

OASD Logistics and Materiel Readiness



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Life-Cycle Sustainment Plan Annotated Outline

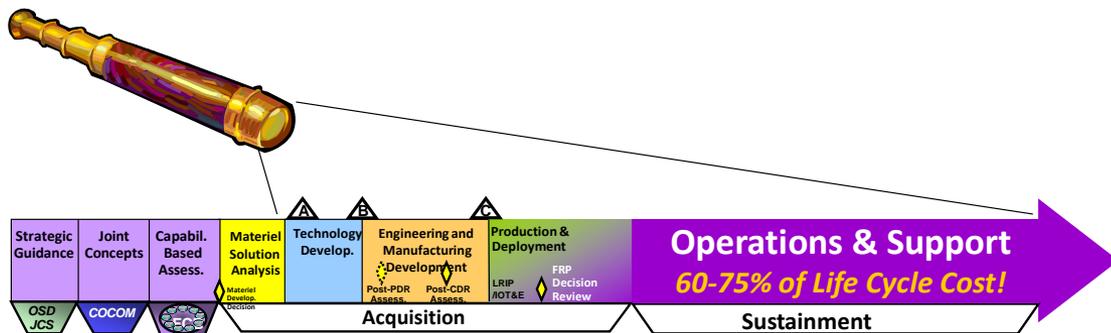
LCSP Lunch and Learn Briefing
April 16, 2014



Agenda

- ❑ LCSP Background and Perspective
- ❑ Outline and Expectations
- ❑ LCSP Phase Emphasis
- ❑ LCSP and RFPs
- ❑ Next Steps
- ❑ Conclusion

He Who Fails To Plan is Planning To Fail



<https://acc.dau.mil/lcsp-outline>



LCSP...an introduction

❑ LCSP Facts

- The Life-cycle Sustainment Plan (LCSP) is the **program's primary management tool** to satisfy the Warfighter's **sustainment requirements** through the delivery of a product support package*.
- **Separated** from Acquisition Strategy
- Annotated outline
 - **Required for all programs**
 - Approval for ACAT ID by ASD(L&MR); others (IAM, 1C) @Component

❑ Key document for:

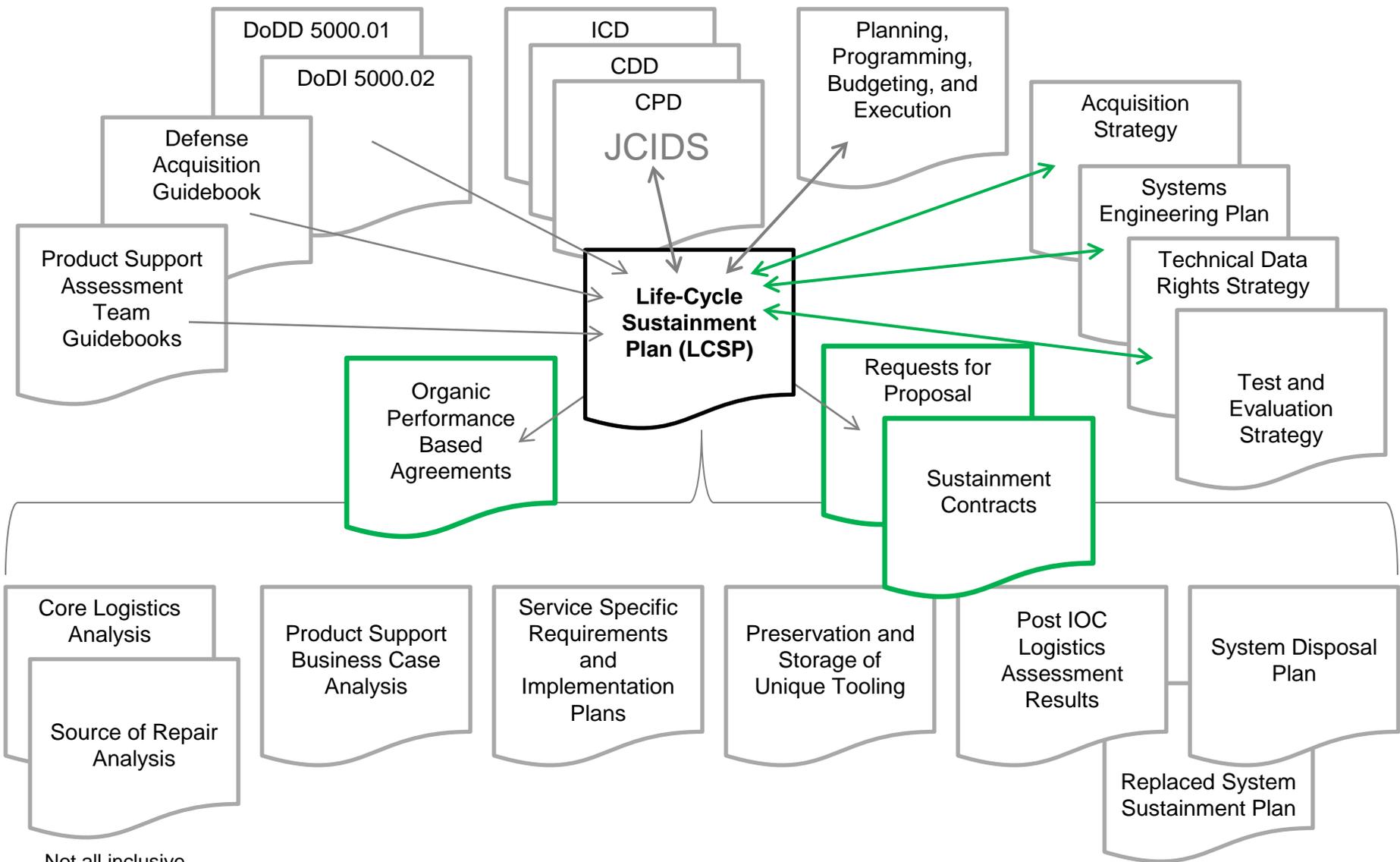
- **Programs**
- Milestone decision authorities
- Oversight and policy roles

In today's tight budget climate, the LCSP facilitates cross-functional alignment among acquisition and sustainment stakeholders to deliver affordable systems

*The logistics elements and any sustainment process contracts/agreements to attain and sustain the maintenance and support needed for materiel availability..."sustainment" and "product support" are synonymous



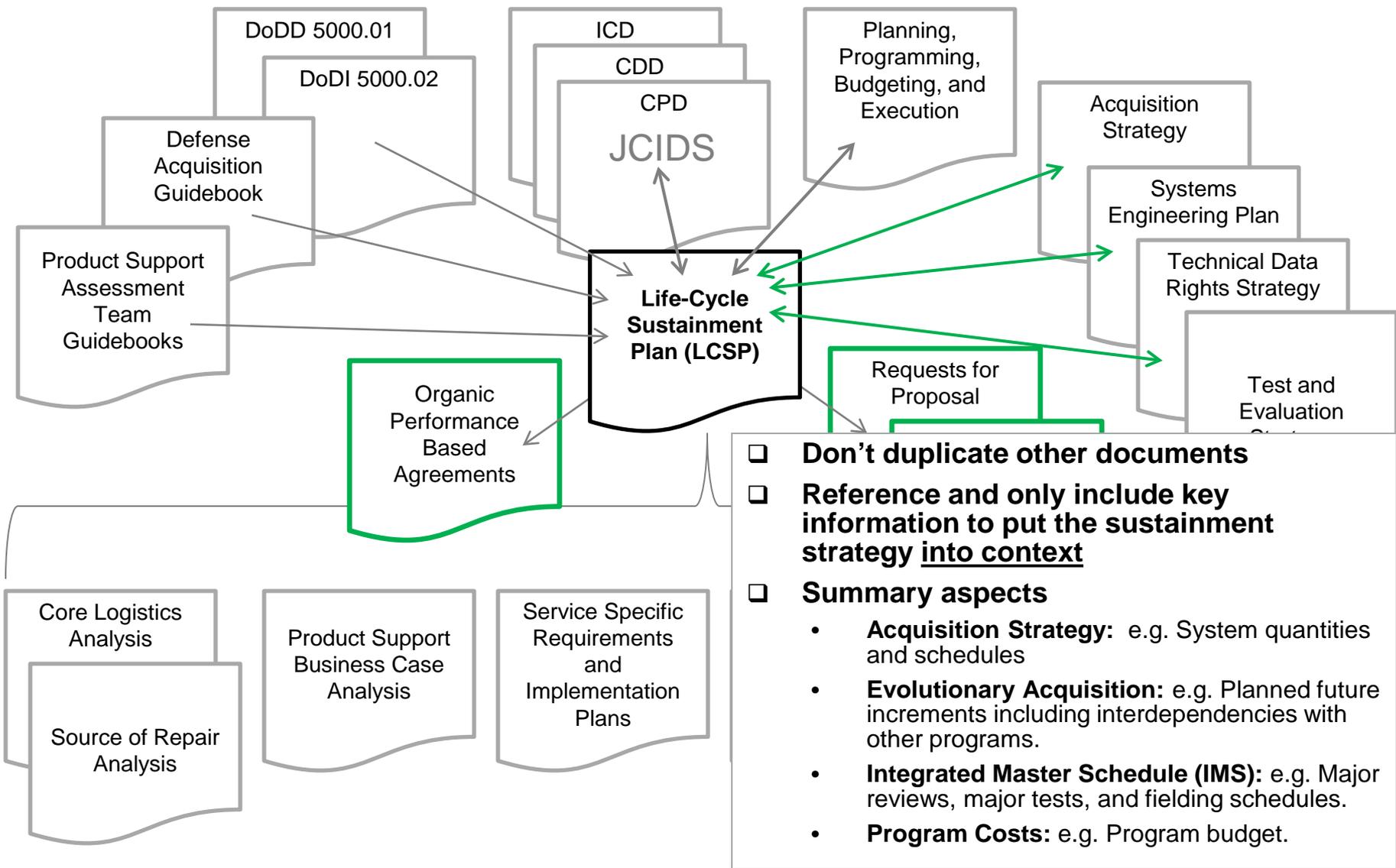
The LCSP is the nexus of critical thinking to deliver affordable life-cycle product support



Not all inclusive



The LCSP is the nexus of critical thinking to deliver affordable life-cycle product support





Key LCSP Purpose

The program's management tool to **communicate**, align, and integrate product support stakeholders efforts formulating, implementing, and executing the sustainment strategy

Both Teams Are Playing Football



...but they are not playing the same game.



The LCSP Is Not

❑ It is not a rehash of policy or guidance

- It is the program's plan for accomplishing policy and associated guidance
- It focuses on **specifically how** the program will implement it
 - Who will do what
 - When
 - How (specific tools/processes)
 - How much it will cost



Guidance already documented in the DAG

❑ It is not put together for milestone reviews

- **Program's management tool** for communicating the plan

❑ It is not static

- It is a living document describing the sustainment approach and resources necessary across the life cycle
- The LCSP documents the **current** program plan relative to sustainment
- It **evolves**



What We Are Seeing

- ❑ **LCSPs are not PM/PSM's management tool**

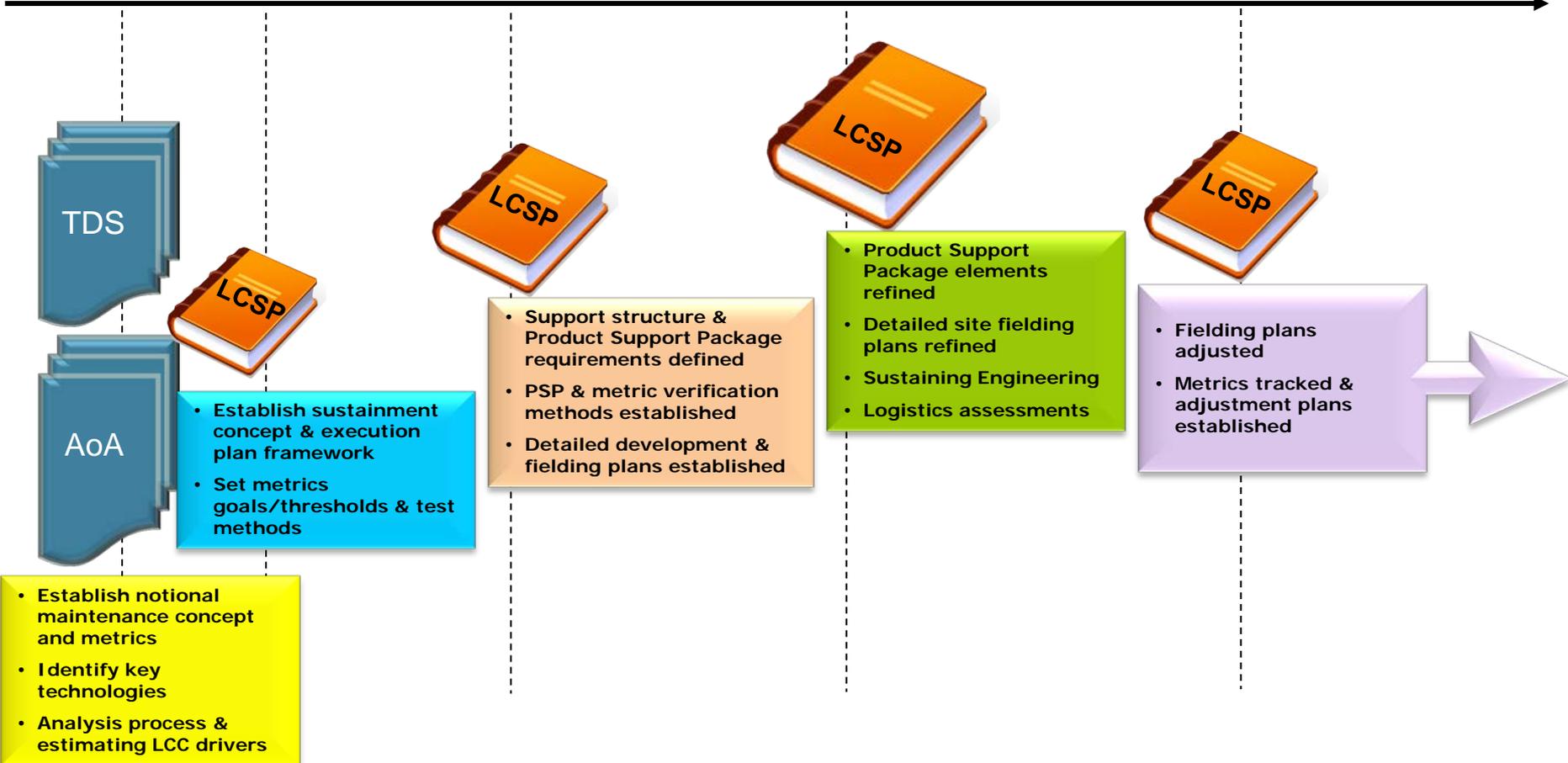
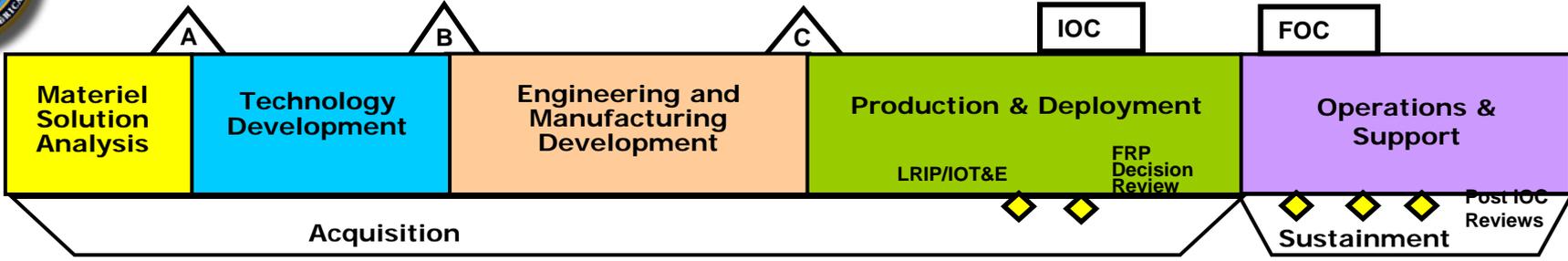
- ❑ **Check the block mentality**
 - Missing the concept of LCSP being the baseline plan as of "now"
 - Reluctance to tailor to meet program needs

- ❑ **Too many words / cut and paste**

- ❑ **Limited planning, in a reactionary mode**
 - Limited flow of requirements to execution
 - Limited linkage with other acquisition documents

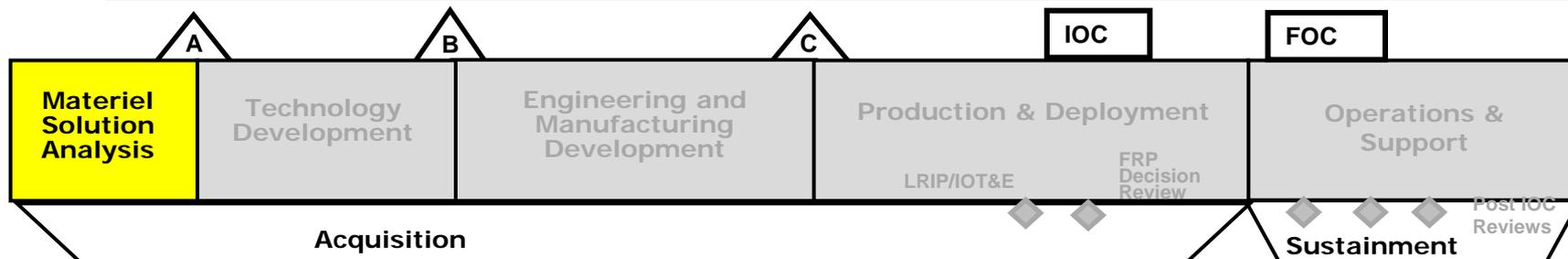


The LCSP Evolves





LCSP Phase Emphasis: Material Solution Analysis Phase



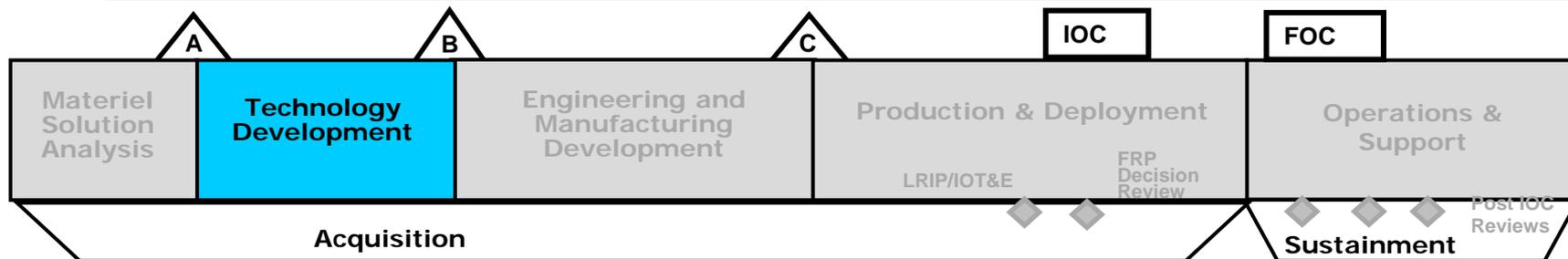
- Establish notional maintenance concept and metrics
- Identify key technologies
- Analysis process & estimating LCC drivers

LCSP Focus:

- Framing the baseline product support strategy
- Analytical process for determining:
 - Affordable metrics
 - Cost drivers and availability degraders
- Key sustainment technologies requiring development



LCSP Phase Emphasis: Technology Development Phase



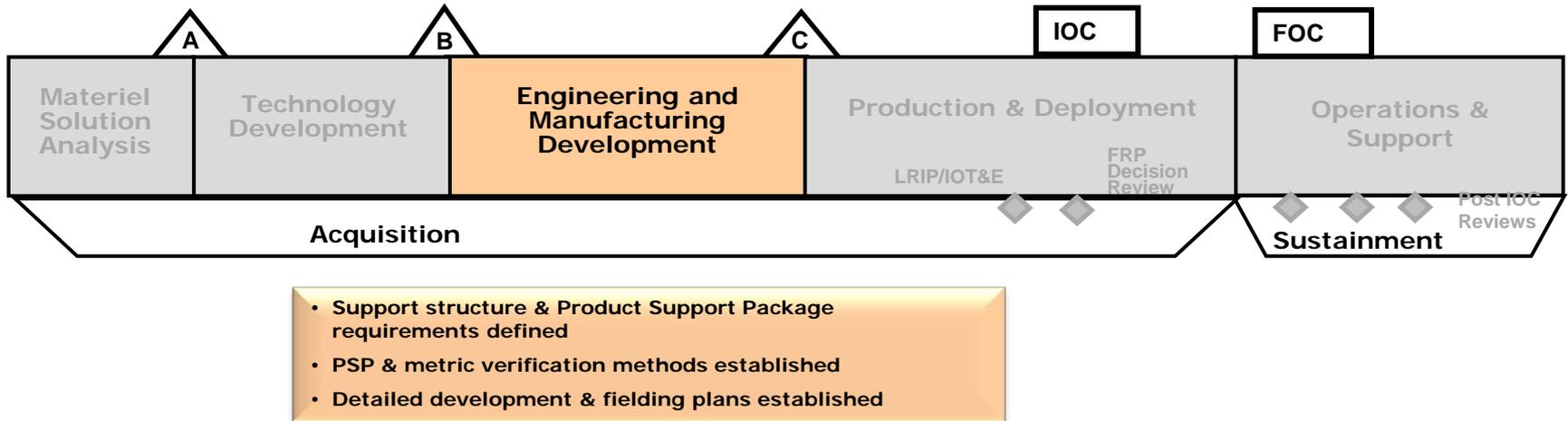
- Establish sustainment concept & execution plan framework
- Set metrics goals/thresholds & test methods

LCSP Focus

- Baseline product support strategy
- Analytical process for determining affordable metrics goals and thresholds:
 - System and subsystem level
 - Supply chain
- Ensuring the supportability design feature requirements are incorporated in the overall design specifications
 - Sustainment metrics test methods



LCSP Phase Emphasis: Engineering and Manufacturing Development Phase

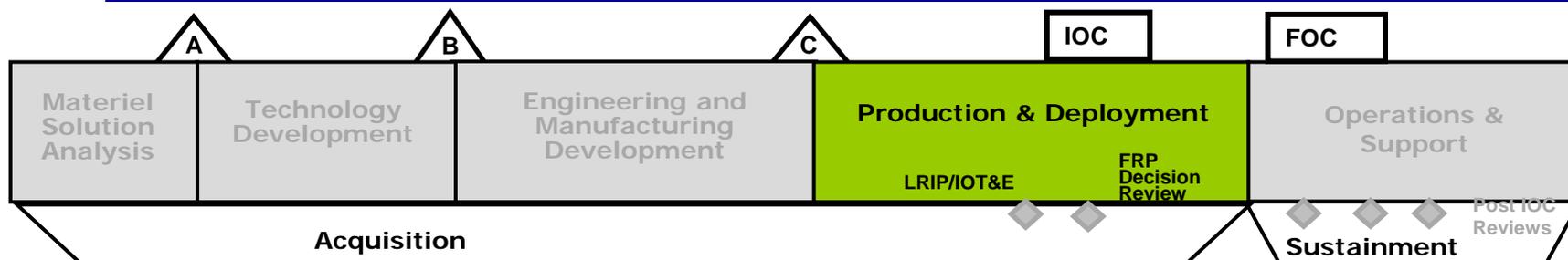


LCSP Focus

- Product Support Package (PSP) & supply chain
 - Detailed Product Support Element requirements
 - Detailed Product Support Package development & implementation
 - Performance verification methods
 - Fielding plans



LCSP Phase Emphasis: Production and Deployment Phase



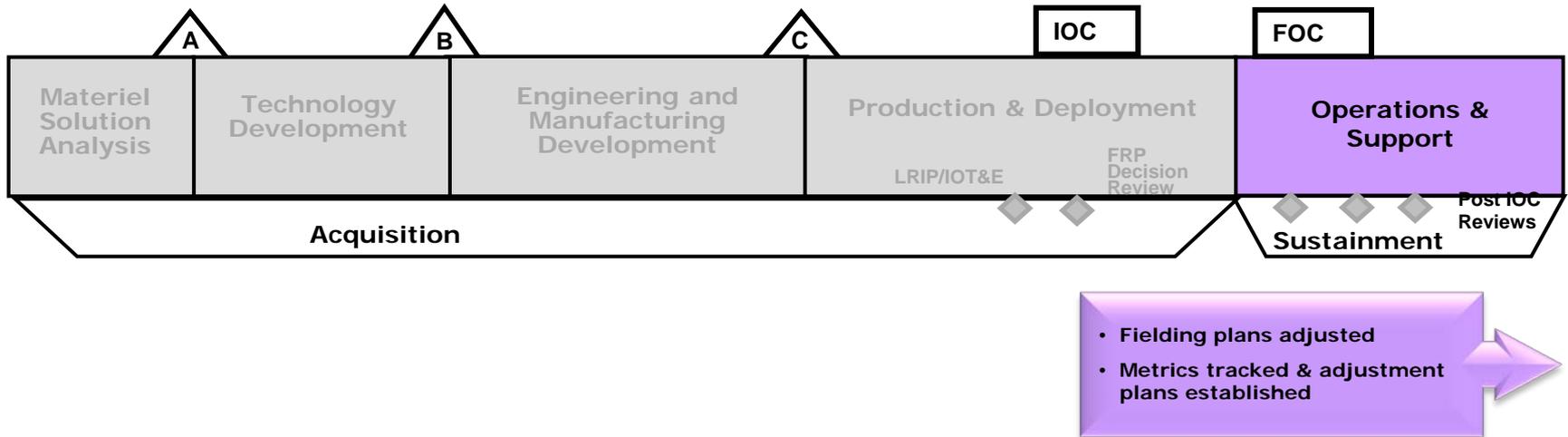
- Product Support Package elements refined
- Detailed site fielding plans refined
- Sustaining Engineering
- Logistics assessments

LCSP Focus

- Fielding plan details and adjustments
- Logistics assessments
 - How sustainment performance will be measured, managed, assessed and reported
- Analytical and management processes for :
 - Refining Product Support Package elements
 - Cost drivers and availability degraders



LCSP Phase Emphasis: Operations and Support Phase



LCSP Focus

- Sustaining Engineering processes for refining Product Support Package elements
- Logistics assessments on how the system and supply chain are performing
- Adjustments required for program or funding changes



Outline and Expectations: LCSP Table of Contents

1. **Introduction**
Purpose, scope, focus and objective
2. **Product Support Performance**
Metrics, their values and how they will be measured over time
3. **Product Support Strategy**
Strategy (maintenance & supply chain) and what drives it (design, ops, supply chain)
4. **Product Support Arrangements**
Contracting strategy (Details on Sustainment related contracts expanding on Acquisition Strategy)
5. **Product Support Package Status**
Results from Logistics Assessments, Program & Design reviews (open issues)
6. **Regulatory/Statutory Requirements that Influence Sustainment Performance**
How being implemented
7. **Integrated Schedule**
Sustainment related events (major plans, Product Support Elements & site activations)
8. **Funding**
Product Support Elements & spending plans
9. **Management**
Organizational structure & staffing levels and management approach
10. **Supportability Analysis**
How design features being implemented/status, PSE determined and the performance tracked
11. **Additional Sustainment Planning Factors**
Special topics related to sustainment

LCSP Annexes



LCSP Table of Contents: Introduction

1. Introduction

Purpose, scope, focus and objective

2. Product Support Performance

Metrics, their values and how they will be measured over time

- Scope
- Focus
- Objective
- Update process overview

6. Regulatory/Statutory Requirements that Influence Sustainment Performance

| Revision Number | Date | Change and Rationale | Approved By |
|-----------------|--------------|---|-----------------|
| 0.7 | April 2008 | Addressed results from CDR and changes in due to avionics reliability issues – see comments in xxx | APEO(L) |
| 0.8 | June 2008 | Updated Section 10.2 with results from approved PBAs with NAVICP | NAVAIR (AIR-00) |
| 0.9 | October 2008 | Addressed PS WIPT (including Service and OSD) comments – many changes – see Comment Resolution Matrix (CRM) | APEO(L) |
| Etc. | | | |

LCSP Annexes



LCSP Table of Contents: Product Support Performance and Strategy

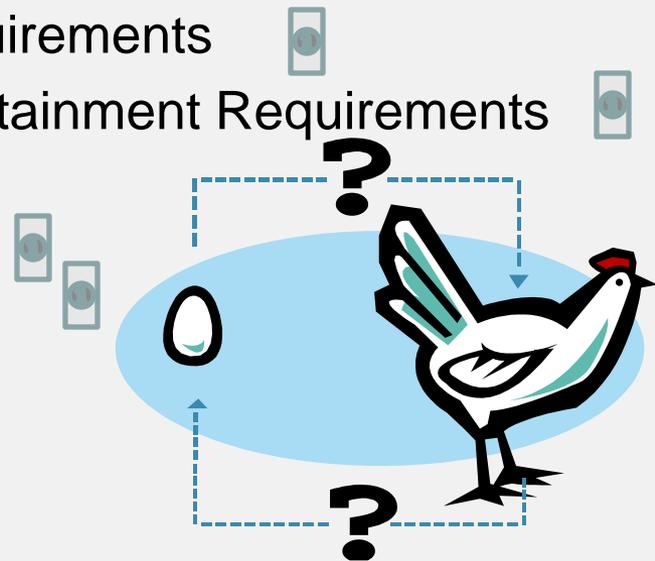
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- 3. **Product Support Strategy**
 - Strategy (maintenance & supply chain) and what drives it (design, ops, supply chain)

2 Product Support Performance

- 2.1 Sustainment Performance Requirements 
- 2.2 Testing and Demonstrating Sustainment Requirements 

3 Product Support Strategy

- 3.1 Strategy Considerations 
- 3.2 Sustainment Relationships 



11. Additional Sustainment Planning Factors

- o Special topics related to sustainment

LCSP Annexes



LCSP Table of Contents: Product Support Arrangements and Package Status

1. Introduction
 - Purpose, scope, focus and objective
2. Product Support Performance
 - Metrics, their values and how they will be measured over time
3. Product Support Strategy
 - Strategy (maintenance & supply chain) and what drives it (design, ops, supply chain)
4. **Product Support Arrangements**
Contracting strategy (Details on Sustainment related contracts expanding on Acquisition Strategy)
5. **Product Support Package Status**
Results from Logistics Assessments, Program & Design reviews (open issues)

4 Product Support Arrangements

4.1 Contracts



4.2 Performance Based Agreements



5 Product Support Package Status

5.1 Program Review Results



5.2 Logistics Assessment Results





LCSP Table of Contents: Regulatory/Statutory Requirements

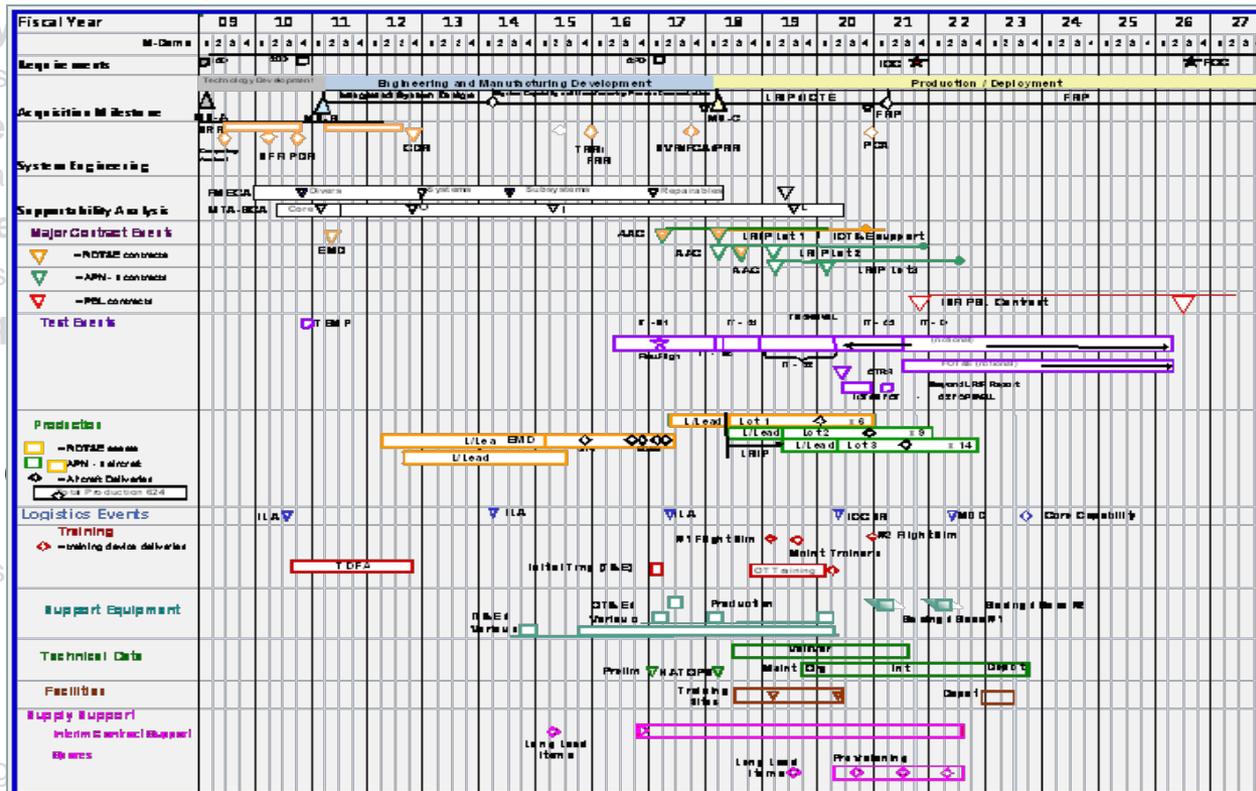
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 - Purpose, scope, focus and objective
2. **Product Support Performance**
 - Metrics, their values and how they will be measured over time
3. **Product Support Strategy**
 - Strategy (maintenance & supply chain) and what drives it (design, ops, supply chain)
4. **Product Support Arrangements**
 - Contracting strategy (Details on Sustainment related contracts expanding on Acquisition Strategy)
5. **Product Support Package Status**
 - Results from Logistics Assessments, Program & Design reviews (open issues)
6. **Regulatory/Statutory Requirements that Influence Sustainment Performance**
How being implemented

| Requirement | Documentation | OPR | Start / Implementation Date | CLIN | Review Cycle | Performance Metric |
|----------------------------|--|--------------------|-----------------------------|----------|---|-------------------------------------|
| Core Logistics Analysis | 10 USC 2464 | AMCOM | MS-B, Sept 2013 | | Milestone C; FRPDR | Availability & O&S Cost |
| Source of Repair Analysis | Public Law 111-23 | OPNAV/N4 | MS-C, Nov 2014 | | As required | |
| Public-Private Partnership | 10 USC 2474 | HQ AFMC/A4 | MS-B, Sep 2013 | | MS-C; Every 5 years after IOC | Availability KPP Reliability KSA |
| Corrosion | DODI 5000.67 (Feb 2010) | PSM/ Contractor | RFP, Sep 2011, | CLIN 008 | MS-B MS-C Every 5 years after IOC | Availability KPP |
| IUID | DODI 5000.02 (Dec 08) DODI 8320.04 (Jun 08) | PSM/ Contractor | RFP, SEP 2011 | CLIN 007 | MS-B MS-C FRPDR | |
| CBM + | DODI 4151.22 (Dec 07) | | RFP, SEP 2011 | | | Availability KPP |



LCSP Table of Contents: Integrated Schedule

1. Introduction
 - o Purpose, scope, focus and objective
2. Product Support Performance
 - o Metrics, their values and how they will be measured over time
3. Product Support Strategy
 - o Strategy (maintenance & support)
4. Product Support Arrangement
 - o Contracting strategy (Detailed)
5. Product Support Package
 - o Results from Logistics Assessment
6. Regulatory/Statutory Requirements
 - o How being implemented
7. **Integrated Schedule**
 - o Sustainment related events
8. Funding
 - o Product Support Elements
9. Management
 - o Organizational structure & processes
10. Supportability Analysis
 - o How design features being implemented
11. Additional Sustainment Plans
 - o Special topics related to sustainment



LCSP Annexes



LCSP Table of Contents: Management

9 Management

9.1 Organization

- 9.1.1 Government Program Office Organization
- 9.1.2 Program Office Product Support Staffing Levels
- 9.1.3 Contractor(s) Program Office Organization
- 9.1.4 Product Support Team Organization

9.2 Management Approach

- 9.2.1 Product Support Manager Roles and Responsibilities
- 9.2.2 Sustainment Risk Management

9. Management

Organizational structure & staffing levels and management approach

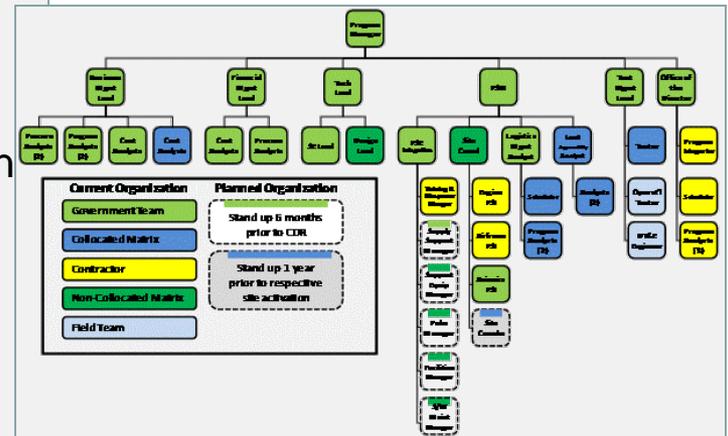
10. Supportability Analysis

- o How design features being implemented/status, PSE determined the performance tracked

11. Additional Sustainment Planning Factors

- o Special topics related to sustainment

LCSP Annexes



Sustainment Performance





LCSP Table of Contents: Supportability Analysis

1. Introduction

Purpose, scope, focus and objective

10 Supportability Analysis

10.1 Design Interface

10.1.1 Design Analysis

10.1.2 Technical Reviews

10.2 Product Support Element Determination

10.3 Sustaining Engineering

- How being implemented

7. Integrated Schedule

- Sustainment related events (major plans, Product Support

8. Funding

- Product Support Elements & spending plans

9. Management

- Organizational structure & staffing levels and management

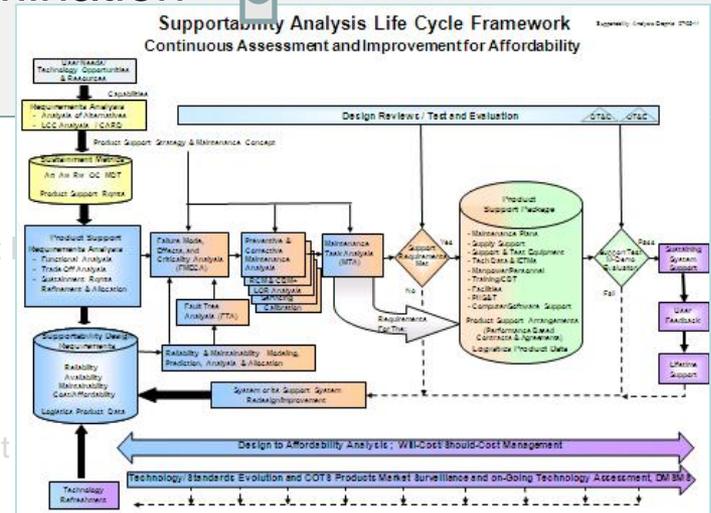
10. Supportability Analysis

How design features being implemented/status, PSE determined the performance tracked

11. Additional Sustainment Planning Factors

- Special topics related to sustainment

LCSP Annexes





LCSP Table of Contents: Additional Sustainment Planning Factors

1. Introduction

- o Purpose, scope, focus and objective

11 Additional Sustainment Planning Factors

Additional sustainment issues or risks cutting across functional lines not included elsewhere in the LCSP. For example:

- Critical Program Information elements provided in the Program Protection Plan (maintaining anti-tamper on component or sub-components)
- Materials with environmental impacts addressed in the PESHE (e.g. require special handling, facilities, training)
- System integration with or onto another platform (e.g. vehicles onto transport ships/RoRos, air transports, etc.)
- Integration of C4I with the system
- Precious metals requiring recovery, items that are classified, export controlled, pilferable, or require special handling.

10. Supportability Analysis

- o How design features being implemented/status, PSE determined the performance tracked

11. Additional Sustainment Planning Factors

Special topics related to sustainment

LCSP Annexes



LCSP Table of Contents

1. Introduction

- o Purpose, scope, focus and objective

LCSP Annexes

Specific annexes will vary based on life-cycle phase

- Product Support Business Case Analysis
- Logistics Assessment and Corrective Action Plan
- Service Specific Requirements
- Preservation and Storage of Unique Tooling
- Core Logistics Analysis
- Source of Repair Analysis
- System Disposal Plan

Services can require additional information to meet their needs

10. Supportability Analysis

- o How design features being implemented/status, PSE determined the performance tracked

11. Additional Sustainment Planning Factors

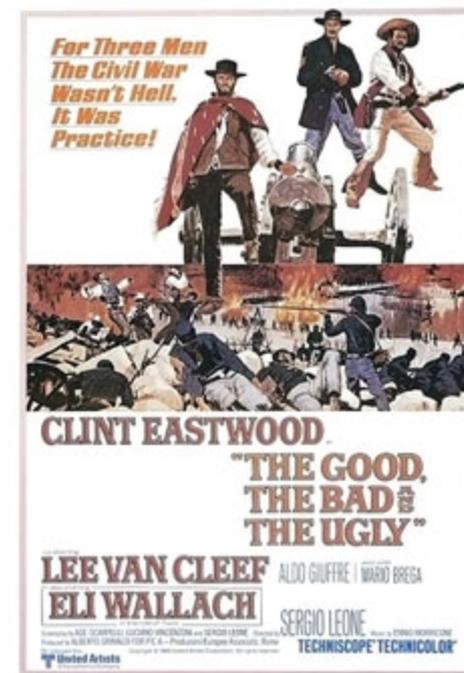
- o Special topics related to sustainment

LCSP Annexes



LCSP Input to RFPs (Key Communication Tool)

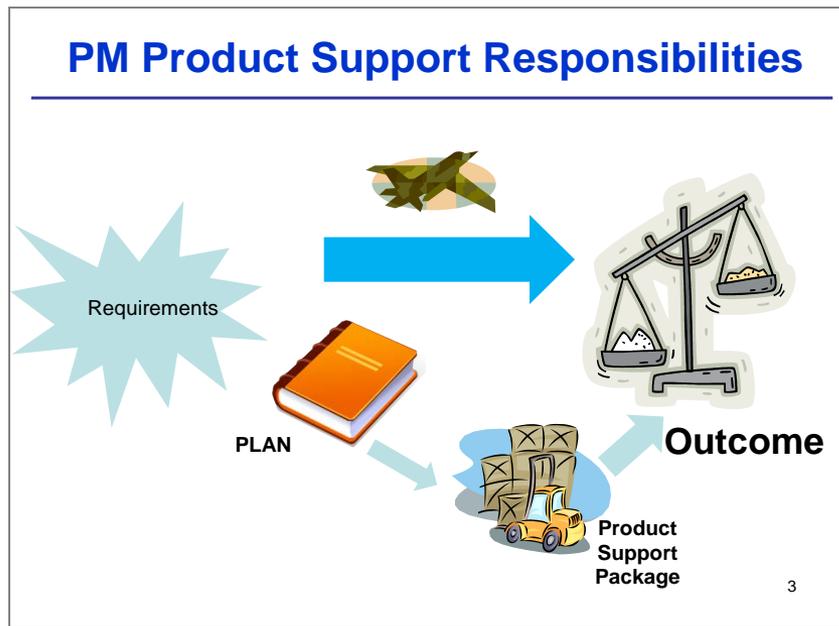
- ❑ **Program Manager’s Plan, not the Contractors**
 - Team means both involved
 - Content varies by life-cycle phase
- ❑ **How LCSP should be used as an input to RFPs**
 - Government Convey the:
 - Baseline Product Support Strategy
 - Sustainment Performance Requirements
 - Government Organization
 - Regulatory/Statutory Requirements Including Core
 - Broad Schedule
 - Contractor Proposal Convey
 - Approach to Accomplish Contract Requirements
 - “Design to” Requirements including Verification Method
 - Alternative Strategy – “Affordable” Requirements
- ❑ **How LCSP should not be used in RFPs**
 - Fill in the Blanks





Key Enterprise Players

- **Combat and Operational Commands**
 - Operational constraints (boundaries) and what willing to pay to sustain
- **Program and Acquisition Communities**
 - Contract, Design, & Milestone Reviews
- **Financial Community**
 - Budgets tied to outcomes
- **Sustainment Community**
 - What they can expect & what the program can expect





LCSP Must Address

The outcome-based product support strategy

- Analytical tools in determining an affordable product support strategy
- Use of competition to meet the best-value long-term outcomes for the Warfighter *and* Taxpayer
- Enterprise opportunities across programs and Services

The sustainment related requirements

The cost, schedule and management approach

- The product support arrangements

The assessment approach

- Product support strategy reviews
- Adjusting resource allocations, performance requirements and Warfighter needs



Making it affordable



Keeping it affordable

Key element in implementing “should costs”



Take Aways

- ❑ The LCSP is used to succinctly convey the plan for formulating, implementing, and executing the sustainment strategy.
- ❑ A Outline is available to help programs generate their LCSPs. It provides:
 - Structure
 - Mandated information
 - Examples
 - Data -- notional
- ❑ The LCSP Outline is a living document - evolving based on lessons learned.

Use the Web Site

<https://acc.dau.mil/lcsp-outline>



Questions?