







- Common Smart Submunition is an Army Technology Objective (ATO) that began in FY05 and was completed 31 Mar 09
 - CSS will provide an increased capability to the warfighter through a variety of platforms (missiles, projectiles and UAS)
 - Achieved TRL 5

TERIN

 Textron (Prime Contractor) was awarded a 40 month contract to build prototype submunition



ATO Focus



Requirements

- Defeat T 90 armor
- < 10 lbs
- < \$10K/submunition</p>
- Probability of Detection >.95
- <128mm
- Multiple platform applicability
- UXO <1%

SHILL

- *This is an average from two tests
- ** All Systems are designed for meeting this requirement

Achievements Met 8.62 lbs \$7.5K/10,000/yr >.85* 128mm Met TBD**



HITEHIN

CSS Concept of Operations



Applications:

Dispense From Carrier







Technologies Explored

- Sensors
- Algorithms
- Warhead
- Orientation and Stabilization











Orientation and Stabilization -helo drop











CSS Sensor Overview









Captive Flight Testing









- Standoff: 100 m
- Dynamics: 30 hertz @ 30° angle
- Warhead Type: Combined Effects
 -SEFP
 - Accuracy: 50 cm @ 100 m
 - Penetration:
 - Proof Target: X
 - Semi-Infinite Penetration: Y
 - -MEFP
 - Alternate spay angles (0.4° & 0.8° ± 0.4°)
 - Penetration: Z (70 m.)
 - Velocity at 100 m





Desired on Target Pattern





CSS Current Design



Common Smart Submunition (CSS)







Summary



- ATO completion March 09 TRL 5 achieved
- Continuing efforts for Scorpion, 155mm Projectile, NLOS-T and UAS
- Congressional program for UAS application









