UNITED STATES ARMY LOGISTICS

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NDIA

Innovation Panel

Supply Chain Transformation 29 Mar 2012



Dr. Vic Ramdass Director U.S. Army Logistics Innovation Agency







ALWAYS READY.

ALWAYS THERE.

Introductions

Randy Strang VP, Customer Solutions, UPS



🖵 Early Wyatt

Deputy Asst Sec Def, Rapid Fielding



Mike Burkett

VP, Gartner Research



Highlight transforming possibilities in Supply Chain Innovation

<u>Agenda</u>

- The Future Environment
- Implications for Military Logistics
- The Supply Chain for the Future Force
- Supply Chain Enablers
- Operational Energy



"We are always looking for ways to keep our supply chain lean, cost effective, and flexible." – Hon. Alan Estevez, Assistant Secretary of Defense (Logistics & Materiel Readiness)



The Future Environment

"Nothing endures but change." - Heraclitus



- Increasing rates of technological and scientific advancement
- Increased competition for finite resources
- Persistent regional conflict
- Demographic strains
- Empowered non-state actors
- Continued proliferation of weapons of mass destruction
- Hybrid threats incorporating regular and irregular warfare, terrorism and criminality

Increasingly complex – absolutely dynamic

Focusing our approach to innovation

Implications for Military Logistics

New strategic challenges

- Diverse, unstable environments
- Prolific, massively disruptive threats (NBC, cyber)
- Uncertain resource availability

Advanced technological capabilities

- Decision support
- Unmanned systems
- Power and energy

Changing human dimensions

- Demographic shifts
- Ingrained technology competencies
- New learning, training methods









"We need innovation in how we operate – our ability to re-imagine the way we fight will determine if we succeed or fail." – CJCS Strategic Direction to the Joint Force

The Supply Chain for the Future Force

"Notice that the stiffest tree is most easily cracked, while the bamboo or willow survives by bending with the wind." – Bruce Lee

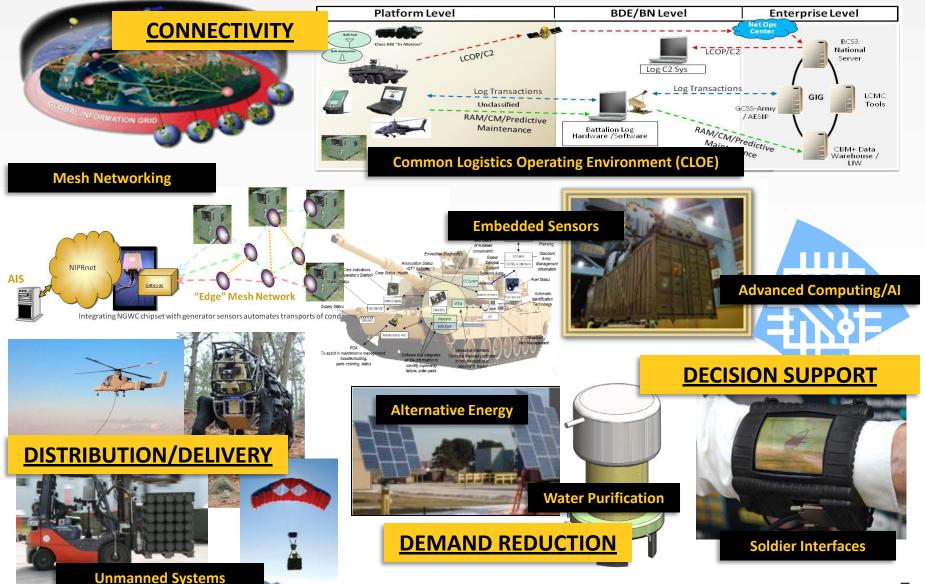
The future supply chain optimizes technology and human resources to remain:

- Versatile
 - **Tailored to meet the operational situation**
- Agile
 - Uses diverse solutions to adapt to disruptive events and threats
- Efficient
 - Minimizes force resource demands

"Our aim should be a versatile, responsive, and decisive Joint Force that is also affordable." – CJCS Strategic Direction to the Joint Force UNCLASSIFIED

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Supply Chain Enablers



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Operational Energy

The energy required for training, moving, and sustaining military forces and weapons platforms for military operations

Energy is a key enabler to major capabilities

Performance Goals

- Increase mobility
- Increase mission focus
- Extend endurance
- Increase availability
- Reduce fully-burdened cost
- Enhance stability operations

Key Attributes

- Versatile
- Sustainable



Tactical Fuels Manager-Defense



Ultra Light-Weight Camouflage Net System



USACE Mini-Grids for USFOR-A



Soldier Worn Integrated Power Equipment System



Rucksack Enhanced Portable Power System



Improved Turbine Engine Program



Grand Challenges Give soldiers and leaders capability to manage

Provide flexibility and resiliency by developing

energy status, resources, performance

alternatives and adaptable capabilities

Significantly reduce energy footprint

Advanced Medium-sized Mobile Power Sources

Goal: Energy-informed operations

Lethal

- Agile
- **Expeditionary**
- Interoperable

Message to Partners in Industry & Academia

Help us:

- IDENTIFY emerging technology
- REDUCE size and weight of "Soldier Systems"
- CREATE transformative tools
- INTEGRATE critical capabilities to reduce complexity



Improve system efficiencies – reduce log requirements

Panel Discussion/Questions