



U.S. Army Research, Development and Engineering Command



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

National Defense
Industrial Association
11TH ANNUAL SCIENCE &
ENGINEERING TECHNOLOGY
CONFERENCE / DoD TECH EXPOSITION

MG Nick Justice
Commander, RDECOM
**Keeping the Army on the Cutting
Edge of Technology**



The Challenge



Persistent
Conflict
Adaptable
Enemy



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The Challenge



**Industrial Age
Meets
Information Age**



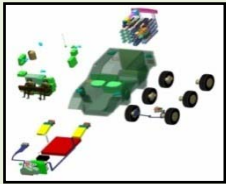
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Engineering for Today's Fight Science for the Future



Advanced Concepting



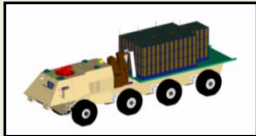
Future Force



JLTV

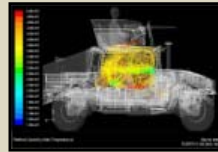


MRAP

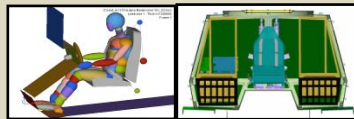


FTTS

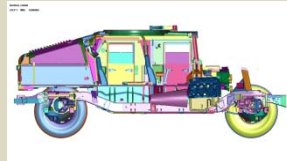
Analytics



Thermal / CFD



Crew Safety



Structures/Durability



Blast



Dynamics

Hardware & Man-In-The-Loop Simulation



Characterization



Durability



Turret Testing



Human Dimension



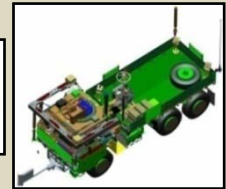
Virtual Environments



FTTS

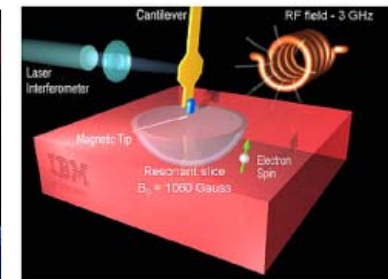
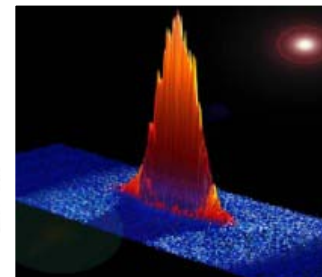
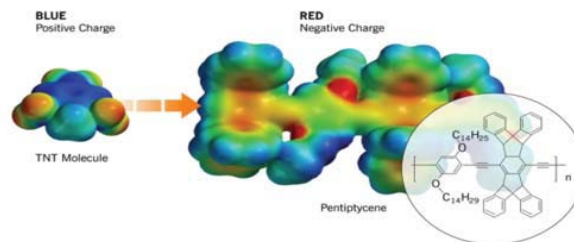


FED



Autonomous Platform Demonstrator (APD)

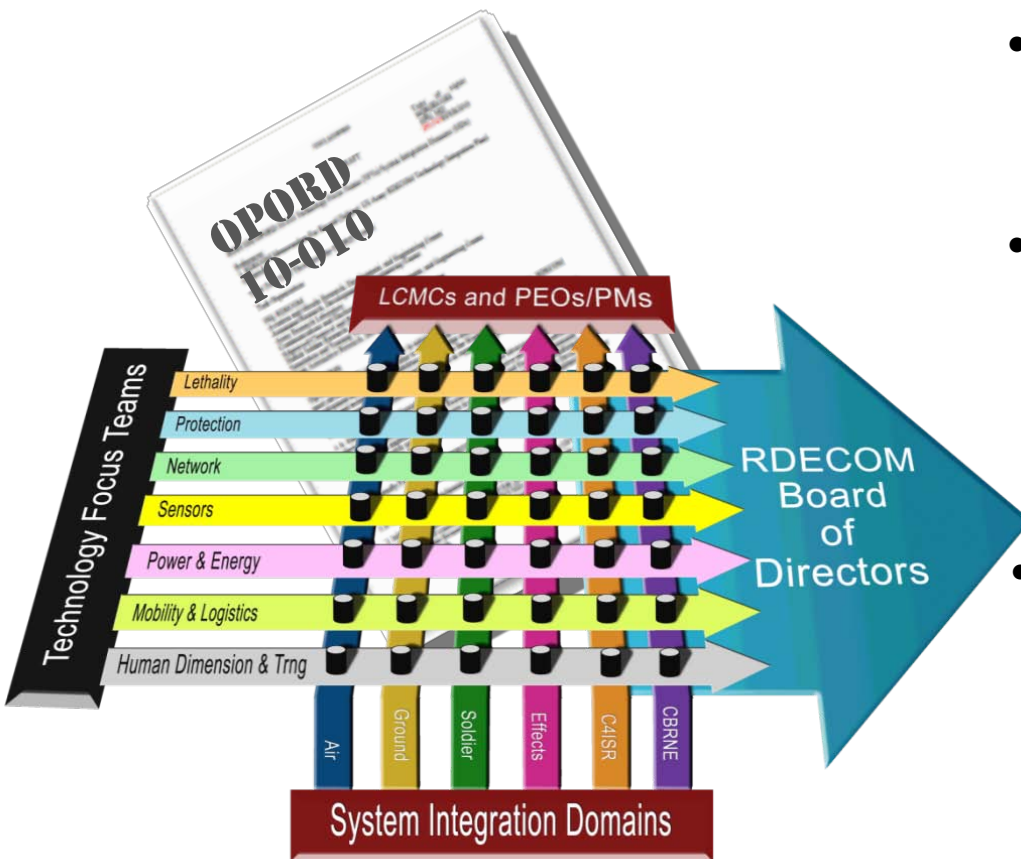
A scientific base on which to engineer tomorrow's technologies



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Organizing to Support the Warfighter



- Enterprise process applied to all RDECOM efforts for all timeframes (rapid, near, mid, and far term).
- System of Systems Engineering approach aligned to ARFORGEN
 - Task organized execution
- **Common Operating Picture (COP) for RDECOM mission space:**
 - **Primary Interface to:** TRADOC, LCMCs, PEOs, COCOMs, Army Leadership
 - **Capability Needs:** System Integration Domains (SIDs)
 - **Technology Needs:** Technology Focus Teams (TFTs)

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- **RDECOM working with ASAALT, DA-G3, and TRADOC to enhance Collaboration in R&D in support of Army's Priorities: OIF/OEF, GCV, BCT Modernization:**
- Rapid Acquisition / Rapid Equipping / R&D Collaboration
 - Community of Interest are working together along several lines of effort to achieve the goal of R&D Collaboration
 - LOEs include Policy, COP tool, Governance
- R&D Collaboration ME Operations
 - ME Collaboration Council
 - Warfighter Needs Working Group Council of Colonels
 - Common Operating Picture (COP) Working Group



Keeping the Army on the Cutting Edge of Technology