



PM Close Combat Systems

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Armament and Munitions Forum

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COL Richard Hornstein

Project Manager

(973) 724-7041

richard.j.hornstein.mil@mail.mil

Matt Butler

Deputy Project Manager

(973) 724-3981

matthew.c.butler3.civ@mail.mil



PMCCS

PROJECT MANAGER CLOSE COMBAT SYSTEMS



Lethality & Survivability for the Close Fight

- Manages over 53% of all active U.S. Army ammunition programs
- 170+ active programs supported by more than \$400 million in funding

What We Do

Networked and analog technologies, energetics, and munitions that improve Anti-Access/Area Denial (A2/AD) and increase the lethality, survivability, and overmatch of both the mounted and dismounted Joint Force in the close fight – lethal, non-lethal, robotics, counter-measures, and counter explosives for Unified Land Operations.



Team CCS Combat Munitions

Close-in Capabilities for Decisive Action.

- Fuzes & fuze setting
- Explosive technology, safety, rocket propellants, warheads





Team CCS Counter Explosive Hazard

Close-in Capabilities for Decisive Action.

- Countermine, counter improvised explosive device (IED)
- Explosive hazard detection & neutralization





Team CCS Support Munitions

Close-in Capabilities for Decisive Action.

- Battlefield support munitions – non-lethal, demolition, pyrotechnics, grenades

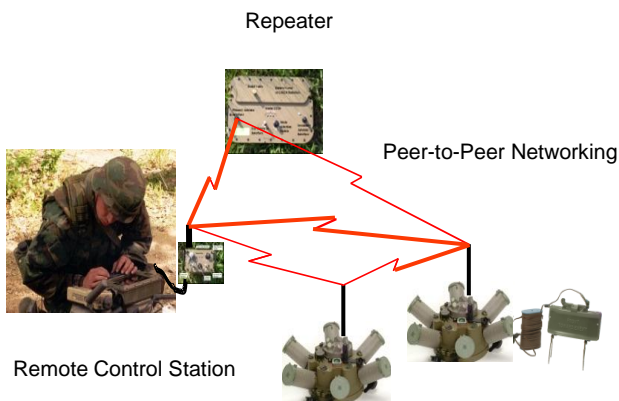




Team CCS Area Denial

Close-in Capabilities for Decisive Action.

- Battlefield support munitions – networked munitions, legacy mines



Munition Control Units





Team CCS in the Fight

Since 2003, in support of OEF & OND:

- 100+ urgent materiel fieldings
- 70 ONS / JUONS
- 150+ PM CCS products in theater
- PM CCS civilians as PEO Ammo Forward

Combat Munitions:

SLM:

- AT4
- BDM
- LAW

Grenades:

- Frag HG
- Incendiary HG
- Off HG
- Smoke
- Smoke Pots

Non-Lethal:

- 12GA NL Ammo
- 40mm NL Ammo
- ECP
- FSEP
- MCCM
- NL Grenades

Support Munitions:

Demolitions:

- APOBS
- Bangalore
- C4/TNT
- Cutters
- Demo Charge Assy
- Flex Linear Charge
- Initiators
- M10 Dest
- MICLIC
- RAMS
- Shaped Charge/Sheet Exp

Pyro:

- CM Flare
- Hand Held Sig
- Imp CTG
- PERS Dist Sig
- Trip Flare

Counter Explosive Hazard

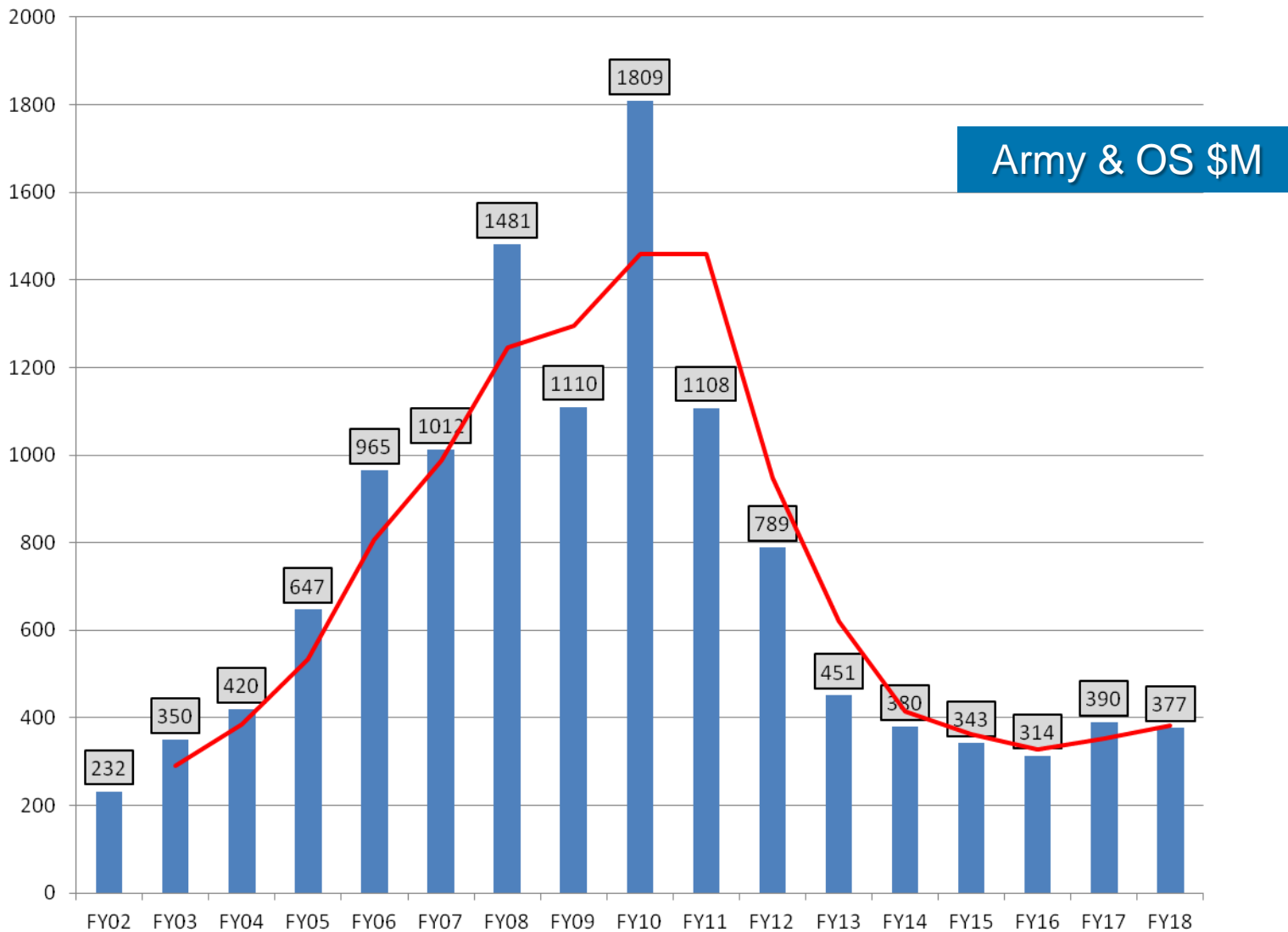
- AN/PSS-14
- Culvert Denial
- Cyclone
- DSP No27
- EOD
- Gizmo
- Ground Torch
- HMDS
- Interrogation Arm
- Jackal
- Minehound
- Rhino
- Schonstedt
- Sherlock
- SPARK
- VOSS
- WNS

Area Denial:

- Claymore
- Spider

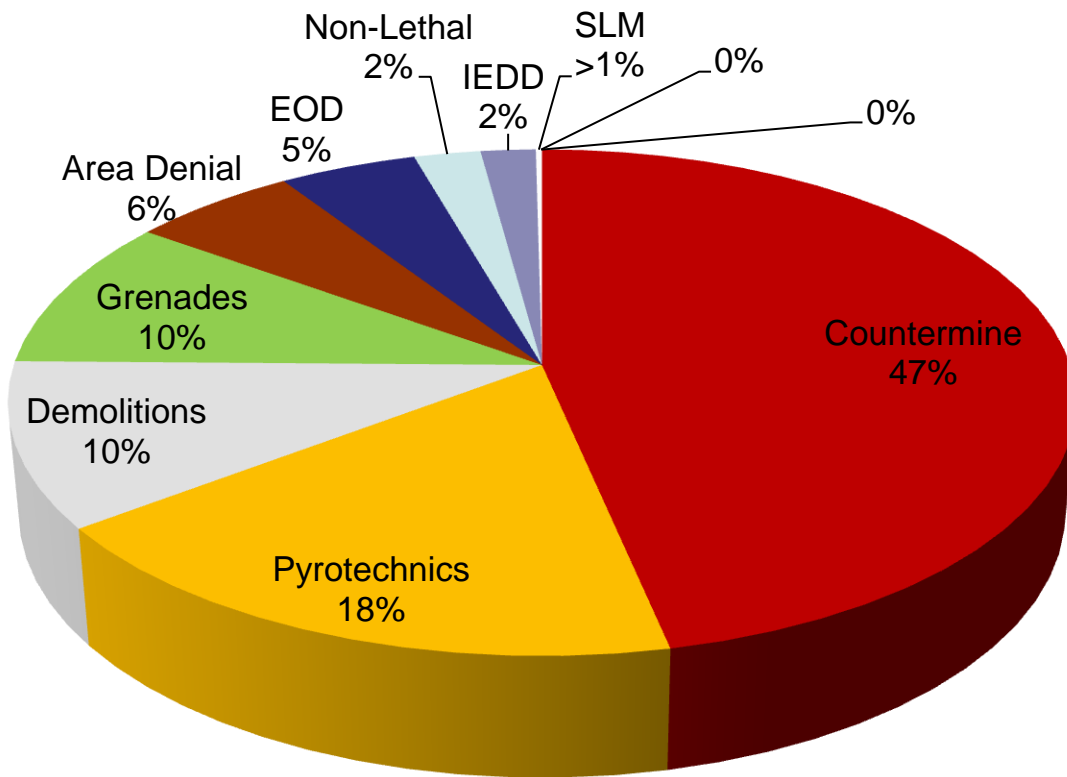


Team CCS FY02 - FY18 Funding Trend





Team CCS FY14 Product Line Funding

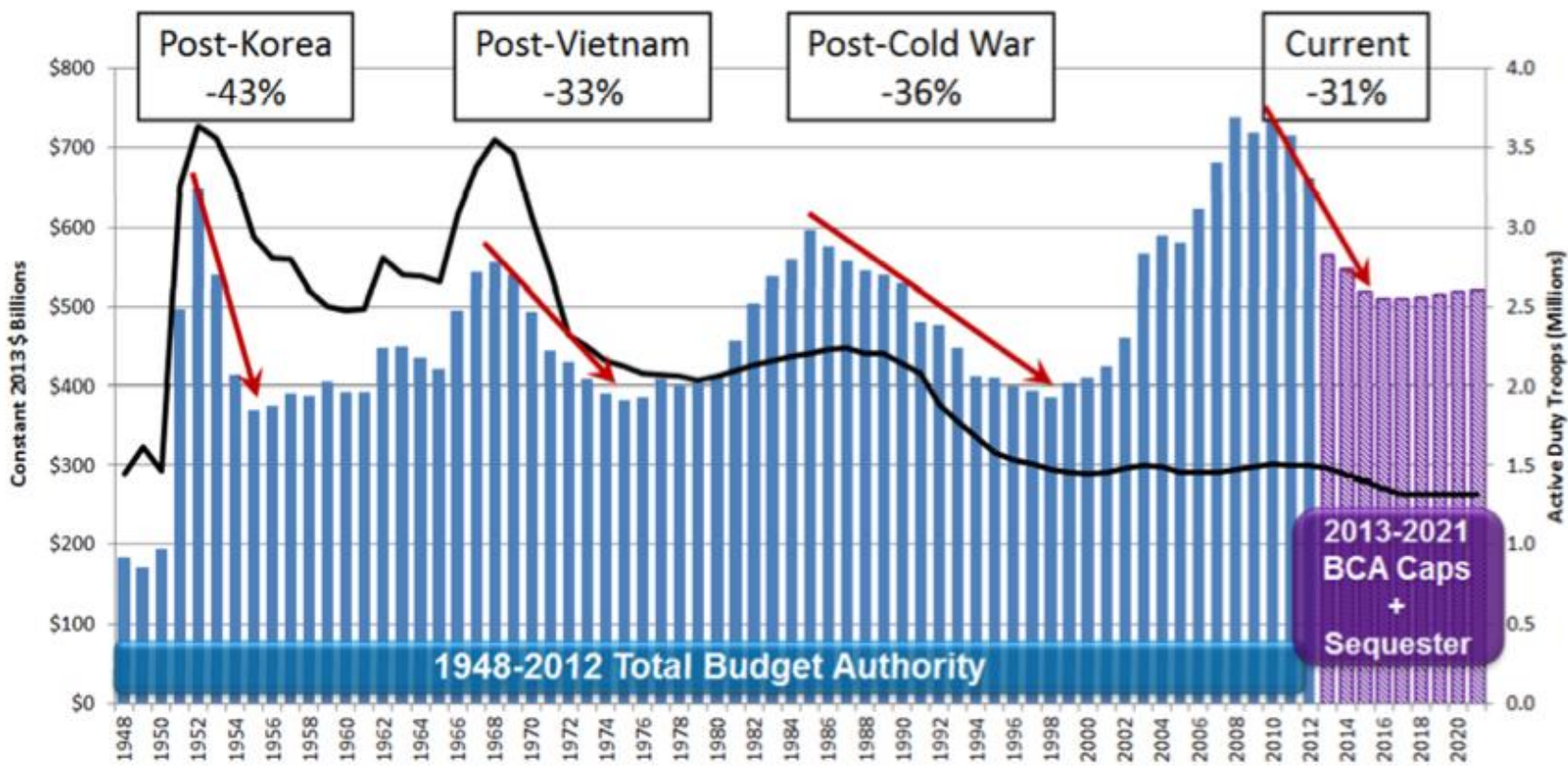


Product Line	\$M
Countermine	218.5
Pyrotechnics	84.5
Demolitions	49.3
Grenades	45.3
Area Denial	27.2
EOD	22.5
Non-Lethal	10.9
IEDD	9.0
SLM	1.0
Total	468.2



Tough Choices for Strategic Leaders

PM CLOSE COMBAT SYSTEMS





Team CCS Partnership with Industry

Since 2003, PM CCS has supported a robust industrial base, including:

- Husky Mounted Detection System (HMDS) (2013): \$166M
- Vehicle Optics Sensor System (VOSS) (2012): \$333M
- Self-Protection Adaptive Roller Kit (SPARK) (2010): \$451M
- M206 Countermeasure Flares (2009): \$527M
- M211/M212 Countermeasure Flares (2008): \$684M
- AT-4 CS Training Ammo (2007): \$365M

For a total since 2003 of \$8.265 billion

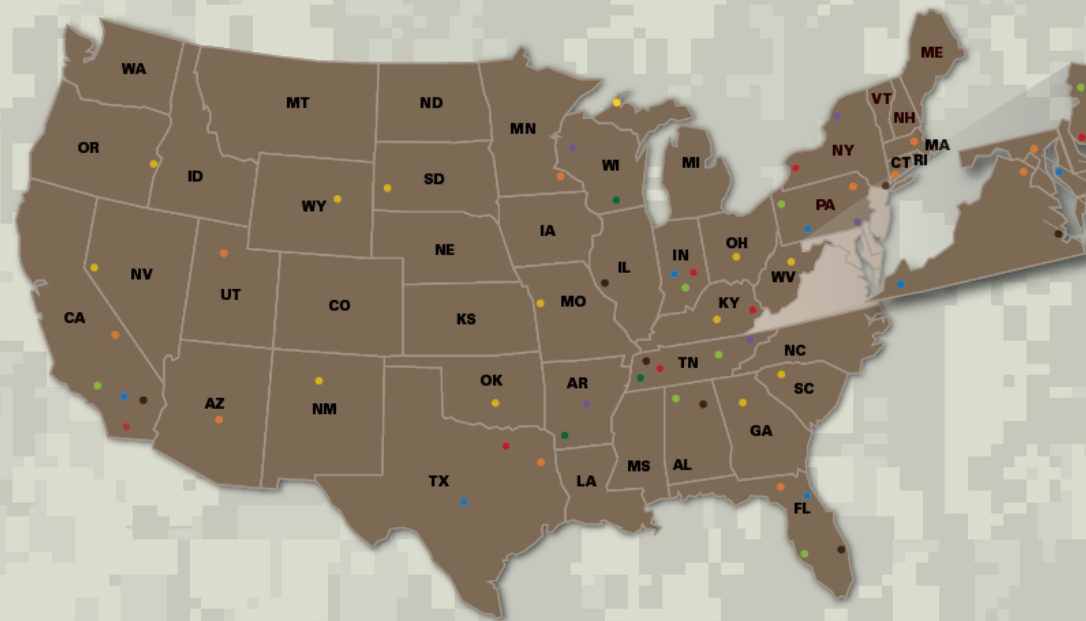


Top 10 FY14 / FY15 Acquisition Opportunities

- Shoulder-launched Multipurpose Assault Weapon (SMAW) - \$100M
- HMDS - \$20-\$30M
- M206/MJU7/MJU10 Countermeasure Flares - \$26M
- M72 Light Anti-Armor Weapon (LAW) - \$24M
- Autonomous Mine Detection System (AMDS) - \$20M
- Family of Smoke Grenades - \$13M
- M67 Grenade - \$11M
- LUU2/LUU19 Flares - \$9M
- M112 Composition C4 Block Demolition Charge - \$9M
- Spider - \$8M

Potential for Individual Assault Munition (IAM) development.

PM CCS Prime Development & Production Suppliers



SUPPLIERS:

- Aardark Tactical
- ACMS (Sierra Nevada)
- Allion Science and Technology Corp.
- Allen-Vanguard
- Alliant Technologies Inc. (ATK/Troxtron)
- Alloy Surfaces Company (Chemring)
- American Ordnance
- Ampal
- Amptec
- Applied Research Associates
- Armtec Countermasures
- ATK Launch Systems
- BAE Systems
- BAE Systems
- Battelle Memorial Institute
- Blue Grass Army Depot (BGAD)
- Buffalo Turbine
- Bulova Technologies
- Camtec Precision Manufacturing
- CECOM/R2 - CERDEC
- Chemring Defence Germany GMBH
- Combined Systems Inc
- Computer Systems Corporation
- Concurrent Technologies Corporation
- Coronet Machinery Corp
- Crane Army Ammunition Activity (HSWC)
- Dahlgren (NSWC)
- Day & Zimmerman
- DE Technologies
- Delta Scientific Corp
- DTI Associates
- Dynamic Defense Materials
- Dyno Nobel (Chemring)
- Eads-Belford Aerospace & Defense
- Explora Security
- Fasan International
- Firecontrol
- Foster-Miller
- General Dynamics
- Golden Engineering
- Hanley Industries
- Ibis Tak
- ICX Nomads
- Indian Head (NSWC)
- iRobot
- ITT Corporation
- Kowasean Research Center
- Kilgore Flares Company (Chemring)
- Kipper Tool Company
- L-3 Communications Cylarra
- L-Tech Enterprises
- LetterKenny Army Depot (LEAD)
- Lockheed Martin Gyrocam
- Magneto-Inductive Systems (UEMIS)
- Mast Technology
- Martin Electronics
- Miltek Pro
- Nannmo Talley
- Nation Ford Chemical
- Nittek (Chemring)
- Northrop Grumman
- Packaging Strategies
- Pearson Engineering
- Pine Bluff Arsenal
- Polymer Technologies
- Protechnique By Groot
- Qinetiq
- R. Strassau Laboratory
- RA, Inc
- Raytheon Technical Services
- Remotec
- Saab Bofors Dynamics
- Safariland (Defense Technology)
- SaviT Corporation
- Schonstedt Instrument Company
- Science Applications International
- Sea Box, Inc
- Security Signals
- Shock Tube Systems
- South Dakota School of Mines and Tech
- Tetryon Systems Corporation
- Tobyhanna Army Depot
- Tool Masters
- TPL, Inc
- Trintek
- Universal Propulsion
- Yorktown (NSWC)

STATES:

- Alabama
 - General Dynamics
 - Tool Masters
- Alaska
 - Pine Bluff Arsenal
 - Spectra Technologies
- Arizona
 - Nannmo Talley
 - Universal Propulsion
- California
 - Aardark Tactical
 - Armtec Countermasures
 - Delta Scientific Corp
 - Magneto-Inductive Systems (UEMIS)
 - Science Applications International
- Connecticut
 - Coronet Machinery Corp
 - Eads-Belford Aerospace & Defense
 - Shock Tube Systems
- Florida
 - Bulova Technologies
 - Camtec Precision Manufacturing
 - Lockheed Martin Gyrocam
 - Martin Electronics
 - Northrop Grumman
- Georgia
 - Kipper Tool Company
- Germany
 - Chemring Defence Germany GMBH
- Illinois
 - Allion Science and Technology Corp.
 - Hanley Industries
- Indiana
 - Crane Army Ammunition Activity (NSWC)
 - Golden Engineering
 - Raytheon Technical Services
- Kentucky
 - Blue Grass Army Depot (BGAD)
 - L-Tech Enterprises
- Massachusetts
 - Foster-Miller
 - L3 Communications Cylarra
 - Troxtron Systems Corporation
- Maryland
 - Paecon International
 - Indian Head (NSWC)
 - ITT Corporation
 - Packaging Strategies
- Michigan
 - Kowasean Research Center
- Minnesota
 - Alliant Technologies Inc. (ATK/Troxtron)
- Missouri
 - Mast Technology
- New Jersey
 - Fort Monmouth
 - CECOM/R2 - CERDEC
 - Computer Systems Corporation
 - Dynamic Defense Materials
 - Polymer Technologies
 - RA, Inc
 - SaviT Corporation
 - Sea Box, Inc
- New Mexico
 - Applied Research Associates
 - TPL, Inc
- Nevada
 - ACMS (Sierra Nevada)
- New York
 - Allen-Vanguard
 - Battelle Memorial Institute
 - Combined Systems Inc
- Ohio
 - Battelle Memorial Institute
- Oklahoma
 - ICX Nomads
- Oregon
 - Firecontrol
- Pennsylvania
 - Alloy Surfaces Company (Chemring)
 - Ampal
 - Concurrent Technologies Corporation
 - DE Technologies
 - Ibis Tak
 - LetterKenny Army Depot (LEAD)
 - Tobyhanna Army Depot
 - Trintek
- South Carolina
 - Nation Ford Chemical
- South Dakota
 - South Dakota School of Mines and Tech Rapid City
- Sweden
 - Saab Bofors Dynamics
- Tennessee
 - American Ordnance
 - BAE Systems
 - Kilgore Flares Company (Chemring)
 - Security Signals
- Texas
 - BAE Systems
 - Day & Zimmerman
 - Miltek Pro
- United Kingdom
 - Pearson Engineering
- Utah
 - ATK Launch Systems
 - Dyno Nobel (Chemring)
- Virginia
 - Cad Technologies
 - Dahlgren (NSWC)
 - DTI Associates
 - Explora Security
 - Nittek (Chemring)
 - Protechnique By Groot
 - Qinetiq
 - Systems Research and Applications
 - Yorktown (NSWC)
- Wisconsin
 - Amptec
 - R. Strassau Laboratory
- West Virginia
 - Schonstedt Instrument Company
- Wyoming
 - Safariland (Defense Technology)



51 PM CCS suppliers in 22 states and 2 countries



How Industry Can Help

Information:

- Advise PM of critical 2nd/3rd tier at-risk suppliers
- Fully address Sources Sought Notices / include supporting info
- Provide current info on production & sustaining rates after resizing

Innovation:

- Flexible production lines
- Identify & mitigate diminishing sources
- Implement Better Buying Power (BBP) 2.0 initiatives

Opportunities:

- Direct Commercial Sales (DCS)
- Foreign Military Sales (FMS)
- Standardization of products & specifications



Thank you for your support to the American Soldier.





Back up



Team CCS Organization Structure

