




Charting a Course for Success: America's Strategy For STEM Education

December 4, 2018

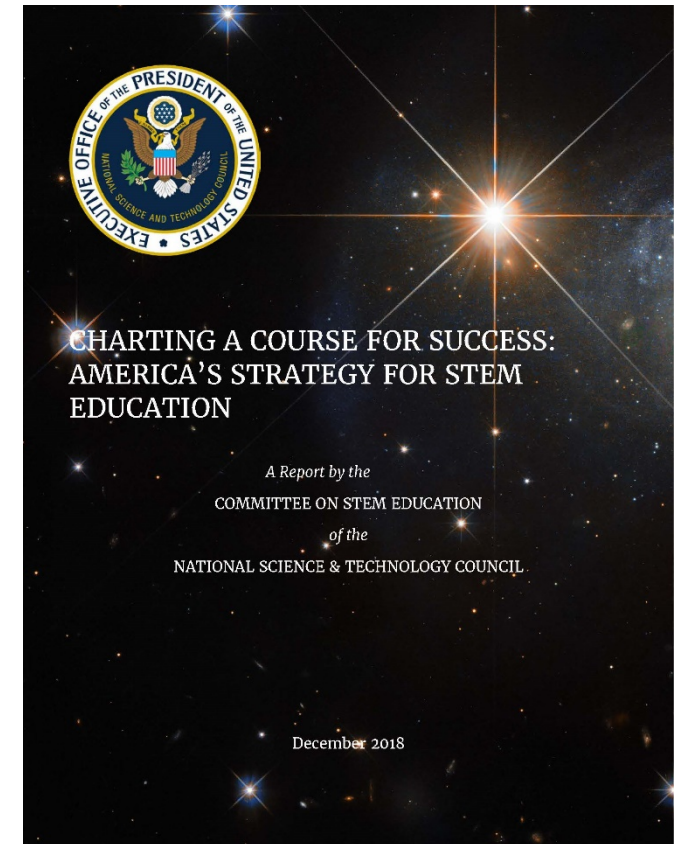
Karen Marrongelle
Assistant Director, Education and Human Resources

- 
- There is a Federal STEM Education Strategic Plan.
 - NSF helped design the Plan.
 - NSF is well-positioned to lead efforts aligned with the Plan.

December 4, 2018

Why a Federal Strategic Plan for STEM Education?

- Basic STEM literacy vital to America's future, **particularly our Nation's future workforce**
- Call for interagency collaboration and for public engagement to achieve goals
- America COMPETES Reauthorization Act (2010) requires a new plan every 5 years



A Strategy Informed by Stakeholder Input



- State-level STEM Education Specialists
- K-12 STEM Educators
- University STEM Faculty
- Non-profit organizations
- Informal science educators

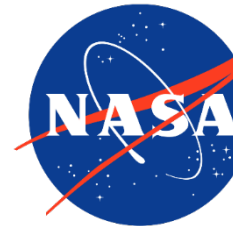
An Interagency Effort



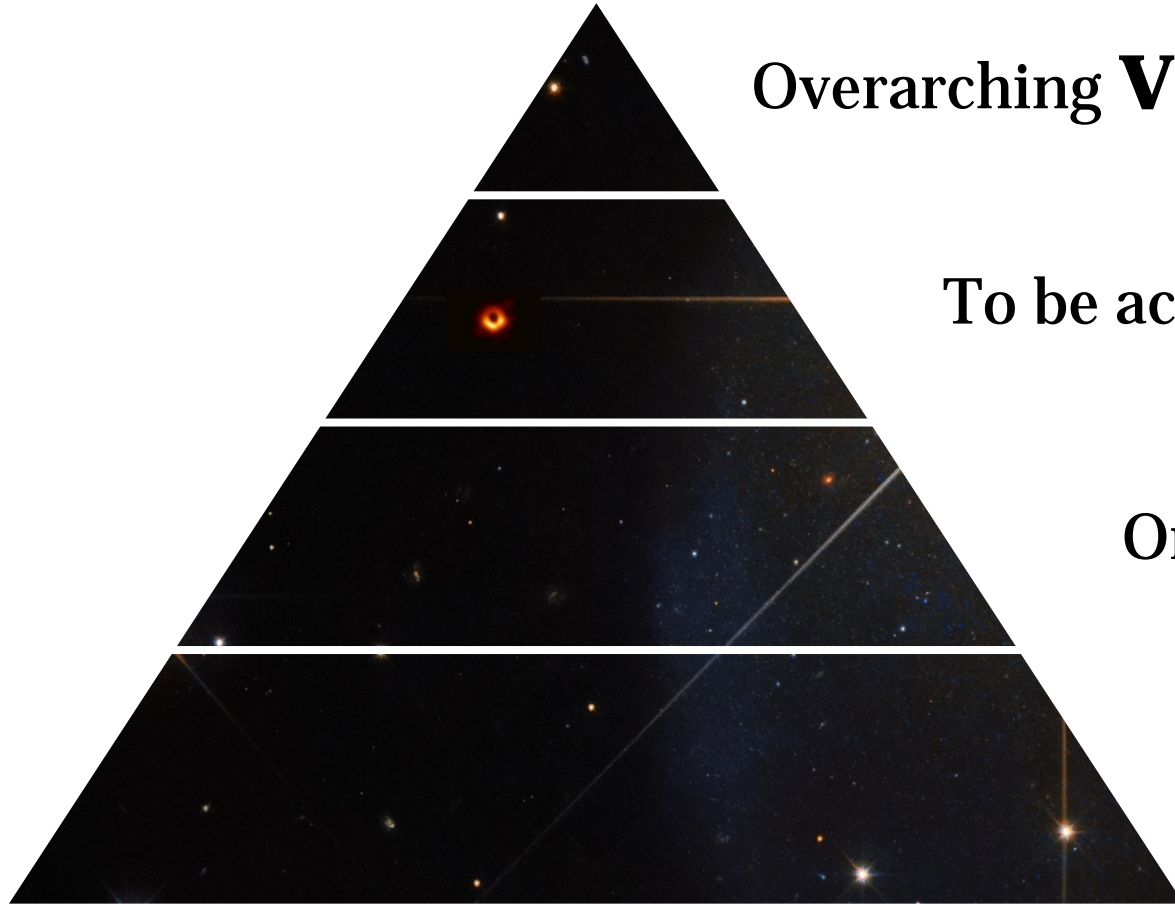
An Interagency Effort



Smithsonian



Strategic Plan Outline



Overarching **Vision** for the future of U.S. STEM education

To be achieved by pursuing 3 aspirational **Goals**

Organized around 4 **Pathways**

Pathways contain specific **Objectives**



Goals of the Strategic Plan

- Build Strong Foundations for **STEM Literacy**
- Increase **Diversity, Equity, and Inclusion** in STEM
- Prepare the **STEM Workforce** for the Future

Goals that align with NSF's mission: To promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense; and for other purposes.



Pathway: Develop and Enrich Strategic Partnerships

Advanced Technological
Education DCL:
International Training
and Education





Build Computational Literacy

Pathway: Build Computational Literacy



CS for All

Pathway: Build Computational Literacy




CS for All

Improving
Undergraduate
STEM Education:
Computing in
Undergraduate
Education

Additional Examples of NSF Activities aligned with the Plan:

- NSF INCLUDES National Network
- NSF Data Science Corps
- NSF INTERN
- NSF-Boeing Partnership



- 
- There is a Federal STEM Education Strategic Plan.
 - NSF helped design the Plan.
 - NSF is well-positioned to lead efforts aligned with the Plan.

December 4, 2018

