

SEEDing Healthcare Innovation with the

Matt McMahon, PhD



Director, SEED (Small business Education & Entrepreneurial Development)
Office of the Director | Office of Extramural Research | National Institutes of Health

Government-University-Industry Research Roundtable (GUIRR) webinar , May 27th, 2021



What's the problem we're trying to solve?

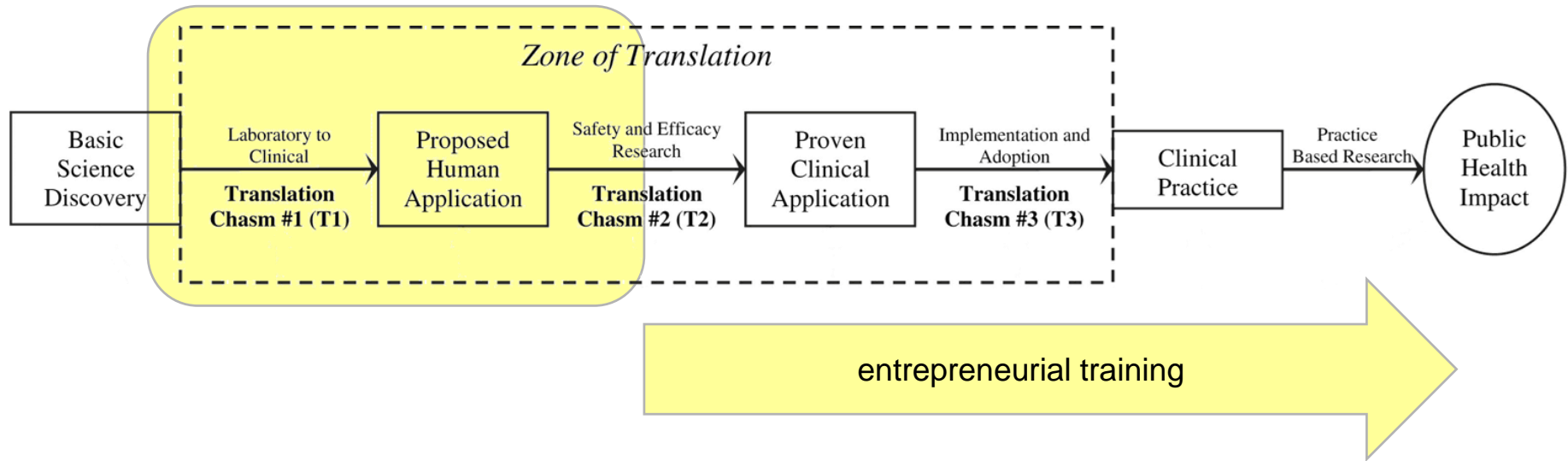


National Institutes of Health

Turning Discovery Into Health

What's the problem we're trying to solve?

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 illness and disability.**



Small business Education and Entrepreneurial Development (SEED)

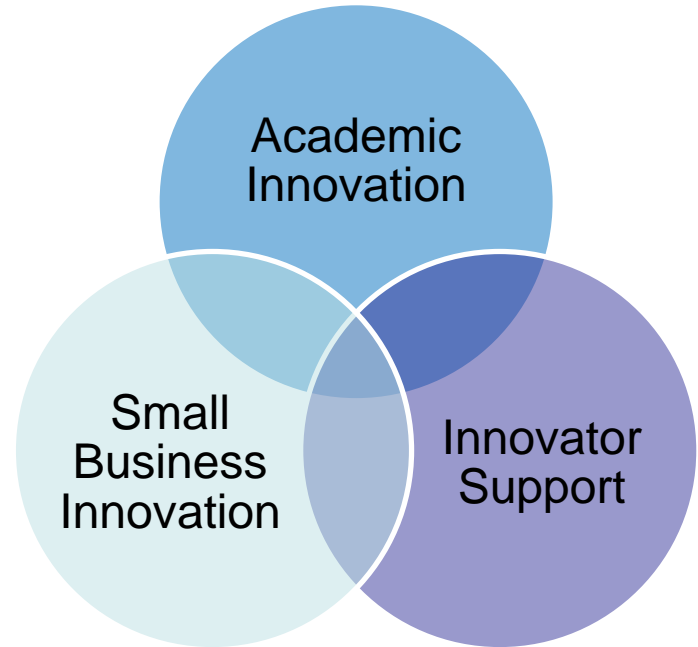


Identify and scale approaches that convert scientific discoveries into impactful healthcare solutions

Coordinate early-stage product development activities across the NIH

Inspire and support a diverse entrepreneurial workforce

Demonstrate NIH's role in improving patient care and driving economic growth



Coordinate and synergize NIH **Product Development** funding, programs, and resources that support **Academic Innovators**



Network of NIH Proof-of-Concept Centers



Funding for
Product Validation



Training and
Resources

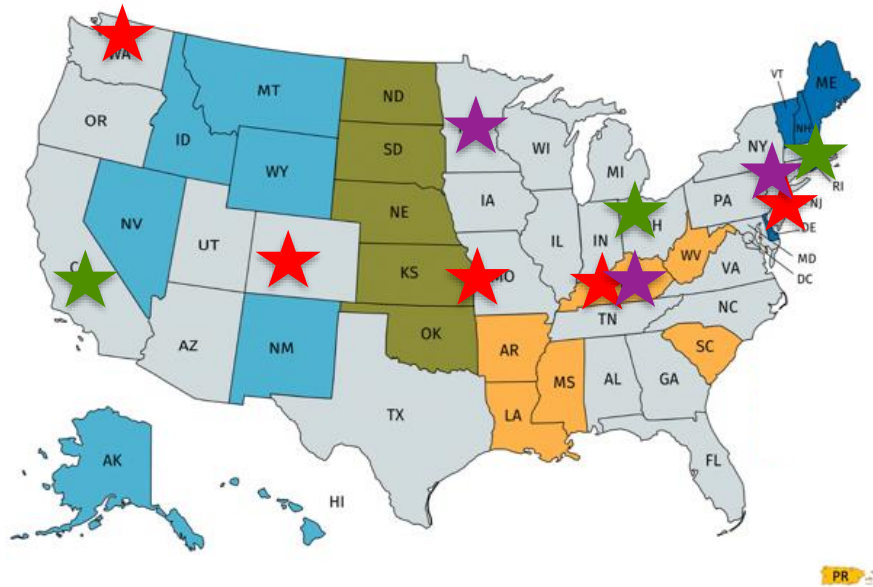


Project
Management



Personalized
Feedback

Network of NIH Proof-of-Concept Centers







NIH Centers for Accelerated Innovation (NCAI) – 2013

- 29 universities and research institutions

Research Evaluation And Commercialization Hubs (REACH) – 2015 and 2019

- 6 universities – REACH 2015
- 43 universities/colleges – REACH 2019

IDEA States Regional Technology Transfer Accelerator Hubs – 2018

-  Southeast: XLerator Network
-  Northeast: DRIVEN
-  Central: SHARP
-  Western: ASCEND

Proof-of-Concept Network Outcomes

NIH Investment
= \$52 million



379 Funded
R&D Projects



2,962 **Academic Innovators**
receiving entrepreneurial training



88 startups



86 SBIR/STTR applications
36 SBIR/STTR awards



**\$1.5 billion in private sector
follow-on-funding**



17 tech licenses
14 license options

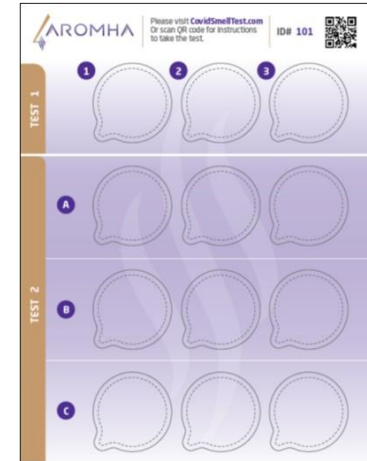
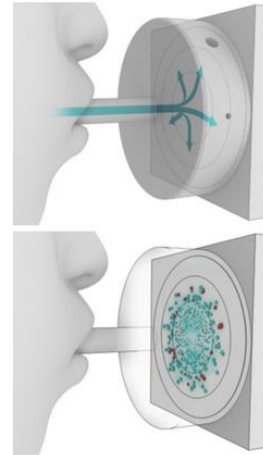
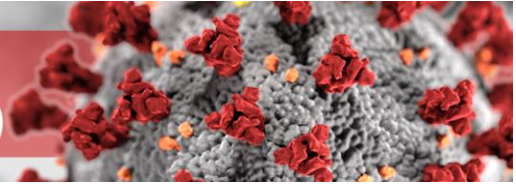
9 projects over \$10 million
3 projects over \$100 million

Addressing unmet medical needs

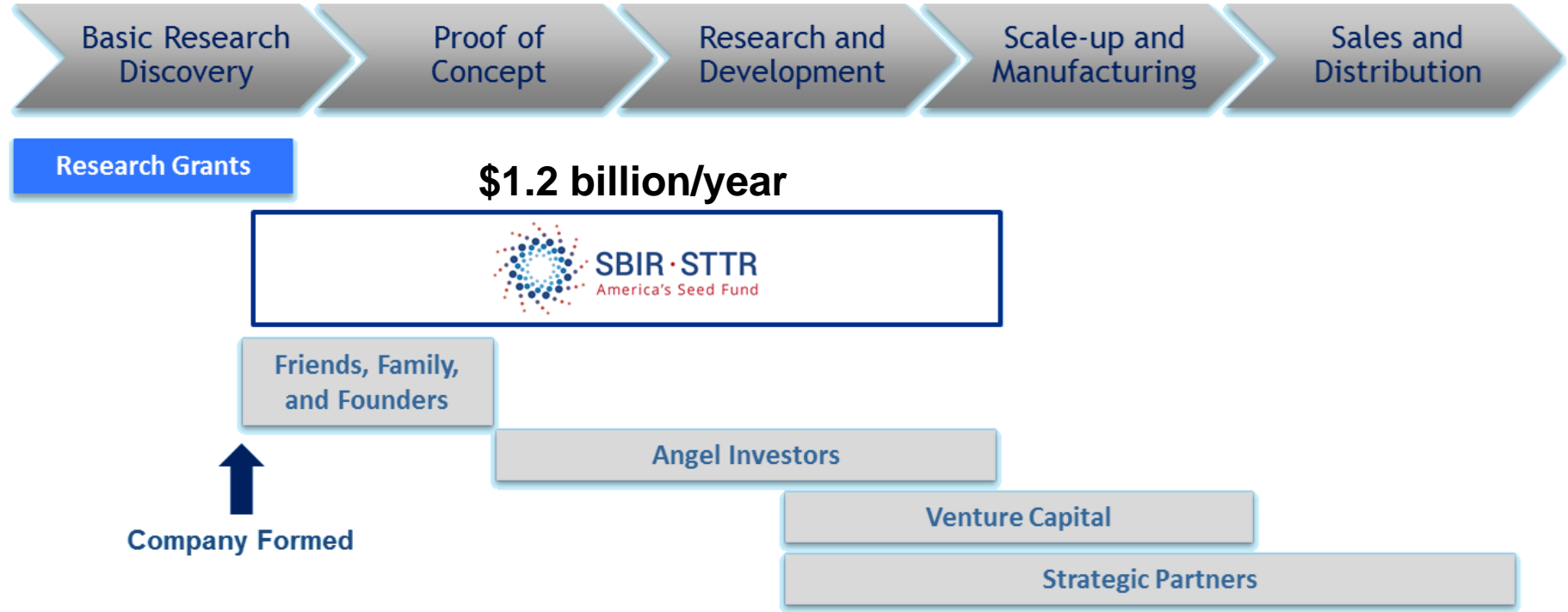


“If not for acceleration effect of BBIC, this would have been a continuation of an academic project.”

Rapid Acceleration of Diagnostics (RADx)



NIH works with Small Businesses to *Turn Discovery Into Health*





HEALTHTECH PARTNERING WEEK

MARCH 15-19, 2021
www.healthtechpartneringweek.com



RESI REDEFINING
EARLY STAGE
INVESTMENTS



LONGEVITY
HEALTH &
INNOVATION



Drugs
Devices
Diagnostics
Digital Health



ANGEL CAPITAL ASSOCIATION

sbir.nih.gov/stories

Success Stories Supported by America's Seed Fund

The NIH is actively turning discovery into health by helping academic innovators and small businesses develop innovative technologies that improve health and save lives.

Technology

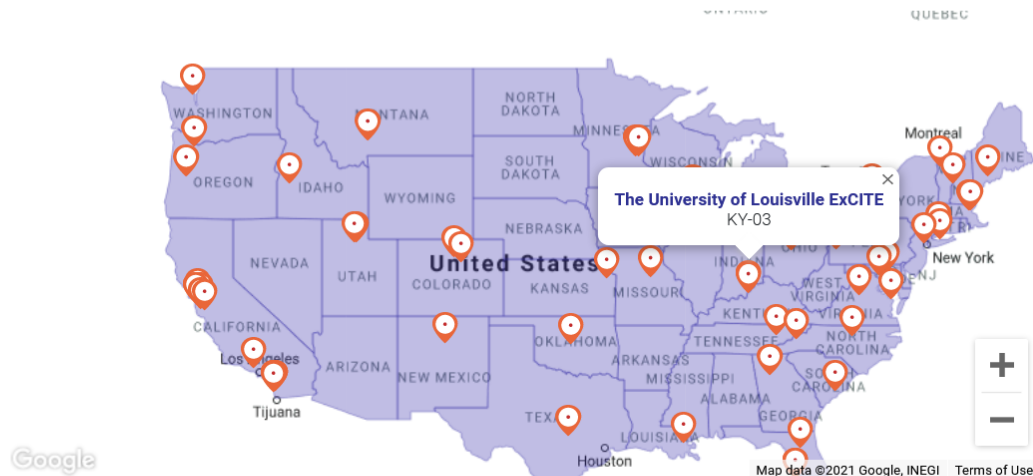
- ☐ Diagnostic
- ☐ Digital Health
- ☐ Drug
- ☐ Medical Device
- ☐ Research Tool

Development Stage

- ☐ Approved for Use
- ☐ Early Development
- ☐ Human Testing

Innovator Setting

- ☐ Academic Innovation
- ☐ Woman Owned Business
- ☐ Minority Owned Business



Displaying results 1 to 10 of total 70

Results per page

10

Company / Institution	Story	State - District
The University of Louisville ExCITE	Preservation Breakthrough Enables Freeze Dried Blood with A Long Shelf Life	KY - 03
Long Island Bioscience Hub (LIBH)	Artificial Brain Improves Power of Functional MRI as a Diagnostic Tool	NY - 01

Entrepreneurial Workforce Diversity

Develop strategies to increase participation of under-represented groups in the product development ecosystem (academic and small business)



www.nih.gov/ending-structural-racism/unite

20 Success
Stories (and
counting!)

Company Ownership

- ☒ Woman Owned
- ☒ Minority Owned



APRIL 26 - 30

FREE VIRTUAL EVENT

2021 HHS Small Business Program Conference

Diverse Perspectives SEEDing Impactful Innovations



Collaborating with SEED



Matt McMahon

Director

mm@nih.gov



Ashim Subedee

Academic Innovation Lead

ashim.subedee@nih.gov



Stephanie Fertig

HHS Small Business Program Lead

stephanie.fertig@nih.gov



Chris Sasiela

Innovator Support Team Lead

chris.sasiela@nih.gov

info@seed.nih.gov

seed.nih.gov Coming in June...

