

**MARINE CORPS SYSTEMS COMMAND**

**EQUIPPING THE WARFIGHTER TO WIN**

**United States Marine Corps  
Medical Equipment & Supplies (Class VIII)  
Enterprise Management Initiative**

**Concept Pilot Industry Event**

**24-25 May 2011 - Camp Lejeune, NC**

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# Welcome

- **Purpose**
  - Provide Industry additional information so that the overall effort is clearly understood
  - Receive information from industry to maximize reliance on commercial marketplace capabilities and business practices

- **Method**
  - Briefing
  - Tour of 2d Medical Logistics Company
  - Individual Sessions for those who pre-registered

- **End State:**
  - Industry departs with a clear understanding of the Concept Pilot effort and its supporting timeline
  - Government has better understanding of how to shape its Concept Pilot acquisition

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## **Agenda**

- **0800-1100: Paradise Point Officers' Club**
  - Welcome
  - USMC Medical Equipment & Supplies (Class VIII) Enterprise Management Initiative Overview
  - Class VIII "101"
  - Class VIII Enterprise Management Concept of Operations
  - Concept Pilot Approach
  - Wrap-up
  
- **1330-1600: 2d Medical Logistics Company Tour**



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# PROJECT OVERVIEW

Mr. Scott Adams

Program Manager, Combat Support Equipment  
Marine Corps Systems Command

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## **Purpose**

- **Provide Class VIII Enterprise Management Vision**
  - Where we are now
  - Where we are going
- **Preparing for executing the Concept Pilot**
  - Refining the strategy and supporting
  - Developing the Concept of Operations
  - Exploring possibilities
  - Collecting and analyzing data

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## **Problem Statement**

- **Marine Corps Class VIII challenges in garrison**
  - Low operational readiness rates (~55%) across the Operating Forces - current inventory management process has led to unbalanced inventory, unnecessary purchases, and continued use of legacy/obsolete items
  - No management tool to assess AMAL/ADAL block readiness
  - Poor equipment accountability and inventory management
  - Lack of sufficient warehouse space to house increased AAO
  - Long delays in modernizing AMAL/ADAL blocks
  - Nearly 25% of USMC Class VIII inventory value (\$260.4M) expires annually (~\$60M)
- **Planned changes in Marine Corps organization and decreases in funding require more effective use of personnel and resources**
- **Maintaining status quo for Class VIII in garrison will not support the warfighter in the future**

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# Maturity Model Summary

Criteria	Current State	Gap between Current State and Target State				Target State
		Design	Developing	Performing	Leveling	
<b>Initial Issue</b> <ul style="list-style-type: none"> <li>Procurement plans built on a 4 year review cycle.</li> <li>Limited knowledge and use of DMLSS to make buys.</li> </ul>					<ul style="list-style-type: none"> <li>Reduce cycle time for modernization to remove opportunities for obsolete purchases to be executed.</li> <li>Gain integration with Marine Corps procurement process to avoid workarounds</li> </ul>	
<b>Sustainment (Assemblage Management)</b> <ul style="list-style-type: none"> <li>AAO assortment mandated by policy.</li> <li>Expiry and loss common. No consistent deployment of shelf-life management practices.</li> </ul>					<ul style="list-style-type: none"> <li>Assign assortment based on actual consumption, contingency and training plan/forecast.</li> <li>Establish standard processes to minimize expiry loss.</li> </ul>	
<b>Deployment (AMALLine Procurement)</b> <ul style="list-style-type: none"> <li>Procurement of direct and indirect materiel varies by location.</li> <li>Limited collaborative relationships with suppliers.</li> <li>Fragm ented applications and reliance on manual workarounds</li> </ul>					<ul style="list-style-type: none"> <li>Consistent formal and enterprise wide strategic sourcing policies and procedures.</li> <li>Collaborative relationship with select PVs to provide visibility into future supply plans, to manage vendor lead times.</li> <li>Enable procurement through electronic platforms and move away from manual workarounds.</li> </ul>	
<b>Inventory management</b> <ul style="list-style-type: none"> <li>Expiry/items on shelf or in cans in some MEDLOG warehouses.</li> <li>Limited track and trace visibility.</li> <li>Significant shrink through expiry, loss, non-returned items.</li> </ul>					<ul style="list-style-type: none"> <li>Consistent execution of expiry rotation and replenishment process.</li> <li>Enable lifecycle track and trace through inventory system.</li> <li>Minimize shrink through application of standard processes for loss prevention, expiry management and item-level accountability for users.</li> </ul>	

● Current State

▨ Target State



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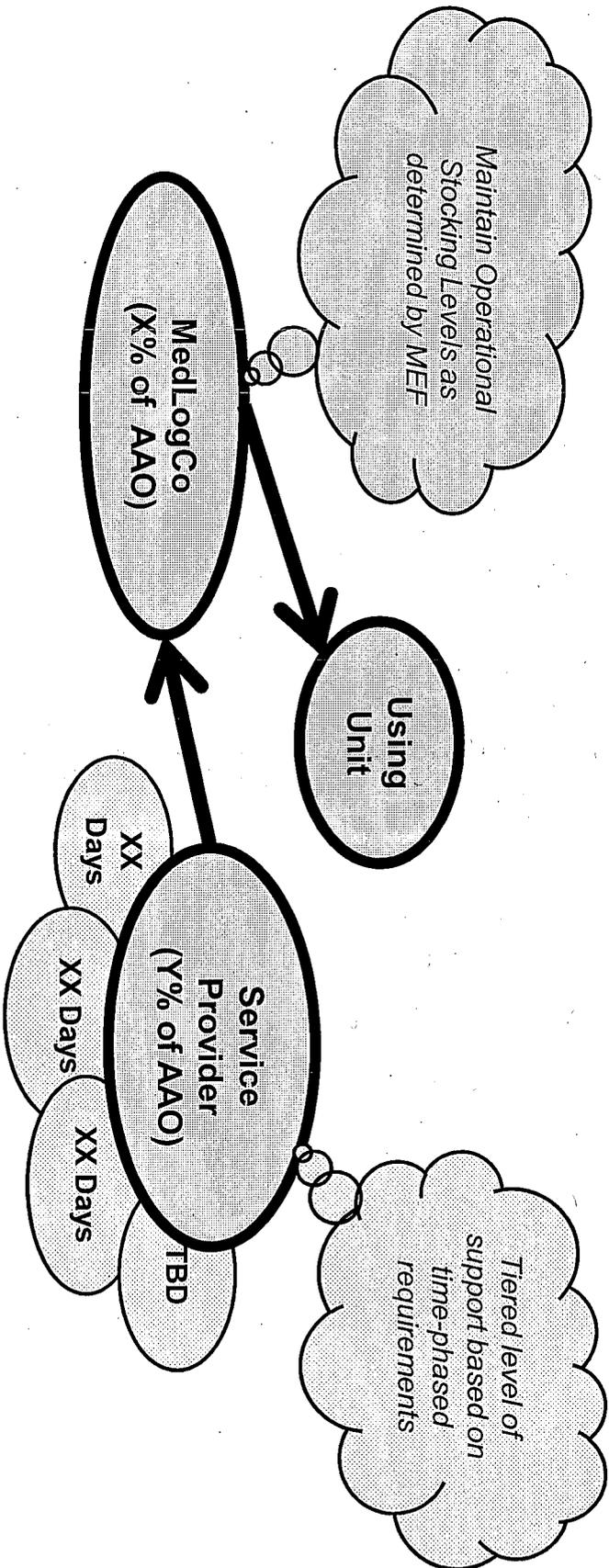
## **Enterprise Management Objectives**

- **Provide Enterprise-wide visibility and accountability;**
- **Promote enhanced and sustained ready-to-issue posture of Class VIII materiel;**
- **Maintain shelf life standards and reduce losses from expiry;**
- **Reduce the in garrison logistics burden on the Operating Forces;**
- **Ensure alignment with I&L's Logistics Modernization initiative in producing a more effective and streamlined logistics process;**
- **Ensure future blocks of Global Combat Support System – Marine Corps include functionality to support Class VIII; and**
- **Reduce overall procurement, replenishment, and replacement costs through use of existing commercial healthcare business model.**



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# Initial Concept Pilot Thoughts

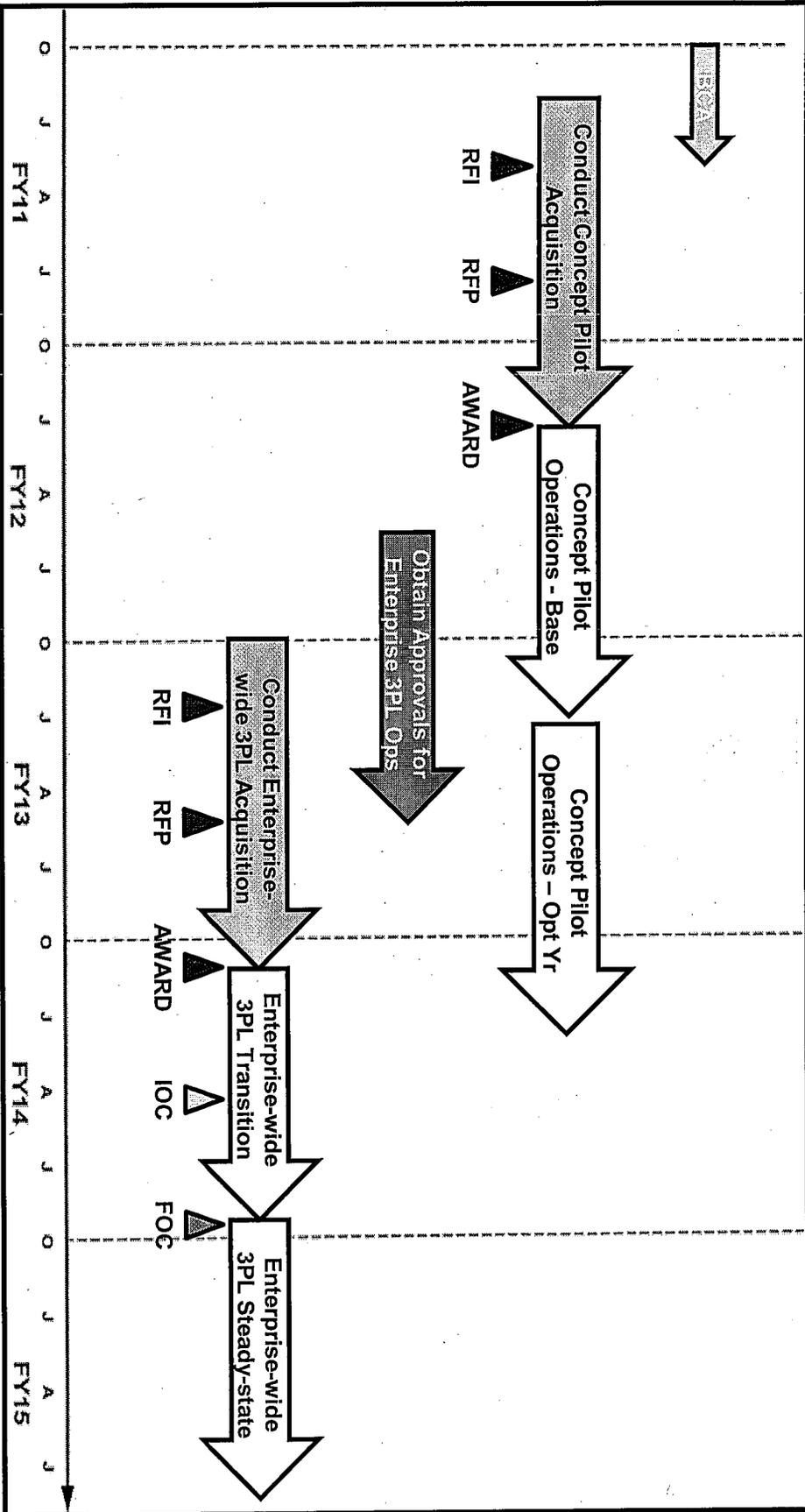


- **Conduct Concept Pilot during FY12**
  - 'Enterprise-wide' rather than single 'region' to ensure ultimate concept of operations addresses each Medlog Company's unique challenges
  - Include representative sample of 'fast movers', 'slow movers', shelf-life expiry, etc.
- **Use knowledge gained to refine requirements for FY14 roll-out**
- **Identify policy changes required to support enterprise management**



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# Project Milestones



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## Summary

- **Class VIII Enterprise Management, based on outsourcing appropriate supply chain management functions using an existing commercial healthcare business model, will:**
  - Increase operational readiness and reduce and/or eliminate the receipt of incomplete AMAL/ADAL blocks and shortages experienced in Iraq and Afghanistan
  - Improve equipment accountability and visibility to enhance planning
  - Standardize AMAL/ADAL configurations to support global sourcing
  - Promote better utilization of trained naval medical professionals
  - Permit acquisition cycle to respond more quickly to improved items and modernized technology
  - Reduce overall procurement, replenishment, and replacement costs (e.g., initial issue, shelf-life expiry, maintenance, etc.)
- **The risk of not proceeding requires Commanders to accept 'status-quo'**

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# **CLASS VIII "101"**

LT John Stage, Team Lead, Family of Field Medical Equipment  
PM, CSE; Marine Corps Systems Command

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## **USMC Deployable Medical Capability**

- **The USMC medical capability consists of US Navy medical personnel coupled with AMALS/ADAL to provide support to Marine Corps' operations**
- **AMALS/ADAL must be:**
  - Rapidly deployable
  - Designed to establish medical treatment facilities & treat the sick and injured
  - An integral part of the theater-wide medical evacuation system
  - Designed to regain mobility as required by the tactical situation
- **AMALS/ADAL must provide:**
  - Point of injury care
  - Medical evacuation
  - In-transit health care
  - Post operative higher-level medical evacuation

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## What is an AMAL/ADAL?

- **AMAL: Authorized Medical Allowance List**
- **ADAL: Authorized Dental Allowance List**
- **Formal process for developing AMAL/ADAL content**
  - Requirements Development
    - Identifying gaps from the warfighter
  - Capabilities Development
    - Vetted and validated
    - Statement of Need (SON)
    - Universal Needs Statement (UNS)
    - Urgent Universal Needs Statement (UUNS)
  - Program Development
    - Material Solution (AMAL/ADAL/KIT)
  - Fielding Transition
- **All substitutions must be pre-approved by Marine Corps Systems Command**

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# Statement of Need (SON)

- **Capabilities Required**
- **System Performance**
- **Concept of Employment**
  - Mission Profiles
  - Mission Essential Functions
- **Replenishment Guidelines**
  - Who - What - Where – When
- **Maintenance Support Planning**
- **Training Concept**
- **Movement Characteristics**
- **Force Structure & Cost**
  - Number of Systems
  - System Distribution



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# A Portion of a Standardized Line List

NSN	Item Description	Part Number	UN	QTY	III	ASC	Unit Price	Effective Date	Amount In	AMAL	Packing Unit
3300-01-514-2241	SEALING MACHINE ELECTRONIC TUBE						1.00 EA	53,067.18	02/09/2011		1.00 EA
4110-01-504-0095	REFRIGERATOR SOLID STATE 610 (HEMACOOL)	HMC-MIL-1					2.00 EA	\$9,754.01	02/09/2011		2.00 EA
2110-00-293-3444	SHEETS STRAIGHT TANNERS						1.00 EA	\$13.29	02/09/2011		1.00 EA
6130-01-492-1863	POWER SUPPLY ARC SMART UPS 1440VA/960VA INPUT 120V OUTPUT 120V						1.00 EA	\$566.89	02/09/2011		1.00 EA
6110-01-176-8446	POWER STRIP ELECTRICAL OUTLET						5.00 EA	\$28.88	02/09/2011		5.00 EA
6515-01-019-4864	SPHYGMOMANOMETER AERIOD 30MM MAX CALIBRATION W/CLIP FOR CURF (BP CURF)	AK2015					2.00 EA	\$50.79	03/13/2011		2.00 EA
6515-01-190-5267	STRIPPER-SEALER-CUTTER BLD COLL TV HAND HELD METAL/CHROME/PLAS						4.00 EA	\$123.74	02/09/2011		4.00 EA
6515-01-492-8703	SHIELD TUBE STAINLESS STL 10 ML HOLDS TUBE THRU TUNNING RING						6.00 PG	\$43.08	02/09/2011		6.00 PG
6515-01-513-7010	MONITOR BLOOD DRAW HEIGHT/LOW 200 COLLECTION PORTABLE						4.00 EA	\$957.12	02/09/2011		4.00 EA
6515-01-527-8068	HEADLAMP MEDICAL 4 INTENSITY MOOPS HOT-HEAT GENERATING						2.00 EA	\$41.06	03/25/2011		2.00 EA
6520-01-456-5283	SINK FIELD 19X19X15" 115/230V 50/60 HZ AC (SMALL DENTAL FIELD SINK ADD-40CF)	ADJ-40CF					1.00 EA	\$41,672.44	02/09/2011		1.00 EA
6520-01-456-5467	STOOL DENTAL OPERATING CHAIR STEEL 22"ADJ VINYL SEAT BACKREST	40C-08					2.00 EA	\$977.86	02/09/2011		2.00 EA
6520-00-660-0014	SUPPORT LITTER FOLDING LIGHTWEIGHT 31.50 INCHES HIGH	SR01RS					4.00 PR	\$118.17	02/09/2011		4.00 PR
6530-01-432-5114	LITTER DECONTAMINATION MASS CASUALTY 1.5M HEAVY GAUGE ALUMINUM						4.00 EA	\$437.12	02/09/2011		4.00 EA
6530-01-500-7243	BED ADJUSTABLE (PATIENT RECOVERY BED KIT)						4.00 KT	\$394.25	03/10/2011		4.00 KT
6630-01-234-6794	ANALYZER CENTRIFUGAL HEMATOLOGY 120/220V 50/60HZ 216MM ID						1.00 EA	\$7,997.48	02/09/2011		1.00 EA
6630-01-515-1823	ANALYZER CLINICAL CHEMISTRY (ACC)						1.00 EA	\$31,015.32	02/09/2011		1.00 EA
6630-01-576-7377	ANALYZER BLOOD (AB)	04148-20					1.00 EA	\$9,959.28	02/09/2011		1.00 EA
6640-00-299-8449	RACK TEST TUBE LAB HEMOGLUTINATION C65 90 TUBE						4.00 EA	\$20.26	02/09/2011		4.00 EA
6640-00-299-8443	WASH BOTTLE LABORATORY 250 ML PLASTIC POLYETHYLENE 2.5" DIA						1.00 EA	\$4.24	02/09/2011		1.00 EA
6640-00-418-8010	COUNTER BLOOD CELLS DIFFERENTIAL REST DEVICE KEY QUANTITY 8						1.00 EA	\$317.60	02/09/2011		1.00 EA
6640-00-484-1345	BOX MICROSCOPE SLIDE PLASTIC 25 SLIDE HINGED/FRICTION FIT COVER						3.00 EA	\$11.78	02/09/2011		3.00 EA
6640-00-880-7923	FUNNEL COMMON LAB POLYPROPYLENE RIBBED 100 MM INSIDE DIAMETERS						.25 PG	\$32.17	02/09/2011		1.00 EA
6640-00-982-1290	BEAKER LABORATORY POLYPROPYLENE 400 ML CAPACITY RATING 500V						1.00 EA	\$2.10	02/09/2011		1.00 EA
6640-01-193-5025	VEYER AGGLUTINATION TEST TUBE FOR BLOOD TYPING 25 WHITE BULB	L6045-1					1.00 EA	\$668.25	02/09/2011		1.00 EA
6640-01-287-0842	INCUBATOR DRY HEAT 25-115 DEG C AC 115/120V 50/60HZ 30X10CM						1.00 EA	\$733.27	02/09/2011		1.00 EA
6640-01-326-5245	JAR BIOLOGICAL STAINING COPLIN PLAS POLYETHYLENE 15 LBS/DOZ 125	.50 PG					1.00 PG	\$106.43	02/09/2011		6.00 EA
6640-01-416-7245	CENTRIFUGE LABORATORY 3400 RPM 110/220 V 50HZ AC SINGLE PHASE (FOR BLOOD BANK)						1.00 EA	\$2,056.31	02/09/2011		1.00 EA
6640-01-482-4743	ROTOR CENTRIFUGE						2.00 EA	\$732.23	02/09/2011		2.00 EA
6640-01-496-3020	CENTRIFUGE LAB 15.75X13.25X10.75IN EDV 50/60HZ AC 50L PH45E						1.00 EA	\$2,289.45	02/09/2011		2.00 EA
6640-01-508-4034	TIMER DIGITAL COUNT UP/DOWN 100 MINUTES W/CLIP HOLE STAND						2.00 EA	\$24.46	02/09/2011		2.00 EA
6640-01-512-0227	ROTOR LABORATORY E/GEN ROTATION OF MANY TYPES AND SIZES						1.00 EA	\$1,012.61	03/21/2011		1.00 EA
6640-00-973-2218	REACTOCHLETTER HAND DIMENSION TYPE ALUMINUM 35SCALE DIRECT READING	1330-00A					1.00 EA	\$4,217.08	02/09/2011		1.00 EA

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# USMC AMAL/LADAL Inventory

30 assemblages and 4 medical kits

- LABORATORY (618/619)
- X-RAY EQUIPMENT (627)
- SHOCK SURGICAL TRIAGE (631/632)
- ACUTE CARE WARD (633/634)
- BATTALION AID STATION (635/636)
- PREVENTIVE MEDICINE (637/638)
- OR (639/640)
- FORWARD RESUSCITATIVE SURGERY SYSTEM (645/646)
- EN ROUTE CARE SYSTEM (647)
- CHEMICAL BIOLOGICAL INCIDENT RESPONSE FORCE (652)
- MARSOC (660)
- FIELD DENTAL OPERATOR (662)
- GEO - COLD & HOT (685/686)
- GEO - NBC INDIVIDUAL (687)
- GEO - NBC UNIT (688)
- MEDLOG TEST/REPAIR (691/692)
- SICK CALL BLOCK (699)
- JOINT BIOLOGICAL AGENT IDENTIFICATION AND DIAGNOSIS SYSTEM (JBAIDS)

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# **Custodial/Life-cycle/Transportation Management**

- **Marine Expeditionary Forces (MEF)**
  - 1st Medical Logistics Co, Camp Pendleton, CA
  - 2nd Medical Logistics Co, Camp Lejeune, NC
  - 3rd Medical Logistics Co, Okinawa Japan
- **Marine Reserves**
  - 4th Medical Logistics, Newport News, VA
  - 4th Medical Logistics Detachment, Miramar, CA
- **Maritime Preposition Ships**
  - Blount Island Command, Florida
  - Marine Corps Preposition, Norway



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## **USMC AMAL/ADAL**

### **Authorized Acquisition Objectives**

- **I MEF: 718**
- **II MEF: 724**
- **III MEF: 523**
- **Reserves: 215/75**
- **Maritime Preposition Ships: 492 / MCPPN: 120**
- **Others: 77 (SOC/CBIRF)**
- **Warfighter Oriented Medical Kits:**
  - **Corpsman Assault Packs (CAP): 8,479**
  - **Individual First Aid Kits (IFAK): 211,746**
  - **Combat Life Savers Kits (CLS): 15,520**
  - **Vehicle Medical Kits (VMK): 7,400**

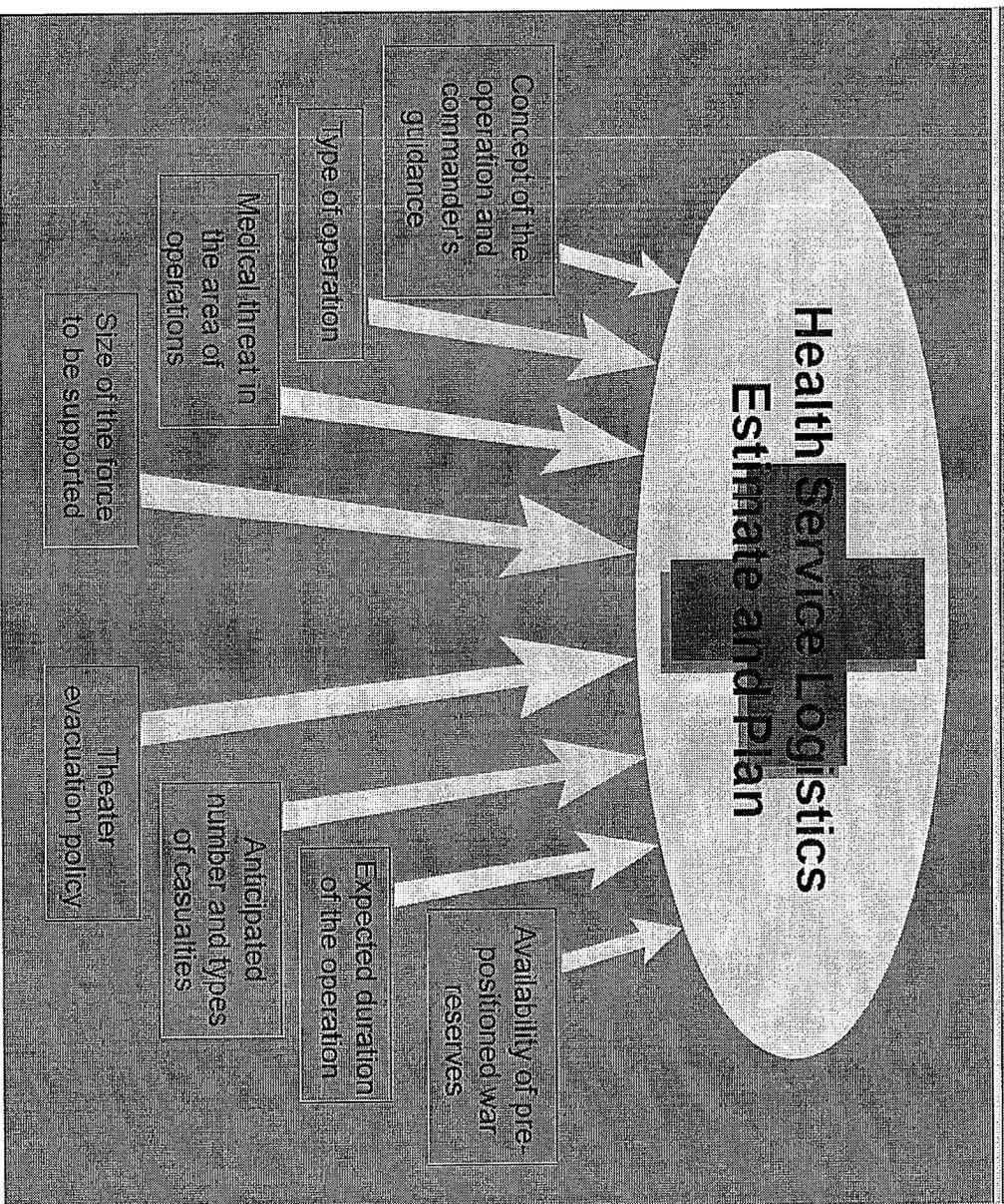
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# Planning for Use

## PLANNING FOR JOINT HEALTH SERVICE LOGISTICS SUPPORT



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## Planning for Use

- **Joint Health Service Logistics planner determines:**
  - Sizes and locations of health service logistics organizations and installations required
  - Types of medical supplies needed
  - Stock levels to be maintained
  - Medical equipment maintenance procedures
  - Preventative medicine support for all phases of the operation
- **Based on:**
  - Forces-at-risk
  - Casualty admissions rates
  - Evacuation policy
- **Develops:**
  - Time-Phased Force Deployment Data

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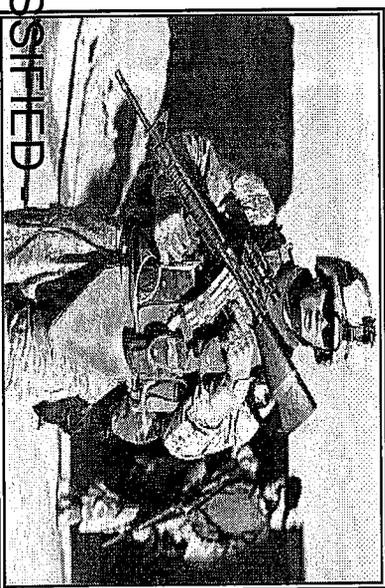
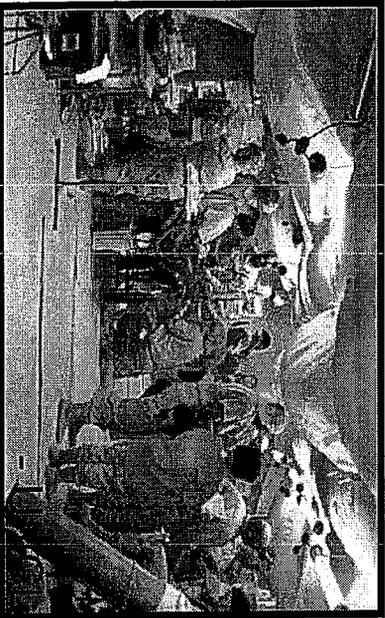
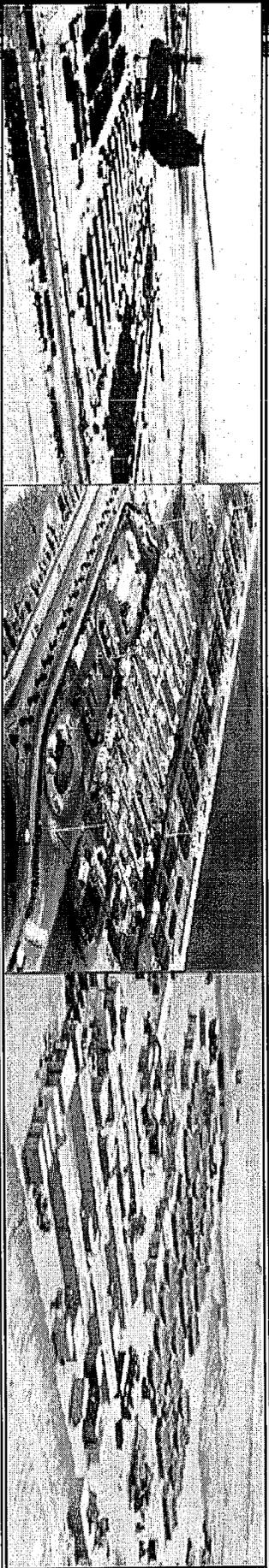
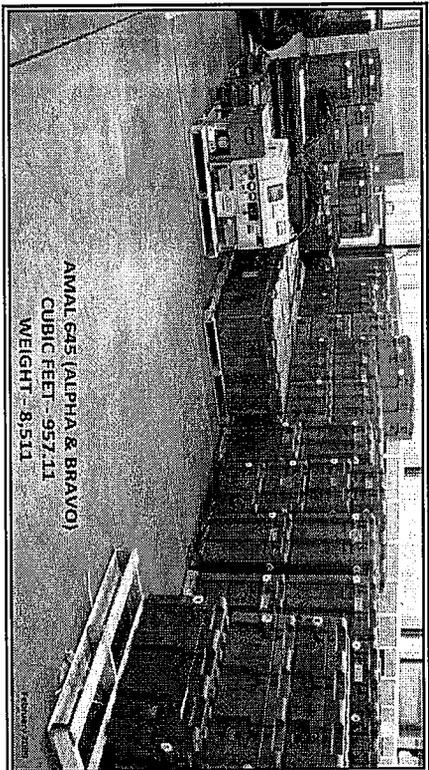
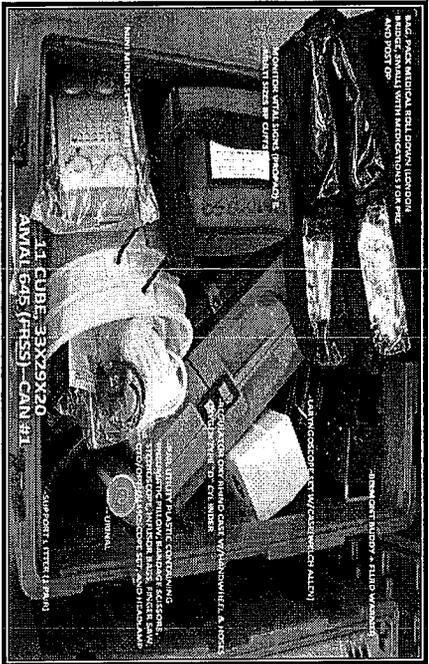
## **Making It Better (Modernization)**

- **AMALS/ADAL undergo scheduled reviews every four years to improve operational medical readiness**
  - Current garrison treatment protocols and modalities
  - Battlefield standards of care
  - Technological upgrades
- **Ad hoc updates to portions of AMALS/ADAL occur as required**
- **Three Phase Process**
  - Pre-Review
    - SMEs identified
  - Review
    - Line by Line Scrub
  - Post-Review
- **Funding and Fielding**



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**Bottom Line**



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# QUESTIONS



**BREAK**  
**20 minutes**

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# **CLASS VIII MANAGEMENT CONCEPT OF OPERATIONS**

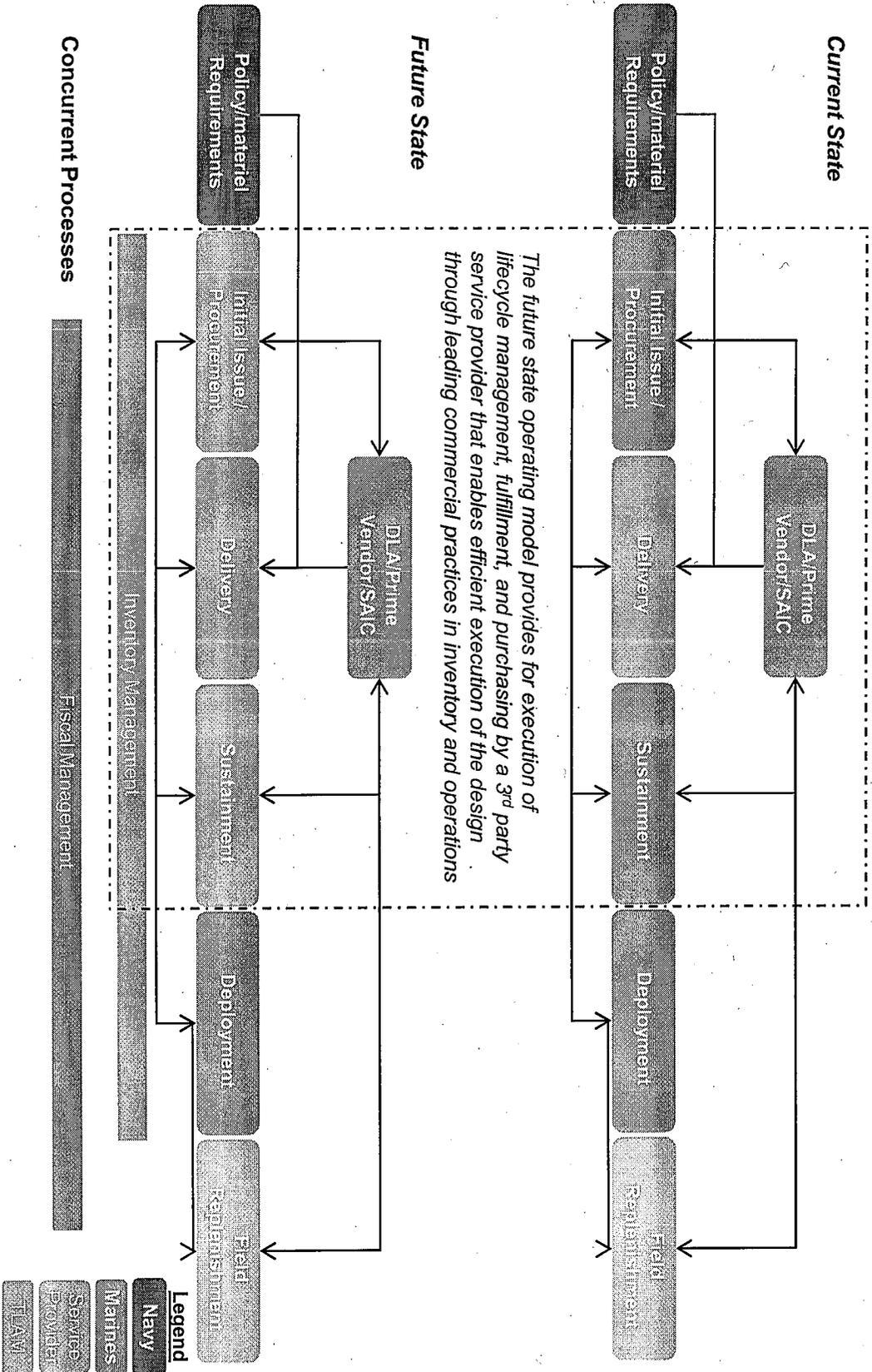
Mr. Max Goralnick; Strategy & Operations  
Deloitte Consulting LLP



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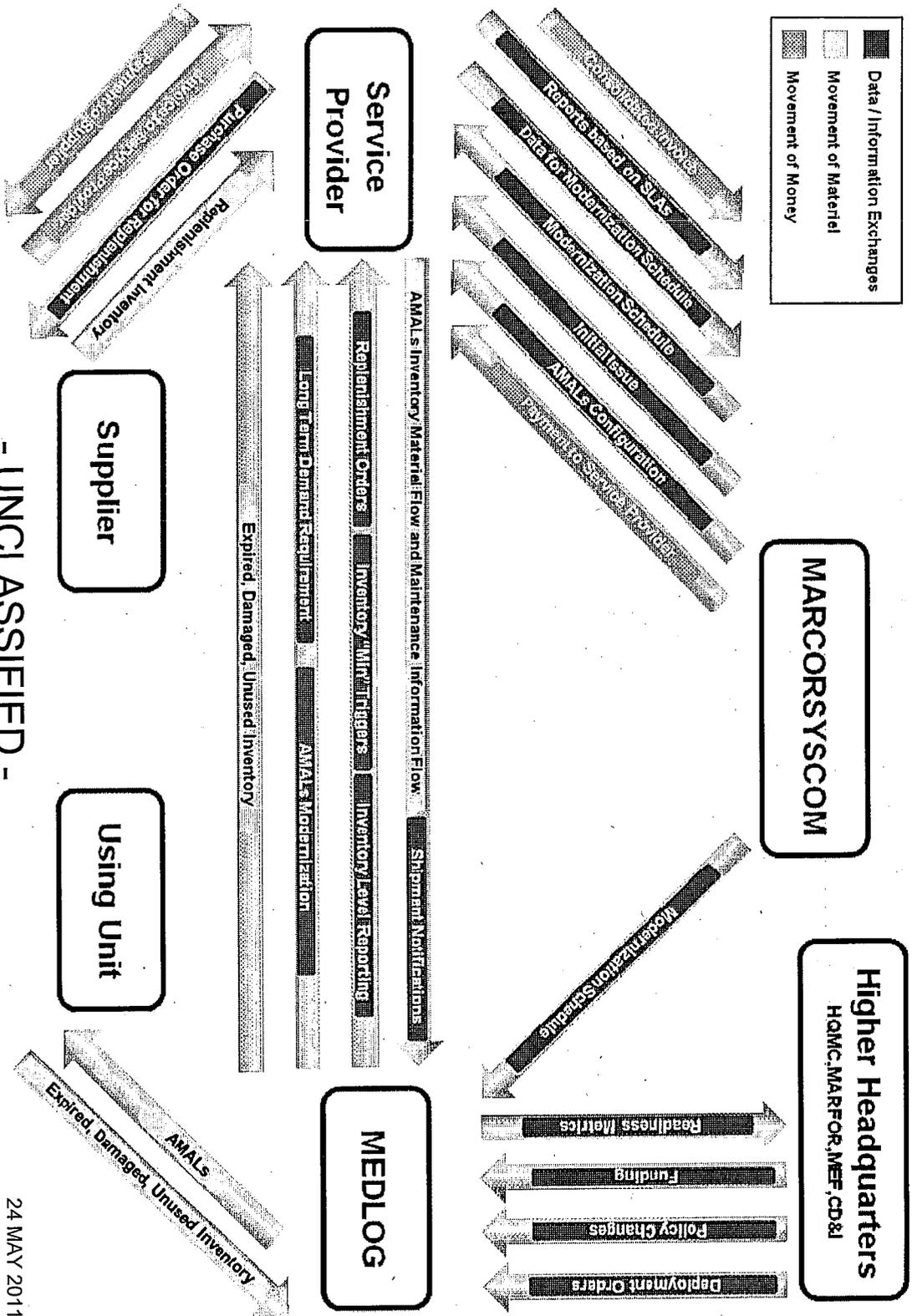
# USMC Class VIII Potential Operating Model



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# Class VIII Enterprise Management Preliminary Operational View (OV-1)

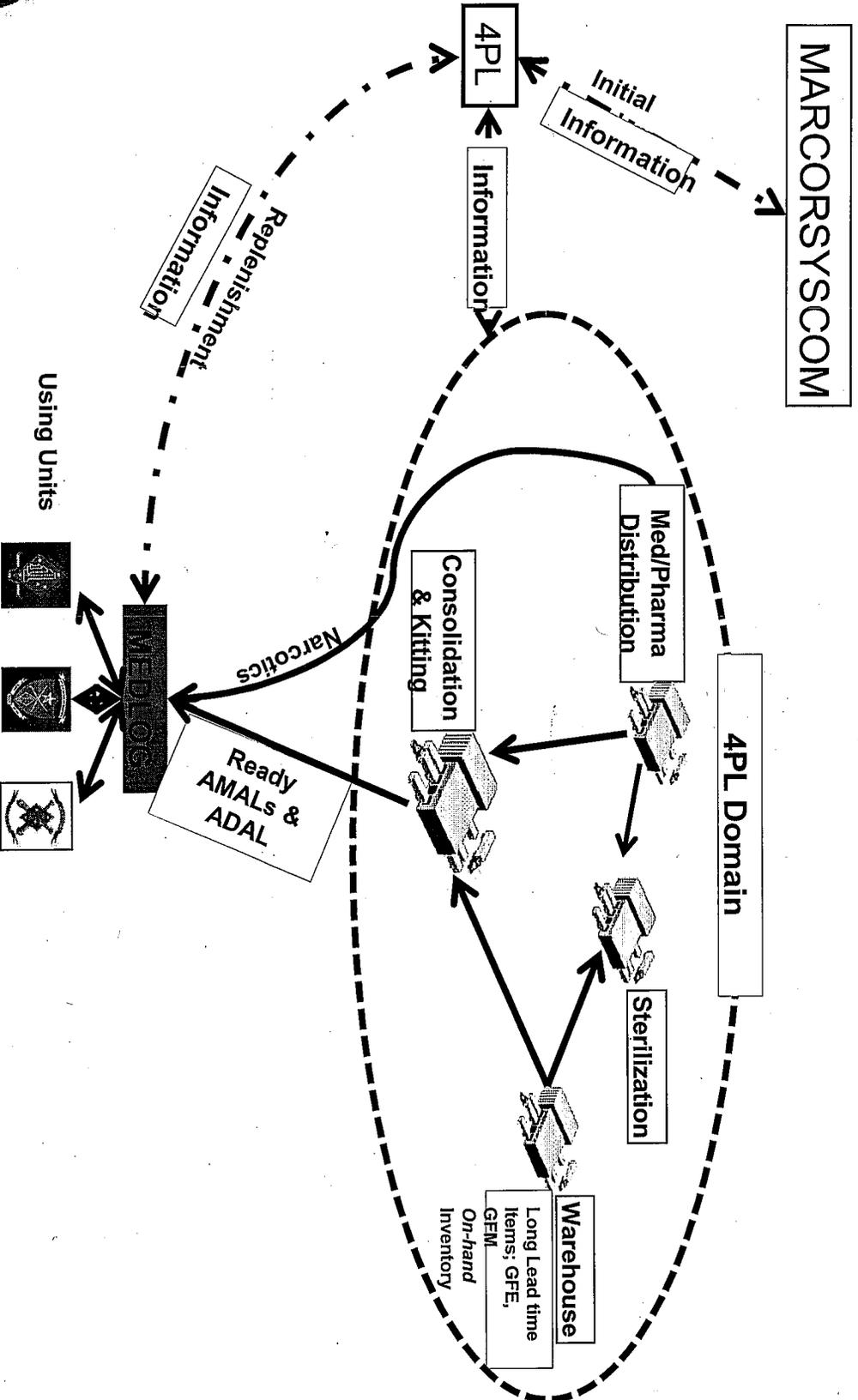


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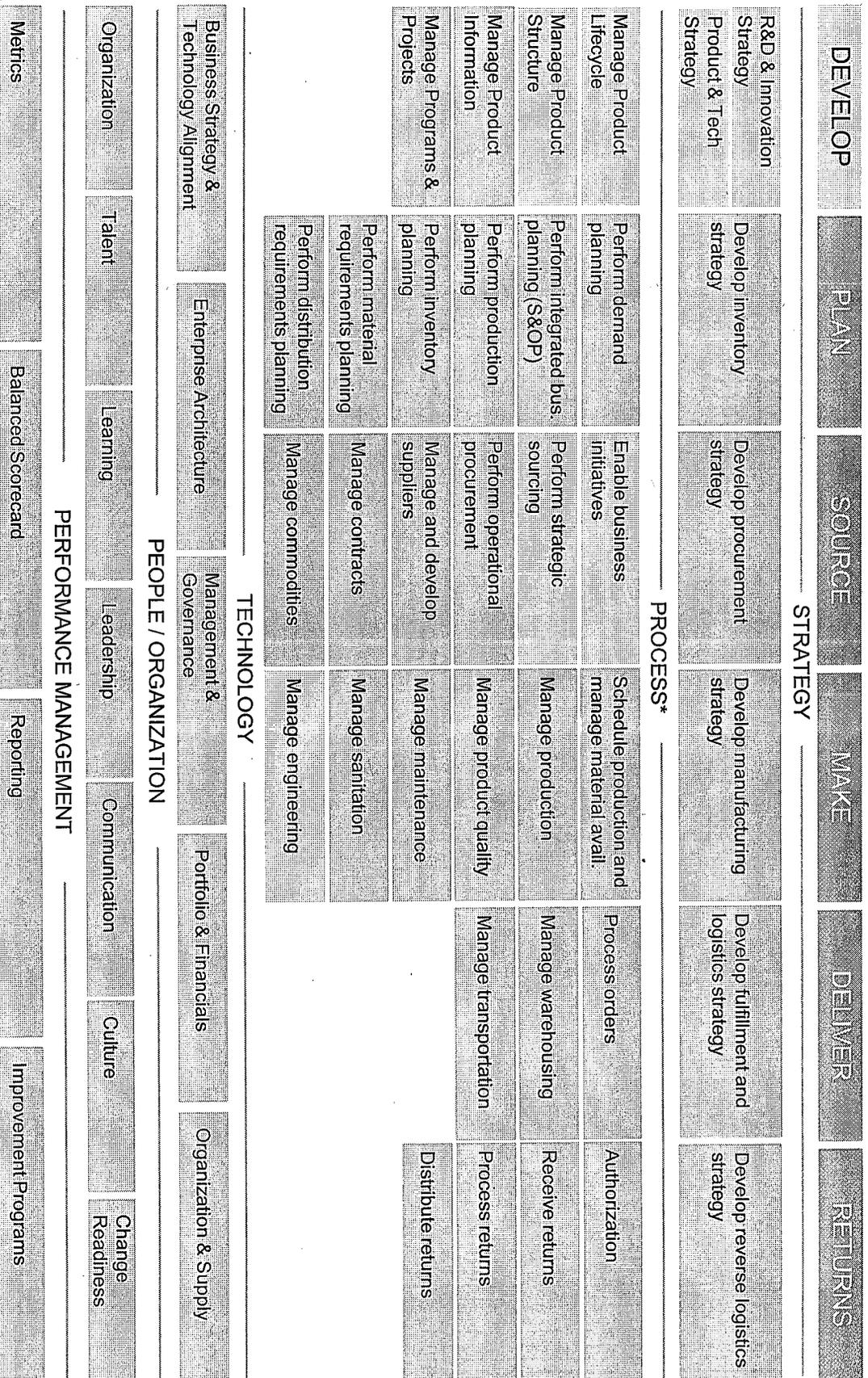
# Draft Concept of Operations System View



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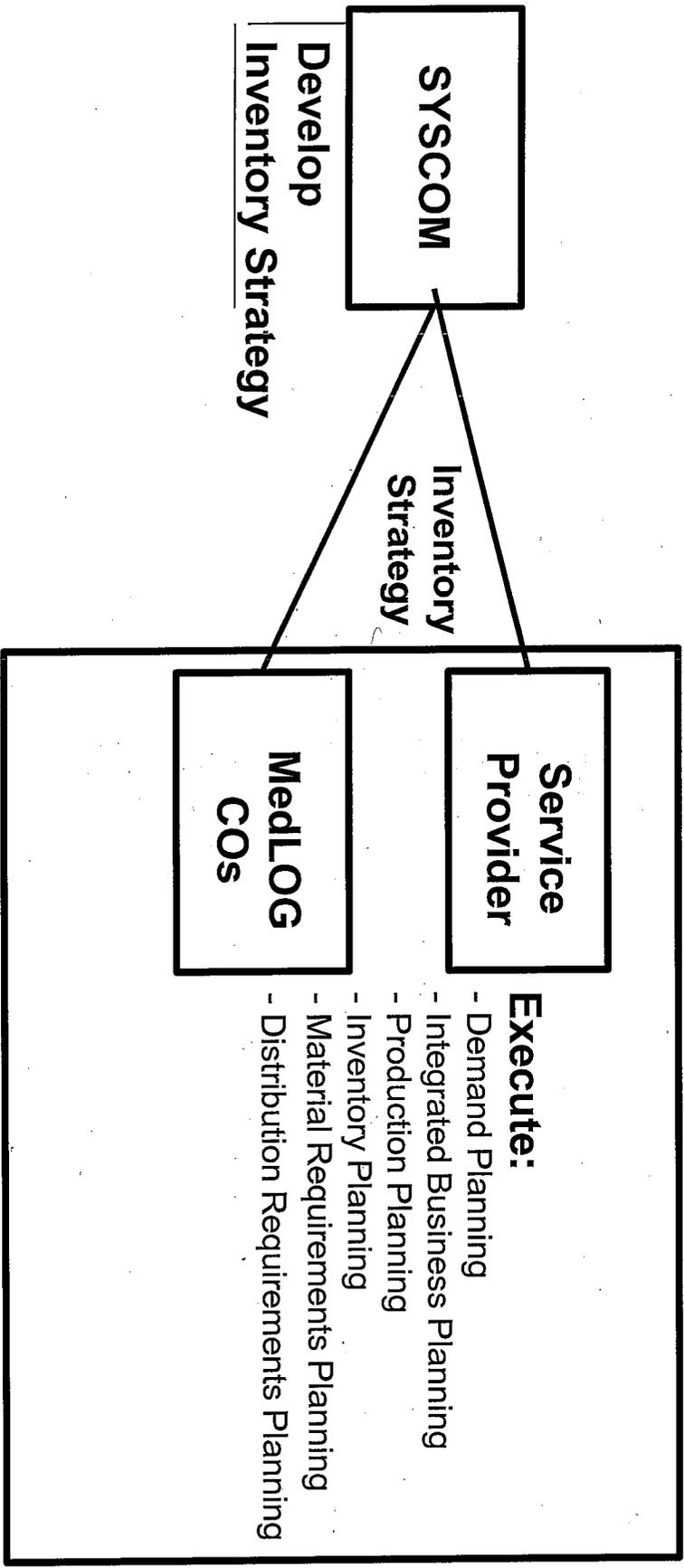


# Supply Chain Framework



# Concept of Operations - PLAN

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# To Be Process Analysis (RACI) – PLAN

Future State Enterprise Management	Service Provider	MEDLOGCO	MCSC	MEF	CD&I	HQMC
<b>DEVELOP</b>						
Manage Product Information	I	I	R	I	C	I
Manage Programs and Projects	C	I	R	I	I	I
<b>PLAN</b>						
<b>A</b>						
Develop Inventory Strategy	C	C	R	I	I	I
Perform Demand Planning	I	R	C	R	I	n/a
Perform Production Planning	R	C	R	C	I	n/a
Perform Inventory Planning (Strategy/Policy)	R	C	C	C	I	R
Perform Material Requirements Planning	I	C	R	C	C	n/a
Perform Distribution Requirements Planning	C	C	R	I	I	n/a
Conduct Research & Development	C	C	R	C	C	n/a

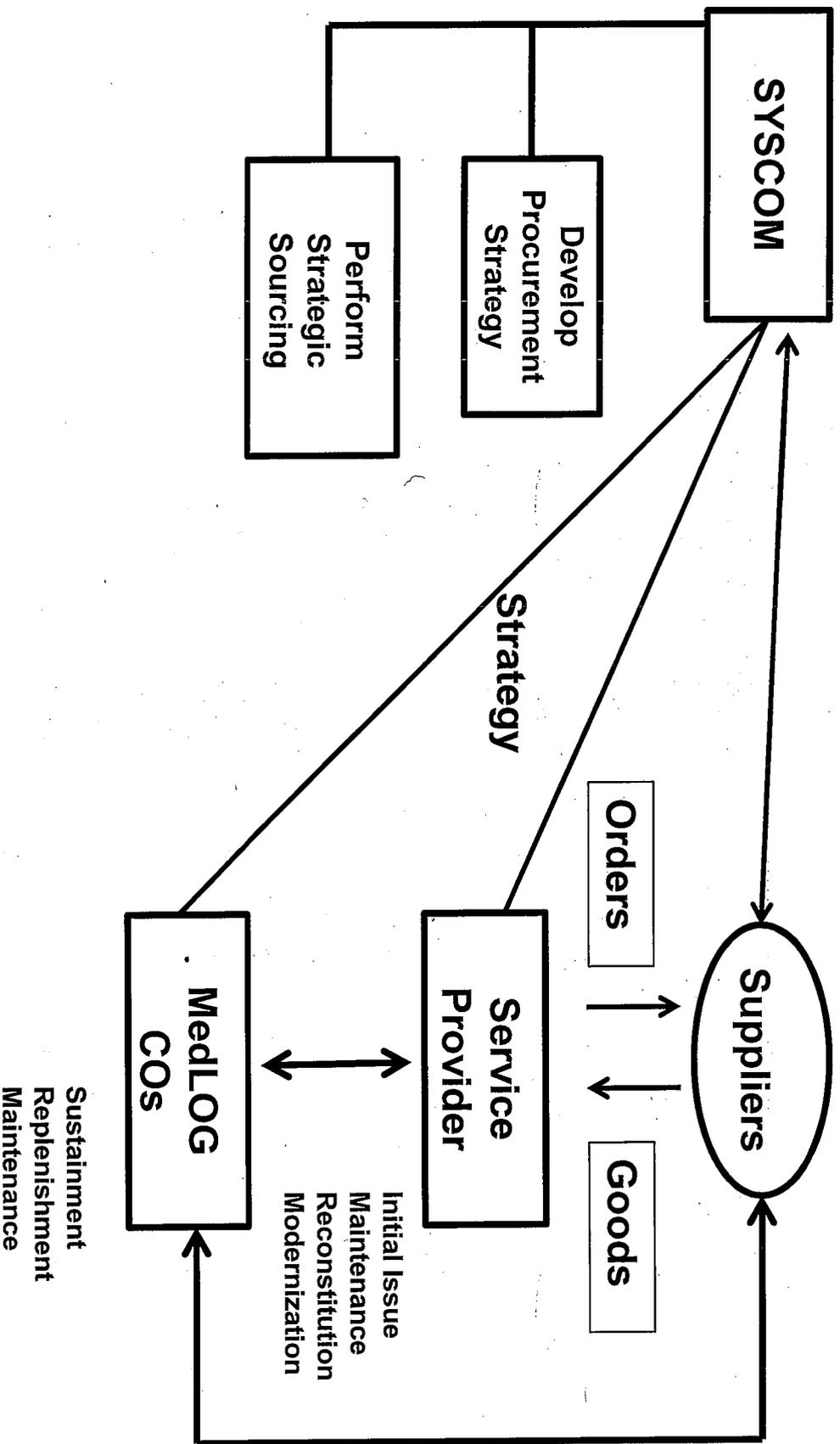
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# Concept of Operations – SOURCE

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# To Be Process Analysis (RACI) - SOURCE

Future State Enterprise Management	Service Provider	MEDLOG	MCSC	MEF	CD&I	HQMC
<b>SOURCE</b>			<b>A</b>			
Develop Procurement Strategy	I	I	R	I	C	I
Perform Operational Procurement	R	I	I	I	n/a	n/a
Manage and Develop Suppliers	R	I	R*	I	n/a	C**
Manage Product Quality (Sourcing Line List Against Requirements)	R	I	A	I	I	n/a
Manage Commodities	R	I	I	I	n/a	n/a
Market Research for Modernization	C	I	R	I	I	I

\*For GFE only

\*\*HQMC is consulted for supplier policy

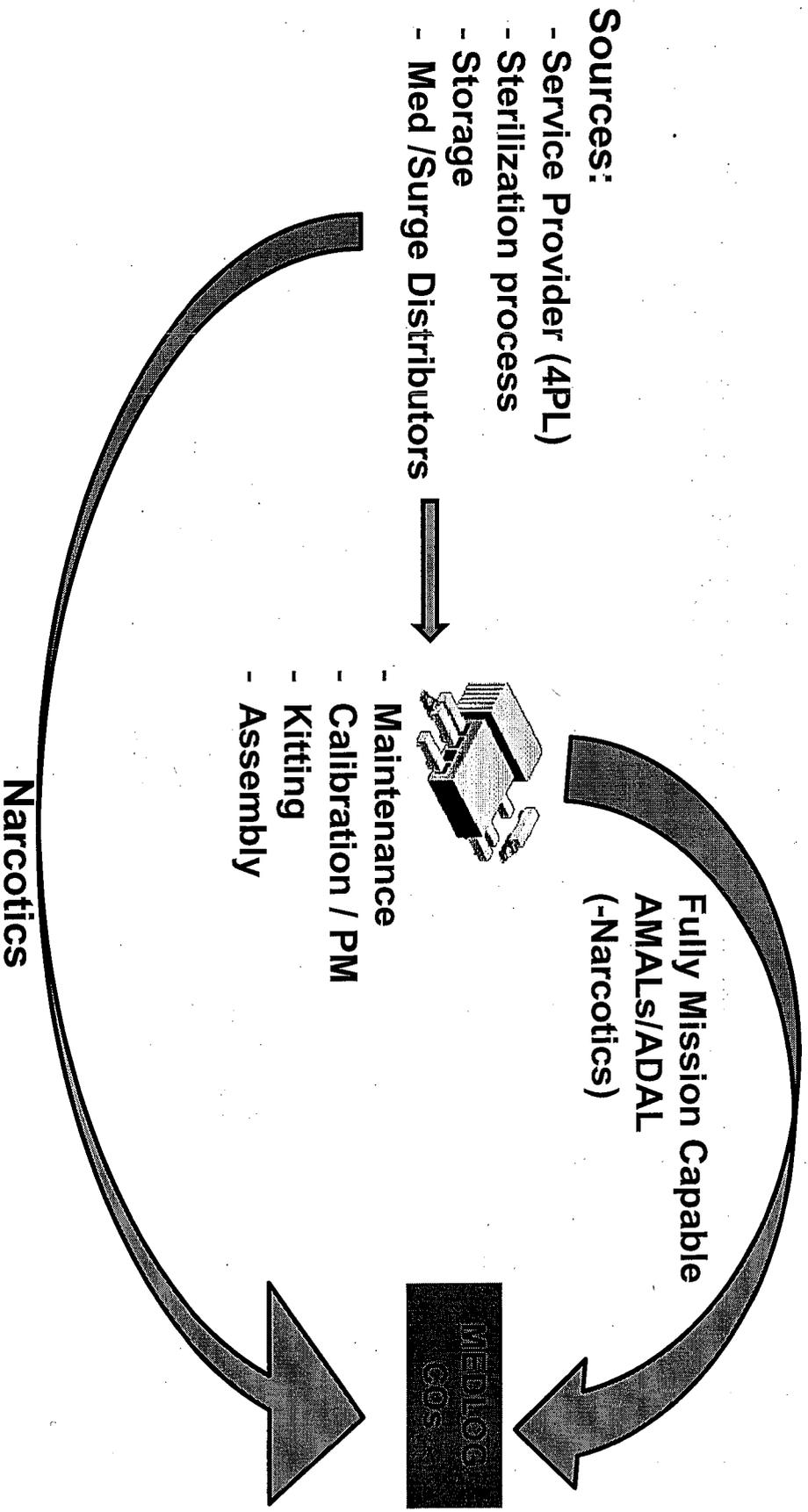
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# Concept of Operations – MAKE



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# To Be Process Analysis (RACI) - MAKE

Future State Enterprise Management	Service Provider	MEDLOGCO	MCSC	MEF	CD&I
<b>MAKE</b>			<b>A</b>		
Develop Manufacturing Strategy (Kitting/Assembly)	C	C	R	C	I
Schedule Production and Maintain Material Availability	R	R	C	C	n/a
Manage Production	R	C	I	I	n/a
Manage Product Quality	R	I	A	I	I
Manage Maintenance	R	R	I	I	n/a
Manage Sanitation	R	R*	I	I	n/a

\* For reconstitution only

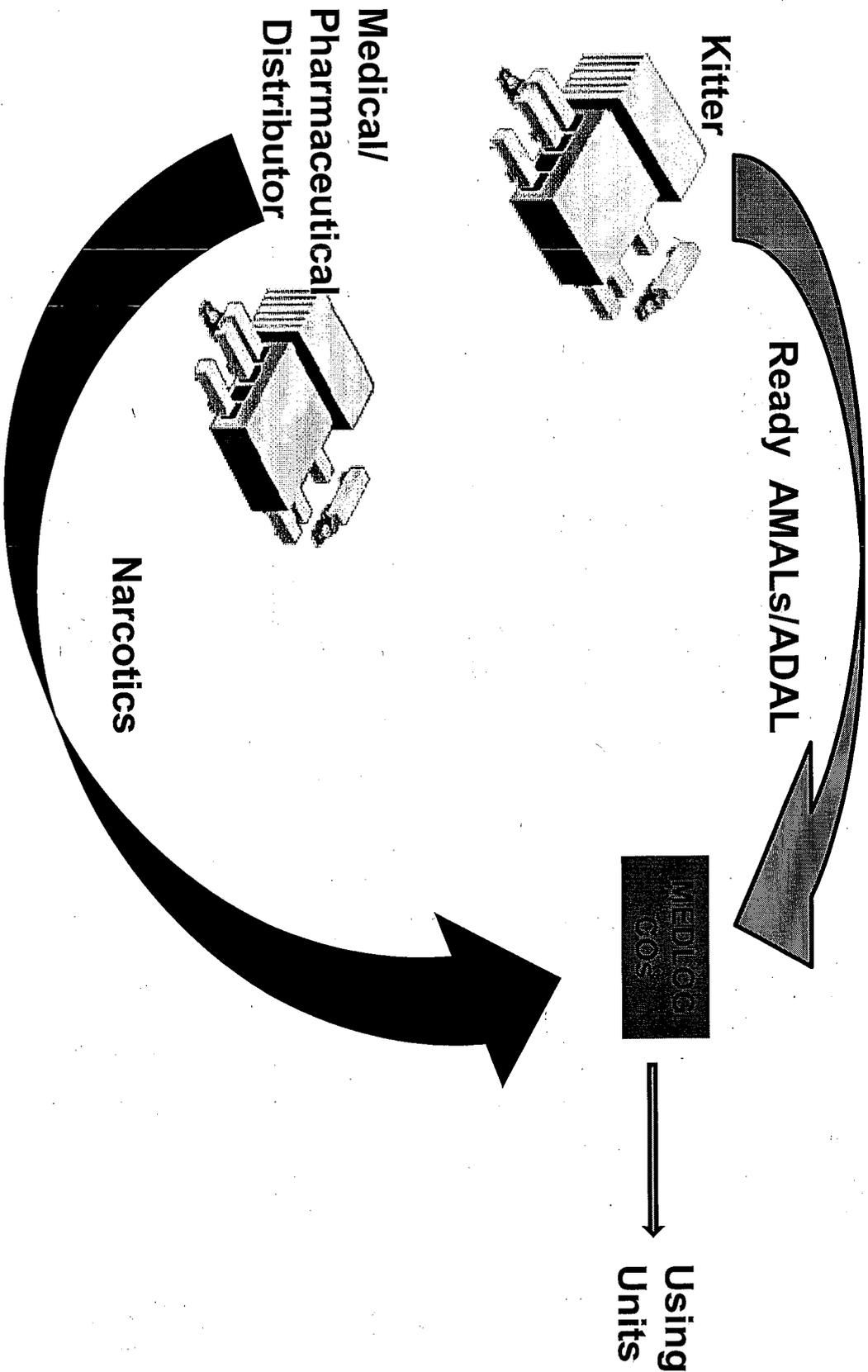
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# Concept of Operations – DELIVER



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# To Be Process Analysis (RACI) - DELIVER

Future State Enterprise Management	Service Provider	MEDLOGCO	MCSC	MEF	CD&I	Using Unit
<b>DELIVER</b>			<b>A</b>			
Develop Fulfillment and Logistics Strategy	C	C	R	I	n/a	C
Process Outbound Orders (to Using Unit from MEDLOG)	I	R	I	I	n/a	C
Process Inbound Orders from Suppliers (from 4PL to MEDLOG)	C	R	R*	I	n/a	I
Manage Warehousing	R	R	A	n/a	n/a	n/a
Manage Inbound Transportation	R	C	I	I	n/a	I
Manage Outbound Transportation	R	C	I	I	n/a	R
Manage Inspection (LTI) and Quality Assurance	C	R**	I	n/a	n/a	R***

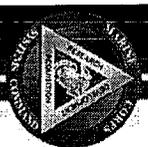
\*For GFE only

\*\*For inbound only

\*\*\*For outbound only

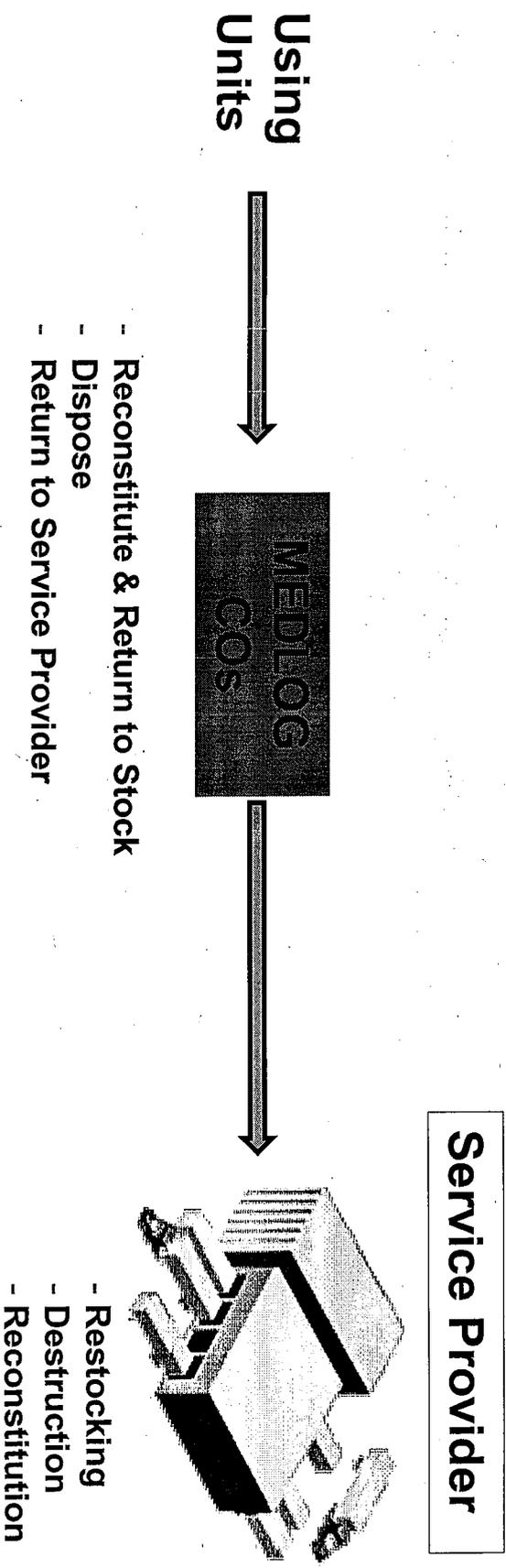
R: Responsible A: Accountable C: Consulted I: Informed

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# Concept of Operations – RETURN



- MEDLOG Companies will be responsible for the restocking and maintenance of AMALs/ADAL held and issued for exercises and training
- Thresholds (\$ value or % of AMALs/ADAL) will be developed to determine when AMALs/ADAL is returned to Service Provider for restocking/reconstitution



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# To Be Process Analysis (RACI) - RETURN

Future State Enterprise Management	Service Provider	MEDLOGCO	MCSC	MEF	CD&I	Using Unit
<b>RETURNS</b>			<b>A</b>			
Develop Reverse Logistics Strategy	C	C	R	I*	n/a	n/a
Authorization	I	I	R	I	n/a	I
Receive Returns	R	R	I	I	n/a	I
Process Returns	R	R	I	C	n/a	n/a
Distribute Returns	R	R	C	I	n/a	n/a

\* C if financial or readiness impact

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# CONCEPT PILOT APPROACH

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## **Concept Pilot Scope Objectives**

- **Provide an enterprise wide test of the concept**
- **Use a representative sample of AMALs and ADALs**
- **Exercise the end to end process from planning through returns**
- **Take place within a garrison environment**
- **Utilize opportunities provided through planned and emergent operating force exercises and deployments**



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## Concept Pilot

- **Purpose: Validate the Enterprise-wide Concept of Operations and prepare transition to full scale operations**
- **Method:**
  - Table-Top Exercise
  - Simulation
  - Limited operational execution of activities
- **End State: Gain a clear understanding of how to successfully execute the enterprise-wide program**



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## **Piloting an Enterprise Strategy for Class VIII Operations to Drive Improved Readiness**

- **PM CSE initiated Class VIII Business Case Analysis due to**
  - Long delays in modernizing AMALs/ADAL blocks
  - Low operational readiness rates across the Operating Forces
  - Poor equipment accountability and inventory management
  - Global sourcing of AMALs/ADAL blocks highlight Status Quo challenges
- **Class VIII Enterprise Management Objectives**
  - Provide Enterprise-wide visibility and accountability
  - Promote enhanced and sustained ready-to-issue posture of Class VIII materiel
  - Maintain shelf life standards and reduce losses from expiry
  - Reduce the in garrison logistics burden on the Operating Forces
  - Ensure alignment with I&L's Logistics Modernization initiative in producing a more effective and streamlined logistics process
  - Ensure future blocks of Global Combat Support System – Marine Corps include functionality to support Class VIII
  - Reduce overall procurement, replenishment, and replacement costs through use of existing commercial healthcare business model



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# Example AMALs in Scope for the Pilot

Characteristic	699	685
1. Fast Mover	X	
2. Slow Mover		X
3. Cold Chain Requirements		
4. PM / Calibration Requirements	X	X
5. Heavy Equipment		
6. Narcotics / Controlled Items		
7. Govt. Furnished Equipment (GFE)	X	X
8. Non-GFE		
9. Long Lead Time		X
10. Cyclical / Seasonal Demand	X (MFR)	X
11. Scheduled for Modernization		X
12. New Capability		
13. Low Density		
14. Mission Critical		X
15. Standardized Configuration		



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# Government Furnished Property

- **Government Furnished Equipment (GFE)**
  - Containers
  - Equipment already on-hand taken from MedLogs
- **Government Furnished Material (GFM)**
  - Mandatory source(s) of supply
  - Consumables already on-hand taken in from MedLogs
- **Government Furnished Information (GFI)**
  - Kitting configurations
  - Delivery point information
  - Equipment information for that taken from MedLogs (PMCS, shelf-life, lot, etc.)

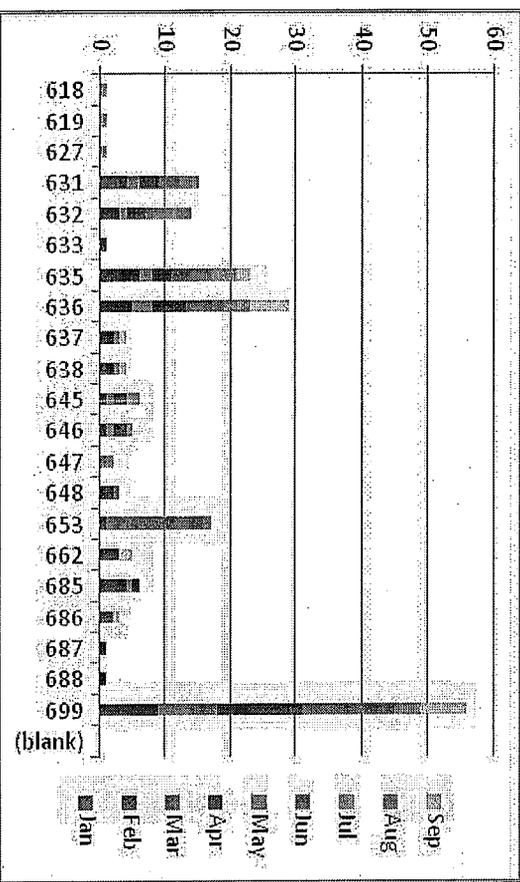
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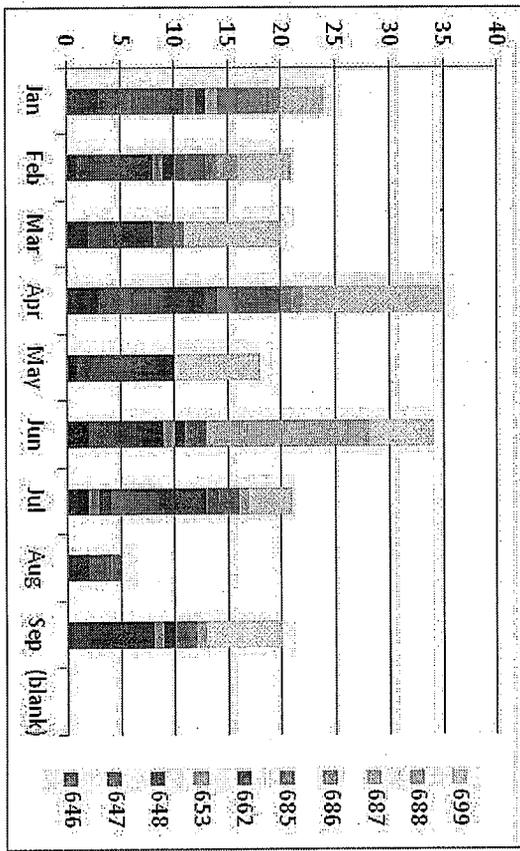
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# Current State

1st Medlog AMALs usage by type



1st Medlog AMALs usage by Month



Initial Observations:

- 699, 635 & 636 are the most deployed for both training and deployments (Bn Size Kit)
- 645 & 646 are deployed to the MED Bn
- No current data collected on returns
- Total value of deployed AMALs is \$20MM – no detailed replenishment reports when the training & MEU AMALs are returned
- During the same period 1st MEDLOG disposed of \$2.5MM of supplies and equipment
- Clearly identify fast movers & slow moving inventory
- MSC Usage:
  - MEUs – 34%
  - 1st MARDIV – 35%
  - 1st MLG – 23%
  - 3rd MAW 5%



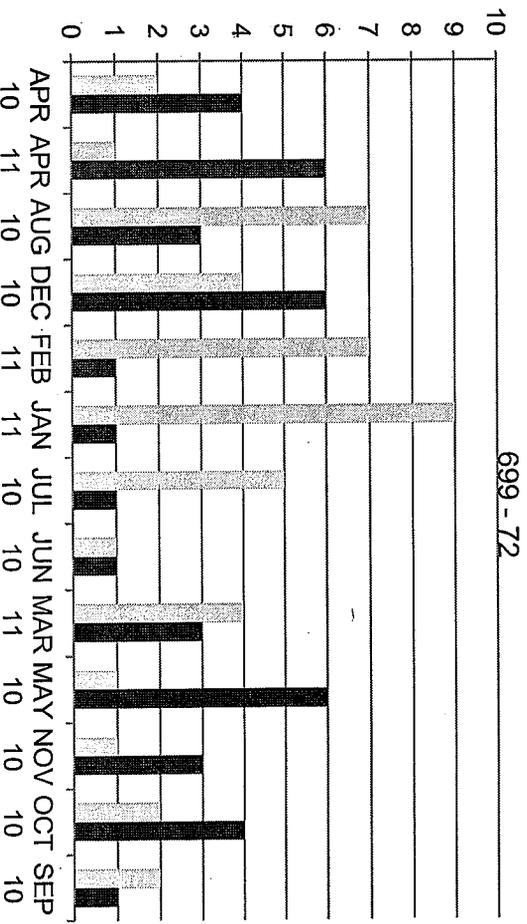
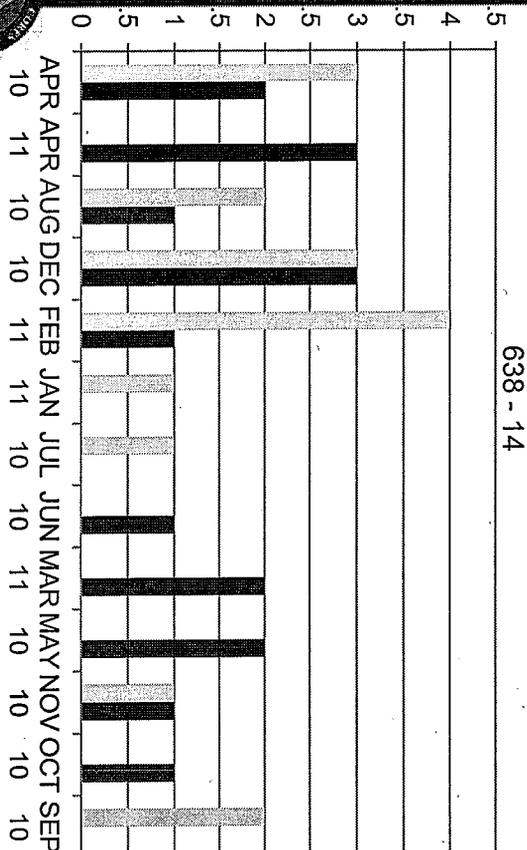
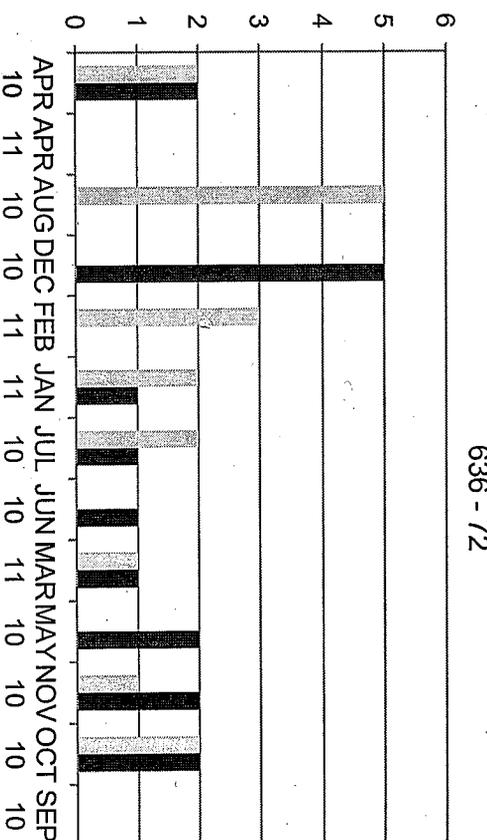
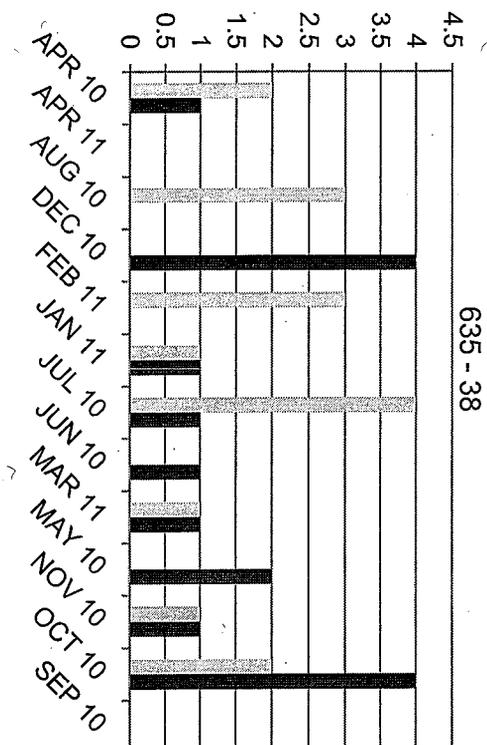
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Data from 1st MEDLOG – 1/10 – 10/2010

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# III MEF "Fast Movers" AMALS



Issued

Received

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# Anticipated Likely Data Elements

## Plan

- NSN
- Quantity
- Expected receive date

## Source

- NSN
- Quantity
- Origin/Destination
- Unit Cost
- UOM (unit of measure)
- Order date
- Ship Date
- Expected receive date

## Make

- Unique Identifier
- NSN/AMAL
- Quantity
- Unit Cost
- UOM (unit of measure)
- Equipment Data
  - PMCS
  - QA
  - Calibration

## Deliver

- Unique Identifier
- NSN/AMAL
- Quantity
- Origin/Destination
- Unit Cost
- UOM (unit of measure)
- Order date
- Ship Date
- Expected receive date

## Return

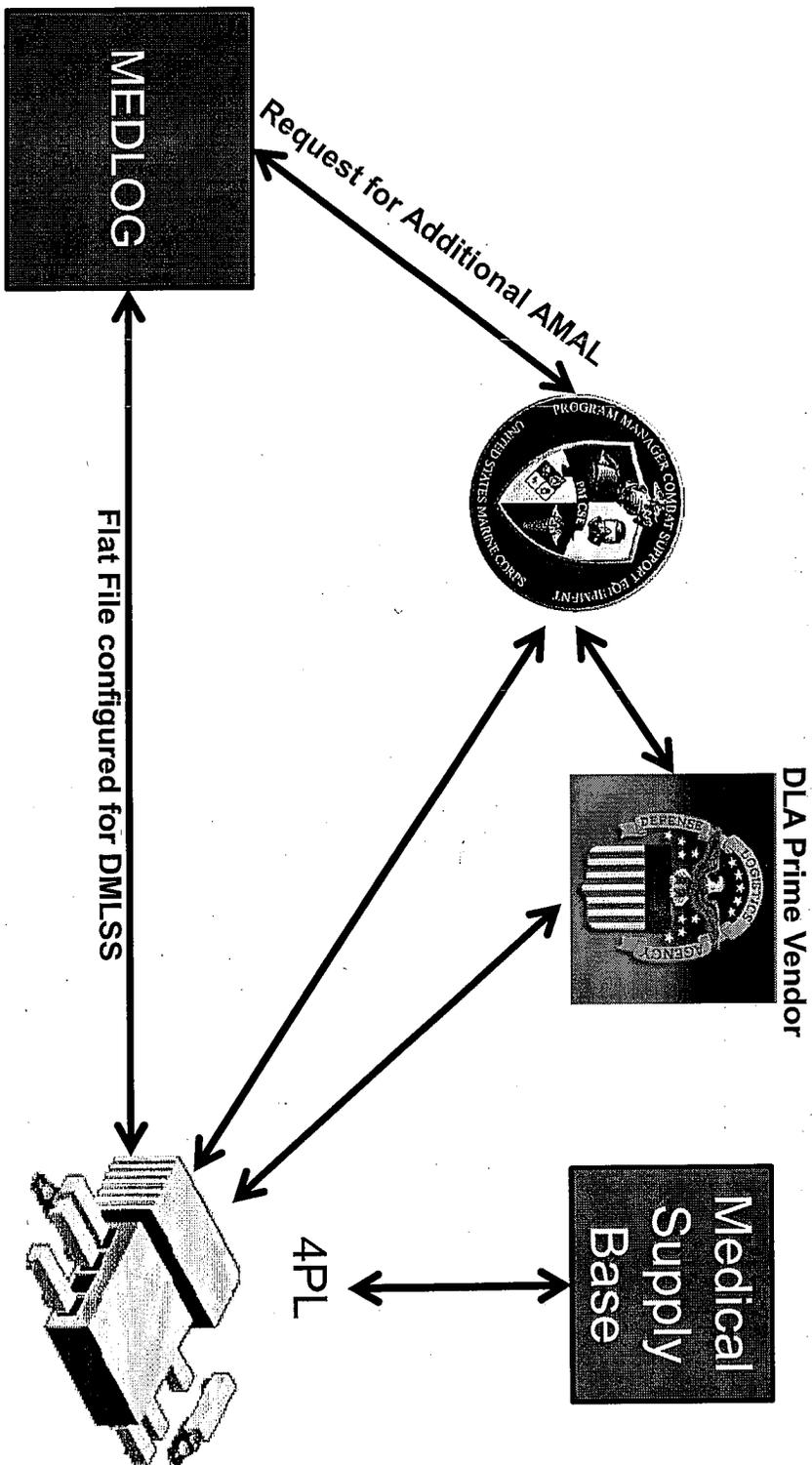
- Unique Identifier
- NSN/AMAL
- Quantity
- Financial Data
  - Restock: Credit
  - Destroy: Debit
  - Reconstitute: Credit
  - Replenish: Debit

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# Potential Concept Pilot Information Management Approach



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# Operational Scenario 1: Class VIII Surge

## Scenario

A Marine Expeditionary Unit (MEU) sized using unit requests Class VIII support for a contingency operation. The MEU deployment will embark within 30 days. After review of the MEU requirements MEDLOG is unable to provide AMALs 631 and 632 from locally held assets by the Required Delivery Date (RDD). On 1 April MEDLOG places a demand on the Service Provider for AMALs 631 (Shock Surgical Triage equipment) and 632 (Shock Surgical Triage Consumables) with a RDD of 1 May.

## Requirement

### That the Service Provider:

- Notify MEDLOG of the status of order
- Receipt of request
- Availability of material/offer of substitutions
- Estimated ship and arrival dates
- Actual shipping date
- Notify MEDLOG of the Condition of Assets
- Planned contents of shipment (substitutions/ shortages)
- Packing list (may be RFI enabled)
- Actual contents upon shipping
- Equipment status
- Calibration status
- Preventive maintenance status
- Provide Information Management:
- The provider must be able to receive and provide SCM information electronically in a format and application that interfaces with the DMLSS system

### That the MEDLOG:

- Create the demand in the DMLSS system
- Maintain and manage the status of the order in DMLSS
- Inform the using unit of status and condition of assets through DMLSS
- Confirm that the using unit approves or accepts deviations/adjustments to their requirement
- Receive and consolidate the shipments, records their receipt, validates the condition and quantity and the subsequent issue to the using unit
- Record the issue and receipt in DMLSS
- Data within DMLSS for each AMALs down to the NSN level is visible and adequate to support MEDLOG financial responsibilities, contractor payment, medical recalls and inventory management by the using unit



# Operational Scenario 2: Modernization of an Existing AMAL

## Scenario

The PM, CSE is directed to enhance the existing AMALs 645 (Forward Resuscitative Surgery System). This AMAL is authorized to be held by both the Service Provider and the MEDLOGs.

### Requirement

	That the Service Provider:	That the MEDLOG:
<p><b>That the PM:</b></p> <ul style="list-style-type: none"> <li>• Plan, coordinate, and manage the changes to the AMALs</li> <li>• Develop an inventory strategy</li> <li>• Coordinate modernization plan and strategy with MEDLOGs and Service Provider</li> <li>• Develop a procurement strategy</li> <li>• Designate roles &amp; responsibilities for procurement</li> <li>• Designate roles &amp; responsibilities for care-in-store activities</li> <li>• Update DMLSS with information</li> </ul>	<p><b>That the Service Provider:</b></p> <ul style="list-style-type: none"> <li>• Execute roles and responsibilities as designated</li> <li>• Provide the PM SCM information electronically in a format and application that interfaces with DMLSS</li> <li>• Execute procurement, inventory and care-in-store activities as assigned</li> <li>• Provide reports and information as required to document receipt, readiness, availability, etc.</li> </ul>	<p><b>That the MEDLOG:</b></p> <ul style="list-style-type: none"> <li>• Execute roles and responsibilities as designated</li> <li>• Execute inventory and care-in-store activities as assigned</li> <li>• Record SCM information in DMLSS</li> <li>• Provide reports and information as required to document receipt, readiness, availability, etc.</li> </ul>



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# Operational Scenario 3: RETURN of AMALs 631 and 632

## Scenario

A Marine Expeditionary Unit returns from a deployment. The MEU is returning all equipment and supplies which were issued in support of its deployment. AMALs 631 & 632 were used during the deployment. Some replenishment materiel was ordered while the MEU was afloat; however, not all deficiencies were filled prior to the return of the AMALs to the MEDLOG.

### Requirement

#### That the MEDLOG:

- Receive the supplies and equipment from the using unit
- Conduct a joint return LTI for all materiel
- Capture the return transactions and information and record in DMLSS
- Transfer pending requisitions for replenishment from the MEU to the MEDLOG, change ship to and receiving unit, and capture required financial data
- Identify and manage condition of accepted returned materiel in accordance with the PMI's inventory plan
- Dispose, reconstitute and return to inventory, or return to the Service Provider

#### That the Service Provider:

- Receive the supplies and equipment from the MEDLOG
- Provide the MEDLOG returned materiel information electronically in a format and application that interfaces with DMLSS
- Identify and manage condition of accepted returned materiel in accordance with the PMI's inventory plan
- Dispose, reconstitute and return to inventory



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# Operational Scenario 4: MAKE through DELIVER of Exercise Block

## Scenario

A Battalion requests Class VIII support for a training exercise. AMALs 635 and 636 have been identified as part of the Class VIII requirement. These AMALs are authorized and stocked at both the MEDLOG and at the service provider.

The MEDLOG's on hand allowance is adequate to provide the required support and is held for the specific purpose of supporting training exercises. The MEDLOG has the responsibility to receive, issue, provide care in store (replenishment, shelf life management, maintenance, etc) for this material. The training exercise lasts 45 days.

The MEDLOG receives the demand for the AMALs and initiates planning to meet the demand. Inventory is adequate to provide the requested AMALs; however there are deficiencies in the contents of the 636 due to:

- 1) Items which will become outdated during the deployment which must be replaced, and
- 2) Consumable components ( medicines and pharmaceuticals, including narcotics) which are not in stock at the MEDLOG

Additionally there are components of the 635 which will require LTI, PM, calibration and sterilization prior to deployment.

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## **Concept Pilot Outcomes**

- **Make certain that new approach does not negatively impact MedLogCo or deploying units**
- **Exercise the Concept of Operations by physically executing scenarios which stress the supply chain**
- **Determine which supply chain management functions are most appropriate to commercial management (e.g., preventive maintenance, shelf-life management, etc.)**
- **Define stocking levels and locations for inventory at USMC locations**
- **Establish performance metrics and baseline expectations for use in subsequent service level agreement (SLA)**
- **Identify policy changes required to support enterprise management**
- **Use knowledge gained to refine requirements for roll-out in FY14**



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