

Today's Operational & Organizational Surrogates

4-9 Infantry Battalion (Stryker) with Land Warrior

- Data and voice to individual leaders (team, squad, platoon, company, battalion) plus medics and snipers
 - Communication, navigation, data (optics, imagery, map, messages)
 - Connects all Stryker drivers and vehicle commanders to dismounts
 - Hand held Day Video Sight allows gathering information without pointing a weapon in their face
- Platoon Leader "Land Warrior gave me confidence as I planned to coordinate for a blind hit, at night for the first time in this area."

TF ODIN (Observe, Detect, Identify, Neutralize)

- Counter IED fight Reconnaissance Surveillance Target Acquisition operations -- win back roads using Aviation assets for persistent stare over IED at-risk areas
- Uses FCS BCT RSTA Squadron missions:
 - Enable BCT freedom of action, speed, assured mobility
 - Mine/IED/Unexploded ordnance detection
- Teams manned and un-manned air and ground
- Unmanned systems cuing manned systems for over watch and persistent surveillance
- Unmanned systems identify caches, IEDs, and Ammo Supply Points
- TTPs for layering sensors

Today's Operational & Organizational Surrogates

FCS Technologies already in combat

- Micro Air Vehicle UAV Class I
- PackBot Small Unmanned Ground Vehicle
- TNT sensors
- Advanced armor frag kits
- Countermine change detection sensor

Command Post of the Future (CPOF)

- Connects static command posts (corps to battalion) using fiber optics
- Collaborating in real time to generate, share and evaluate
- Commanders and staff manage and share their C2 resources and expertise over far distances in real time
- Information displayed the way each user thinks about it – easily moves across visual products, automatically taking desired form

Joint Nodal Network (JNN)

- Secure and non-secure network access to brigade or battalion
- Battlefield Video-Teleconferencing, Voice over IP (internet phone), email

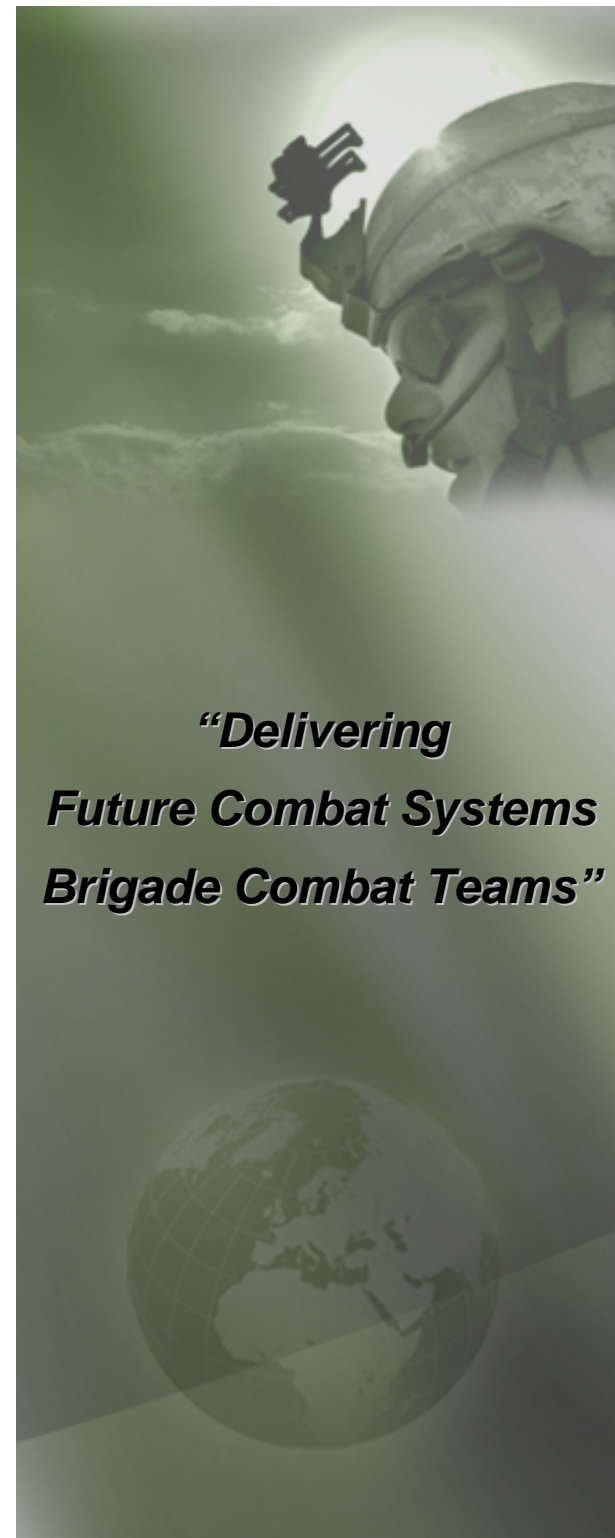
5th Brigade, 1st Armored Division

- Army Evaluation Task Force for FCS
- Seasoned combat veterans putting FCS technologies through extensive evaluations and tests

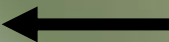


Army Capabilities Integration Center (ARCIC)
US. Army Training & Doctrine Command
www.arcic.army.mil

22FEB08



Performance¹



Future Combat Systems Brigade Combat Team



Effectiveness²

Deployment

- 1/3 fewer sorties than Heavy BCT
- Closed 1/4 faster by sea than Heavy BCT

Lethality

- Acquires 3 X number of enemy
- Kills up to 70% more threats

Maneuver

- 30 – 40% faster than Heavy BCT
- Ready to fight upon arrival
- Covers twice the Area of Operations
- More than double infantry in squads with hundreds fewer Soldiers than Heavy BCT; more infantry squads than Infantry BCT

Survivability

- 1/4 to 1/3 fewer casualties than HBCT

Sustainment

- Self sustain 3 times longer
- Support Soldiers @ 1/10 vs. HBCT @ 1/3
- Maintenance to operating hours 10 times better than HBCT (1:2 vs. 1:20)
- 1/3 fewer Short Tons daily resupply

Battle Command

- Info shared 30% faster
- Connection to all Services & Agencies while on the move



Operation Anaconda Mar 02

- Empowered dismounted fight
- Counter entrenched enemy, rough terrain, and bad weather using robots & UAVs for dangerous cave recon
- Attack withdrawing enemy using unattended sensors and NLOS-LS

TF 1-63 Armor Bashur Airfield Iraq Apr 03

- Deliver combat battalion vice company over same time
- 5 C-17 sorties left over for supplies

Fallujah Nov 04

- 5 battalions versus 10 ground battalions
- “House to house” with robots and UAVs
- Under a month vs. 2 months

Hurricane Katrina Aug 05

- Network to connect federal, state, and local government allows best use of scarce assets (locate survivors with UAVs and robots)
- Power critical buildings with hybrid electric vehicles

Provincial Reconstruction Teams 2007

- Every FCS manned vehicle supports Combat Camera to be first with truth
- 78 squads with infantry for distributed security

Sub-Sahara Africa ??

- Rapid deployment; cover twice the area
- Quick shifts from rebuilding to high intensity fight and back
- Sustain in austere environment three times longer

Loose Nuclear Weapons ??

- Large country, rough terrain, remote regions, very limited land routes, perhaps 100 target points
- Ground combat vehicles that max all types of lift
- Agile mounted force controls sensitive sites and fights off counter attacks

¹ Analysis Summary 1999-2007: Counter insurgency, Major combat, stability operations

² Past or projected operations with FCS capabilities