



# Intelligence Software Sustainment Considerations

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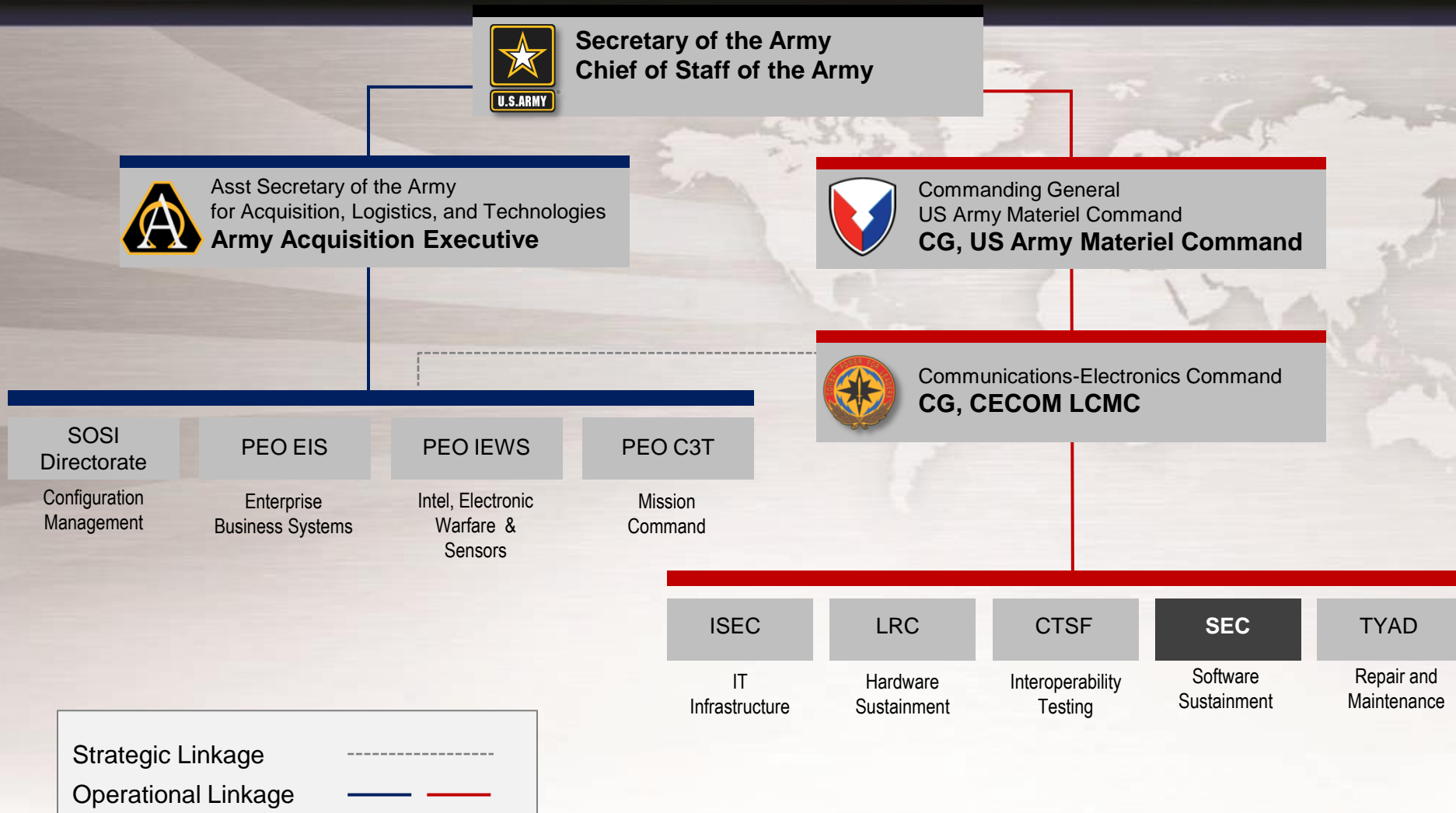
# Key Takeaways

- Post Deployment and Production Software Support (PDSS/PPSS) is a critical engineering activity in the acquisition lifecycle – it ensures operational and cybersecurity readiness of Programs of Record (PoR)
- PPSS mission for Command, Control, Communications, Computers, Intelligence Surveillance and Reconnaissance (C4ISR) systems has grown significantly over the past decade
- Complexity and software intensive nature of today's C4ISR PoRs present unique challenges
- CECOM SEC is exploring improved engineering principles and practices to shape and influence software acquisitions to provide agile, sustainable solutions in support of Warfighter needs.





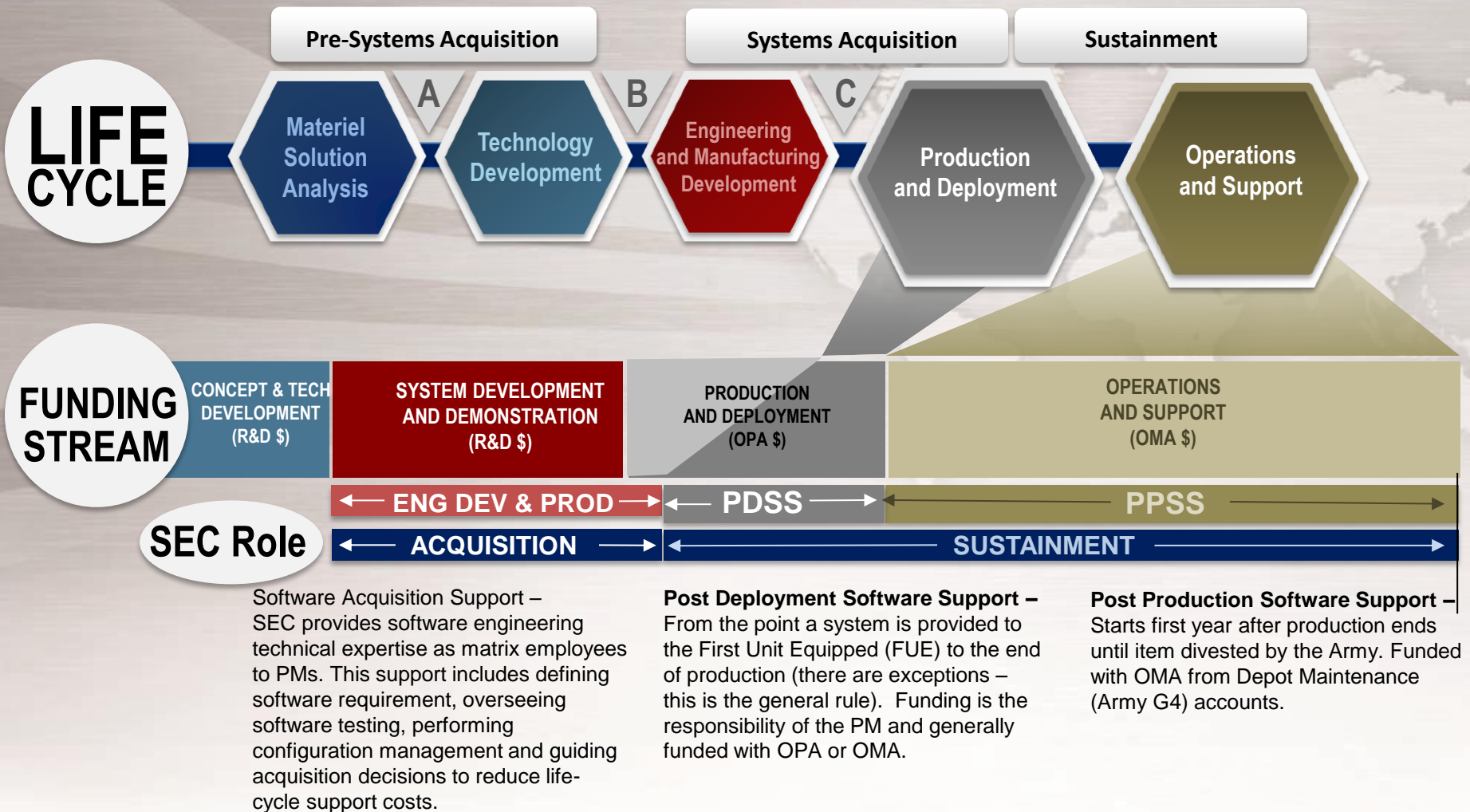
# CECOM SEC in the Army Team



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# SEC's Role in the Acquisition Lifecycle



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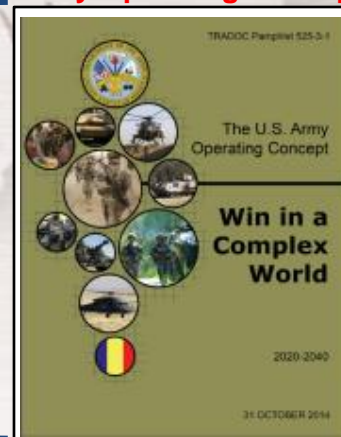




# Evolving Environment

- Army re-balancing from a decade(+) years of major deployments
- Focus on equipping **readiness**, capacity and sustainability
- Fiscal constraints and turbulent budget conditions
- Continuously evolving standards and protocols
- Significant growth of IT related technologies
- Regionally Aligned Forces that are Globally engaged
  - Adversaries who will challenge advantages in all domains (land, air, maritime, space, and cyberspace)
  - Part of joint, inter-organizational, multinational teams

## Army Operating Concept



DCGS-A is a critical enabler for “units to possess the ability to operate dispersed over wide areas because they are able to integrate intelligence and operations to develop situational understanding through action”

*Army Operating Concept (2014)*



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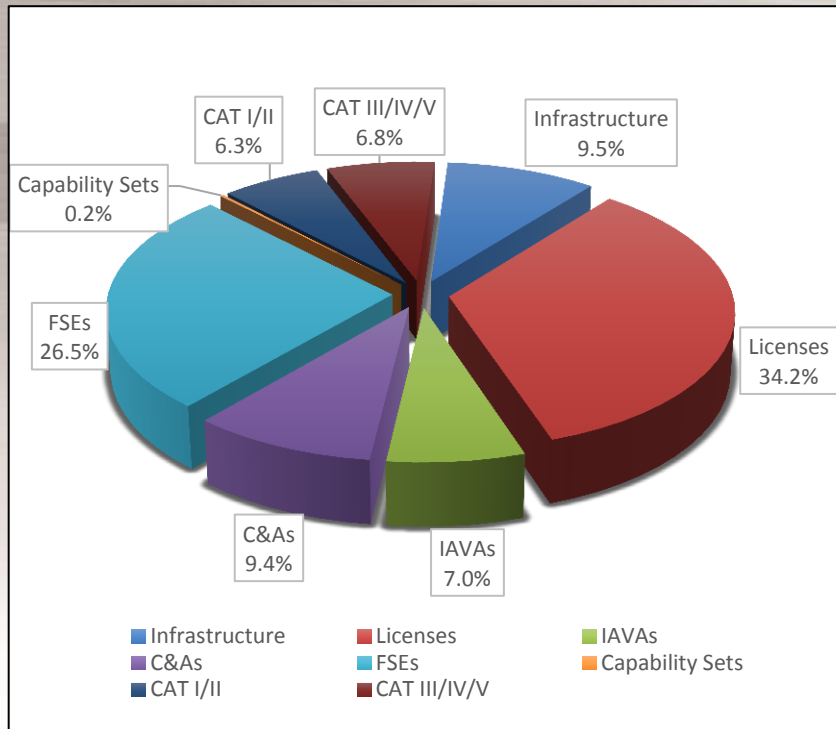
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# Post Production Software Support (PPSS) Focusing on Agility and Readiness

Improving system/software design improves the ability to maintain, disseminate and incorporate software engineering support to afford a rapid response to changes the Army will require in support of the Warfighting Domains, while reducing the cost drivers during the systems sustainment phase.

## Distribution of DCGS-A Inc 1 PPSS Costs (FY17-21)

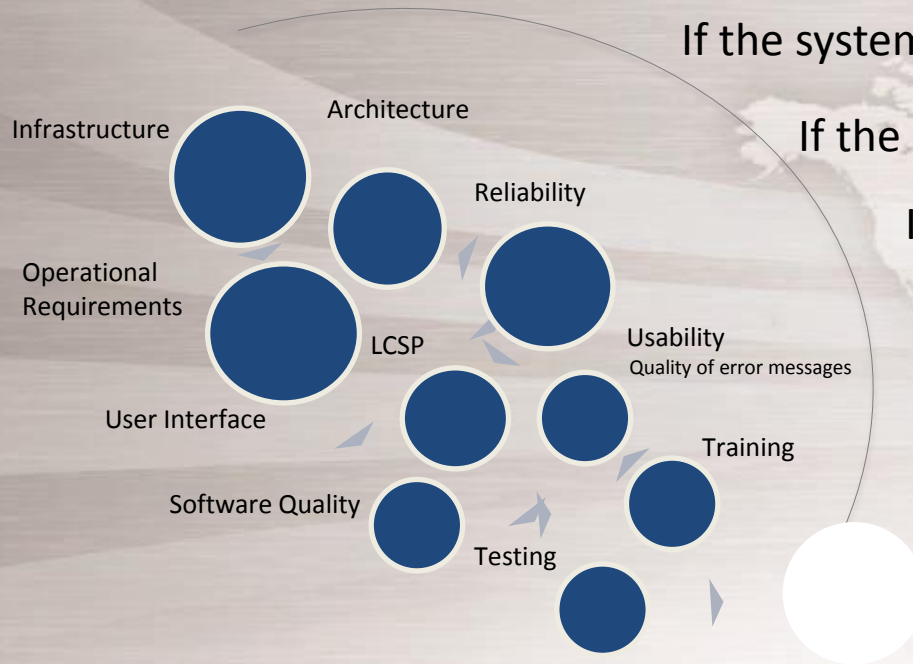


## Focus Areas During Acquisition

- Teaming/Collaboration with Government and Industry Team
- Continuous Quality Assurance
- Continuous Information Assurance Engineering/Cyber
- Configuration Management
- Robust Testing Strategy
- Evaluation of COTS vs. GOTS vs. new development /Data Rights
- Establishing **core** PPSS capabilities
- Focus on Ease-of-Use/Incorporation
- Licensing Strategy (Reduction)



# Conclusions



If the system isn't sustainable, it's not usable

If the system isn't usable, the mission fails

If the mission fails, we've failed the Soldier

So...

✓ ***Consider how early decisions impact the equipping and sustainment of the force.***

**Decisions made** during technology development and engineering and manufacturing development ***will impact*** the supportability and sustainability of the system for the Soldier.



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