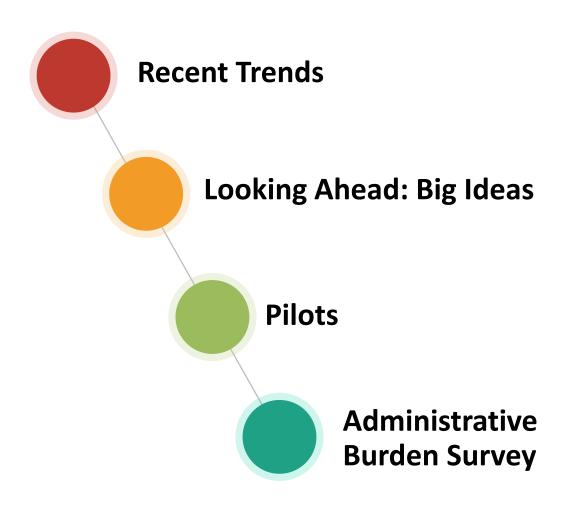


# Richard Buckius Chief Operating Officer, National Science Foundation

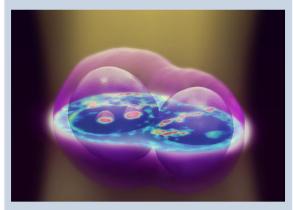
Federal Demonstration Partnership January 9, 2017

## **Topics**



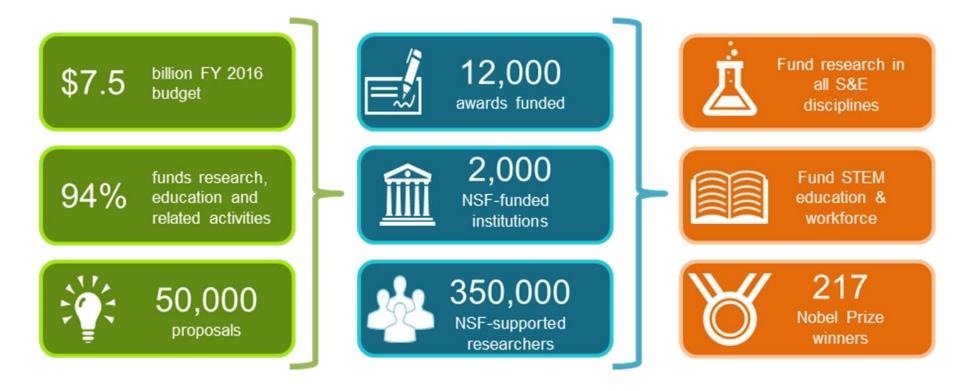






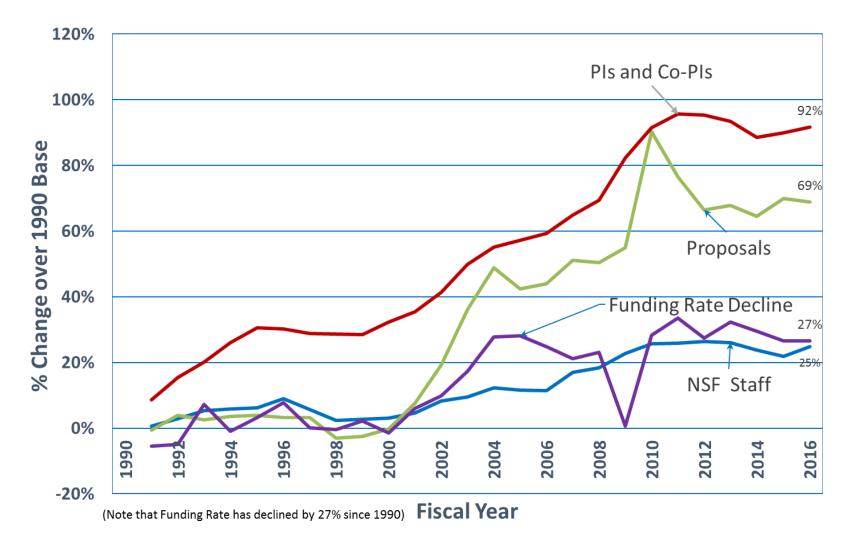


#### NSF by the Numbers





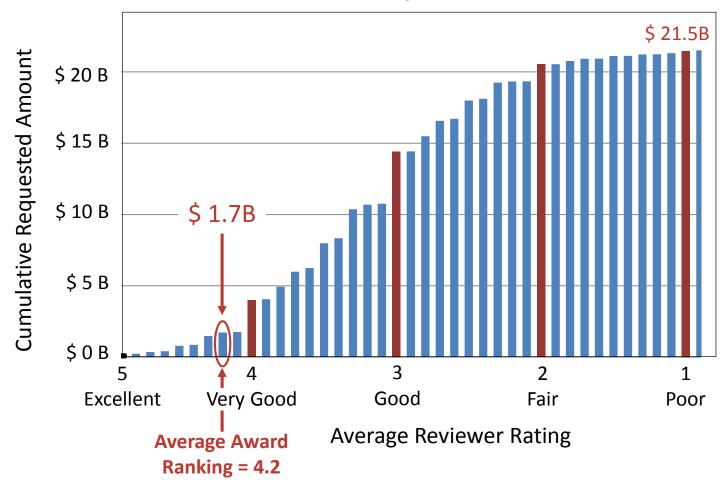
#### **NSF Trends**





#### **Unfunded Quality**

#### Declined Proposals FY 2015







#### **RESEARCH IDEAS**



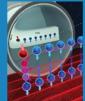
Harnessing Data for 21<sup>st</sup> Century Science and Engineering Work at the Human-Technology Frontier: Shaping the Future



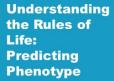
Navigating the New Arctic Windows on the Universe: The Era of Multimessenger Astrophysics







The Quantum
Leap:
Leading the
Next Quantum
Revolution





#### PROCESS IDEAS

Mid-scale Research Infrastructure



Growing Convergent

Research at NSF







NSF INCLUDES: Enhancing Science and Engineering through Diversity





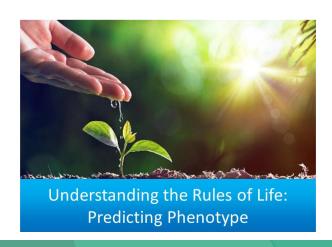
## Pushing the Boundaries of Knowledge

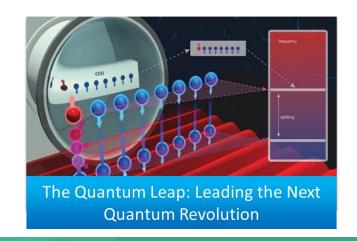






Windows on the Universe: The Era of Multi-messenger Astrophysics









## Seizing New Opportunities











## Identifying and Closing Gaps















#### **INCLUDES**

#### **Broadening Participation in Science and Engineering**

#### NSF INCLUDES timeline

**Develop** 

**Implement** 

**Expand** 

2016

2017

2018 - 2021





#### **Proposal Pilots**

- Virtual Panels
  - NSF-Wide
- Preliminary Proposals for Core Programs
  - BIO/DEB
  - BIO/IOS
- One-Plus
  - SBE/BCS Geography & Spatial Science
- Asynchronous Reviewer Discussions
  - CISE/CNS
  - MPS/PHY





#### **Proposal Pilots**

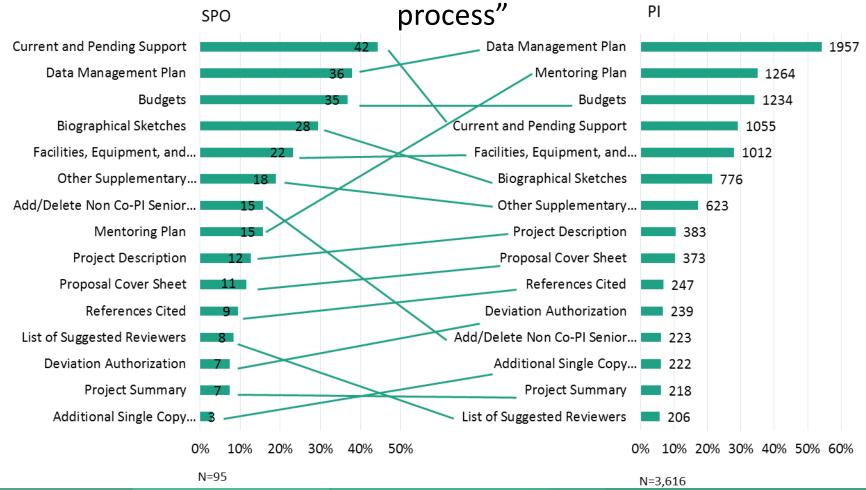
- Mechanism Design
  - ENG/CMMI Sensors & Sensing Systems
- Program Deadline Elimination
  - GEO/EAR Instrumentation & Facilities
- Electronic Polling
  - MPS/AST
- College of Reviewers
  - SBE/BCS Perception, Action & Cognition





#### Administrative Burden Survey

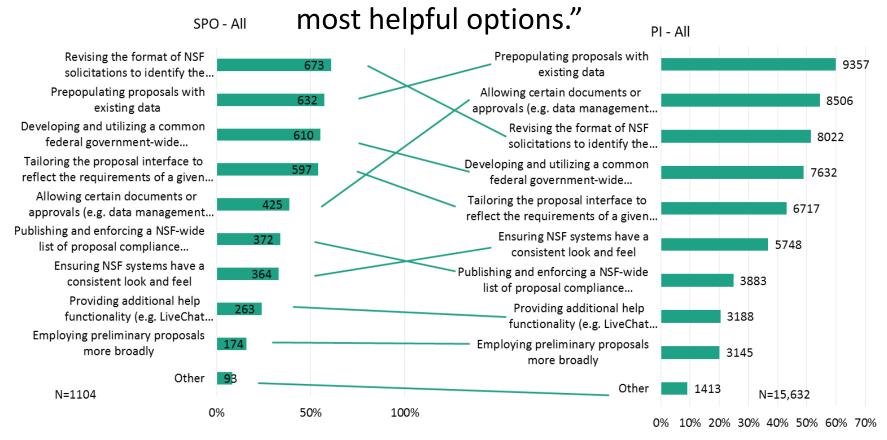
"Select up to three **proposal sections** that place an unreasonable administrative burden on you during the proposal preparation





#### Administrative Burden Survey

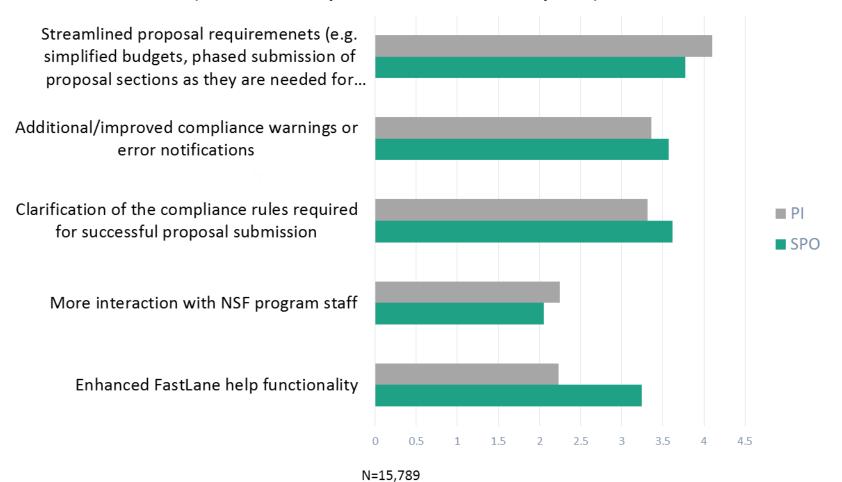
"In general, how helpful or unhelpful would the following efforts be in reducing the administrative burden that you experience when preparing and submitting NSF proposals? Please select up to top five





### Administrative Burden Survey

"Rank potential efforts to **assist** in submitting compliant proposal?" (1=less helpful, 5=more helpful)"





## **Survey Summary**

- Data Management Plan, Budget, Mentoring Plan, and Current and Pending Support were cited as greatest unreasonable burden.
- Data pre-population, Just-In-Time proposal section submission, and revisions of the solicitations format were cited as most helpful.
- Most helpful in submitting complaint proposals
  - Streamline Proposal Requirements (e.g., simplified budgets, phased submission of sections, standardized solicitation format, etc.)
  - Additional/improved compliance waring or error notification
  - Clarification of the compliance rules required for successful proposal submission
  - More interaction with NSF program staff
  - Enhanced FastLane help functionality

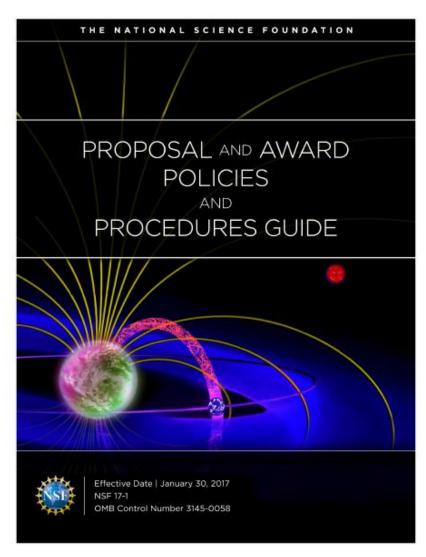


### PAPPG Implementation

Published: October 25, 2016

Effective: January 30, 2017







#### Proposal Submission Modernization

 PSM is a multi-year initiative to modernize the proposal submission capabilities currently in FastLane and implement new capabilities in Research.gov.

#### Goals

- Enhance NSF proposal preparation and submission processes.
- Reduce administrative burden on Pls, organizations and NSF staff.
- Increase likelihood of proposal acceptance upon successful proposal submission in FastLane.

#### **Approach**

- Clarify policies and procedures in PAPPG.
- Standardize proposal formats.
- Further automate compliance checking.
- Reduce programmatic review to a minimum set of essential elements



## Automated Proposal Compliance Checking

- NSF continues to invest in auto-compliance checking capabilities to reduce administrative burden levels on both the research community and NSF programs.
- Core PAPPG proposal section, page count, budget, and deadline requirements are checked during proposal preparation and submission activities in FastLane.
- The next release of auto-compliance checks will support additional standard proposal type requirements and include checks for new types of proposals.
- A complete listing of current FastLane checks is available at:

http://www.nsf.gov/bfa/dias/policy/autocheck/compliance checks\_july16.pdf



## **Questions?**



