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Army Required Capabilities

Enabling Strategic Landpower

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Operational Environment

Force 2025 & Beyond

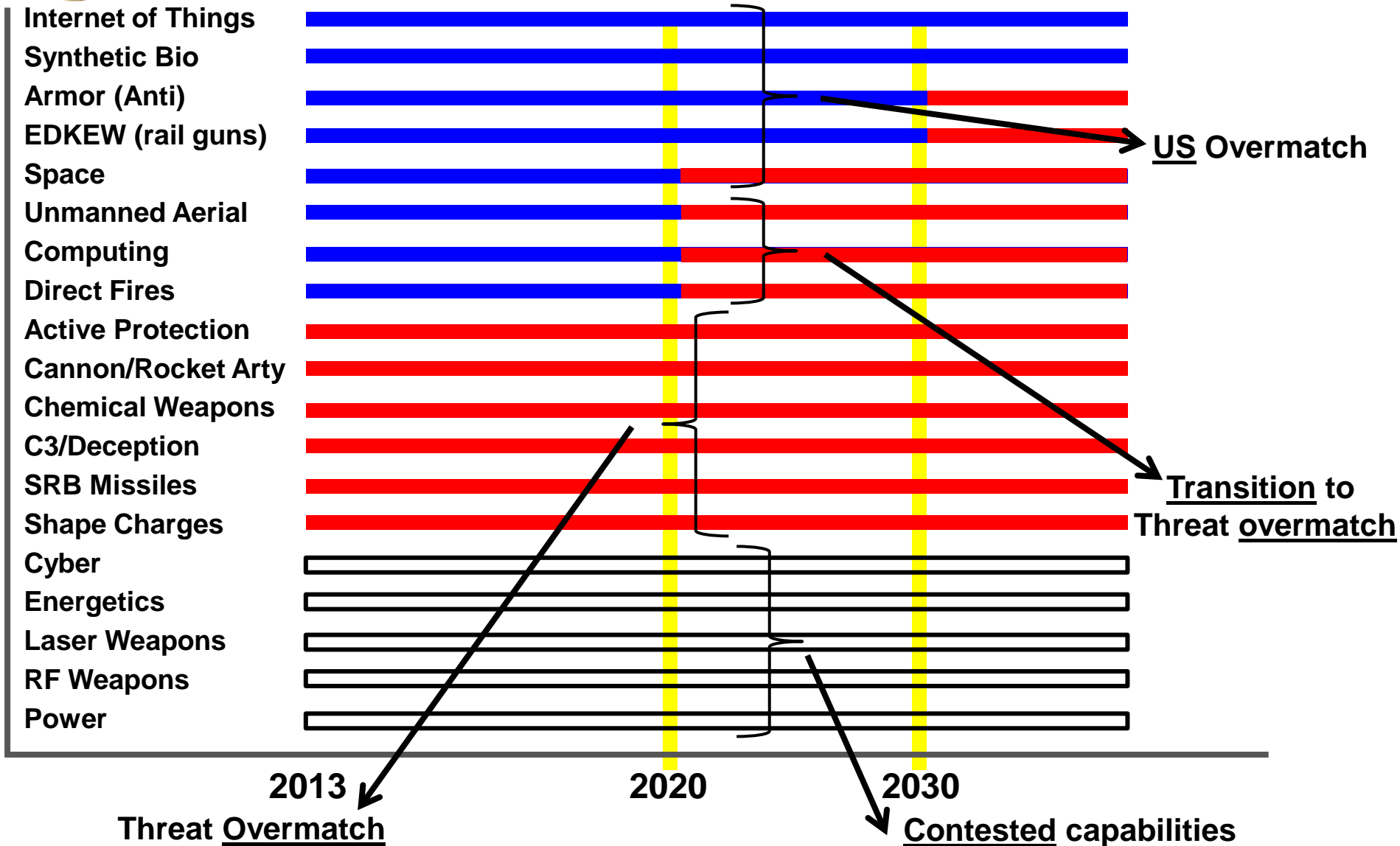


- **Significant reductions in allied and partner military capabilities**
- **Adversaries continue to seek Weapons of Mass Destruction (WMDs)**
- **Wider access to technology (transparent via internet; world arms trade; etc)**
- **Humans:**
 - 1.5M moving to urban areas every week
 - By 2030, world population grows by more than 1B
 - Cities with over 1M grow from 442 today to > 630 in 2025, and > 700 by 2050
 - 60% of population **concentrating in mega-cities (>10 million) by 2030**
 - **Mega-city fragility drives demand for short-notice, large-scale humanitarian assistance**
- **Increasingly capable unmanned systems employed by potential adversaries**
- **Cyberspace operation affects all domains and presents challenges in all conflict phases**
- **Continued development of commercial networked systems**
 - Today, Katy Perry can reach over 50 million followers in one tweet
 - ~~Popular political uprisings at an accelerated pace?~~

The most significant change in the future operational environment will be the exponential increase in the velocity of human interaction



Adversary S&T Investment and Overmatch Risk



Wider access to technology and knowledge increases the risk of overmatch



Traits of Successful Military and Systems Innovation



Traits of Successful Military Innovation

- Lessons Learned applied
- Anticipation of future challenges
- Catalyst to initiate
- Intellectual leads the physical
- Concept to focus
- Opportunity to exploit
- Expertise to develop
- **Experiments to evaluate**
- Network to refine
- **Sponsorship and continuity to implement**
- **Adaption in face of new challenges**

Examples: Mechanization, AirLand Battle



Advocates must rise or a crisis must create imperative for implementation

Traits of Successful Systems Innovation

- **Conceptual continuity through multiple CSAs**
- Catalyst for change; opportunities to exploit
- **Top down integration of Army Combat Developments**
- Overcome cultural barriers in the Army
- Collaborative relationship between TRADOC and the acquisition community
- Army Acquisitions Corps leadership with operational experience to provide user perspective
- **Risk management, not risk aversion**
- **Funding stability**
- **Wide-spread Warfighter endorsement and support within the Army**

Examples: Big 5



Establish continuity and close collaboration between acquisition, requirements and resource communities, and process, beginning with ICD development, continuing the program's lifecycle ... Make an opportunity, not wait for one



Strategic Landpower and Force 2025 and Beyond in Context

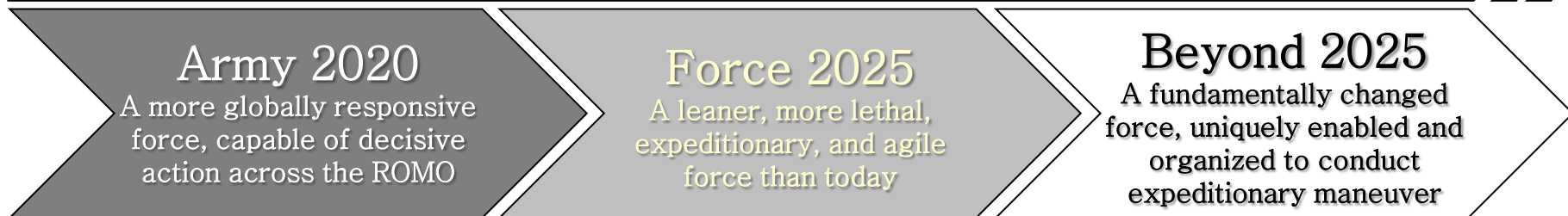


Prevent, Shape, and Win in support of Combatant Commanders to defend the Nation and its interests at home and abroad, both today and against emerging threats

Strategic Landpower



Advancing the Army's Capability



➤ **A near-term waypoint – the Army of today**

➤ **Leaner force – equal to or more capable than today**

➤ **Operationally significant expeditionary force**



Force 2025 S&T Solutions

Force 2025 – Increase expeditionary maneuver while retaining or increasing current mobility, protection, and lethality

- **Lighter, More Capable Protection**
- **Cyberspace operations**
- **Optimized squads, increased presence**
- **Mobile protected firepower**
- **Mission Command On-The-Move**
- **Improved information to decision**
- **Human Dimension, Performance Optimization**
- **Live, Virtual, Constructive Gaming and Immersive Tools**
- **Robotics - Manned/Unmanned Teaming**
- **High Speed, Fuel Efficient, Longer Range Platforms**
- **Long range precision fires**
- **Counter anti-access/area-denial (A2/AD)**
- **Reduction in Power and Energy Demand**
- **Integrated Autonomous CBRNE Detection**



Enduring S&T Challenges:

- Enabling greater force protection for Soldiers, air and ground platforms, and bases
- Easing overburdened Soldiers in Small Units
- Enabling timely mission command and tactical intelligence
- Reducing logistics burden
- Creating operational overmatch
- Achieving operational maneuverability
- Enabling early detection and treatment for TBI and PTSD
- Improving operational energy
- Improving individual and team training
- Reducing lifecycle costs of future Army capabilities

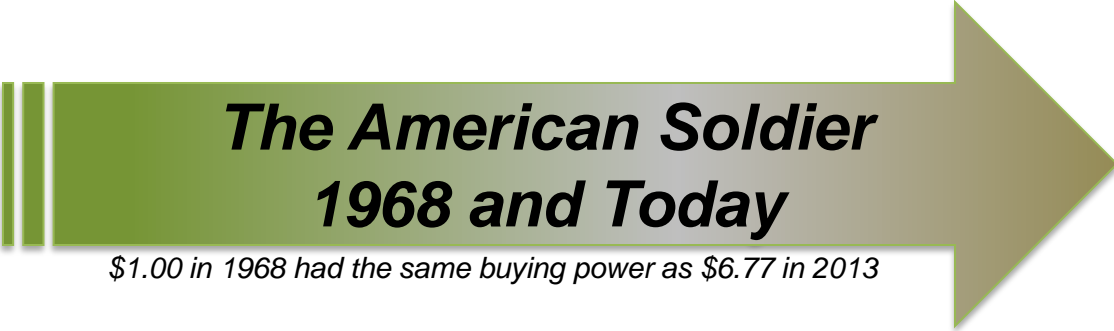
Verify Force 2025 desired capabilities through senior leader panels, unit inputs and experimentation – solutions available with today's technologies



Questions?

**1968
(Enlisted)**

**2013
(Enlisted)**



\$1.00 in 1968 had the same buying power as \$6.77 in 2013

- 22 years old
- 79 % high school graduates
- < 1 % female
- 21 % minority
- 60 % draftees
- 36 % married
- SGT base pay = \$278.70
- SGLI coverage = \$10K
- 35 lbs equipment (\$1856)
- Individual replacements
- 62 % survival rate if wounded

- 28 years old
- 99+ % high school graduates
- 13 % female
- 40 % minority
- 100 % volunteers
- 54 % married
- SGT base pay = \$2304.30
- SGLI coverage = \$400K
- 75+ lbs equipment (\$19,454)
- Unit rotations
- 88 % survival rate if wounded

**End Strength
~1.2M**

**End Strength
~565K**