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The NSF Act



Vannevar Bush: Author of "Science: The Endless Frontier" in 1945, which was a blueprint for a new national agency dedicated to funding basic science



NSF continues to be the only federal agency dedicated to the support of basic science and education in all scientific and engineering disciplines.



Today, NSF funds basic science with a budget of about \$7B.

Funds support research at universities around the U.S. plus research centers like the National Center for Atmospheric Research (NCAR).



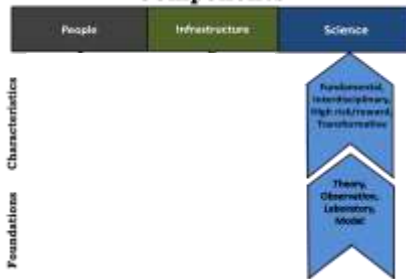
A strategic context for the support of basic research

Components



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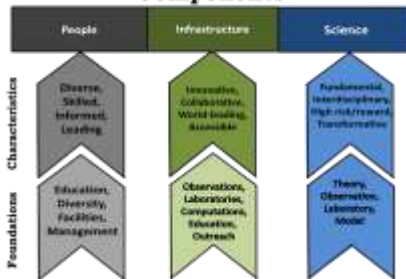
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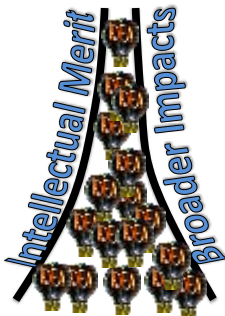




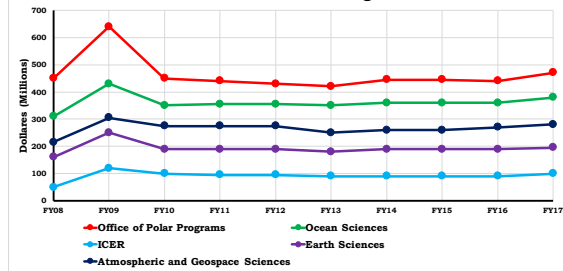
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Approach:

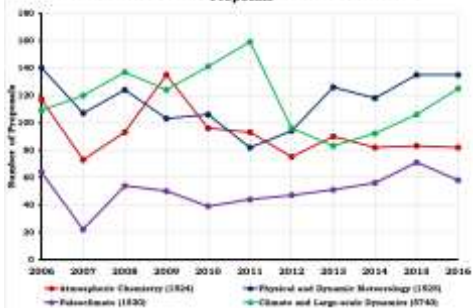
- Strong, overall support for basic research and the knowledge it generates
 - Community driven
 - Merit reviewed
- Align most promising scientific advances with national needs
 - Prediction and resilience to extreme events (PREVENTS)
 - Innovations at the nexus of food, energy, and water systems (INFEWS)
 - Understanding the brain
 - Quantum computing



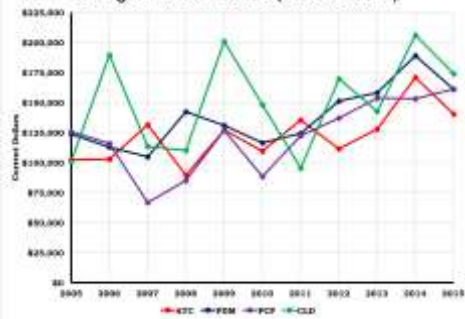
Geosciences: Division Funding Profiles



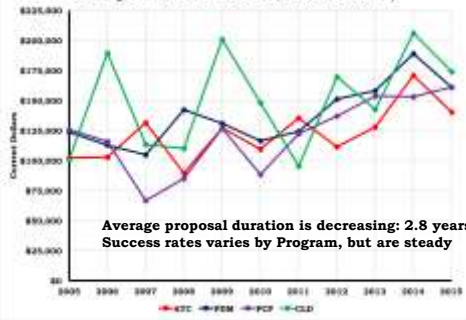
Atmosphere Section: Number of Competitive Research Proposals



Average Annual Award Size (Current Dollars)



Average Annual Award Size (Current Dollars)

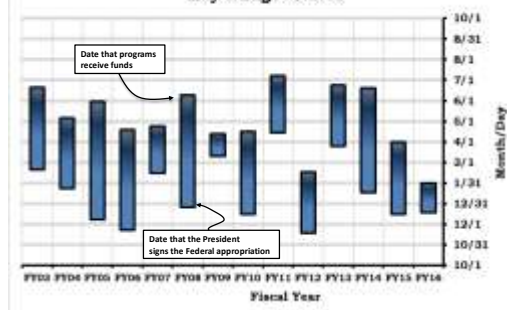


Average proposal duration is decreasing: 2.8 years
Success rates varies by Program, but are steady



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Key Budget Dates





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SimRadar: A polarimetric radar time-series simulator for tornado debris studies



"An improved understanding of what weather radars tell us about tornado debris can help provide more accurate tornado warnings and quickly direct emergency personnel to affected areas."



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