

# The *All of Us* Research Program



April 13, 2024

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Director of Health Equity

*All of Us* Research Program

 National Institutes of Health

# What is the NIH *All of Us* Research Program?

The *All of Us* Research Program is a historic, longitudinal effort to **gather data from one million or more people** living in the United States **to accelerate research and improve health**. By taking into account individual differences **in lifestyle, socioeconomic, environment, and biology**, we hope that researchers will one day uncover paths toward delivering **precision medicine – or individualized prevention, treatment, and care – for all of us**.

The *All of Us* Research Program is part of the broader Precision Medicine Initiative.

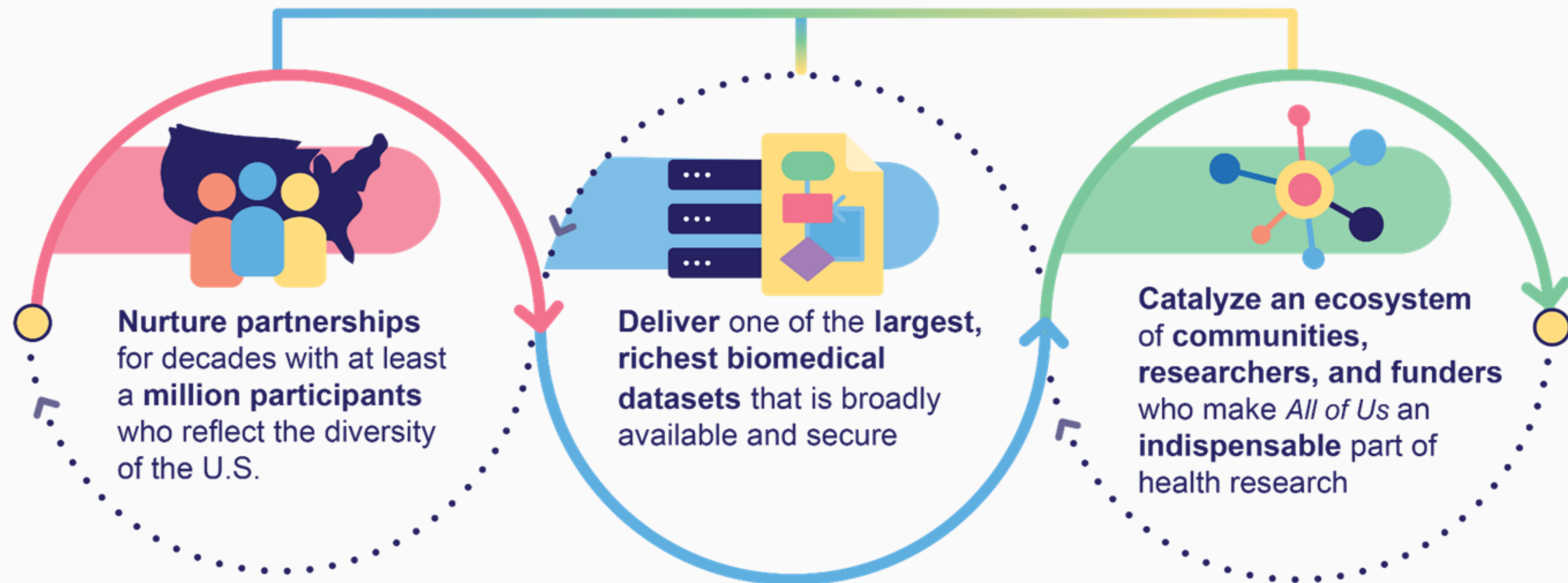


***“All of Us is among the most ambitious research efforts that our nation has undertaken!”***

***Former NIH Director Francis Collins, M.D., Ph.D.***

# Program Mission

Accelerate health research and medical breakthroughs,  
enabling individualized prevention, treatment, and care for all of us



# Enabling Research Discoveries that Drive More Precise Approaches to Care

Engages **people & communities who have been left out of medical research** in the past



Combines **biological factors and social determinants** on a large, inclusive scale



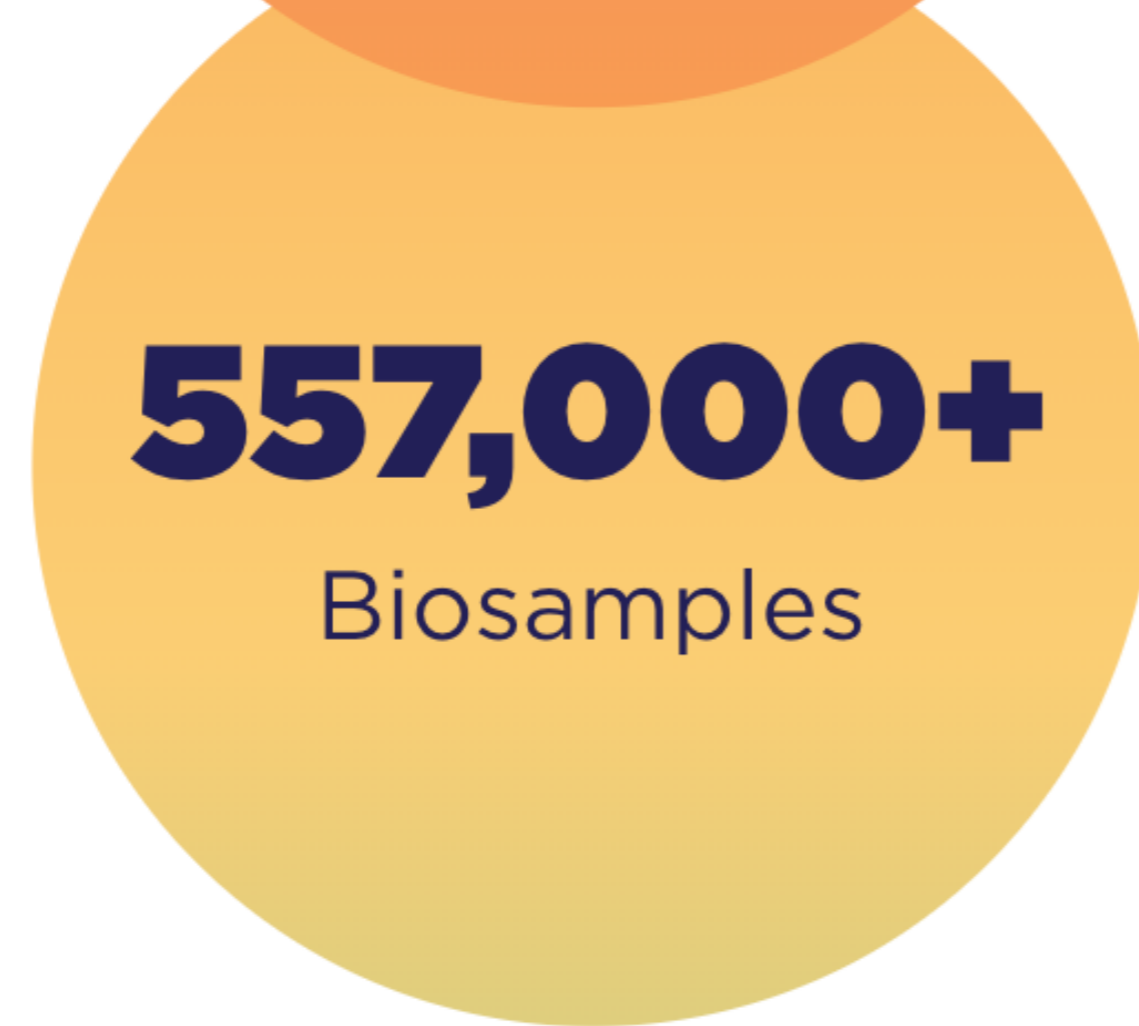
**Easily accessible** to any researcher with a secure internet connection



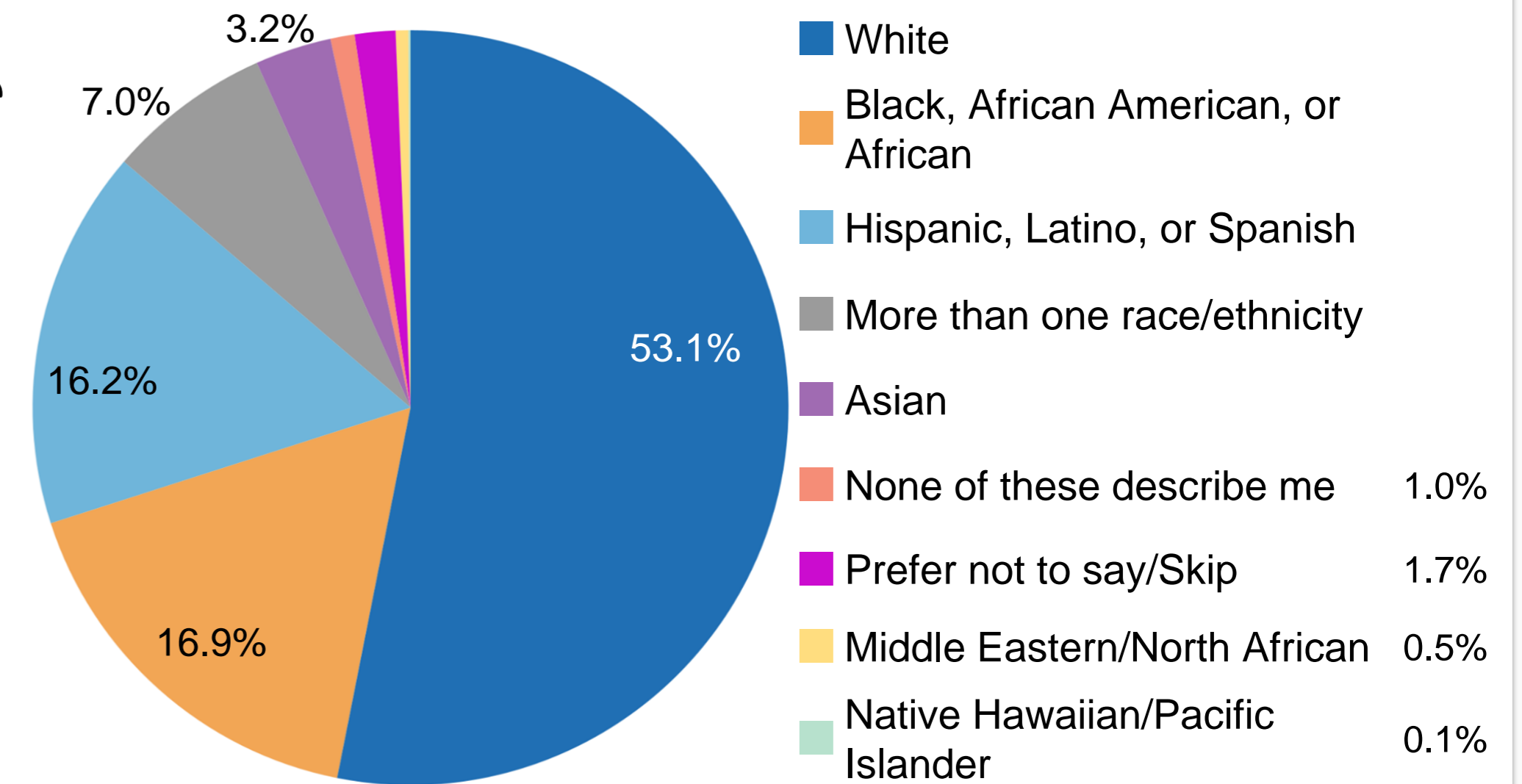
**Follows participants** as they move, age, and grow



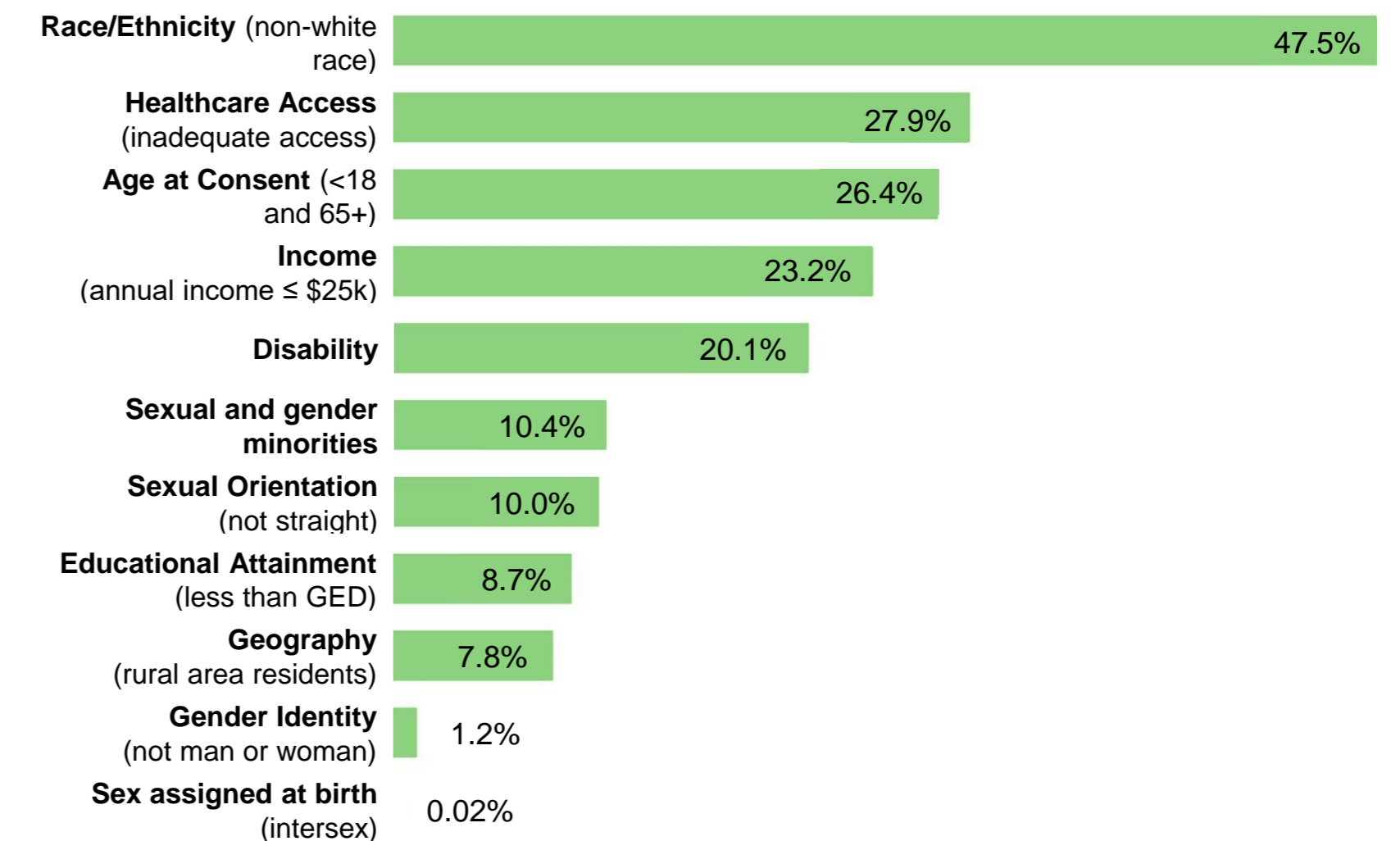
# Status of the *All of Us* Research Program (as of April 8, 2023)



## Race and Ethnicity



## UBR Category



# Engaging Communities Through Trusted Partners



# Genetic Ancestry and Traits (as of April 8, 2024)

## DNA Results

You'll see all of your DNA results here when they're ready. See [options for your DNA results](#).

### Genetic ancestry and trait results

5 results



#### Genetic ancestry

Genetic ancestry can be very interesting, but you may also learn information you didn't expect.

[Learn more](#)

[View Results](#)



#### Bitter taste perception

Learn what your genes can tell you about your bitter taste perception.



#### Cilantro preference

Your genes play a role in whether you like or dislike cilantro.



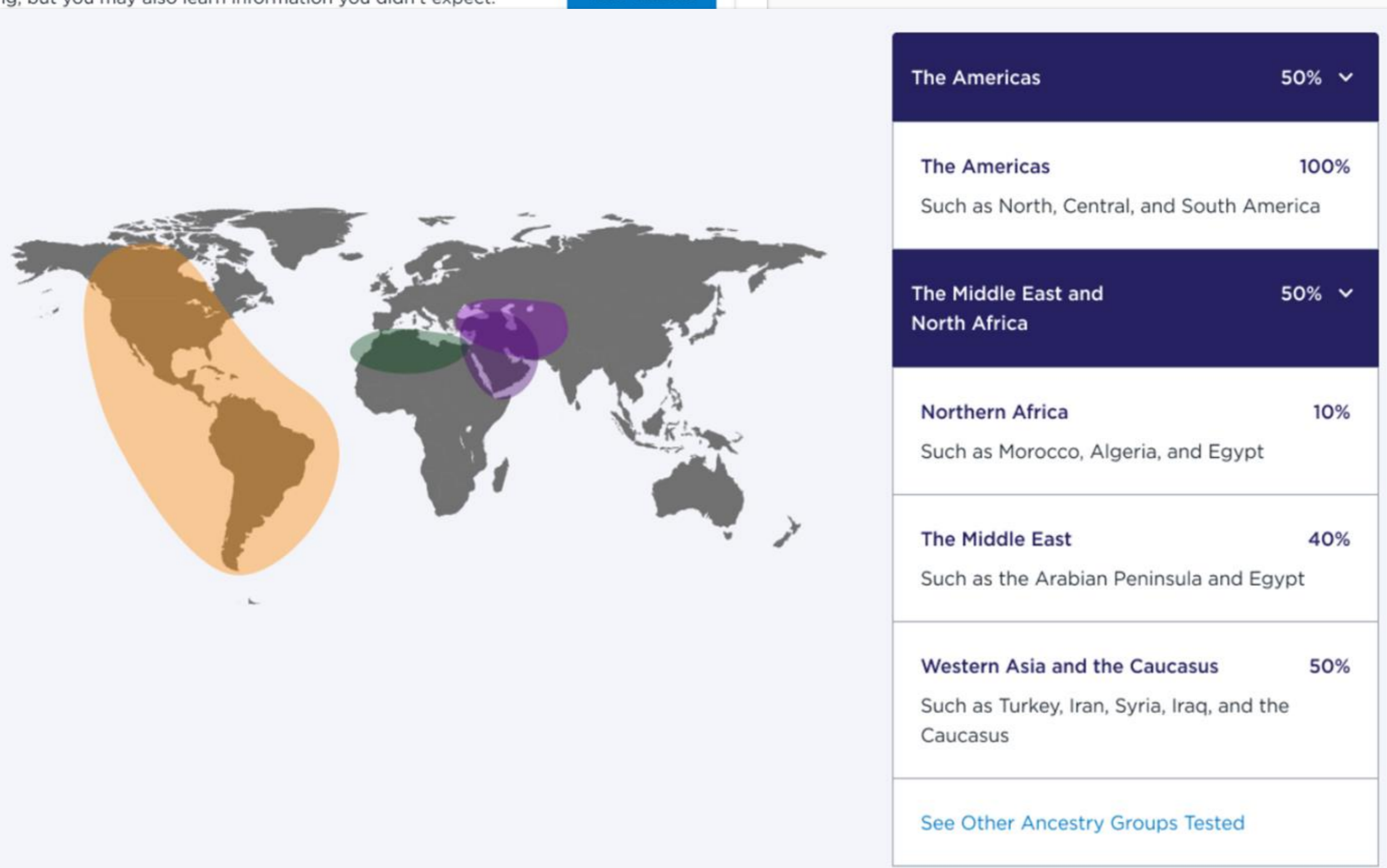
#### Earwax type

Flaky or sticky? Earwax type is in your genes.



#### Lactose intolerance

Your genes have a say in how well you tolerate lactose.



297k+ participants were invited to receive their results

167k+ participants viewed their genetic ancestry results

170k+ participants viewed genetic trait results

# Genomic Health-Related Return of Results (as of April 8, 2024)

## Hereditary Disease Risk

*All of Us* currently looks for genetic variants in 59 genes associated with serious health conditions.

All of Us  
RESEARCH PROGRAM

JANE DOE  
DOB: January 1, 2000  
ID: 2

Specimen: Whole Blood  
Barcode: AOU 000 000 000 0002  
Collected: January 1, 2022  
Report date: September 29, 2022

RESEARCH RESULT - Your doctor will need to confirm this result with a clinical test before using it in your care.



### Your result:

Something very important for your health was found in your **BRCA1** gene.

#### What does this mean?

- If confirmed by a clinical DNA test, this result means that you are more likely to get some types of cancers than other people.
- It does **not** mean that you have some types of cancers.
- It does **not** mean that you will definitely get some types of cancers.
- **This result is important** and should not be ignored.

#### IMPORTANT!

#### Share this report with your doctor.

- This report comes from a research program, so **it is a research result**. Your doctor will need to confirm these results with a clinical DNA test before using them in your care.
- **Do not change your medical care** before this result is confirmed by your doctor.
- **Results provided are from an investigational device**. An "investigational device" is a device that is the subject of a clinical study.

## Medicine and Your DNA

*All of Us* analyzes seven genes that can affect how bodies metabolize medicines.

All of Us  
RESEARCH PROGRAM

DOB:  
ID:

Specimen:  
Barcode:  
Collected:  
Report date:

RESEARCH RESULT — Your doctor will need to confirm this result with a clinical test before using it in your care.



### Medicine and your DNA

#### Our genes affect how we respond to medicine.

They do that in many different ways. Some genes help move medicines to the right part of the body.

#### What is this kind of information used for?

Doctors and pharmacists use this kind of information when they consider why medicines work differently for different people.

**But doctors and pharmacists don't make decisions based on just DNA.** Some other important considerations can be age, weight, health, diet, and other medicines you are taking at the same time.

**233k+** participants asked if they want health related results generated

**101k+** participants viewed HDR results

**97k+** participants viewed PGx results



# Data Tiered Access Levels Enable Discovery



Available to  
Anyone

## PUBLIC TIER

Public resources include:

- **Data Snapshots:** Aggregated, public-facing overviews of participant characteristics and data types
- **Data Browser:** Interactive preview into the *All of Us* dataset through public-facing aggregate data
  - Currently includes participant-provided survey responses, physical measurements, data from EHRs and wearables, and genomic data
- **Survey Explorer:** Details the questions included in each of the surveys
- **Research Projects Directory:** Descriptions of each research project within the Researcher Workbench

## RESEARCHER WORKBENCH

### REGISTERED TIER

**Registered researchers** can access in-depth data and a variety of research tools to conduct a wide range of studies.



Surveys



Electronic  
Health  
Records



Physical  
Measurements



Wearables

### CONTROLLED TIER

**Registered researchers** with amended institutional agreements can access all of the data in the Registered Tier plus additional and expanded data types, including genomic data, real dates of health events, ICD codes, granular demographic data, and more.



Genomics



Health and  
Lifestyle surveys

*Data have been processed to protect participant privacy*

Available to  
Registered  
Researchers

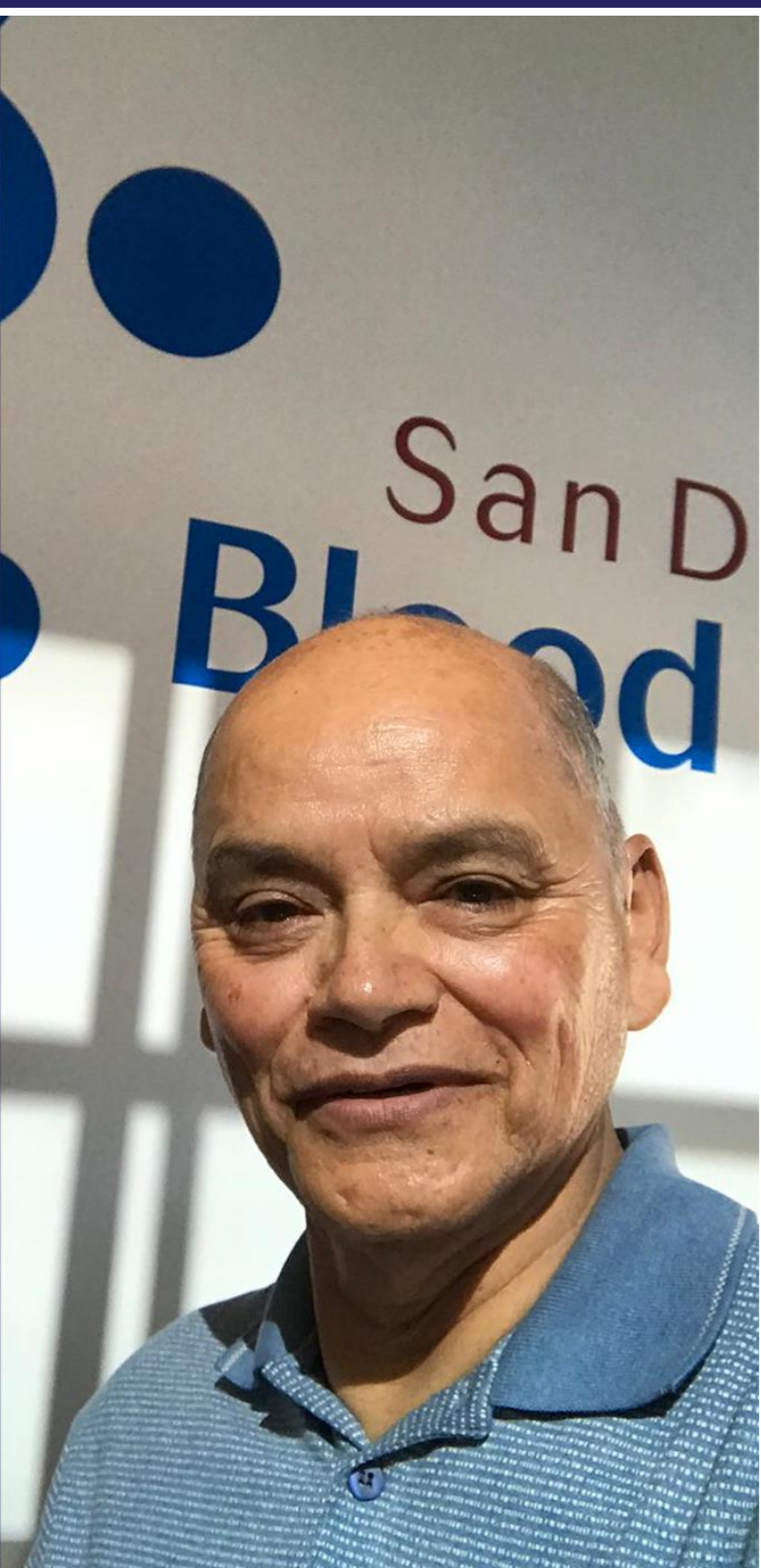




[All of Us.NIH.gov](https://allofus.nih.gov)

[JoinAllofus.org](https://JoinAllofus.org)

[ResearchAllofus.org](https://ResearchAllofus.org)



**Thank you!**

@AllofusResearch  
@AllofusCEO  
#JoinAllofus



**Thank you to our 785,000+ participants!**