Maintenance Value Chain
Driving Outcomes

Pay me now...
or pay me later

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Maintenance is an integral part of fleet and platform sustainment

- A sustainment discipline with its own resources, infrastructure, tools, and data

Treating Maintenance as a ‘value chain’ allows alignment within the spectrum of sustainment value chains

- Outcomes - Direct linkage of maintenance activities to fleet/platform outcomes

  - E.g., Steaming Hrs, RFT, On-Time Seat Miles, On-Time Air Freight

- Adjacencies - Tighter integration with adjacent sustainment disciplines
A Focus On Outcomes Aligns and Calibrates the Maintenance Value Chain

Outcomes

A. Effective Operating Hours (%)
   • (1 - Non-Mission Capable Rate) %

B. Cost
   • Fully-burdened labor, material, facilities, S&TE

C. Asset Quality
   • System/ part conformance to specification

D. Maintenance System Quality
   • Continuous effective op hours
   • Certified maintainers
The Value Chain Approach Highlights Dependencies and Adjacencies

Sustainment Value Chains

- Fleet / Platform Management
- Maintenance
- Supply Chain Operations
- Training
- Engineering

Outcomes

Sustainment can be optimized by focusing on value chain dependencies:

- Training and Maintenance
  - E.g., the availability of properly certified mechanics significantly influences performance outcome

- Engineering and Maintenance
  - E.g., proper engineering = design for maintainability, and proper maintenance = improved reliability

- Fleet / Platform and Maintenance
  - E.g., fleet/platform aging diminishes maintenance as a cost effective lever
Maintenance Value Chain Strengths, Weakness, and Opportunities

Strengths
- Tangible
- Focus on year-on-year improvement
- Technology driven
- Resilient and not brittle

Weaknesses
- Misaligned dependencies on infrastructure investment
- Supply chain integration
- Planning and configuration accounting
- Overly-dependent on resident expert knowledge
- Cost Control and Understanding

Opportunities
- Forecasting and associated variability
- Alignment with the supply chain
- Improved balance between platform age and maintenance requirements
- Own vs rent capability – infrastructure-driven versus skillsets-driven
Summary

Value chain analysis will lead to better maintenance integration in sustainment

- Aligns maintenance with other value chains
- Drives alignment within the maintenance value chain itself

A focus on outcomes vice activities is key to building and aligning the maintenance value chain

This approach significantly improves adjacent value chains

- Brings standardization
- Enables benchmarking

‘Community of Interest’

- Build the framework for the maintenance value chains and other aligned value chains