

The Future of U.S. Government Science Support and U.S. Scientific Leadership

April 2, 2025



AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Who we are

Founded in 1848, the American Association for the Advancement of Science (AAAS) is the world's largest general multidisciplinary scientific society and a leading voice for science worldwide.

AAAS fulfills its mission to "advance science and innovation throughout the world for the benefit of all" through initiatives in science policy, career development, international programs, science education, and the *Science* family of journals.

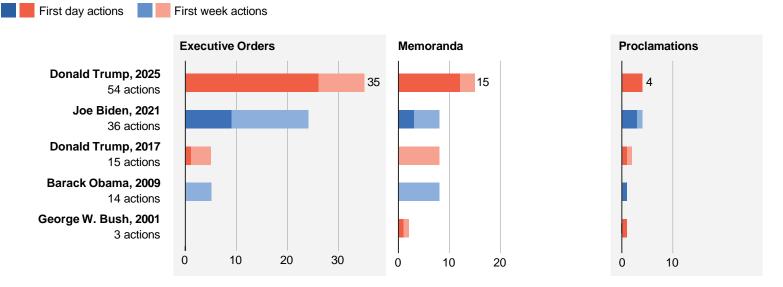


Trump Broke a Record with Executive Orders

Trump signed more executive orders on Day 1 than any president signed in the first week

Trump signed 26 executive orders on his first day in office, nearly triple the nine orders Biden signed on his first day in 2021. In his previous term, Trump signed only one executive order on his first day (and another four in the first week). Former Presidents Barack Obama and George W. Bush did not sign executive orders on their first day, instead releasing memoranda or proclamations only.

Executive actions signed in the first week of office, by president

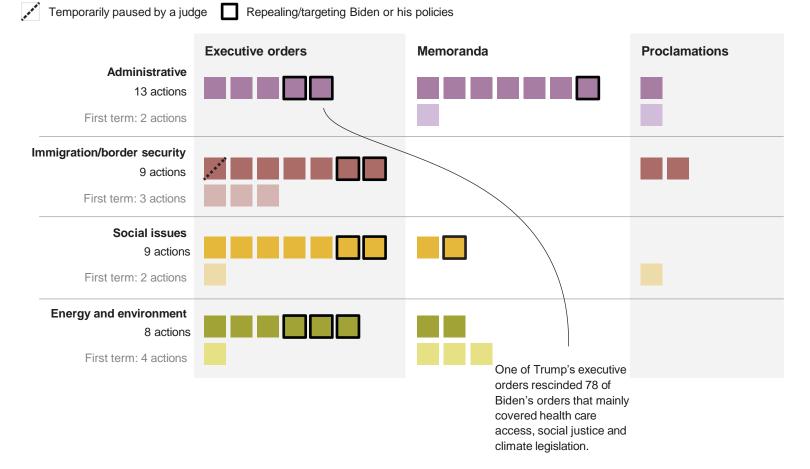


POLITICOPRO

4/2/2025

The administrative changes included repealing former President Joe Biden's policies, implementing a federal workforce hiring freeze and creating the so-called Department of Government Efficiency. Several other actions focused on immigration and border security, the most prominent of which sought to end birthright citizenship and is already facing legal challenges in court. Other social issues that Trump tackled included ending diversity, equity and inclusion initiatives in the federal government and legally recognizing only two genders.

Executive actions signed by Trump in the first week of office, by policy area



Deluge Causes Chaos and Confusion

POLITICOPRO

Executive actions signed by Trump in the first week of office, by policy area

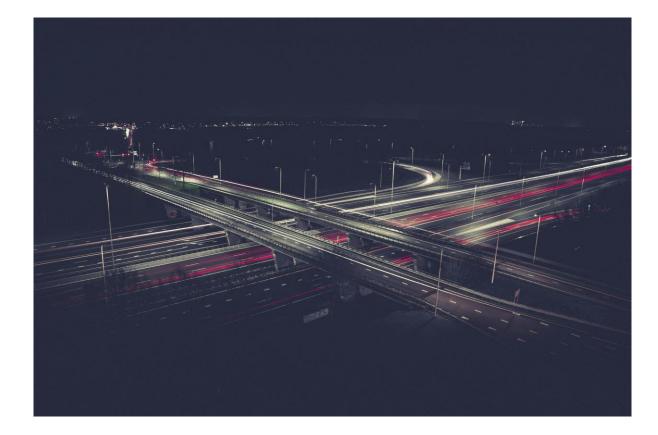
Temporarily paused by a judge Repealing/targeting Biden or his policies

| Foreign policy 6 actions | | | | |
|--------------------------------|---------------------------------|---|---|----------------------------------|
| First term: 2 actions | | | | |
| Trade/economy 3 actions | | | | |
| First term: 2 actions | | | | |
| Technology 3 actions | | | | |
| First term: No actions | | | | |
| Criminal justice 3 actions | | | | |
| First term: No actions | | | | |
| Biden's exec | cutive actions revoked by Trump | | | |
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| | | | | |
| ting ` Trump's S. | | е | f the 10 repealed orders involving (panding health care access, safe) nd affordability, five of them related e | ^y POLITICO PRC |
| THE ADVANCEMENT | | | ovid-19 pandemic. | |

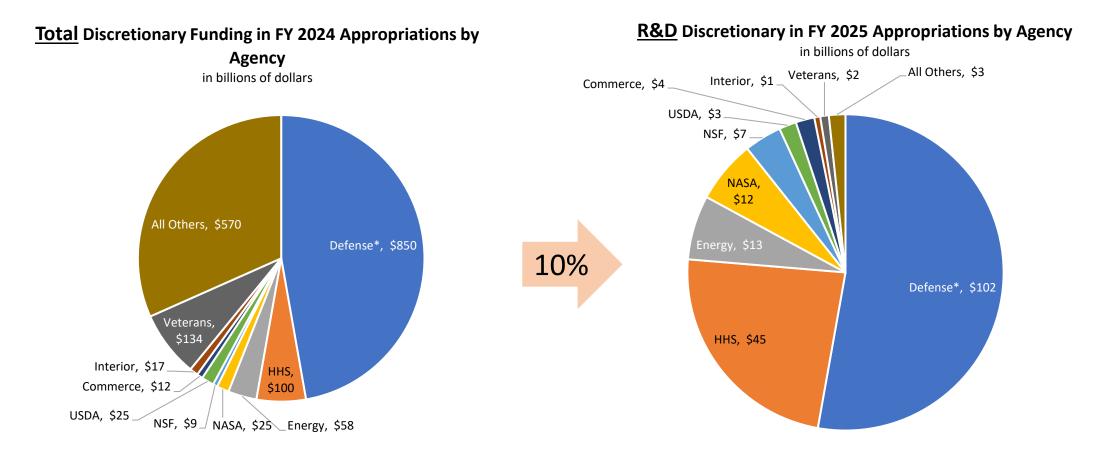
Most of Biden's orders under social issu included promoting education and protect diversity and equity initiatives, whereas T orders focused on repealing such policies

Impacts

- People
- R&D
- Science and tech community



The Federal Discretionary Budget versus R&D Budget

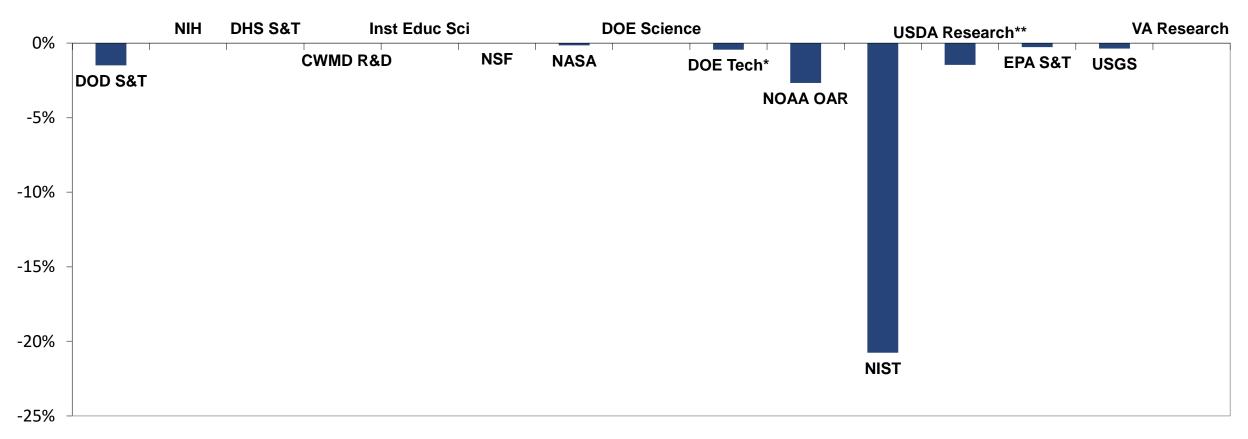


AAAS R&D Resources: https://www.aaas.org/programs/r-d-budget-and-policy

*Includes DOD, NNSA, FBI and DHS CISA



Select Science & Technology Programs in FY 2025 Appropriations

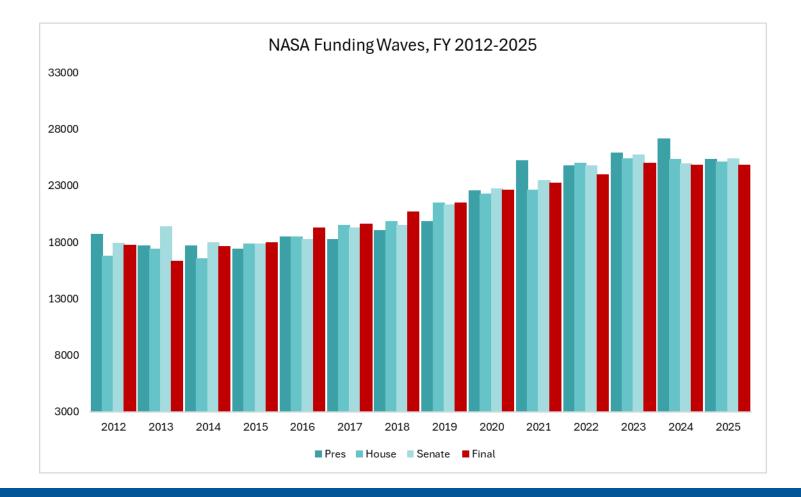


Nominal percentage change from FY 2024

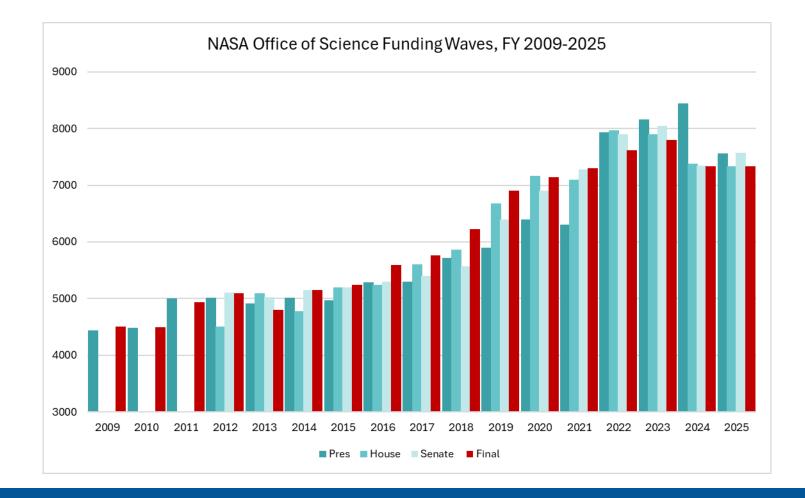
*Includes renewables and efficiency, nuclear, fossil, grid, cybersecurity, ARPA-E, demonstration.

https://www.aaas.org/news/final-fy-2025-rd-appropriations

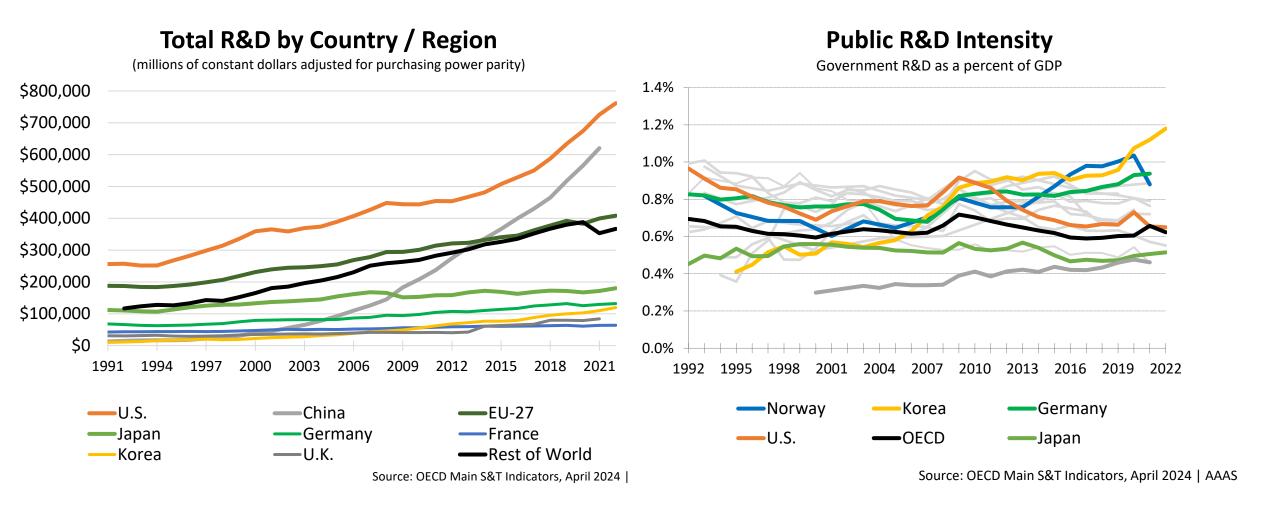
Historical Perspective of NASA Budget



Science Directorate Trending Down



Global Competition in S&T a Priority



https://www.aaas.org/news/us-rd-and-innovation-global-context-2024-data-update

Impact on International Relations

- House Passed DETTERENT Act
- Research Security & University Scrutiny
- Access to User Facilities
- Change Visa Process (+/-)?



PATH TO THE FUTURE:



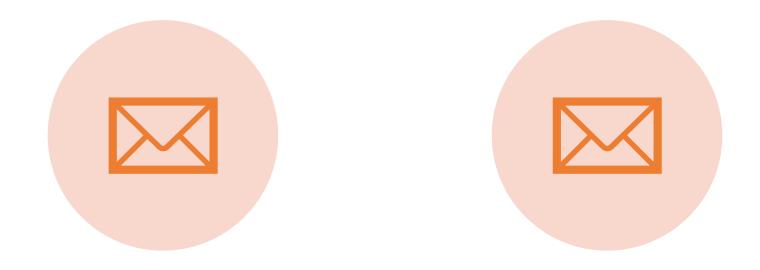
VISION FOR AMERICAN SCIENCE & TECHNOLOGY

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Areas of focus:

- People
- Infrastructure
- Investment

Questions?



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