Future Operational Environment

The Operational Environment Enterprise

DCS, G-2 TRADOC

Distribution A: Publicly Releasable

The Future Operational Environment
…the changing character of warfare

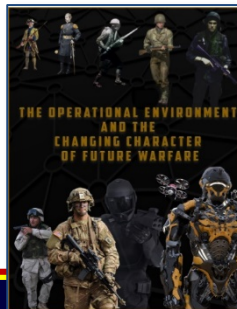### *An Era of Accelerated Human Progress (through 2035)…..*

Lethal, Contested, Complex Terrain…Degraded Operations

Adversaries, including super empowered individuals with access to WME, cyber, space & NBC

Operations among populations in complex terrain…including dense urban areas

Proxies

Terrorist/ Criminal activity

STRATEGY

Strategic Capabilities

Conventional Structure & Capability

Irregular Operations

Cyber

Trans regional, hybrid strategies … regular, irregular, criminal, terrorists …attacking our weakness, mitigating our advantage; Systems Warfare, Preclusion, Sanctuary, Isolation and Reflexive Control.

Contested in all domains, increased lethality, enabled by autonomy, robotics and Artificial Intelligence … the potential for overmatch

Increased speed of human interaction, events and action …rapid proliferation of capabilities, constantly co evolving

THE OPERATIONAL ENVIRONMENT AND THE CHANGING CHARACTER OF FUTURE WARFARE

…An Era of Contested Equality (Beyond 2035)

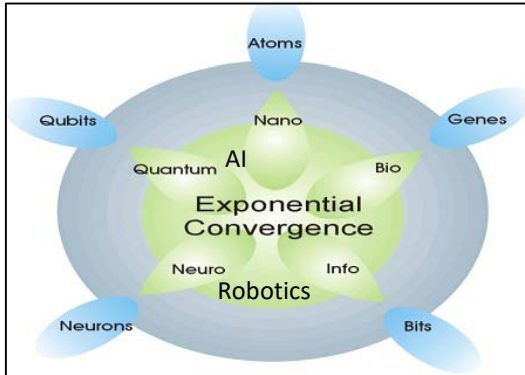**The start point for building Future Readiness!**
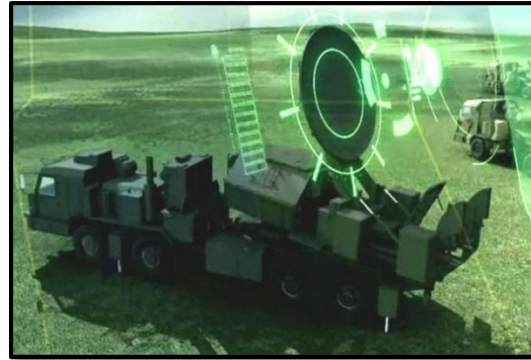
Victory Starts Here!

Fundamental Questions Affecting Army Modernization

Does this capability anticipate the convergence of quantum, nano, bio, info, & neuro?

How will this system operate when degraded or disconnected from the network?

How does this capability help us win in competition short of conflict?

What signature does this system present to an adversary?

How does this system operate in dense urban environments?

How does this system take advantage of open and modular architectures?

Future Readiness dependent on OE-informed Modernization Decisions

Russian New Generation Warfare

Threat Considerations

- **Electronic Warfare**
- **Integrated Air Defense**
- **Counter Space & PNT**
- **Cyber & Social Media**
- **Recon-Info-Strike Complex**
- **Extensive use of UAVs**
- **Massed Artillery & Forces**
- **Protection**
- **Proxies**
- **Deception & Ambiguity**
- **CBRNE/WMD**

OE Characteristics

Populations & complex terrain

Proliferation of WMD

Potential for overmatch

Speed of human interaction

Contested in all domains

Potential for Conventional Overmatch

Electronic Warfare *Cyber & Space*

Fighting Vehicles *Air Defense*

MRLS & Rockets *Artillery*
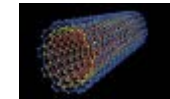
Fundamental Changes

Laser Weapons *Synthetic Bio* *RF Weapons*

Internet of Things *Energetics*

Power *EDKEW(Rail Guns)*