Direct Fire Ammunition Industry View

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“Systems of Systems - Ammo?

• The Army is on the right path using a “System of Systems” approach to the development and fielding of the Objective Force

• This same approach must flow down to the ammunition level – FCS Platform ammunition needs to be developed concurrently as a system within a system….

Concurrent systems development is the most efficient approach to ensure successful transformation of the Army into the most deployable and effective force in the world
Trades Are Critical

- Concurrent systems development of the ammunition enables the trades required to develop and field the most efficient and effective lethal capability against the platform target spectrum
- Balance of key parameters and cost within the ammunition suite to provide a best value platform lethality solution

Ammunition Trades

Range  Logistics  Lethality
Cost  Commonality  Maintainable  Producibility

Best Value Ammunition Solution
Maximize the Benefits of the Entire Suite

- A concurrent systems approach reduces the risk of capability gaps and enables maximum component commonality
  - Trades dictate individual round configuration and capabilities within the ammunition family

<table>
<thead>
<tr>
<th>Component Commonality</th>
<th>1km</th>
<th>2km</th>
<th>3km</th>
<th>15km</th>
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<td>KE</td>
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<td>MRM-CE</td>
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<td>Canister</td>
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<td>Non-Lethal</td>
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- Tanks
- Bunkers, Structures, Soft Targets
- Air Targets
- Infantry
- Non-Combatants
Spiral Development of the Ammo System

- Provides a cohesive spiral development path for the platform ammunition suite – technology development and block upgrades are incorporated from an ammunition systems perspective
  - Ensures the most efficient use of Government S&T funding eliminating redundant efforts
  - Optimal leveraging of technology development across the ammunition suite
We Can Get There!

- The Army must approach the development of platform ammunition as a key system within the FCS “system of systems”
  - The Army cannot afford to fund and develop an FCS ammunition development as independent rounds.
  - Piecemeal funding and development will not achieve best value and performance
- The FCS platform ammunition must be developed concurrently as a system to achieve the highest level capability in the most cost effective manner

Ultimately, the lethality of the Objective Force will be determined by the effectiveness of the ammunition