

Naval Postgraduate School

Acquisition Research Symposium: Creating Synergy for Informed Change

14-15 May 08

Advances in Acquisition Project Management

CAPABILITIES FOCUSED ACQUISITION PROCESS

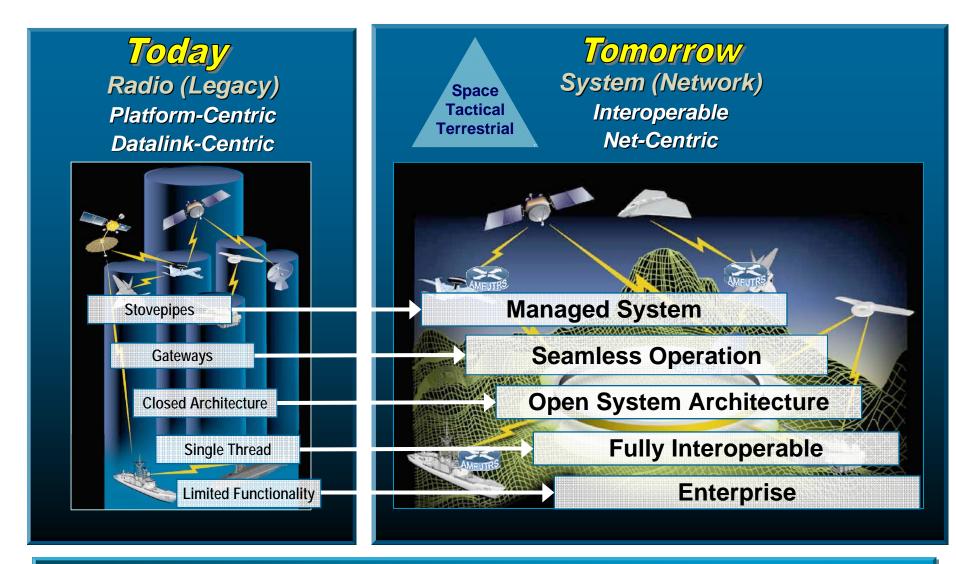
-Continued-



COL Ray Jones Project Manager, Modular Brigade Enhancements Program Executive Office, Ground Combat Systems US Army COL Ray Jones Program Manager, Airborne, Maritime, Fixed Site (AMF) Joint Program Executive Office, Joint Tactical Radio System OSD



Acquisition Objective

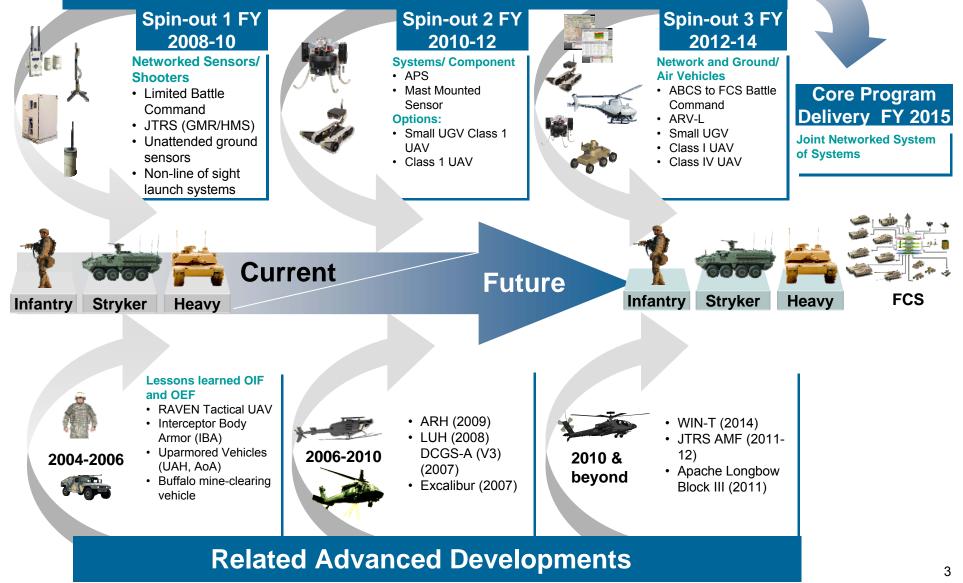


Better Knowledge .. Better Planning .. Better Execution Better Results



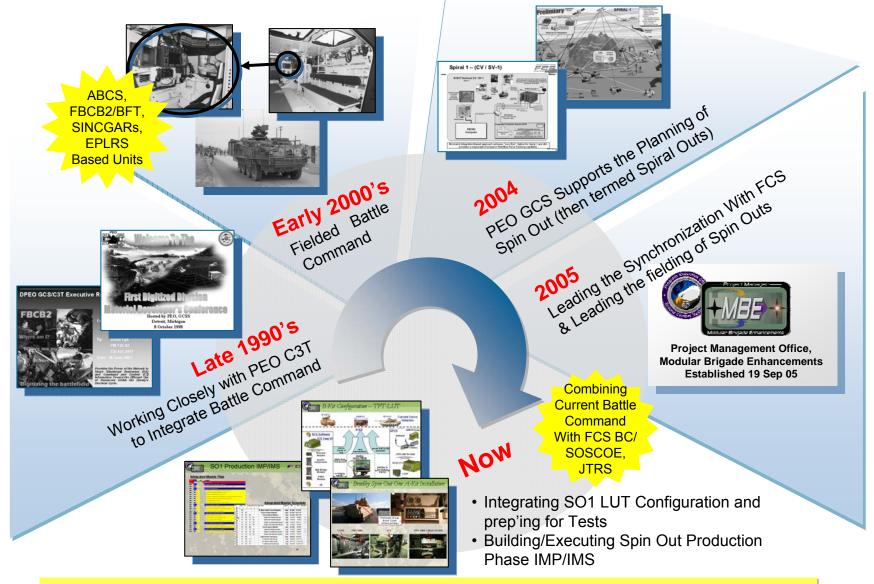
Current To Future Force through Spin-Outs

FCS – System Development and Demonstration





Battle Cmd/Vehicle Integration "A Teaming Effort Success Story"



Integrating Battle Command Systems in a manner that maximizes the use of BC information and minimizes impact to vehicle and crew



Supporting the Army Vision Require Synchronization Modernization WHY?

WHAT WORKED BEFORE





- Vehicle infrastructure has remained relatively constant since the last development/improvement program
- Requirements are evolving / expanding and requires integration of new capability
 - New/Updated CDDs/CPDs under development
 - Integrating new capability adding to already strained power, space, and weight claims
- Integrating more in current vehicle configuration impacts crew and vehicle capability



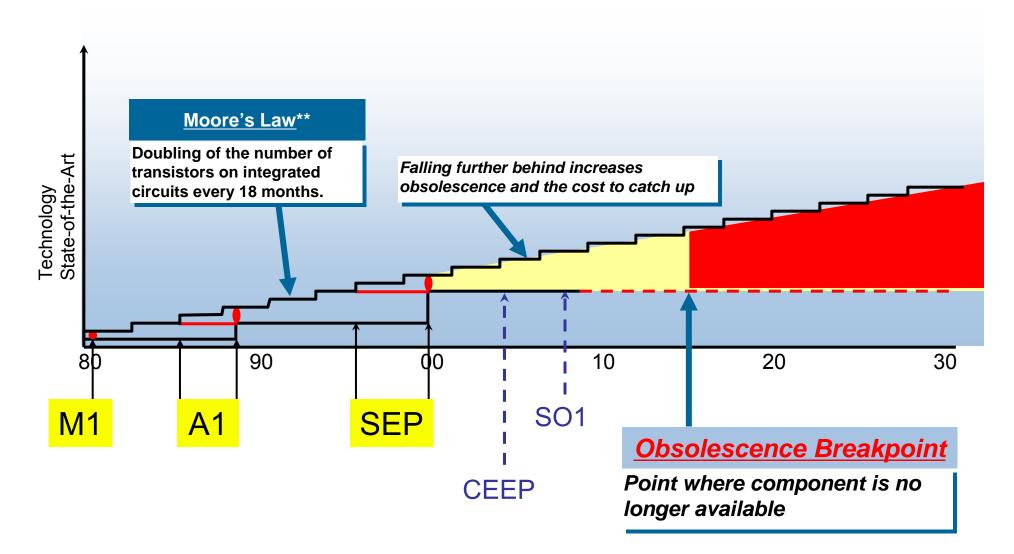


...DOESN'T NECESSARILY WORK NOW!

We are at the degradation point



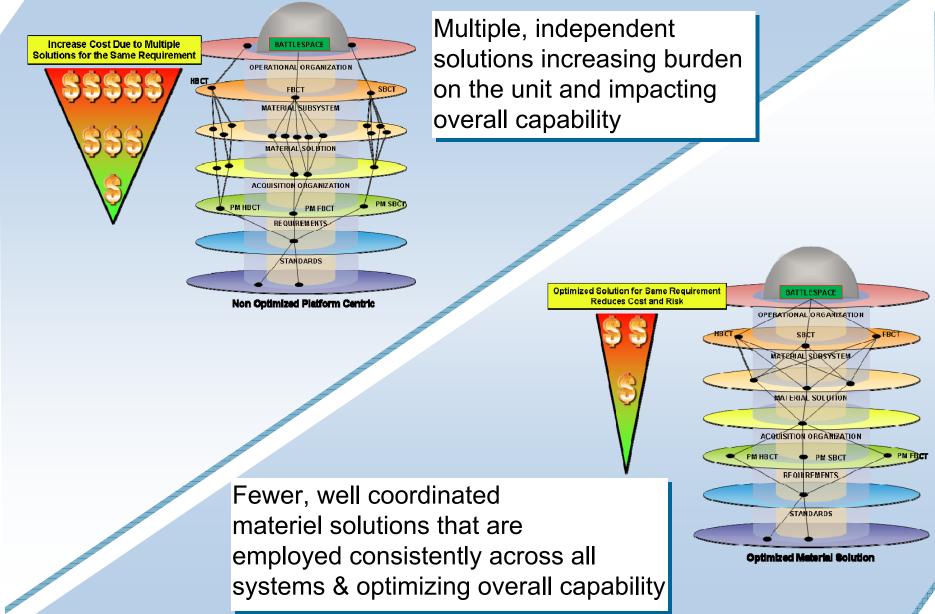
Obsolescence vs. Technology Advancement



** Computer industry technology "roadmaps" predict (as of 2001) that Moore's Law will continue for several chip generations.

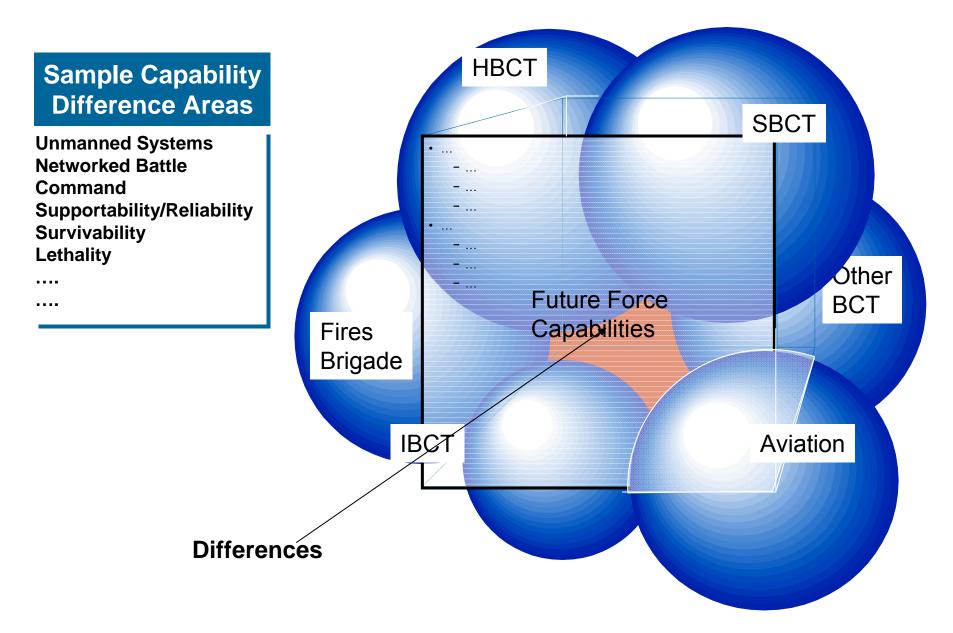


Capabilities Management Challenge



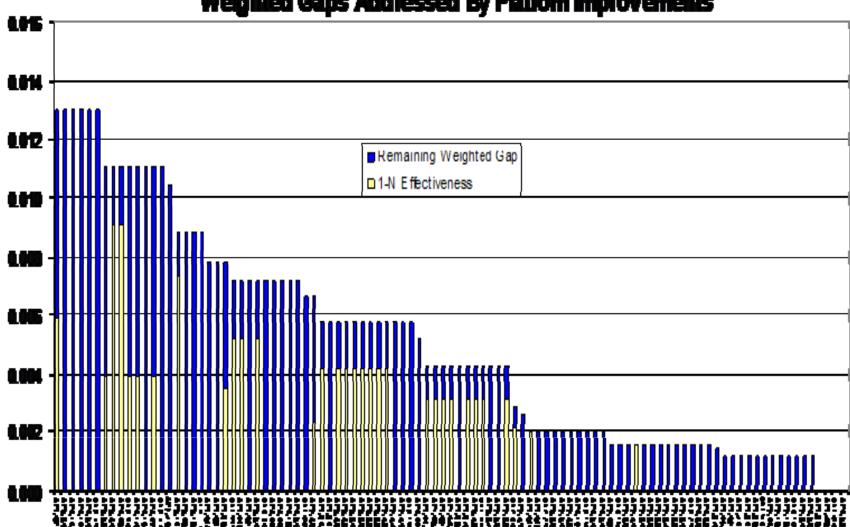


CF Needs to meet Future Force Required Capabilities





Notional 1-n Gap Analysis



Weighted Gaps Addressed By Platforn Improvements



Linking SoSAT & CASTFOREM Conducting Evaluations of Alternatives to Identify Capability Gaps

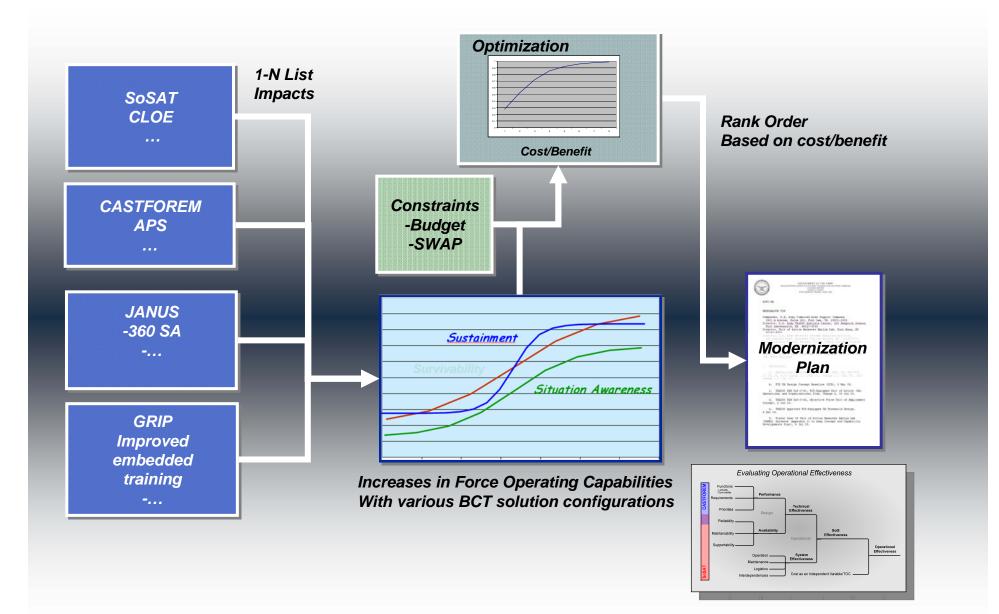


SoSAT

Sustainment/Logistics Reliability/Availability System of Systems Metrics Brigade Level Scalability Detailed Platform Modeling Optimization

- CASTFOREM provides SoSAT parameters associated with warfighting technology effectiveness
 - e.g. probability of platform/subsystem mission survival, probability of mine detection
- SoSAT provides CASTFOREM parameters associated with platform reliability and sustainment
 - e.g. downtime due to (lack of) reliability failures

Integrated Analyses to Maximize Operational Effectiveness



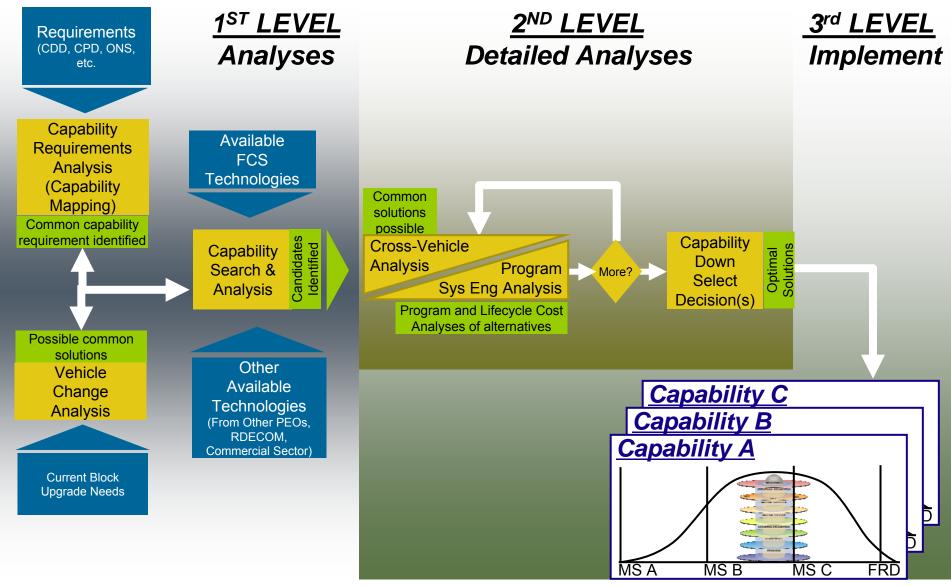


PEO GCS SE Contracted Effort

SE Contractor brought in ٠ to support execution of Inform Process efforts like this Requirements PEO SE Inform PEO PEO Alignment/Prioritization Management Focus: CNA, CDDs, CPDs, etc ٠ Supporting the execution of the PEO & Capability Analysis & Selection **PMs** common capability analysis PM HBCT PM SBCT JPO LW155 PM MBE PM MRAP JP0 RS Systems Systems Systems Systems Systems Systems **PMs** Inform PMs Engineering, Engineering Engineering Engineering Engineering Engineering Developing for the PMs and PEO the SE Execution Execution Execution Execution Execution Execution processes Assemble and Manage Benefit: the PEO ٠ FCS Systems Engineering They will get real-life experience with this effort and be able to View PM MBE develop better processes, determine tools and training needs



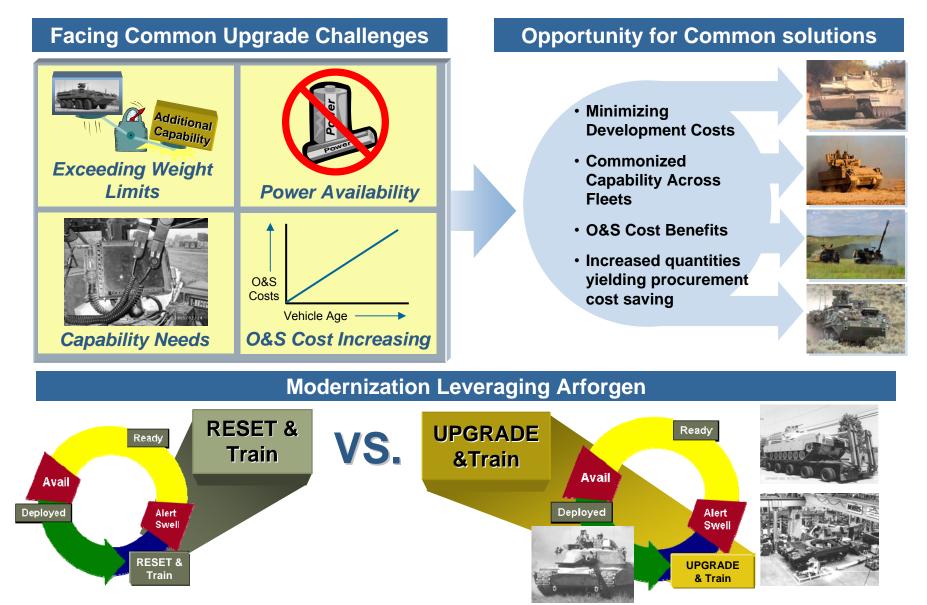
Ground Vehicle Analyses Process



Outputs



PEO GCS Modernization Tenets

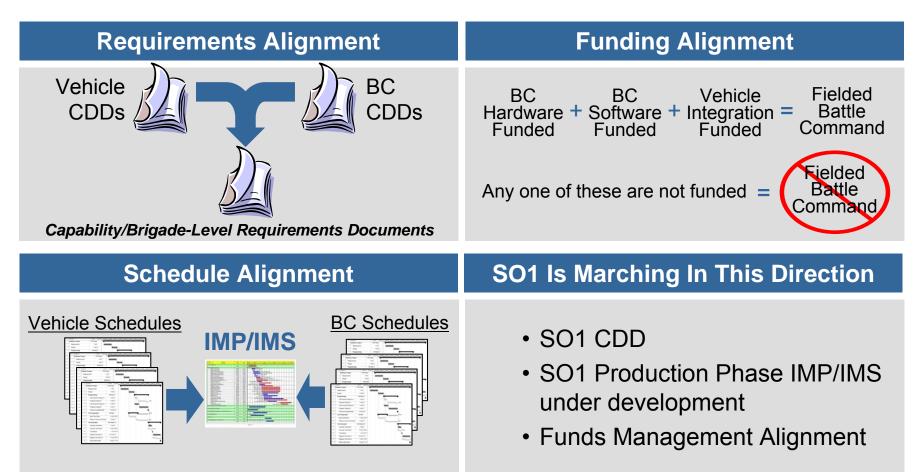




SUMMARY

Making It All Happen: "A Broad Ground Vehicle View"

Example: Programs Must Be Aligned To Enable Battle Command



Battle Command Development and Battle Command Vehicle Integration: <u>Synchronization is the Key to Success</u>