



Project Manager Close Combat Systems



2018 Munitions Executive Summit PM Acquisition Panel

18 April 2018

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PM CCS Portfolio



Area Denial



Terrain Shaping Obstacle



SLAM



Claymore



Spider Inc 1a

Counter Explosive Hazard



Standoff Robotic Explosive Hazard Detection (SREHD)



AN/PSS-14C Hand Held Mine Detector



Explosive Ordnance Disposal

Grenades



M67 Fragmentation Hand Grenade



M228 Practice Fuze



M106 SOD-V_R



Smoke Grenades

Non-lethal Ammo & Systems



Non-lethal Grenades



12Ga & 40mm NL



Acoustic Hailing Device



Taser

Pyrotechnics



Countermeasure Flares



Signals



Simulators

Demolitions



C-4 Block



RF-Remote Activation System (RAMS)



Shaped Charge



Det Cord



Sheet Explosive

Shoulder Launched Munitions



Bunker Defeat Munition



AT4 & AT4CS



Project Manager Close Combat Systems



Product Director Combat Armaments and Protection Systems

Combat Systems – Derek DeReiter
Protection Systems – Hugh MacMillan

Product Director
Ben Corrigan

APM
MAJ James

Act'g Deputy PdD
Dave Millette



Project Manager
COL Jonathan
Slater



Deputy Project
Manager
William Sanville



Business Management Division

Bob Wisser

Supervisory Analysts

Rob Nitzsche
Kelly Struckmeyer



Product Manager Gator Land Mine Replacement

Product Support Manager – Fred Willecke
Legacy Branch Chief – Mike Burke
GLRP Branch Chief – Eli Vainchenker

Product Manager
LTC Phillis
Potet

APM
CPT Phillis
CPT Monette
CPT Rodriguez



Deputy PdM
Ken Heider



Director, Program
Integration

Gary Barber



Technology Management Division

John Esposito



Product Support Manager – Ammunition

Dan O'Leary



Product Support Manager – Munition Systems

Ray Chin

The Best Lethality &
Survivability Options for
Commanders and Joint
Warfighters for Unified
Land Operations



Product Leader Support Systems

Pyrotechnics Branch Chief – Harvard
Yuen

Demolitions Branch Chief – TBD

Product Leader
Rene Medina

APM
Vacant



Deputy PdL
Tim Healy

STRENGTH IN YOUR HANDS

a/o Apr 2018

PM CCS Military Core
PM CCS Civilian Core
Colocated Matrix



Team CCS Priorities



- **Readiness, support to the Joint Warfighter & deliver improved capabilities**
 - Next generation Terrain Shaping Obstacle (TSO)
 - M7E1 Spider Increment 1A
 - Standoff Robotic Explosive Hazard Detection (SREHD)
 - Product Improvements
- **Sustain technological superiority through a quality workforce & innovation**
- **Enhance industry to government relationship**
- **Stewardship in everything we do**
- **Increase international program participation**



PM CCS PB19 Budget Outlook (FY19-FY23)



Spending Forecast:



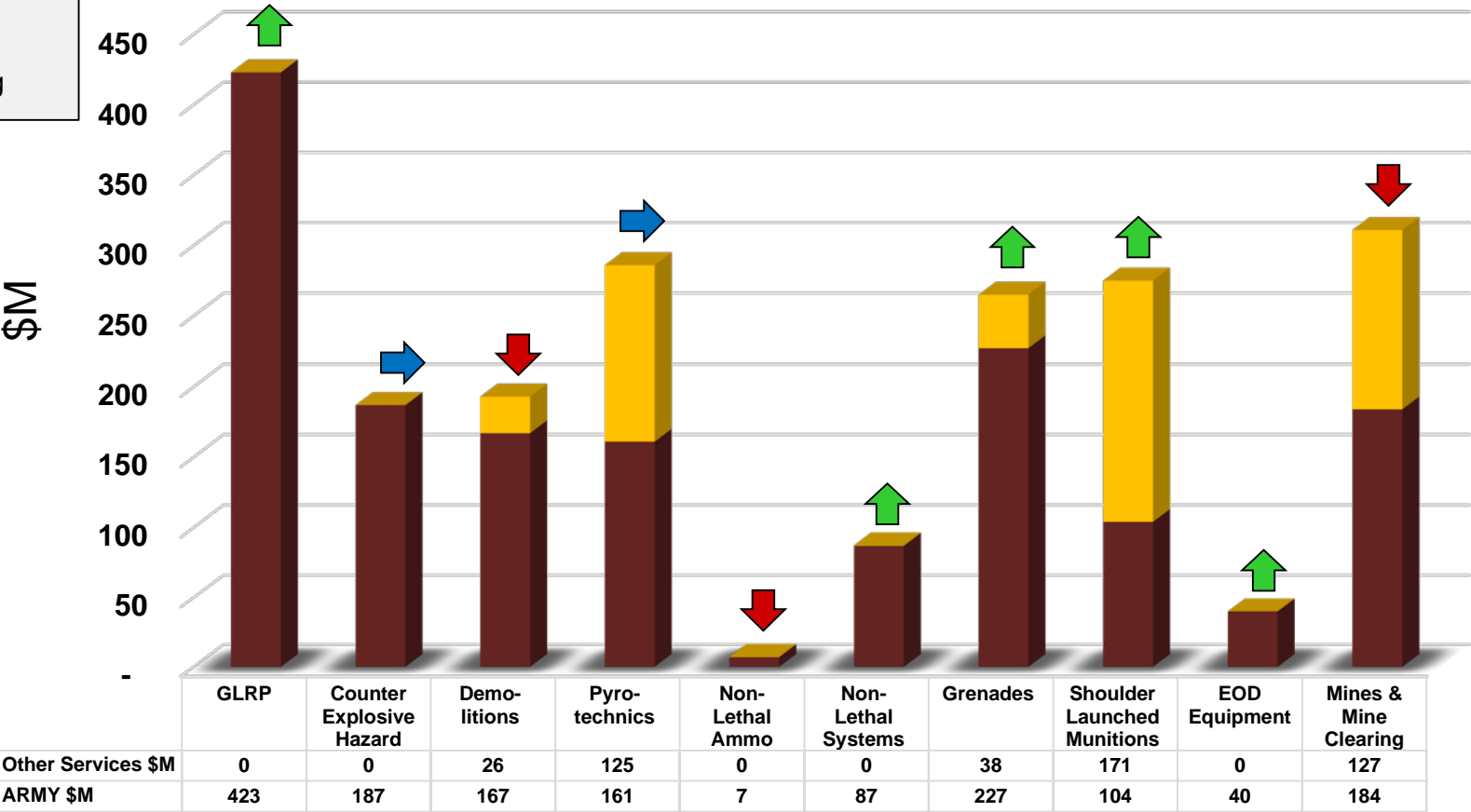
Increasing



Consistent



Decreasing



■ PB19 (FY19-FY23) - Other Services \$M

■ PB19 (FY19-FY23) - ARMY \$M



Industrial Base Challenges



- **Maintaining Quality Product and Providing On-Time Deliveries**
- **Turn Around Time and Quality of Proposals**
- **Critical Components at the Prime and SubTier Levels**
- **Obsolescence/Single Point Failures**



FY18/FY19

Competitive Opportunities



Product	Projected	Projected	Dollar	Contract	Contract
	RFP Date	Date	Amount	Strategy	Type
Single Net Solution - Remote Deployment Device (SNS-RDD)	3QFY18	1QFY19	\$88M	C	IDIQ/FFP
PM CCS Support Service	3QFY18	1QFY19	\$22M	C-8(a)	IDIQ/FFP
Signals, Smoke and Illumination Marine MK124	3QFY18	1QFY19	\$13M	SBSA	IDIQ/FFP
M69 Practice Grenade	4QFY18	2QFY19	\$10M	C	IDIQ/FFP
M206, MJU-7A/B and MJU-10B Infrared Countermeasure Flares	4QFY18	2QFY19	\$300M	C	IDIQ/FFP
Anti-Personnel Obstacle Breaching System (APOBS)	4QFY18	1QFY19	\$325M	C	IDIQ/FFP
M18/M83 Metal Parts	1QFY19	3QFY19	\$30M	C	IDIQ/FFP
M1116/M1012/M1013	1QFY19	3QFY19	\$20M	C	IDIQ/FFP
M58 Mine Clearing Line Charge (MICLIC)/M112	1QFY19	3QFY19	\$238M	C	IDIQ/FFP
Modernized Demolition Items (M81 Ignitor, M11, M14, M15, M21, M23, M65, M151)	4QFY19	2QFY20	\$80M	SBSA	IDIQ/FFP
GLMR Technology Maturation Risk Reduction - Contractor A	2QFY19	3QFY19	\$12.8M	C	DOTC
GLMR Technology Maturation Risk Reduction - Contractor B	2QFY19	3QFY19	\$12.8M	C	DOTC

C - Competitive

SBSA - Small Bus Set-Aside

NTIB - National Technology & Industrial Base

FFP - Firm Fixed Price

IDIQ - Indefinite Delivery/ Indefinite Quantity



Team CCS

Top Techbase Priorities



- **Terrain Shaping Obstacle (TSO)** - Area Denial capability providing Human-in-the-Loop (HITL) controlled scalable effects against mounted and dismounted enemy forces
- **Aviation Aircraft Expendable Countermeasures** - Develop the capability to protect aircraft from emerging surface to air missiles (SAM). Countermeasures flares to improve aircraft survivability, especially helicopters.
- **Lighten the Load** - Including shoulder launch, and battery technologies
- **IEDs** - Standoff detection, metallic, low-metallic and non-metallic
- **Environmental** - Green energetics, propellants and explosives
- **Fuze design** - Smart, out-of-line
- **Efficiencies** - Common fuze design
- **Insensitive Munition (IM)** - IM fill, packaging and fuze
- **Non-Lethal** - Directed energy and Individual Non-Lethal System

Continued Coordination with RDECOM's RDECs



Terrain Shaping Obstacles Program Description



Deny enemy access to terrain

Deny enemy freedom of action

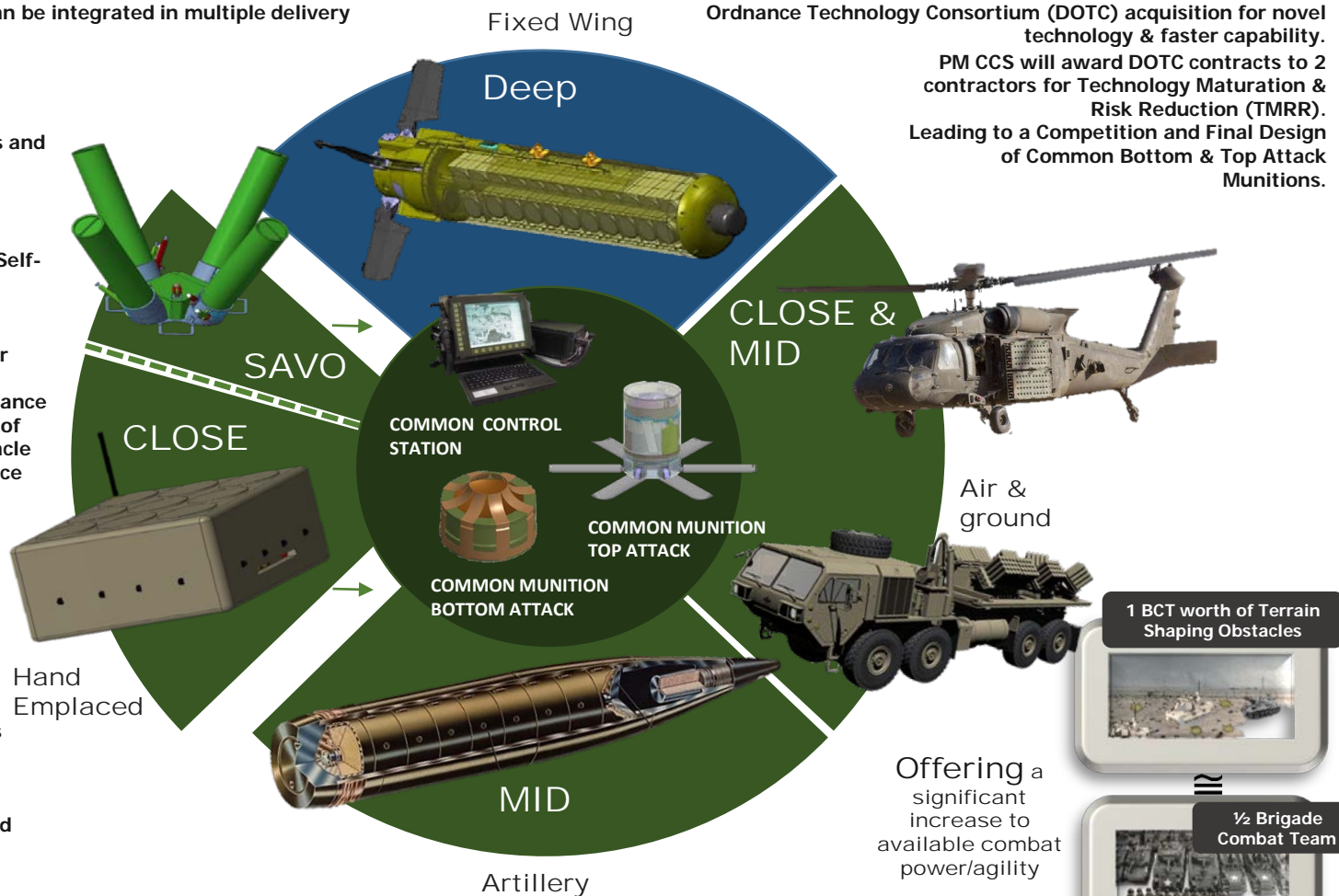
Allow friendly forces to maneuver freely within the same battlespace

Implementing a Terrain Shaping Obstacle Strategy

U.S. Army will be developing a Next Generation common set of Anti-Vehicle munitions (Ottawa Compliant) that can be integrated in multiple delivery platforms

Program Description

- Compliant with Major Conventions and Treaties
- System will have Communications Capability from 2 to 300 km
- On/Off/On Munitions
- Remotely modified Self-Destruct/Self-Deactivate Times
- Command Destruct/Deactivate
- Self Report Location of Obstacles
- Self Report Status, Tamper, and/or Activation of Mine-Field
- Advanced Counter-Measure Resistance
- Ground-based obstacle consisting of lethal Anti-Vehicle (AV) with obstacle complexity and breaching resistance measures
- Detect, Track and Engage Threat Vehicles ranging from Main-Battle Tanks (MBTs)/Infantry Fighting Vehicles (IFVs) to Engineering Vehicles and Transporter Erector Launchers
- Common Controller for
- Networked Obstacles
- Durable and Versatile: Work in
- All Terrain/Weather Environments and Deliverable at *Close, Mid, and Deep Ranges*
- Easily Trained and Employed
- Rapidly Emplaced; Recoverable and Reusable (Close)
- Affordable



Innovative Acquisition Program Approach

PM Close Combat Systems (PM CCS) is leveraging Defense Ordnance Technology Consortium (DOTC) acquisition for novel technology & faster capability.

PM CCS will award DOTC contracts to 2 contractors for Technology Maturation & Risk Reduction (TMRR). Leading to a Competition and Final Design of Common Bottom & Top Attack Munitions.



Closing Message to Industry



- **Readiness, support to the Joint Warfighter & deliver improved capabilities**
 - Ensure the Joint Warfighter has the best, most affordable capabilities
 - Explore technologies that will allow the Joint Warfighter to do more with less
 - Close Terrain Shaping Obstacles
- **Execution**
 - PM CCS evaluating “ALL” avenues to improve execution
 - Family buys, DLA Contracts, Strategic Planning, OTAS, etc.
- **PM CCS will allow more items to be available for FMS**
- **PM CCS will continue to increase International participation**