US Central Command
Technology / Concept Development
Charter

Conduct *discovery, research, analysis,* and *sponsor development* of new and emerging *technologies* and *concepts* which have the *potential to provide solutions* to Headquarters and Component validated Joint needs.

*Review* USCENTCOM and Component *plans, operations,* programs, policies and activities for areas where *technology/new technique* will improve efficiency and effectiveness.

*Integrate* across USCENTCOM headquarters and Component staffs for transformational, integrating, and experimentation activities.
U.S. Central Command Tech Focus

• We focus on the JOINT solution that has the potential to satisfy a JOINT validated need
• Separate from the many technology needs of our customer(s) those technology challenges which:
  – Do not have a readily available solution
  – For high-impact needs there is insufficient activity pursuing a solution
• Seek out game-changing technologies which our customer(s) don’t know they need
Decelerate/Reduce Adversary Effectiveness

SLOW THE GAME

CHANGE THE GAME

STATUS QUO

SPEED THE GAME

Accelerate/Improve U.S./Coalition Effectiveness
Thematic areas of concern
(not in priority order)

• **A2AD solutions**
• Detect / Defeat:
  – IED initiators / initiator systems
  – Buried / concealed IEDs
  – Production and assembly of IEDs
• HME production standoff detection
• Culvert access denial / alerting
• Persistence in surveillance
• Biometrics (Identity dominance for FP/access)
• Non-lethal vehicle / vessel stop
• Reduce stress on the force:
  – Force Protection requirements
  – Increased automation
• Anti-swarm lethal / non-lethal
• **Enable Partner Support**
• Predictive analysis techniques
• **Tunnel detection / defeat**
• Holding all targets at risk
• **Messaging / counter-Messaging**

• **Mine Warfare (offensive/defensive)**
• **IAMD overmatch solutions**
• C4ISR systems:
  – **Processing, exploitation & dissemination**
  – Multi-level security
  – Cross domain solutions
  – **Information access to tactical edge via MIL Comms, Cellular & WiFi**
• Tagging, Tracking, and Locating (TTL)
• **Denying non-state actors state-like functions**
• Energy & Power efficiencies
• Scalable non-lethal / lethal effects
  – Directed Energy
  – Kinetics
• True SA for Blue ... Fused Red
• Sustaining the force – reduced size, weight, amount, and retrograde
• Any sensor any shooter
• **Cyber Warfare**
• **Detect, track, defeat UAS (Grp 1&2)**
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