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Introduction

Asian Americans and Canadians (ASACs) are the fastest growing minority group in the US and Canada, but they are under-representative in AD research. ACAD aims to recruit >5,000 ASACs in 2023 to 2028, currently focusing on Chinese, Korean, and Vietnamese ancestries, using culturally and linguistically appropriate, community-based approaches to address the knowledge gap.

ACAD Data Categories

Phenotype and Clinical Data

- Early life experiences
- Physical activities
- Social network
- Cognitive battery
- Neurological assessment
- Immigration experiences
- Diet & sleep
- Medical history
- Functional assessment

Genetic Data

- APOE genotype
- SNP array data
- WGS (in collaboration with ADSP-FUS!)

Blood-based Biomarker Data

- Plasma: Aβ 40/42, P-Tau 181, p-Tau 217, GFAP, NfL
- Serum: Creatine (forthcoming)

Forthcoming Data:

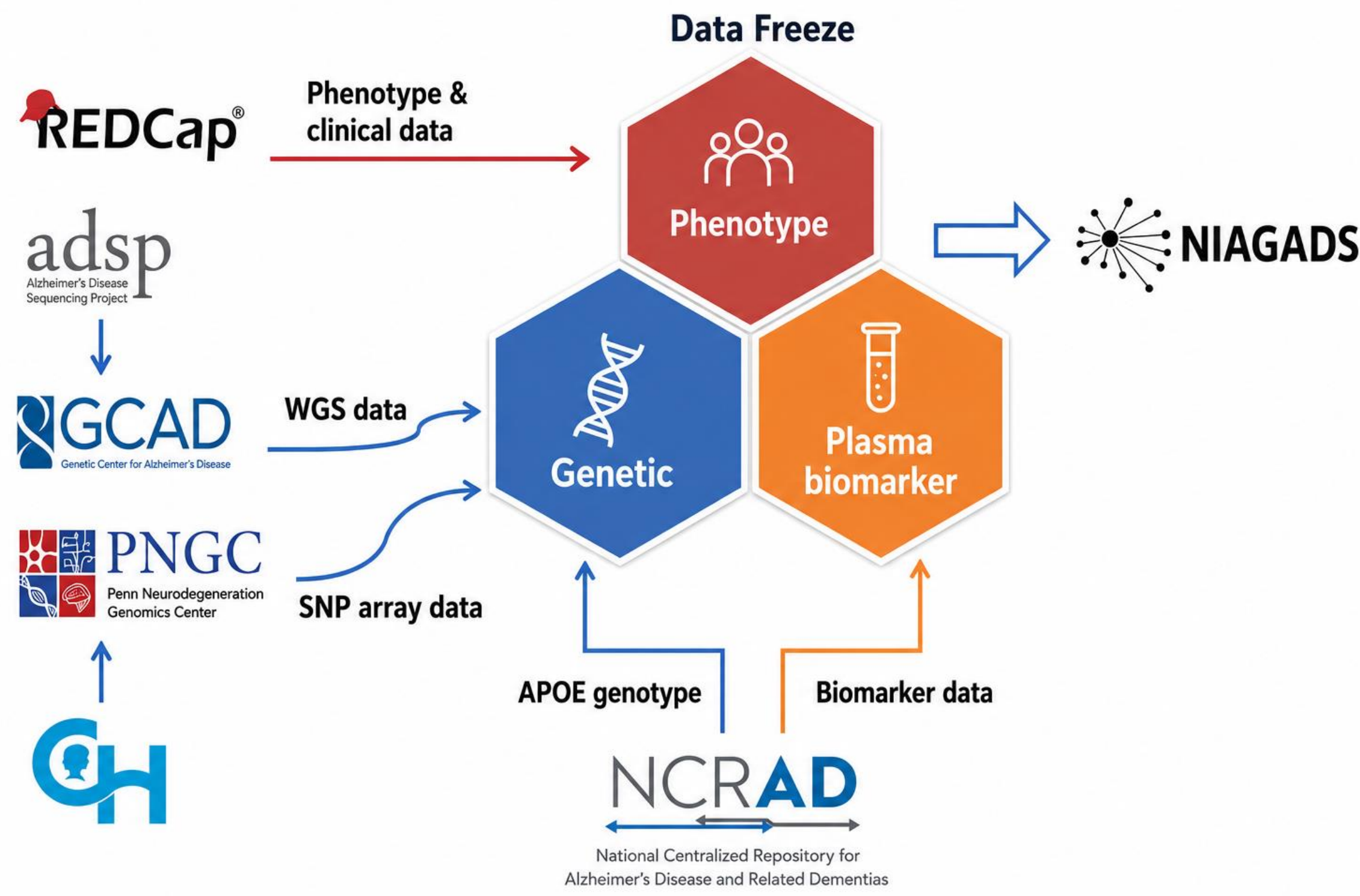
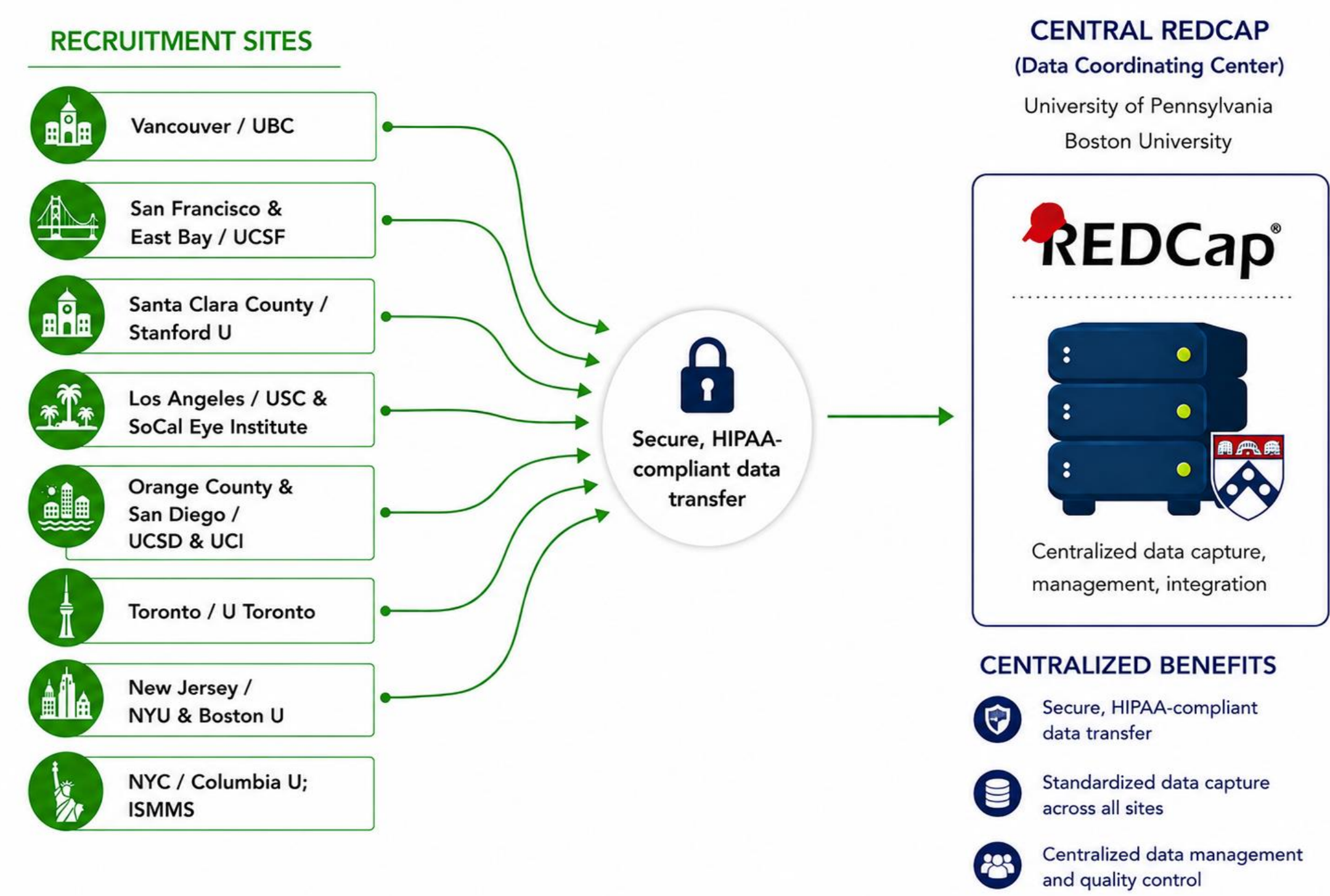
- Proteomic Data (in collaboration with NIH CRAD)

Additional Data:

- University of British Columbia CARD cohort: SNP array data and plasma biomarkers

ACAD is the 1st large dementia genetics cohort for AD among Asian Americans/Canadians

Data Collection Workflow



*WGS data will be included in ADSP data release and deposited at NIAGADS without bundling with other ACAD data components.

REDCap Features Enhancing Data Quality

- Field validation to standardize data entry formats
- Branching logic to streamline data entry and minimize errors
- Standardized missing-value codes to distinguish reasons for missing data
- Piping to dynamically reference participant information across forms
- Automated email alerts and notifications to facilitate timely communication
- Data Access Groups (DAGs) to protect site-specific participant privacy
- Audit trails to ensure data integrity and traceability

Current Phenotype Summary (N=1,632)

