

### Advanced Planning Brief to Industry 01 May 2012 PM-Towed Artillery Systems

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### **PM-TAS Portfolio**



M777A2

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**M111 Improved Position** and Azimuth **Determining System** (IPADS)



M119A2 &



**D30** 



Gun Laying and **Positioning System (GLPS)** 

Digitization

M198

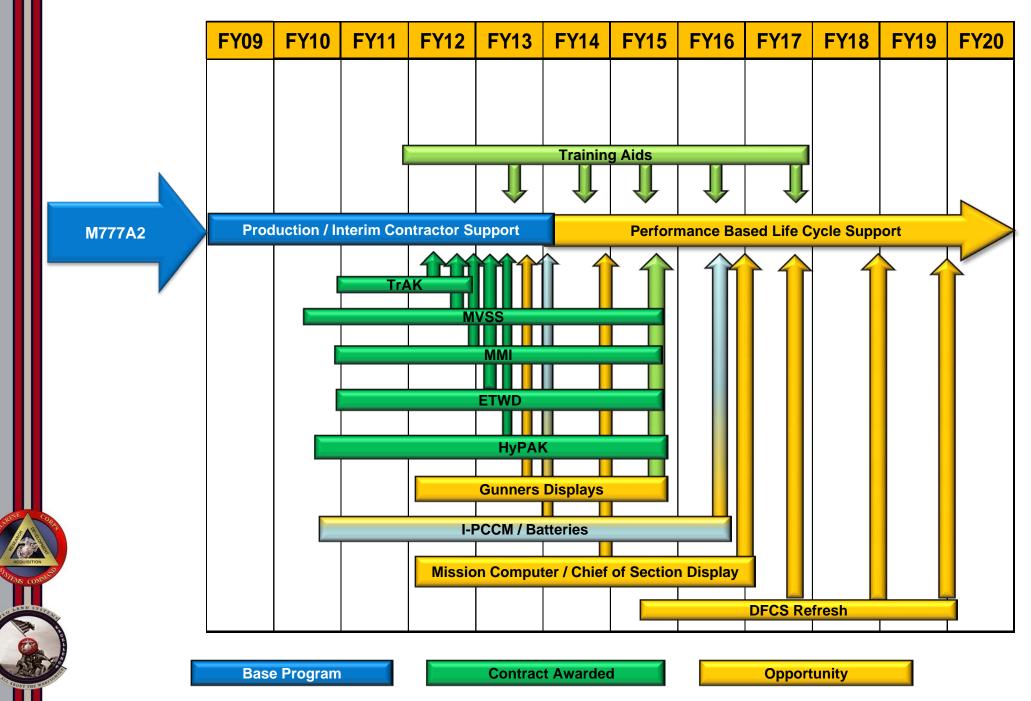
# M777A2 Program Evolution



### M777A2 Howitzer

Program Description	Key Requirements/Performance
<ul> <li>155mm Towed Howitzer</li> <li>Joint US Army/USMC Program</li> <li>AAO: US Army 542 and USMC 511</li> <li>FMS to Canada (37) and Australia (35)</li> <li>BAE Systems (UK) is Prime Contractor for Production and Initial Sustainment</li> <li>GFE Cannon manufactured at Watervliet Arsenal</li> <li>GFE Optical Fire Control, INU, PFM, Spade Dampers, BII competitively procured</li> </ul>	<ul> <li>Weight &lt; 10,000 lbs</li> <li>Emplacement &lt; 3 Minutes</li> <li>Displacement &lt; 2-3 Minutes</li> <li>Rate of Fire &gt; 4 rounds per Minute</li> <li>Digital and Optical Fire Control</li> <li>Compatible with Excalibur and PGK</li> <li>Air Mobility: MV22, CH53D/E, CH47D</li> </ul>
Production/Sustainment Schedule	Modernization Strategy
<ul> <li>Army/USMC Production through Nov 2013 <ul> <li>&gt;850 of 1071 fielded to date</li> </ul> </li> <li>Additional Production Potential <ul> <li>Significant FMS interest</li> </ul> </li> <li>Sole source ICS sustainment contract through Feb 13</li> <li>Competitive Performance Based Life Cycle Support (PBLCS) contract in FY13</li> </ul>	<ul> <li>Limited Cannon and Platform Program <ul> <li>Traverse Assist Kit (TrAK)</li> <li>Hydraulic Power Assist Kit (HyPAK)</li> <li>Electronic Thermal Warning Device (ETWD)</li> </ul> </li> <li>Active Digital Fire Control Refresh <ul> <li>Improved Power Conditioning Control Module</li> <li>Smart Batteries</li> <li>Muzzle Velocity Sensor System (MVSS)</li> <li>Computer and Displays</li> <li>Radios</li> </ul> </li> </ul>

### M777A2 Roadmap



### M777A2 Digital Fire Control Refresh



<u>Communications:</u> Upgrade Radio, Implement I-PIK and remove DAGR -May result in enclosure redesign Projected Fielding: FY16-17



Electronic Thermal Warning Device (ETWD): Replace current mercury device to address safety/MACS M232A2 Z5 Fielding: FY 13-14





Chief of Section Display (CSD)

Mission Computer (MSC)

#### Computer / Displays:

MSC/CSD: Active replacement to address obsolescence/support future upgrades Projected Fielding: FY15 Gunners Displays: Active replacement to address obsolescence Projected Fielding: FY13



Gunner/Asst Gunner Display (GD/AGD)



Muzzle Velocity Sensor System (MVSS)

Inertial Navigation Unit (INU) Vehicle Motion Sensor (VMS)

#### Accuracy / Navigation:

MVSS: New system integrated with DFCS MVSS Fielding: FY12

INU: Refresh aging components VMS: Refresh aging components



**Power:** PCCM: Replace with I-PCCM to address field issues/support future upgrades Smart Battery: Li-ion under investigation Fielding: FY14

## **Mission Computer Attributes**

- Same physical space claim as existing
- Reuse of all existing cables and harnesses
- Reduced power consumption
- 1.6GHz dual-core processor with 2GB RAM (min)
- 16GB Solid State Drive
- Internal USB TacLink® Modem
- (8) RS-422, (8) Ethernet, (4) USB 2.0 ports
- 802.11n (threshold) and Bluetooth (objective)
  - Dedicated port for attaching external antenna
- Windows Standard Embedded 7 operating system

# **Chief of Section Attributes**

- No larger than existing
- Same mating connector as existing
- 6lb (threshold) 4lb (objective) total weight
- 8" (or larger) LCD touch screen
- 800MHz dual-core processor with 512MB RAM (min)
- Ethernet port
- Dedicated maintenance port
- Hot swappable internal battery
- 802.11n (threshold) and Bluetooth (objective)
  - Internal antenna
- Windows Embedded Compact 7 operating system

## **Gunners Display Attributes**

- Improved sunlight readability
- Reduced power consumption
- Higher reliability
- Simplified repair procedures
- Lower unit cost

# **Acquisition Strategy**

#### • Competitively awarded

- •Firm Fixed Price (FFP)
- •Indefinite Delivery, Indefinite Quantity (IDIQ)

•Best Value

Manufacturing / ManagementObsolescence Strategy

- Technical
- Past Performance
- •Cost
- •Small Business Participation

### RFP's to be on FedBizOpps in 2-4 weeks

### Performance Based Life Cycle Support (PBLCS) Vision

#### Vision:

Establish a Joint Government/Contractor Team to provide world class sustainment of the M777A2 Lightweight 155MM Howitzer that meets or exceeds Warfighter expectations at the Best Value to the Government

### Long Term Aspiration:

Contractor assumes responsibility for overall Availability of the Howitzer

# **PBLCS Goals**

#### Responsiveness:

Rapidly identify Warfighter Performance Based Agreement (PBA) Metric shortfalls and implement corrective action

Provide Field Service Representatives to support fielded units

#### System Improvements:

Apply Systems Engineering and Configuration Management to manage obsolescence, technical insertion, and provide long term solutions and improvements to the system

Maintain ILS products (TM's, LSA, etc)

#### Overall System Support Management:

Develop and Manage PBAs with Organic and Contractor Product Support Providers to meet Warfighter PBA Metrics

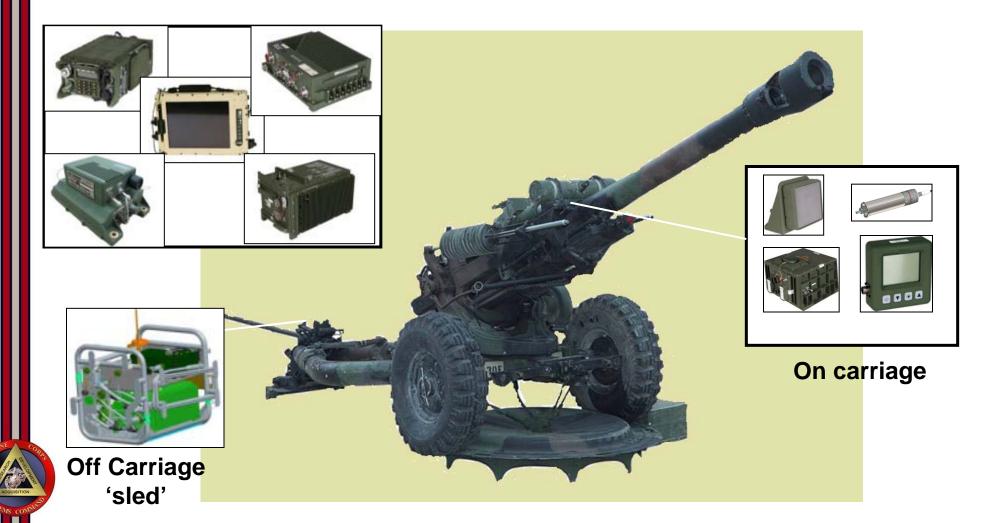
#### Supply Support:

Forecast requirements, manage inventory, and provide timely delivery of spares to meet metrics

# **PBLCS Acquisition Strategy**

- Contemplated strategy is a 10 year contract
  - Base year plus four 1 year Options.
  - At the end of each of the first 5 years, the Government would evaluate the contractor under an Award Term scenario for extending the contract an additional year.
- All options and award terms would be subject to the availability of funds.
- 2 Step Proposal Strategy

## **PM-TAS Opportunity M119A2 Digitization**



Power-Sled and Brackets-Cables-Gunners Display

# Questions ?