



# RDECOM-ARDEC Smart/Precision Munitions

# Current Trends & Objectives

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# Smart/Precision Munitions Must Be:

Low Cost

**Inexpensive** 

**LETHAL!** 

**Affordable** 

### HASC Committee Report

"The Committee is concerned that the Army has paid insufficient attention to the projected cost of its precision guided indirect fire munitions. The Committee cannot justify artillery rounds costing \$25,000 to \$35,000 per round given the number of rounds the Army needs for training and for the war fight. At these costs, the Army will never be able to integrate precision guided munitions into its warfighting doctrine and tactics for anything more than "silver bullet" extraordinary requirements."





## Key Trends & Objectives

- Technology is Improving
  - Design Tools (Faster Development Cycle)
  - Digitized Battlefield (Reduce TLE and Response Time)
  - Lower Cost Components
- Don't Neglect Man-in-the-Loop
  - Still Superior in Many Ways
- System Solutions not just the Bullet
  - New Designator -> New Seeker and vice-versa
  - Smaller Seeker Footprints?
- Focus on Performing in Challenging Environments

### Common Smart Submunition (CSS)

"Affordable, Multiple Application Precision Munition"

OBJECTIVE: Build an affordable, smaller, and lethal smart submunition applicable for the Army's Indirect Fire projectile and missile artillery platforms; and utility for potential Air Force and Navy carrier applications.

APPROACH: Use "Common Guidance/Common Sense" paradigm in system design to force commonality and modularity of components. Leverage New Technology to Reduce Size & Cost and Improve Performance. Defeat multiple Target Types.

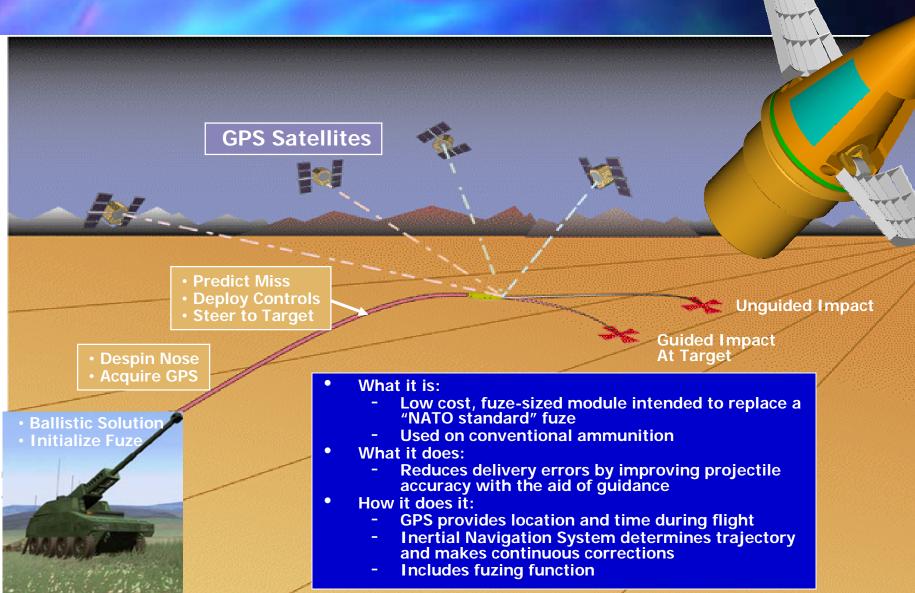


#### **TECHNOLOGY**

LADAR/IR Sensors Next Gen EFP Novel Decelerators Microprocessors Accurate Delivery







### Summary

- Affordability & Performance Challenges
- System & Joint View Offer Opportunities
- CAIV & Mindset are Critical to Success

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