



SBIR/STTR Background and Charge to SMRB

SBIR/STTR Working Group October 3, 2012

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Overview

Charge to the SMRB

Process for Considering Change

Preliminary Findings

Goals of Today's Meeting



Impetus for SMRB Charge

- With a total budget of nearly \$32 billion, NIH funds one of the largest SBIR/STTR programs (FY12 = \$717 million)
- The mission of NIH to seek fundamental <u>knowledge</u> about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce the burdens of illness and disability – makes the NIH SBIR/STTR programs unique in that:
 - The NIH mission is not focused on developing products and technologies for use by NIH; and
 - Identifying what has potential "commercial value" that aligns with the NIH mission can be both challenging and complex.



Impetus for SMRB Charge (cont.)

 Reauthorization of the SBIR/STTR* programs requires increasing the set-aside percentages over the course of the next 6 years despite the projection of flat budgets

Fiscal Year	SBIR Set-Aside	STTR Set-Aside
2012	2.6%	0.35%
2013	2.7%	0.35%
2014	2.8%	0.40%
2015	2.9%	0.40%
2016	3.0%	0.45%
2017	3.2%	0.45%

^{*}P.L. 112-81



Charge to the SMRB

Recommend strategies for how NIH can optimize its utilization of the SBIR/STTR programs in keeping with the NIH mission.



Charge Considerations

How can NIH support the SBIR/STTR programs in ways that:

- Foster innovation within small businesses that aligns with the priorities of the NIH ICs;
- Fund quality proposals yielding the greatest potential for successful commercialization; and
- Leverage existing resources and expertise to enable the success of its grantees.



Working Group Roster

Non-Federal

Solomon Snyder, MD (Chair)

William Brody, MD, PhD

Gail Cassell, PhD

Hon. Daniel Goldin

Arthur Rubenstein, MBBCh

Norman Augustine (ad hoc)

Federal

Josephine Briggs, MD

Richard Hodes, MD

Roderic Pettigrew, PhD, MD

Susan B. Shurin, MD (ad hoc)

Harold Varmus, MD/Michael Weingarten (ad hoc)



Framework for Deliberating Organizational Change and Effectiveness

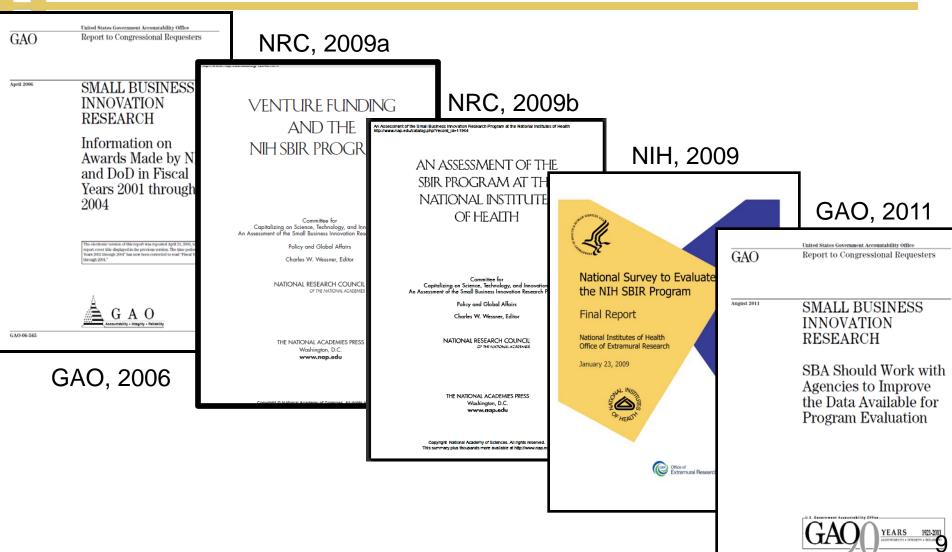
 Apply framework and process for considering change, as outlined by the Deliberating Organizational Change and Effectiveness (DOCE) Working Group:





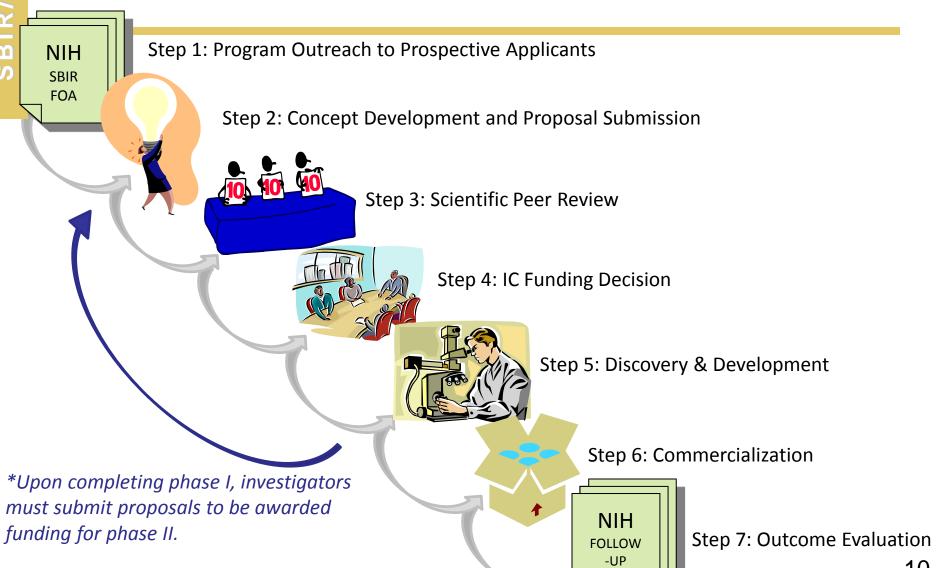
GAO-11-698

Data Collection: Prior Recommendations





Data Collection: SBIR/STTR Lifecycle





Preliminary Findings: From Good to Great

- NIH SBIR/STTR programs are meeting their statutory objectives
- Flexibility in IC program management is a considerable strength
- ICs vary considerably in terms of degree of program management, size of budget, implementation of pilot initiatives, assessment of success, etc., creating a unique opportunity to leverage lessons learned



Preliminary Findings: From Good to Great (cont.)

- Recommendations to date are "designed to improve the operation of an already effective SBIR program at NIH" (NRC, 2009) and relate to:
 - Establishing reliable metrics and outcomes that can be used to assess the program's impact on supporting small businesses and advancing human health
 - Strengthening the application process to save small businesses both time and effort
 - Enhancing scientific peer review and the criteria by which applications are judged
 - Defining and tracking success, in considering the public's investment in these programs



Meeting Goals

PANEL PRESENTATION I

Discussion with Representatives of the Small Business Community

Session Goals

- Solicit input from cutting-edge innovators about their experiences in commercializing biomedical products and with the NIH SBIR/STTR programs (if applicable)
- Identify ways in which SBIR/STTR programs could be strengthened, taking into consideration each step of the SBIR/STTR lifecycle
- Discuss the role of SBIR/STTR programs in the commercialization process and consider metrics for evaluating grantees success



Meeting Goals

PANEL PRESENTATION II

Discussion with Investors in Biomedical Research

Session Goals

- Solicit input from entrepreneurs regarding their experiences investing in biomedical products developed by small businesses
- Describe characteristics of projects that tend to achieve success in commercializing products and identify associated milestones for predicting this success
- Discuss the role of SBIR/STTR programs in the commercialization process and identify ways in which these programs could be strengthened



Meeting Goals

PANEL PRESENTATION III

Strategies for Increasing Commercialization

Session Goals

- Identify challenges faced in moving promising biomedical products through the discovery and investment cycles
- Discuss strategies and best practices for increasing the commercialization of biomedical products
- Deliberate the role of NIH SBIR/STTR programs in the commercialization pipeline for biomedical products