

Agenda

 Advanced Cannon Artillery Ammunition Program (ACA²P)



 ACA²P Technologies for Full Spectrum Operations



PM CAS Artillery Ammunition Strategy

- Field Advanced Cannon Artillery Ammunition for the Objective Force:
 - > Full spectrum effects
 - > 30 Km Range (threshold)
 - > Ballistic Similitude
 - > Improved Accuracy
 - > Reduced logistics burden
 - > Affordable

Advanced Cannon Artillery Ammunition Program (ACA²P)



- US Army program to
 - Achieve Army Artillery Transformation requirements
 - Field a complete "family" of non-developmental (NDI) conventional 105mm & 155mm artillery ammunition
 - Recapitalize older stocks and improve inventory
 - Reinvigorate U.S. ammo production base

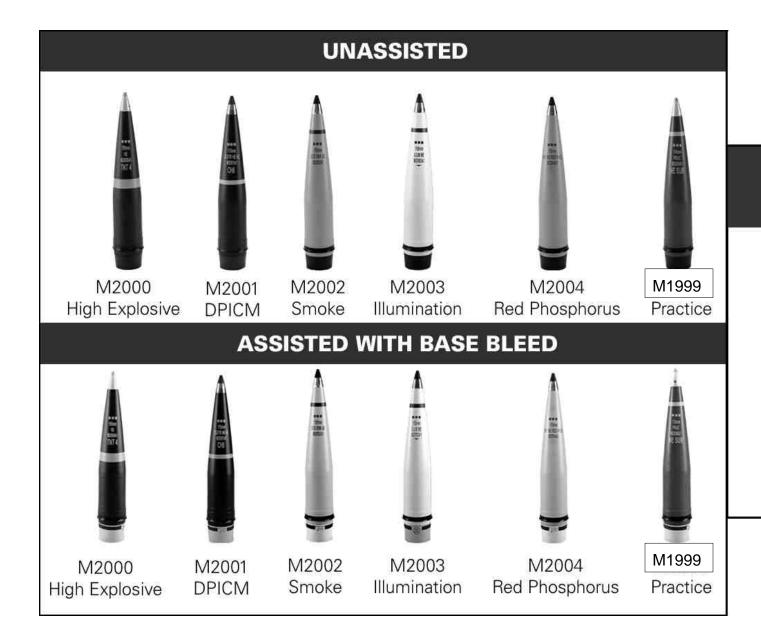
Alleviate strain on stockpile readiness



Denel & GD-OTS
Teamed in N. America

Denel 155 Ammunition Suite



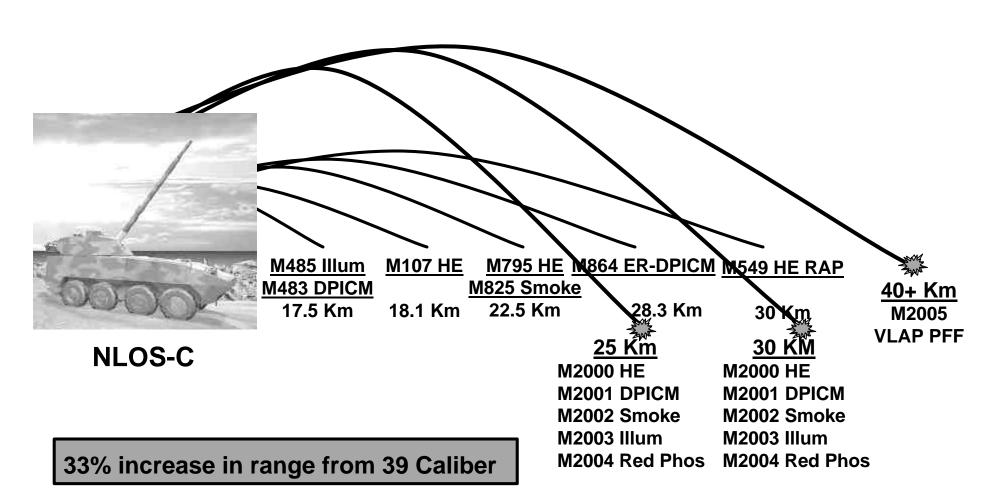


EXTENDED RANGE HE



Increased Operational Range

(U.S. 155mm compared with GD/Denel)



GENERAL DYNAMICS

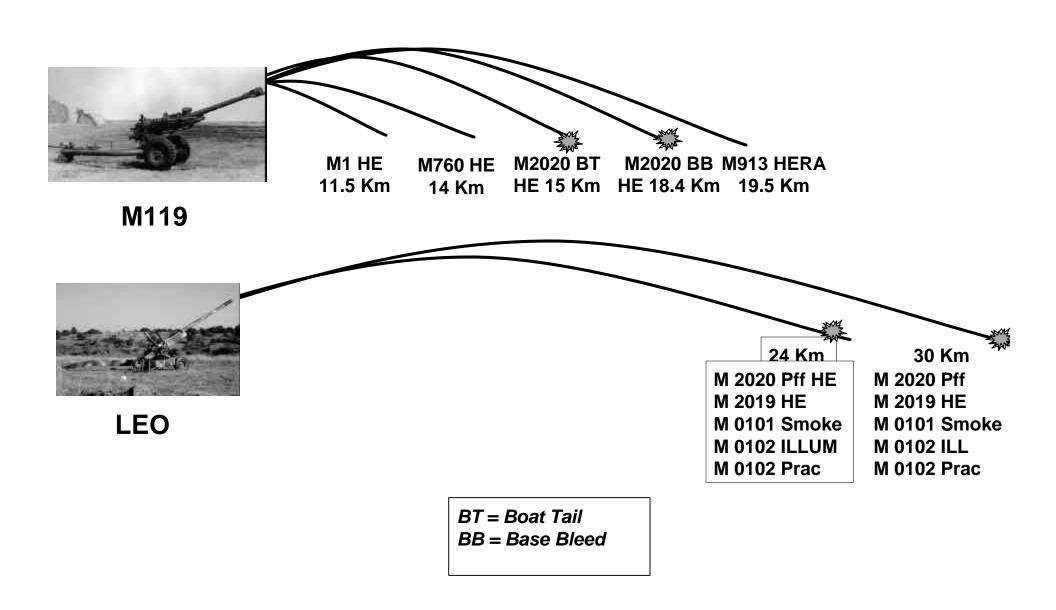
Ordnance and Tactical Systems



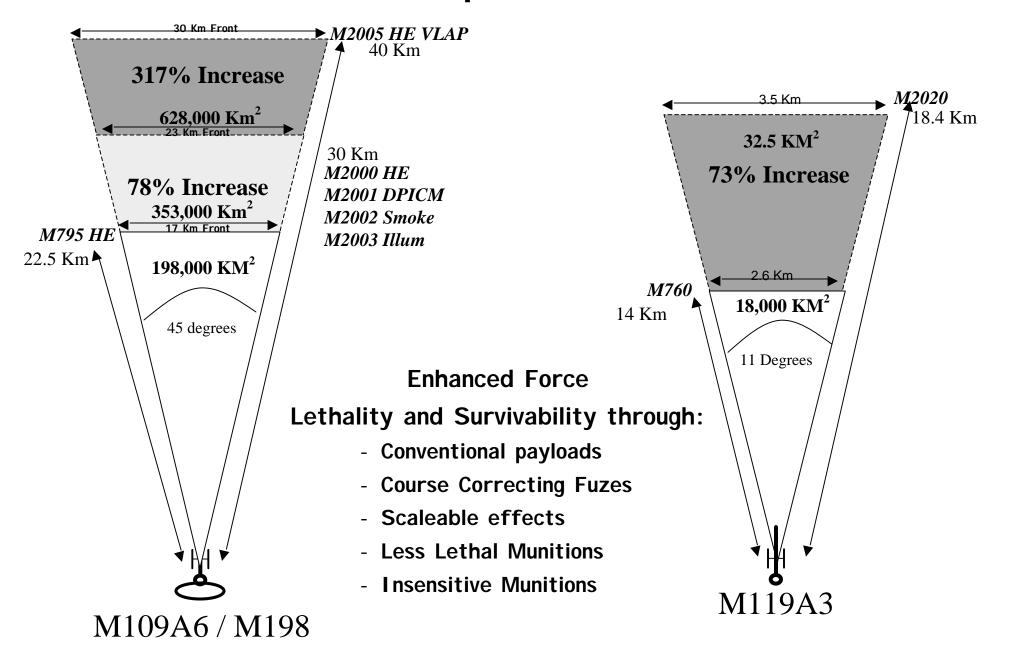


Increased Operational Reach

U.S. and Denel 105mm Range Comparison



Increased Operational Reach

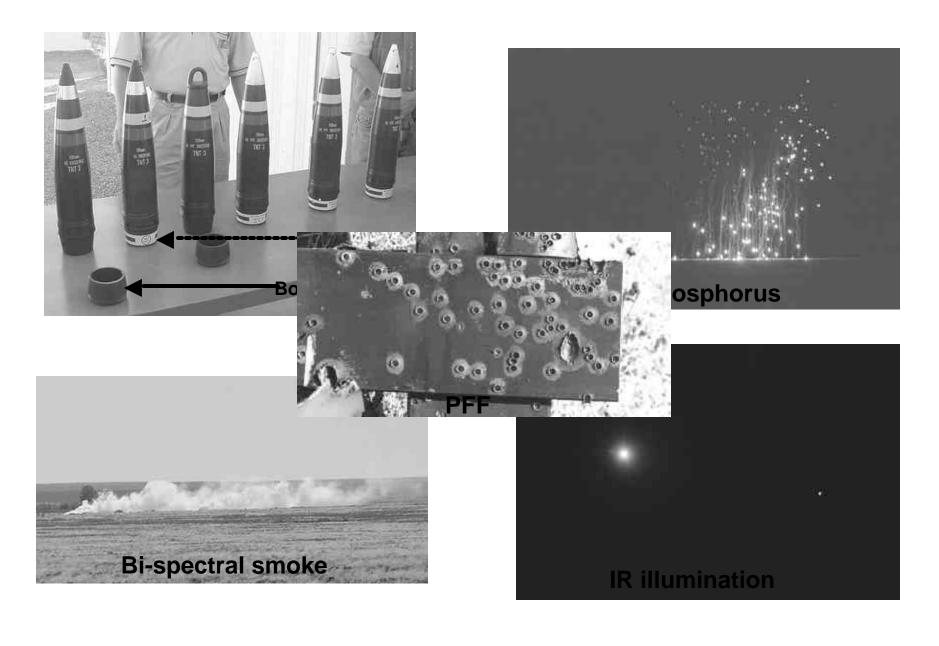


ACA²P Technologies

- Ranges exceeding 30 km from 39 caliber gun; M2005 V-LAP achieves +40 km, thus achieving NLOS-C requirements
- Aerodynamic profile aids in achieving long range accuracy requirement
- Lethality using Pre-formed Fragmentation (PFF)
- Ballistically Matched Ammunition Family; requires only one ballistic firing table.
- Infra-red Illumination
- Environmentally friendly, cool burning Bi-spectral smoke
- Field interchangeable Base-bleed & Boat-tail units reduce logistics



Technology Demonstrated - 29 Jan 2003 in RSA



Joint ACA²P Users

Artillery Platforms for Objective, SBCT, and Legacy Forces



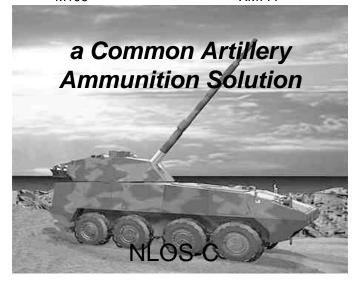
M119



M198



XM777



USAF AC-130

Other Service Platforms



M109A6



Cannon Artillery Program Strategy

- Type classify 105mm and 155mm HE by FY05
- Conduct Engineering Assessment of IR Illumination and Bi-spectral smoke in FY03
- Continue Operational Analyses
- Production of artillery will remain in N. America using existing ammunition industrial base
- PM Combat Ammunition Systems (PM CAS) has program management responsibility

