

**MUNITIONS EXECUTIVE SUMMIT**

**Ammunition Enterprise**

**Cross Service Panel**

**BGen Michael M. Brogan**

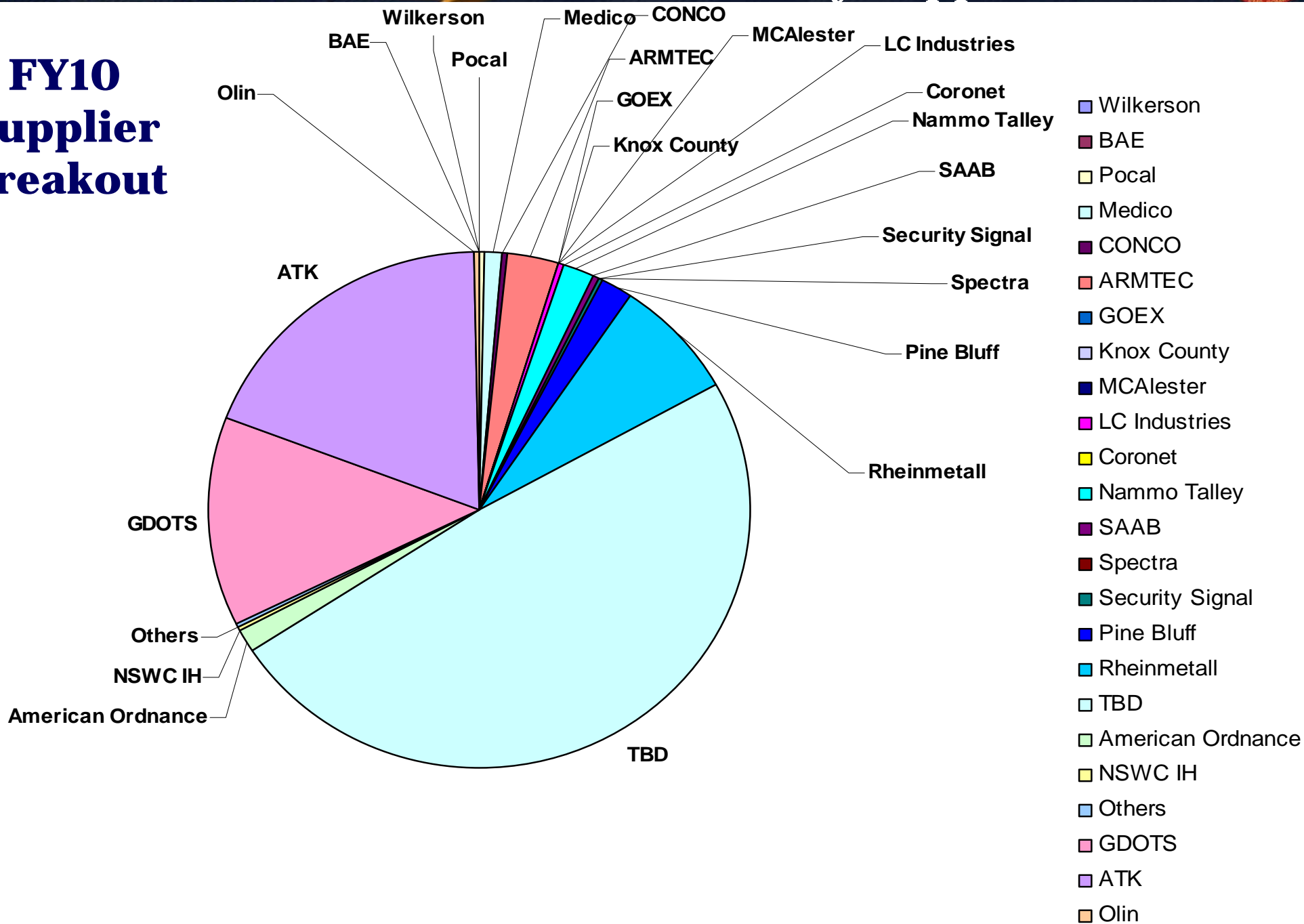
**Commander, Marine Corps Systems Command**



9 February, 2010



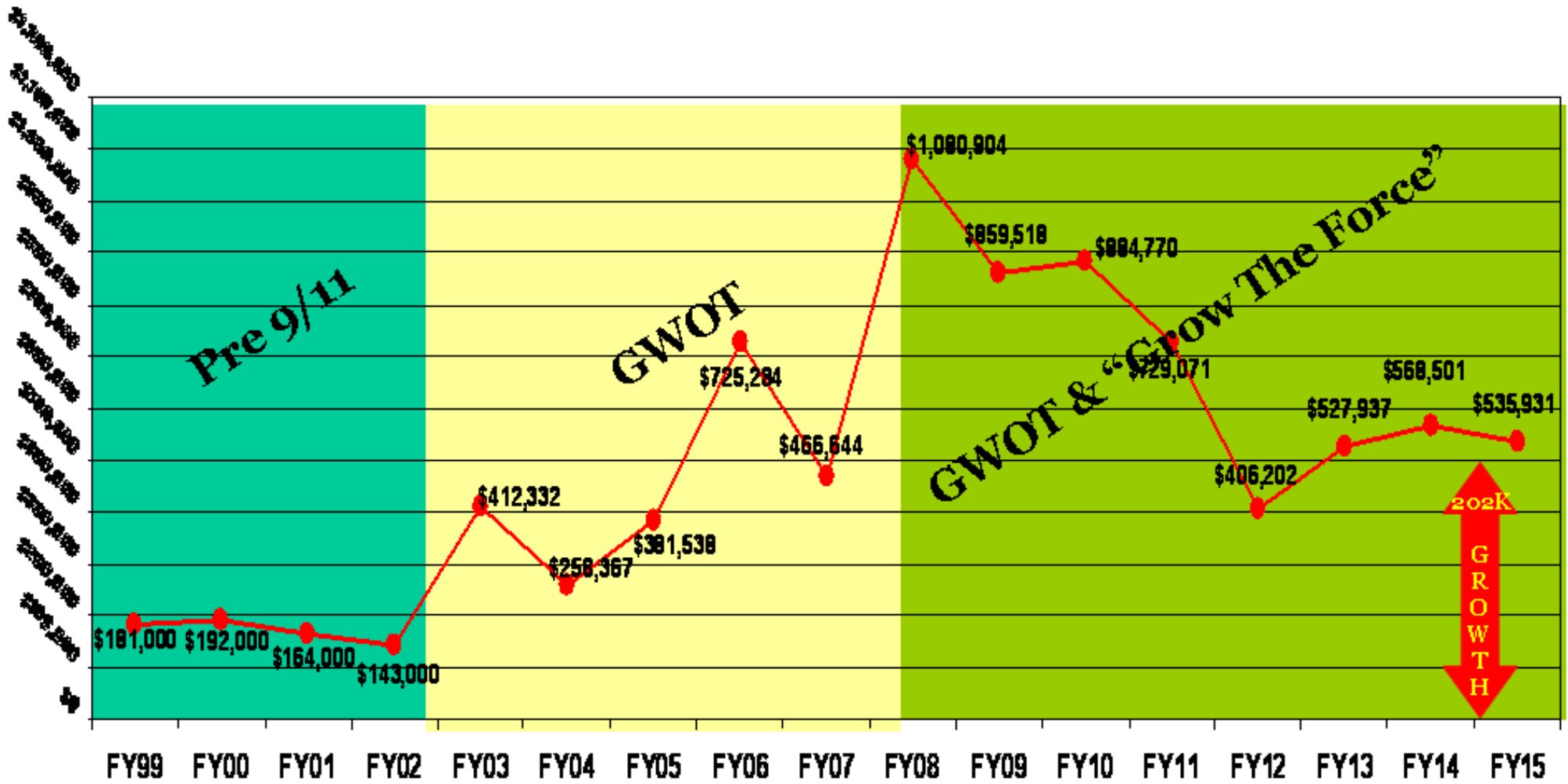
**FY10  
Supplier  
Breakout**

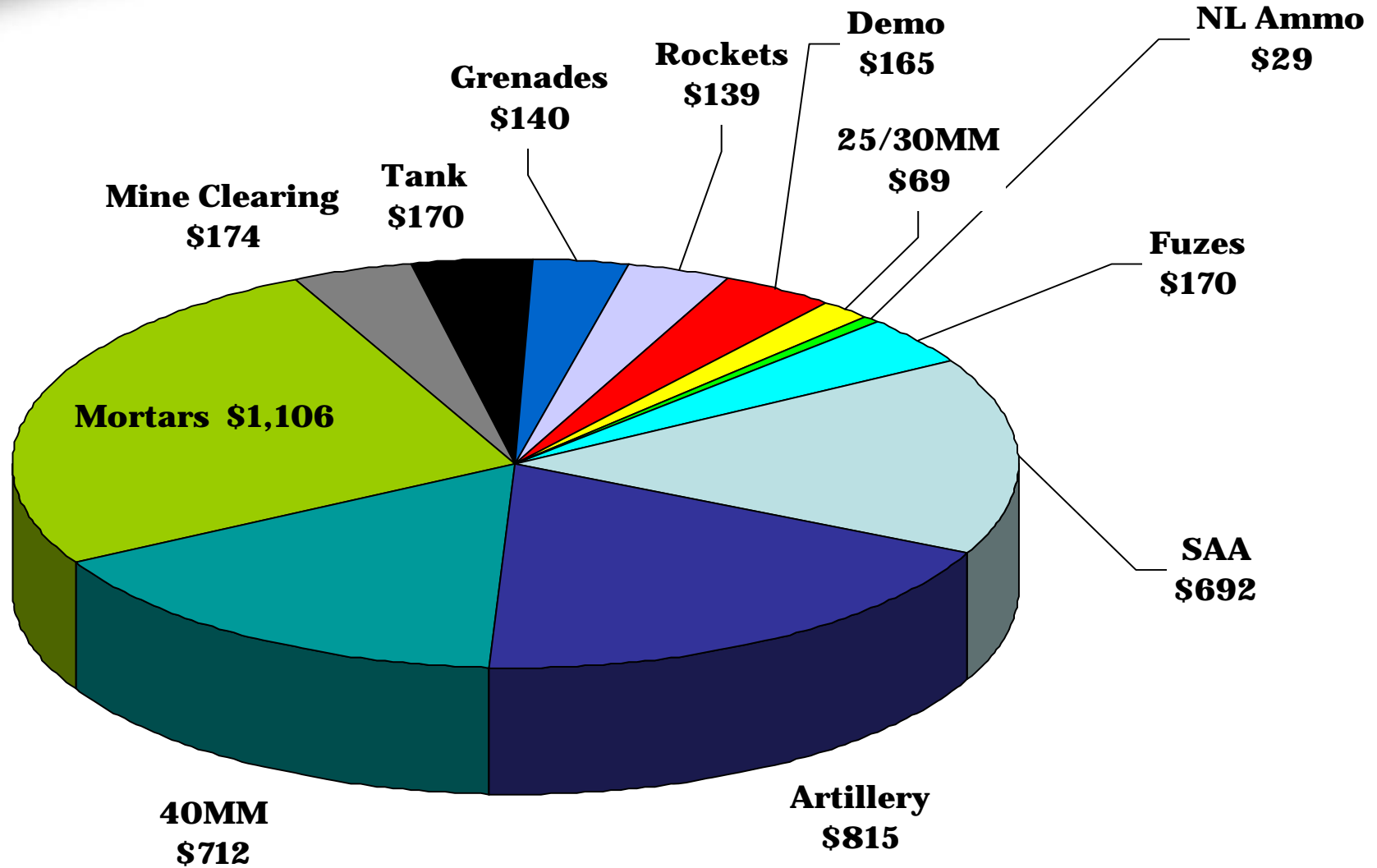


**Total Production Pipeline: 425 Open Orders @ \$2.4B**



**USMC Ammunition Investment  
(FY99 thru FY15)**





**FY09-FY15 Procurement Breakout = \$4.512B**  
(PRESBUD 09)

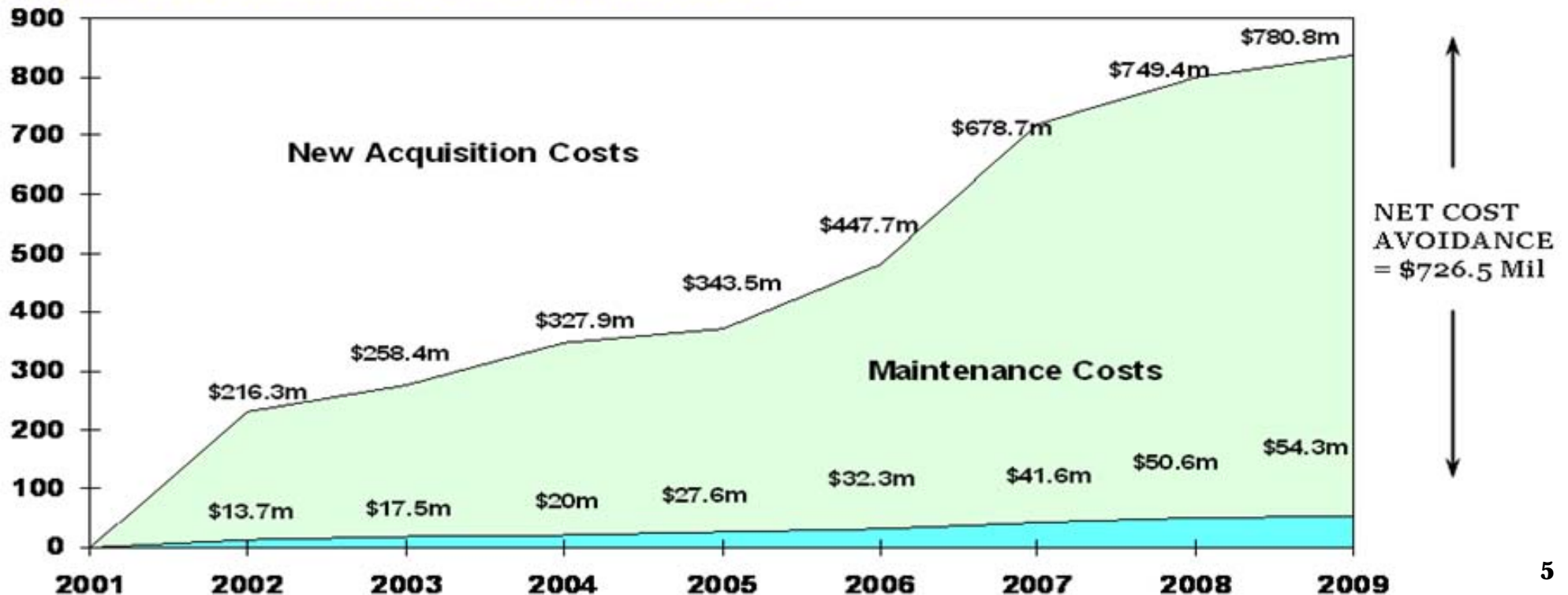


## Maintenance & Renovation

### “Cost Avoidance”



- Significant “RETURN ON INVESTMENT” (ROI)
- Cumulative Return on Investment (ROI).

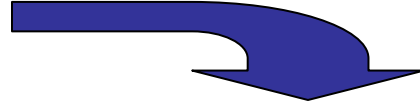




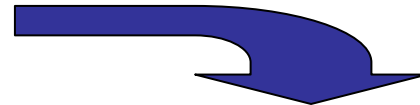
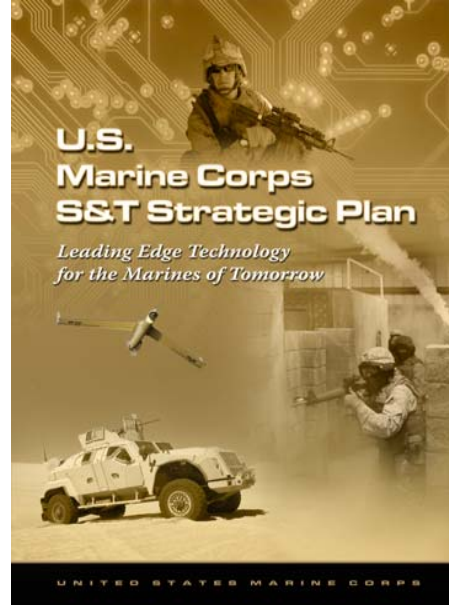


EQUIPPING THE WARFIGHTER TO WIN

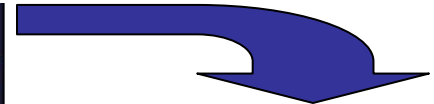
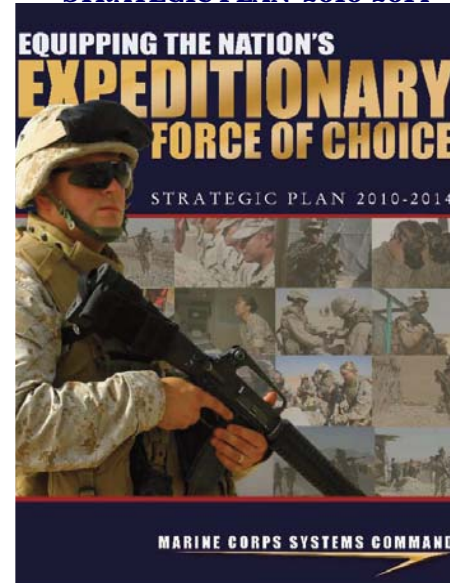
## USMC VISION & STRATEGY 2025



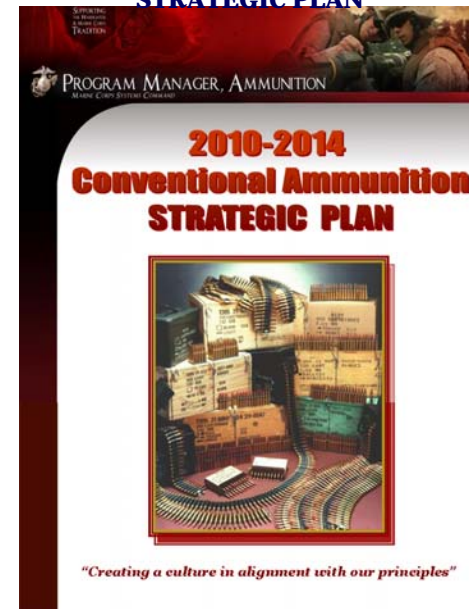
## 2009 USMC S&T STRATEGIC PLAN



## MARINE CORPS SYSTEMS COMMAND STRATEGIC PLAN 2010-2014



## PM AMMUNITION 2010-2014 CONVENTIONAL AMMUNITION STRATEGIC PLAN





- **Cluster Munitions Alternative's**
- **Landmine Replacement - (SPIDER Networked Munitions )**
- **USMC Shift to OEF; Precision!**
  - **Excalibur**
  - **Precision Guidance Kit (PGK)**
  - **120mm Precision Extended Range Mortar (PERM)**
- **2 Additional Tank Companies (FY11) + 28 M1A1's**
  - **120mm Multi-Purpose - capable of point- or delayed-detonation for anti-materiel application or air burst for anti-personnel**
  - **Full and Open Competition**





- **Shoulder Fired Rockets:**

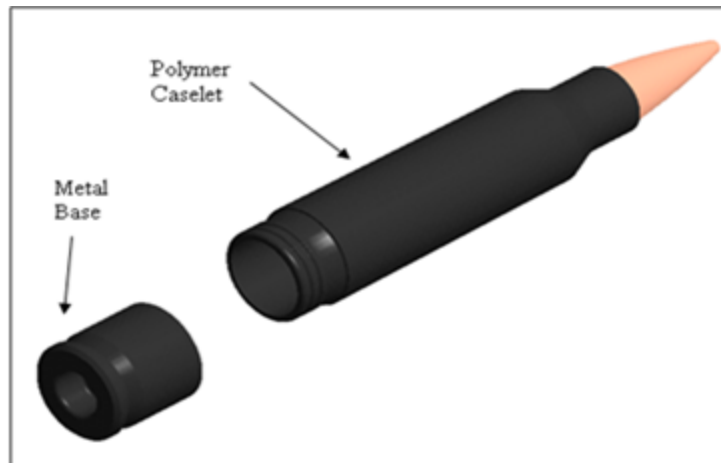


- **Increase M72 LAAW Procurements**

- **SMAW II FFE MP Warhead**



- **Polymer Cased Small Arms Ammunition**

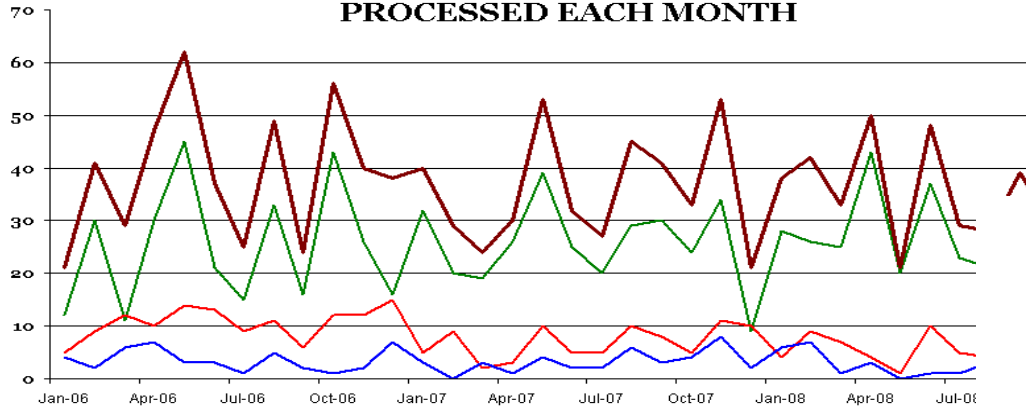






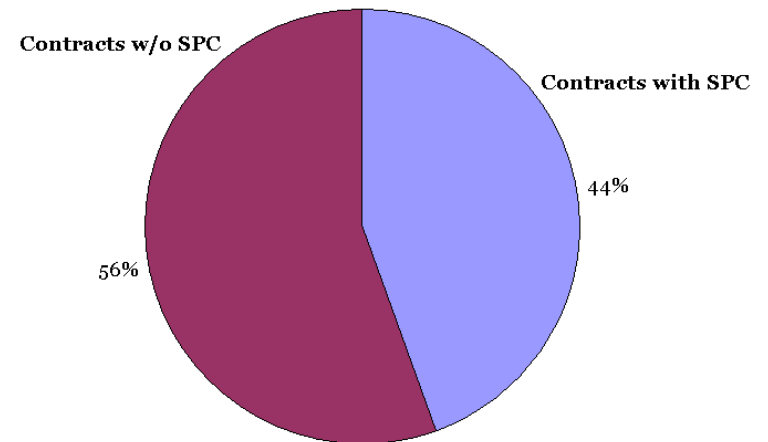
- **Quality Product Costs but, not as costly as.....**

**ECP's, RFW's, RFD's PROCESSED EACH MONTH**



|        | Jan-06 | Feb-06 | Mar-06 | Apr-06 | May-06 | Jun-06 | Jul-06 | Aug-06 | Sep-06 | Oct-06 | Nov-06 | Dec-06 | Jan-07 | Feb-07 | Mar-07 | Apr-07 | May-07 | Jun-07 | Jul-07 | Aug-07 | Sep-07 | Oct-07 | Nov-07 | Dec-07 | Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ECP    | 12     | 30     | 11     | 30     | 45     | 21     | 15     | 33     | 16     | 43     | 26     | 16     | 32     | 20     | 19     | 26     | 39     | 25     | 20     | 29     | 30     | 24     | 34     | 9      | 28     | 26     | 25     | 43     | 20     | 37     | 23     | 21     | 27     | 17     |
| RFD    | 5      | 9      | 12     | 10     | 14     | 13     | 9      | 11     | 6      | 12     | 12     | 15     | 5      | 9      | 2      | 3      | 10     | 5      | 5      | 10     | 8      | 5      | 11     | 10     | 4      | 9      | 7      | 4      | 1      | 10     | 5      | 4      | 9      | 12     |
| Totals | 21     | 41     | 29     | 47     | 62     | 37     | 25     | 49     | 24     | 56     | 40     | 38     | 40     | 29     | 24     | 30     | 53     | 32     | 27     | 46     | 41     | 33     | 53     | 21     | 38     | 42     | 33     | 50     | 21     | 48     | 29     | 28     | 39     | 30     |
| RFW    | 4      | 2      | 6      | 7      | 3      | 3      | 1      | 5      | 2      | 1      | 2      | 7      | 3      | 0      | 3      | 1      | 4      | 2      | 2      | 6      | 3      | 4      | 8      | 2      | 6      | 7      | 1      | 3      | 0      | 1      | 1      | 3      | 3      | 1      |

**PERCENTAGE OF CONTRACTS WITH SPC**





- **Modernization – Built in modularity**
- **Safer IM stockpile**
- **Heavy training cycles the inventory**
- **New = production risk**
- **HERO**

| IMSP Submission Cycle | None                                   | Tier I IM Reactions |      |     |      |     |      |           |      |      |     |      |     |      |        |
|-----------------------|--|---------------------|------|-----|------|-----|------|-----------|------|------|-----|------|-----|------|--------|
|                       |  | Baseline            |      |     |      |     | HC   | Projected |      |      |     | HC   |     |      |        |
| FY05-06               | SMAW DM                                | III                 | I    | V   | NA   | NA  | (F)  | 1.1E      | III  | I    | I   | I    | F   | (F)  |        |
|                       | SMAW HE AA                             | (0)                 | (0)  | (0) | (0)  | (F) | (F)  | 1.1E      | (V)  | (V)  | (V) | (V)  | (F) | (F)  |        |
|                       | SMAW NE                                | V                   | III  | V   | (M)  | NA  | NA   | 1.1E      | V    | (V)  | V   | (V)  | (F) | (F)  |        |
|                       | MCS-M59/59                             | V                   | V    | I   | I    | F   | NA   | 1.1D      | (M)  | (M)  | (M) | (M)  | (F) | (F)  | 1.1D   |
|                       | MCS-RM                                 | V                   | III  | IV  | V    | (P) | NA   | 1.3C      | (M)  | (M)  | (M) | (M)  | (F) | (F)  | UKN    |
|                       | CLAWS-WDU-411/B                        | IV                  | IV   | V   | V    | P   | NA   |           |      |      |     |      |     |      |        |
| FY07-08               | CLAWS-WPU-16/B                         | V                   | III  | V   | V    | P   | NA   |           |      |      |     |      |     |      |        |
|                       | EFSS (Baseline assessed on French TNT) | (II)                | (II) | (0) | (0)  | (F) | (F)  | 1.1E      |      |      |     |      |     |      |        |
|                       | EFSS 120mm HE                          | (II)                | (II) | (0) | (0)  | (F) | (F)  | 1.1C      | (M)  | (M)  | (M) | (M)  | (F) | (F)  |        |
|                       | EFSS 120mm Smoke                       | (M)                 | (M)  | (M) | (M)  | (P) | (F)  | 1.1H      | (M)  | (M)  | (M) | (M)  | (F) | (F)  |        |
|                       | EFSS 120mm Illum                       | (M)                 | (M)  | (M) | (M)  | (P) | (F)  | 1.2G      | (M)  | (M)  | (M) | (M)  | (F) | (F)  |        |
|                       | EFSS 120mm Practice                    | (M)                 | (M)  | (M) | (M)  | (P) | (F)  | 1.1E      | (M)  | (M)  | (M) | (M)  | (F) | (F)  |        |
|                       | 40mm MK 281 MOD 0                      | V                   | IV   | V   | (M)  | P   | NA   | 1.4C      | V    | IV   | V   | (M)  | F   | NA   |        |
|                       | 40mm MK 281 MOD 1                      | V                   | IV   | V   | (M)  | P   | NA   | 1.4C      | V    | (V)  | (M) | (M)  | F   | NA   |        |
|                       | SMAW DM                                | III                 | I    | V   | NA   | NA  | (F)  | 1.1E      | III  | I    | I   | I    | F   | (F)  |        |
|                       | SMAW HE AA                             | (0)                 | (0)  | (0) | (0)  | (F) | (F)  | 1.1E      | (V)  | (V)  | (V) | (V)  | (F) | (F)  |        |
| FY09-10               | SMAW NE                                | V                   | III  | V   | (M)  | NA  | NA   | 1.1E      | (V)  | (V)  | (V) | (V)  | (F) | (F)  |        |
|                       | MCS                                    | V                   | V    | I   | I    | F   | NA   | 1.1D      | (M)  | (M)  | (M) | (M)  | (F) | (F)  |        |
|                       | French TNT (info only)                 | (II)                | (II) | (0) | (0)  | (F) | (F)  | 1.1E      | (II) | (II) | (0) | (0)  | (F) | (F)  | 1.1E   |
|                       | EFSS 120mm HE                          | IV                  | V    | V   | III  | P   | (F)  | 1.2.1E    | IV   | V    | V   | (V)  | F   | (F)  | TBD    |
|                       | EFSS 120mm Smk (Projectile Only)       | (II)                | III  | IV  | III  | (P) | (F)  | 1.2.2H    | (V)  | (V)  | IV  | (V)  | (F) | (F)  | TBD    |
|                       | EFSS 120mm Illum                       | IV                  | V    | IV  | III  | P   | (F)  | 1.3G      | IV   | V    | IV  | (V)  | F   | (F)  | TBD    |
|                       | EFSS 120mm Practice                    | IV                  | V    | IV  | III  | P   | (F)  | 1.2.1E    | IV   | V    | IV  | (V)  | F   | (F)  | TBD    |
|                       | EFSS 120mm Tail Chrg Assembly          | (II)                | IV   | IV  | III  | (P) | (F)  | 1.2.1C    | (V)  | (V)  | IV  | (V)  | (F) | (F)  | TBD    |
|                       | EFSS 120mm Smk Mixed Pallet            | III                 | (II) | (V) | (II) | P   | (F)  | 1.2.1H    | (V)  | (M)  | (V) | (V)  | F   | (F)  | TBD    |
|                       | 40mm MK281 BA12                        | V                   | IV   | V   | (M)  | P   | (F)  | 1.4C      | V    | (M)  | (M) | (M)  | F   | (F)  | (1.4C) |
|                       | 40mm MK281 BA21                        | V                   | IV   | V   | (M)  | P   | (F)  | 1.4C      | (M)  | (M)  | (M) | (M)  | F   | (F)  | (1.4C) |
|                       | French TNT (info only)                 | (II)                | (II) | (0) | (0)  | (F) | (F)  | 1.1E      | (II) | (II) | (0) | (0)  | (F) | (F)  | 1.1E   |
|                       | EFSS 120mm HE                          | IV                  | V    | V   | III  | P   | (F)  | 1.2.1E    | (M)  | V    | V   | (V)  | F   | (F)  | 1.2.1E |
|                       | EFSS 120mm Smoke (Projectile Only)     | (II)                | III  | IV  | III  | (P) | (F)  | 1.2.2H    | (V)  | (V)  | IV  | (V)  | F   | (F)  | 1.2.2H |
| EFSS 120mm Illum      | IV                                     | V                   | IV   | III | P    | (F) | 1.3G | IV        | V    | IV   | (V) | F    | (F) | 1.3G |        |
| FY11-12               | EFSS 120mm Practice                    | IV                  | V    | IV  | III  | P   | (F)  | 1.2.1E    | (M)  | V    | IV  | (V)  | F   | (F)  | 1.2.1E |
|                       | EFSS 120mm Tail Charge Assembly        | (II)                | IV   | IV  | III  | (P) | (F)  | 1.2.1C    | (M)  | (M)  | IV  | (V)  | (F) | (F)  | 1.2.1C |
|                       | EFSS 120mm Smoke Mixed Pallet          | III                 | (II) | (V) | (II) | P   | (F)  | 1.2.1H    | (V)  | (M)  | (V) | (V)  | F   | (F)  | 1.2.1H |
|                       | M59/M58'                               | V                   | V    | I   | I    | F   | (F)  | 1.1D      | V    | V    | V   | (V)  | F   | (F)  | (1.1D) |
|                       | M1134A4                                | V                   | (M)  | V   | V    | (P) | UKN  | (1.4S)    | (M)  | (M)  | (M) | (M)  | F   | (F)  | UKN    |
|                       | MK22 MOD 4*                            | (IV/II)             | III  | V   | III  | (P) | UKN  | 1.3C      | (M)  | (M)  | V   | (M)  | F   | (F)  | UKN    |
|                       | 40mm HEDP - HV                         | (II)                | (0)  | (M) | (0)  | (F) | (F)  | 1.1E      | (II) | (II) | (M) | (II) | F   | (F)  | (1.2E) |
|                       | 40mm HEDP - LV                         | (II)                | (0)  | (M) | (0)  | (F) | (F)  | 1.1E      | (II) | (II) | (M) | (II) | F   | (F)  | (1.2E) |
|                       | SCSG                                   | (M)                 | (M)  | (M) | (M)  | (P) | (F)  | (1.4G)    | (M)  | (M)  | (M) | (M)  | F   | (F)  | (1.4G) |
|                       | SMAW II AUR                            | (M)                 | (M)  | (M) | (M)  | (P) | (F)  | 1.1E      | (M)  | (M)  | (M) | (M)  | F   | (F)  | TBD    |
| Warhead/Fuze          |  |                     |      |     |      |     |      | (M)       | (M)  | (M)  | (M) | F    | (F) |      |        |
| Launch/Propulsion     |  |                     |      |     |      |     |      | (M)       | (M)  | (M)  | (M) | F    | (F) |      |        |





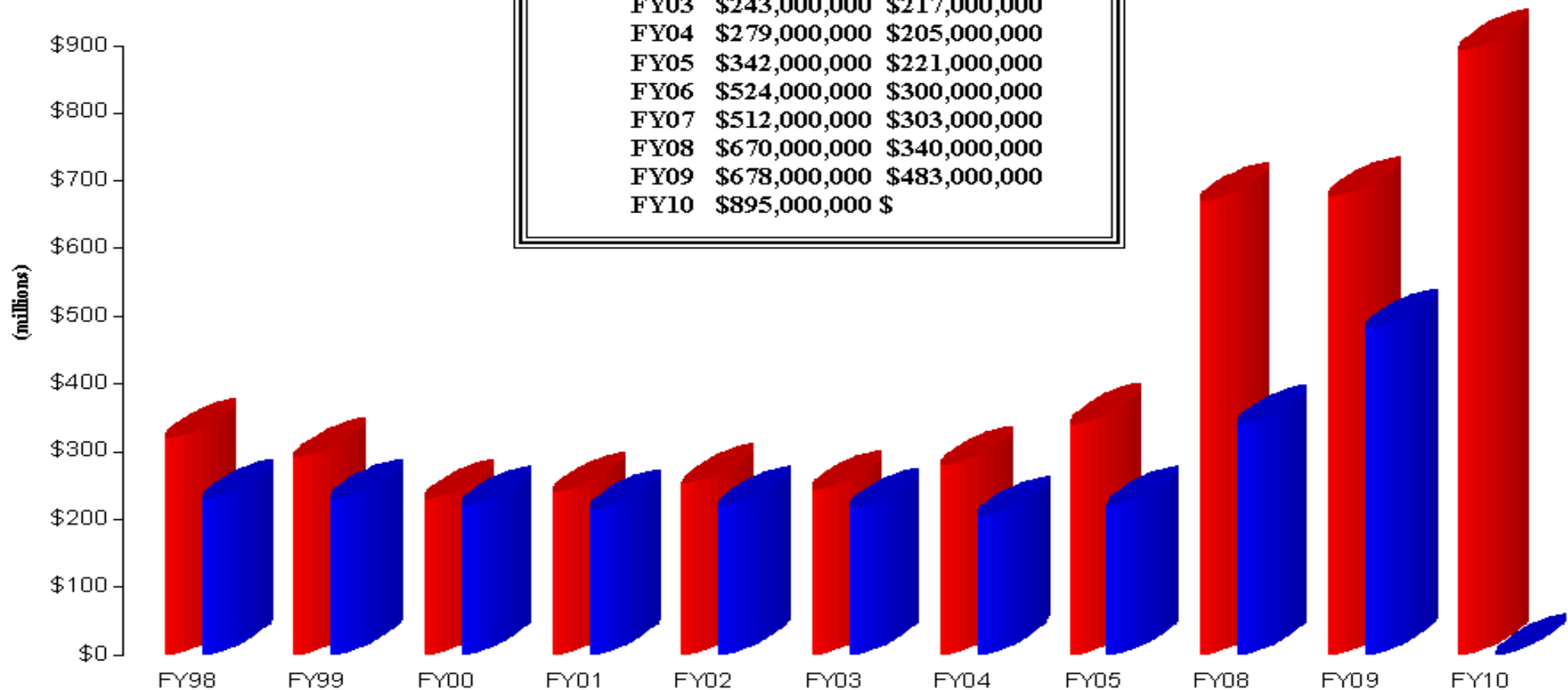
- **Unstable Funding Profiles**
- **Requirements Fluctuation**
- **Alignment of Procurements & Requirements**
- **Joint Ordnance Commanders awareness**
- **Continued Reliance on Industry**
- **Single Manager for Conventional Ammunition**
- **The Key to Success**
  - Collaboration
  - Open and Frank Communication
  - Reasonable Expectations

**Thank You**



## Annual Comparison Training Allowances vs. Training Expenditures

|      | <u>Allowances</u> | <u>Expenditures</u> |
|------|-------------------|---------------------|
| FY98 | \$320,000,000     | \$229,000,000       |
| FY99 | \$291,000,000     | \$231,000,000       |
| FY00 | \$230,000,000     | \$220,000,000       |
| FY01 | \$240,000,000     | \$215,000,000       |
| FY02 | \$253,000,000     | \$220,000,000       |
| FY03 | \$243,000,000     | \$217,000,000       |
| FY04 | \$279,000,000     | \$205,000,000       |
| FY05 | \$342,000,000     | \$221,000,000       |
| FY06 | \$524,000,000     | \$300,000,000       |
| FY07 | \$512,000,000     | \$303,000,000       |
| FY08 | \$670,000,000     | \$340,000,000       |
| FY09 | \$678,000,000     | \$483,000,000       |
| FY10 | \$895,000,000     | \$                  |







## **Strategic Plan Links**

- **USMC VISION & STRATEGY 2025**
- **2009 USMC S&T STRATEGIC PLAN**
- **MARINE CORPS SYSTEMS COMMAND STRATEGIC PLAN 2010-2014**
- **PM AMMUNITION 2010-2014 CONVENTIONAL AMMUNITION STRATEGIC PLAN**

### **If desired contact:**

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