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Rapid Integrated Scalable Enterprise (RISE)

RISE Program Team

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DOD OFFICE OF SMALL BUSINESS PROGRAMS

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What This Presentation Will Cover?

- 01 Reporting Structure/What is RISE?
- 02 RISE History and Objectives
- 03 The Proven Processes to Success
- 04 Program Results
- 05 Selected RISE Technologies
- 06 The Way Ahead
- 07 Connect with Us
- 08 Questions



REPORTING STRUCTURE



Under Secretary of Defense for Acquisition & Sustainment

To enable the delivery and sustainment of secure and resilient capabilities to the warfighter and international partners quickly and cost effectively.



Assistant Secretary of Defense for Industrial Base Policy

To work with domestic and international partners to forge and sustain a robust, secure, and resilient industrial base enabling the warfighter, now and in the future.



Department of Defense Office of Small Business Programs

To maximize opportunities for small businesses to contribute to national security by providing combat power for our troops and economic power for our nation.

APEX
Accelerators

Indian
Incentive
Program

Mentor-
Protégé
Program

Project
Spectrum

Rapid
Integrated
Scalable
Enterprise

Small
Business Risk
& Analytics



What is RISE?

RISE provides a collaborative vehicle for small businesses to provide the Department with innovative technologies that can be rapidly inserted into acquisition programs that meet specific defense needs.

The program is administered by the Undersecretary of Acquisition and Sustainment under the Director of the DoD Office of Small Business Programs (DoD OSBP).



What RISE Does



Takes innovative R&D products, matures them into production-ready technology, then inserts them into DoD programs



Helps to sustain the small business industrial base and increases the small business manufacturing capability



Prevents valuable technology from being lost



Aligns with national security priorities



Creates commercial sales

Rapid Integrated Scalable Enterprise (RISE)

PURPOSE

To accelerate fielding of innovative technologies from Phase II Small Business Innovation Research/ Technology Transfer (SBIR/ STTR), defense laboratories, academia efforts, and other sources into military systems



ADDRESS CRITICAL
NATIONAL SECURITY NEEDS



SUPPORT CRITICAL
TECHNOLOGY PRIORITIES



ACCELERATE MILITARY
CAPABILITY



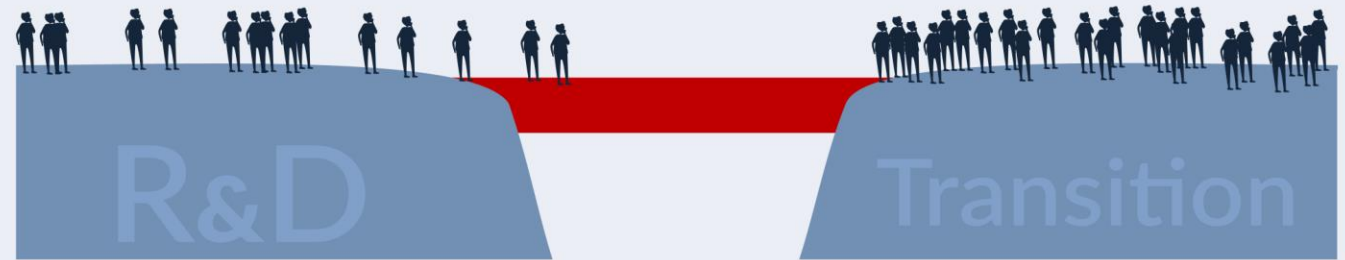
REDUCE COSTS IN
ACQUISITION



REDUCE
TECHNICAL RISK

KEY PROGRAM IMPACT

WITH RISE



WITHOUT RISE



DAVID BUSIGO JR.

SENIOR ADVISOR
ASSOCIATE DIRECTOR





RISE History and Objectives



History of RISE

2011

Established as the **Rapid Innovation Program (RIP)** in Section 1073 of the Fiscal Year 2011 National Defense Authorization Act (NDAA)

2017

Reauthorized in the FY 2017 NDAA as a **permanent program**

2017

Re-designated as the **Rapid Innovation Fund (RIF)** within the Department of Defense (DoD)

2011-2019

Received on average **\$250M** in **appropriations** per year

JAN 2023

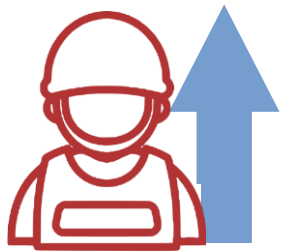
Moved from OUSD(R&E) to OUSD(A&S), specifically DoD OSBP, and renamed **Rapid Integrated Scalable Enterprise (RISE)**



RISE Objectives

Designed as a competitive, merit-based program to **rapidly** transition innovative technologies into military systems.

Projects are drawn from previous initiatives, such as SBIR/STTR, defense laboratory and academia efforts, and especially other non-traditional sources.



Accelerate or
enhance a
military capability



Reduce lifecycle
costs of defense
acquisition programs



Reduce
program
technical risk



Improve
testing and
evaluation



Proven Processes to Success

TRL Requirements/Eligibility | Implementation Steps |
Timelines | Roles | White Papers



Technology Readiness Requirements

- ✓ Must be eligible to receive Advanced Component Development and Prototypes (Budget Activity 4) Research Development Test and Evaluation funds
 - ✓ Limited from \$3M to \$6M per project
 - ✓ Should complete in 36 months or less
 - ✓ **Should enter at technology readiness level (TRL) 4 and exit at TRL 8-9**
- TRL4 Component and/or breadboard validation in a laboratory environment
 - TRL5 Component and/or breadboard validation in a relevant environment
 - TRL6 System/subsystem model or prototype demonstration in a relevant environment
 - TRL7 System prototype demonstration in an operational environment
 - TRL8 Actual system completed and qualified through test and demonstration
 - TRL9 Actual system proven through successful mission operations



RISE Eligibility



COMMITMENT TO SMALL BUSINESS

- + Selection preference shall be given to small business
- + Awards to other than small business are allowed ONLY after the approval authority deems the offer is superior to an offer received from a small business
- + Small Business Standard defined by North American Industry Classification System
- + Emphasis on non-traditional DoD vendors



RISE Implementation

COMPETITIVE, MERIT-BASED TWO-STEP PROCESS

STEP 1:

- Issue Broad Agency Announcement (BAA) with DoD component requirements
- Industry Response: 3-page White Paper + Quad Chart
- Evaluations are “Go” or “No Go”

STEP 2:

- Highest rated “Go” offerors invited to submit full proposals
- Further competition – invite for proposal DOES NOT guarantee an award
- Highest-rated proposals lead to award

PUBLIC NOTICE:

Federal Business Opportunities: <https://sam.gov/content/opportunities>

DoD OSBP RISE Website: <https://business.defense.gov/Programs/RIF-RISE/>



Typical RISE Schedule

October - November	<ul style="list-style-type: none"> Requirements Consolidation
December - January	<ul style="list-style-type: none"> BAA advertised on SAM.gov and RISE website
February	<ul style="list-style-type: none"> BAA closes White Papers (WPs) due from offerors
March - April	<ul style="list-style-type: none"> WPs reviewed/ranked Invitations for full proposals
Early June	<ul style="list-style-type: none"> Full proposals due from offerors Components start evaluations
July	<ul style="list-style-type: none"> Components complete evaluations Proposals recommended for award Offerors notified Negotiations commence
September	<ul style="list-style-type: none"> Contract awards complete



Source Selection Process – Key Phases



PLANNING

OCTOBER - JANUARY

1. Requirements Consolidation
2. BAA Released



WHITE PAPER

FEBRUARY - APRIL

3. Industry Submit WPs
4. WPs Evaluated
5. WPs Source Selection Board
6. Industry Invited to Submit Proposals



PROPOSAL

JUNE - JULY

6. Proposals Evaluated
7. Spend plans & Financial Docs submitted to OSD
8. Proposals Recommended for Award
9. Industry Offerors Notified



AWARD

JULY - SEPTEMBER

10. Negotiations
11. Contract Awards

Notes:

- Technical reviews and selections will be made by the DoD Components
- 30-60-90 day execution plans will be implemented
- Funds will be executed in the year appropriated



RISE Management Roles and Responsibilities



OSD LEVEL (A&S)

Issue / Publish:

- Annual Implementation Guidelines
- Acquisition Plan
- Source Selection Milestones
- Detailed Review Process w/ Defense Agencies / CCMDs
- BAA
- Communication Guidelines
- White Paper (WP) Notifications to Offerors

Track Project Results

- Annual IPRs

Issue Funds & Monitor Financial Execution

Execute Funds in Year Appropriated



COMPONENT LEVEL

Execute Allocated Funds

- Supplement OSD Guidelines (as needed)

Provide BAA Requirements

- Address Offeror Technical Questions

Establish Source Selection Teams

- Evaluate WPs & Proposals
- Make Contract Awards
- Monitor & Report Technical Progress

Request Funds & Report Status

- Financial Execution
- Report Results of Project IPRs / End of Project Results



White Paper Submission to RISE Portal

WHITE PAPER STRUCTURE

**Page limit is 5. Extra pages will not be read.*

SECTION 1

COVER SHEET
(1 page)



SECTION 2

**TECHNICAL
DESCRIPTION**
(up to 3 pages)

- Contribution to the requirement
- Technical Approach
- Schedule
- Costs

SECTION 3

QUAD CHART
(1 page)



Elements of a Good White Paper

YOUR TECHNOLOGY SOLUTION



REQUIREMENT

How it addresses the RISE requirement



CLARITY

Clear, concise synopsis of approach



DIFFERENTIATOR

What's innovative or sets your technology apart from the competition



DETAILS

Enough technical specification to demonstrate technology expertise



KEY DATA

- Pictures & diagrams
- Government contacts that currently relate to this effort
- Summary of teaming arrangements
- Any prior testing & summary results



What NOT to Include in Your White Paper



When BAA opens, read it, ask questions, and prepare a DRAFT WP soonest.

- If missing data, update later.
DO NOT WAIT UNTIL THE LAST MINUTE!
- Follow directions / template as provided in the submission portal(s).



UNRELATED INFO

Technology looking for a solution (e.g., unrelated to the requirement)



GENERIC

Generic company overview (org chart)



DEEP BACKGROUND

History of the problem



TESTIMONIALS

Testimonials from other industry or lab researchers



OVERLY DETAILED

Detailed diatribe of charts and formulas stating why your technology is the best



The Heilmeier Catechism

- What are you trying to do? Articulate your objectives using absolutely no jargon.
- How is it done today, and what are the limits of current practice?
- What is new in your approach and why do you think it will be successful?
- Who cares? If you are successful, what difference will it make?
- What are the risks?
- How much will it cost?
- How long will it take?
- What are the mid-term and final “exams” to check for success?



George H. Heilmeier, DARPA
Director (1975-1977)



Results and Technologies

Program Results | Assessment Report | Selected RISE Technologies



Results (FY11-FY19 projects, as of Q4 FY22)

Over \$2.2B invested in requirements from more than 30 DoD Organizations (including the Military Services)

Nearly 1,000 contract awards, averaging \$2.1M each

20,500+ white papers, ~1,500 full proposals

Over 100 projects on average annually

Heavy investment in small business innovation:

- 843 awards, \$1.76B (85%) total funding to small business
- 549 awards, \$1.18B (57%) total funding to SBIR/STTR Phase III



Assessment Report (FY11-16 projects, as of Q2 FY20)

60%

of total projects
transitioned
(or transition expected)

54%

of SBIR/STTR Phase 3
transitioned
(or transition expected)

60%

of awards derived
from SBIR/STTR

Military sales
>\$2.4B

Commercial sales
>\$400M

DoD cost savings
\$4.5B

Conclusion

“ The results show that the RIF has been very effective at meeting the objectives outlined in the FY 2020 NDAA by:



TIMELY AND THOROUGH

Improving timeliness and thoroughness of test and evaluation outcomes,



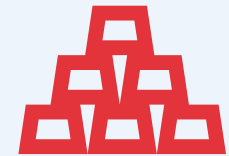
ADDRESSES RISK

Addressing technical risk,



INNOVATIVE

Stimulating innovative technologies,



VALUABLE

And reducing acquisition or lifecycle costs.”



Example RISE Technologies

- Active Blast Mitigation for Tactical Vehicles
- Advanced Ballistic Protection System for the CH-47
- Aerogel Insulated Thermal Battery for ICBM Systems
- Autonomous Landmine Detection System
- Burn Resistant Material for Liquid Rocket Engines
- Cyber Intelligent Battle Manager
- Enhanced Monitoring System for UHF SATCOM
- Expeditionary Portable Power Unit
- GPS Anti-Jam (AJ) Technology
- High Energy Laser Hybrid Power System



Example RISE Technologies (cont'd)

- Innovative Manufacturing for Advanced Turbine Airfoils
- Laser Airborne Communications
- Long Range Unmanned Underwater Surface Vehicle
- MicroScan Airborne Electronic Warfare (EW) System
- Point-of-Care Blood Typing and Pathogen Detection
- Portable Fluid Analyzer
- Portable Water Purification
- Secure Space Networking
- Sensor Network for Maritime Early Warning
- Universal Biometric Translator (UBT)



The Way Ahead



The Way Ahead

ASD (IBP) elevates RISE as part of major DIB investment strategies.

**POST-MOVE
TO OUSD (A&S):**



**1. Funding
needs to be
finalized**

**2. Portal
redesign**

**3. First
BAA
released
under DoD
OSBP**



Questions?

We're here to help!



Connect With Us

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