



Purpose

To describe the Maintenance Transformation (Joint) concept – the Army's move to a two level maintenance system



Terminal Learning Objective

Action: Describe the Maintenance Transformation (Joint) (MT[J]) and how it works in both the Legacy and Modular Army.

Condition: Given no prior knowledge of the Maintenance Transformation or Future Combat Systems.

Standard: Identify the current maintenance system, the MT (J) and how it operates in both Legacy and Modular units.

Four Level Maintenance System Characteristics

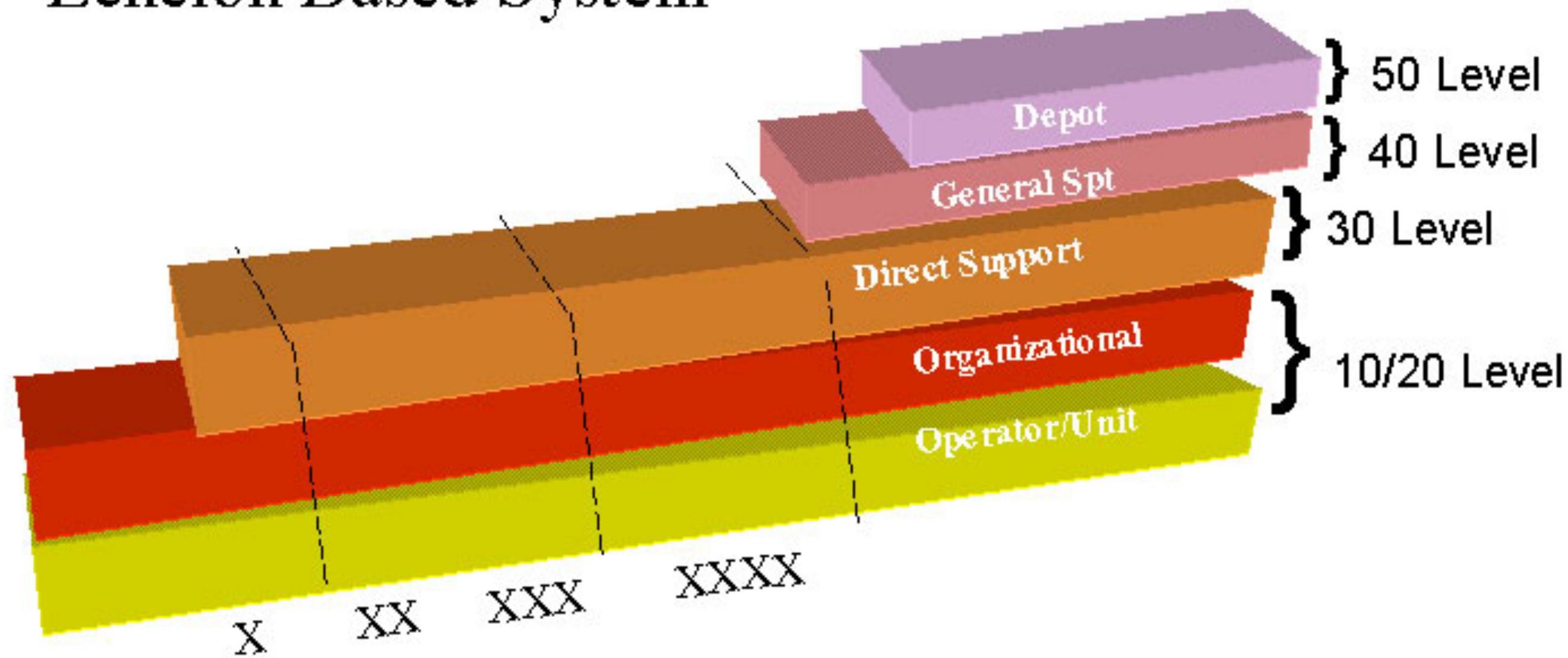


- Echeloned maintenance
- Large logistics footprint
- Reliant on evacuation systems
- Built-in overhead burden
- Requires own maintenance support
- Not a 21st century concept



Current Maintenance System

Echelon Based System

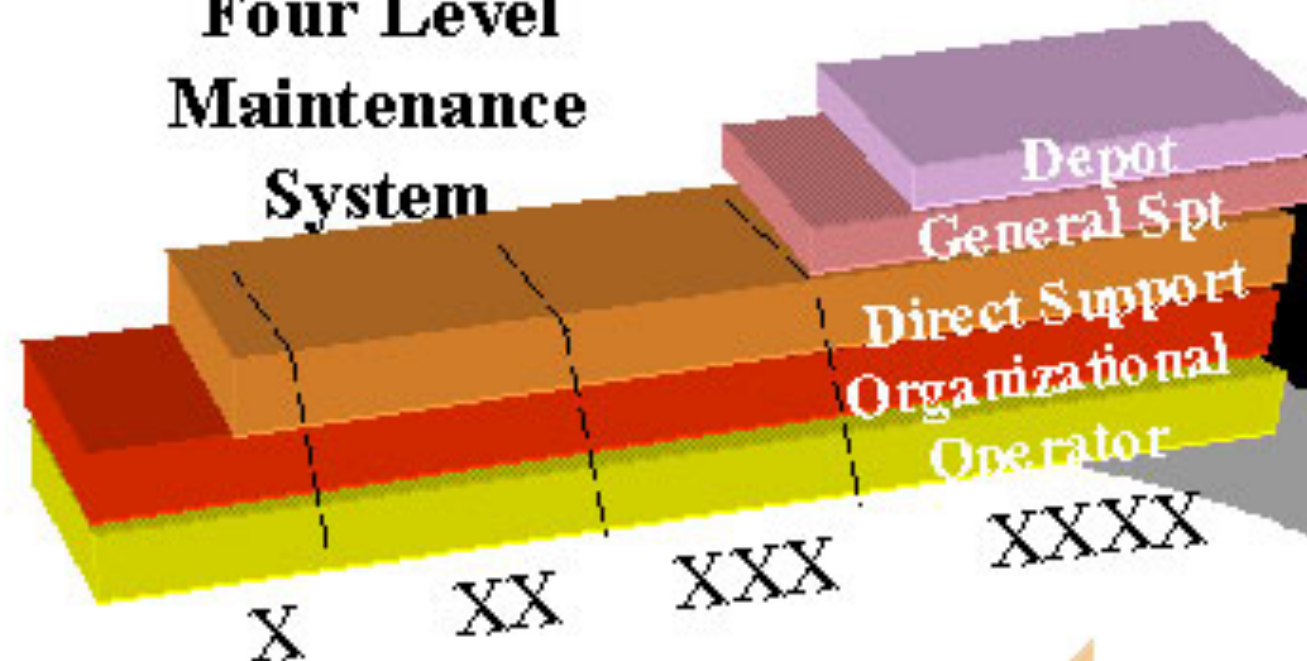


Army Maintenance Transformation



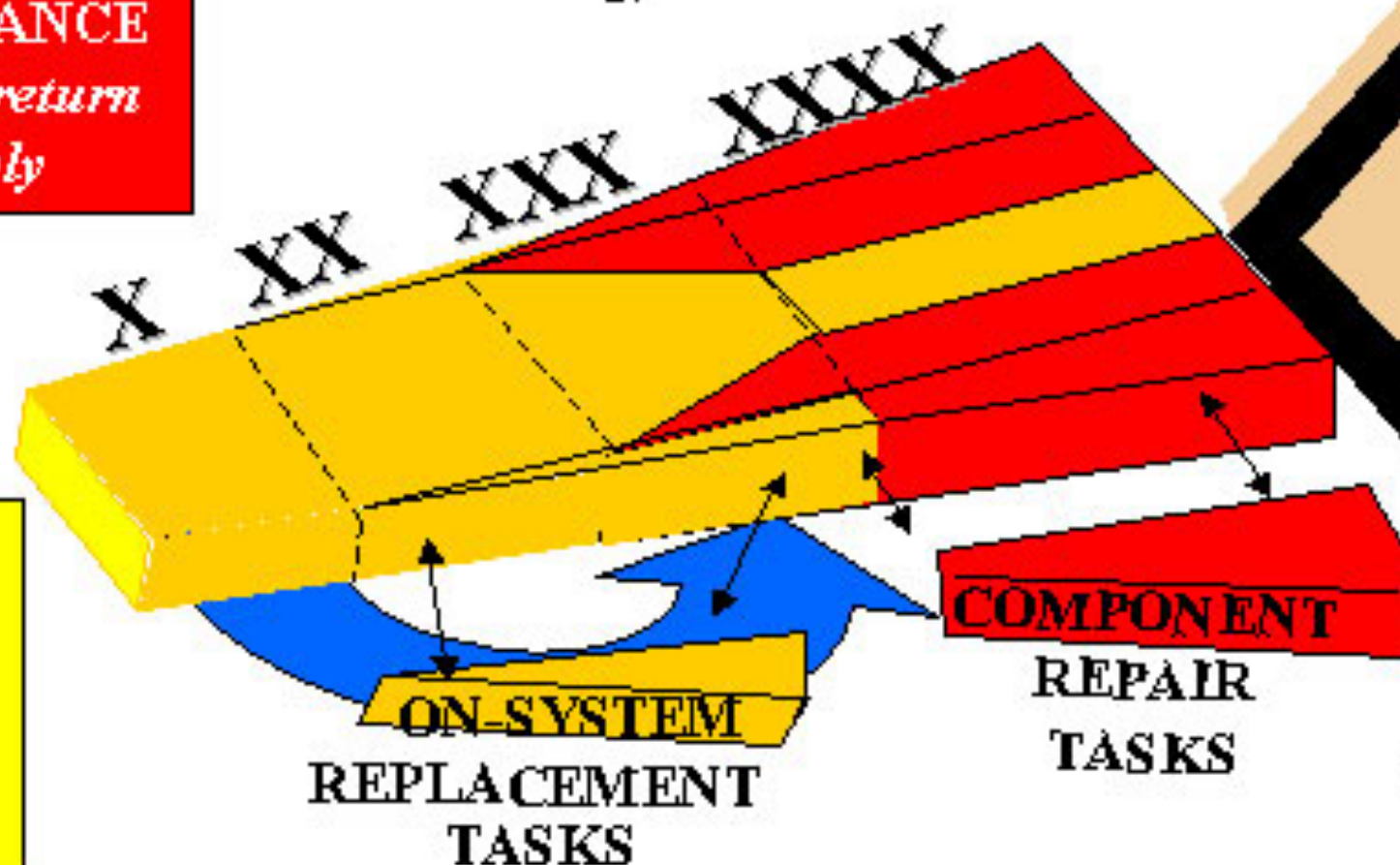
Vision

Four Level Maintenance System



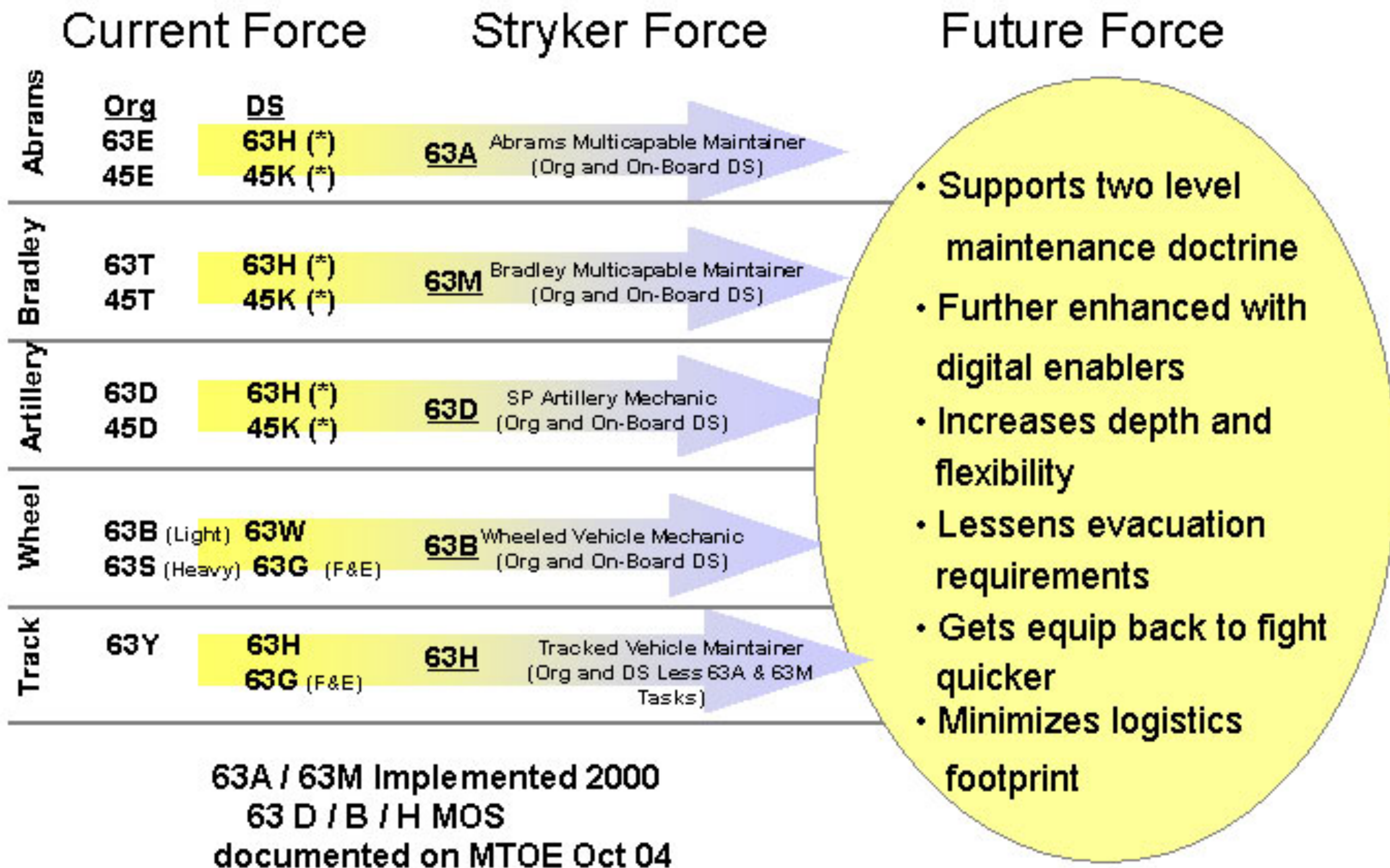
SUSTAINMENT=
OFF-SYSTEM
MAINTENANCE
Repair and return
to Supply

FIELD=
ON-SYSTEM
MAINTENANCE
Repair and return
to customer



Two Level Maintenance System

Soldier Transformation / Ordnance



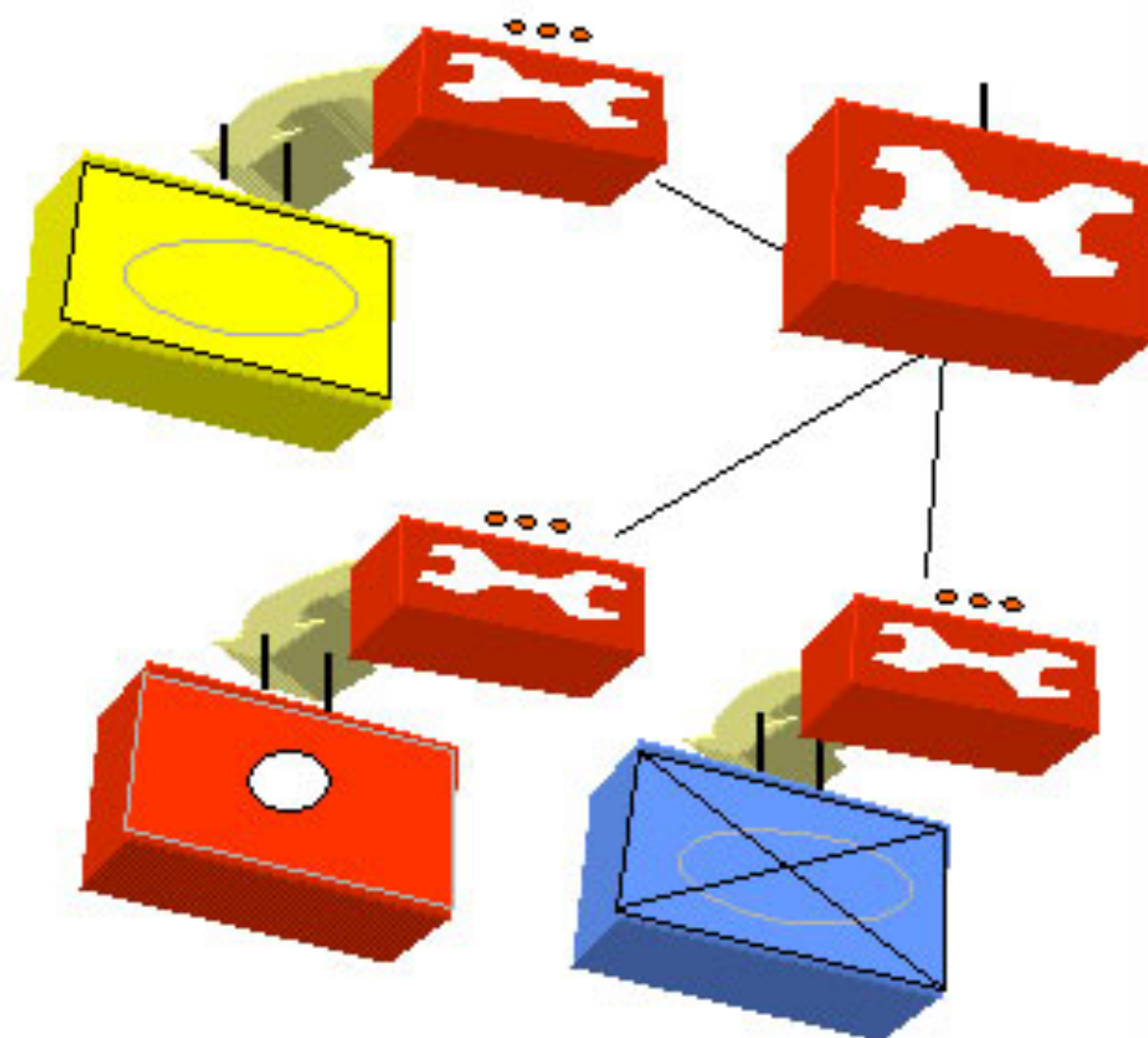


Steps in Transition to TLM

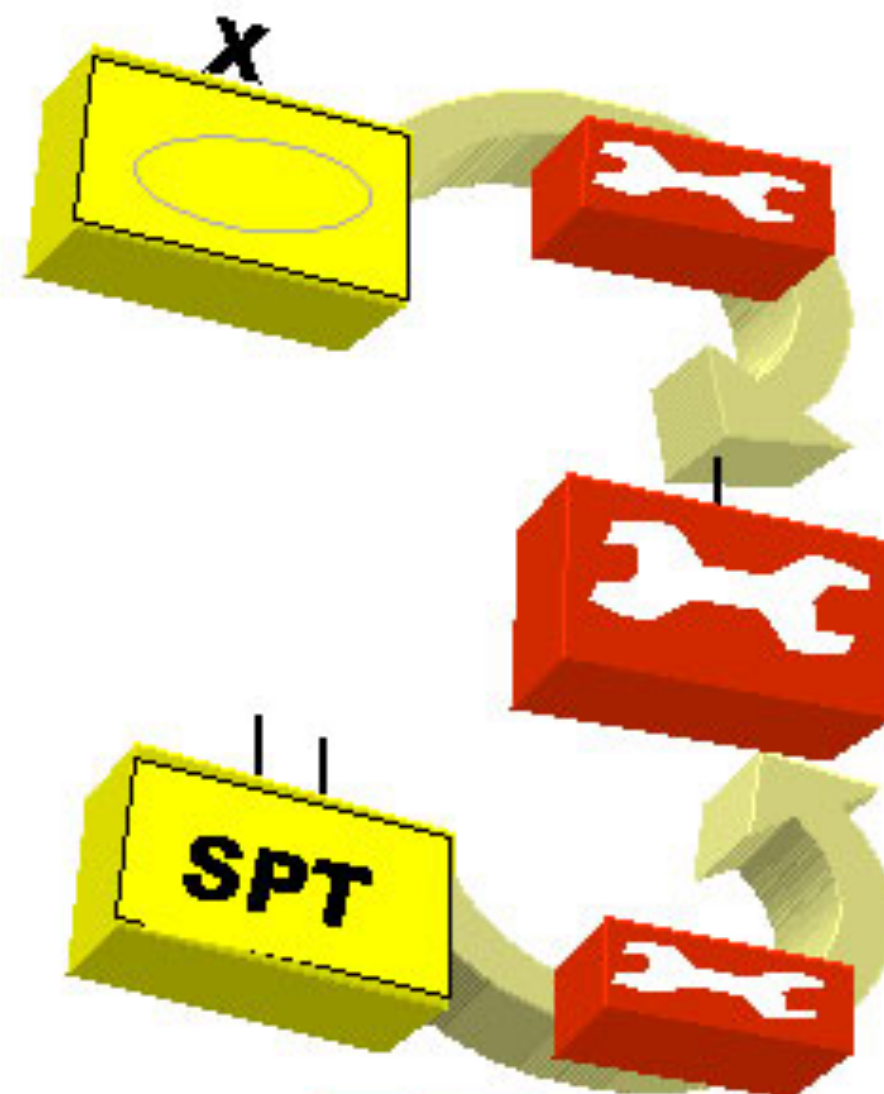
- Embed MST / CRT with maneuver unit
- Consolidate Field Maintenance activities for units that co-locate on the battlefield
- Transfer Sustainment Maintenance functions to Component Repair Companies
- Transfer Class IX to QM / Distribution Units

Army Maintenance Transformation

Legacy Units



Embed some of the support workforce in the maneuver unit



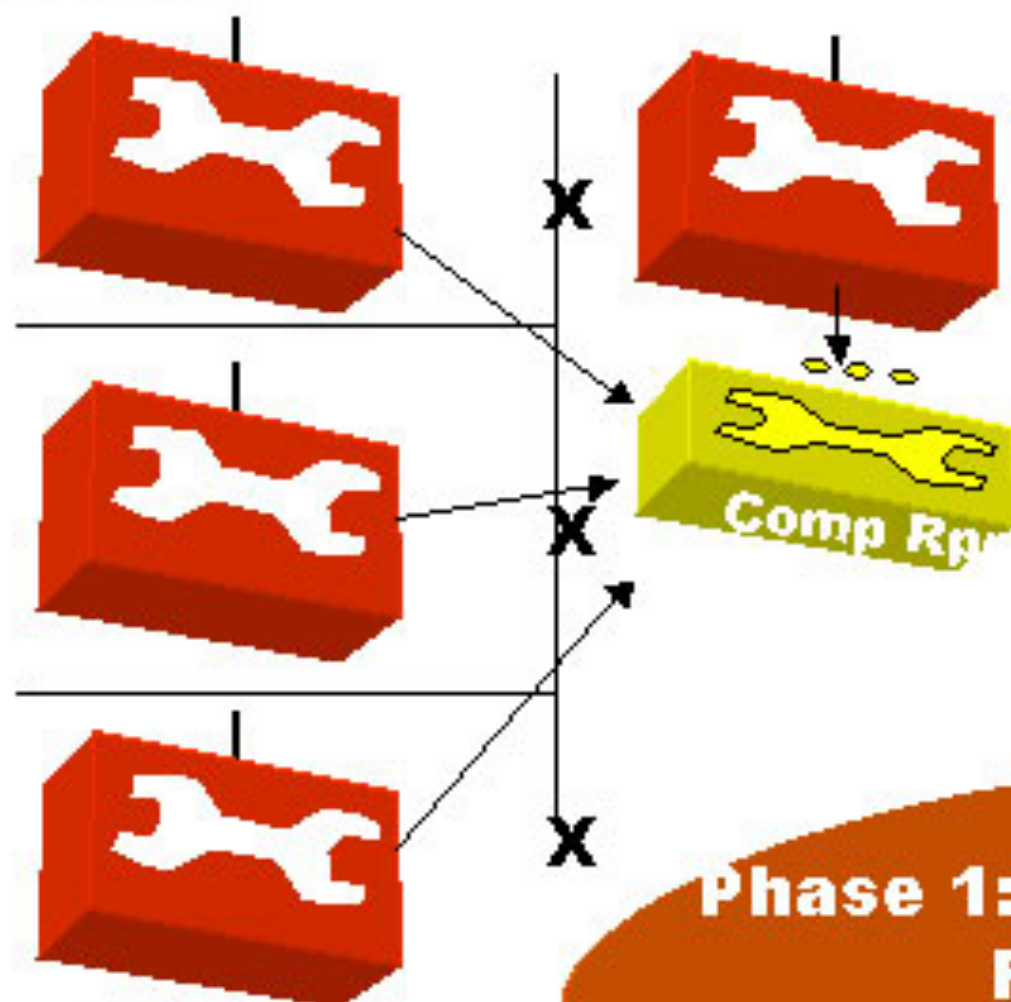
Consolidate Field maintenance Activities in maintenance Units that co-locate

Army Maintenance Transformation

Legacy Units (Component Repair)

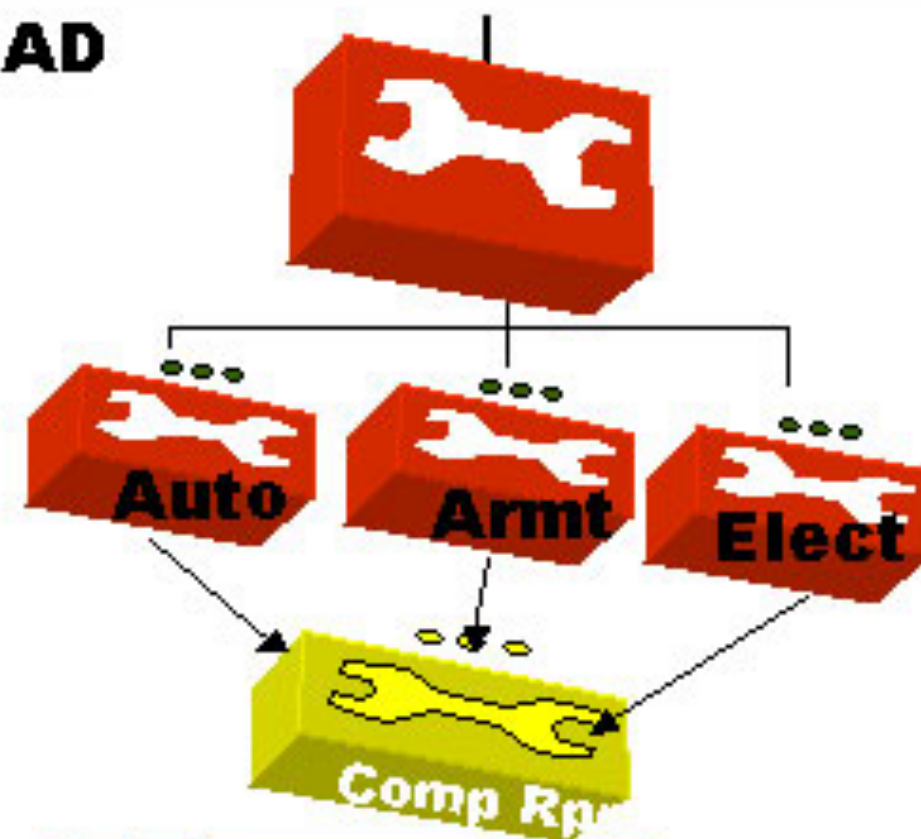


Division



**Assign Component
Repair Plt to
Div Main**

EAD



**Phase 1: Consolidate all legacy component
Repair into a single platoon.
Phase 2: Transition repair capability
To the NMP.**

Typical Two Level Maintenance Actions



Field Maintenance Actions

- On-System
- Plug and Play Components
- Fewer Actions Requiring Tools
- Crew Level Maintenance Tasks
- Typical **Replace** Tasks:

Replace Starter

Replace Winch

Replace Electronic Module

Replace Geared Hubs

Replace Engine

Replace Transmission



Sustainment Maintenance Actions

- Off-System
- Disassemble / Assemble
- Repair to National Standard
- Requires Wide Variety of Tools
- Typical **Repair** Tasks:

Repair Starter

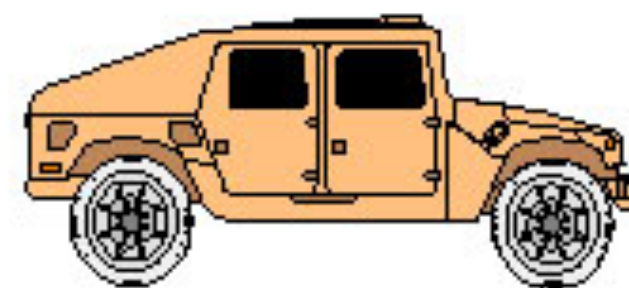
Repair Winch

Repair Electronic Module

Repair Geared Hubs

Repair Engine

Repair Transmission





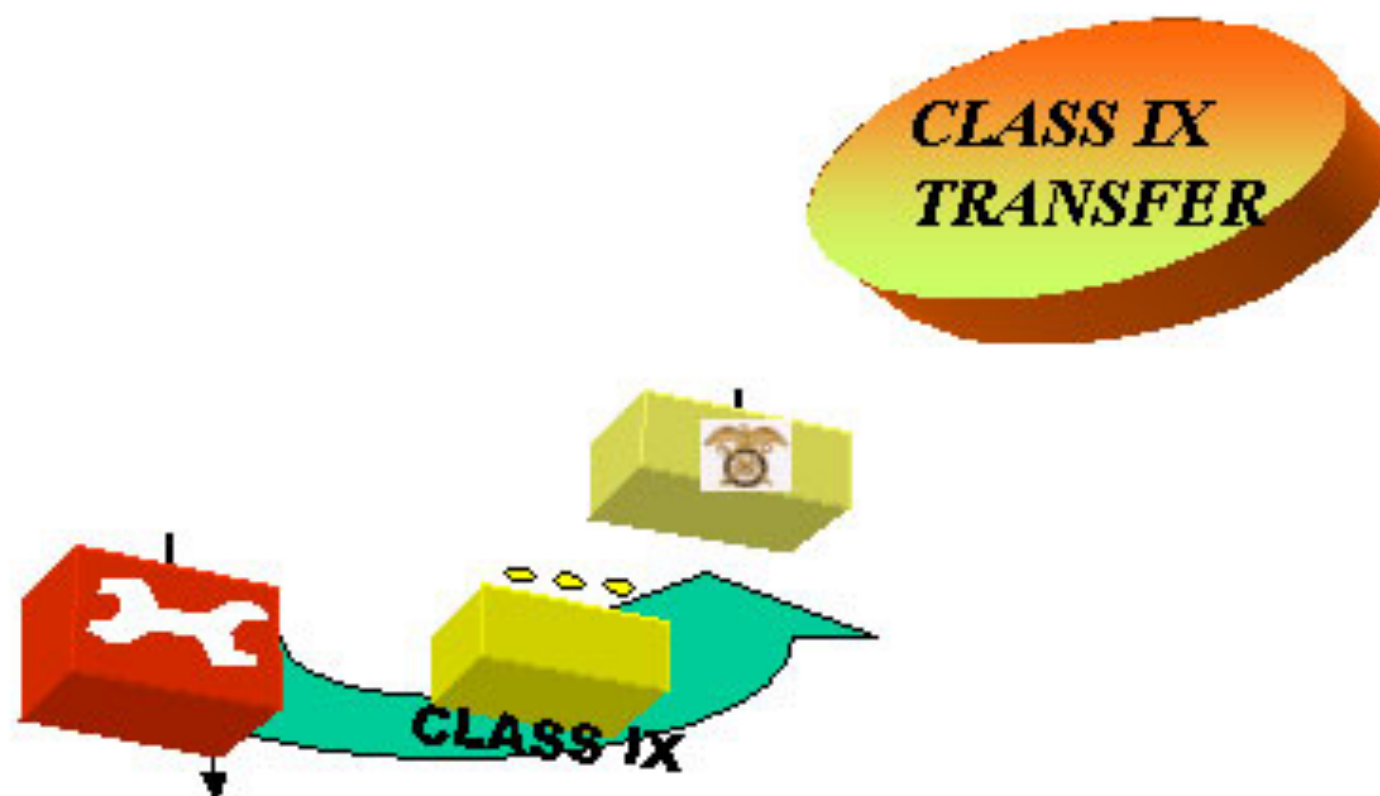
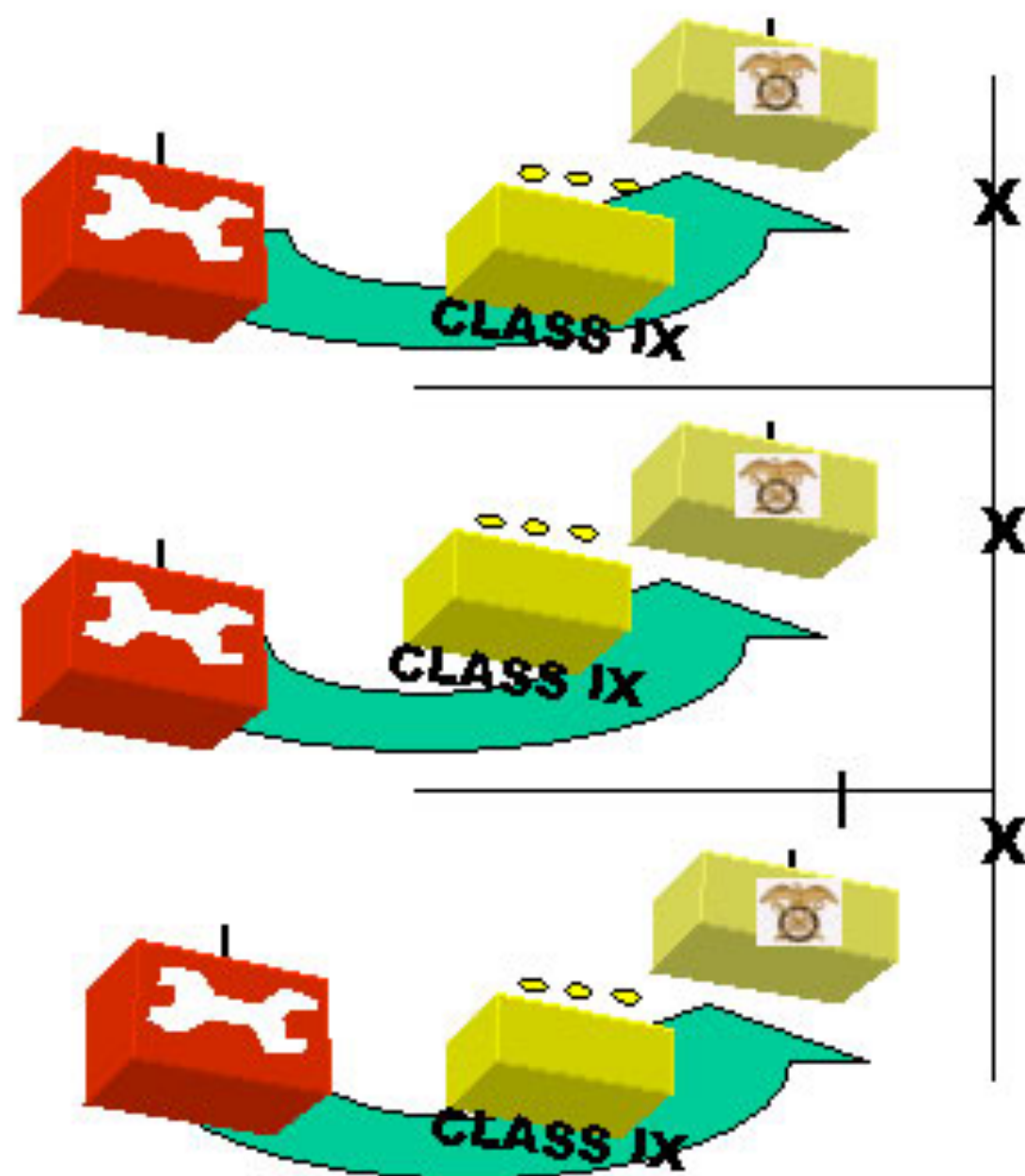
Benefits of a Two-Level System

- Less Echelons
- Eliminates Duplication of Work
- Decreases Repair Cycle Time/Increases Readiness
- Reduced Logistics Footprint
- Increased Flexibility and Depth of Capabilities

Transformation Changes to Enhance Distribution Support



Division



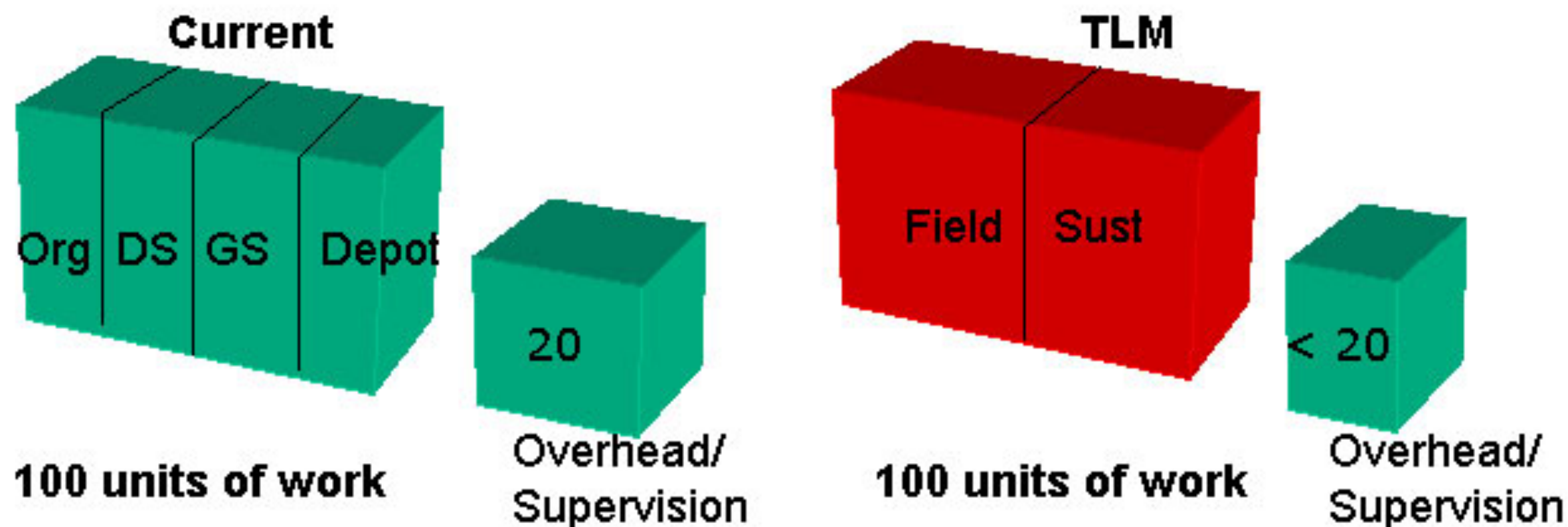
**CLASS IX
TRANSFER**

**Class IX Transfer
Incorporated Into
FXXI, Stryker BDE,
And Objective Force
Designs**

Transition to Two Levels of Maintenance



Legacy/Current items of equipment



Maintenance Transformation

Reliability
Maintainability
Sustainability

Review and Update MAC



REPLACE
REPAIR

UNIT		DS	GS	Depot
C	O	F	H	D
X	X	X	X	X
X	X	X	X	X

CURRENT

Transition

FIELD

SUST

Key:
C=Crew
O=Organizational
F=Direct Support
H=General Support
D= Depot

REPLACE
REPAIR

UNIT		DS	GS	Depot
C	O	F	H	D
X	X	X	X	X
			X	X

Future

REPLACE
REPAIR

FIELD		SUST
C	F	D
X	X	X
		X

Two Level Maintenance Concepts/Enablers

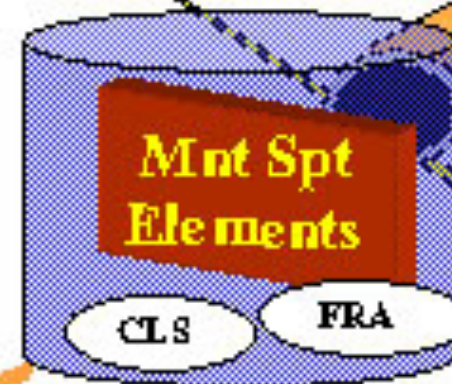


- Anticipatory Logistics
- Modular Organizations
- Digitization
- Vehicle/System Design
- Component Availability

MAINTENANCE TRANSFORMATION IN THE MODULAR FORCE

Sustainment Maintenance =

- End Item and Component Repair
- Component Replacement

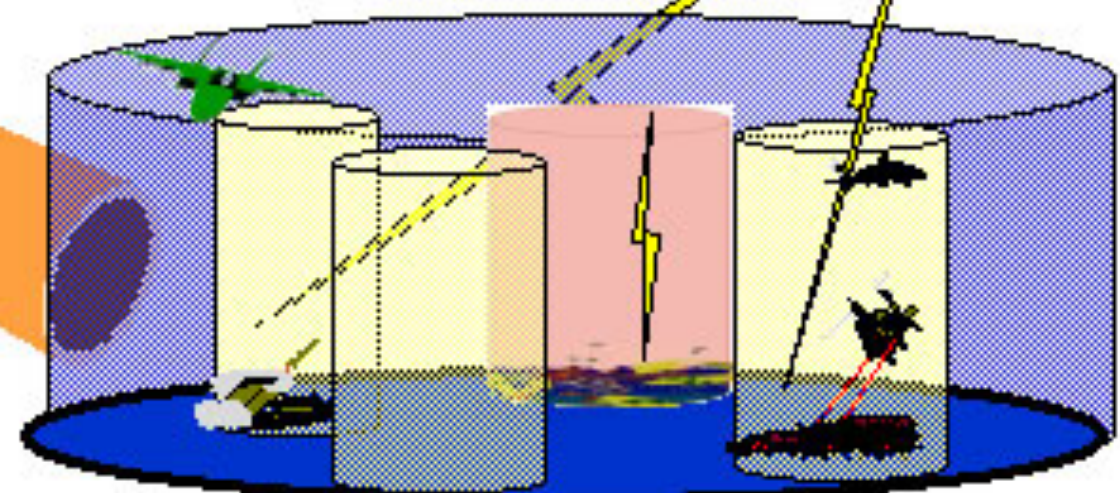


Unit of Employment

Mixture of Field /
Sustainment
Capabilities

Field Maintenance =

- Operator Maintainer
- LRU / component replacement
- BDAR
- Controlled substitution & cannibalization
- Recovery
- Services

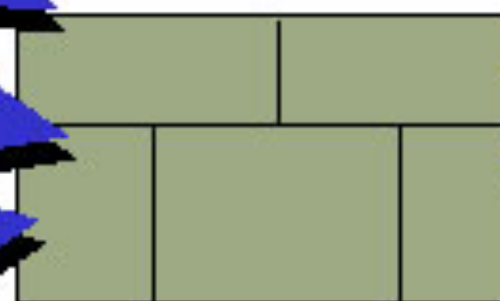
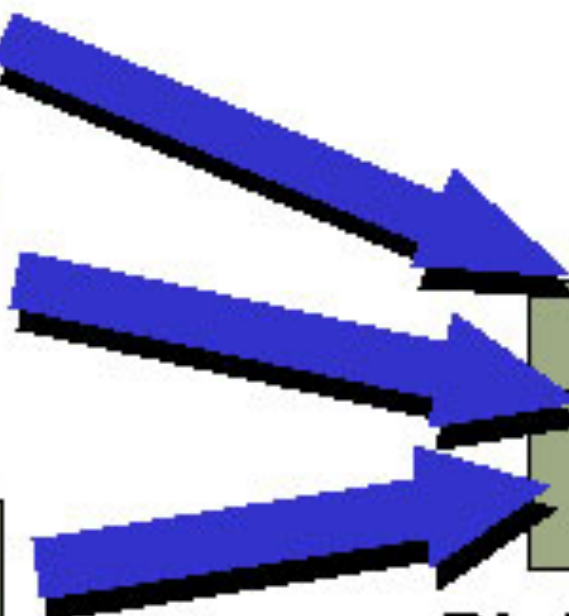
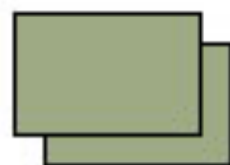
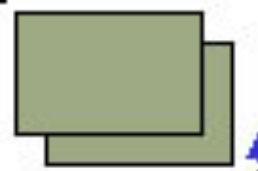


Units of Action = Field Maintenance

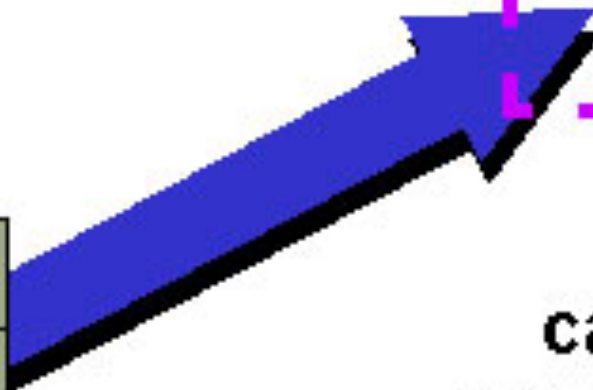
Why Modular?



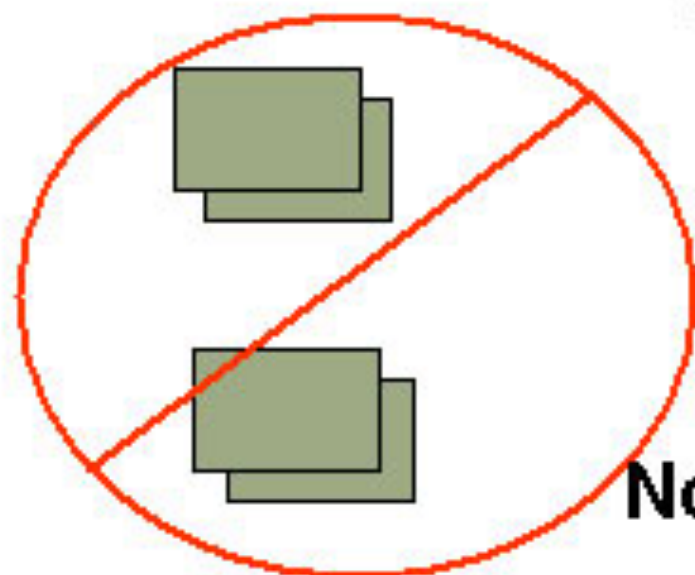
Full menu of capabilities



Right mix of Army capabilities, with the right headquarters to meet the joint commanders requirements

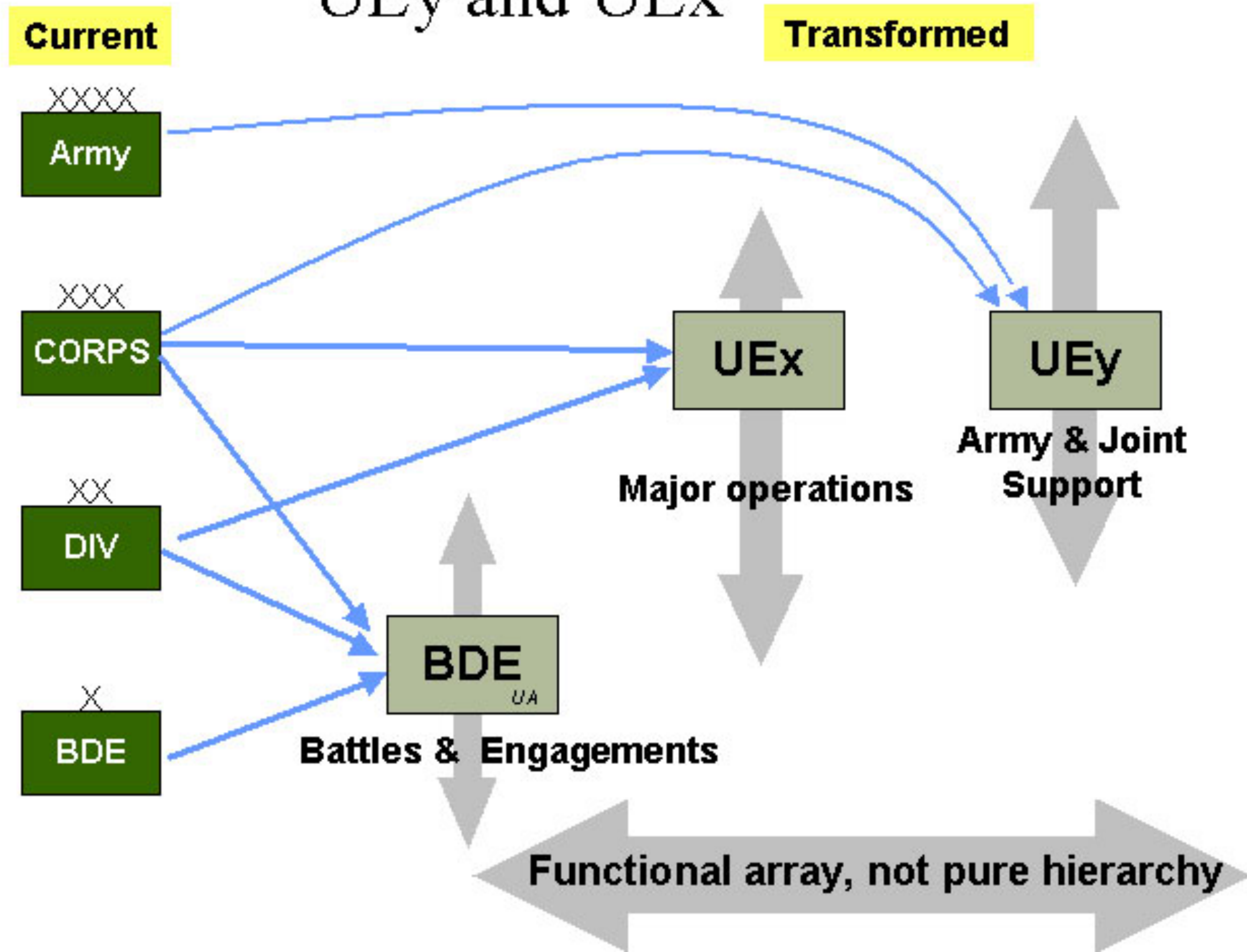


Army capabilities required by the joint force commander

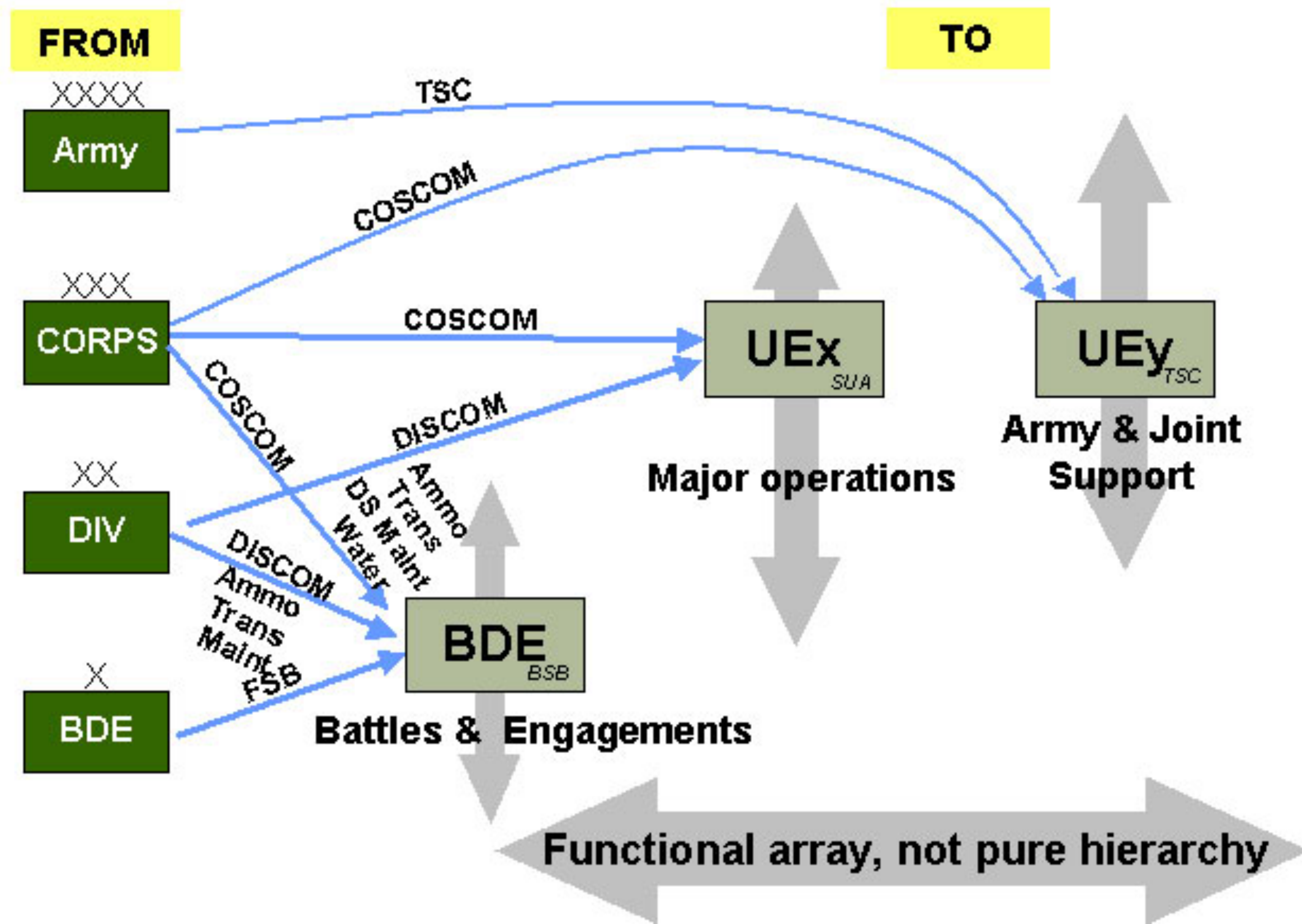


Not required and not deployed

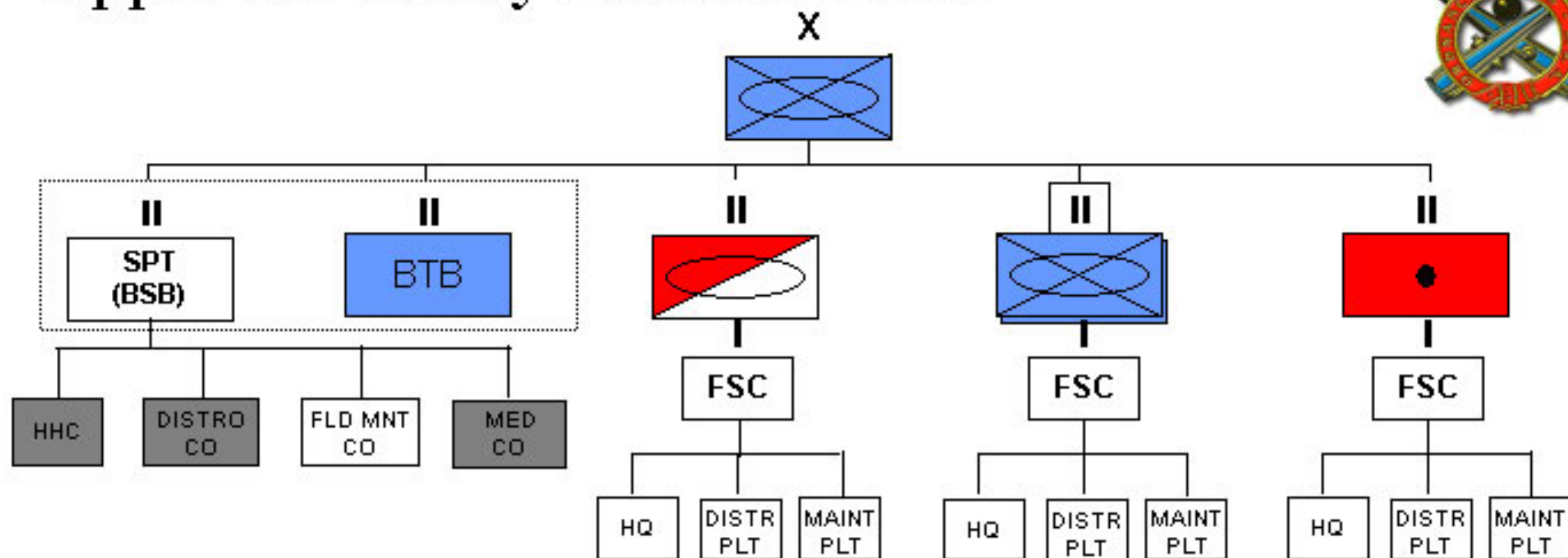
Levels of Command – Transformed UEy and UEx



UEy and UEx CSS



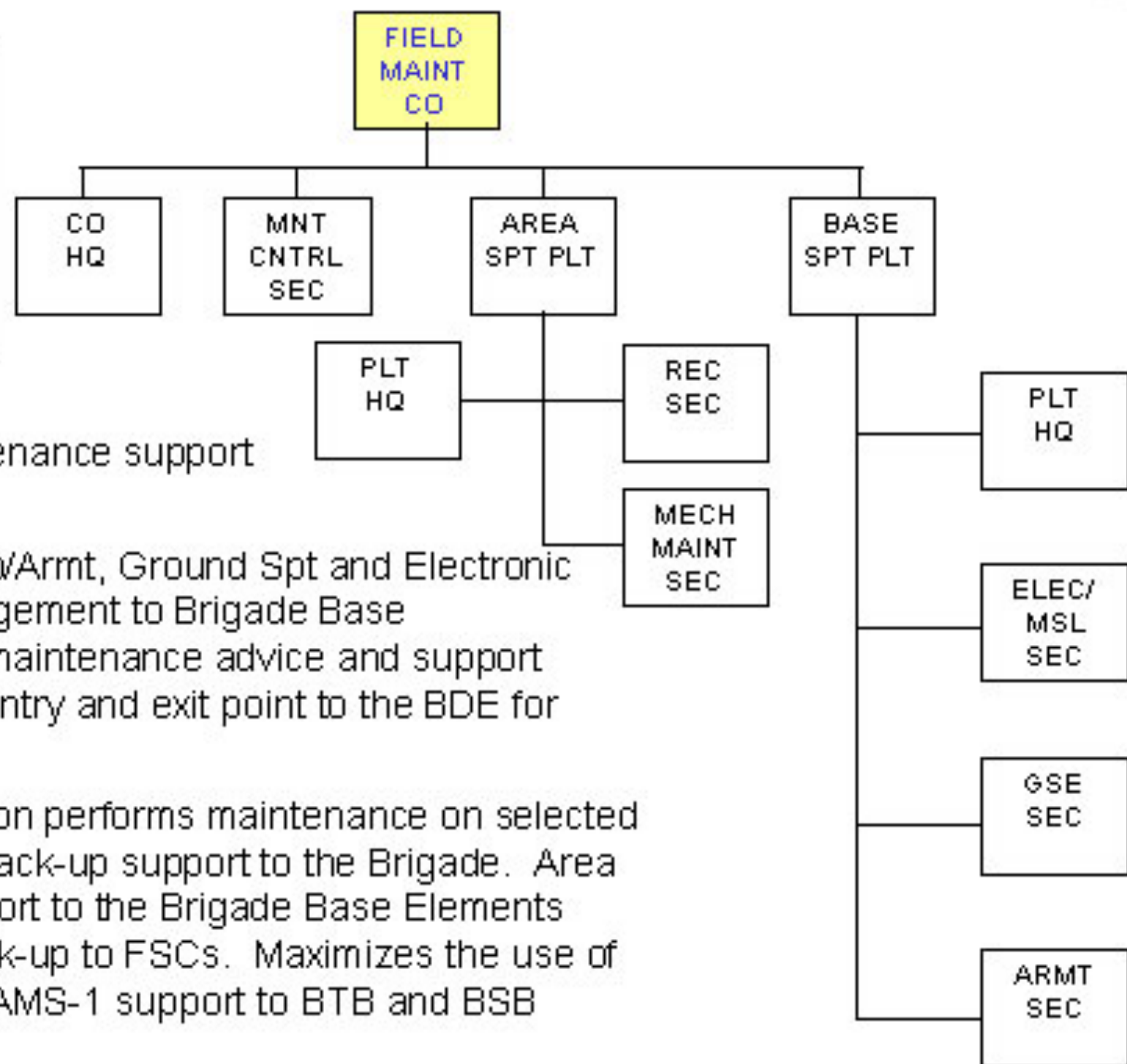
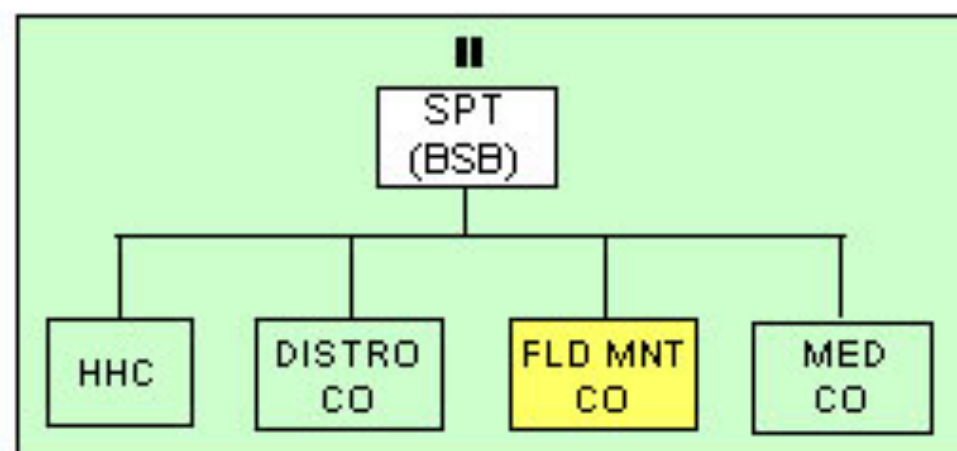
Approved Heavy BDE Structure



- ✓ Embed MST inside Maneuver Unit Create FSC's
- ✓ Embed Radio and Special Device repair into maneuver units
- ✓ Welding support in maneuver units
- ✓ Consolidate Maintenance for BTB and BSB in Field Maintenance Company (FMC)
- ✓ Assign Class IX Responsibility to QM (Supply) / Distribution (Transportation) Units

Brigade Support Battalion (BSB)

Field Maintenance Company (FMC)



MISSION: Provide Field Level Maintenance support to a Brigade Unit of Action

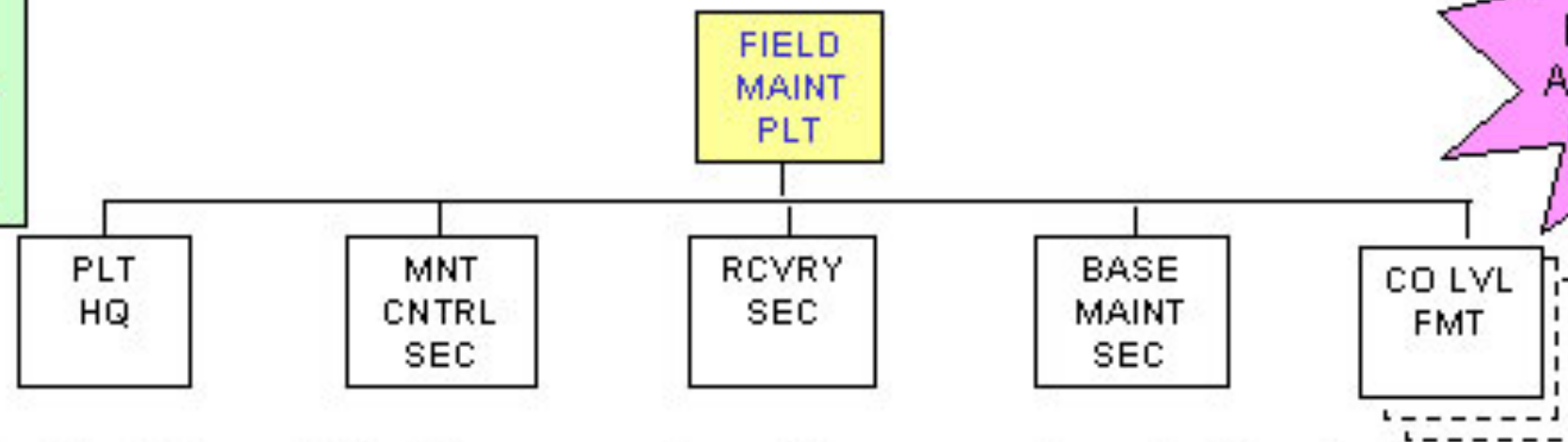
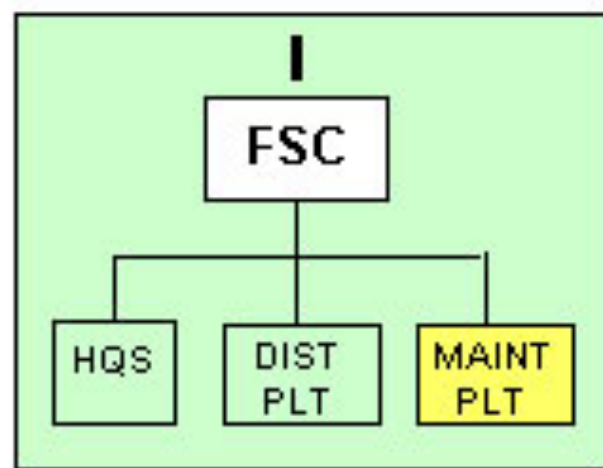
FUNCTIONS: Provide recovery, Auto/Armt, Ground Spt and Electronic maintenance and maintenance management to Brigade Base Elements (HQ, BSB, BTB). Provide maintenance advice and support to the brigade. Serve as the central entry and exit point to the BDE for low density equipment.

CAPABILITIES: Base Support Platoon performs maintenance on selected (low density) equipment and limited back-up support to the Brigade. Area Support Platoon performs direct support to the Brigade Base Elements (Mech MNT) in addition to limited back-up to FSCs. Maximizes the use of Combat spares. Provides ULLS-G/SAMS-1 support to BTB and BSB companies.

LIMITATIONS/RISK: Dependent on distribution delivery/asset visibility and connectivity. Low density communications MOS's reliant on CL VII floats. Limited redundant or back-up capabilities (reliant on Sustainment Support Unit of Action (SUA)).

Forward Support Company (FSC)

Field Maintenance Platoon



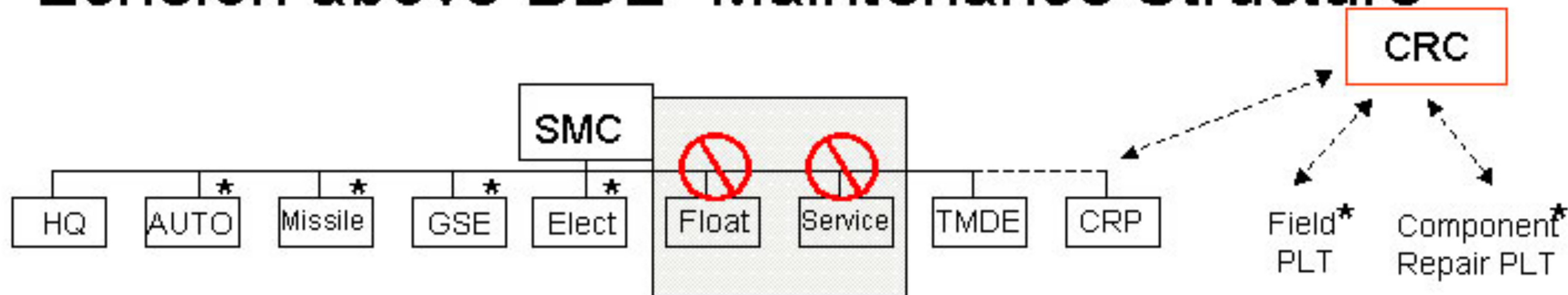
MISSION: Provide Field Level Maintenance to a Maneuver/combat battalion

FUNCTIONS: Provide recovery, Auto/Armt, Ground Spt and Electronic/MSL maintenance and maintenance management to the battalion base elements (HQ, FSC) and company level Field Maintenance Teams (FMT).

CAPABILITIES: FMTs to company level for Automotive/Tracked vehicle maintenance support. Base Field Maintenance Section for area support (BN HQ and FSC) in addition to limited low density equipment (ELEC, MSL, GSE, and ARMT) support to the FMTs. Allows attachment of company level assets to other BN's for limited durations. Maximizes LRU's replacement, Combat Spares (PLL, Bench/Shop Stock) and BDAR. Maintenance management functions performed by SAMS-1 and ULLS-G.

LIMITATIONS/RISK: Dependent on distribution delivery/asset visibility and connectivity. Low density communication equipment reliant on CL VII floats. No redundant or back-up capabilities (dependant on Sustainment Support Unit of Action (SUA)) exist.

Echelon above BDE Maintenance Structure

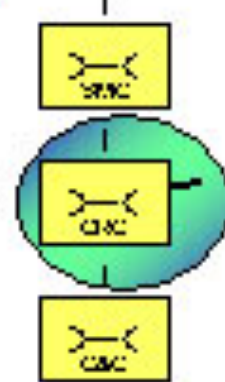


- **Support Maintenance Companies (SMC) provide Field Level Support for UE and UEy units**
 - Provide Mission Staging Operations
 - Conduct UEx/UEy Area field maintenance Support
 - Supports field level Theatre Opening packages (APS, Prepo)
 - Capability to attach modules (platoons/sections/teams) to CRCs
- **Component Repair Companies (CRC) provide Sustainment Level Support for UEx and UEy**
 - Provides repair and return to the Supply system
 - Operates in conjunction with a Supply Support Activity (SSA)
 - Can attach platoons/sections/teams to SMC or other maintenance units
 - Integrates maintenance repair activities with AMC
- **Platoons(*) contain a HQs sections, inspection section, and maintenance section.**
- **Platoons are 100% mobile.**
- **Platoon inspectors attach to shop office section embedded in the company headquarters.**
- **Platoons may be augmented with modules to add increased capability based on METT-TC.**
- **10% of the SMC strength can be civilians / contractors.**

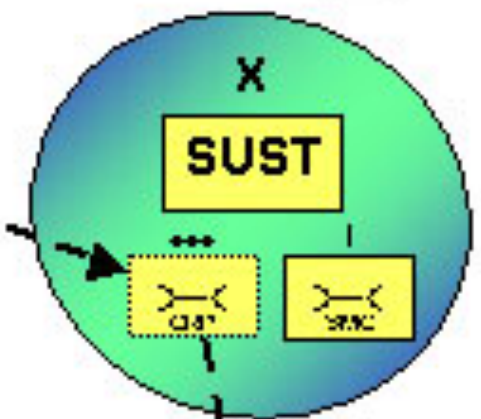
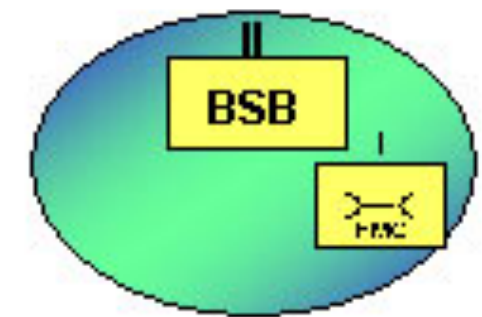
TO MODULAR - FIX

CREATED
Self-Reliant
BDE Field
Maintenance

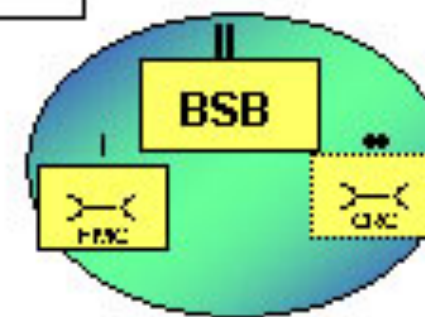
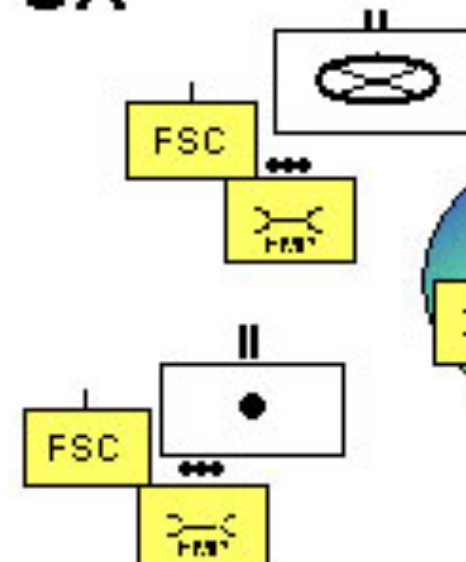
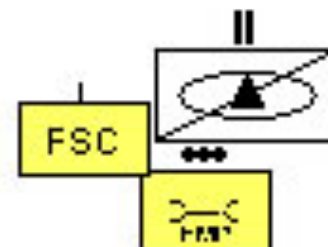
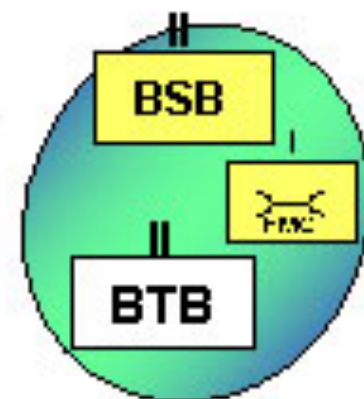
UEy
Sustainment
Base



UEx



UA

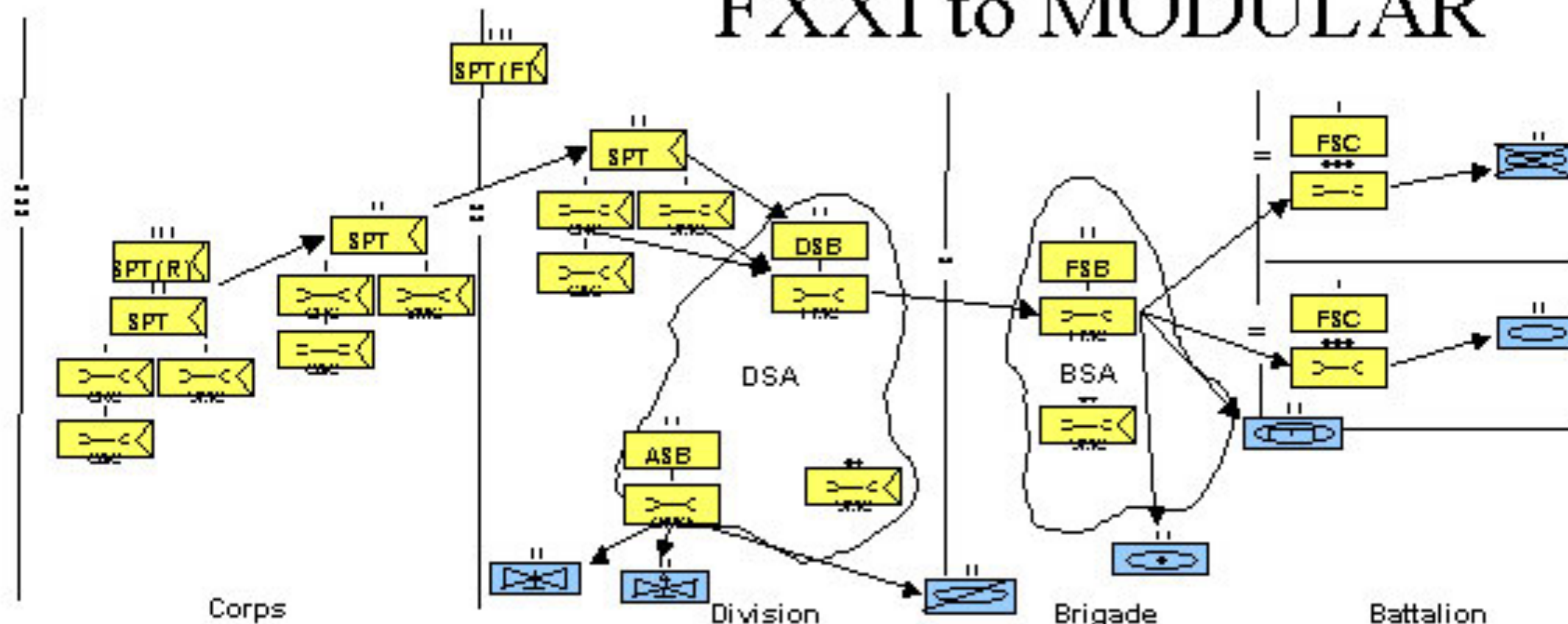


- Retains FXXI Forward Support Company design with Field Maintenance Platoons (all battalions)
- Modular Maintenance Teams Support cross attachment of maneuver companies
- Brigade Support Battalions have greater self-sufficiency
- Component repair is moved outside the UEx area
- Component Repair Companies, Platoons or Teams can be attached forward to the Bde AO based on METT-TC

FXXI to MODULAR

FROM

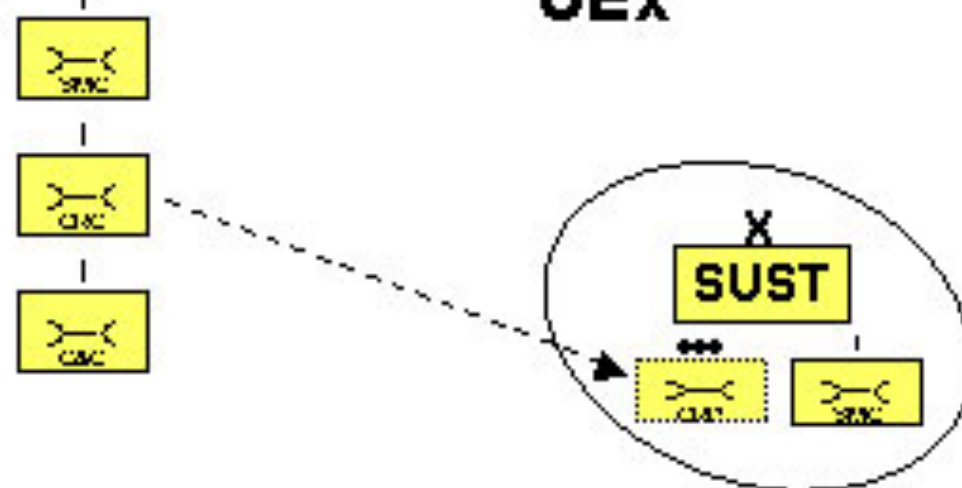
FXXI



TO

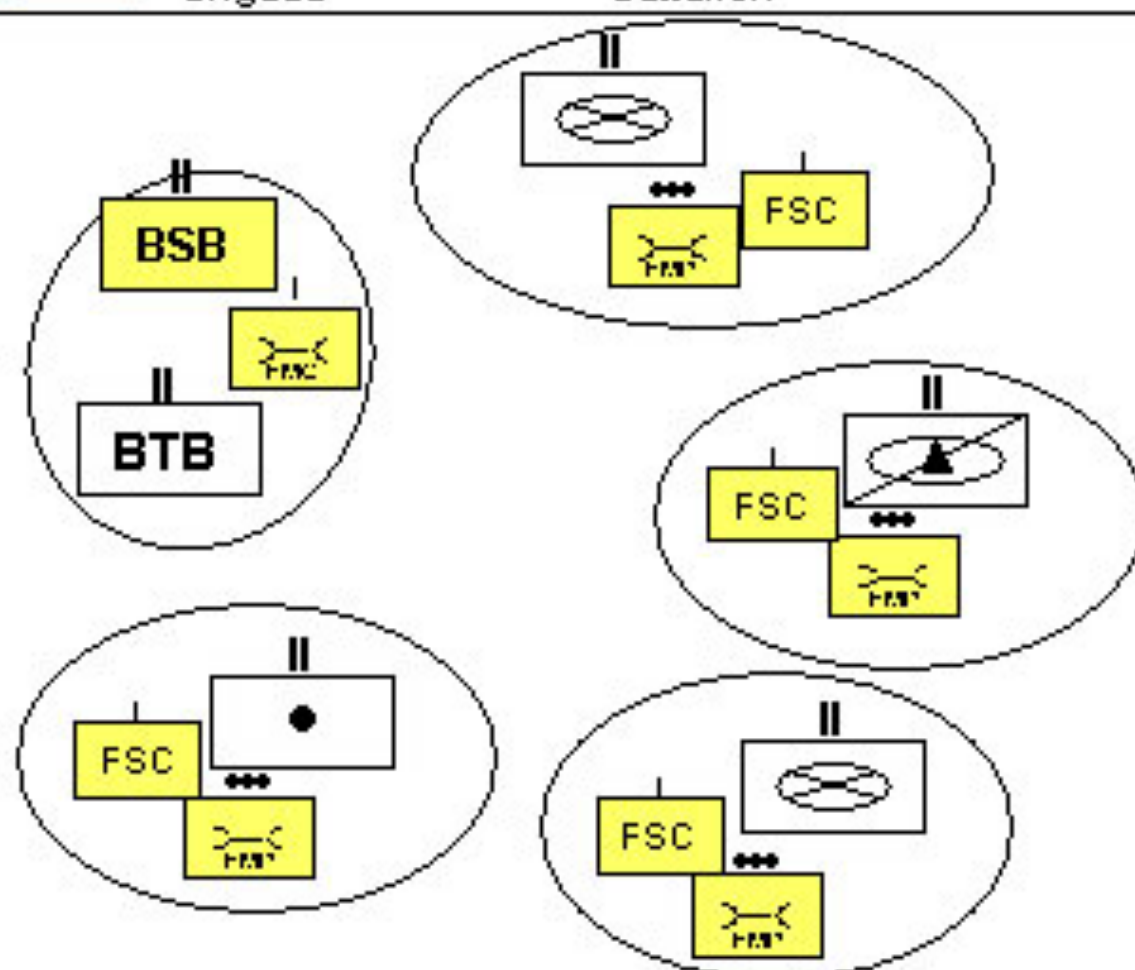
UEy

UEx



Concept

- Retains FXXI Forward Support Company Design with Field Maintenance Platoons (all battalions)
- Modular Maintenance Teams Support Cross Attachment of Maneuver Companies
- Component Repair is Moved Outside the Maneuver BDE Area



AR 750-1 Army Materiel Maintenance Policy



- http://www.army.mil/usapa/epubs/750_Series_Collection_1.html
- Pertains to Active Army, Army National Guard and US Army Reserve
- Implements The Army Maintenance Transformation (Two Levels of Maintenance)

The Ordnance Corps...



**COMMITTED
TO ENABLING
THE FORCE!**