The Federal R&D Deceleration in Context

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March 12, 2021
AAAS R&D Budget and Policy Program
http://www.aaas.org/rd
Aggregate Discretionary Spending for Federal R&D Accounts

Millions of constant FY 2020 dollars

Based on historical OMB and agency data. | AAAS
"Lost" Federal R&D Under the BCA Caps
Actual funding vs. projected growth at 30-year average, nominal dollars in millions

*Actuals are AAAS estimates. Calculations based on historical OMB and agency data. | AAAS
World R&D by Country / Region
(millions of constant dollars adjusted for purchasing power parity)

Source: OECD Main S&T Indicators, February 2021 | AAAS
National R&D Intensity
Gross R&D investment as a percent of GDP

Source: OECD Main S&T Indicators, February 2021 | AAAS
Public R&D Intensity
Government R&D as a percent of GDP

Source: OECD Main S&T Indicators, February 2021. | AAAS
Researchers per 1,000 in the Labor Force

- Denmark
- Korea
- Sweden*
- Taiwan
- Japan
- Germany
- United States
- China*

*Includes changes in researcher headcount methodology in prior years. Source: OECD Main S&T Indicators, February 2021 | AAAS
Number of Triadic* Patent Families

*Refers to patents for the same invention filed jointly in U.S., Europe, and Japan patent offices.

Source: OECD, Main Science and Technology Indicators, February 2021 | AAAS
**Actual and Projected R&D**

Billions of constant 2020 dollars

- **Actual R&D**
- **Historical Average Trendline**
- **Projected 9.6% Growth**

*Adjusted for comparability, DOD "6.7" removed. Calculations based on historical OMB and agency data. | AAAS
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