

National Science Foundation's Mission

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



NSF 10 Big Ideas

RESEARCH IDEAS



Harnessing Data for 21st Century Science and Engineering

Work at the Human-Technology Frontier: Shaping the Future



Windows on the Universe: Multi-messenger Astrophysics



Quantum Leap: Leading the Next Quantum Revolution



Navigating the New Arctic



Understanding the Rules of Life: Predicting Phenotype



ENABLING IDEAS

Mid-scale Research Infrastructure



NSF 2026

THE NSF 2026 IDEA MACHINE



Growing Convergence Research at NSF



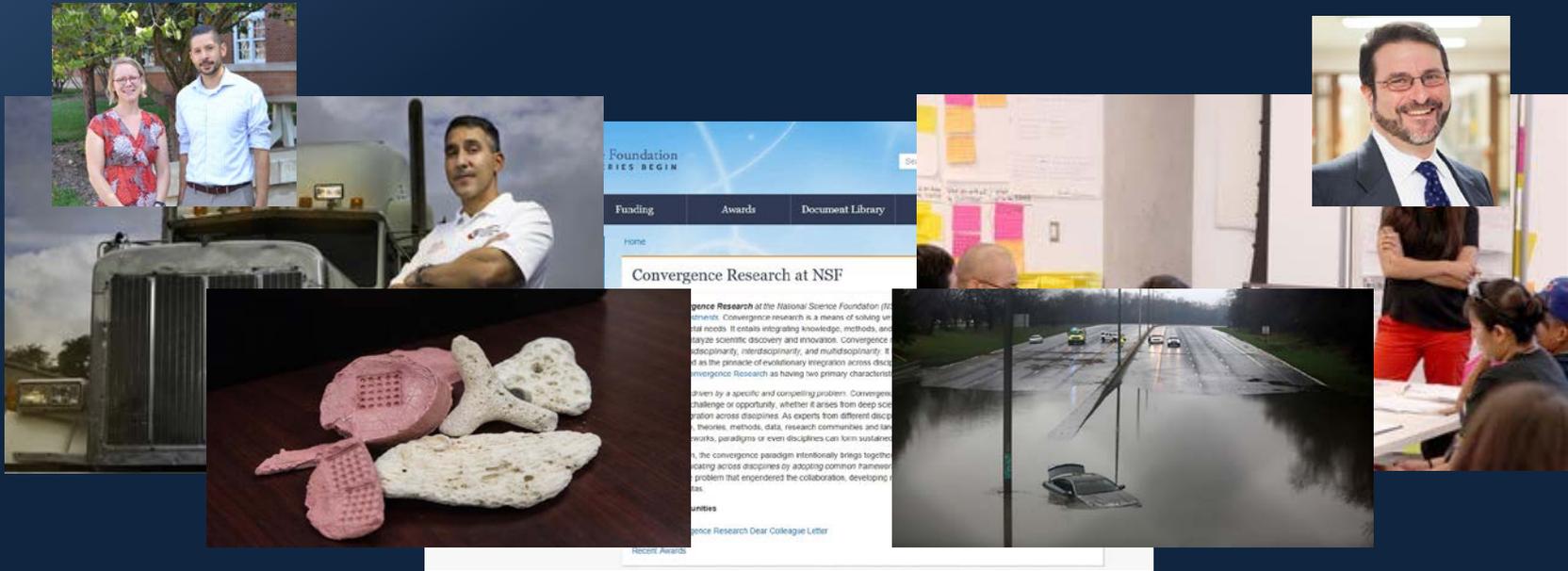
NSF INCLUDES: Enhancing STEM through Diversity and Inclusion

“ ... bold questions that will drive NSF's long-term research agenda -- questions that will ensure future generations continue to reap the benefits of fundamental S&E research. ”



Growing Convergence Research @ NSF

Growing Science, Engineering, and Education Research Projects





- Prize competition: Entrants suggest “grand challenge” questions for future research
- Over 800 entries; 33 videos will be posted for public comment
- A Blue-Ribbon Panel advises NSF
- Best ideas receive public recognition, cash prizes
- <https://youtu.be/aJUdrnHgYYA>

Finding “Big Ideas 2.0”: Identifying new directions for research.

What is a Convergence Accelerator?

A new organizational structure to accelerate the transition of convergence research into practice, in areas of national importance

Characteristics

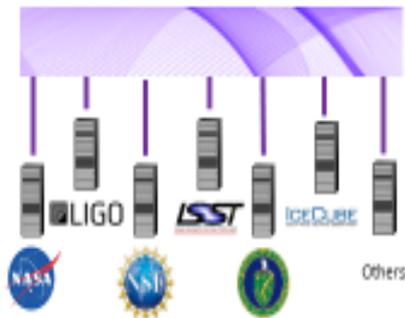
- Use-inspired research (Pasteur's Quadrant)
- Testbeds, tools, living labs...
- Partnerships with industry
- Clear goals, milestones, directed deliverables

Management

- Time-limited "tracks"
- Cohorts
- More directed management
- Mission-driven evaluation

Convergence Accelerator

Open Knowledge Network



Enhancing scientific data discovery and use

AI & Future Jobs



Connecting, retraining and reskilling for jobs using AI

National Talent Ecosystem

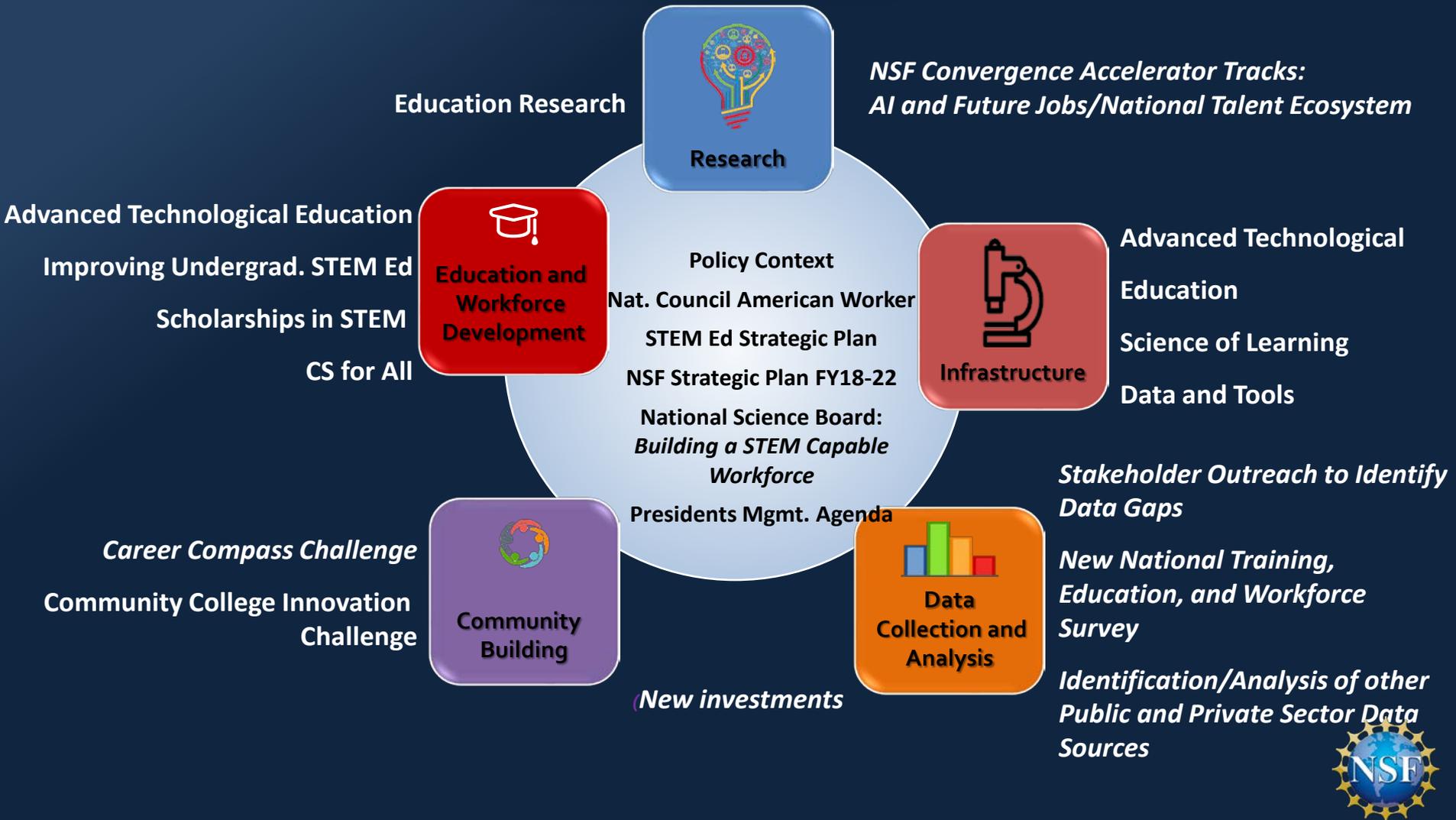


Building talent in a changing workplace

Evolution: Many tracks over multiple years



NSF Investments in Skilled Technical Workforce Development



Thanks!
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