

The Grants Process at the National Science Foundation

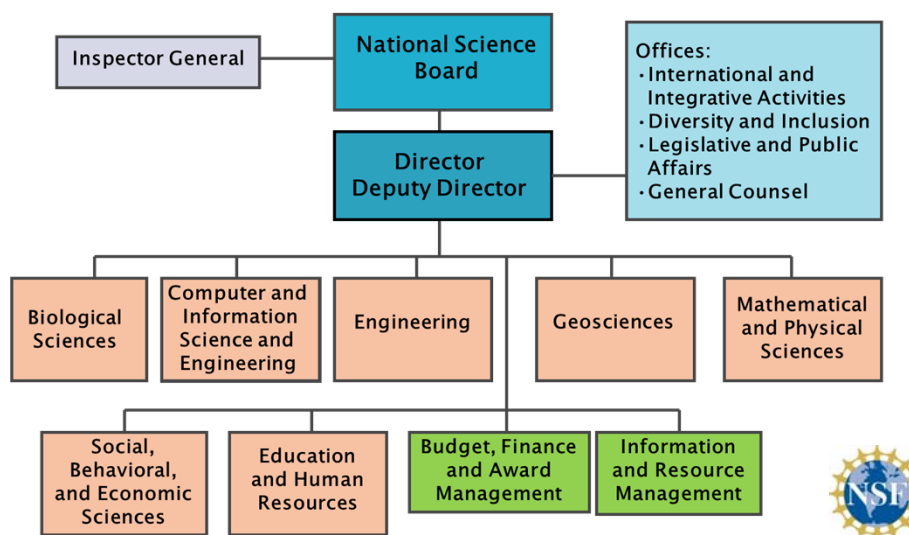


For the NIH
Scientific
Management
Review Board

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Deputy Assistant Director

NSF Mission: To promote the progress of science; to advance the National health, prosperity, and welfare; to secure the National defense, and for other purposes.



NSF by the Numbers (FY 2013)

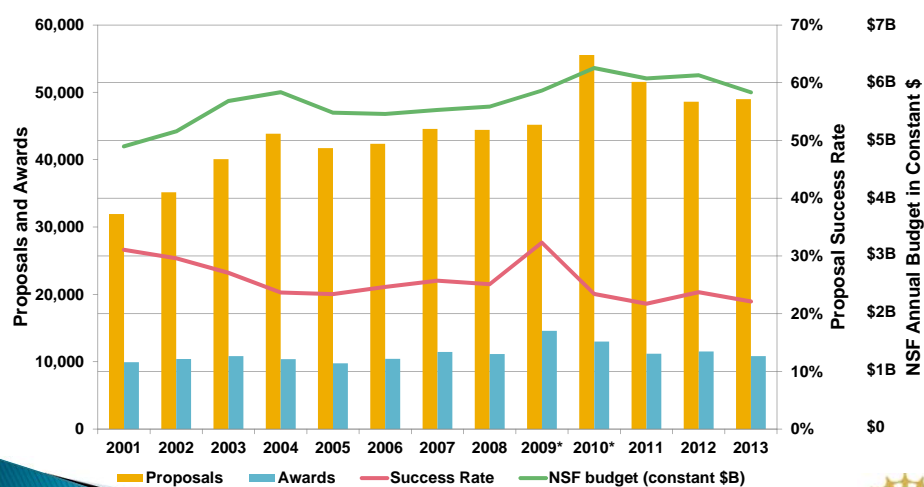
- ▶ \$6.9 billion annual budget (after sequester)
- ▶ 48,999 proposals
- ▶ 10,829 new awards
- ▶ Provides 22% of federal support for basic S&E research
- ▶ 22% funding rate
- ▶ 36,475 reviewers

NSF's Merit Review Process FY 2013

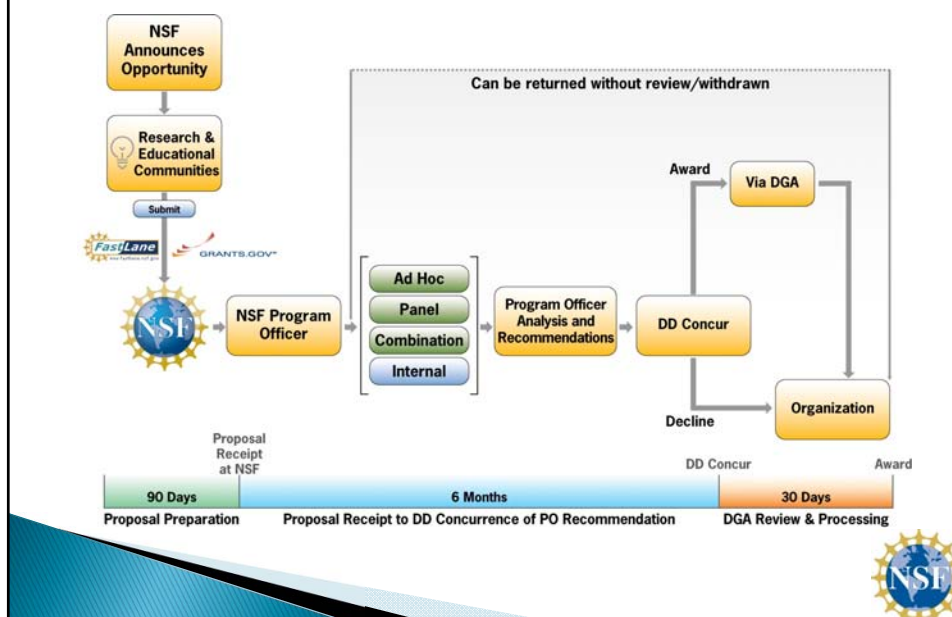
<http://nsf.gov/pubs/2014/nsb1432/nsb1432.pdf>



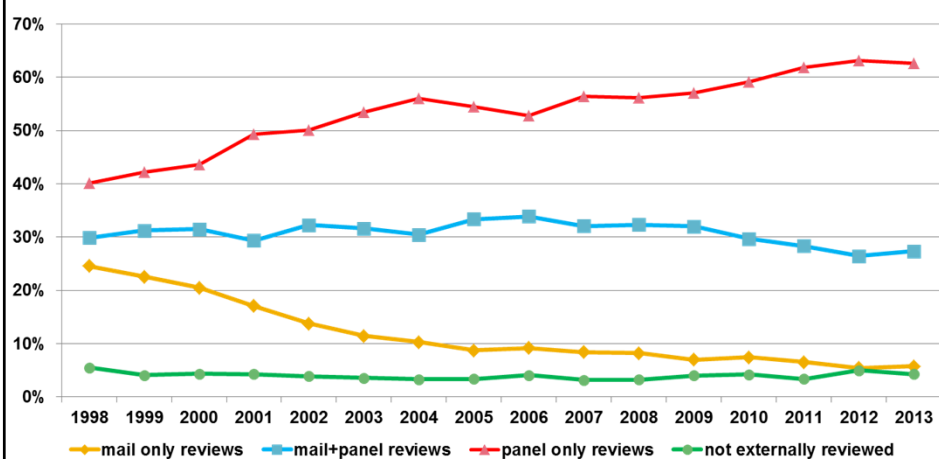
NSF Proposals, Awards and Funding Rates



NSF Proposal & Award Process Timeline



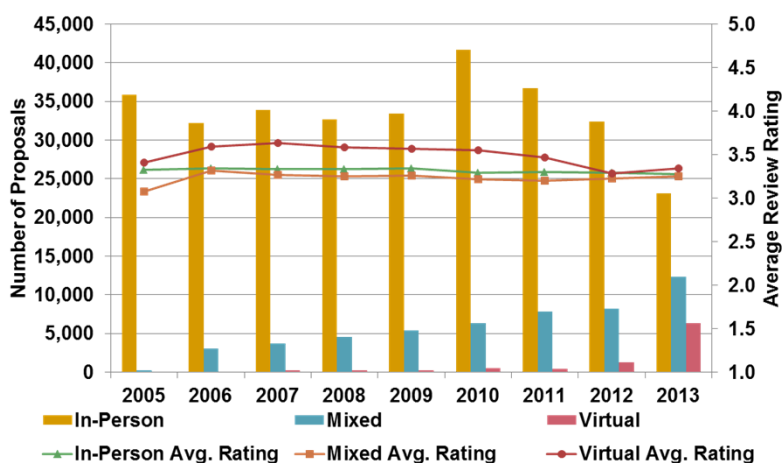
Review Methods



Merit Review Pilots

Pilot	Nature of pilot
Virtual Panels	Expanded use of review panels in which all panelists participate electronically from distributed locations
Asynchronous Reviewer Discussions	Access-controlled moderated message board, open to reviewers over a specified period, to enable the sharing of comments and discussion of a set of proposals.
Mechanism Design	Game theory techniques are used to allow investigators who submit proposals to take part in the review process.
Preliminary Proposals for Core Programs	Core programs move from semi-annual deadlines for full proposals to an annual deadline for preliminary proposals.
One-Plus	Investigators with promising but unfunded proposals may revise and resubmit their ideas for possible funding in the second half of the annual funding cycle by invitation only
Elimination of Program Deadline	A core program that has traditionally had two proposal deadlines per year switched to accepting proposals at any time to see if proposal pressure would be affected.
Umbrella-Amendment Solicitation	Flexible solicitation mechanism for community infrastructure accommodates both long-term goals and changing community requirements.

Usage of and Proposal Rating by Panel Review Type



Percentage of Proposals Processed within 6 Months

FY04	FY05	FY06	FY07	FY08	FY09*	FY10	FY11	FY12	FY13
77%	76%	78%	77%	78%	61%	75%	78%	78%	76%



9

Potential Bottlenecks (1)

- ▶ Identifying reviewers
- ▶ Additional review steps for larger or specific types of proposals:
 - Site visits
 - Review by Director's Review Board
 - Review by the National Science Board



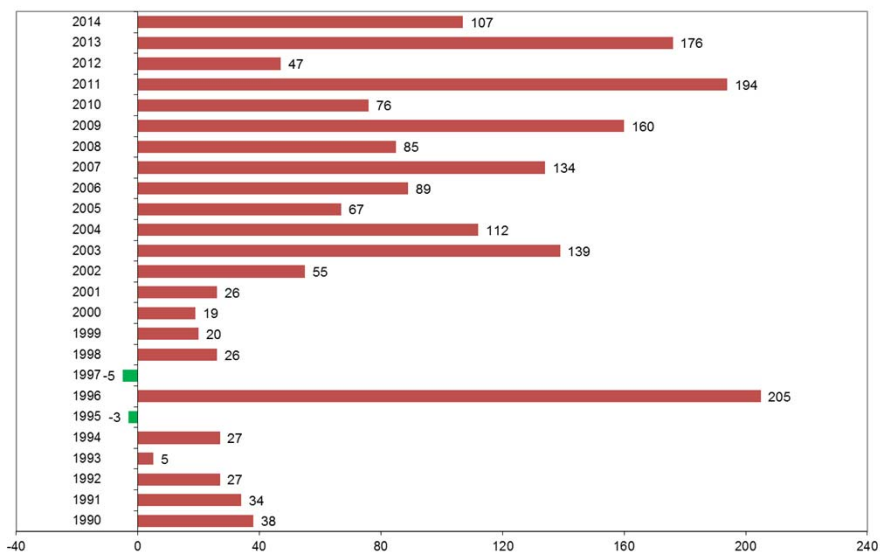
Potential Bottlenecks (2)

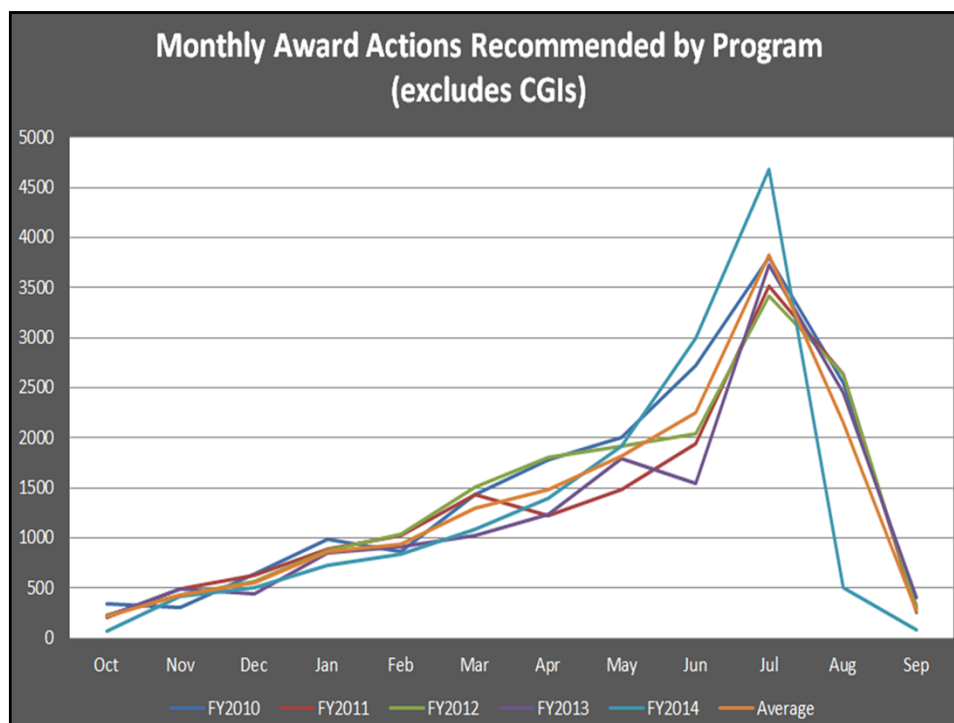
- ▶ Ensuring appropriate documentation
 - Animal Care and Use
 - Human Subjects Protections
 - Environmental Protections
 - New institutional awardees
- ▶ Volume of work
- ▶ Uncertainty of funds



Appropriations Drift: 1990 to 2014

NSF Appropriations Dates vs Start of FY





Where discoveries begin



Exhibit I-1
Flowchart of the Proposal & Award Process
*(*Letters of Intent and Preliminary Proposals are processed as described in Chapter III)*

