PM-CCS
Technology Insertion Opportunities
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“Equip soldiers with networked assured mobility, force protection, and close battle systems for current operations and transformation.”
PM CCS Product Lines

- Networked Munitions/Legacy Mines
- Countermine
- Demolitions
- Grenades
- Pyrotechnics
- Shoulder-Launched Munitions
- Non-Lethal Systems & Munitions
- Special Projects (for SOCOM)
- EOD Equipment
- IED Defeat
Organization & Programs Managed

200+ Products Managed in FY07

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Project Manager

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Business Management
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PdM IMS
LTC Jim Winbush
Joe Pelino DPdM

PdM Countermine & EOD Equipment
LTC Pete Lozis
Phil Purdy DPdM

PdM IED Defeat/Protect Force
LTC Karl Borjes
Robin Gullifer DPdM

Networked/Demolitions
Doreen Chaplin

Pyrotechnics & Shldr-Launched Munitions
Santo Lombardo

Force Application
Kevin Wong

(IMS) Intelligent Munitions System*
(ACAT II, FCS Incrmt. 1)

Standoff Mine Detection Systems:
- GSTAMIDS*
- ASTAMIDS*
- AN/PSS-14
AMCS FCT
-Aardvark Med Flail
-Hydrema Flail
AMDS
Husky MDS
VOSS
Interrogation Arms
EOD Equipment

IED Mine Rollers
Rhino
FSEP
Non Lethal Capability Set
VLAD
PVAB
Taser
ADS, AHD
ISNLS

Spider Networked Munitions System

Legacy Mines
- Claymore
- MOPMS
- Volcano

Demolitions
- Block Explosive
- Sheet Explosives
- Bangalore Torpedo
- MDI
- Det. Cord
- Blasting Caps
- Fuzes

OVERSIGHT:
Bloodhound
Rattlesnake
Sparrow
Cache Detection

APOBS
CAD/PAD
EOD Ammo

Pyrotechnics
- Flares
- Signals
- Simulators

Shoulder-Launched Munitions
- AT4 Family
- BDM
- LAW
- Indiv. Assault Munition

Grenades
- Lethal Grenades
- Smoke Grenades
- Launcher Grenades

Non Lethal Ammo
- MCCM
- 40 mm
- 12 gauge
- NL Grenades
- Mk19 Munitions

Special Projects
- RAMS
- MI RAMS
- GDS
- TD-SYDET
- SOF Demo Kit
- RWBK

* FCS Program
PM CCS Life Cycle Management

Programs managed through IPTs supporting JM&L LCMC Philosophy

PEO-STR/PM TRADE
PEO GCS/PM FCS
PEO Soldier/PM Soldier Weapons
PEO Chem Bio/PM-ODS
PEO Aviation
PEO CS/CSS

Development Partners

NVESD
ARL
CERDEC
ECBC
TARDEC

Service Customers

USA
USMC
USN
USAF
USSOCOM
USCG
JIEdDO

Ammo Enterprise

ARDEC
PEO Ammo
PM CCS
JMC

Additional Eng Support

Acquisition Centers

Proponent Schools

PICATINNY
ROCK ISLAND
CECOM/FT. BELVOIR

Infantry
Aviation
Engineer
Military Police
Armor
Artillery
Legacy Mines

Technology Insertion Opportunities

- Mini Modular Claymore
- Vehicle-Mount Modular Claymore
- Low-Cost wireless initiators
Networked Munitions Systems

Technology Insertion Opportunities

- Better target identification in urban environments
- Improved battery life
- Control of scaleable effects
- Ability to deploy systems remotely
  - Sensor networks for surveillance
  - Near real-time battle damage assessment
Countermine

Technology Insertion Opportunities

- Improved, less expensive detection sensors
- Small, lightweight unmanned ground and air vehicle payloads
  - Mine detection
  - Mine marking
  - Mine neutralization
- Automated mine identification/analysis
- Minefield breeching at extended standoff
Demolitions

Technology Insertion Opportunities

- More powerful demolitions
- Single stage cratering device
- Insensitive munitions compliance
Explosive Ordnance Disposal Equipment

Technology Insertion Opportunities

• Additional remote, robotic capabilities
  • Additional standoff
  • More disposal options for EOD personnel
  • Able to traverse difficult terrain
  • Reduce system weight
Grenades

Technology Insertion Opportunities

- Additional smoke colors
- Multiple smoke options in one item
- Enhanced incendiary device
- Replacement of environmentally unfriendly materials
- Insensitive munitions compliance
Technology Insertion Opportunities

- Next generation of counter measure flares
- New and improved simulators
- Pocket sized hand held signals
- Replacement of environmentally unfriendly materials
- Improve pyrotechnic characteristics with nanotechnologies
Shoulder Launched Munitions

Technology Insertion Opportunities

• One system that defeats bunkers and light armored vehicles
• Reduced fragmentation toward the user at short ranges
• Reduce weight and size
• Reduce visual signature
• Insensitive munitions compliance

AT4-CS
Non-Lethal Systems

Technology Insertion Opportunities

- Scaleable effects
- Increased range
- Single net solution for light and heavy vehicles
- New non-lethal capabilities
Technology Insertion Opportunities

- Ability to breach concrete and the rebar in a single shot
- Smaller, lighter systems
- Single RF/MI transmitter
- Better antennas

Special Projects

Rapid Wall Breacher Kit (RWBK)

SOF Demo Kit (M303)

MI RAMS Transmitter

XM27

Type “A” Receiver XM39

MI RAMS Transmitter w/ Auxiliary Battery Pack (M6)

Type “B” Receiver XM40

GDS

TD SYDET

Selectable Lightweight Attack Munitions (M2 & M4 SLAM)
IED Defeat

Technology Insertion Opportunities

- Mature IED Defeat technologies
- Looking for modular plug and play capabilities for platforms
Summary

- PM CCS is fully engaged in JM&L Life Cycle Management:
  - Accelerated acquisition/fielding of key systems/items for war fighting
    - Developing New Systems
    - Rapid Fielding of Non-Developmental Capabilities
  - Modernization & acquisition improvement of large number of current force ammo items

- New Warfare ➔ New Challenges
  - Decreasing effectiveness of older products

- Many opportunities for technology insertion

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