

# Army Science & Technology

### Science and Technology (S&T) Overview

Jeffrey D. Singleton (A) Executive Director for Technology



DESIGN • DEVELOP • DELIVER • DOMINATE

Office of the Deputy Assistant Secretary of the Army for Research and Technology

18 May 2015





### Army S&T Principles



MISSION: Identify, develop and demonstrate technology options that inform and enable effective and affordable capabilities for the Soldier

VISION: Providing Soldiers with the technology to Win



# Army S&T Enterprise



### Army S&T Enterprise—Research, Development & Engineering Centers & Labs





### S&T Resources Funding Categories, Work Focus, Timeframes





6-12 yrs

12-20+ yrs DESIGN • DEVELOP • DELIVER • DOMINATE

OLDIERS AS THE DECISIVE EDGE

MAINTAINING A LEADING EDGE IN TECHNOLOGY

**0-6 yrs** 

5

#### Army Investments by Portfolio PB16 - \$12.5B (FY16-20)





## **U.S. Army S&T Major Efforts**



#### Soldier/Squad

Soldier Training and Human Performance Soldier Overmatch **Soldier System Engineering Architecture** 

#### **Ground Maneuver**

**Protected Mobility Austere Entry & Maneuver** Increased Energy Density and Energy Efficiency



Air

Advanced Aircraft Design **Degraded Visual Environment Mitigation** Joint Multi-Role Technology Demonstrator



**C**3I

**C3I Vehicle Architectures High Definition (HD) Multifunction Sensors** Radio Frequency (Comms/EW/PNT) Common Operating Environment

### Medical

Lethality

**Disruptive Energetics** 

Post Traumatic Stress Disorder (PTSD) and Traumatic Brain Injury (TBI) Infectious Diseases (Drugs & Vaccines) **Damage Control Resuscitation** 







**Innovation Enablers Environmental Lifecycle Analysis Threatened and Endangered Species High Performance Computing Modernization Program** 



**Counter Unmanned Air Systems/Cruise Missile** Solid State High Energy Laser Technology Demonstration



**Multi-Scale Modeling of Materials** Intelligent / Autonomous Systems Human Sciences / Cybernetics **Quantum Effects / Information Science** 





#### Army Research Laboratory Open Campus Initiative





#### **Responding to the National Security Challenges of the 21st Century**

Open Campus Website: http://www.arl.army.mil/opencampus/

# **Army Science & Technology**



### **Providing Soldiers Technology Enabled Capabilities**

## MAINTAINING A LEADING EDGE IN TECHNOLOGY