

# INNOVATION AND RESEARCH POWER AMERICAN PROSPERITY



## FEDERAL RESEARCH FUELS AMERICA'S FUTURE

Federal scientific research that helps us understand the earth's weather systems and atmosphere keeps America competitive, prosperous, and secure.

American innovation in science drove us to become a global power – from the industrial revolution that reshaped our economy to the space race that captured our imagination and propelled the U.S. to be a global leader in technology and ingenuity.

Today, millions of Americans and multiple industries rely on accurate intelligence and long-term forecasting from federal research to make smart decisions that drive our economy and keep us safe.

**We must protect funding for federal research and innovation to protect essential domestic industries while staying ahead of our global competitors.**

## INDUSTRIES RELY ON FEDERAL PROGRAMS

Many important industries rely on the products and services of federal agencies, including:



### AVIATION & AEROSPACE

Airlines and the FAA use NOAA OAR and NSF NCAR models to avoid turbulence, navigate around storms, and reduce delays



### AGRICULTURE

Farmers utilize NSF NCAR and NOAA OAR models that power rainfall prediction, planting schedules, and irrigation strategies to reduce losses and optimize their crop yields



### REAL ESTATE & HOUSING

Reinsurers and developers use NOAA and NASA data to determine flood, wildfire, drought, and storm risks, reduce overpricing, and ensure accurate property values

# KEY STATS

## FEDERAL INVESTMENTS IN SCIENCE SAVE AMERICANS MONEY



Every \$1 spent on weather forecasting and early disaster warnings saves up to<sup>1</sup>

**\$6** IN DISASTER RECOVERY



Improved temperature forecasts for specialty crops like fruits and vegetables could save producers<sup>2</sup>

**\$12.3 M**



Hazard mitigation efforts save the American public an estimated<sup>3</sup>

**\$3.4 B**  
ANNUALLY



Improved El Niño forecasts could boost the agriculture sector by<sup>4</sup>

**\$300 M**  
ANNUALLY

<sup>1</sup> National Institute of Building Sciences. (2019) Mitigation Saves: Federal Grants Provide a \$6 Benefit for Each \$1 Invested.

<sup>2</sup> NOAA, Global Systems Laboratory. (2022). Evaluating the Economic Impacts of Improvements to Weather Models.

<sup>3</sup> NOAA. Hazard Mitigation Value Fact Sheet.

<sup>4</sup> NOAA, Climate Program Office. (2016c). CPO Works with Partners Across Sectors to Provide Useful and Timely Climate Information.

## PROTECT WHAT MAKES AMERICA EXCEPTIONAL

Support full funding for the federal programs, products, and services that impact every part of our lives, from the food we eat, to the way we travel, and how we live our day-to-day lives.



## WANT TO LEARN MORE?



Reach out to  
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Learn more on our website:  
[usacompetes.org](https://usacompetes.org)

KNOWLEDGE  
FOR A COMPETITIVE  
**AMERICA**