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NSF "Big Research Ideas"



"... 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." F. Córdova, NSF Director



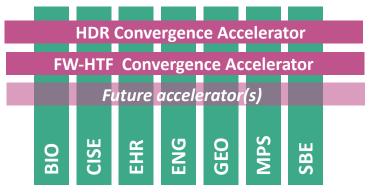
- new in FY19, with foundation set in FY 17, 18
- convergence research
- \$30M/year per Idea, 5-year planning cycle, centrally and collaboratively managed
- process research ideas: NSF INCLUDES, midscale research infrastructure, NSF 2026, growing convergence research

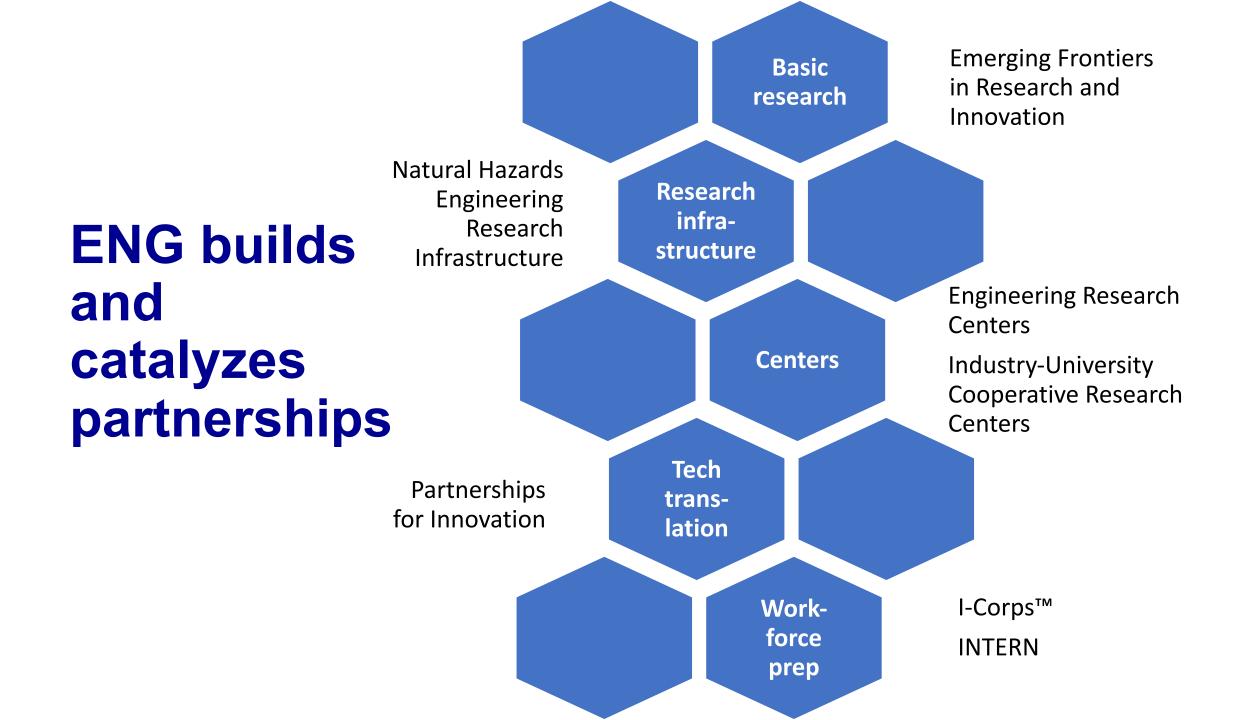
Convergence Accelerators

Accelerating Discovery through Convergence Research

- time-limited entities: accelerating impactful convergence research in areas of national importance
- separate from directorates in leadership, budget, and programmatics (but relying on, and building on foundational disciplinary research)
- emphasis on translational research, partnerships
- projects with clear goals, milestones, directed deliverables (e.g., 6-months)
- more intentional, more directed management
- mission-driven evaluation

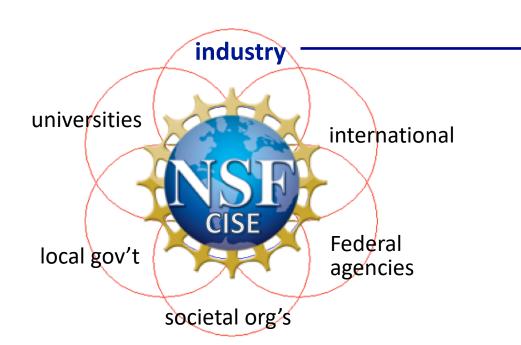


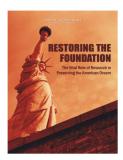




CISE Partnerships: Many dimensions

Partnerships **build capacity**, **leverage resources**, **increase the speed of translation** from discovery to innovation





Prescription 3: Establishing a More Robust National Government-University-Industry Research Partnership

Joint NSF/industry research

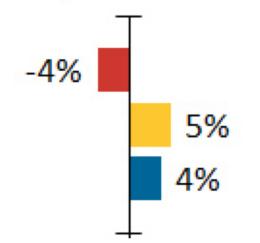
solicitations: Intel (5), SRC (8), VMware (2), PAI(1)

- Research infrastructure: PAWR: Platforms for Advanced Wireless Research, cloud credit for BIGDATA, (AWS, Google, Microsoft, IBM)
- Individual project-based:
 I/UCRC, Intrans, GOALI

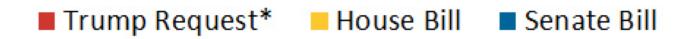
2019 Budget Process: underway

FY19 Spending Proposals: National Science Foundation

% change from FY18 enacted \$ in () are the FY18 amounts



- NSF currently operating under a Continuing Resolution (CR) until Dec. 7, 2018
 - NASA, NOAA, NIST also on CR
 - DOD, DOE, NIH have FY19 budgets



Source: https://www.aip.org/fyi/



.... to our CISE and ENG CPS teams
.... to our AAAS Fellows
.... to our agency partners
.... to the Program Committee
.... to the CPS VO