

# Advanced Research Projects Agency for Health

## What is ARPA-H?

Launched in 2022, the Advanced Research Projects Agency for Health (ARPA-H) takes on major challenges in medicine, health care, and public health by supporting high-risk, high-impact research and technology development.

### By The Numbers

**\$1.5  
Billion**

Congress allocated \$1.5 billion in funding to the ARPA-H in FY24.

**3  
Operational  
Hubs**

As of 2023, ARPA-H operates three hubs to connect with stakeholders and other interested parties.

**\$908  
Million**

\$908 million in award funding for FY23.

**15  
Funded  
Programs**

15 total funded programs currently being supported.

### How does ARPA-H support biomedical progress?

Modeled after the Defense Advanced Research Projects Agency (DARPA), known for pioneering technologies such as the internet and GPS, ARPA-H leverages cross-sector, multi-disciplinary collaborations to advance bold ideas in the health.

### Key Areas of Focus

- Health Science Futures
  - From precision tumor removal to reversing blindness to ending the perennial shortage in organs needed for transplantation, ARPA-H is seeking out and supporting highly ambitious efforts to clear major hurdles in medicine.
- Scalable Solutions
  - Leveraging decades of research and technological development, ARPA-H is working to expand the reach and increase the cost-efficiency of U.S. health care.
- Proactive Health
  - ARPA-H is pursuing new tools and approaches aimed at preventing and stopping diseases before they do harm.
- Resilient Systems
  - ARPA-H is fueling advances in health care cybersecurity and other arenas to protect and strengthen the resilience of health care systems in the face of crises.

### What is the value of ARPA-H?

ARPA-H fund projects too speculative or high-risk for traditional funding sources, with the goal of fueling previously unobtainable advances in medicine and health care.



# ARPA-H in Action

ARPA-H currently funds 18 projects and frequently adds new initiatives. Here are a few examples:

## Transplantation of Human Eye Allografts (THEA)

Building on decades of hard-won progress in eye science and neuroscience, ARPA-H is pursuing the ability to reverse vision loss. Currently, only parts of the eye such as the front surface and cornea are used in transplants. By leveraging microsurgical techniques, ARPA-H is working to make full transplantation possible.

## PRINT

Personalized Regenerative Immunocompetent Nanotechnology Tissue (PRINT) is pursuing a revolutionary change in the area of organ transplantation. Grounded in the science of personalized medicine and decades of progress in 3D printing, the objective is to develop the capacity to 3D print personalized organs for transplant. If achieved, this project could end chronic shortages in transplantable organs, as well as the need for lifetime use of immunosuppressive drugs by transplant patients.

## DIGIHEALS

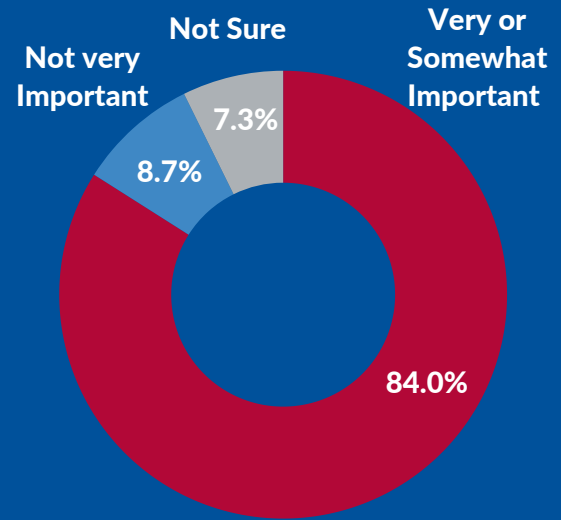
Digital Health Security (DIGIHEALS) supports research and technology development focused on protecting medical devices and the U.S. health care system's electronic infrastructure from hostile threats. This includes the development of interventions to mitigate the impact of cyber-attacks, reducing the effort and cost to find and address vulnerabilities, and enhancing the security and privacy of patient data in electronic records.

# Public Opinion supports the need for ARPA-H Investment

For more than 30 years, Research!America has commissioned public opinion surveys to gain insight into the views of the American people on research-related topics. We know from these surveys that the American people strongly value the medical and health research ARPA-H conducts and supports.

### Question:

*How important is it for the U.S. to set a higher goal for R&D Spending?*



Source: A Research!America survey of U.S. adults conducted in partnership with Zogby Analytics in Jan. 2024

## Nationwide Spoke Network Members per State, as of September 2024

The ARPA-H Spoke Network is a national system of regional hubs designed to accelerate health innovation by focusing on critical health challenges such as cancer, mental health, and infectious diseases. Each spoke brings together local experts, health care providers, researchers, and community organizations to collaborate on cutting-edge ideas, share knowledge, and rapidly develop new treatments, technologies, and health solutions that can benefit people across the country.

