

Rapid Fielding A Path for Emerging Concept and Capability Prototyping

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Purpose



Introduce a shift in ASD R&E/Rapid Fielding (RF) Operating Model

Current Model (2009-2013)

- Nearly 85% of the funds received were allocated to COCOM-stated, near-term gaps
 - -- Focus on 1-2 year projects development/modification and transition
 - -- Strong collaboration with the Services from the outset
- Resulted in:
 - -- 167 successful capability demonstrations with an 85% transition to the field, PoR or GSA schedule
 - --- Lower risk, more mature and focused concepts
 - --- More operationally-suitable prototypes

Future Model (2014-Beyond)

- Maintain roughly 55% of the funds received for the current model
- Remaining 45% go to prototypes aligned against DoD/Chairman's Gap-level interest areas
 - -- More strategic in nature; increased emphasis on anticipating capability needs/opportunities
 - --- Demonstrate a major capability change, or fill a design/industrial gap
 - --- Explore technical capability options and methods of development



What's Really Changing?



An increased commitment to use concept & development prototyping to:

 Expand the realm of the possible without driving a follow-on procurement activity

Soldier-Warfighter Operationally Responsive Deployer for Space (SWORDS) (JCTD) – low cost (<\$2M) rapidly deployable Micro Satellite Launch Vehicle

 Provide a hedge against technical uncertainty or unanticipated threats *

NAUTICUS (ECTD) — a compact underwater short-range active interrogation system that can non-invasively determine the presence of high explosives (HE) and special nuclear materials (SNM) inside a small boat or submerged object of interest

 Cost-effectively enhance interoperability and reduce lifecycle costs*

70mm Rocket Penetrator Guidance System (FCT) – a laser-designated, lock-on-before-launch rocket using JDAM semi-active laser seeker and M282 enhanced electronic delay warhead. Provides low cost, guided rocket with 1 meter CEP accuracy, selectable delays, and enhanced range from 1.5Km to 8Km.

Respond to other areas as defined by Mission Area Analysis





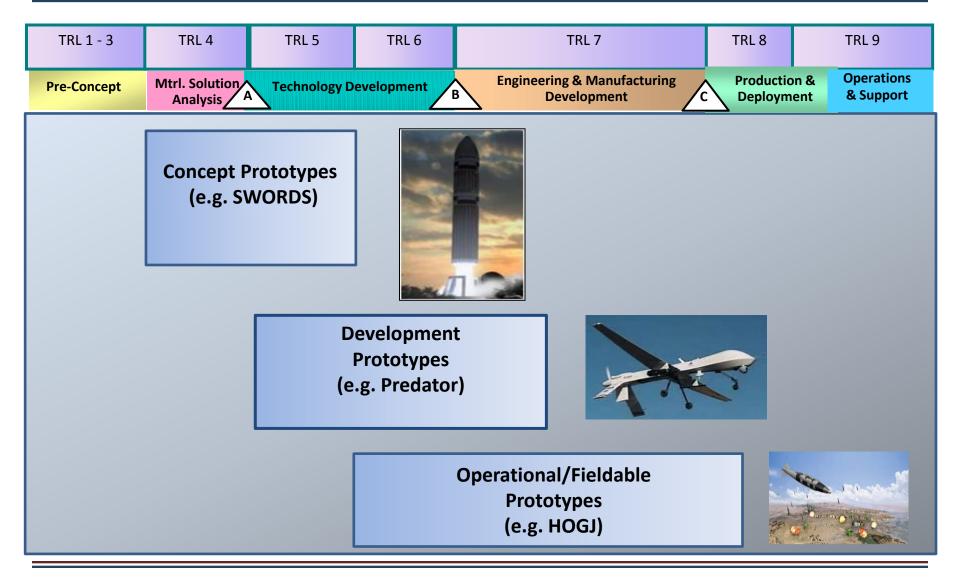






Prototype Spectrum







RF's Future Lines of Operation



Identify, develop and demonstrate multi-domain technologies and concepts to satisfy DoD, multi-Service and COCOM priorities

Concept Prototyping

- To introduce a new technical/operational option without necessarily driving a follow-on procurement
 - Will be competitively selected among the services
- Measure: Demonstrates feasibility with a resulting analysis regarding operational value

Development Prototyping

- To anticipate future threats and to mitigate risk to major acquisition programs
- Measure: Increased end-user capability resilience in a contested environment

Operational/Fieldable Prototyping

- For Rapid Response Priorities (Warfighter SIG, JUON & JEONs); mostly COCOM driven
- For lower cost replacements; and to cost effectively extend system service life (Better Buying Power 2.0)
- Measure: Satisfies threshold performance needs and affordability target inside
 18 months



Working with Rapid Fielding



Concept Prototype

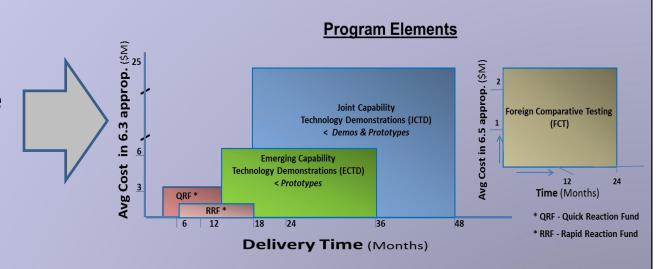
ECTD

Development Prototype

JCTD

Operational Prototype

- QRSP
- FCT



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Technology Office
(QRSP)
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(FCT)
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http://www.acq.osd.mil/rfd/