



NIH All of Us Research Program Advancing Genomic Research through Community Engagement

Minnkyong Lee, PhD (she/her)

Deputy Chief Engagement Officer, All of Us Research Program

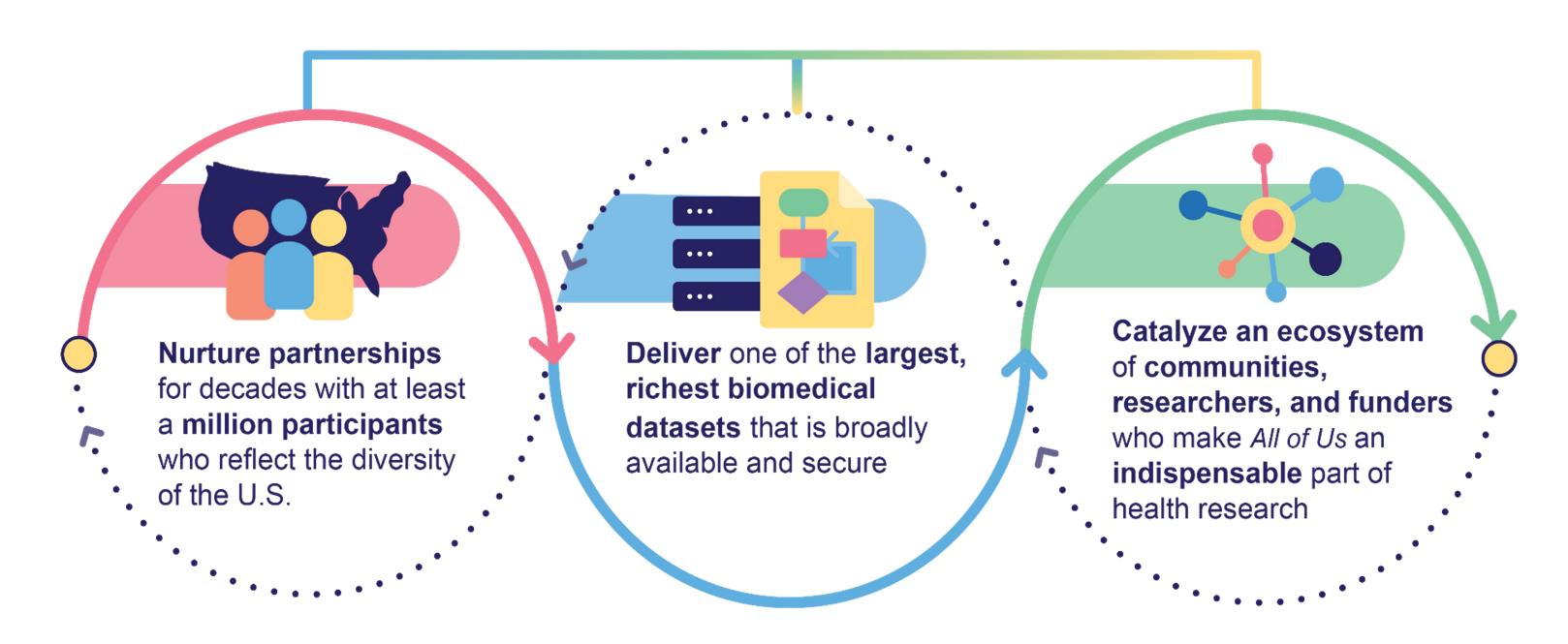
November 8, 2023



The All of Us Research Program

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

All of Us by the Numbers

Participation

728,000+

Participants

500,000+

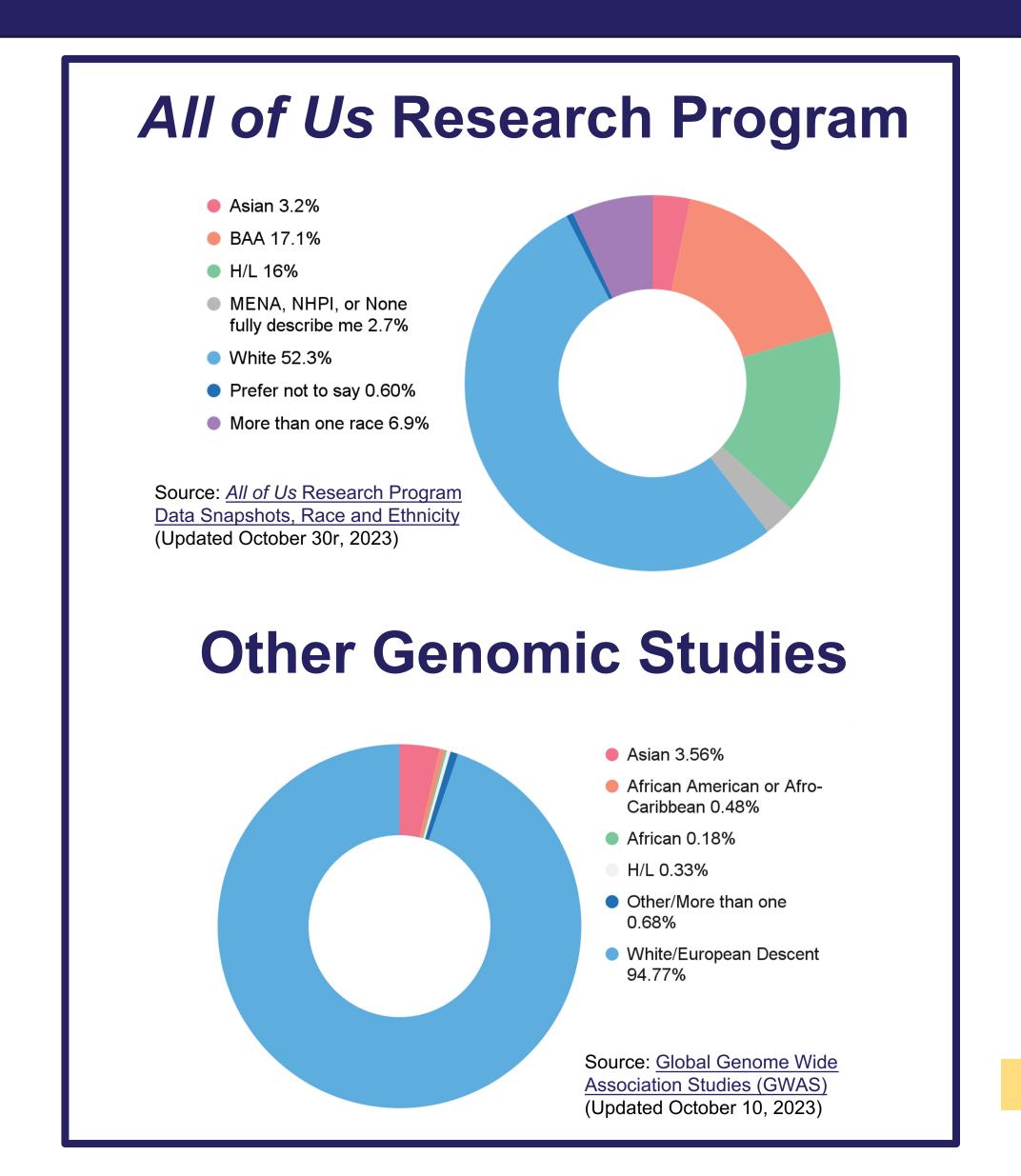
Participants who have completed initial steps of the program

402,000+

Electronic Health Records

517,000+

Biosamples



How We Got Here: The Program's Intentionality Since Its Inception











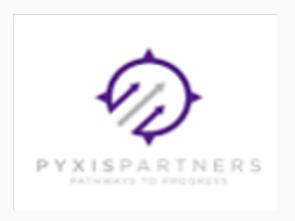




























Messenger Matters: The Importance of Community Partners in Engaging Diverse Communities





EXTENSION









































NACCHO



























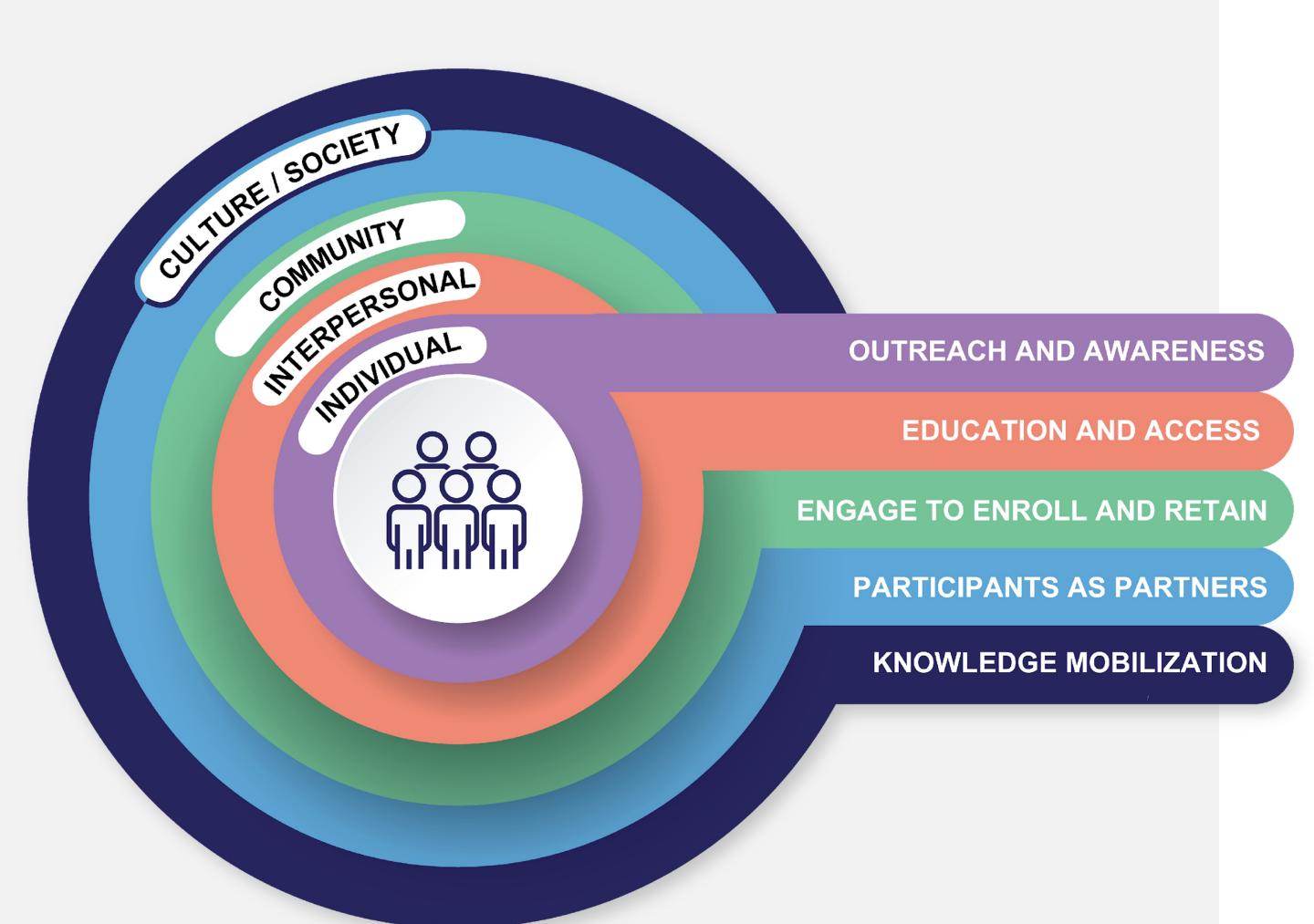
Engaging with participants at an All of Us booth at the annual Linda Vista Multicultural Fair





Engaging with attendees at the 2020 National Rural Health Association (NRHA) Policy Institute Conference

Community and Participant Engagement Framework



Outreach and Awareness

Interactions focused on fostering trust, such as providing materials and information to an audience to learn about research, precision medicine, and the *All of Us* Research Program.

■ Education and Access

Activities that foster education build upon efforts in outreach and awareness to promote the understanding of participation in research. Access is having the resources, information, and the ability to make an informed decision to participate and advocate for research participation.

■ Engage to Enroll and Retain

Engagement activities with the intent to recruit and enroll fully informed potential participants and communities in the program.

■ Participants as Partners

Full integration of engaged participants to elevate their voices, expertise, and experience as a collaborator to co-design, provide feedback and champion research/the program.

■ Knowledge Mobilization

Enhancing who has access to data, research discoveries, or best practices of the program. Ensuring the data is being used by individuals from groups that are underrepresented in biomedical research.

Best Practices to Engage Communities Historically Underrepresented in Biomedical Research

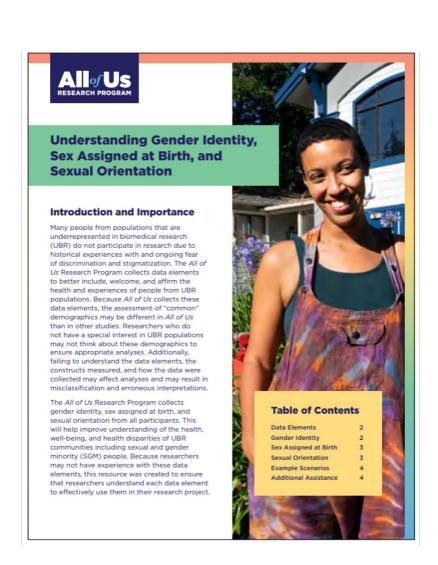
Best Practices for LGBTQIA+ Community Engagement & Enrollment



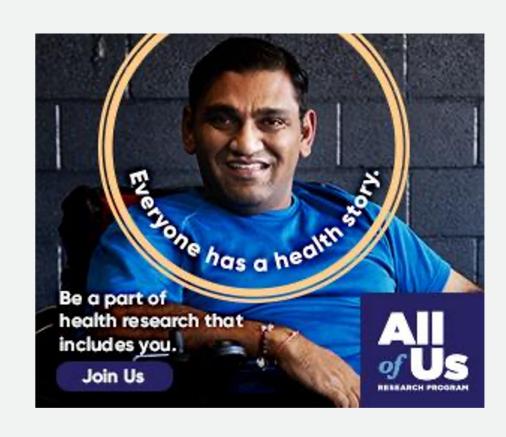


PRIDEnet is a key partner in the cocreation of materials that collect gender identity, sex assigned at birth, and sexual orientation from participants, such as the **Basics**Survey, Standard Appearance Release Forms, etc.

The program makes resources available to researchers to ensure appropriate analyses of these data elements. They highlight the importance of understanding gender identity, sex assigned at birth, and sexual orientation.







The Basics Survey disability-related questions were co-developed with AAHD to address critical data missing on life functions and improve the program's ability to calculate disability metrics.

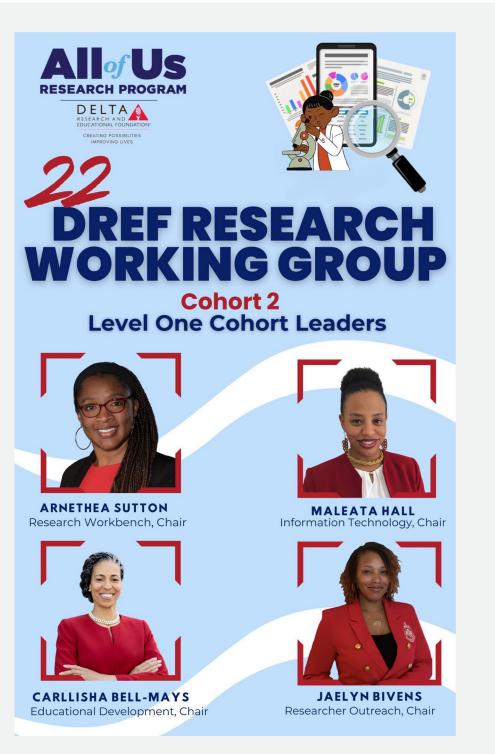
The program also created a **Disability Community Toolkit** containing general and community-based best practices for engaging persons with disabilities.

Culturally Congruent Engagement



DREF Research Accelerated Possibilities (RAP) Program

• DREF is partnering with 8 HBCUs across the country to educate and engage students to participate in the *All of Us* Research Program, Research Hub, and Researcher Workbench.



22+ Delta Researchers

- The 22+ DREF Research Working Group is comprised of 22 active researchers, 2 student researchers, and 4 network members from the Delta Sigma Theta Sorority, Inc.
- The group plans Lunch and Learn educational sessions to address heart, maternal, and mental health.
- During each session, DREF presents a speaker who discusses their prospective research aimed at improving health care through research.

Asian Health Coalition Language Pilot



- Simplified and
 Traditional Chinese
- Hindi
- Vietnamese

光鹽社

Light and Salt

Association

Korean









The Power of Collaboration & Meeting Communities Where They Are

Central All of Us Journey, UT School of Public Health, March 6-10, 2023

- The **All of Us Journey**, our Mobile Engagement Asset (MEA), is a traveling mobile exhibit that addresses access issues by going where the community is located.
- UT Health supported media promotion for MEA two-week visit to Brownsville, TX.

327 Quality Conversations 121 Total Engagements 150 Accounts Created 98 PM&B Collections 1 Media Interview



#UTHealth Houston School of Public Health













The Largest Research Undertaking in Genomics Return: Individual DNA Results

- All of Us began returning health-related DNA results to participants less than one year ago (December 2022)
- We are offering health-related DNA results to 5k participants a week
- We still have more work to do to provide an equitable DNA results experience to all eligible participants
- Top 5 genes (HDR): BRCA2, LDLR, BRCA1, MYBPC3, PMS2

Next:

- Prioritizing to fulfill our commitment to all eligible participants
- Clear, transparent communications to participants on their status

Participants DNA Results 180k+ offered choice **146k+** (79%) said "yes" 144k+ viewed results **Traits** 180k+ offered choice **94k+** (51%) said "yes" 69k+ viewed results **Hereditary Disease Risk** (HDR) 180k+ offered choice **90k+** (49%) said "yes" **Medicine and Your DNA** 66k+ viewed results (PGx)

Program Priorities for 2023: Researcher Access

Our Researchers



7,550+
Registered
Researchers



380+

Academic Institutions

97 MSIs

40 HBCUs **57** HSIs



110+

Not-for-Profit Organizations

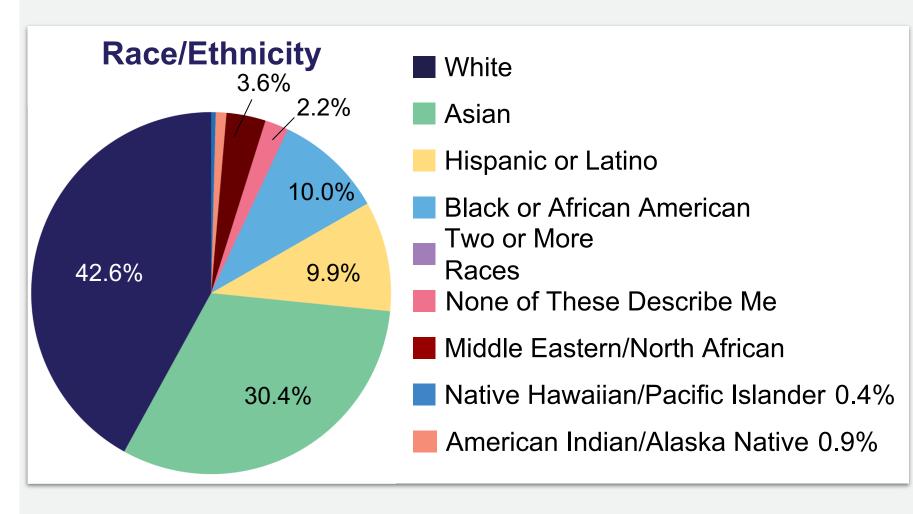


70+

Health Care Institutions

A Focus on Diversity

- 96% of researchers are diverse
- >75% are underrepresented in the biomedical workforce (UBW)
- >30% are UBW for Race or Ethnicity



We expect to meet our 2026 Goal of 10,000 Researchers Goal in 2024!

Researcher Engagement Highlights

PRIDEnet *All of Us* Researcher

Basecamp

March 23-24, 2023



In-person training course for researchers who are UBW to launch LGBTQIA+/SGM-related projects in the Workbench, resulting in:

- 5 new DURAs
- 1 Controlled Tier driver
- 20 new workspaces
- 15+ researcher (UBW) registrations

Biomedical Researcher Faculty
Summit
May 17–20, 2023



A 3-day summit alternating between hour-long speaker presentations, data science training, and networking/research team working sessions.

- 34 scholars from
- 26 institutions,
 all of whom created Researcher
 Workbench accounts

University of Utah Summer Institute July 18-20, 2023



Annual multi-day workshop designed to introduce high school teachers to *All of Us.*

2023 session goal: Excite and motivate teachers about engaging students in conducting research using the Workbench.

- 17 high school life science teachers attending
- All teachers were registered on the Workbench



Get Connected to All of Us

Minnkyong Lee, PhD (she/her)
Deputy Chief Engagement Officer,

All of Us Research Program

minnkyong.lee@nih.gov



researchAllofUs.org



