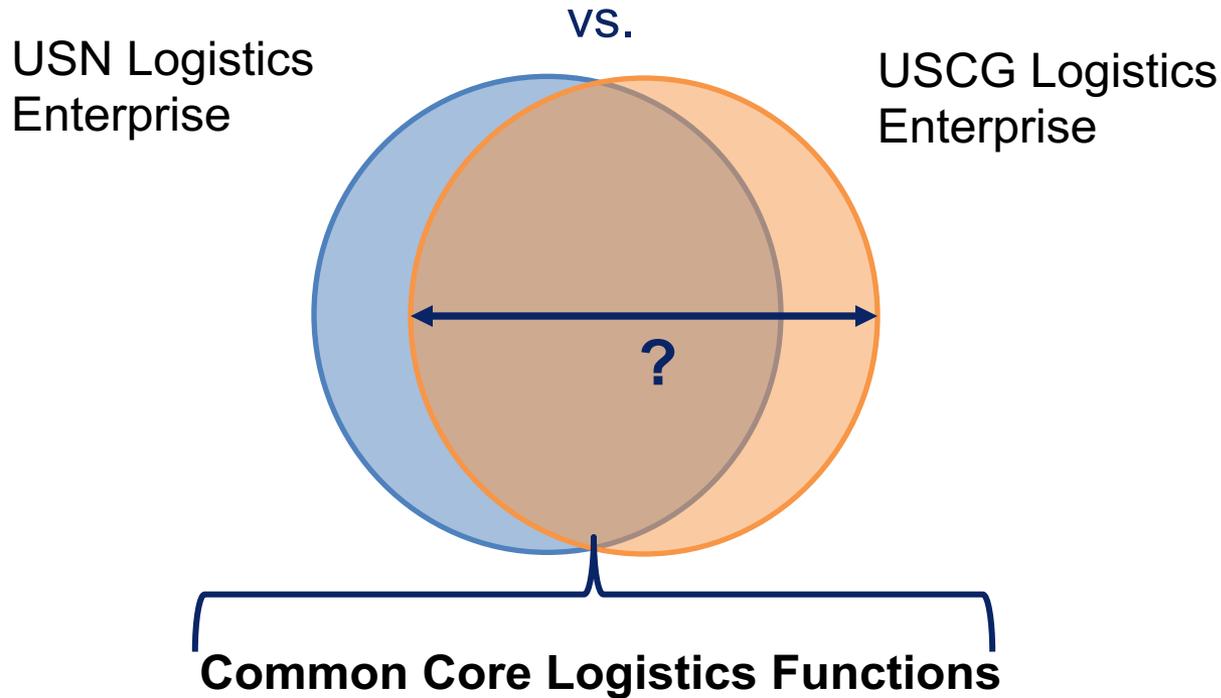
# 2018 – Baseline Challenges & Breach

- Program Baseline had been reduced to Aviation Only
- Scope Reinstatement Required Requirements Revision
- Revised Scope Drove Need to Re-baseline
- New LCCE Brought Affordability Questions
- Business Case Analysis Initiated





# USN & USCG Naval Log IT Partnership



Inventory/ Warehouse Management



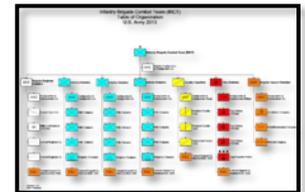
Corrective/ Preventative/ Scheduled Maintenance



MILSTRIP Requisitions & Purchase Requests



Equipment Accountability

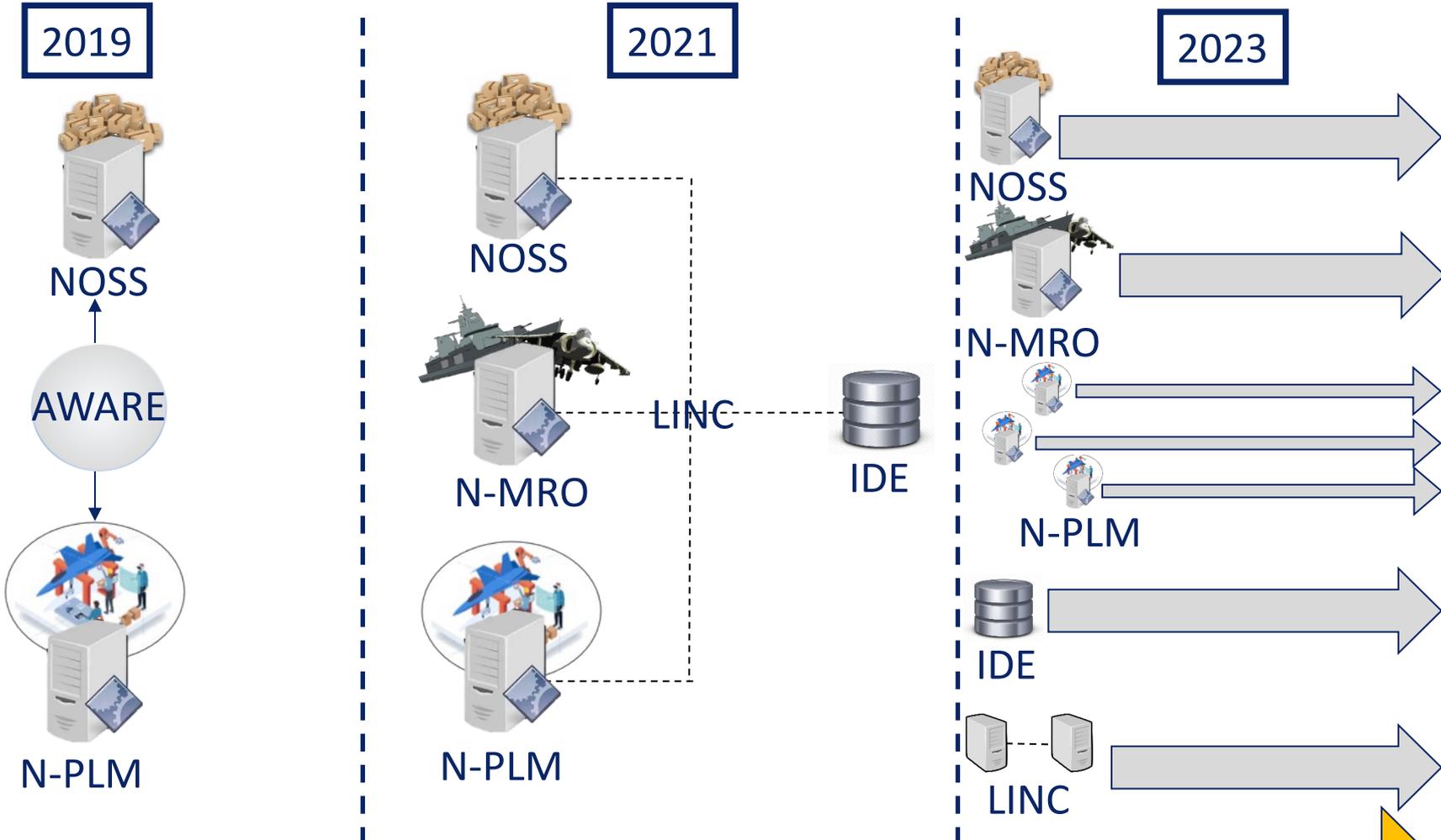


Configuration Mgt





# Evolution of Naval Log It Delivery



**From a single IT system...to coupled components with independent critical paths.**



# USN NOBLE Challenges

- USN Navy Operational Business Logistics Environment (NOBLE) consisted of:
  - Naval Maintenance Repair & Overhaul (N-MRO)
  - Naval Operational Supply System (NOSS)
  - Agile Warfighter Analytics Readiness Environment (AWARE)
- Long Term AWARE Costs Determined to Be Unaffordable Leading to Replanning





# USN LOG IT

- NOBLE was brought into the USN LOG IT Portfolio
  - Includes N-MRO & NOSS
  - Adds:
    - Logistics Information Naval Connector (LINC)
    - Naval Product Lifecycle Management (N-PLM)
    - Integrated Data Environment
- First Of Its Kind Integrated DOD Maintenance and Supply Tool
- Integrated Limited Deployment 1 (LD1) Initially Scheduled for FY22
  - N-MRO LD1 now FY24
  - NOSS LD schedule being revised





# Current & Future Initiatives

- Prepare for USN LOG IT Transition & Provide Improvements to CG Users, Capitalize on “Big Data”
  - Utilize CAMEO System Modeler for Functional Requirements Decomposition
  - Migrate CG Legacy Tools to CG Cloud
  - Cleanse Data
  - Identify Requirements that can be met by Data Lake using Artificial Intelligence & Machine Learning
  - Develop Remote/Mobile Capabilities
  - Develop DDIL Capabilities



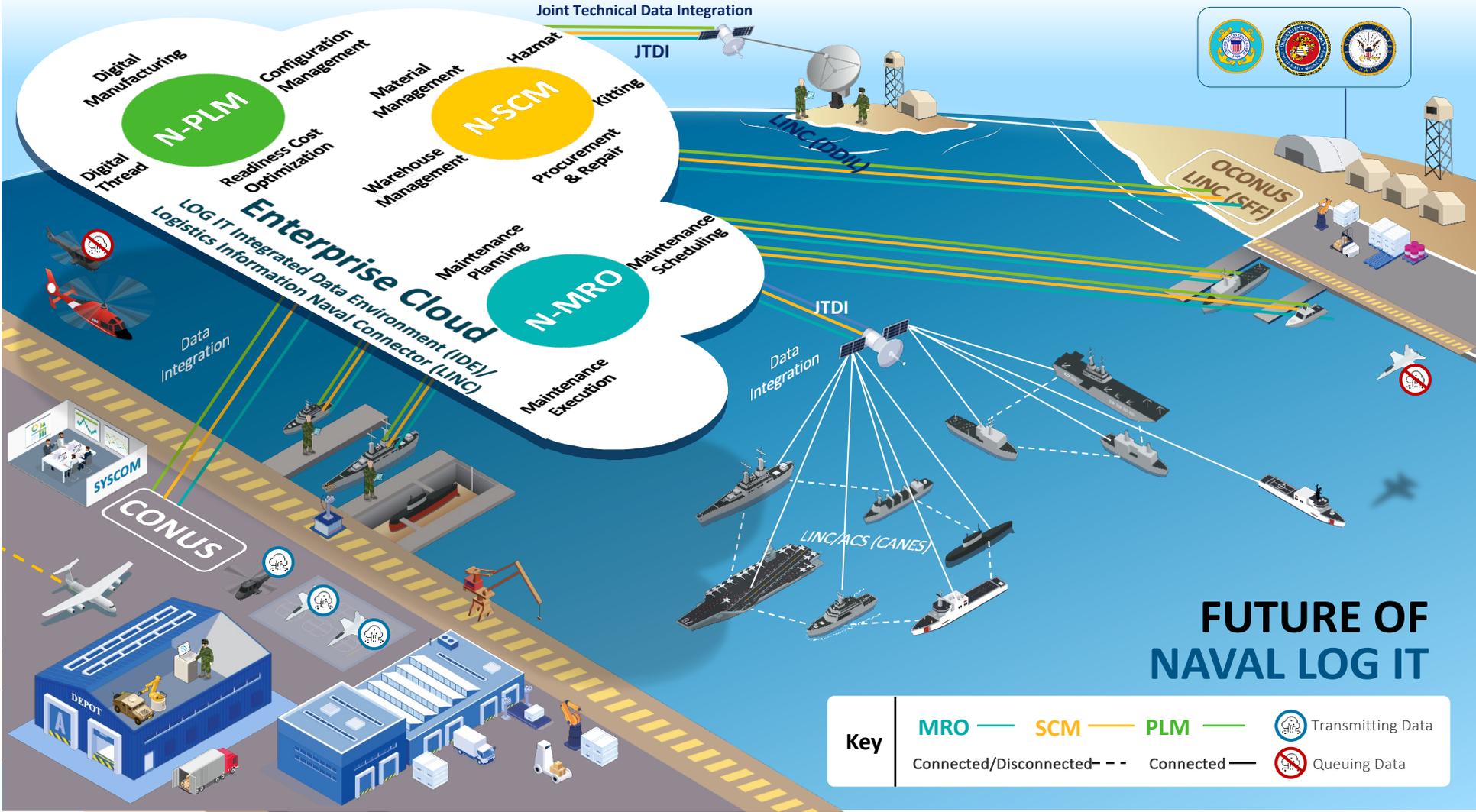


# Questions?





# Naval Log IT Operational View



## FUTURE OF NAVAL LOG IT

<b>Key</b>	MRO	SCM	PLM	Queueing Data
	Connected/Disconnected	Connected		Transmitting Data