

Non-Life of Sight Launch System Program Update

Precision Strike Association Summer PEO Forum

7 Jul 04

Rod Summers Director, NLOS-LS Task Force (256) 313-1049



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Terminology

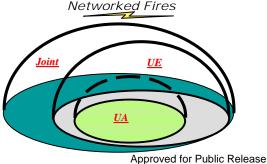
UNCLASSIFIED

- "NetFires" = Past DARPA Technology Demonstration Program
- Non Line of Sight Launch Systems = Current Army Programs
 - Annex in Future Combat System (FCS) Operational Requirements Document (ORD)
- "Networked Fires" = Term Used to Refer to Combination of FCS Weapons and Supporting C4ISR

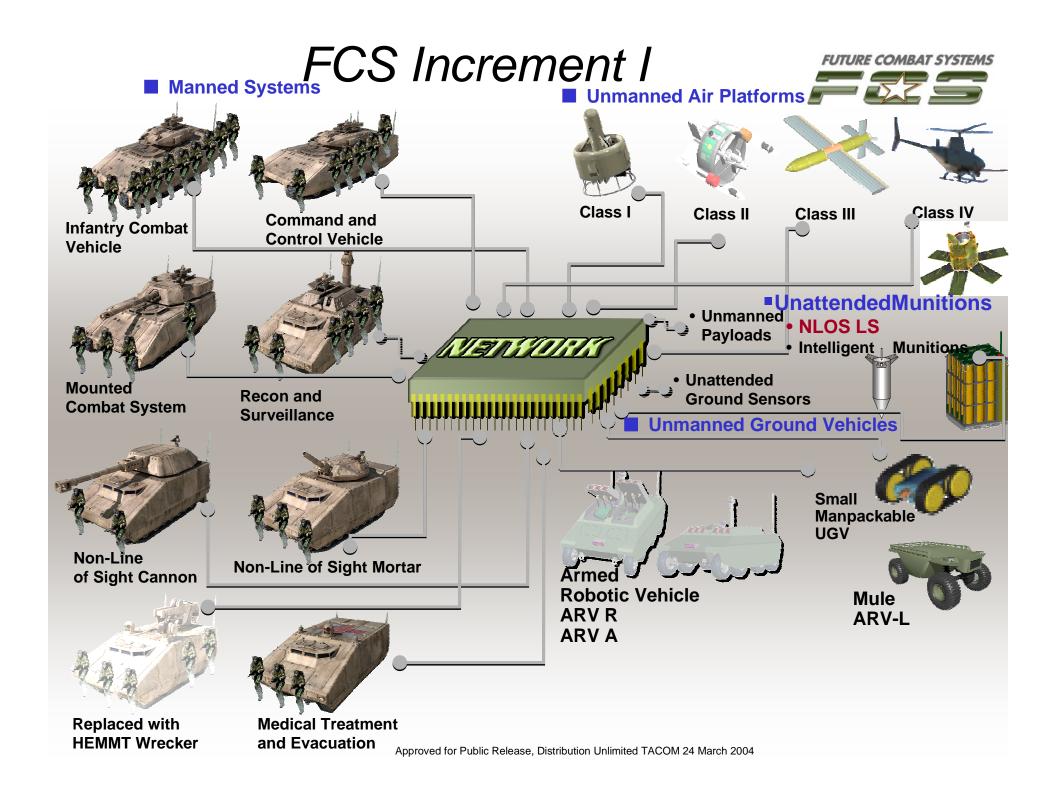


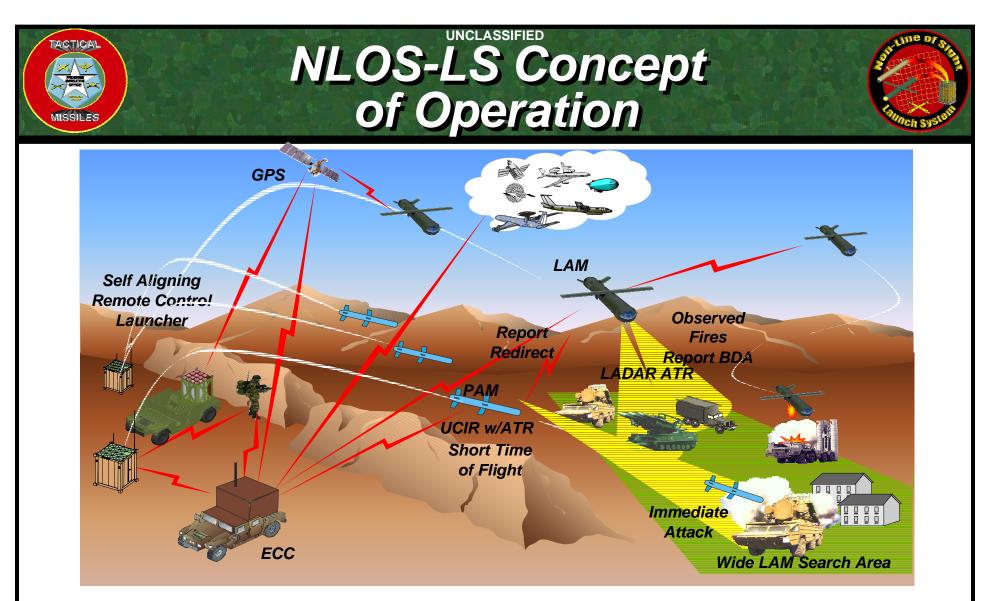






TACTICA



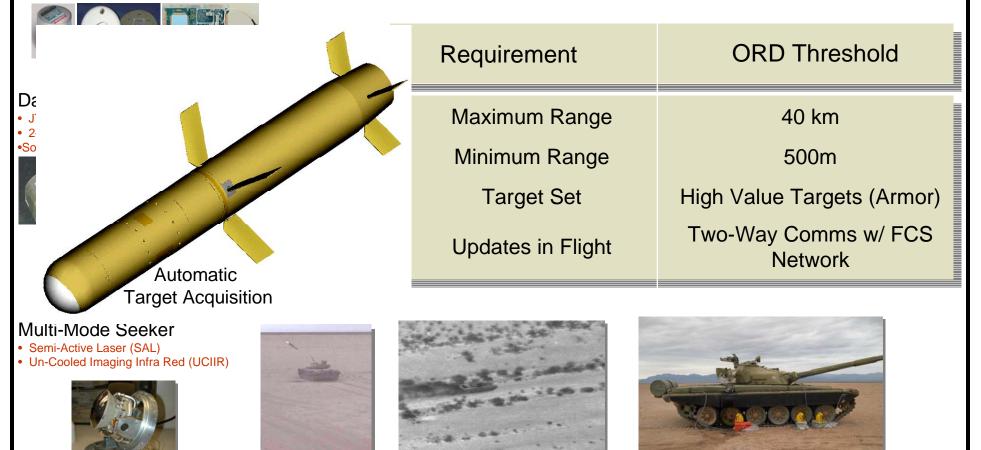


- Provide responsive, <u>networked</u>, <u>extended-range targeting</u> and <u>precision attack</u> of armored, lightly armored and other stationary and moving targets during day/night and near all weather conditions
- Be highly <u>deployable</u> and <u>platform independent</u>

	oiter At Technic et Engine	tack Missile cal Requirem	(LAM) ents
	Low Cost Turbojet	Requirement	ORD Threshold
		Maximum Range (INF Treaty) Minimum Range Typical Range with Loiter (km) Target Set Updates in Flight	< 480 km 500m 70km w/ 30 min loiter High Value Targets (TEL/MRL) Two-Way Comms w/ FCS Network
LADAR Seeker		ition	

Precision Attack Missile (PAM) Technical Requirements

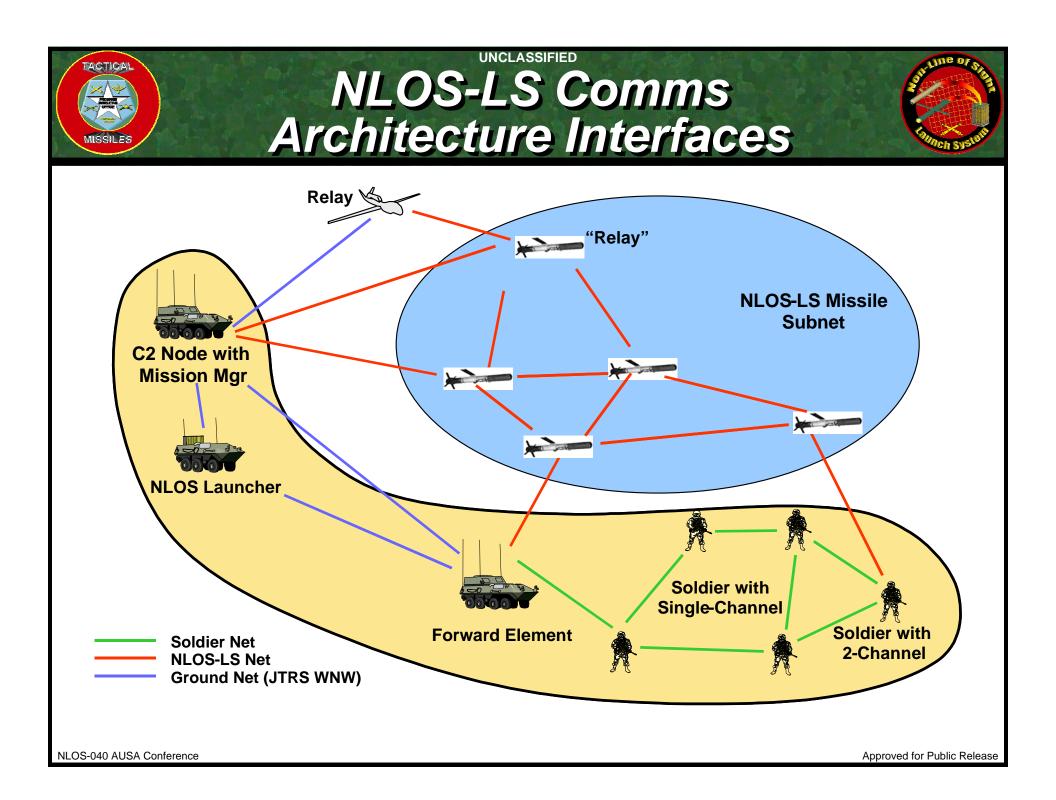
GPS/INS Navigation System



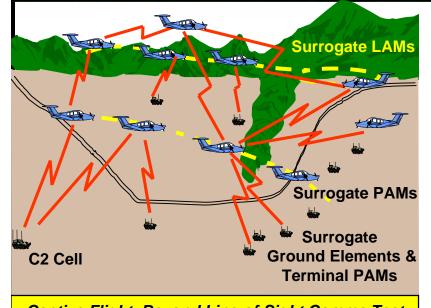
PAM Provides A 40km Precision Kill Capability Against Moving Armored Targets Using Laser Guidance or Automatic Target Recognition

NLOS-040 AUSA Conference

Approved for Public Release



Networked Communications For NLOS-LS STO



Captive Flight, Beyond Line-of-Sight Comms Test

Test Area (20 x 60 km) Extends Up and Over the Cumberland Ridge

Control Node Located at Fayettevile, TN Airport

Monitors all Comms Traffic in the 20-node Test
Performs Analysis of Network Performance

Purpose:

Develop & test communications networking for NLOS-LS missiles.

AMRDEC Products:

- Soldier Radio Waveform prototype (Mode 3)
- Missile Network Waveform prototype (risk mitigation)
- Two form-factored, prototype JTRS missile radios
- Test results on both waveforms and both radios
- NLOS-LS Networking Requirements

Status:

- Test Operations being conducted in TN
- Runs for record begin next month