



ASTC Federal Agency Engagement Webinar

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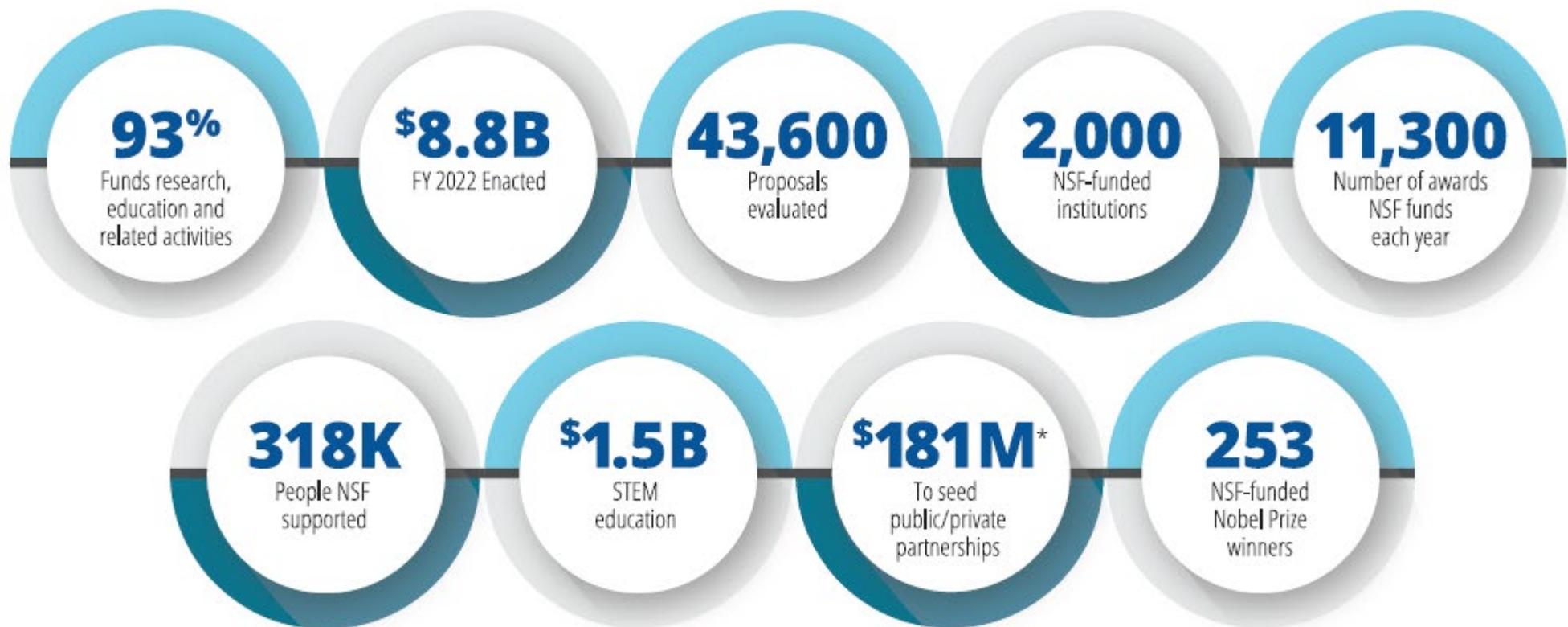
July 19, 2022

National Science Foundation

- An independent federal agency created by Congress in 1950 "*to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense...*"
- Vital because we support basic research and people to create knowledge that transforms the future.



NSF BY THE NUMBERS



Data represents FY 2021 Actuals unless otherwise indicated.

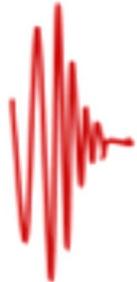
**Corresponds to NSF investments initiated in FY 2021 and spanning multiple years.*



Examples of Significant NSF Investments

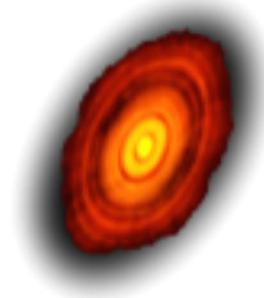


3-D PRINTING
BREAKTHROUGH



LIGO
GRAVITATIONAL WAVES

AUTONOMOUS CAR
SOFTWARE



HL TAU
DISCOVERY



FOUNDATION FOR
THE INTERNET



SBIR

BARCODES
POPULARIZED



EARLY WEB
BROWSER

NSF'S MISSION

To promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense.

Director's Vision



Advance the frontiers of research into the future



Ensure accessibility and inclusivity



Secure global leadership

We are in a **DEFINING MOMENT**



Intensity of global competition



Urgent need for domestic talent



Broad support for science as path for solving global grand challenges

We can accomplish this vision with:

SPEED AND SCALE



TIP: Accelerating Research Toward Impact

TIP integrates with NSF's existing directorates and fosters partnerships—with government, industry, nonprofits, civil society and communities of practice—to leverage, energize and rapidly bring to society use-inspired research and innovation.

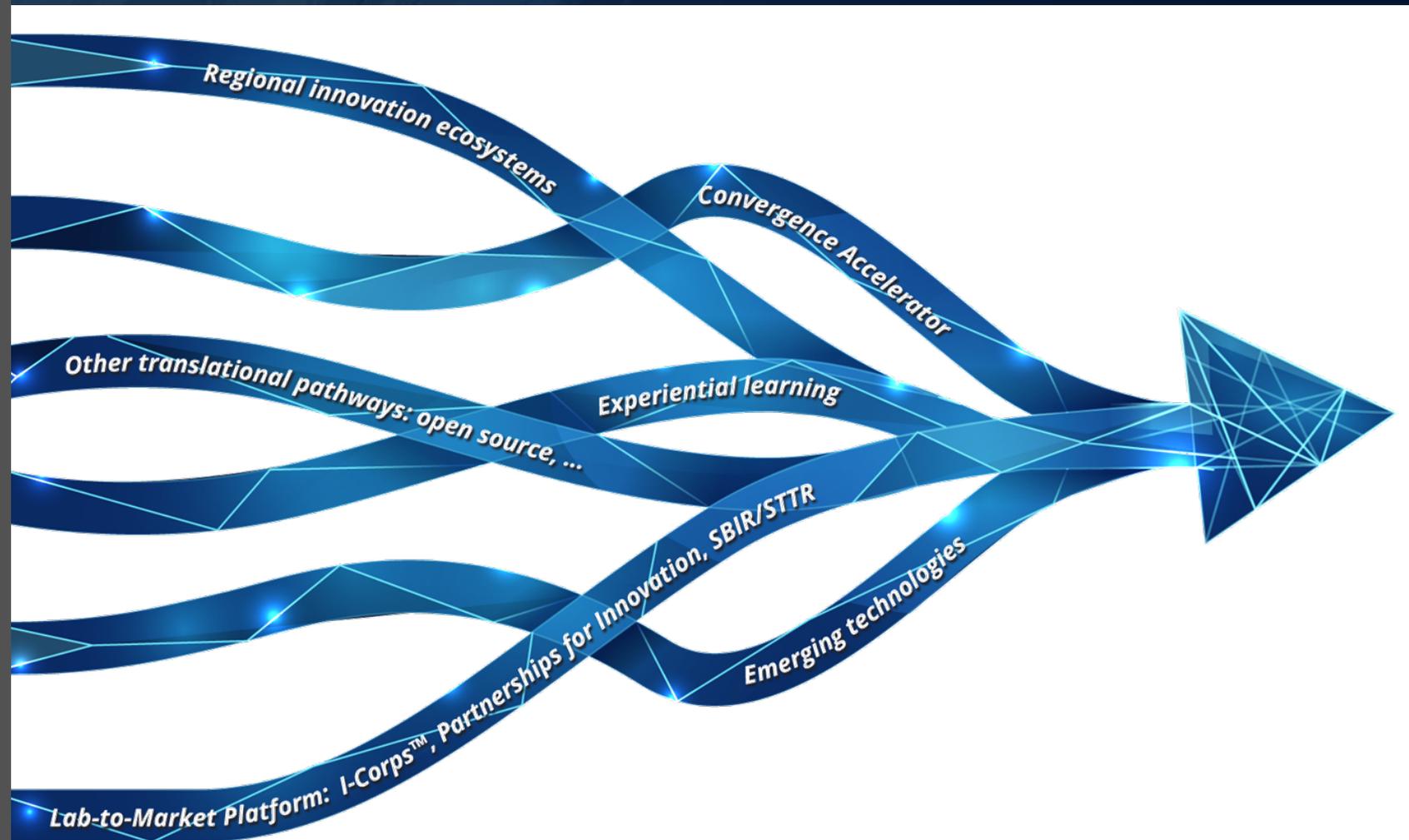
Collaborates with other TIP and NSF units to seed new programs that accelerate advances in key technologies areas.

Fostering Innovation and Technology Ecosystems	Establishing Translation Pathways	Partnering to Engage the Nation's Diverse Talent
Nurtures regional and national innovation and technology ecosystems to support researchers and innovators to converge, develop and accelerate use-inspired research for societal impact.	Supports startups through a lab-to-market platform and establishes new pathways for translating research results for society.	Advances and deepens high-impact, public and private partnerships across all areas of science, engineering and education to cultivate innovation ecosystems, create technology solutions, and support future STEM leaders.



New Directorate for Technology, Innovation & Partnerships (TIP)

TIP harnesses the nation's vast and diverse talent pool to **advance critical** and emerging **technologies**, **address pressing societal** and **economic challenges**, and **accelerate the translation of research results** from lab to market and society. TIP **improves U.S. competitiveness**, **growing the U.S. economy** and **training a diverse workforce** for future, high-wage jobs.



NSF's Commitment to Public Engagement



VI STRATEGIC GOALS AND OBJECTIVES

Strategic Objective 1.2 – Unleash STEM talent for America *(continued)*

Grow a diverse STEM workforce to advance the progress of science and technology.

Informal Education

Informal education is another powerful means to diffuse knowledge, provide learning and instill interest in STEM topics in everyone throughout their lives.

Citizen-engaged science, for example, fosters informal education and involves citizens in a meaningful, gratifying way as it advances science at the same time. NSF invests in research on informal education that is intended to develop more effective approaches to engaging the public and to help citizens develop a better understanding of science and the scientific process.

Indicators of progress towards this objective could include increases in the number and diversity of students, teachers and members of the public who participate in NSF formal and informal education activities.



Thank You!

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