

FY 2018 Year in Review

Presenter: David Shahady U.S. Air Force SBIR/STTR Program Director







Our Leadership

OFFICE OF THE ASSISTANT SECRETARY OF THE AIR FORCE FOR ACQUISITION

Dr. William Roper - Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics

AIR FORCE SMALL BUSINESS PROGRAMS

Valerie Muck - Director, Air Force Office of Small Business Programs (OSBP)

Jeffrey Stanley - Deputy Ast. Secretary of the Air Force Office for Science, Technology, and Engineering

Neville Thompson - Air Force SBIR|STTR Program Element Monitor

AIR FORCE TECHNOLOGY EXECUTIVE OFFICER

Maj Gen William T. "Bill" Cooley - Air Force Research Laboratory (AFRL) Commander

AFRL SMALL BUSINESS (SB) OFFICE

William Harrison III - Director

AIR FORCE SBIRISTTR PROGRAM OFFICE

David Shahady - Program Director

Heather Gudorf - Operations Manager and Deputy Director

James Sweeney III - Commercialization Readiness Program (CRP) Manager

Oswaldo Delacruz - Infrastructure Manager

Rupak Shah - Financial Manager

Michelle Tritt - Contracting Officer







Program Oversight







Air Force Participating Organizations

CALIFORNIA

I. Edwards AFB

Air Force Research Laboratory
Air Force Flight Test Center

2. Los Angeles AFB

Space & Missile Systems Center

HAWAII

3. Maui

Air Force Research Laboratory

NEVADA

4. AFWERX

UTAH

5. Hill AFB

Air Force Sustainment Center

NEW MEXICO

6. Kirtland AFB

Air Force Research Laboratory
Air Force Nuclear Weapons Center

OKLAHOMA

7. Tinker AFB

Air Force Sustainment Center

TEXAS

8. Lackland AFB

Air Force Surgeon General Air Force Civil Engineer Center

9. AFWERX

OHIO

10. Wright-Patterson AFB

Air Force Research Laboratory
Air Force Life Cycle Management Center

TENNESSEE

II. Arnold AFB

Air Force Test Center

FLORIDA

12. Hurlburt Field

Air Force Special Operations Command

13. Eglin AFB

Air Force Research Laboratory
Air Force Life Cycle Management Center
Air Force Test Center

NEW YORK

14. Rome

Air Force Research Laboratory

MASSACHUSETTS

15. Hanscom AFB

Air Force Life Cycle Management Center

VIRGINIA

16. Arlington

Air Force Research Laboratory F-35 Joint Strike Fighter

WASHINGTON D.C.

17. AFWERX

18. MD5

GEORGIA

19. Robins AFB

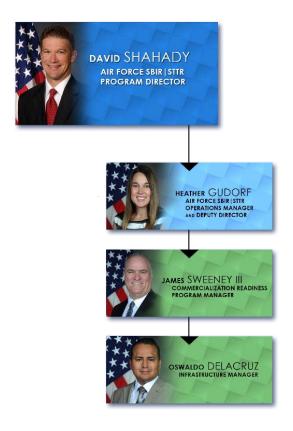
Air Force Sustainment Center







The SBIR|STTR Program Management Office







FY 18 BAA Schedule

PROGRAM	PRE-RELEASE	OPEN	CLOSE
SBIR 18.1 AND STTR 18.A	NOV 29, 2017	JAN 8, 2018	FEB 7, 2018
SBIR 18.2 AND STTR 18.B	APR 20, 2018	MAY 22, 2018	JUN 20, 2018
SBIR 18.3 AND STTR 18.C	AUG 24, 2018	SEP 24, 2018	OCT 24, 2018
XXXXXX		XXX	XXXXX







Standard Topics vs. Special Topics

- The Air Force SBIR/STTR Program provides undiluted capital as a means of leveling the playing field for small businesses involved in research, development, testing and evaluation of cutting-edge technologies and systems.
- In FY 2018, the program implemented several experimental processes designed to reduce the time to contract, increase exposure of the opportunity, to increase technology relevance, and to reduce time to transition.

PHASE II PHASE II PHASE III
PRE YEAR 1 YEAR 2 - 3 YEAR 4 - 8

PHASE III

TOPIC ENHANCEMENTS FOLLOW-ON PHASE II

COMMERCIALIZATION READINESS PROGRAM

PHASE 0 PHASE II
PRE 3 MONTHS 15 MONTHS

AIR FORCE SBIR/STTR STANDARD TOPICS

PHASE III

AIR FORCE SPECIAL TOPICS





Special Topics

"The resounding success of the easy entry and process for the topic with multiple awards that [AFWERX and Air Force SBIR/STTR] has enabled was so helpful that we have asked to do it again [during the 19.2 Broad Agency Announcement]. This has been an awesome model for PEOs that are looking to help close the transition gap between labs and PEOS."

- Capt Christopher Giacomo, AFLCMC Force Protection Division



- Epic streamlining and simplification of proposal process
- Provides Air Force innovation "store fronts" throughout the country
- Achieving success metric in 3 months





Air Force SBIR|STTR Special Topics

Air Force SBIR STTR Special Topics

MANAGING ORGANIZATION	TOPIC	BAA	PROPSALS	SELECTIONS
AFRL	Weather	18.2	27	12
AFRL	PNT Accelerator	18.2	36	8
AFWERX/AFRL	C-UAS	18.2	65	8
AFWERX/AFRL	Logistics	18.2	47	4
AFWERX/AFRL	Open Innovation	18.2	166	52
AFRL	RH Accelerator	18.2	33	8
AFRL/RV	Small Sat Extra Phase Is	18.2	80	5*
MD5	Human-Unmanned Teaming	18.3	43	TBD
MD5	Machine Learning	18.3	81	TBD
MD5	Security of Cyber-Physical Systems	18.3	62	TBD
MD5	Medical Monitoring, Diagnostics and Triage	18.3	50	TBD
AFRL/RQ	AF IP: Hair Sensor	18.3	4	TBD
AFWERX/AFRL	Open Innovation	18.3	279	84
AFWERX/AFRL	Training VR/AR	18.3	104	20

^{&#}x27;This was a traditional SBIR that received an overwhelming number of proposals. The Air Force SBIR STTR program manager for special topics provided them additional awards to determine if there was a positive result from making more awards.







SBIR|STTR Budgets

Annual Air Force SBIR Budget

	BUDGET	TOPICS	SBIR PH I PROPOSALS	SBIR PH I AWARDS	SBIR PH II PROPOSALS	SBIR PH II AWARDS
FY 2015	285,172,000	158	2,031	337	465	493
FY 2016	293,832,500	167	1,910	297	447	167
FY 2017	357,458,934	157	1,926	267	410	209
FY 2018	542,849,828	218	3,534	358	370	224

Annual Air Force STTR Budget

	BUDGET	TOPICS	STTR PH I PROPOSALS	STTR PH I AWARDS	STTR PH II PROPOSALS	STTR PH II AWARDS
FY 2015	39,000,000	29	274	76	56	16
FY 2016	43,928,499	29	196	65	82	48
FY 2017	50,111,066	38	267	56	75	30
FY 2018	81,597,172	37	316	50	77	33



SBIR|STTR Budgets

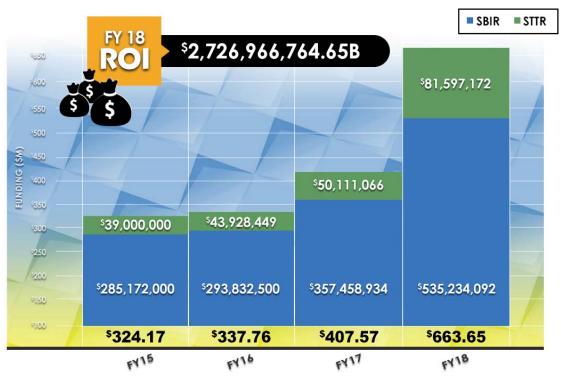
SBIR STTR Funding by State

STATE	TOTAL \$	STATE	TOTAL \$	STATE	TOTAL\$
AK	\$0	LA	\$750k	ОН	\$31.3M
AL	\$6.4M	MA	\$27.4M	OK	\$0
AR	\$750k	MD	\$11M	OR	\$4.8M
ΑZ	\$9.6M	ME	\$0	PA	\$5.8M
CA	\$46M	MI	\$5.8M	RI	\$150k
CO	\$20.7M	MN	\$2.3M	SC	\$0
CT	\$999k	MO	\$2.2M	SD	\$0
DE	\$900k	MS	\$898k	TN	\$50k
FL	\$11.6M	MT	\$0	TX	\$10.5M
GA	\$1.4M	NC	\$4.8M	UT	\$7.1M
HI	\$400k	ND	\$0	VA	\$16.5M
IA	\$900k	NE	\$0	VT	\$150K
ID	\$150k	NH	\$1.7M	WA	\$2M
IL	\$2M	NJ	\$4.1M	WI	\$1M
IN	\$1.5M	NM	\$8.1M	WV	\$750k
KS	\$0	NV	\$0	WY	\$1.4M
KY	\$1M	NY	\$9.4M	DC	\$50k
				PR	\$0





Total Air Force SBIR|STTR Funding





\$4.65B Phase III dollars since FY 15 \$2.7B in FY 18





SBIRTAP

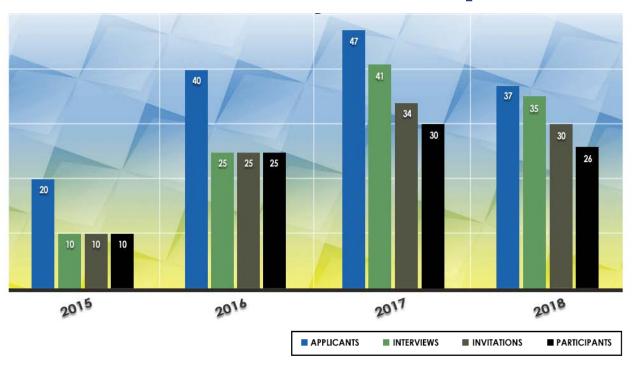
 The Air Force SBIR/STTR Technology Acceleration Program selects a group of small businesses that have received Phase I SBIR/STTR contracts from the Air Force. It supports these businesses in assessing the commercial viability of their technology, creating actionable commercialization plans, seeing investment capital, and in better preparing commercialization plans should they seek further Air Force funding through a SBIR Phase II request.







SBIRTAP Participation









Interagency Agreement with GSA



"GSA is honored to assist the Air Force in meeting its mission by providing additional contracting options for SBIR Phase III contracts. We understand the importance of the SBIR program to our warfighters and to our nation's economy and we are glad to have the opportunity to assist."

- Kim Brown

GSA Great Lakes Region Federal Acquisition Service Commissioner





Tech Warrior Enterprise



18 Tech Warrior CONNECT and 3 Tech Warrior OPS

events provided special operator and first responder communities with early demonstration of small business technologies





In 12 months

Tech Warrior Enterprise activities resulted in:

- 9 Phase I awards = \$580K
- 4 Phase II awards > \$9M
- 3 Phase II+ awards > \$7M
- 2 venture capital offers = \$2.5M
- 1 grant = \$100K









Tech Warrior Enterprise Participants



Mike Sutton Consulting, Inc.



- · ATV Corp.
- · Cryptomove
- · HarpoonX
- HVMN
- · Yotta Navigation Corp.



- Bloodstone Division, LLC
- · Mainstream Engineering
- · Virtual Reality Rehab, Inc.



- Georgia Institute of Technology
- Silver Oak Leaf, Inc.



Kingetics



· Carver Scientific, Inc.



- · 361 Interactive, LLC
- · AlphaMicron
- B5 Systems
- · Battle Sight Technologies
- · CFD Research Group
- · Cornerstone Research Group
- · The Design Knowledge Group
- · Eccrine Systems Inc.
- · Edaptive Computing, Inc.
- Functional Formularies
- GlobalFlyte, Inc.
- · Hyprum
- · IncludeHealth
- Selecttech Services Corp.
- · Three Firefighters
- · Unveil LLC



· Ameristar Solar



· Intelligent Automation

New Comer Arms, LLC



- · Aptima
- · ARMR
- · Legionarius
- · Puffin Innovations
- · Smarter Armour



· Propel LLC



- · SoarTech · yawPITCH



· Conductive Composites



- · Salient Technologies, Inc.



- · Kay Kare, LLC
- · Microinvestigate, LLC
- Protective Innovations



· Centeve



· Northern Star Fire







Small Business Outreach Events

- In FY 2018 the Air Force SBIR/STTR Program participated in a variety of outreach and training events, including:
 - Dayton Defense Member/Community Showcase
 - UDRI SBIR/STTR Proposal Writing Workshop
 - Small Business Matchmaker at Wright State University
 - Wright Dialogue With Industry
 - TRIAD Ohio
 - Briefing for Industry
 - 711th Human Performance Wing Bench to Business
 - Beyond Phase II

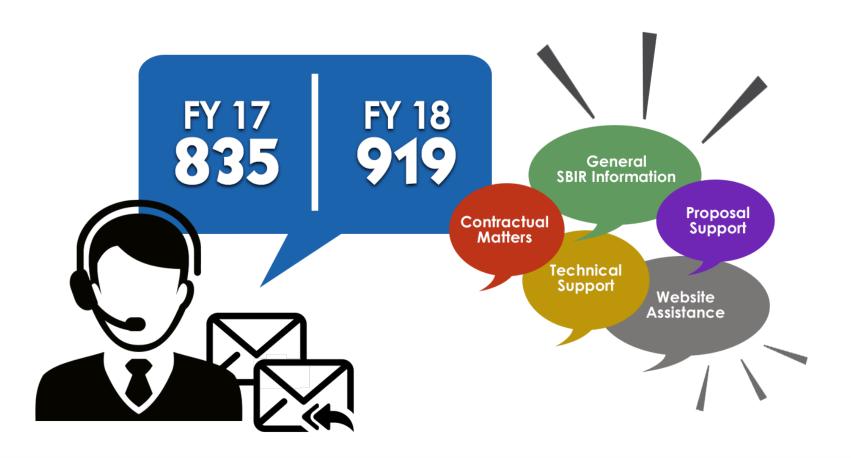


Reached > 2.6K attendees





SBIR|STTR Hotline

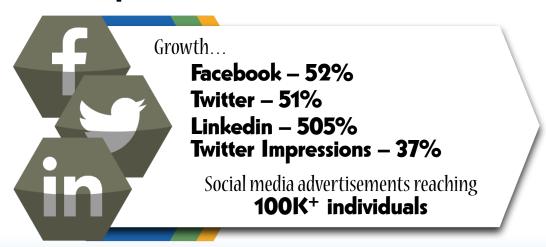






Our Social Media

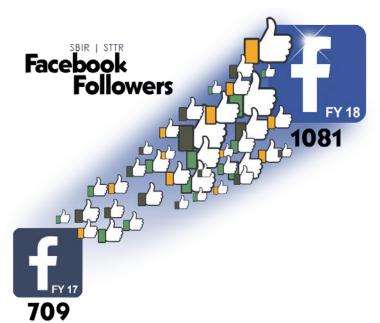
• In the interest of reaching a broad audience, including stakeholders, small business communities, and partners, the program management office has been active on several social media platforms.

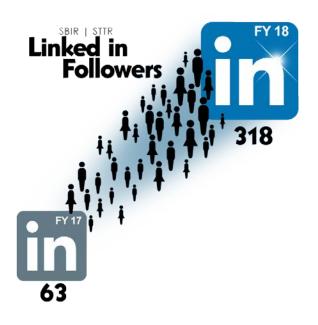




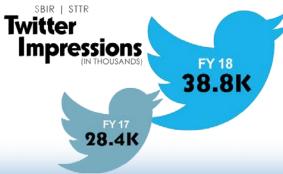


Social Media













FY 2018 Videos



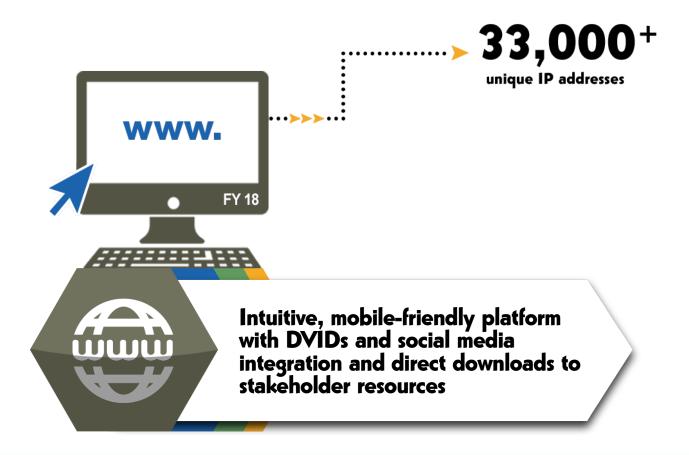


- Double the number of subscribers from previous years
- > 8% increase in video views





Program Website Modernization









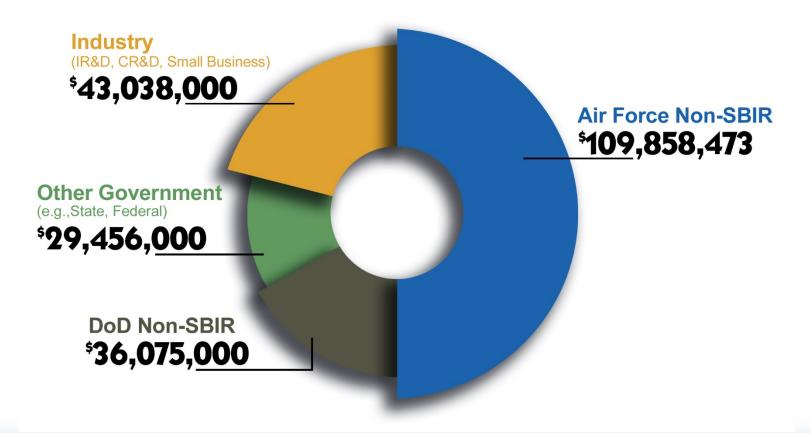
Commercialization Readiness Program

- The Air Force SBIR/STTR Commercialization Readiness program provides a strategically driven process that helps focus SBIR and STTR topics on high-priority needs and works with small businesses, program offices, program managers, technical points of contact and industry technology integrators to accelerate technology transition.
- Each year, the Air Force dedicates one percent of its overall budget to its CRP efforts.





Air Force SBIR|STTR Breakdown of Funding Leveraged







Technology Transition Plans

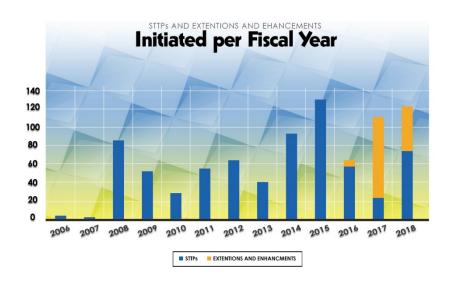
- The Air Force SBIR/STTR CRP approach brings together key stakeholders utilizing Air Force technology analysts to help focus topics on highpriority technology needs.
- In FY 2018, 83 projects were approved for CRP funding.
- Total Air Force CRP SBIR/STTR funding: \$140.6M
- Total non-SBIR/STTR funding: \$214.8M

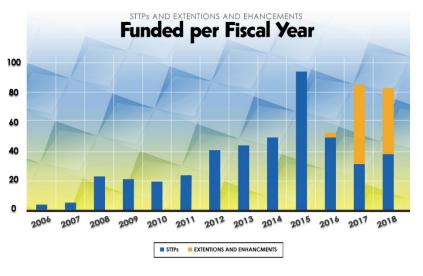




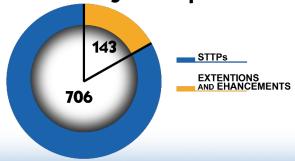


Extensions and Enhancements

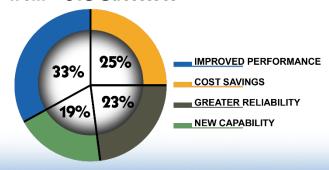




Total STTPs and Extensions and Enhancements Initiated Since Program Inception



Benefit to Warfighter from 2018 Successes







Small Business Industry Days

- SBIDs highlight existing small business products and capabilities, Air Force contracting opportunities, and technology development prospects by matching stakeholders from centers/PEOs, large business, and small business communities.
 - Armament Directorate, July 2014
 - Air Force Test Center, November 2014
 - Air Force Sustainment Center, July 2015
 - Air Force Space and Missile Center, October 2016
 - Air Force Test Center, November 2017
 - Air Force Sustainment Center, July 2018



235 attendees

representing small business, major defense contractors and government officials





Technology Interchange Meetings

- The Air Force SBIR/STTR CRP team leverages TIMs, tailored and unique technology meetings hosted at major defense contractor facilities, to bring together key stakeholders and to integrate small business capabilities with larger defense industries.
- In 2018:
 - Boeing
 - Harris Corporation, Northrop Grumman (previously Orbital ATK)
 - Raytheon
 - Rolls-Royce







Air Force Contracting Sprint

 Contracting officials and innovators from across the Air Force, looking to speed up the acquisition process, recently awarded more than 100 contracts in 40 hours.

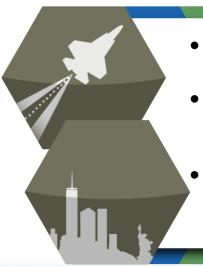


- Epic streamlining and simplification in Air Force contracting
- Solicitation to contract award cut from 180 days to a few days



AIR FORCE PITCH DAY

6-7 MARCH 2019 | NEW YORK CITY, NY



- An open door to sole-source contracts within a \$100 billion market
- Funding matching opportunities, reduced investment risk, and increased impact and success of U.S. technology startups
 - An easy connection point for prime contractors to try and test technologies against Air Force mission needs

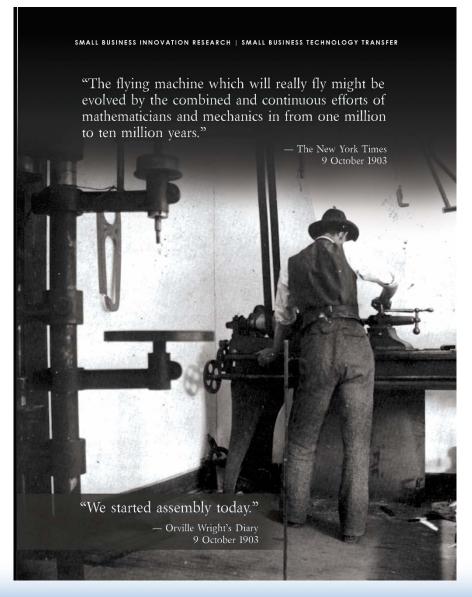


FY 19 BAA Schedule















QUESTIONS?

