



Interdisciplinary Research Opportunities in the Social, Behavioral and Economic Sciences

EPSCoR Project Directors and Project
Administrators Meeting

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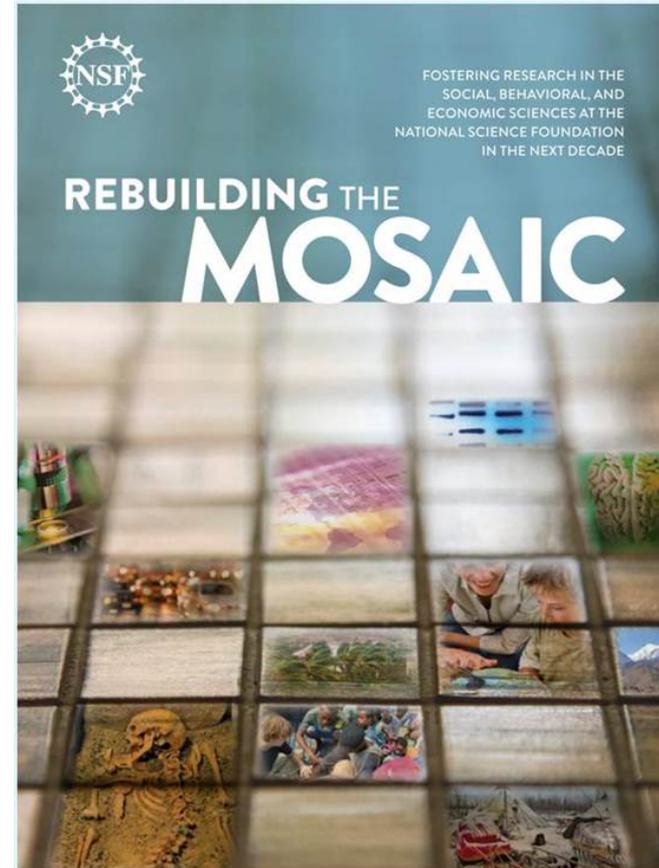
SBE's Mission

- ▶ Promote the understanding of people and their lives
- ▶ Ensure that basic research and solutions to problems build upon the best multidisciplinary science
- ▶ Provide mission-critical statistical information about science and engineering in the U.S. and the world



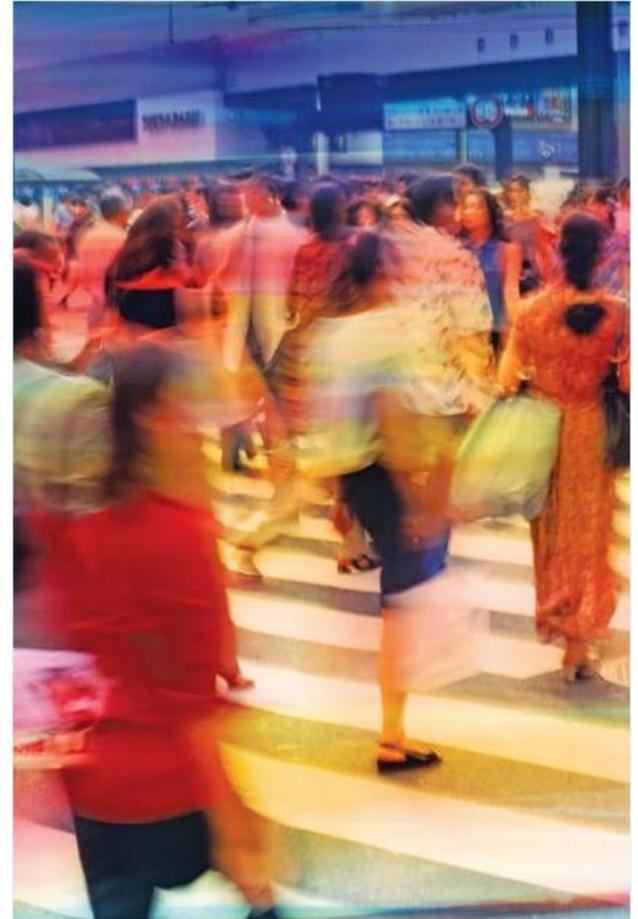
Setting Research Priorities

- ▶ Rebuilding the Mosaic: Modified crowdsourcing activity about the future of the SBE sciences
- ▶ Future research will be interdisciplinary, data-intensive and collaborative

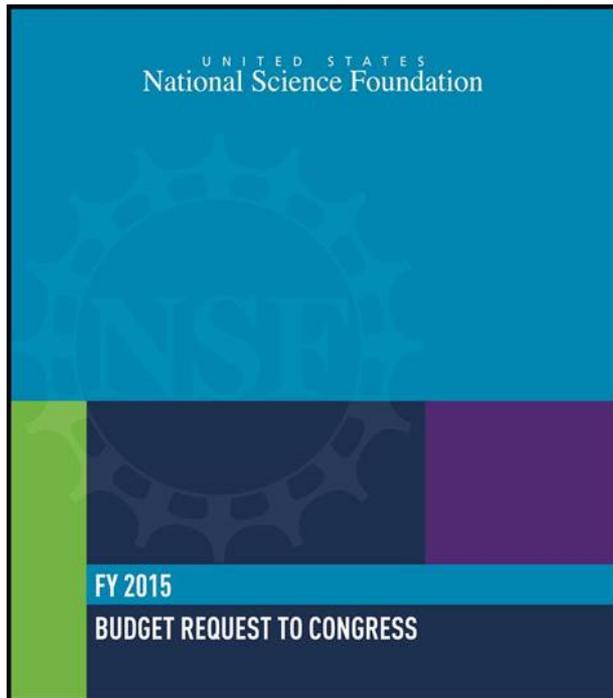


Cross-cutting Research Areas

- ▶ Population change: family, migration, aging
- ▶ Disparities: health, gender, race and ethnicity, education and more
- ▶ Communication, language, brain, behavior
- ▶ New technology, social media and social networks



SBE FY 2015 Budget Priorities



- ▶ Enhance investments that advance fundamental knowledge in SBE sciences
- ▶ Strengthen understanding of the S&E enterprise through enhanced NCSES data collection and analysis
- ▶ Support interdisciplinary research and training, and the emerging investment in Science of Learning
- ▶ Integrate SBE sciences in NSF priority investments



Cognitive Science and Neuroscience



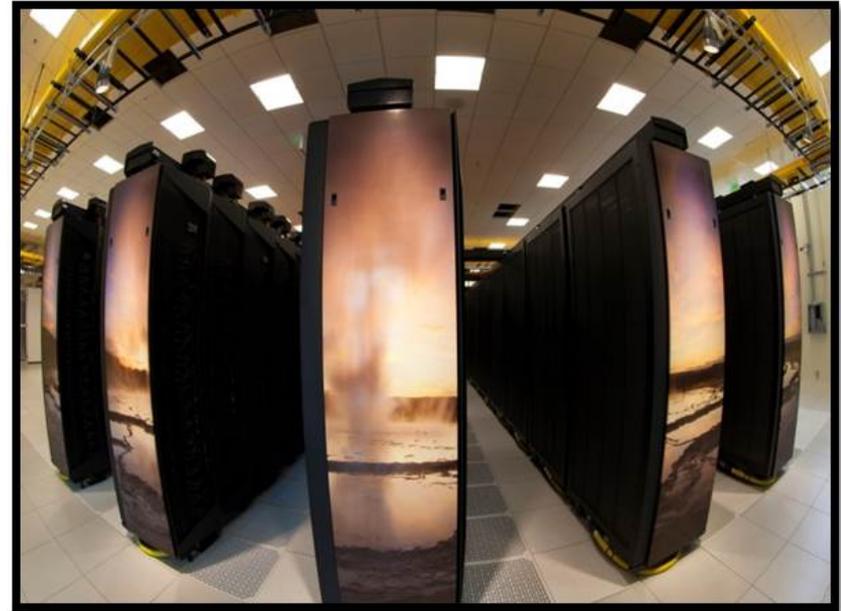
Enable scientific understanding of the full complexity of the brain at multiple scales (molecular through behavioral)

Support research relevant to the BRAIN initiative



Cyberinfrastructure Framework for 21st Century Science and Engineering

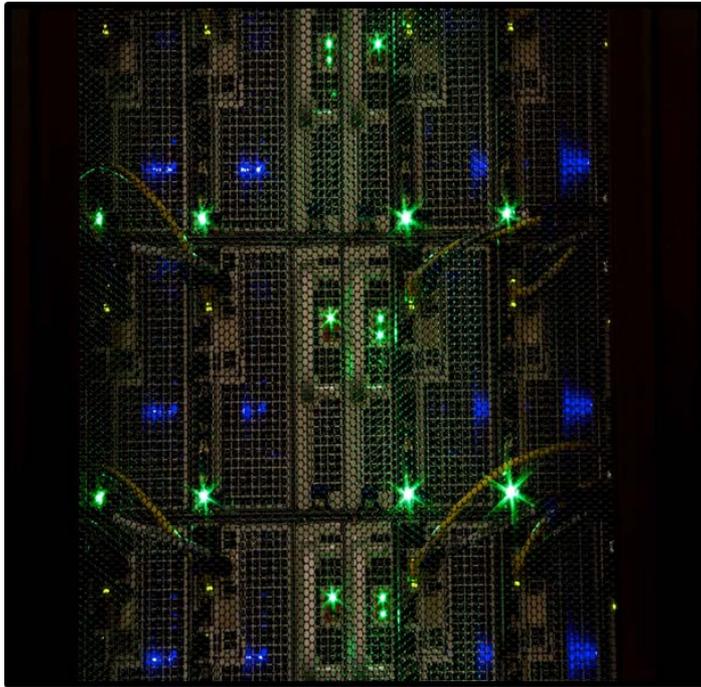
CIF21: Transform scientific discovery to solve complex scientific problems, and understand human behavior in a 21st century networked society



- ▶ Critical Techniques and Technologies for Advancing Big Data Science & Engineering (BIGDATA)
- ▶ Building Community and Capacity for Data Intensive Research



Secure and Trustworthy Cyberspace



- ▶ SaTC: Build a knowledge base in cybersecurity that enables discovery, learning, and innovation, and ultimately leads to a more secure and trustworthy cyberspace
- ▶ Partnership with CISE, EHR, ENG, MPS



Sustainability

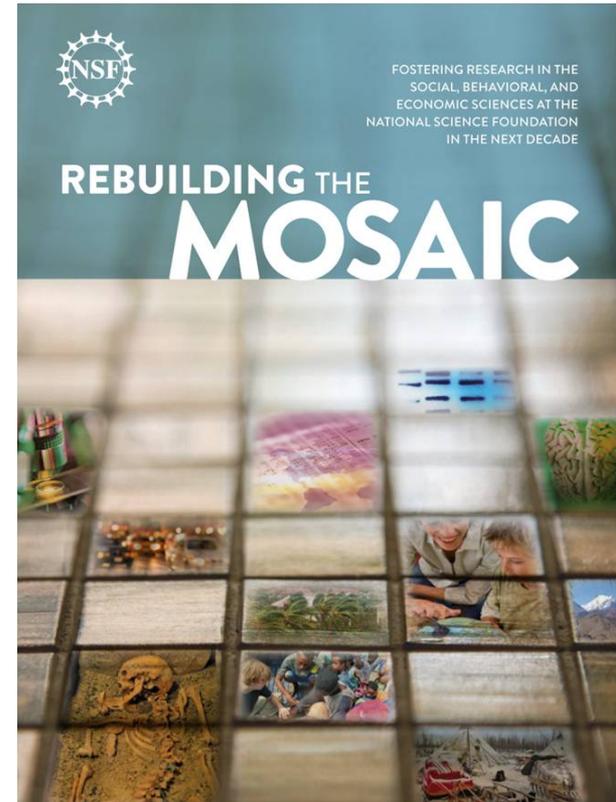


- ▶ Science, Engineering and Education for Sustainability (SEES)
- ▶ Dynamics of Coupled Natural and Human Systems
- ▶ Decision Making Under Uncertainty



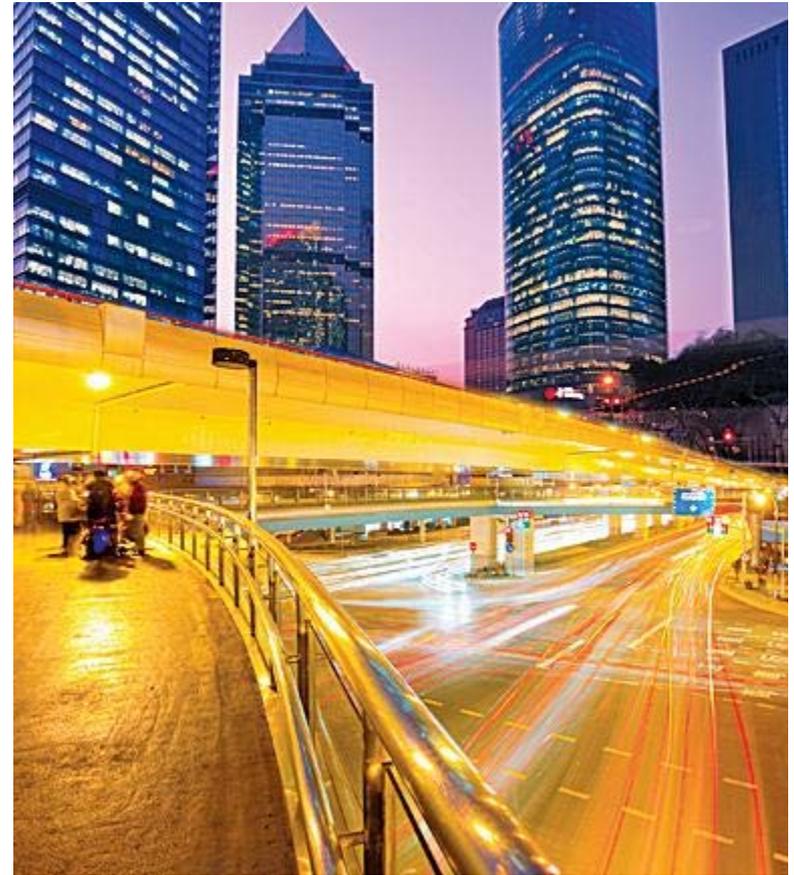
SBE Interdisciplinary Solicitations

- ▶ Interdisciplinary Behavioral and Social Science Research
- ▶ SBE Postdoctoral Research Fellowships
 - Broadening Participation
 - Interdisciplinary Behavioral and Social Science Research



Data Infrastructure

- ▶ CIF21
Solicitations
- ▶ Support for
major surveys



Funding Opportunities in SBE

- ▶ Unsolicited proposals to standing programs (disciplinary and interdisciplinary)
- ▶ Special solicitations (disciplinary and interdisciplinary)
- ▶ Dear Colleague Letters



Dear Colleague Letters

- ▶ NSF–Wide
 - Forensic Science
- ▶ Cross–Directorate:
 - Privacy in Today’s Networked World
 - Computational Cognition
 - Science of Broadening Participation
- ▶ SBE–wide:
 - Youth Violence
- ▶ Program–specific:
 - Use and Functioning of the Civil Justice System
 - Assessing the Impacts of Recent and On–going Changes in Federal Science Policy





Where discoveries begin

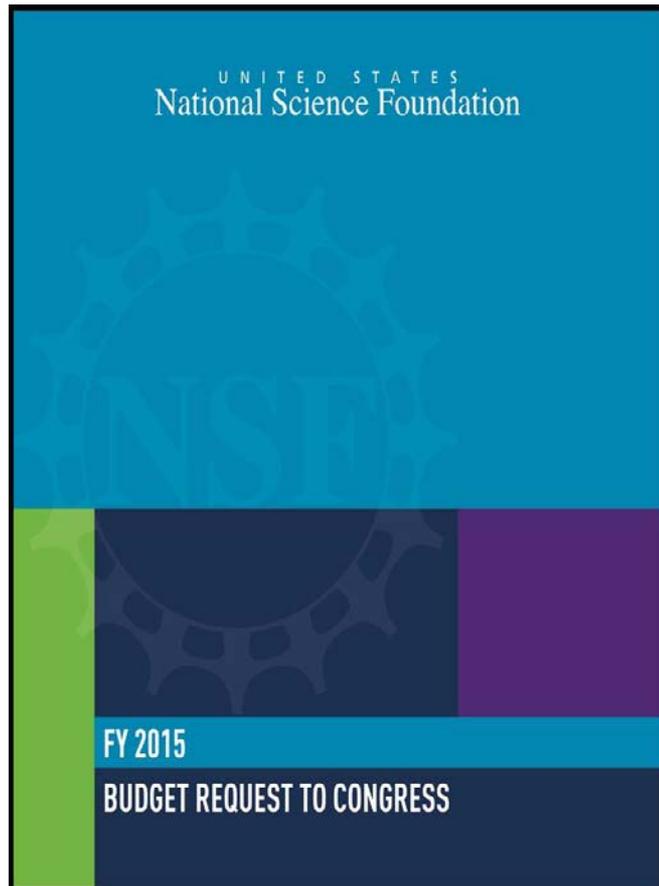


How NSF Communicates Funding Opportunities

- ▶ NSF Budget Requests
- ▶ Solicitations
- ▶ Dear Colleague Letters
- ▶ Directorate/Division/Program Web Pages



NSF's Major Investments (FY 2015)

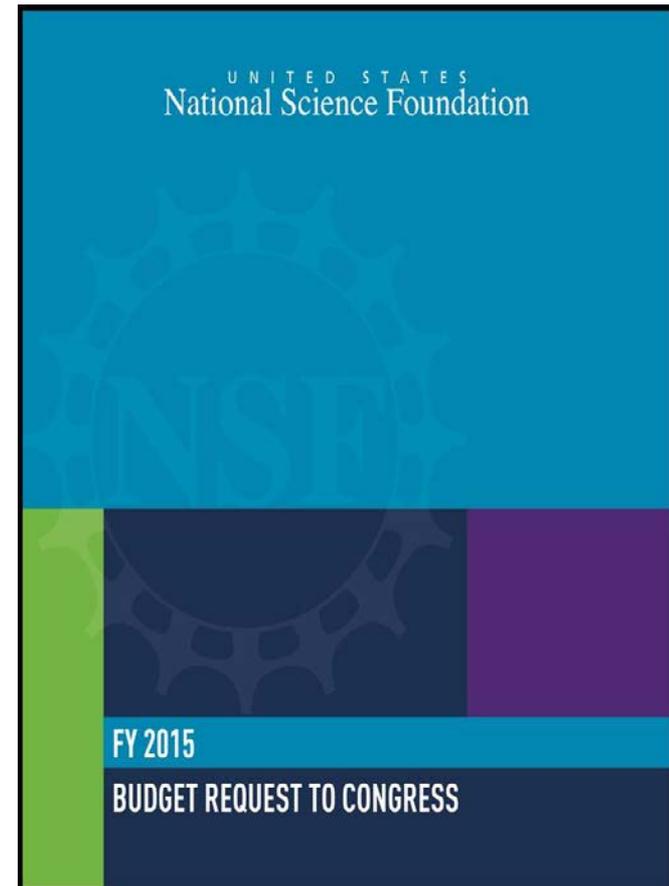


- ▶ Cognitive Science and Neuroscience
- ▶ Cyber-Enabled Materials, Manufacturing and Smart Systems
- ▶ Cyberinfrastructure Framework for 21st Century Science and Engineering
- ▶ Science, Engineering and Education for Sustainability
- ▶ Secure and Trustworthy Cyberspace



NSF's Major Investments (FY 2015)

- ▶ Advanced Manufacturing
- ▶ Clean Energy
- ▶ I-Corps
- ▶ National Robotics Initiative
- ▶ Research at the Interface of the Biological, Mathematical and Physical Sciences
- ▶ STEM Education



FY 2015 Major Investments and SBE

- ▶ Cognitive Science and Neuroscience
- ▶ Cyberinfrastructure Framework for 21st Century Science and Engineering
- ▶ Critical Resilient Interdependent Infrastructure and Systems
- ▶ Secure and Trustworthy Cyberspace
- ▶ Science, Engineering and Education for Sustainability
- ▶ Science of Learning
- ▶ Cyberlearning and Future Learning Technologies
- ▶ NSF Research Traineeship



BCS Standing Programs

- ▶ Archaeology and Archaeometry
- ▶ Biological Anthropology
- ▶ Cognitive Neuroscience
- ▶ Cultural Anthropology
- ▶ Developmental and Learning Sciences
- ▶ Documenting Endangered Languages
- ▶ Geography and Spatial Sciences
- ▶ Linguistics
- ▶ Perception, Action, and Cognition
- ▶ Social Psychology



SES Standing Programs

- ▶ Decision, Risk and Management Sciences
- ▶ Economics
- ▶ Law & Social Sciences
- ▶ Methodology, Measurement and Statistics
- ▶ Political Science
- ▶ Science of Organizations
- ▶ Science, Technology and Society
- ▶ Sociology



NCSES

- ▶ Nation's primary source of data and analysis on the science and engineering enterprise
- ▶ Designs, supports and directs about 11 periodic surveys, other data collections and research projects
- ▶ 30 publications yearly
- ▶ Congressionally-mandated publications:
 - Science and Engineering Indicators
 - Women, Minorities and Persons with Disabilities in Science and Engineering



SMA

- ▶ Coordinating SBE's participation in NSF-wide and crosscutting activities, including:
 - Interdisciplinary Behavioral and Social Science Research (IBSS)
 - SBE Postdoctoral Research Fellowships (SPRF)
 - SBE Research Experiences for Undergraduate Sites (SBE REU Sites)
 - Science of Learning Centers (SLC)
 - Science of Science and Innovation Policy (SciSIP)

