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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.....

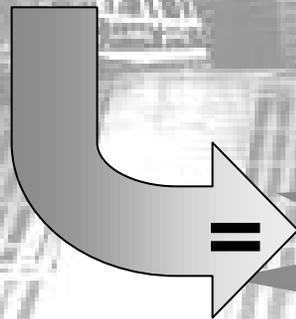
**Fundamentals**

**+**

**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