



Quick Reaction Capability for Urgent Needs

Socorro Systems Summit-Collaborative Knowledge Exchange-2017

New Mexico Institute of Mining and Technology, Socorro, NM

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Introductions

- Jack Ring:
 - Not available, so you get:

- Ed Carroll:
 - Principal Research Analyst,
Sandia National Laboratories:
 - Retired Naval Aviator
 - 25 years in software / systems engineering
 - 15 years in systems analytics and data management

Quick Reaction – my experience

- Started with a special request and resulted in:
 - Simplified requirements
 - Common to previous efforts
 - Difficult requirements are deleted
 - Normally thorough analysis cut
 - Minimal modification from established system architecture
 - Proven components, ideas. Nothing really new added
 - Normally thorough technology exploration cut
 - Customer assumed tremendous risk
 - No time to qualify anything new
 - Normally essential processes cut
 - Acceptance of considerable risk by development team
 - Intentional or unwitting. Processes cut, standards ignored

DOD Rapid Acquisition Capability

- ORS (USSTRATCOM, KAFB) – Urgent Space Needs
 - Tailored, disciplined, agile
 - Clear authority – delegated, and direct
 - Appropriate oversight that is risk tolerant
 - Competitive to market-based alternatives



Figure 1: ORS Briefing to Industry, PACA Conference, KAFB, 8/15/2017

DOD Rapid Acquisition Capability⁽²⁾

■ Army Rapid Capabilities Office

- Short/narrow chain of command
- Early warfighter involvement
- Collaborative team

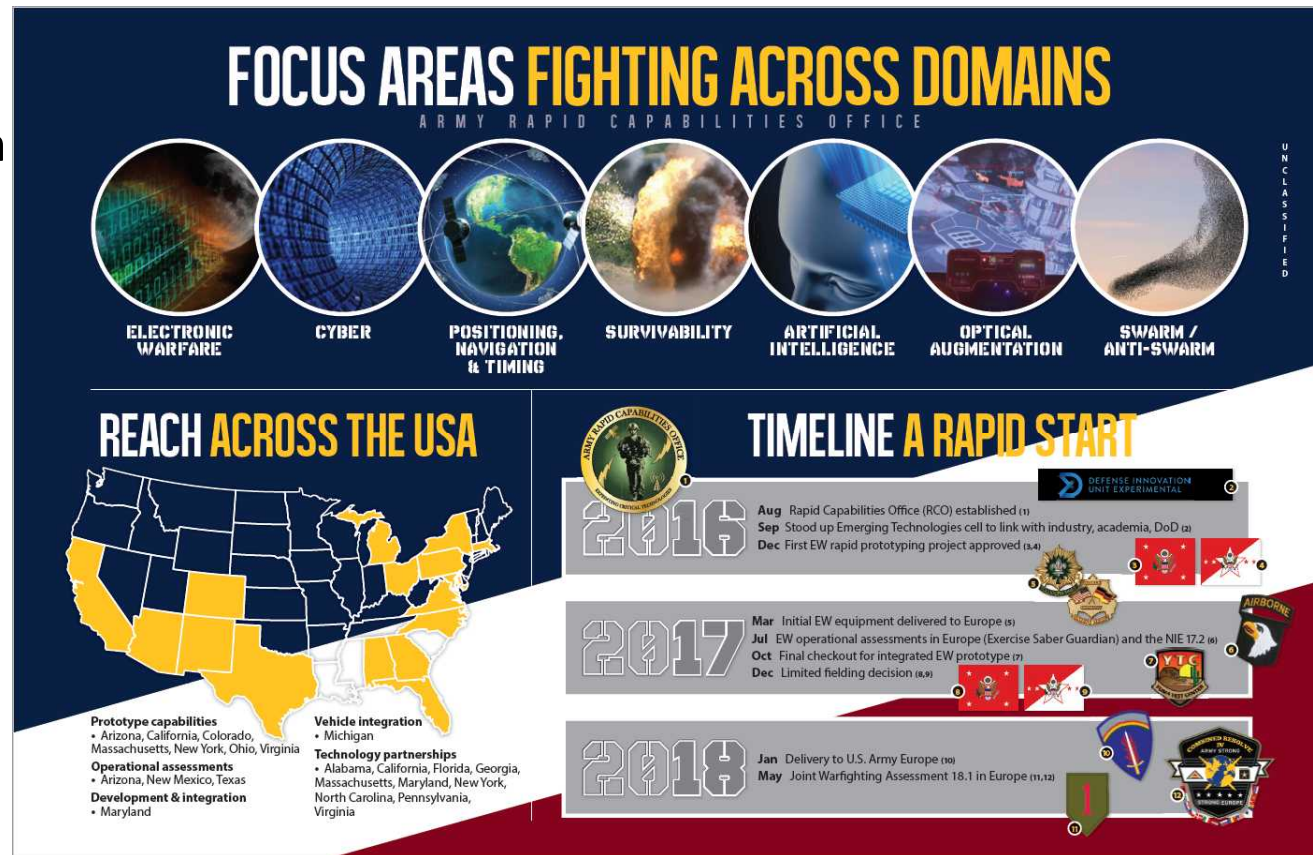


Figure 2: US Army image, www.rapidcapabilitiesoffice.army.mil

DOD Rapid Acquisition Capability⁽³⁾

- Air Force Rapid Capabilities Office
 - Short/narrow chain of command
 - Early warfighter involvement
 - Small integrated teams



Figure 3: US Air Force image, www.af.mil

DOD Rapid Acquisition Capability⁽³⁾

Maritime Accelerated Capabilities Office

- Accelerated prototyping, demonstration, and experimentation
- Limited equipping

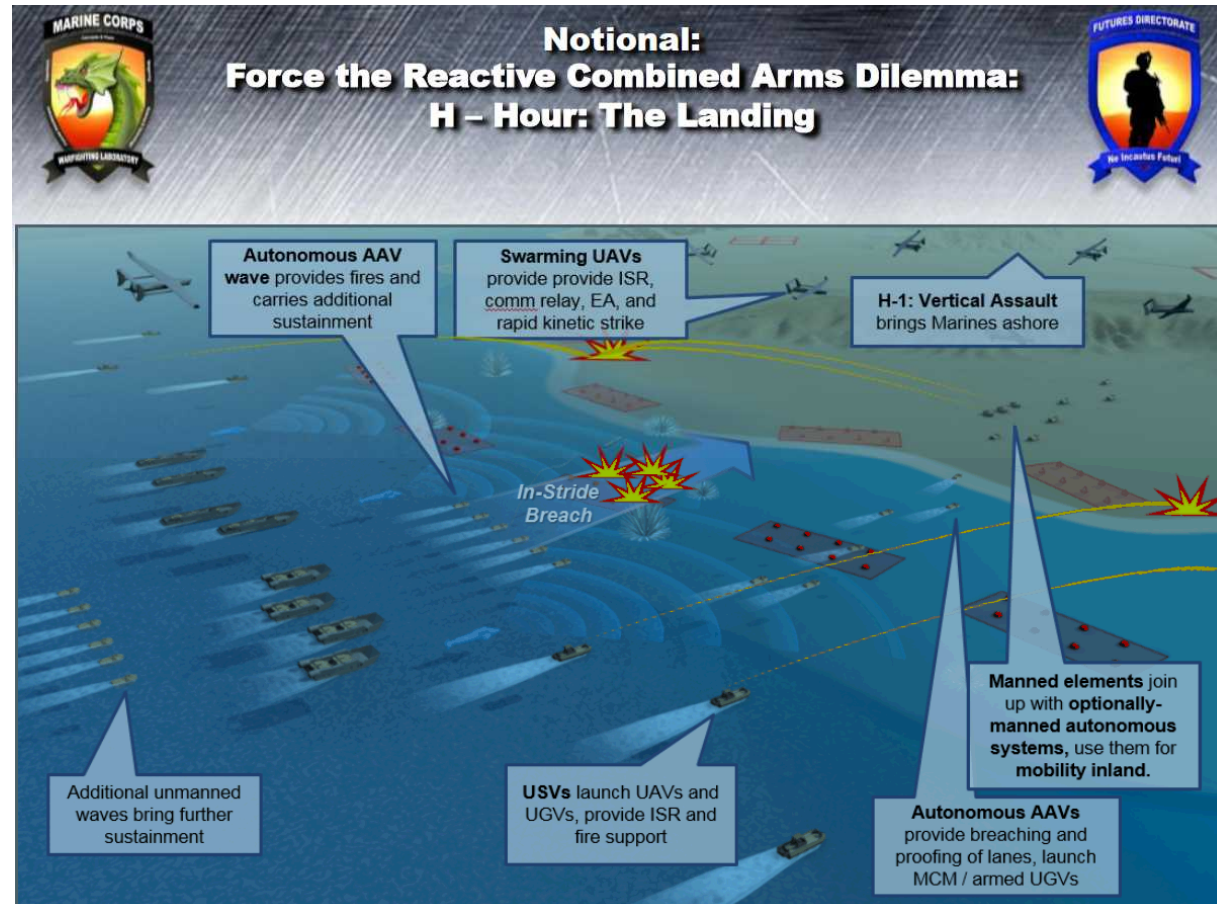


Figure 4: USMC Rapid Capabilities Office Briefing to NC Defense Technology Transition Symposium, 11/15/2016