DoD/Navy SBIR/STTR Overview

Small Business Innovation Research (SBIR) Small Business Technology Transfer (STTR)

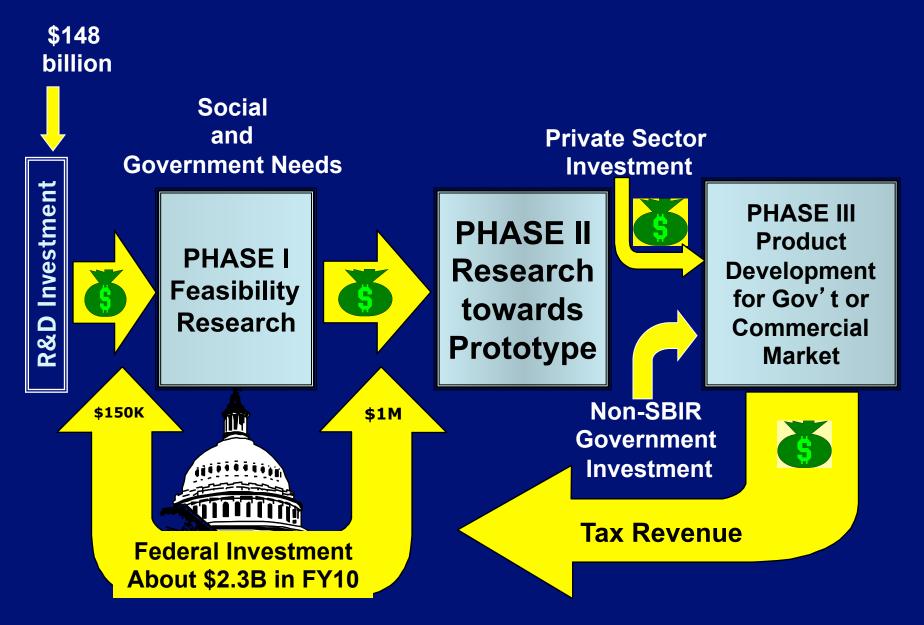
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24 August 2011

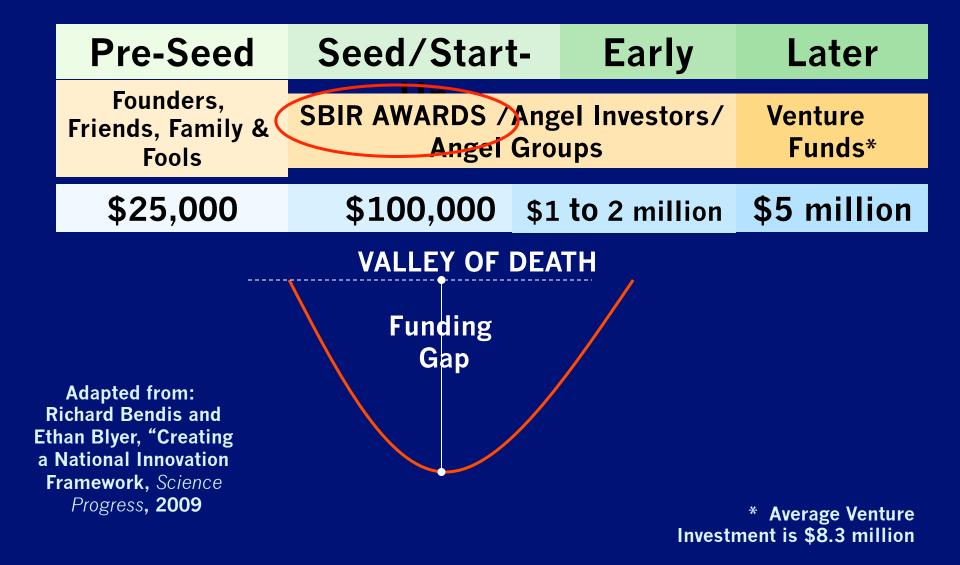
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Standard Form 298 (Rev. 8-98) Prescribed by ANSI Std Z39-18

The SBIR Process



The Early Stage "Valley of Death"



Why would a Small Business Want to Participate in the SBIR/STTR Program ?

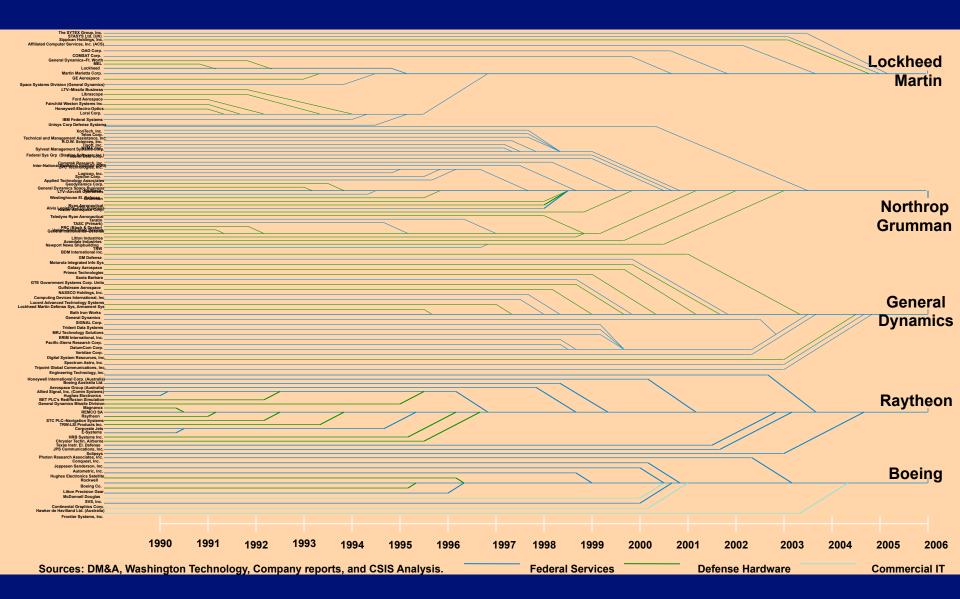
- Largest source early stage R&D funds for Small Business – Fed wide ~\$2.5B Navy >\$325M
- No dilution of ownership; owners retain control and retains data rights for 4 years or more (5 for DoD)
- Follow-on awards are contracted non-competitively
- Strong commercialization support
- No repayment is required
 - Government recoupment is through the tax system
- Certification effect draws in additional investment
 - Signal to private investors of technological validity and commercial promise of the innovation

SBIR's Advantages for Government

- A low-cost technological probe
 - Enables government to explore more cheaply ideas that may hold promise
 - Identifies dead-ends before substantial investments are made
- Quick reaction capability
 - Solicitations topics can respond rapidly to urgent national needs
 - Anthrax attacks led NIH to seek and get innovative biodefense technologies
- Diversifies the Government Supplier-base
 - Brings in competition, low-cost solutions, new approaches to address mission needs

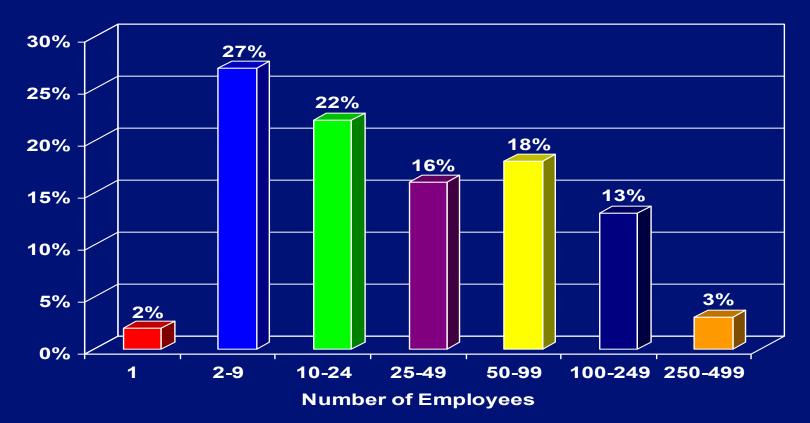
Over Two Decades of Consolidation:

What was over 100 "name plate" primes in the 80s is now five firms...



Small Business Winners

- Small hi-tech firms from across the country
- Many are firms 0 to 3 years old and SBIR funding first major source of funds



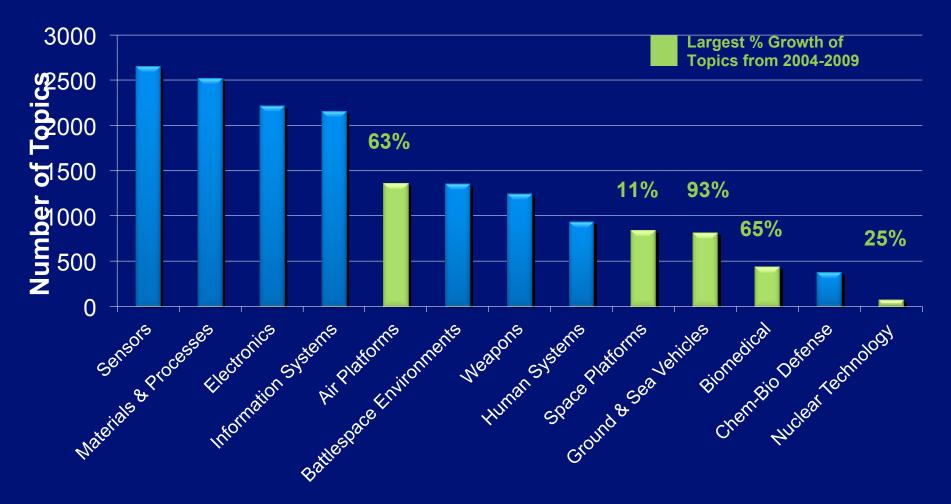
What is unique about the DoD SBIR/STTR Program?

Focused on the WARFIGHTER

• **BIGGEST** of the Agencies

 Both an investor and a small business ADVOCATE to the customer

DoD SBIR/STTR Investment Key Technology Areas



Source: SBIR & STTR solicitations, FY99-FY09

DoD Component Participation

The SBIR and STTR programs are executed by 12 and 6 participating DoD Components, respectively.

SBIR + STTR Programs





Defense Logistics Agency

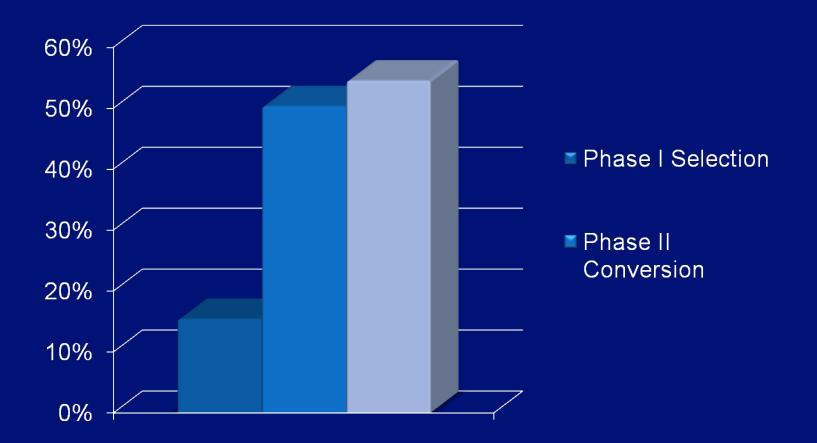


Defense Microelectronics Activity



National Geospatial Intelligence Agency

Historical SBIR Conversion Rates, by Program Phase



Based on all Phase I and Phase II contracts derived from 1996-2005 solicitations. Commercialization data taken from January 2010 DoD SBIR Commercialization Database.

Collaboration during the Solicitation Period

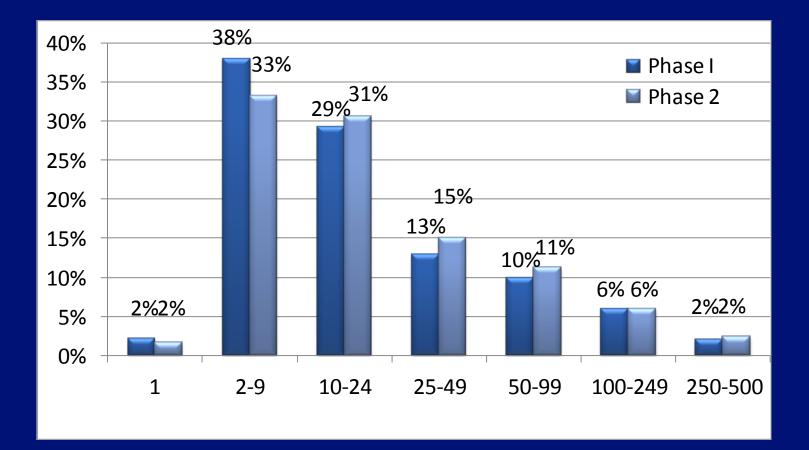
Topic Authors

- Q&A direct during pre-release
- Q&A electronic bulletin board (SITIS) from pre-release to close

Administrative Help Desk

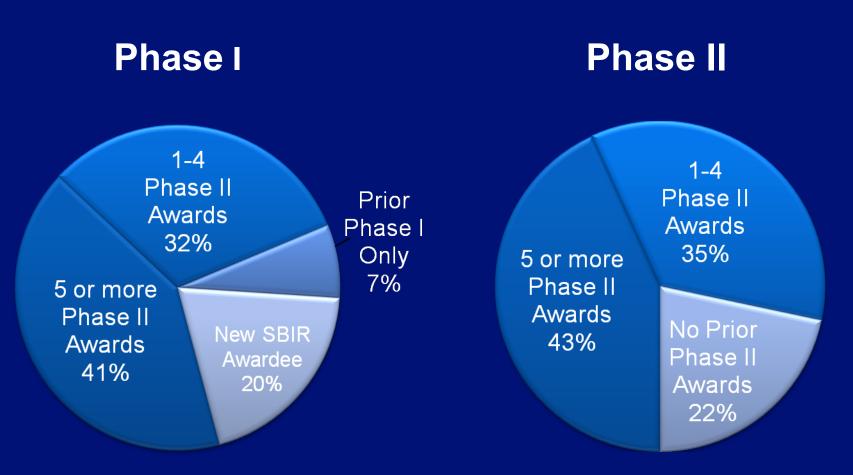
- Telephone 8am-5pm EST @ 866-724-7457
- Email 24 hours a day at www.dodsbir.net/ helpdesk

SBIR Award Recipient Distribution by Firm Size



Based on FY09 Annual Report; Firm Data taken from Company Commercialization Report

SBIR Award Recipient Distribution by Prior Experience



Based on FY09 SBIR Annual Report Data

Two main goals of Navy SBIR/STTR Program:

- Use small business to develop innovative R&D that addresses a Navy need
- Commercialize (Phase III) that technology into a Navy platform or weapons system



Navy by the Numbers

Metric	FY08	FY09	FY10
Total Funding per FY	\$274M	\$328M	\$342M
Navy SBIR Topics issued that FY	219	224	233
Number Of Phase I Proposals	2708	3555	4098
Navy Phase I Awards from FY Solicitations	555	597	658*
Avg time to award Navy Phase I contracts	4.5 mo	4.8 mo	4.3 mo*
Navy Phase II Awards during FY	272	240	296*
Avg time w/o funding between Phase I & II	8.2 mo	7.5 mo	8.6 mo*
# Phase II.5' s (>\$1M) ending in FY	43	45	63
Navy Phase III Awards during FY	90	126	131
Amount of Navy Phase III Awards that FY	\$307M	\$362M	\$566M
SBIR/STTR Projects presented at Forum	172	177	205
Attendees at Navy Opportunity Forum	1,252	1,448	1,367

* Awards still being made On Average 1500 SBIR and 200 STTR Open Contracts to manage

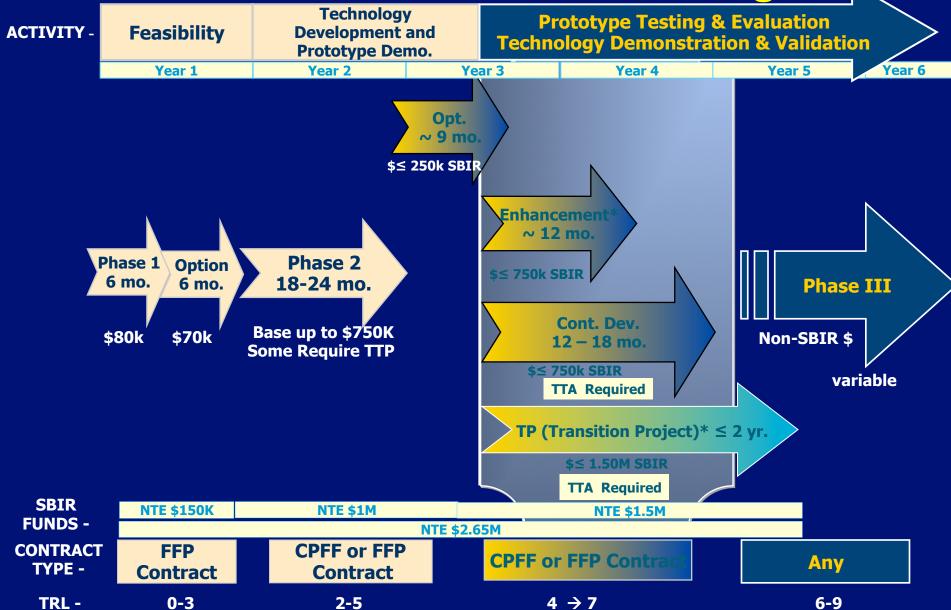
Navy SBIR Organization

- Program Administered by the Office of Naval Research
- Program Participants
 - Naval Sea Systems Command (NAVSEA): Warfare Centers, PEO's and Program Managers
 - Naval Air Systems Command (NAVAIR): Warfare Centers, PEO's and Program Managers
 - Office of Naval Research (ONR): Science & Technology Directorates and Naval Research Laboratory
 - Space & Warfare Sys. Command (SPAWAR): Warfare Centers, PEO's and Program Managers
 - Marine Corps Systems Command (MARCOR): Direct Reporting Program Managers
 - Naval Supply Systems Command (NAVSUP)
 - Naval Facilities Systems Command (NAVFAC)

Navy follows TECHNOLOGY PULL APPROACH

- Over 80% of Navy Topics are selected by PEO/ PM/FNC office and address one of their specific needs -- not just "sponsored by"
- Topics and awards based on their R&D priorities and SBIR funding allocation. The PEO gets back 90% of their tax
- Many contracts awarded/monitored by lab employees with Acquisition Office POC involved

NAVY SBIR/STTR Award Structure and Phase II.5 — Transition Strategies



Navy SBIR/STTR Website www.navysbir.com



EXCELLENCE IN TECHNOLOGY

Home | Solicitations | Search Awards Database | Submission | Contacts | Help

Navy SBIR / STTR Home

2009 Virtual Acquisition Showcase



About SBIR/STTR

FAQs

Events Calendar

Phase II

CPP

Solicitation

Submission



Program

The 2010 Navy Opportunity Forum June 7 - 9, 2010 Hyatt Regency * Crystal City, VA

Upcoming Navy SBIR/STTR solicitations

Release Dates

The Navy SBIR/STTR solicitations are released as part of the DoD SBIR/STTR solicitation process. On average, the Navy and DoD release 3 SBIR solicitations per fiscal year. The Navy STTR program generally participates in only 1 solicitation per year, normally released in January.

Opens

Closes



Tips for Succeeding w/Navy

Just Getting Started?

- Research topics consistent with your business strategy. Current and past solicitations identify Navy technology needs. Know Navy structure.
- Submit proposals for solicitations your company can solve. Prepare to be innovative.

Already have a Phase I?

- Know your target platform/system for insertion.
- Build strategic partnerships (Primes, Universities, Acquisition Managers, Program Managers).
- Plan commercialization path early with TPOC.

How To Search Current SBIR/STTR Solicitations

Federal Wide www.zyn.com/sbir

DoD Only www.dodsbir.net

Good for get list of all topic titles but ZYN is better as topic search tool

Search project inventory www.navysbirsearch.com

	Supporting reconological	al innovation - Providing Cutting-Edge Solutions - Stimulating Economic Growth			
Search					
General Search DTIC Categories					
Enter Query Text: New Query	Query Refinement: > microbial fu				
microbial fuel cell		Show Help			
1	Data Sources	Display Type Claud Chater			
		Concept Cloud Display Type: <u>Cloud</u> Clusters			
]	All Data Sources Neur Awards (2550)	addition to this important + civilian markets + COSt effective + directed energy + electrical			
>> Advanced Ontions Search	 Navy Awards (2560) Army Awards (81) 	power + electroactive polymers + military and commercial + novel material			
>> Advanced Options Search	 Army Awards (81) Air Force Awards (93) 	 oxidation process - Physical Sciences - potential commercial - service life 			
Information Sources:	Air Force Awards (93) Other DoD Awards (58)	+ shipboard wastewater + significant market for the resultant + surface ships + undersea vehicles			
Navy Awards	Other Dob Awards (30)	• waste disposal • wastewater treatment • Water Contaminants			
Army Awards					
Air Force Awards	<< Previous	Displaying 1 - 15 out of 2792 Total Results Next>>			
Other DoD Awards	96 62% Benthic M	Microbial Fuel Cells Engineered for High Power Density			
Virtual Showcase Awards	96.62% Bentric Microbial Fuel Cells Engineered for High Power Density. This will be accomplished by selective preemptive colonization of				
	summary: Bentric Microbial rule cells Engineered for High Power Density. This will be accomplished by selective preemptive colonization of electrodes with naturally-derived marine or sedimentary microbial populations that most effectively generate electrical current. Anticipated				
Success Stories	benefits of the benthic fuel cell-based power device as compared to existing marine power sources, such as sea water batteries Topic Number: N08-T028				
Summary Reports					
	Firm Name: Scribner Associates Incorporated				
Phase:	Phase:				
	Award Start Date: 06/23/2008				
Firm DUNS	Award End/Mod Date: 07/0	/08/2009			
Firm Name	Source: Navy Awards				
Topic Number					
Award TPOC	96.62% High Power Density Sediment Microbial Fuel Cell for Powering Seafloor Sensors				
Fiscal Year	Summary: High Power Density Sediment Microbial Fuel Cell for Powering Seafloor Sensors. To reach the Navys target power density for and insertions that calls a dramatic immersion microbial fuel cell destroid aurorat density must be achieved au				
Contract No	sedimentary fuel cells a dramatic improvement in microbial fuel cell electrode current density must be achieved. Lynntech, in collaboration with Texas A&M University, proposes to solve these problems utilizing novel materials and unique biomimetic electrode designs to great				
If unsure of spelling, check to	Topic Number: N08-T028				
	Firm Name: Lynntech, Inc.				
perform fuzzy word search	Phase:				
	Award Start Date: 06/23/2008				
Number of Results: 15 💌	Award End/Mod Date: 04/24/2009				
	Source: Navy Awards				
Sort By:					
Relevance + Date 💌	96.62% Rapid Bior	pelectrochemical Monitoring Shipboard Effluent			
Federate Search to DTIC?	Summary: Rapid Bioelectrochemical Monitoring Shipboard Effluent. To address the Navys need for real time monitoring of organics in wastewater treatment systems, Lynntech proposes a microbial fuel cell based sensor for monitoring Biological Oxygen Demand (BOD) of shipboard effluents. By providing near real-time feedback about the performance of marine sanitation devices, crew members can adjust the				

Questions?