

## All of Us Advisory Panel Meeting



April 27, 2022



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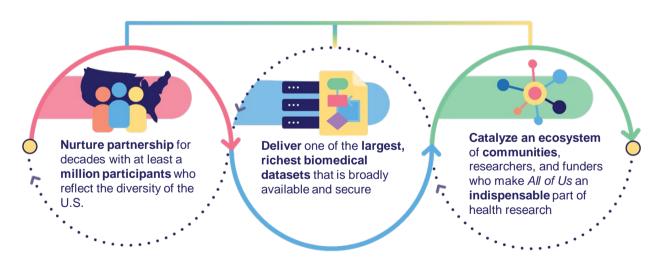


## **Program Updates**

## **Program Mission (small updates)**

## **Our Mission**

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



Made possible by a team that maintains a culture built around the program's core values.

## **Five Year Goals (For 2026)**



Enrollment and retention



Gathering and curating data and specimens via the core protocol



Ancillary studies



Researcher access and impact



Participant return of value

# Five Year Goals By 2026, we will:



Enroll 1 million participants who reflect the diversity of the US, cover the lifespan, and have shared all baseline elements. Of these participants, 500,000 are actively engaged in the program.



Expand data available for 1 million participants, to include surveys, health data streams, a whole genome sequence, environmental data, and physical measures.



Develop and launch a scalable ancillary studies program that expands the cohort and delivers additional phenotypic, lifestyle, environmental, and biologic data.



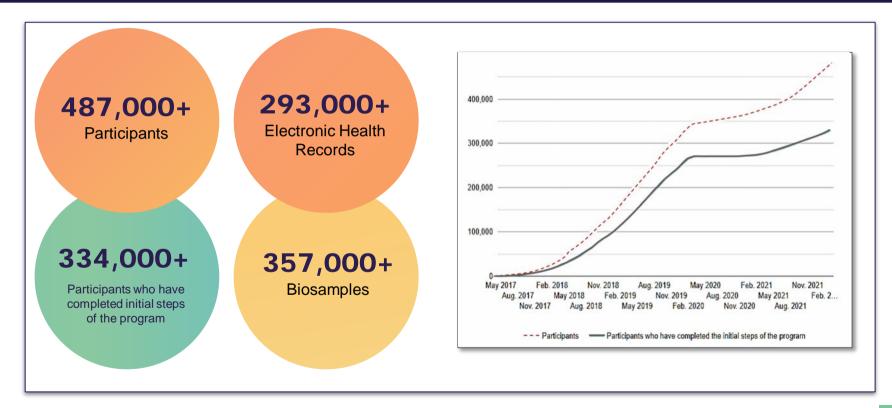
Establish a diverse global community of 10,000 researchers productively using All of Us data.



Incorporate participant return of value into data collections and assess its impact, including return of information to participants on genomics and EHR.

## Status of the Program: Enrollment Number

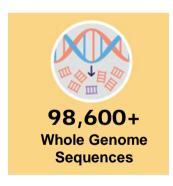
## **Enrollment Update**

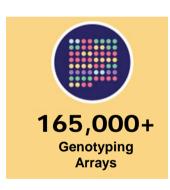


## Since We Last Met: Controlled Tier + Genomics released into the Research Workbench

#### **Researcher Workbench Controlled Tier**

Launched on March 17, 2022







Hail and PLINK in addition to R, Python, and Jupyter Notebooks



Includes 100M+ variants with ≥ 3 occurrences not seen in gnomAD 3.0 (n = 71,702)



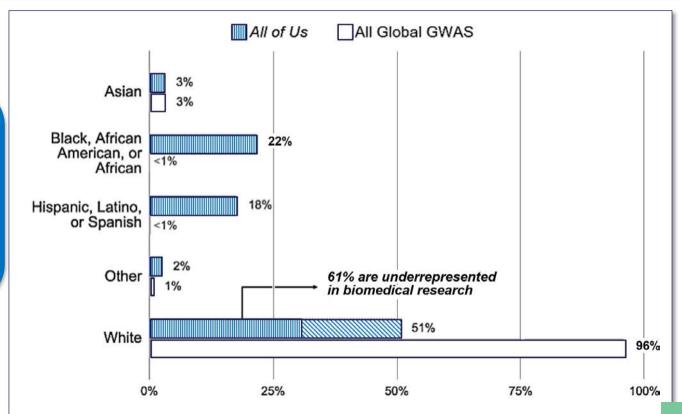
ResearchAllofUs.org/Data-Tools/Workbench/

## All of Us' Inclusion of Underrepresented Groups Will Enhance Diversity of Genomic Studies

## First genomic data set

~50% diverse by race/ethnicity,

80% underrepresented in biomedical research



## Researcher Workbench Users



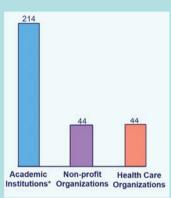
1,940+
Registered
Researchers

across a range of institutional roles and career stages



330+

### **Our Researchers**



\*Includes 36 Historically Black Colleges and Universities and Hispanic-Serving Institutions.



#### Research currently underway



1,430+ Active projects



37+
Publications in peer-reviewed journals



## Top conditions being studied

In the Researcher Workbench include:

- Cardiovascular disease
- Cardiovascular disease
- Hypertension
- Mental Health
- Cancer
- Diabetes

## **Controlled Tier** Research by the Numbers



Figures accurate as of April 19, 2022

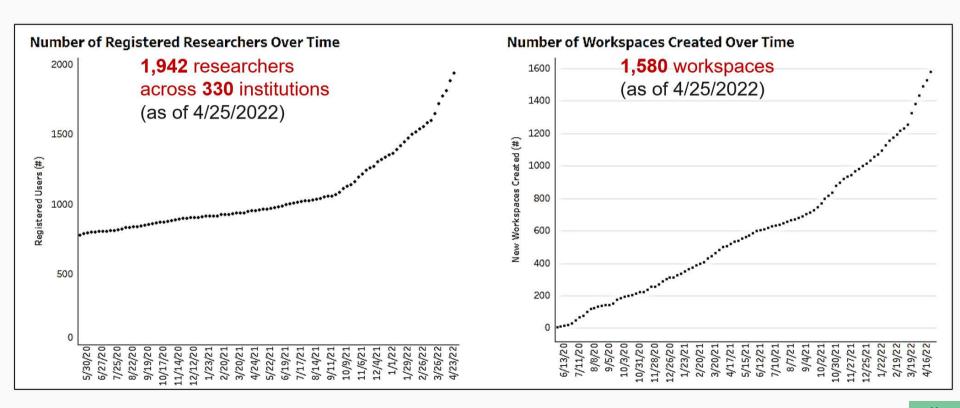


## Topics being studied:

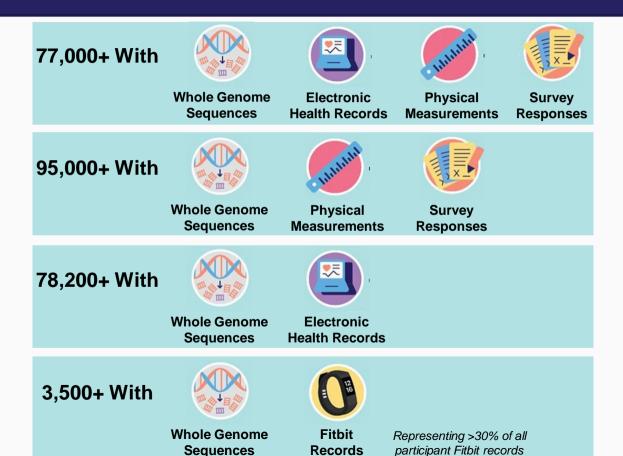
In the Controlled Tier include:

- Genomics
- . COVID
- Fitbit
- Mental Health
- Women's Health
- SGM Health
- Kidney Disease

### Researcher Workbench Usage Increased After the Launch of Controlled Tier



### **Genomic Data Is Paired With Rich Phenotypic Data**



Records

Sequences

# COVID Data on Researcher Workbench: COVID-19 Participant Experience (COPE) Survey

Nearly 100,000
participants
responded to
1 or more of the
6 COPE surveys
administered
between
May 2020 and
March 2021

#### **Topics Covered**



Social
Distancing
Experiences



COVID-19 Related Impact



Mood



Substance Use



COVID-19 Related Symptoms



General Well-Being



Stress



Resilience



COVID-19 Related Testing



Social Support



Physical Activity



Discrimination



COVID-19 Related Treatment



Anxiety

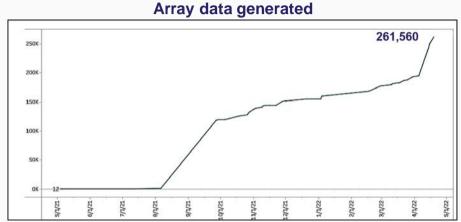


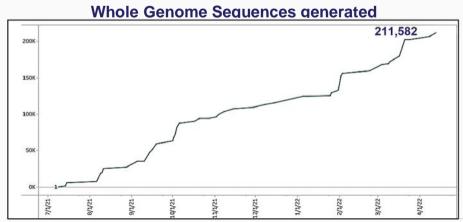
Loneliness



Vaccine Perceptions

## **Returning Genomic Results to Participants and More to Come**





#### **Non-Health Genetic Traits**



Currently returning to participants

>76,770 participants have viewed traits or ancestry

#### **Health-Related Genetic Traits**



Hereditary Disease Risk



Medicine and Your Health

Launching in winter

# Researchers Convention: Minority Student Research Symposium and Science Day

- 930 total registered attendees
- Two-days of live virtual events (March 31st and April 1st):
  - 2 keynotes (Power of Mentorship & Fireside Chat with researchers)
  - 3 plenary sessions
- Minority Student Research Symposium (MSRS):
  - 27 student presentations
- Science Day:
  - 12 abstract presentations from 48 submissions



Actionable PGx variants

>96% of participants carry an actionable PGx variant similar across all ancestries

Biological Age as an independent predictor of stroke risk

