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PATRIOT OVERVIEW (U)

For PEO Web Site

August 2013

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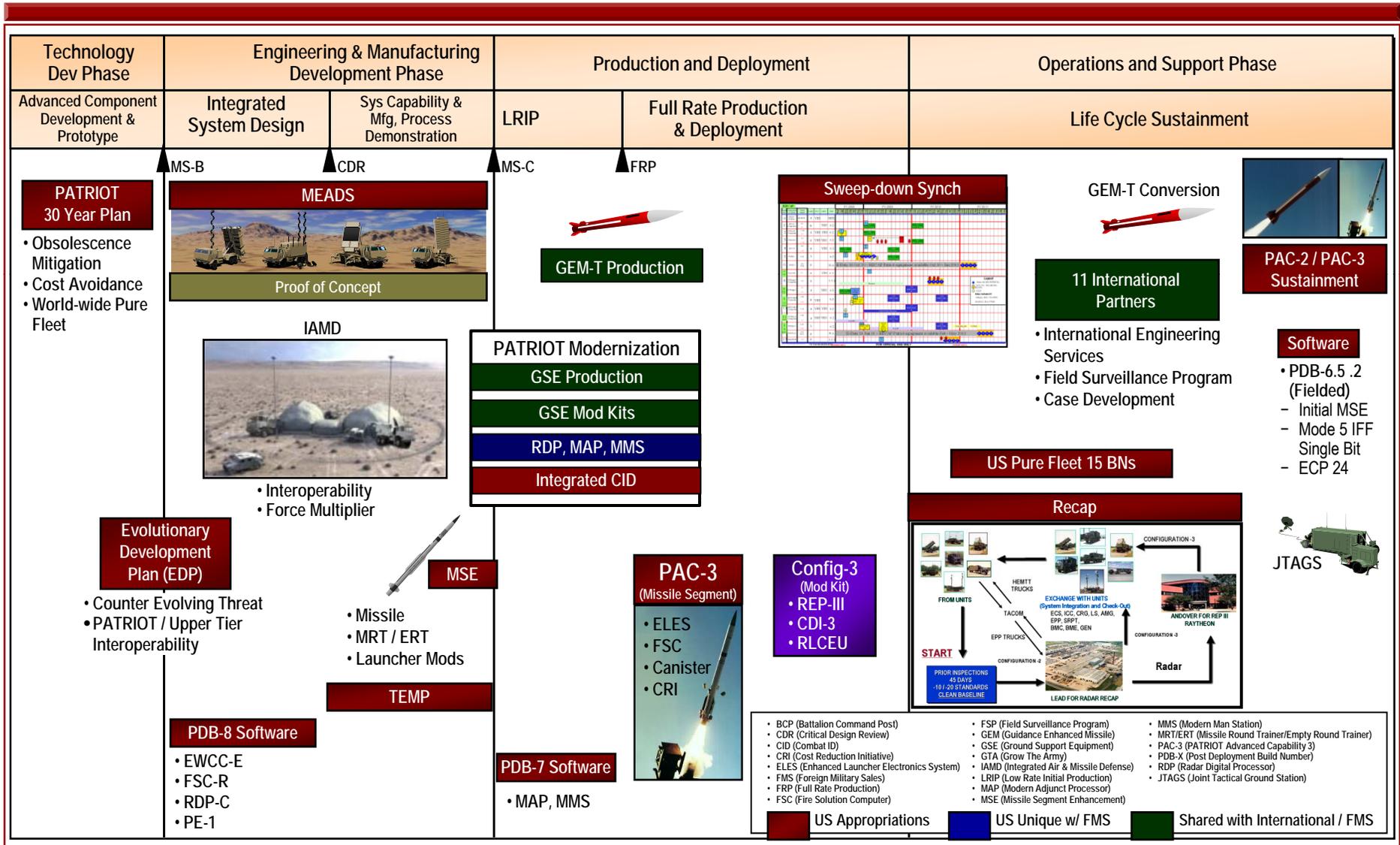
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LOWER TIER PROGRAM OVERVIEW (U)



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PATRIOT BATTALION OVERVIEW (U)



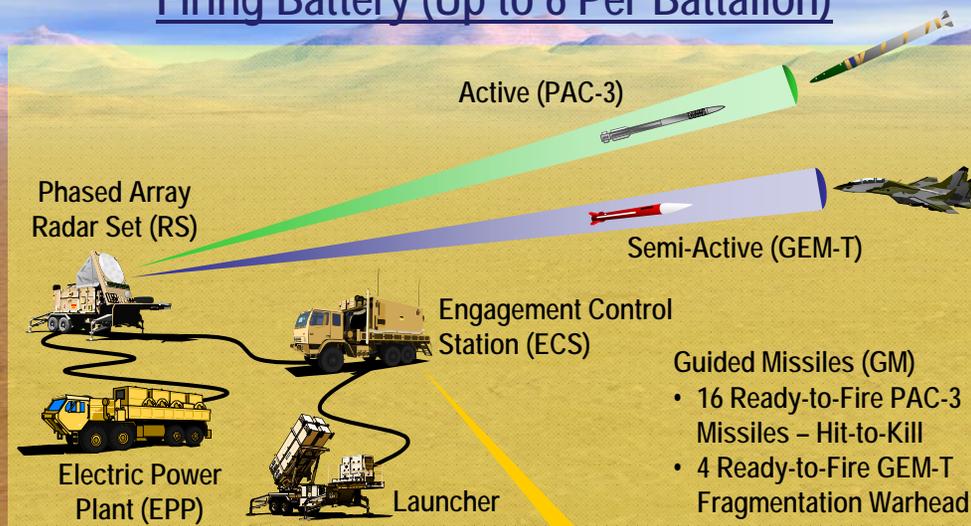
Battalion Headquarters

Tactical Command
Station (TCS)



Information and
Coordination Central
(ICC)

Firing Battery (Up to 6 Per Battalion)



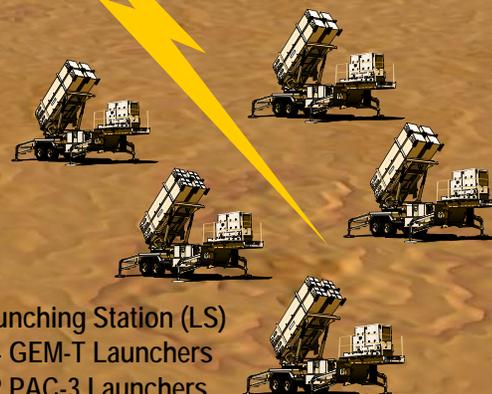
Communications
Relay Group
(CRG)



Antenna Mast
Group (AMG)



Battalion Maintenance
Equipment (BME)



Launching Station (LS)

- 4 GEM-T Launchers
- 2 PAC-3 Launchers

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PATRIOT MISSILE & LAUNCHER INVENTORY(U)



Anti-Tactical Missile (ATM) (PAC-2)

Effects

- TBM HE warhead kills against threats



1990

Guidance Enhancement Missile (GEM)

Effects

- Kills against more stressing threats
- Lower altitude intercepts



1995

PAC-3 Missile (Initial Production)

Effects

- Improved anti-TBM performance
- Robust performance against air breathing threats
- Robust cruise missile defense



1999

GEM Upgrade

Effects

- Improved TBM HE warhead kill vs more stressing threats



2000

PAC-3 Missile (Cost Reduction Initiative)

Effects

- Reduction of missile cost
- C & X band uplink / down link capability
- Improved reliability
- Maintains PAC-3 Missile Performance Capability



2004

PAC-3 MSE Missile (Missile Segment Enhancement)

Effects

- Increased Engagement Envelope
- Insensitive Munitions (IM) Improvements

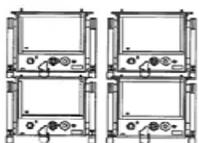


MS C DAB 1QFY14
LRIP CA 2QFY14
FUE 4QFY15

Inventory Upgrade / Recert Production EMD



PAC-2 Full Load (4 msl's)

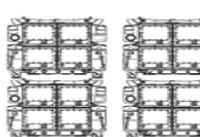


M901

- Currently Fielded
- GEM Only



PAC-3 Full Load (16 msl's; 4 Four-Packs)

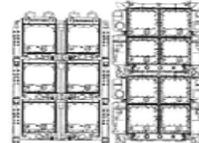


M902

- Currently Fielded
- Incorporates Enhanced Launcher Electronic System (ELES)
- 4- GEM or 16 PAC-3



Mixed Load (14 msl's; 3 Two-Packs & 2 Four-Packs)



M903

- Fielding in conjunction with MSE FUE
- Incorporates ELES & MSE Modifications
- 12 MSE or 4-GEM or 16 PAC-3
- Mix load capable; as depicted

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PATRIOT GROUND SUPPORT SYSTEM (U)



Radar Set
(RS)
(1)



Antenna Mast Group
(AMG)
(1)



Electric Power Plant III
(EPP III)
(1)



PAC-3 Launching Station
(LS)
(2)

Engagement Control Station
(ECS)
(1)



Small Repair Parts Trailer
(SRPT)
(1)



PAC-2 Launching Station
(LS)
(4)



Large Repair Parts Transporter
(LRPT)
(1)



Battery Command Post
(BCP)
(1)



Heavy Expanded
Mobility Tactical Truck
(HEMTT)
(7)



Battery Maintenance Center
(BMC)
(1)

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PATRIOT P3I MODERNIZATION (U)



- Radar Digital Processor Configuration (RDP-C)
 - Supports Full Performance of PAC-3 MSE missile
 - 40% Improvement in reliability of the radar
 - 64 Module Types Replaced with 6
 - 432 Total Modules to 12



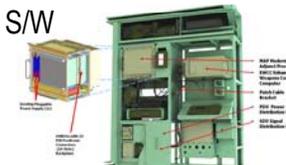
- Modern Man Station (MMS)
 - Enhanced situational awareness & modernized user interface
 - Upgrade Replaces 221 Obsolete Parts in 41 Assemblies



- Enhanced Weapons Control Computer (EWCC)
 - Provides 35-50% additional processing throughput for software enhancements to address the evolving threats
 - Replaces obsolete EWCC assembly, with a single SBC and EWCC emulation SW in the MAP Chassis



- Modern Adjunct Processor (MAP)
 - Platform for future capabilities growth via S/W
 - Facilitates Integration of MMS, RDP
 - Incorporates communications Upgrades



- Missile Segment Enhancement (MSE)
 - Engages Maneuvering and Advanced Threats Early
 - Designed to Provide Increased Maneuverability
 - Single Canister Provides Desired Logistical Flexibility



- Enhanced Launcher Electronic System (ELES)
 - Upgrades Existing legacy Launcher to Fire PAC-3/ MSE
 - Provide operational flexibility



PATRIOT Weapon System Acquisition Strategy Captures the P3I Modernization & Incremental Improvements

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PATRIOT TRAINERS SUPPORTS END TO END TRAINING (U)



PCOFT
Operation Training



(Operational)

(Running on
RT3 Platform)

POMT
Org Maint Trainer

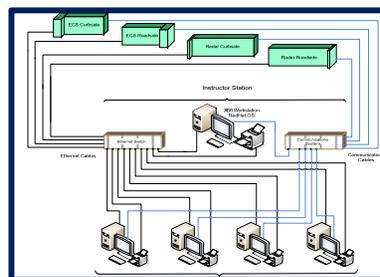


(Maintenance)

PMET
Intermediate Maint Trainer



(Maintenance)



(Running on
RT3 Platform)

PMT

Training Benefits:

- Increased Student Throughput
- Less Reliance on MEIs
- Decrease O&S Costs

Equals =

- Leverages Existing Hardware to Facilitate IM Level Training
- Reduces dependency on tactical equipment

PCOFT – PATRIOT Conduct of Fire Trainer
RT3 – Reconfigurable Table Top Trainer
P-MET – PATRIOT Multi-Echelon Training
POMT – PATRIOT Organizational Maintenance Trainer
PMT – PATRIOT Maintenance Trainer



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