

# **DIVISION OF PROGRAM COORDINATION, PLANNING, AND STRATEGIC INITIATIVES**

## **DPCPSI Vision and Priorities**

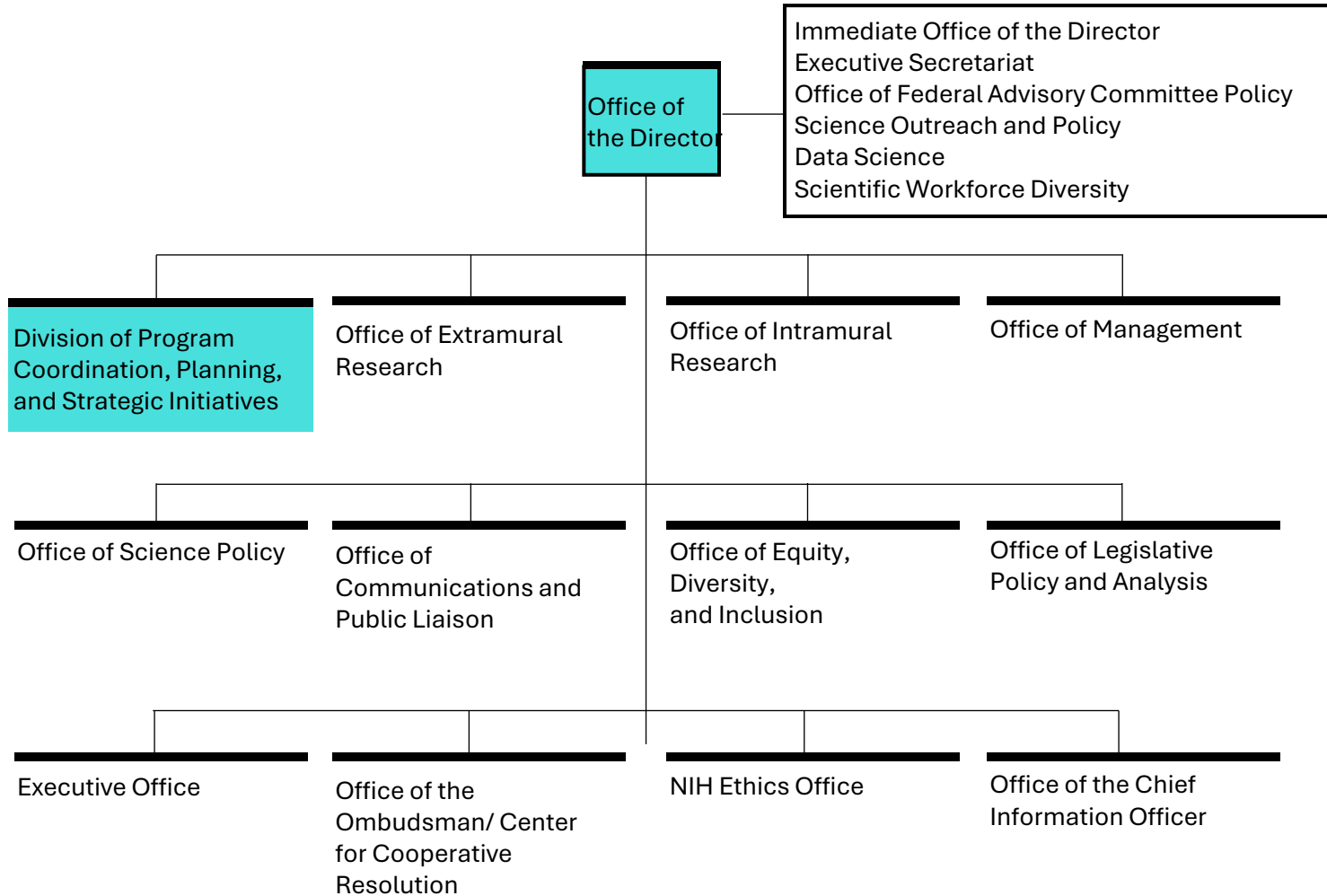
**NICOLE C. KLEINSTREUER, PH.D.**

Acting NIH Deputy Director For Program Coordination, Planning, And Strategic Initiatives  
Acting Director, DPCPSI

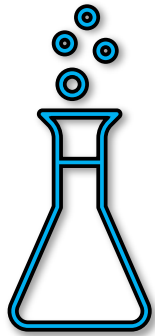
63RD MEETING OF THE NIH ADVISORY COMMITTEE ON RESEARCH ON WOMEN'S HEALTH (ACRWH)

JUNE 17, 2025

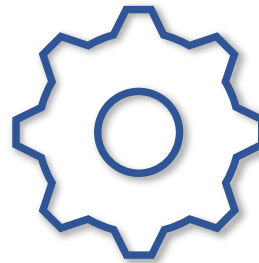
# Office of the Director



# What Does DPCPSI Do?



**Aligns & Catalyzes  
Science**



**Develops  
Resources**



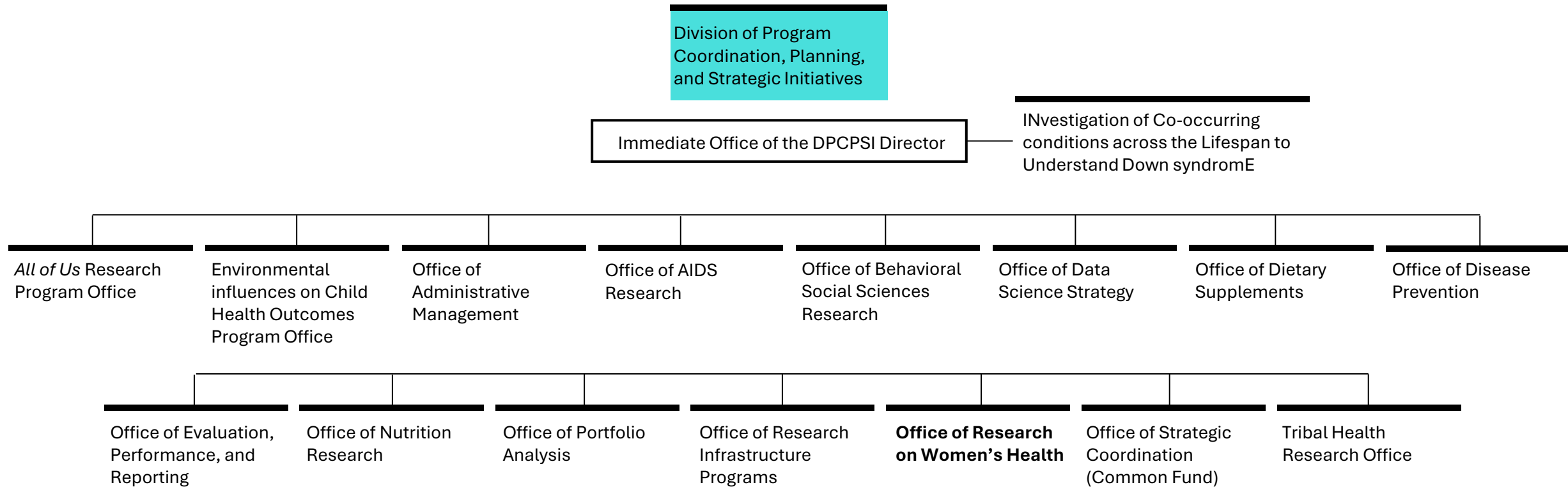
**Facilitates Strategic  
Coordination**

## HOW?

DPCPSI, leading through synergistic **coordination** of its Offices and through vital IC partnerships, **identifies** and **catalyzes** research to address scientific gaps and opportunities, **fosters** collaborations, **develops** methods to enable research goals, and **serves** as an experimental testbed for innovative NIH-wide activities to improve the health of the Nation

# DPCPSI: Nexus of NIH Science Coordination

**Vision:** To collaboratively advance biomedical and behavioral science through cross-cutting, innovative solutions that improve the health of the Nation.



# NIH Director's Priorities

1. **Focus on Improving Population Health:** The work of NIH, whether basic or applied, must address the health needs of the American people, including the chronic disease crises that have hampered the well-being of countless Americans.
2. **Reproducibility and Rigor:** The research NIH conducts and supports must be rigorous, reproducible, and unbiased. NIH must address and solve the reproducibility crisis in the biomedical sciences.
3. **Innovation and Collaboration:** NIH must be at the forefront of biomedical innovation. This will involve embracing new technologies, new ideas, and new approaches to old problems.
4. **Research Safety and Transparency:** NIH must ensure that all the experiments we support pose no risk of harm to human populations and meet the highest ethical standards. We must maintain the highest standards of transparency in all our endeavors.
5. **Academic Freedom:** Advances in science require the freedom to think differently from the scientific consensus. I will foster an environment where varied perspectives are valued and encouraged at NIH and the broader scientific community.

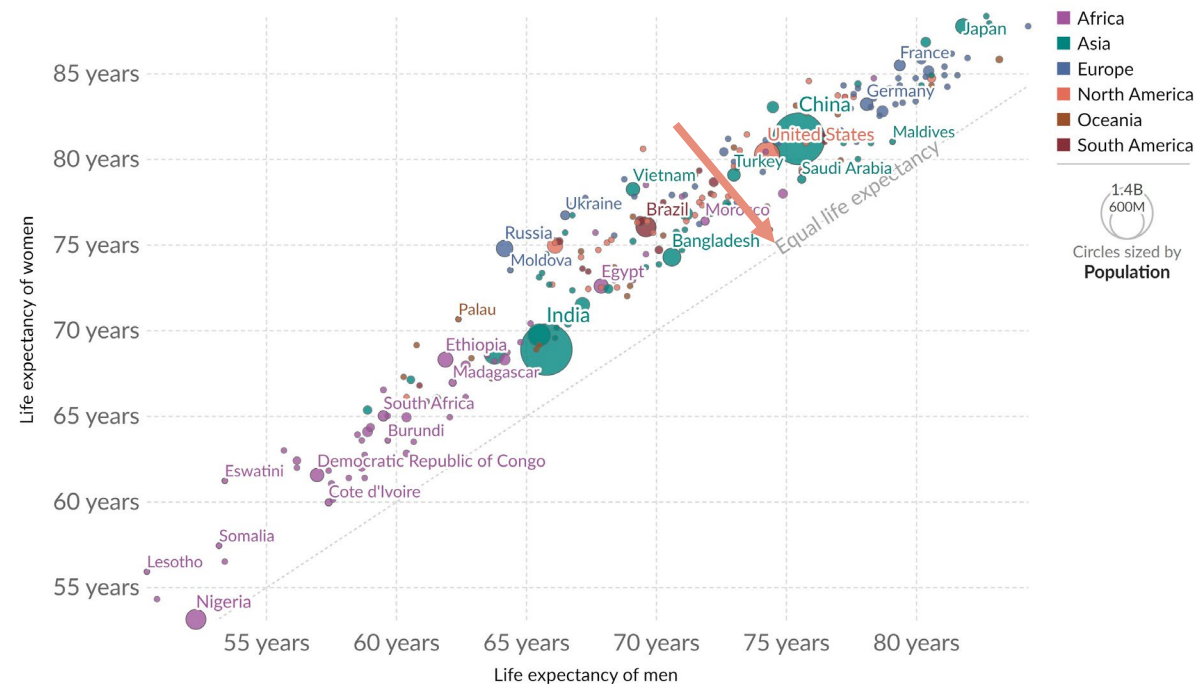
# DPCPSI Director's Priorities

1. **Transformative Science via Strategic Investments:** Identify/accelerate emerging areas of biomedical research (e.g. NAMs) with strong potential for public health impact through cross-NIH initiatives that focus on scientific excellence and innovation.
2. **Stronger Partnerships to Amplify NIH Mission:** Cultivate and strengthen collaborations across ICOs, federal agencies, and external stakeholders on initiatives that are responsive to national health priorities and leverage shared expertise and resources.
3. **Data-driven Decision-Making:** Integrate real-time data, performance metrics, and horizon scanning into DPCPSI processes to inform resource allocation and program planning and evaluation.
4. **Workforce Development and Programmatic Leadership:** Promote innovative training, cross-disciplinary career development, and leadership opportunities that reflect the evolving needs of DPCPSI, NIH, and science and society at large.
5. **Accelerate Translation through Practical Solutions:** Ensure research funded/coordinated by DPCPSI leads to practical, scalable solutions for disease prevention, diagnosis, and treatment by promoting translational readiness, implementation science, and stakeholder engagement.

# Differences in Health for Women

## Life expectancy: females versus males, 2021

The period life expectancy<sup>1</sup> at birth, in a given year.

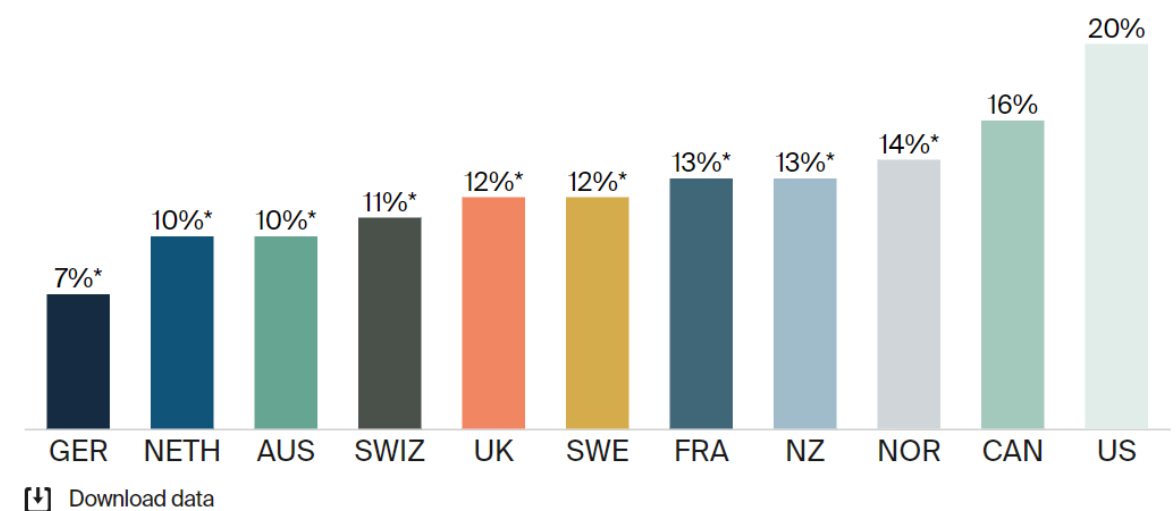


Data source: UN, World Population Prospects (2022)

[OurWorldInData.org/life-expectancy/](https://OurWorldInData.org/life-expectancy/) | CC BY

1. **Period life expectancy:** Period life expectancy is a metric that summarizes death rates across all age groups in one particular year. For a given year, it represents the average lifespan for a hypothetical group of people, if they experienced the same age-specific death rates throughout their whole lives as the age-specific death rates seen in that particular year. Learn more in our article: "Life expectancy" – What does this actually mean?

## Percent of women ages 18–64 who had two or more chronic conditions<sup>^</sup>



Notes: <sup>^</sup> Having a chronic disease defined as ever being told by a doctor as having two or more of the following: joint pain or arthritis; asthma or chronic lung disease; diabetes; heart disease, including heart attack; or high blood pressure. \* Statistically significant difference compared to the United States ( $p < .05$ ).

Data: The Commonwealth Fund International Health Policy Survey, 2016.

Munira Z. Gunja et al. (Commonwealth Fund, Dec. 2018). <https://doi.org/10.2609/wy8a-7w13>

# NIH-Wide Strategic Plans

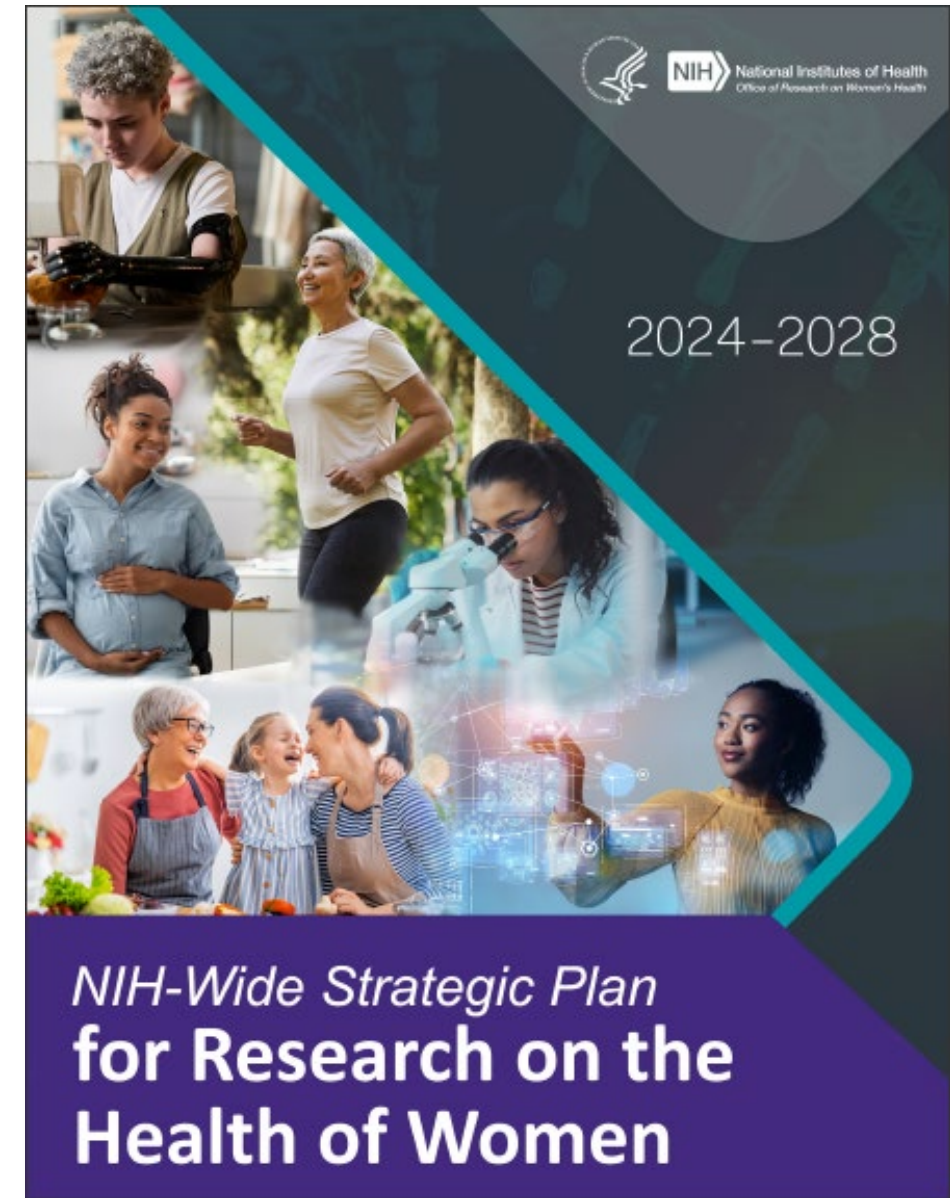
## NIH-Wide Strategic Plan for Research on the Health of Women, FY24-28

Crosscutting Themes and Specific Topics

- Comorbidity and Multimorbidity
- Interdisciplinary Collaboration
- Precision Medicine
- Inclusion of Women and Girls in Clinical Studies
- Sex Differences Research
- Preventive Care and Services

Coming soon...

**NIH-Wide Strategic Plan for Autoimmune Disease Research**



# Addressing Chronic Diseases to Improve the Health of Women



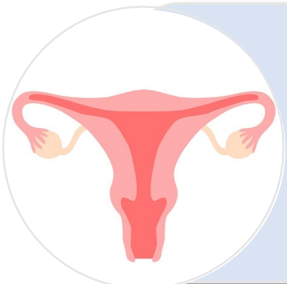
## **HIV and Women Signature Program**

Intersectional and data-driven approach to research on HIV and women



## **The Heart Truth®**

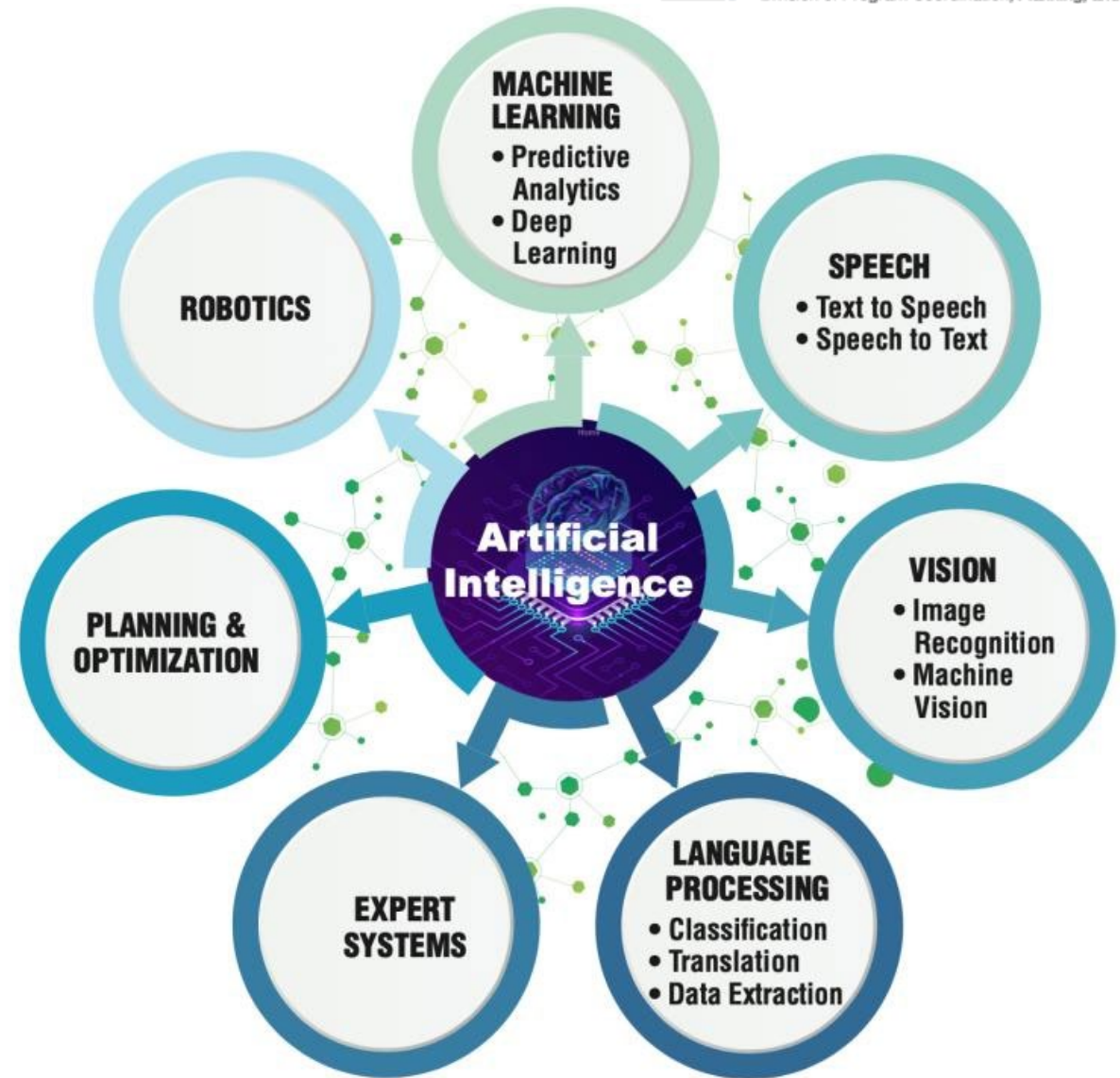
First federally-sponsored national health education program to raise awareness about heart disease as the leading cause of death in women



## **Menopause Pathways to Prevention Program**

Collecting evidence relevant to managing menopausal symptoms and optimizing health in the early postmenopause phase

# AI Use Cases Across Scientific Disciplines



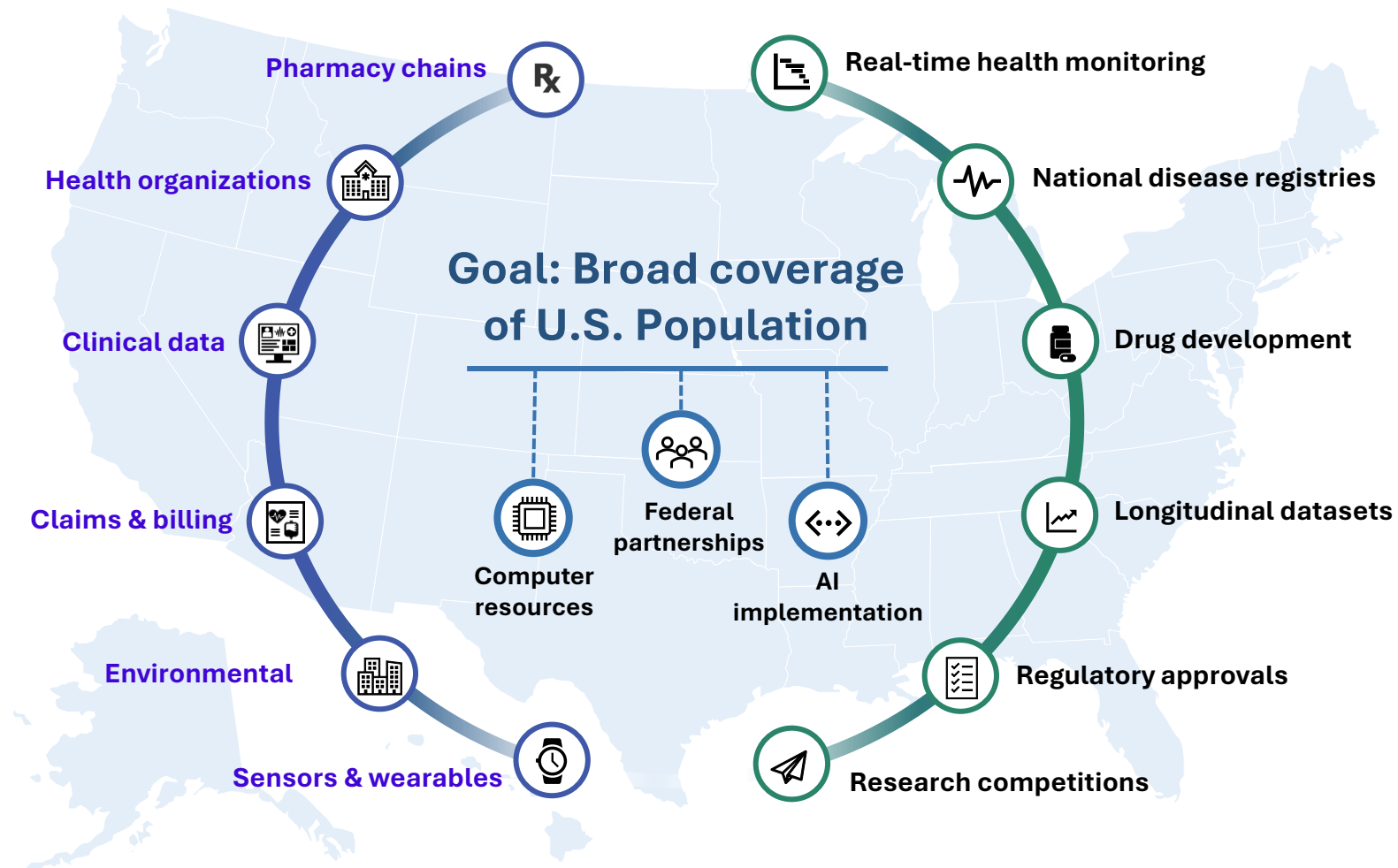
*Kleinstreuer & Hartung. Artificial intelligence (AI)-it's the end of the tox as we know it (and I feel fine).*

<https://doi.org/10.1007/s00204-023-03666-2>

# NIH Real-World Data Platform

Accelerating **discovery**

Data Sources

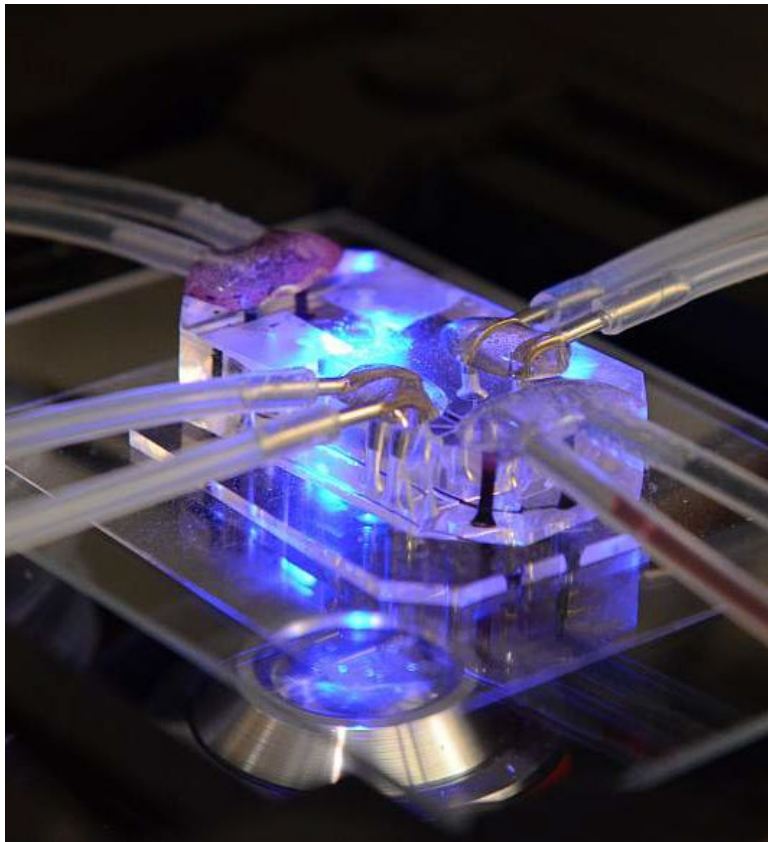


Opportunities

# NIH to prioritize human-based research technologies

*New initiative aims to reduce use of animals in NIH-funded research.*

NIH intends to **develop, validate, and scale the use of new approach methodologies (NAMs)**



- NAMs offer unique advantages that can enhance research capabilities when utilized correctly or in combination
  - Focus on human-specific data
  - Streamline the research process
  - Reduced reliance on animal testing
- NIH investment in these technologies has been increasing over time. Existing NIH efforts include:
  - Interagency Coordinating Committee for the Validation of Alternative Methods (ICCVAM)
  - NCATS Tissue Chip Program and 3-D Tissue Bioprinting Program
  - NIH Common Fund's Complement Animal Research In Experimentation (Complement-ARIE) Program

# NIH to prioritize human-based research technologies

*New initiative aims to reduce use of animals in NIH-funded research.*

- **Coordinate NIH-wide efforts** to develop, validate, and scale non-animal research methods
- Promote the **development and application of 3Rs principles** (replacement, refinement, reduction) for NIH-funded research
- Create a hub for **interagency coordination and regulatory translation**
- Expand **funding and training** for human-based approaches
- Enhance **awareness of the value** of NAMs in translational research
- Expand **NAMs infrastructure** to improve accessibility
- **Train grant review staff** to address possible bias towards animal studies and integrate NAMs experts into study sections
- **Publicly report on research spending** to measure progress

# Requests for Information

## Request for Information (RFI): Inviting Comments on the NIH Artificial Intelligence (AI) Strategy

Notice Number:

NOT-OD-25-117

### Key Dates

Release Date:

June 3, 2025

Response Date:

July 15, 2025



## Request for Information on Responsibly Developing and Sharing Generative Artificial Intelligence Tools Using NIH Controlled Access Data

Notice Number:

NOT-OD-25-118

### Key Dates

Release Date:

May 30, 2025

Response Date:

July 16, 2025

# Leveraging Technology to Improve the Health of Women

A circular graphic on the left features a profile of a woman's head in silhouette, looking towards the right. Inside the circle are several icons: a DNA double helix, a uterus, a microscope, a test tube, a lightning bolt, and a clipboard. The background of the circle is a gradient of blue and green with light streaks.

**RADx<sup>®</sup> Tech  
ACT ENDO Challenge**

Advancing Cures and Therapies  
and ending ENDOMETRIOSIS  
diagnostic delays

NIH National Institutes of Health  
Turning Discovery Into Health

By **embracing technological advancements**, NIH aims to **revolutionize women's health research**, leading to more effective interventions and improved health outcomes for women across their lifespan

A graphic with an orange background featuring a hexagonal pattern. At the top, the text "DEBUT" is in large white letters, with "2024 Challenge Winners" below it. Six hexagonal frames show different technological innovations: a blue surgical instrument, a blood measurement device, a prosthetic leg, a handheld device, a blue surgical tool, and a blue cable with a metal mesh. A stylized "W" logo is at the bottom center.

**DEBUT**  
2024 Challenge Winners

1. Blood Measurement

W

# THANK YOU!



**Have Questions, Ideas, Feedback?**

Email us at:

[DPCPSIDirectorsOffice@nih.gov](mailto:DPCPSIDirectorsOffice@nih.gov)