

NPS-LM-05-029



EXCERPT FROM THE PROCEEDINGS

OF THE
SECOND ANNUAL ACQUISITION
RESEARCH SYMPOSIUM

**DEVELOPING SYSTEMS IN A CHANGING ENVIRONMENT: AN
ARMY EXAMPLE**

Published: 1 May 2005

by

William Lucyshyn

**2nd Annual Acquisition Research Symposium
of the Naval Postgraduate School:**

**Acquisition Research:
The Foundation for Innovation**

May 18-19, 2005

Approved for public release, distribution unlimited.

Prepared for: Naval Postgraduate School, Monterey, California 93943



ACQUISITION RESEARCH PROGRAM
GRADUATE SCHOOL OF BUSINESS & PUBLIC POLICY
NAVAL POSTGRADUATE SCHOOL

The research presented at the symposium was supported by the Acquisition Chair of the Graduate School of Business & Public Policy at the Naval Postgraduate School.

To request Defense Acquisition Research or to become a research sponsor, please contact:

NPS Acquisition Research Program
Attn: James B. Greene, RADM, USN, (Ret)
Acquisition Chair
Graduate School of Business and Public Policy
Naval Postgraduate School
555 Dyer Road, Room 332
Monterey, CA 93943-5103
Tel: (831) 656-2092
Fax: (831) 656-2253
E-mail: jbgreene@nps.edu

Copies of the Acquisition Sponsored Research Reports may be printed from our website www.acquisitionresearch.org

Conference Website:
www.researchsymposium.org



ACQUISITION RESEARCH PROGRAM
GRADUATE SCHOOL OF BUSINESS & PUBLIC POLICY
NAVAL POSTGRADUATE SCHOOL

Proceedings of the Annual Acquisition Research Program

The following article is taken as an excerpt from the proceedings of the annual Acquisition Research Program. This annual event showcases the research projects funded through the Acquisition Research Program at the Graduate School of Business and Public Policy at the Naval Postgraduate School. Featuring keynote speakers, plenary panels, multiple panel sessions, a student research poster show and social events, the Annual Acquisition Research Symposium offers a candid environment where high-ranking Department of Defense (DoD) officials, industry officials, accomplished faculty and military students are encouraged to collaborate on finding applicable solutions to the challenges facing acquisition policies and processes within the DoD today. By jointly and publicly questioning the norms of industry and academia, the resulting research benefits from myriad perspectives and collaborations which can identify better solutions and practices in acquisition, contract, financial, logistics and program management.

For further information regarding the Acquisition Research Program, electronic copies of additional research, or to learn more about becoming a sponsor, please visit our program website at:

www.acquisitionresearch.org

For further information on or to register for the next Acquisition Research Symposium during the third week of May, please visit our conference website at:

www.researchsymposium.org



THIS PAGE INTENTIONALLY LEFT BLANK



Developing Systems in a Changing Environment: An Army Example

Presenter: William Lucyshyn, is the Director of Research and a Senior Research Scholar at the Center for Public Policy and Private Enterprise in the School of Public Affairs at the University of Maryland. Previously, Mr. Lucyshyn served as a program manager and the principal technical advisor to the Director, Defense Advanced Research Projects Agency (DARPA), on the identification, selection, research, development, and prototype production of advanced technology projects. Prior to this appointment, Mr. Lucyshyn completed a 25-year career in the US Air Force serving in various operations, staff, and acquisition positions. Mr. Lucyshyn received his Bachelor Degree in Engineering Science from the City University of New York and his Master's Degree in Nuclear Engineering from the Air Force Institute of Technology.

Abstract

The first Gulf War revealed fundamental weaknesses in the Army's vast and complex logistics network. These flaws led to a lack of timeliness and inefficiency in delivering supplies, repair parts, and equipment to the units that needed them. Recognizing the need to adopt the best practices of private-sector supply-chain management, the Department of Defense (DoD) and Army leaders began strategic planning efforts directed toward logistics reform. Principal targets for reform were the Army's 30-year-old logistics information-management systems.

In August of 1997, the Army's Communications and Electronics Command (CECOM) at Fort Monmouth, NJ—the organization responsible for these antiquated systems—received direction, “to explore alternatives to modernize the wholesale logistics processes and associated information technology.” During the following two years, a dedicated LMP team accomplished detailed analysis, planning, and coordination culminating in the award of a performance-based contract that outsourced Army logistics functions to a private firm: Computer Sciences Corporation (CSC).

The management team has faced many significant management challenges that include: intense Congressional scrutiny, strong opposition from the government employee union, the necessity of working with many different stakeholders, technical challenges, and changing requirements. LMP provides an excellent case for exploring the various issues involved with public-sector strategic-planning efforts in general, and with outsourcing and performance-based contracting in particular.



THIS PAGE INTENTIONALLY LEFT BLANK



2003 - 2006 Sponsored Acquisition Research Topics

Acquisition Management

- Software Requirements for OA
- Managing Services Supply Chain
- Acquiring Combat Capability via Public-Private Partnerships (PPPs)
- Knowledge Value Added (KVA) + Real Options (RO) Applied to Shipyard Planning Processes
- Portfolio Optimization via KVA + RO
- MOSA Contracting Implications
- Strategy for Defense Acquisition Research
- Spiral Development
- BCA: Contractor vs. Organic Growth

Contract Management

- USAF IT Commodity Council
- Contractors in 21st Century Combat Zone
- Joint Contingency Contracting
- Navy Contract Writing Guide
- Commodity Sourcing Strategies
- Past Performance in Source Selection
- USMC Contingency Contracting
- Transforming DoD Contract Closeout
- Model for Optimizing Contingency Contracting Planning and Execution

Financial Management

- PPPs and Government Financing
- Energy Saving Contracts/DoD Mobile Assets
- Capital Budgeting for DoD
- Financing DoD Budget via PPPs
- ROI of Information Warfare Systems
- Acquisitions via leasing: MPS case
- Special Termination Liability in MDAPs

Logistics Management

- R-TOC Aegis Microwave Power Tubes



- Privatization-NOSL/NAWCI
- Army LOG MOD
- PBL (4)
- Contractors Supporting Military Operations
- RFID (4)
- Strategic Sourcing
- ASDS Product Support Analysis
- Analysis of LAV Depot Maintenance
- Diffusion/Variability on Vendor Performance Evaluation
- Optimizing CIWS Life Cycle Support (LCS)

Program Management

- Building Collaborative Capacity
- Knowledge, Responsibilities and Decision Rights in MDAPs
- KVA Applied to Aegis and SSDS
- Business Process Reengineering (BPR) for LCS Mission Module Acquisition
- Terminating Your Own Program
- Collaborative IT Tools Leveraging Competence

A complete listing and electronic copies of published research within the Acquisition Research Program are available on our website: www.acquisitionresearch.org





ACQUISITION RESEARCH PROGRAM
GRADUATE SCHOOL OF BUSINESS & PUBLIC POLICY
NAVAL POSTGRADUATE SCHOOL
555 DYER ROAD, INGERSOLL HALL
MONTEREY, CALIFORNIA 93943

www.acquisitionresearch.org