



# 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%

<sup>\*</sup>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

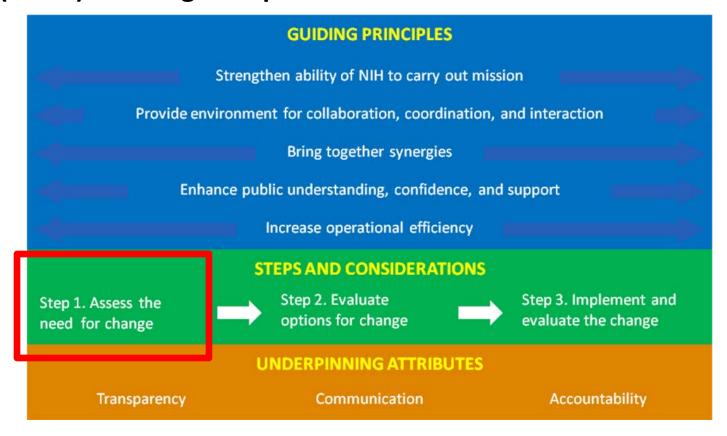
Susan B. Shurin, MD (ad hoc)

Harold Varmus, MD/Michael Weingarten (ad hoc)



## Framework for Deliberating Organizational Change and Effectiveness

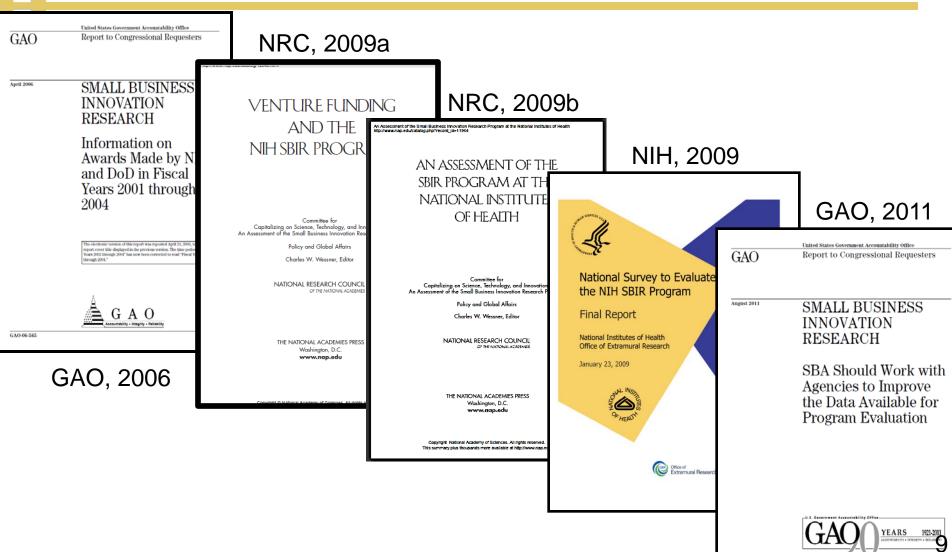
 Apply framework and process for considering change, as outlined by the Deliberating Organizational Change and Effectiveness (DOCE) Working Group:





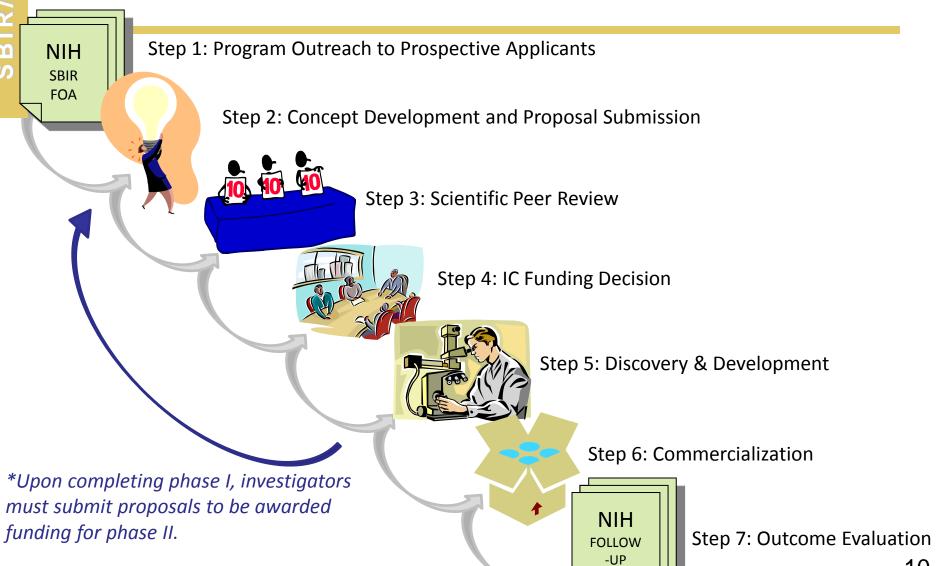
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### **Data Collection: Prior Recommendations**





## **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