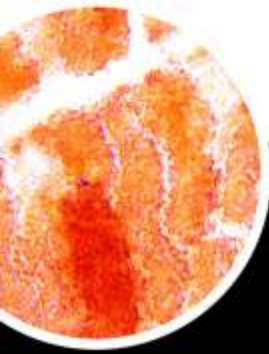




Dr. Gilda Barabino
President, Olin College of Engineering
AAAS Chair of the Board

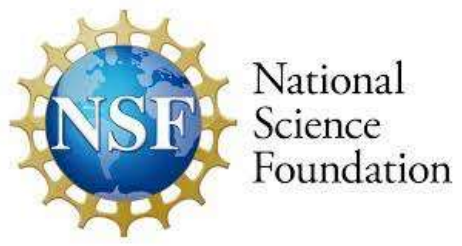
20 March 2023







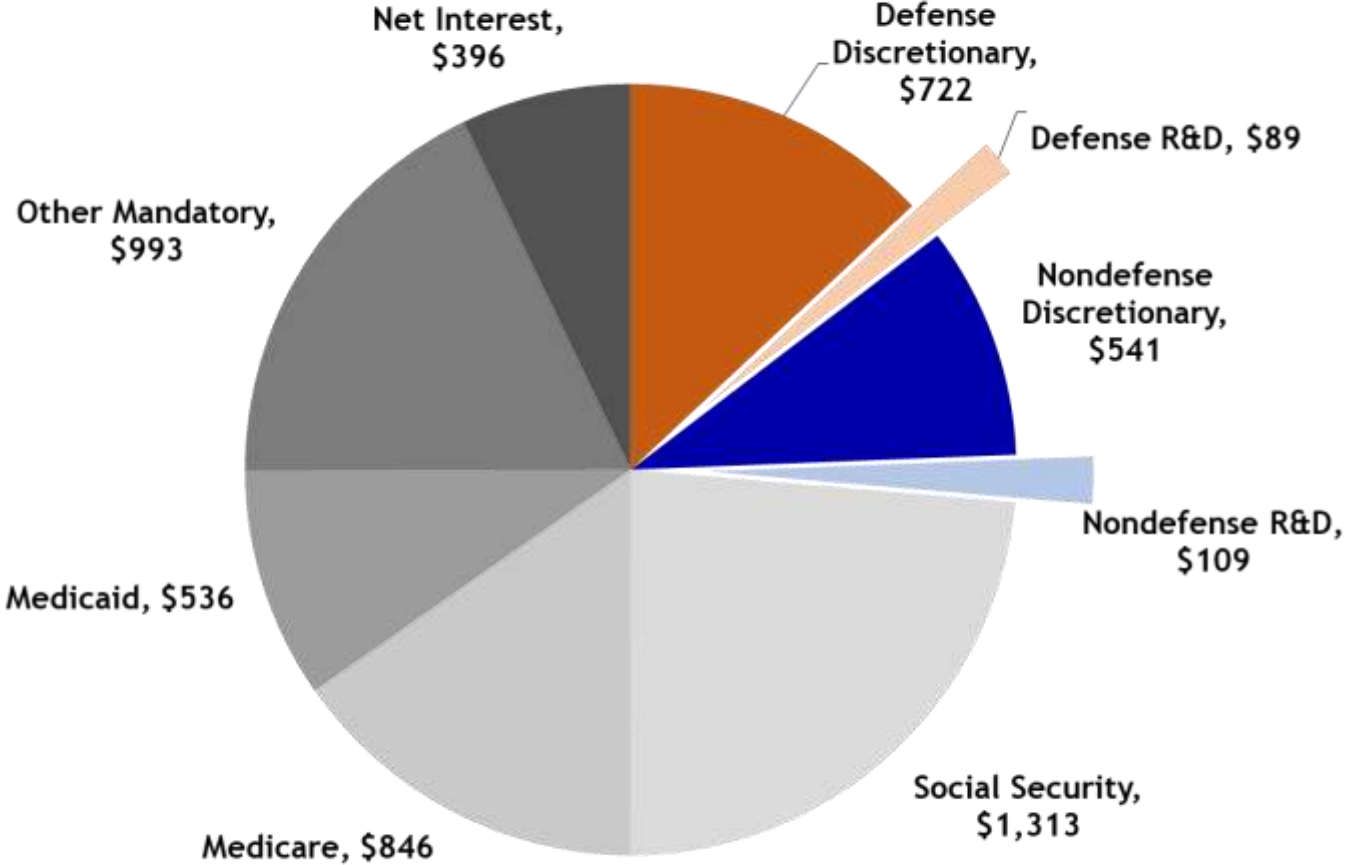
Getty Images



Federal R&D Configuration

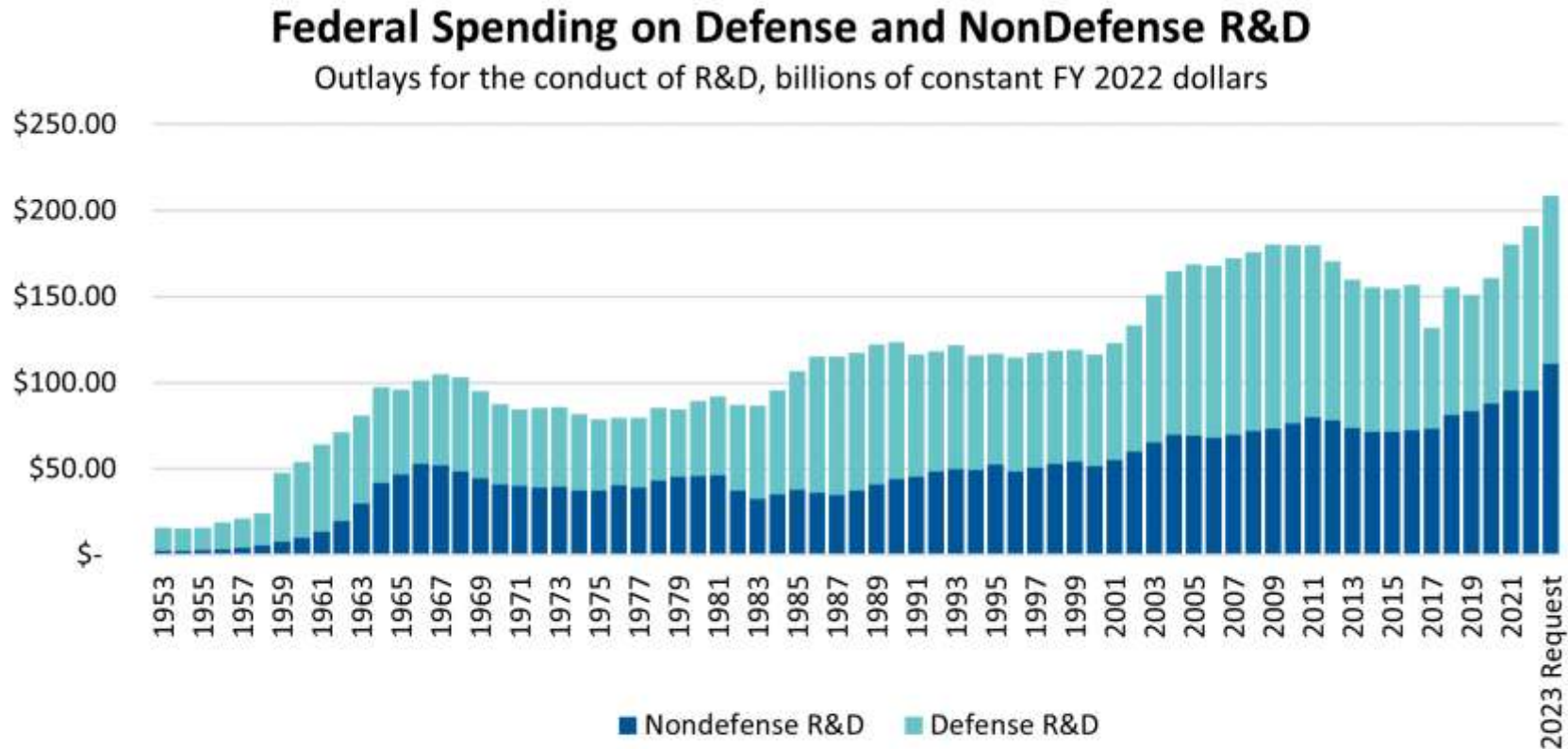
Composition of the Proposed FY 2023 Budget Total Outlays = \$5.8 trillion

Below: outlays in billions of dollars



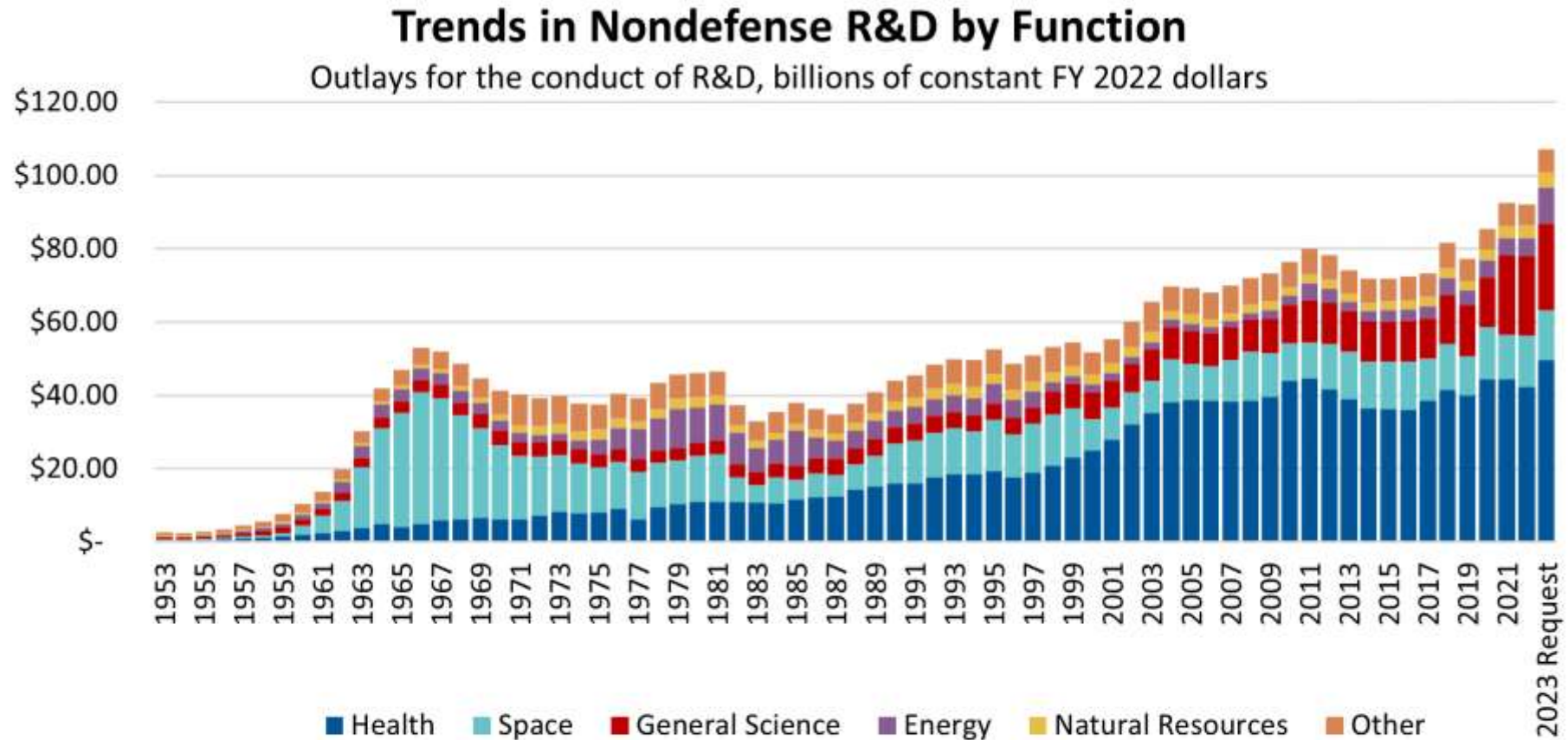
Source: Budget of the United States Government FY 2022. © 2021 AAAS

Balance between NonDefense and Defense Priorities



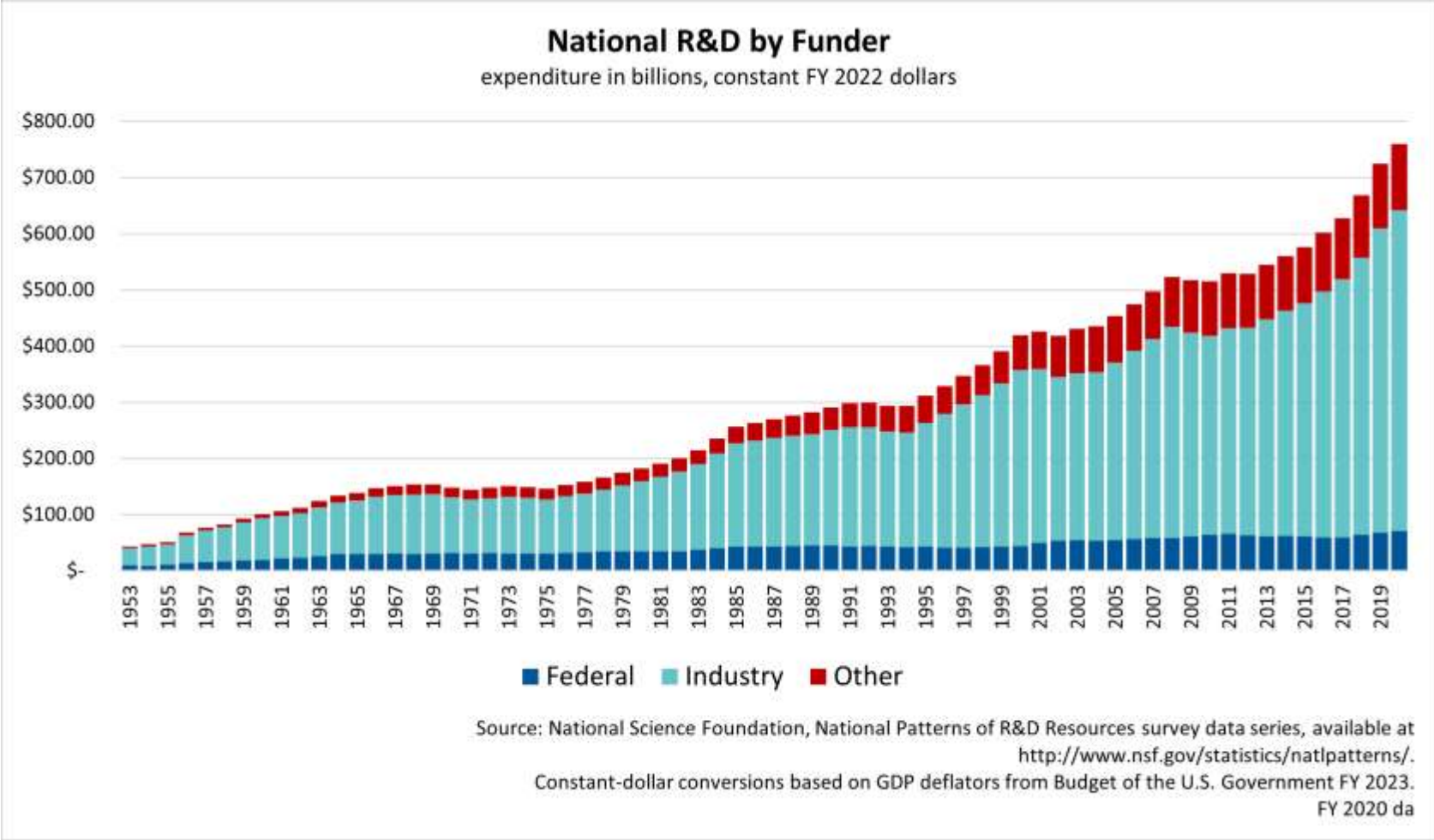
Source: OMB Historical Tables in Budget of the United States Government FY 2023.
Constant dollar conversions are based on chained GDP price index. | AAAS 2022

Nondefense Spending Reflects National Priorities

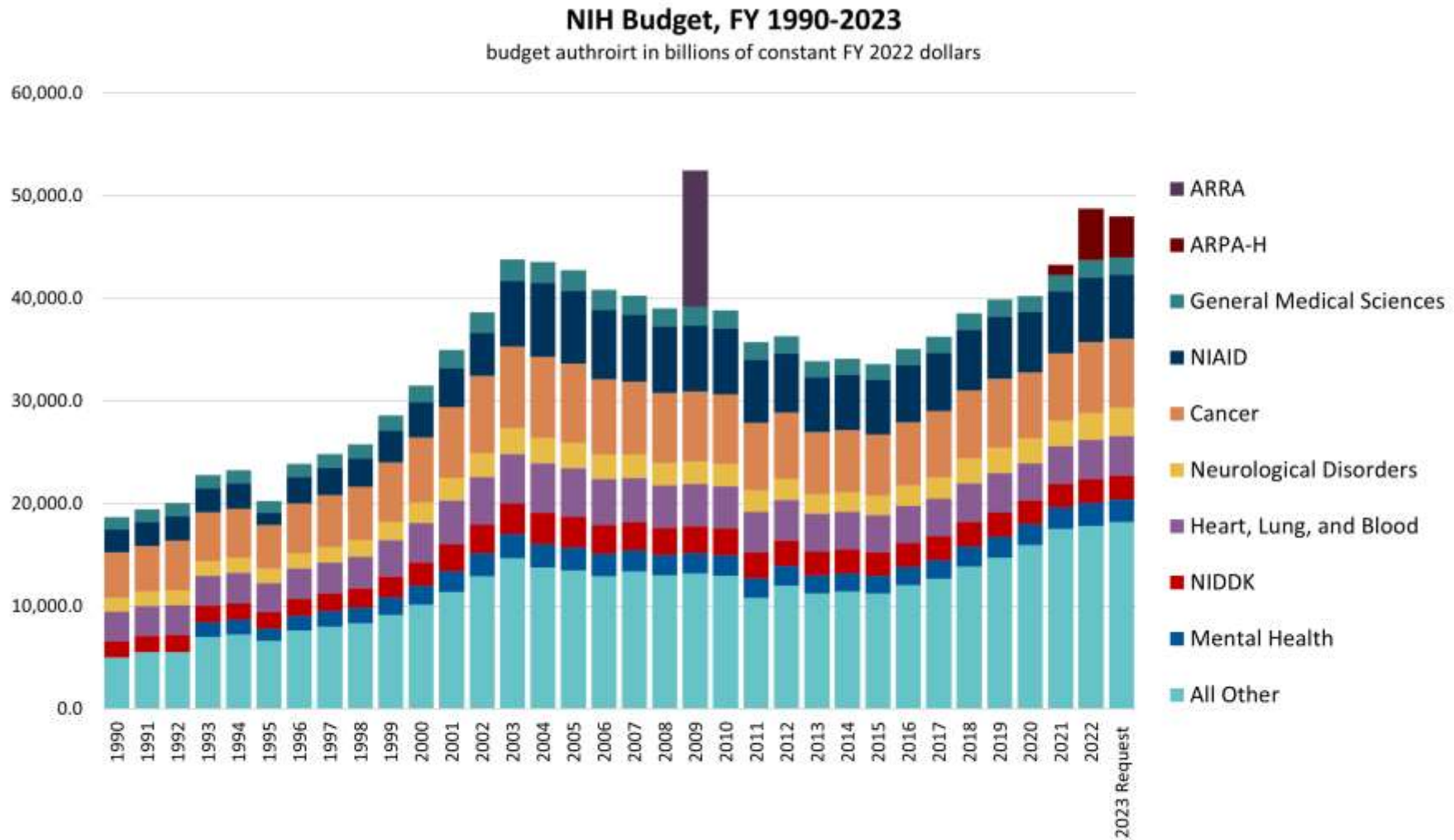


Source: OMB Historical Tables in Budget of the United States Government FY 2023.
Constant dollar conversions are based on chained GDP price index. | AAAS 2022

Innovation Requires both Federal and Industry Investments

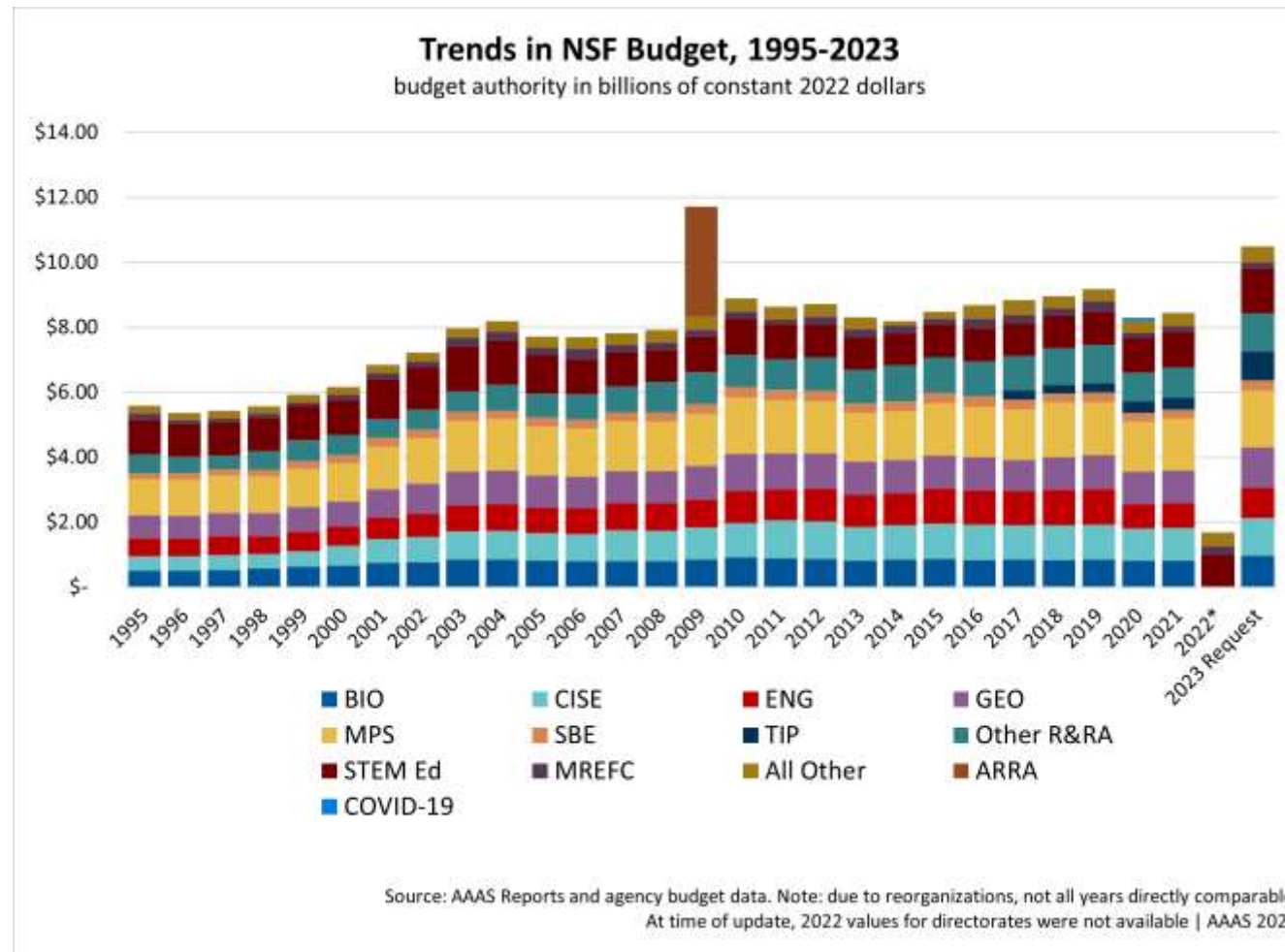


NIH's Mission is to Improve Public Health

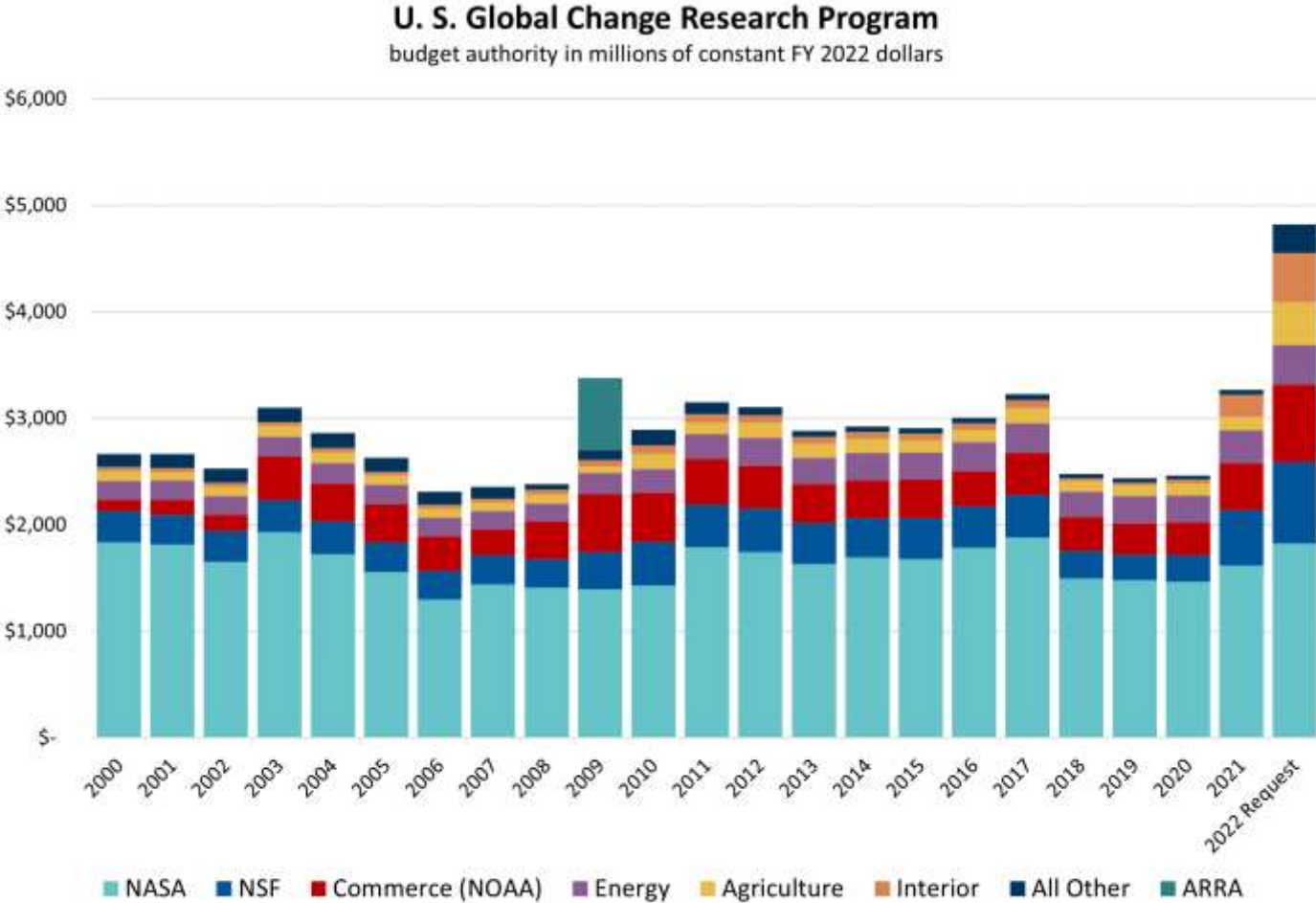


Source: Agency budget data and appropriations | AAAS 2022

Majority of Research Agencies are Mission-driven: NSF an Exception



Addressing Global Challenges Requires Many Agencies



Source: OSTP R&D documents and initiative budget supplements | AAAS 2022

President Biden's 2024 Budget – Science Priorities

- National Institutes of Health
 - Cancer Moonshot
 - New Precision Medicine Psychiatric Initiative
 - Health Effects of Climate Change
- National Science Foundation
 - Scientific Workforce
 - Technology, Innovation, and Partnerships
- NASA
 - Earth Sciences
- Department of Energy
 - Office of Science

CHIPS and Science Act of 2022

- Strong authorizations: NSF, NIST, DOE Office of Science
- Some real \$: microelectronics workforce @NSF
- Funding models, use-inspired/translational research
- Test beds to advance critical tech
- Regional innovation hubs/engines
- Support for women, underrepresented minorities,
and early-career researchers
- Balanced approach to research security
- Quadrennial S&T Review





Thank you!