

U.S. Army Future Combat Systems Brigade Centric Support (BCS)

DoD Maintenance Symposium

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Connect – Detect – Protect – Project...FCS





We must look at Support for the FCS (BCT) Holistically

Challenges:

- Management responsibility resides with multiple Activities
- Requires a Performance Look across the Brigade
- Requires adapting Commodity Based Structure to support Unit Performance
- Must remain Transparent to the Unit
- Requires accommodation of mixes of type of support: PBL, CLS & Organic

Extracted from the 14 May 03 MS B DAB, ASR

Supportability Strategy

Insertion of the FCS into undeveloped theaters, and follow-on operations across the spectrum of modern combat, requires the development of logistics concepts to enable support in a non-contiguous or split-based environment. The PM, FCS and the LSI, in conjunction with AMC and other government stakeholders, is developing a Total Life Cycle Systems Management (TLCSM) strategy to field FCS equipped UAs using the USF construct. In addition, the Army envisions upgrading the Army's Battle Labs to enable them to become a reach back capability to support Units of Action in theater and in combat, as well as to work through the network and embedded training systems to conduct experiments on new increments of FCS capabilities with operational units in a distributive fashion

Extracted from the 18 Nov 04 ASR,

5.0 Supportability Strategy

The UA supportability strategy (SS) includes integrated strategies for all systems within the UA and includes: all ILS requirements on the ASA(ALT) ILA Checklist, RAM-T, Transportability/Deployability, Product Support Management Plan, SoS Supportability Assessments, Supportability Analysis and Logistics Support Analysis, Development of Logistics Software Products, Logistics Data Repository, Materiel Fielding Plan, Source of Repair Analysis, System Engineering for Logistics Requirements and Development of SoS and system specifications for supportability design constraints, Pitstop Engineering, Logistics Aspects of the UA Architecture, Trade Studies and Logistics Impacts of CAIV decisions

Extracted from the 18 Nov 04 DAB, Supportability Strategy Document

1.1.1 Purpose

The Unit of Action (UA) Supportability Strategy defines the planning, programming, and execution of the sustainment and support to meet operational support performance requirements and sustain the UA in the most cost effective manner over the total life cycle of the FCS SoS and the current force equipment. This UA supportability strategy facilitates development and integration of these key integrated logistics support elements into the FCS SoS variants and complementary equipment assigned to the UA: maintenance planning; manpower and personnel; supply support; equipment support; training and training support; technical data; computer resources support; packaging, handling, storage and transportation; facilities; and design interface.

Charles A. Cartwright
Army Acquisition Executive

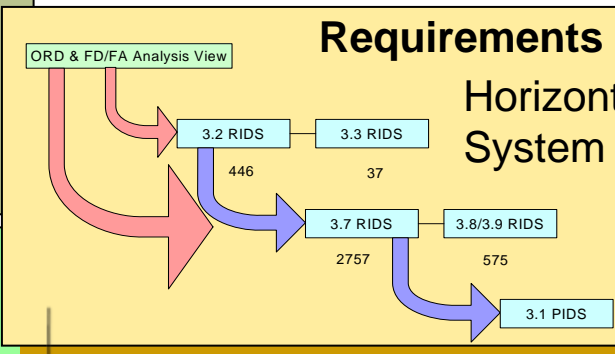


Enabling Supportability in FCS Platforms

FCS KPP #5 Sustainability and Reliability

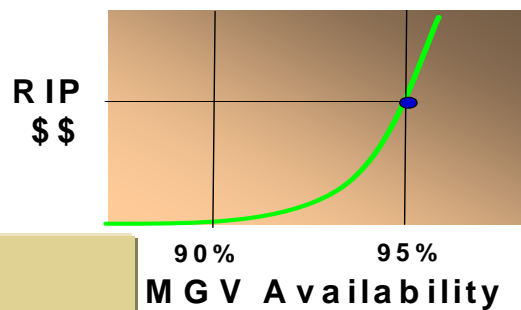
- Objectives:**
- Increase Operational Availability
 - Reduce Logistics Footprint
 - Reduce Lifecycle Cost

- Commonality**
- >70% of components among platforms – on track
 - Metric Standard across family of systems
 - 10 Common Tools per FCS platform / 20 in the FCS(BCT)



Horizontal integration of logistics into System of System Architecture and Specifications – 3815 of 10,739 total requirements in the SoS Spec

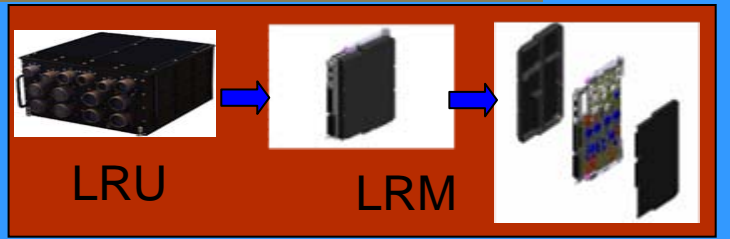
Reliability Improvement Program



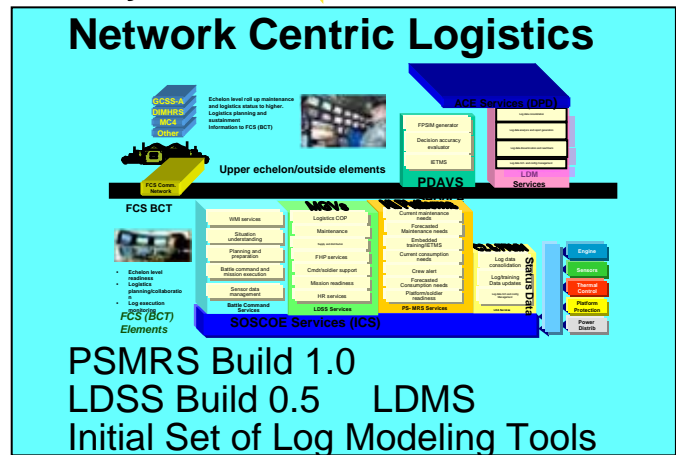
- \$208M (FY05-12) Additional
- \$50M Incentive Fee
- Reported through EVMS
- Quarterly reviews

- Maintenance**
- 80% Crew Maintenance
 - 30 Min Time to Repair

- Embedded Diag/Prog
- 2 Level Maintenance



Line Replaceable Module vs Line Replaceable Units





Achieving the Vision

The BCS concept is designed to make necessary adaptations to current business practices to sustain an expeditionary Army at war

Brigade Centric Sustainment Definition

Performance-based sustainment concept focused on brigade level outcomes (unit/system readiness) using PBL strategies for all systems in a Brigade Combat Team, capitalizing on integrated business processes to meet requirements at an optimal economic cost.

Brigade Centric Sustainment Vision

- One business process for all brigade class IX support requirements
- Manage to negotiated metrics (Ao, response time, etc.)
- Deployable
- ARFORGEN compatible/compliant
- Leverage logistics chains, public/private partnerships and inherent governmental core competencies to achieve higher readiness

Potential Benefits

- Optimized system availability by brigade
- Majority of the maintenance burden moved from brigade commanders to support provider
- Support costs tied to force projection; aligns support with the ARFORGEN cycle
- Optimized logistics footprint
- Proactive versus reactive approach to funding management
- Single support integrator accountable for the maintenance management of the BCT



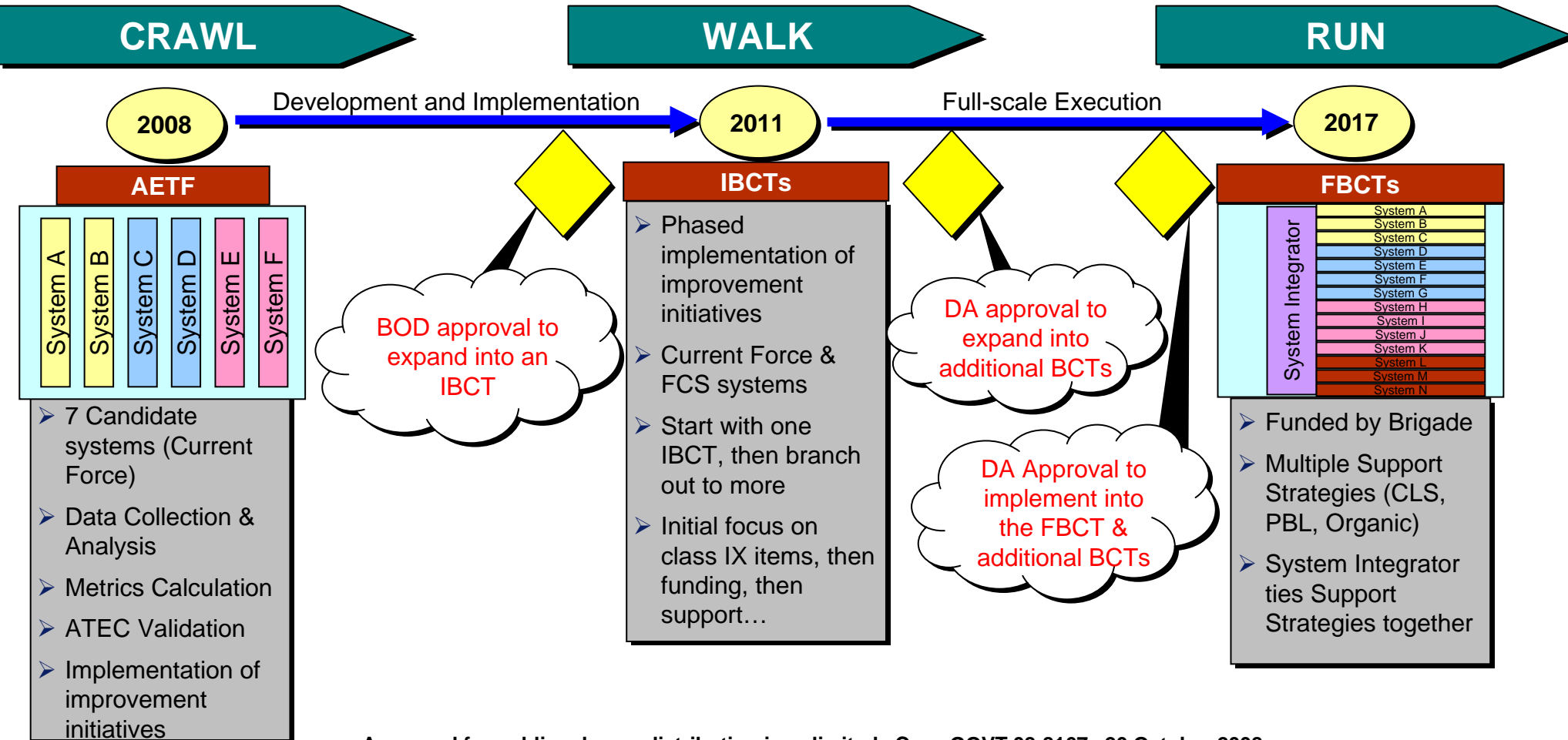
Traditional Support vs. PBL Support

Traditional Support Method	PBL Support Method
Functionally focused	Customer focused
Transaction-based	Performance-based
Multiple handoffs	Single-point accountability
Varying service levels	Consistent, reliable service
Commercial and government roles	Partnerships
Stovepiped	Integrated
Reactive	Pro-active
Capital Fund optimization	Mission and capability optimization



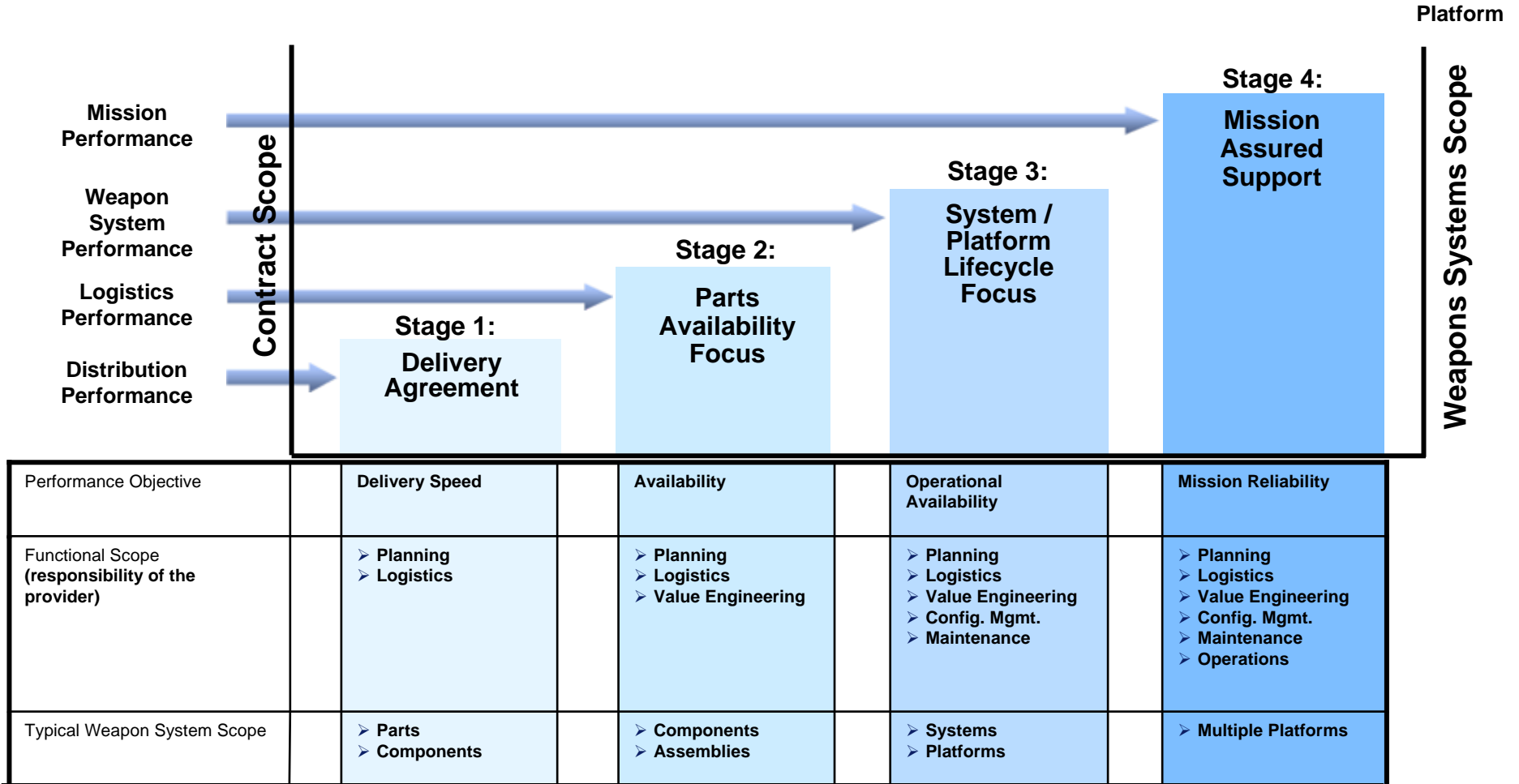
Crawl, Walk, Run

A progressive Crawl, Walk, Run approach will drive the execution of BCS starting in 2008 to FBCT fielding in 2017





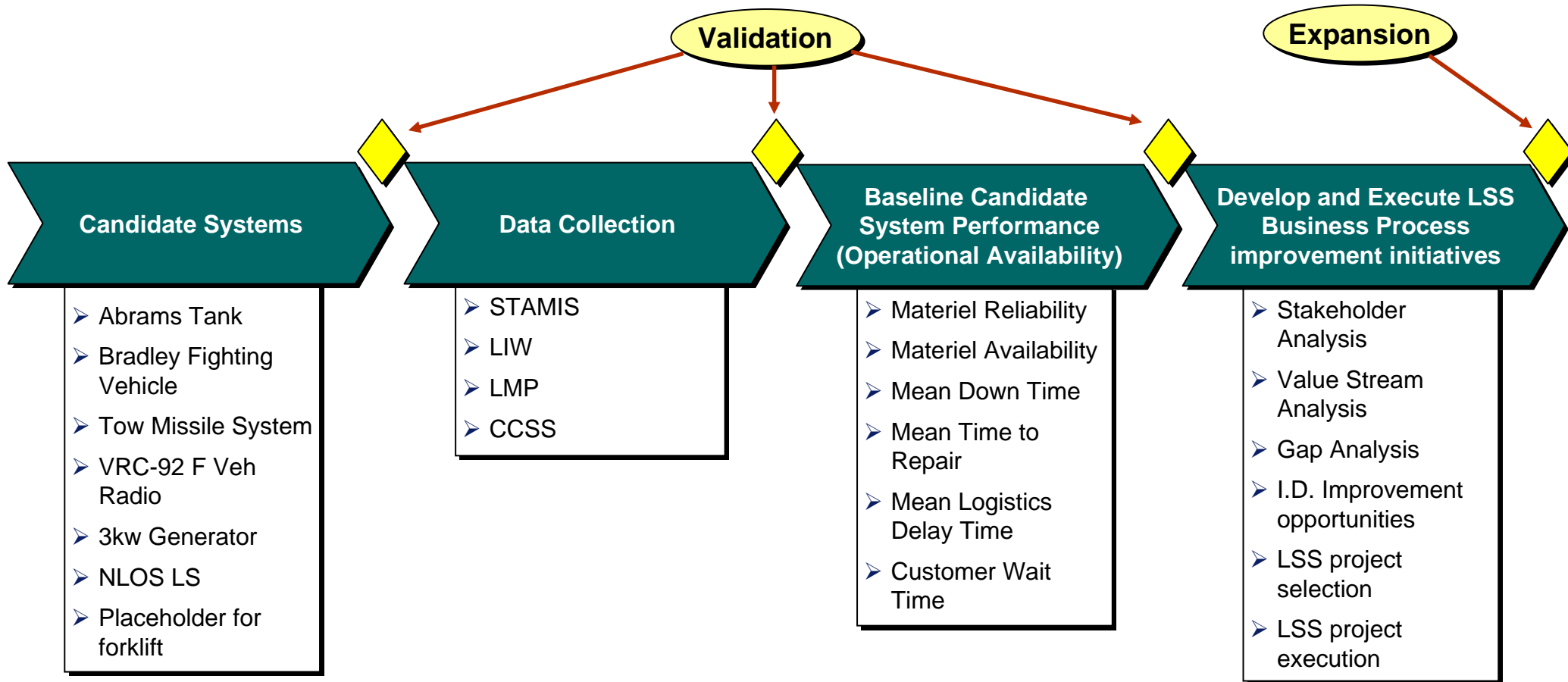
OSD PBL Maturity Framework





Data Collection & Analysis

The “Walk” phase focuses on creating a performance baseline for selected candidate systems through disciplined data collection and a Lean Six Sigma (LSS) inspired analytical approach...



...that will be transparent within the AETF operating environment



Path Forward

- Continue to exert logistics influence on design
- Evolve the support concept through the Spin Outs
- Refine the PBL support concept for the main FCS program
- Conduct the Business Case Analysis
- Provide most economical support