



Rapid Innovation Program (RIP) ... or 'Fund'



- **Established by the Fiscal Year 2011
Defense Authorization Act (Section 1073)**
 - **A competitive, merit-based program**
 - **Accelerate fielding of innovative technologies
into military systems**
 - Pursuant to SBIR phase II projects
 - From lab-developed technologies

***Transition Small Business Technologies
into Defense Acquisition Programs***



RIF Source Selection Two-Step Competitive Process



- **Step 1:**

- Military Services and/or OSD Office of Small Business Programs (OSBP) issue solicitations (BAAs)
 - ✓ Open for 60 days
- Industry Response: 3 - 5 page White Paper + Quad
- Evaluations are “Go” or “No Go”

- **Step 2:**

- Highest rated “Go” offerors invited to submit full proposals
- Successful proposals lead to award



RIF: Key Requirements



- ***Proposals or Projects:***

- **Satisfy an operational or national security need**
 - Accelerate or enhance military capability
- **Reduce:**
 - Technical risk
 - Cost -- Development, acquisition, sustainment, or lifecycle
- **Improve timeliness & quality of test & evaluation outcome**
- **Provide approach for use by an acquisition program**
- **Are completed within 24 months of award**
- **Cost is not more than \$3 million**

Selection Preference to Small Business Proposals



RIF: Attributes of a Good Proposal



- **First and Foremost: Responds to a BAA requirement**
- **Relationship with key customers, or otherwise have an ability to reach-out and establish links -**
 - **Technology push from the DoD laboratory community**
 - **Technology pull from DoD user / acquisition buyer**
 - **Push & pull from a DoD prime or subsystem contractor**
- **Technology Readiness Level (TRL)**
 - **Desired maturity: TRL 6 – 9**
 - **See <http://www.acq.osd.mil/ddre/publications/docs/TRA2011.pdf>**
 - **Lower TRLs may be accepted if:**
 - **The innovation is a breakthrough capability**
 - **Is at least cost neutral to the acquisition program's out year procurement or support costs**



RIF: FY 2011



- **\$439M appropriated**
- **Four (4) BAAs issued**
- **Over 3,500 white papers submitted & evaluated**
- **Over 200 final proposals invited**
- **177 awards**
 - **95% are small business**
 - **80% are current or prior SBIR participants**
 - **Average project value: \$2.2M**



FY 2011 – Award Examples

Capability / Operational Needs



- ***Force Protection:***

- Micro-radar for unattended detection & tracking of dismounts (Army)
- Real-time threat detection and forensics system (Navy)
- Port security barrier intrusion detection system (Navy)
- Ruggedized, stand-off explosives detection system (DTRA)
- Secure smart-phone for special operations (SOCOM)
- 3-D imaging radar to identify hazards in low visibility situations (SOCOM)

- ***Intelligence, Surveillance & Reconnaissance (ISR)***

- Small, autonomous aerial platform for counter-IED (AF)
- Modular radar system for UAS to detect & track targets (Navy)



FY 2011 – Award Examples

Controlling Cost / Affordability



- ***Power & Energy:***

- Lightweight Li-ion battery – 30% reduced weight (Army)
- Battery charging ‘on the move’ for remote locations (AF)
- Power management system for equipment in forward operations (Navy / USMC)
- Thermal battery for interceptor missile system (MDA)

- ***Life Cycle Cost Reduction:***

- Electrical diagnostics systems that enhances fault isolation for aircraft power generators (Navy)
- Handheld instrument that measures aircraft low observable coating thickness (AF)



FY 2011 – Award Examples

Controlling Cost / Affordability



- ***Advanced Manufacturing***

- Lightweight titanium V-hull protected crew capsule for increased blast and ballistic threats (Army)
- Improved surface treatment of hardened steel engine components to reduce friction and wear (Navy)
- Micro-plasma oxidation coating to reduce wear and cracking of missile launcher rails – for F-15, F-16, and F/A-18 (Air Force)
- Scale-up of lithium chemical battery from prototype to production (Missile Defense Agency)



RIF: FY 2012



- **\$200M appropriated**
- **Four (4) BAAs issued**
- **Over 2,200 white papers submitted and evaluated**
- **About 125 requests for final proposals**
- **Negotiation & awards**
 - **June to September 2013**



RIF: FY 2013 (Status)



- **\$225M is available**
- **Four (4) BAAs issued**
 - OSD / Defense Agency: Opened Jul 24, Closes Sep 23
 - Navy: Opened Jul 29, Closes Sep 30
 - Air Force: Opened August 8, Closes Oct 8
 - Army: Opened Aug 21, Closes Oct 21
- **Postings at FEDBIZOPs, Military Service websites & the OSD Defense Innovation Marketplace**

<http://defenseinnovationmarketplace.mil/RIF.html>

- ✓ **Links to BAAs**
- ✓ **Milestones for 2013 – 2014 Source Selection Process**
- ✓ **Key Points of Contact**
- ✓ **Past Contract Award Information**



RIF Focal Points



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Summary: Small Business & DoD



Doing Business with the Department of Defense

<http://www.acq.osd.mil/osbp/sb/index.shtml>

- “How-To” work with Defense
- Guides on Marketing to Defense
- Programs for Small Business
 - SBIR / STTR
 - Mentor Protégé
- Contracting with Defense
- Small Business Training
- Conferences & Workshops
- Frequently Asked Questions

Talk to a Small Business Program Expert

<http://www.acq.osd.mil/osbp/sbir/contacts/sbir-contacts.shtml>

- 14 Points of Contact Across the Department of Defense