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IRONHORSE...Leading America's Army in the 21st Century!



Digitization...

...A Warfighter's Perspective

***National Defense Industrial Association
Symposium***

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AGENDA

- ***Digitized Division***

- ❖ *What Makes Us Different...*
- ❖ *Digitization Provides...*

- ***Division Capstone Exercise (DCX)***

- ❖ *Fire Support Observations*

Digitized Axioms

- ❖ *A Warfighter's View*

- ***Challenges Ahead***

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What Makes us Different...

...Technology...

... Optimizing new systems to increase lethality

MCS



ASAS



FBCB2



AFATDS



CSS/CS



What Makes Us Different.....Dominant Maneuver

Other Heavy Divisions

Digitized Division



- ↳ Limited night capability
- ↳ Non-digital
- ↳ Single thermal sight 2nd generation FLIR
- ↳ FBCB2 Digital C2
- ↳ Cdr's Independent Thermal Viewer
- ↳ Under-armor aux power unit



- ↳ Limited night capability
- ↳ Non-digital
- ↳ No rangefinder
- ↳ Improved FLIR
- ↳ FBCB2 Digital C2
- ↳ Laser Rangefinder



- ↳ Laser guided missiles
- ↳ Night capable
- ↳ Non-digital
- ↳ Radar guided, fire-and-forget missiles
- ↳ Night and adverse weather capable
- ↳ Fully digitized



- ↳ 25mm gun
- ↳ Stinger team dismounts to engage
- ↳ Non-digital
- ↳ Fires from integrated launcher
- ↳ FAADC2 system
- ↳ Slew-to-Cue capability



What Makes Us Different.....Precision Engagement

Other Heavy Divisions



- ⇐ ATACMS capable (165 km)
- ⇐ 32 km range (non-ATACMS)
- ⇐ 93 seconds to fire
- ⇐ 216 seconds to reload

- ATACMS Block II capable (300 km) ⇐
- 45 km range (ER) ⇐
- 16 seconds to fire ⇐
- 160 seconds to reload ⇐

Digitized Division



- ⇐ 30 km range
- ⇐ Firing crew of 6
- ⇐ AFCS

- 30 km range ⇐
- Firing crew of 6 ⇐
- EDS/FBCB2 ⇐



- ⇐ M113 Chassis
- ⇐ GVLLD
- ⇐ HTU

- M113 Chassis ⇐
- GVLLD ⇐
- FOS LCU/FBCB2 ⇐





Digitization Provides...

- ***Situational Awareness:***
 - ***Knowing where we are***
 - ***Knowing where the enemy is***
 - ***Knowing where we are at risk; where the enemy is vulnerable***
- ***Situational Understanding:***
 - ***Assessing what the enemy will do***
 - ***Collaborating to synchronize***
- ***Battlespace Dominance:***
 - ***Defeating the enemy at a time and place of our choosing***



The Synergy of.....

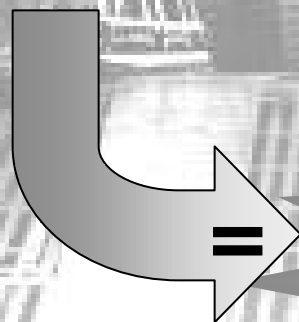
Fundamentals

+

Situational Awareness

+

Situational Understanding



***Situational
Dominance***



Division Capstone Exercise

“The Division Capstone Exercise clearly demonstrated what well-trained and competent leaders can do when they leverage information and use it as an element of combat power.”

***--- BG J.D. Thurman,
NTC Commanding General,
on DCX I***

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Division Capstone Exercise

- **Demonstration of Warfighting Capability**
 - Exercise - not a test or a certification
- **Phase I**
 - NTC Rotation 01-06
 - 11 Mar-21 Apr 2001
- **Phase II**
 - BCTP WFX 02-01
 - Fort Hood Battle Simulation Center
 - Field CPs
 - 15-19 Oct 01



Kartuna



DCX I Fire Support Observations

❖ What We've Accomplished:

- ✓ Streamlined Division-level Counterfire Fight***
- ✓ Power of the Fire Support Client***
- ✓ Improved Situational Awareness***

❖ What We Need to Fix:

- Dated Fire-Support Platforms***
- Target Location Error***
- Communications Architecture***



Digitized Axioms

- ❖ **Digitization Is for Everyone**
 - Most Soldiers Use Digital Device(s)
- ❖ **Training Fundamentals Remain Important**
 - Gate Strategy; Individual, Crew, Collective
- ❖ **Coup D'oeil Still Applies**
 - Digital Devices Do Not Make Decisions
- ❖ **Be Flexible**
 - Hardware and Software Changes Often
- ❖ **Back-Up Methods/Interoperability are Important**



Digitized Axioms

- ❖ **Leveraging Technology is Continuous**
 - TTPs and SOPs must be adaptive

- ❖ **Synthesize Combat Skills and Technology**
 - Need Warriors; Not Geeks

- ❖ **Leaders are a “Jack of All Trades, Master of None”**

- ❖ **Not a New Way of Warfighting - A Better Way**



Challenges As We Continue . . .

- Incorporate DCX lessons learned
 - TOE/MTOE
 - Unit Training
 - Institutional Training
- Continue to Refine Techniques, Tactics and Procedures
- Synthesize combat skills with technology