



NIH SCIENTIFIC MANAGEMENT REVIEW BOARD



SBIR/STTR Background and Charge to SMRB

**SBIR/STTR Working Group
July 11, 2012**

A series of five horizontal bars in green, red, blue, purple, and gold, stacked vertically and slightly offset to the right.

Solomon Snyder, MD

Professor of Neuroscience, Pharmacology and Molecular Sciences, and Psychiatry - Johns Hopkins University

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 knowledge 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

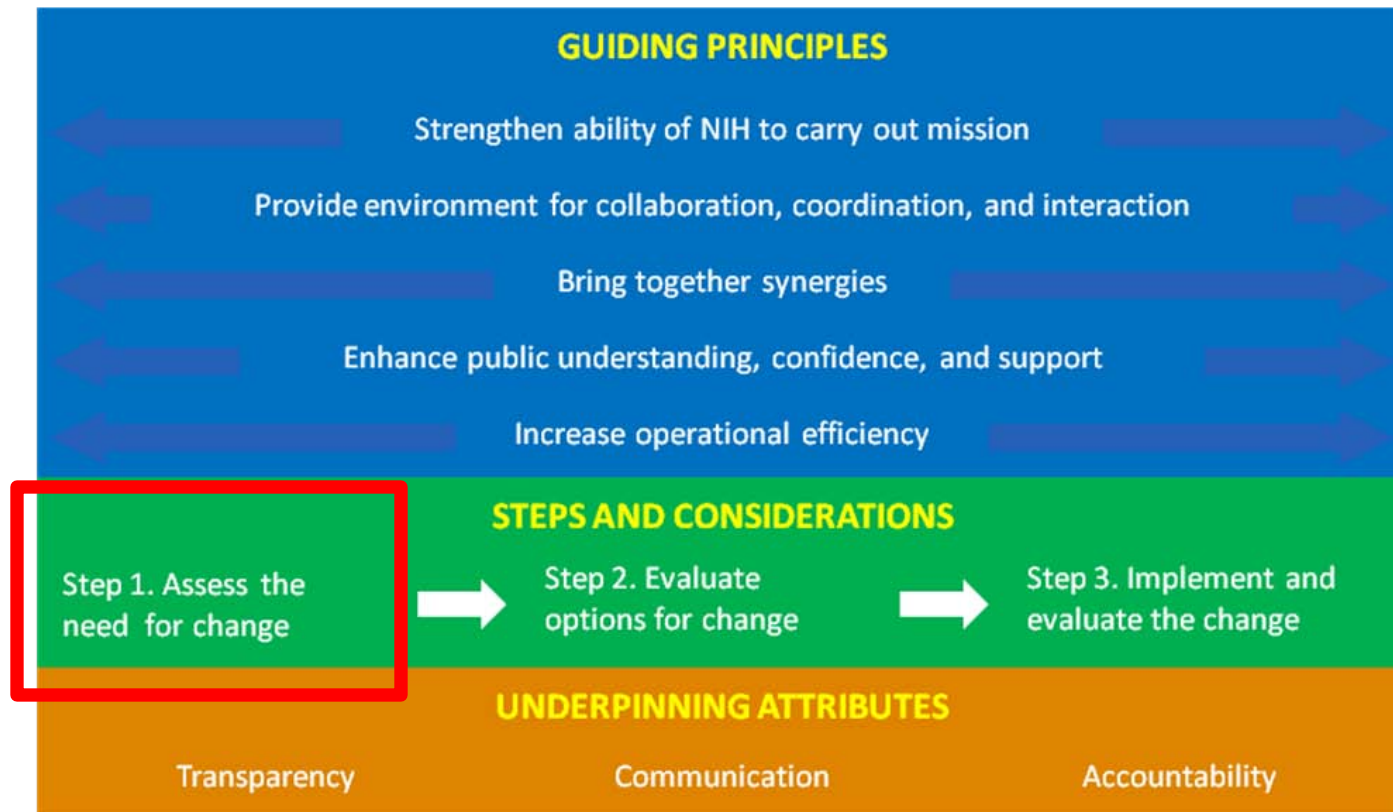
Roderic Pettigrew, PhD, MD

Susan B. Shurin, MD

**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:





Data Collection: Prior Recommendations

GAO United States Government Accountability Office Report to Congressional Requesters

NRC, 2009a

April 2006
SMALL BUSINESS INNOVATION RESEARCH
Information on Awards Made by N and DoD in Fiscal Years 2001 through 2004

VENTURE FUNDING AND THE NIH SBIR PROGRAM

NRC, 2009b

NIH, 2009

GAO, 2011

The electronic version of this report was reprinted April 21, 2006, in report cover side displayed in the previous version. The time period from 2002 through 2004 has now been corrected to read "Fiscal Years 2001 through 2004."

Committee for Capitalizing on Science, Technology, and Innovation
An Assessment of the Small Business Innovation Research Program

Policy and Global Affairs
Charles W. Wessner, Editor

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An Assessment of the Small Business Innovation Research Program at the National Institutes of Health
<http://www.nap.edu/catalog.php?RecordId=11564>

AN ASSESSMENT OF THE SBIR PROGRAM AT THE NATIONAL INSTITUTE OF HEALTH

Committee for Capitalizing on Science, Technology, and Innovation
An Assessment of the Small Business Innovation Research Program

Policy and Global Affairs
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National Survey to Evaluate the NIH SBIR Program
Final Report
National Institutes of Health
Office of Extramural Research
January 23, 2009

GAO United States Government Accountability Office Report to Congressional Requesters

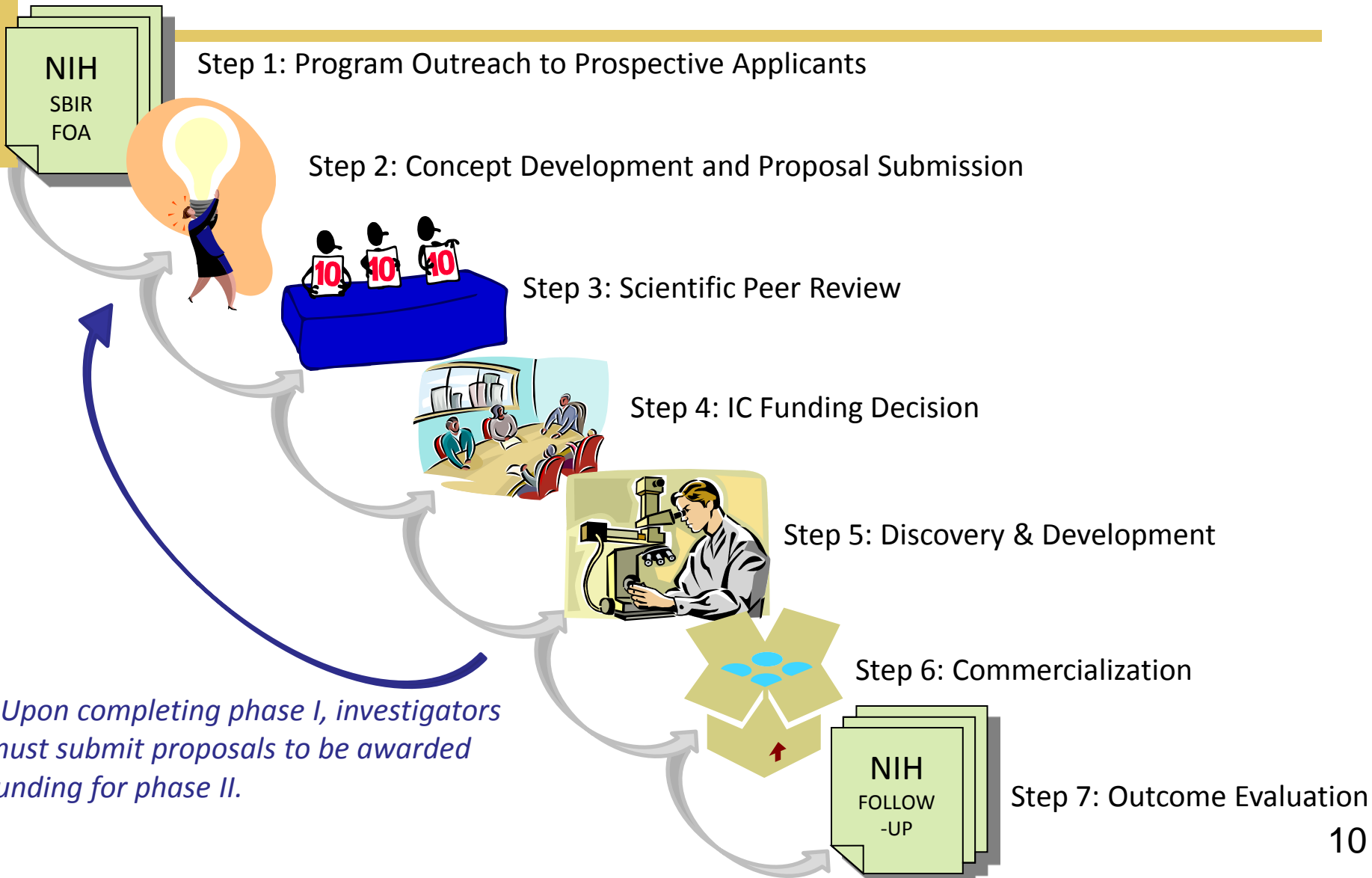
August 2011
SMALL BUSINESS INNOVATION RESEARCH

SBA Should Work with Agencies to Improve the Data Available for Program Evaluation

GAO, 2006



Data Collection: SBIR/STTR Lifecycle



**Upon completing phase I, investigators must submit proposals to be awarded funding for phase II.*

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 PRESENTATIONS

Innovation within the SBIR/STTR Programs

- **Panel Session I - Pilot Initiatives across NIH**
 - ***Session Goal:*** Learn about SBIR/STTR programs across NIH and how individual institutes and centers optimize these programs to align with their missions/priorities
- **Panel Session II - Programs within Other Federal Agencies**
 - ***Session Goal:*** Learn about SBIR/STTR programs across the Federal government and how individual agencies optimize these programs to align with their missions/priorities

Meeting Goals *(cont.)*

WORKING LUNCH

Characteristics of a Successful SBIR/STTR Program

- **Panel Session III - Defining Metrics and Outcomes of Success**
 - *Session Goals:*
 - Discuss existing efforts to define and measure success both in terms of advancing the NIH mission and meeting SBIR/STTR program goals
 - Discuss the expectations of the small business community regarding SBIR/STTR programs and how the SBA assesses the value of the government's investment in these programs