NACC Session

Thursday, October 20 – 2022 Fall ADRC Meeting

Welcome

Walter Kukull, PhD

October 20 – ADRC Fall 2022

Welcome to the NACC Session!

Topic	Speaker Name
Delivering on NACC's mission and modernization	Sarah Biber, PhD
NACC's New Data Pipeline and Repository Solution: Benefits for the ADRC Program	Ben Keller, PhD
Building a novel platform to expand longitudinal COVID-19 data collection, integrate new data streams, and open the door to impactful new COVID-19 and ADRD discoveries	Sean Mooney, PhD, Melissa Lerch, PhD, Kari Stephens, PhD
Amplifying the SCAN Initiative	Sarah Biber, PhD
Progressing Towards a Digital UDS	Sean Mooney, PhD
The New NACC Directory	Laura McLeod

Delivering on NACC's Mission through Modernization

Sarah Biber, PhD

October 20 – ADRC Fall 2022

Meet the NACC Team

WALTER KUKULL, PHD
PI/Director, NACC
Professor, Epidemiology

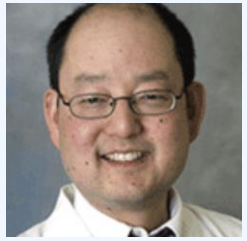
SARAH BIBER, PHD
Program Director

KARI STEPHENS, PHD
Associate Director, NACC, Associate Professor, Family Medicine

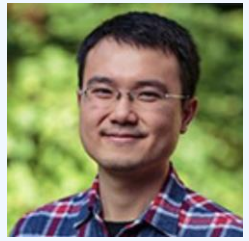
SEAN MOONEY, PHD
Associate Director, NACC Chief Research Information Officer, UW Medicine

CHARLES MOCK, MD, PHD, FACS
Associate Director, NACC Professor, Epidemiology and Surgery

KWUN CHUEN GARY CHAN, PHD
Associate Director
Professor, Biostatistics, Health Systems and Population Health



DEAN K. SHIBATA, MD
Co-investigator, NACC; Professor, Radiology



YEN-CHI CHEN, PHD
Co-investigator, NACC
Assistant Professor, Statistics

KYLE ORMSBY, PHD
Co-Investigator
Visiting Associate Professor, Mathematics

WILL LONGSTRETH, MD
Co-investigator, NACC
Professor, Neurology

BEN KELLER, PHD
Software Engineer 3

CHANDIMA HEWA-ADUNGODAGE, PHD
Software Engineer 3

ZACH STARK, BBA
Software Engineer 3

LAURA MCLEOD
REDCap Developer

JOYLEE WU
Database Administrator

JANENE HUBBARD, BS, Research Consultant

BRENDAN SMITH
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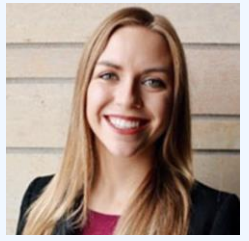

HANNAH ROSENTRETER
Manager of Special Projects

BRITTANY HALE
Project Manager

CLAIR CASSIDY
Admin Coordinator

MELISSA LERCH, PHD
Research Manager

JESSICA CULHANE
Research Scientist 3

KATHRYNN GAUTHREAUX
Research Scientist 3

EUGENE LIN, PHD
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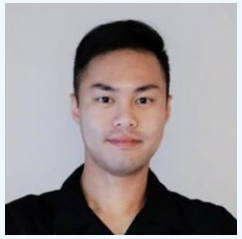

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Post-Doc

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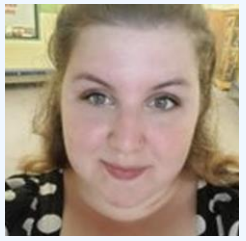
AMY YOUNG
Public Information Specialist



AILEEN IDA, MS
Communication Specialist

ADRC Fall Meeting Organizers!

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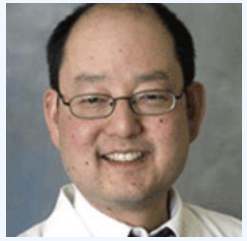

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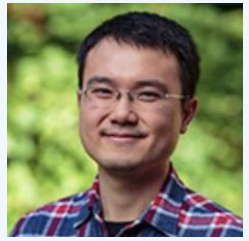

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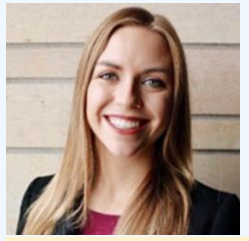

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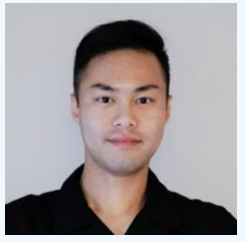

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Overview of NACC's Expanded Mission and Role

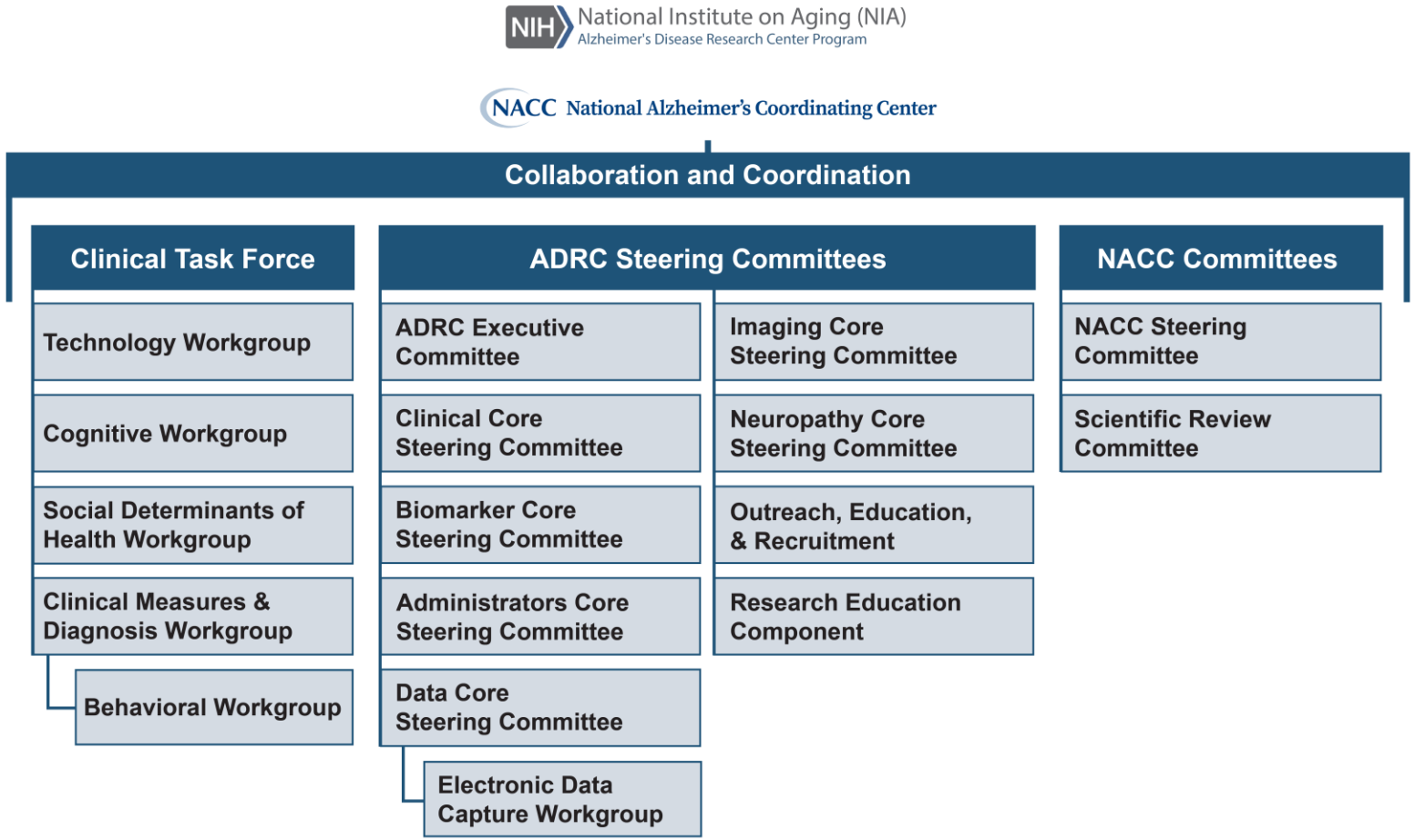
NACC serves as the data, collaboration, and communication hub for NIA's ADRC Program

Data

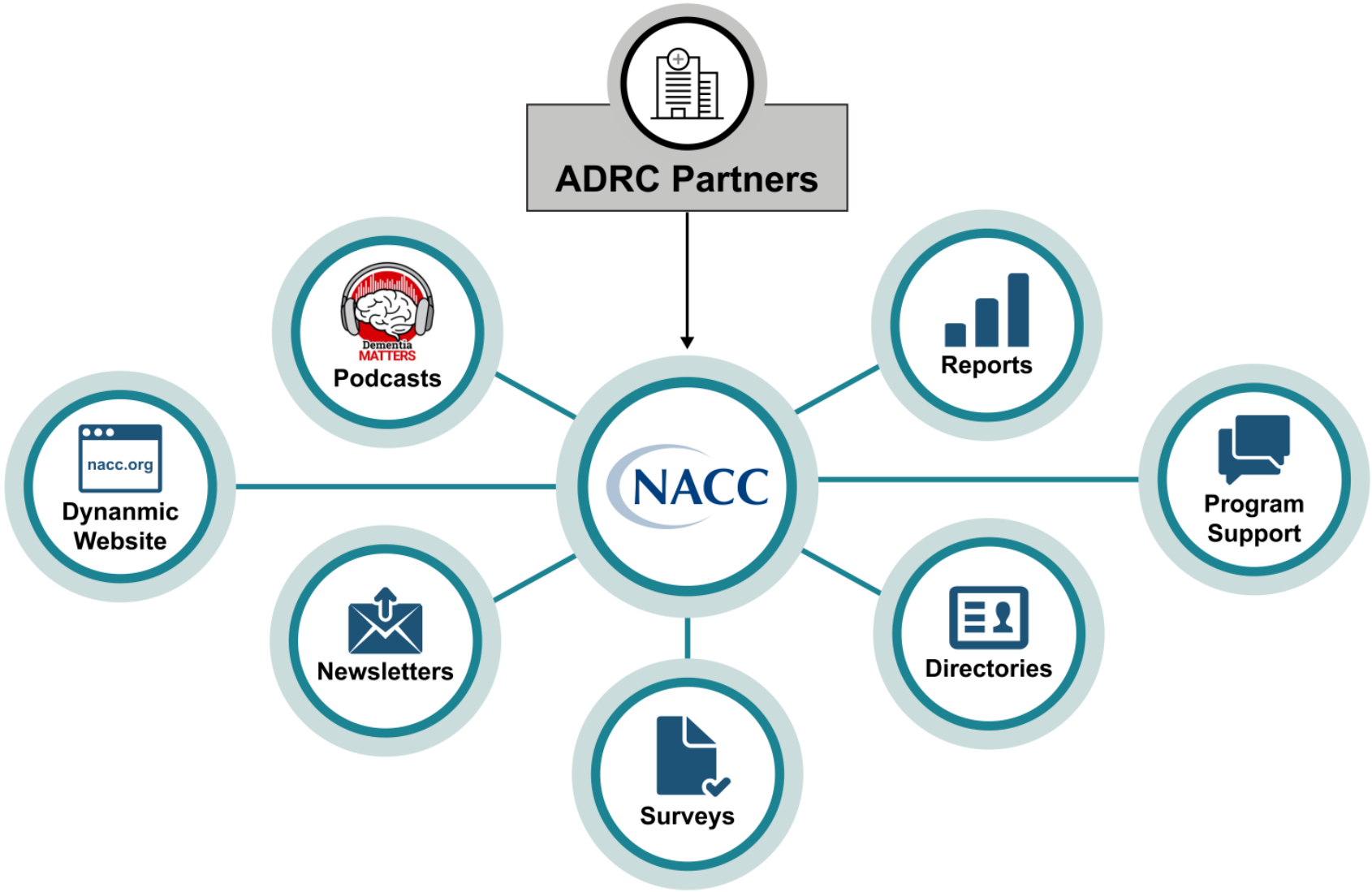
Communication & Collaboration

NACC Communication and Collaboration Hub

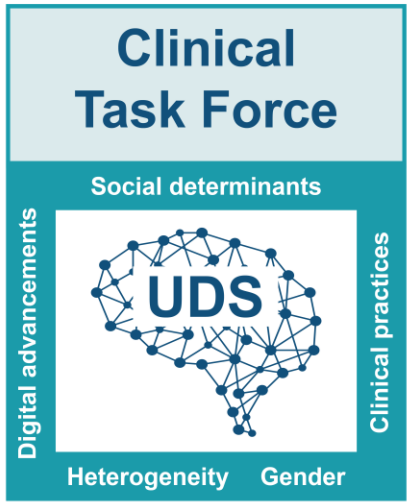
- Program Support
- Surveys
- NACC Directory
- Reports
- Newsletter
- Dynamic Website



NACC Communication and Collaboration Hub



UDSv4 Transition: Content Update



Updated UDS Content

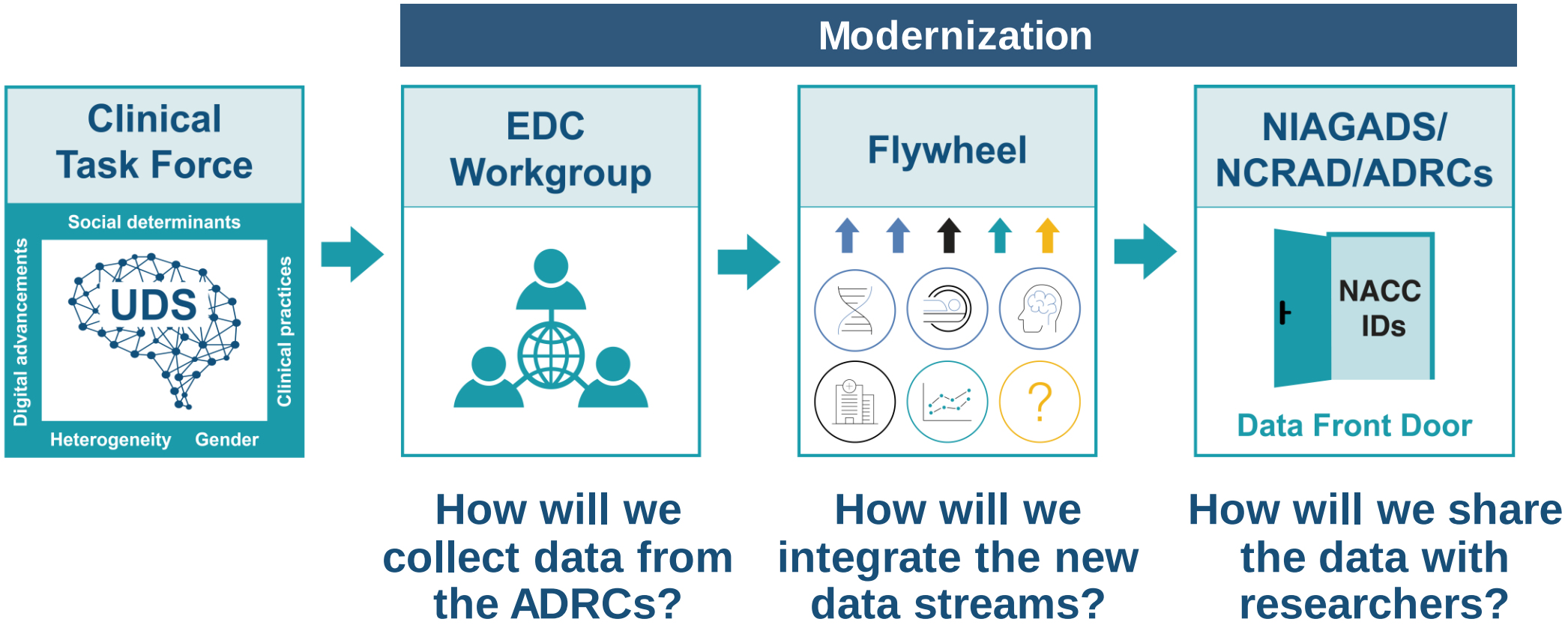
CTF Status of the UDSv4 Forms Content (IVP)

Approved by CTF	Under Review by CTF	Pending Content
• Form B1	• **Form A1a: SDOH**	• **Form A1: SCD**
• **Form B3: UPDRS**	• **Form A2: SCD**	• Form A4
• Form B4 *	• Form A3	• Form C2
• Form B5 *	• **Form A4a: AD-Specific Drugs**	• Form Z1X
• Form B6 *	• Form A5/D2	
• Form B7 *	• **Form B9: MBI, SCD**	
• Form B8	• **Form D1a: MBI**	
	• Form D1b	
* *No changes from UDSv3*		

Virtual and in-person versions of each form are being developed

Learn more at the CTF Session!

Aligning with NIH's Data Science Strategy



How will we collect data from the ADRCs?

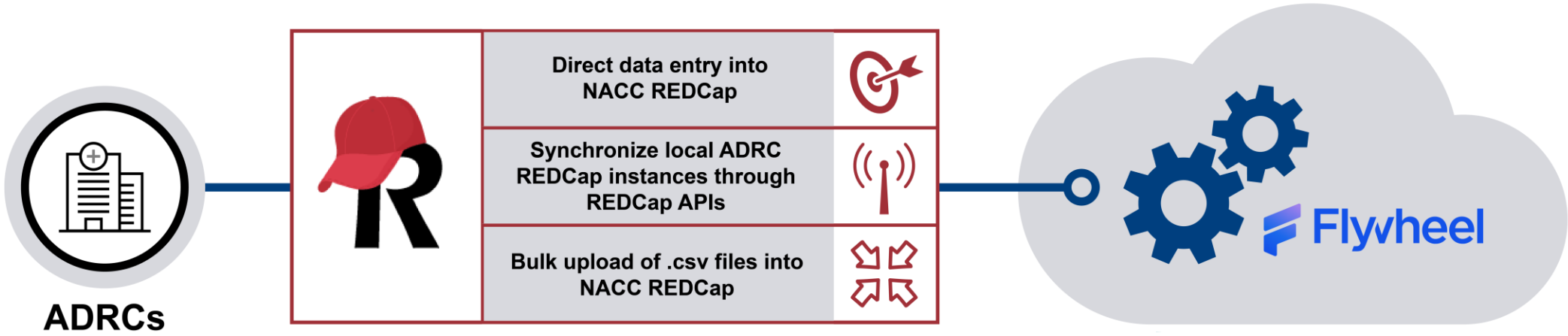
How will we integrate the new data streams?

How will we share the data with researchers?

How will we collect data from the ADRCs?

How Will We Collect Data From ADRCs?

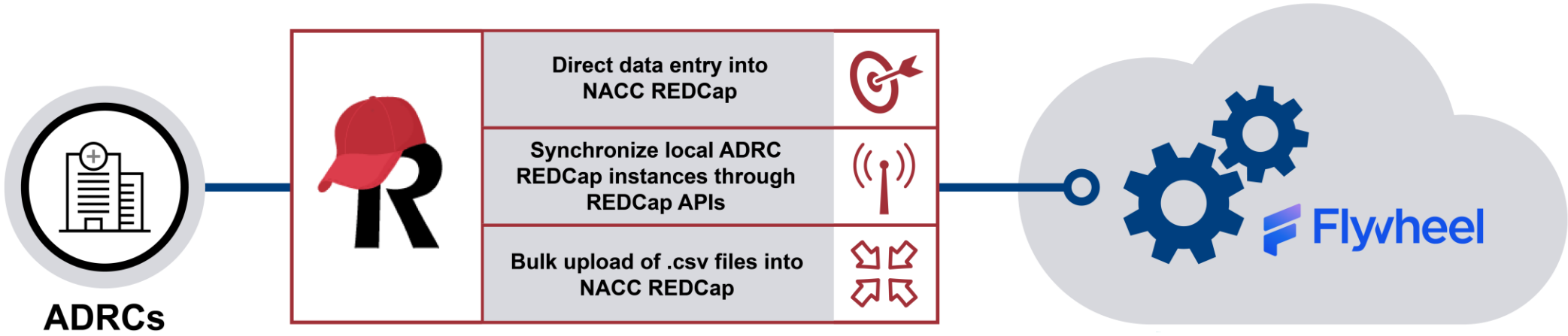
Modern Electronic Data Submission Interface



We still have PDFs!

How Will We Collect Data From ADRCs?

Modern Electronic Data Submission Interface



We still have PDFs!

Forms can be used by researchers and clinicians anywhere in the world on any device

How Will We Collect Data From ADRCs?

Electronic Data Capture Workgroup:

- Launched January 24th, 2022 in collaboration with the Data Core Steering Committee
- 75 people across 29 ADRCs that are collaborating across three subgroups
- 1,500+ people hours and counting

Electronic Data Capture Workgroup Progress

Development

- **Streamlined and standardized the REDCap submission process, quality checks, and variable names**
- **Established the infrastructure for longitudinal data collection**

Requirements

- **Determined the common UDS data flow used across 29 participating ADRCs:** Survey to be sent to 37 all ADRCs
- **Developed data management plan in alignment with NIH's data sharing policy:** Valuable for ADRCs seeking renewal
- **Summarized data quality checks for UDSv4:** To be shared with all ADRCs

Documentation and Training

- **Built a curated directory of valuable REDCap resources**
- **Developed NACC-specific REDCap SOPs to facilitate ADRCs submitting UDSv4 data to NACC**
- **Designing a webpage to make resources accessible to the ADRCs**

Electronic Data Capture Workgroup

Thank you EDC workgroup team members!

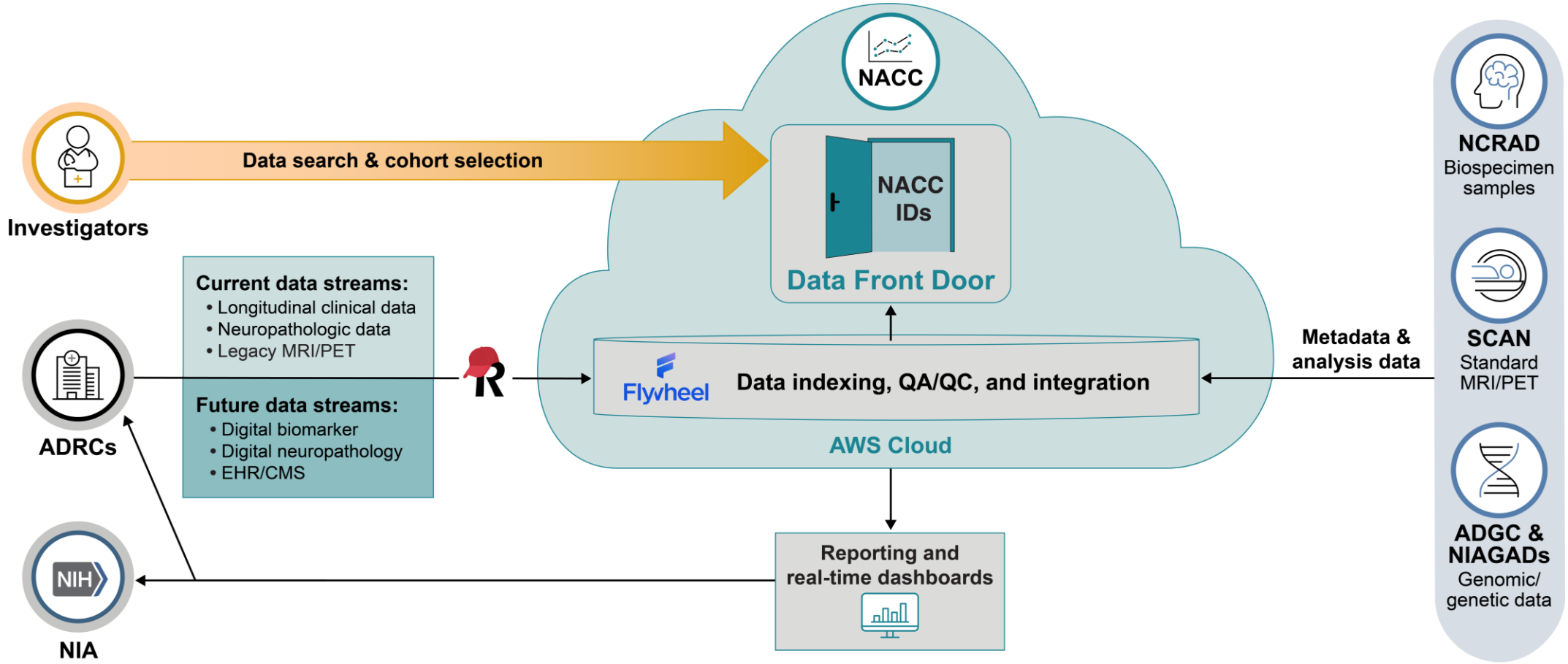
- **Co-Leads:** Sudeshna Das, PhD and Sarah Biber, PhD
- **Development Co-Leads:** Jon Reader, MS, and Ben Keller, PhD
- **Requirements Co-Leads:** Meredith Zozus, PhD and Kari Stephens, PhD
- **Documentation and Training Co-Leads:** Sarah Gothard, BS, Leah Reuter, BA, and Laura McLeod, BBA
- **Coordination:** Clair Cassidy

Scan QR code and fill out the form to join!

naccdata.org/edc

How will we integrate new data streams?

NACC is on a Mission to Modernize Data Collection, Integration, and Sharing to Advance Alzheimer's Research



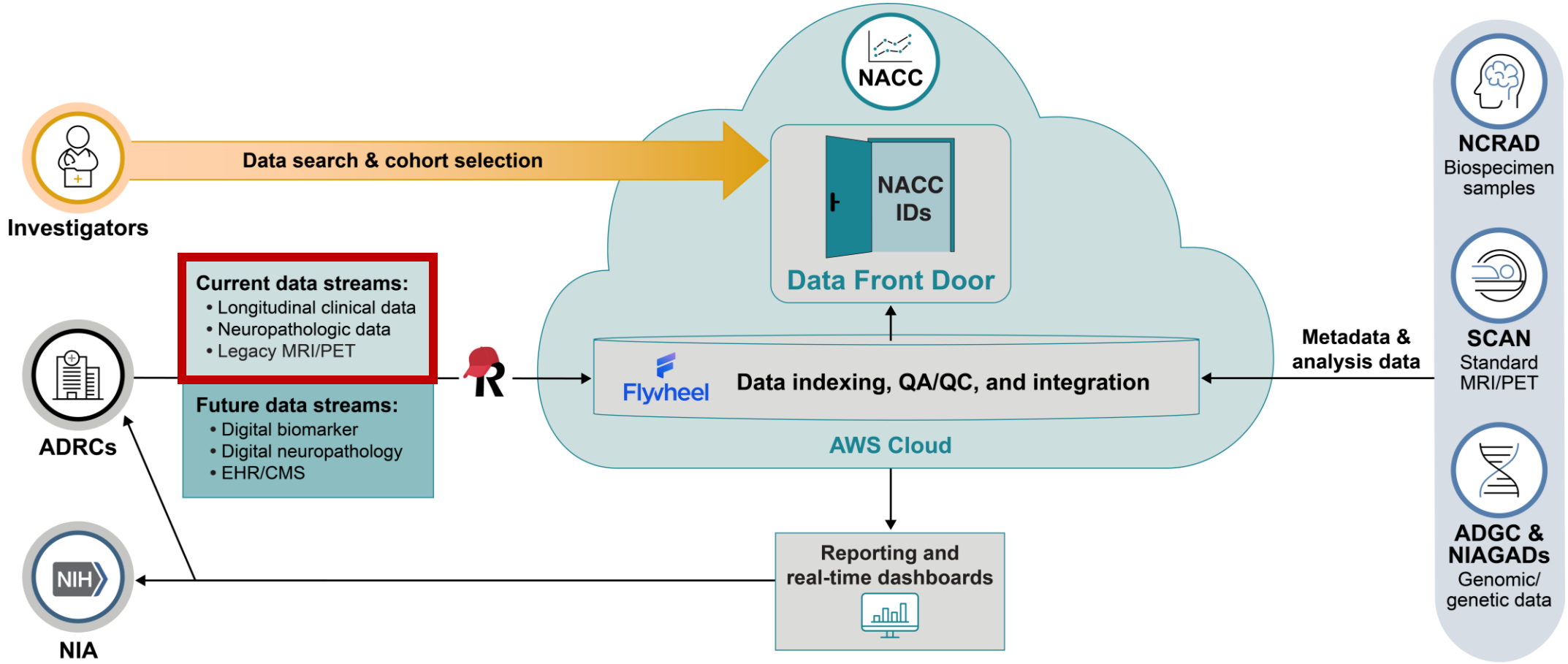
How Will We Integrate the Data?

Flywheel Will Integrate and Organize All ADRC Data Within our AWS Cloud and Provide Secure Sandboxes for Collaborative Data Analysis

Learn more from Ben Keller, PhD in the next talk!

NACC's New Data Repository and Pipeline Solution: Benefits for the ADRC Program

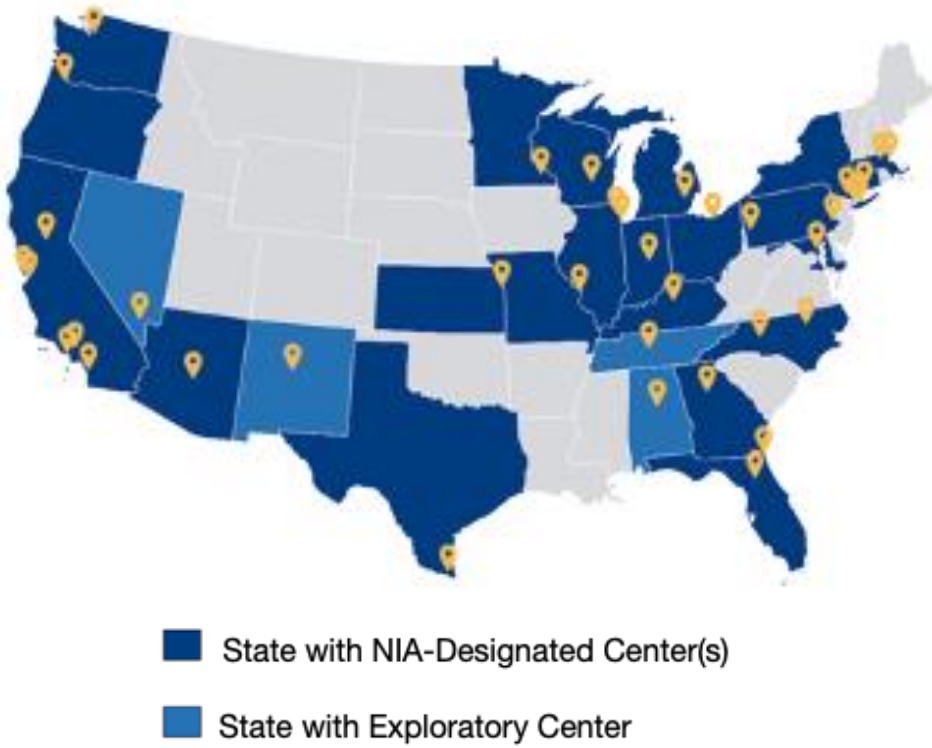
Modern Integration of Data from ADRCs and Partners



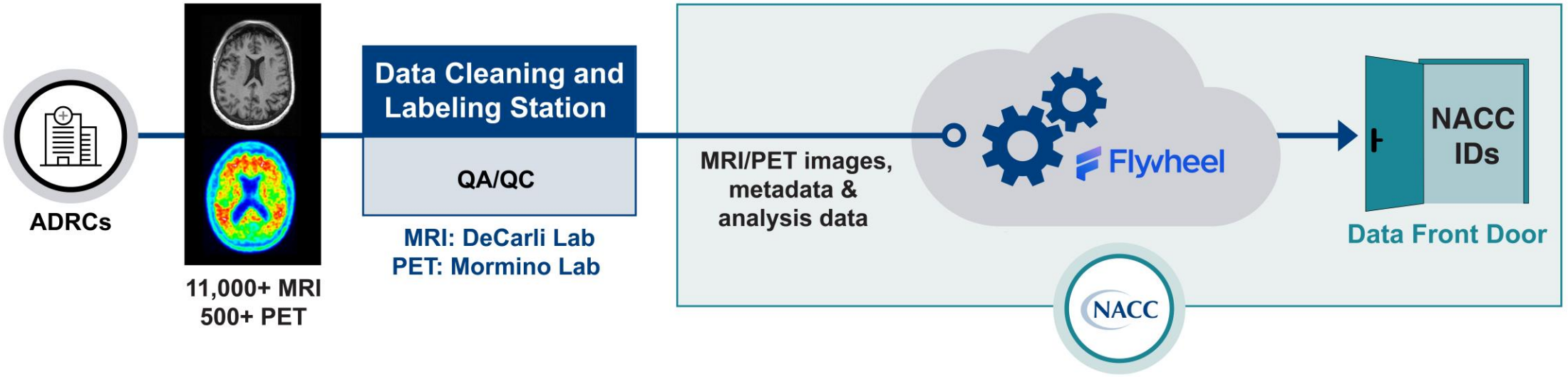
Longitudinal Clinical and Neuropathologic Data

UDS Data Impact

46,000+	Participants with data at NACC (16,000+ active participants)
172,000+	Clinical assessments (1-17 visits per participant; median =3)
7,230+	Neuropathology datasets (From 58% of deceased participants)
1,100+	Published studies using NACC data
37	ADRCs are contributing data (Across 26 states, +2 provisional ADRCs)



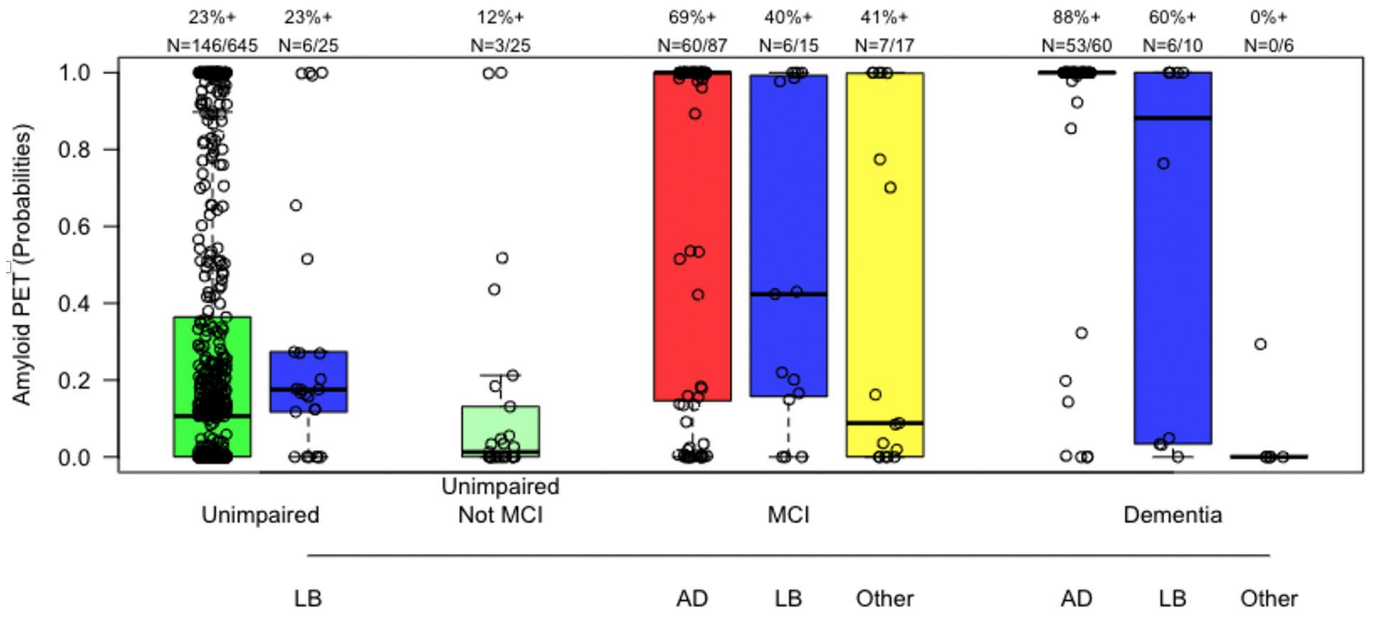
Legacy MRI and PET Data



SCAN Amyloid Legacy Project

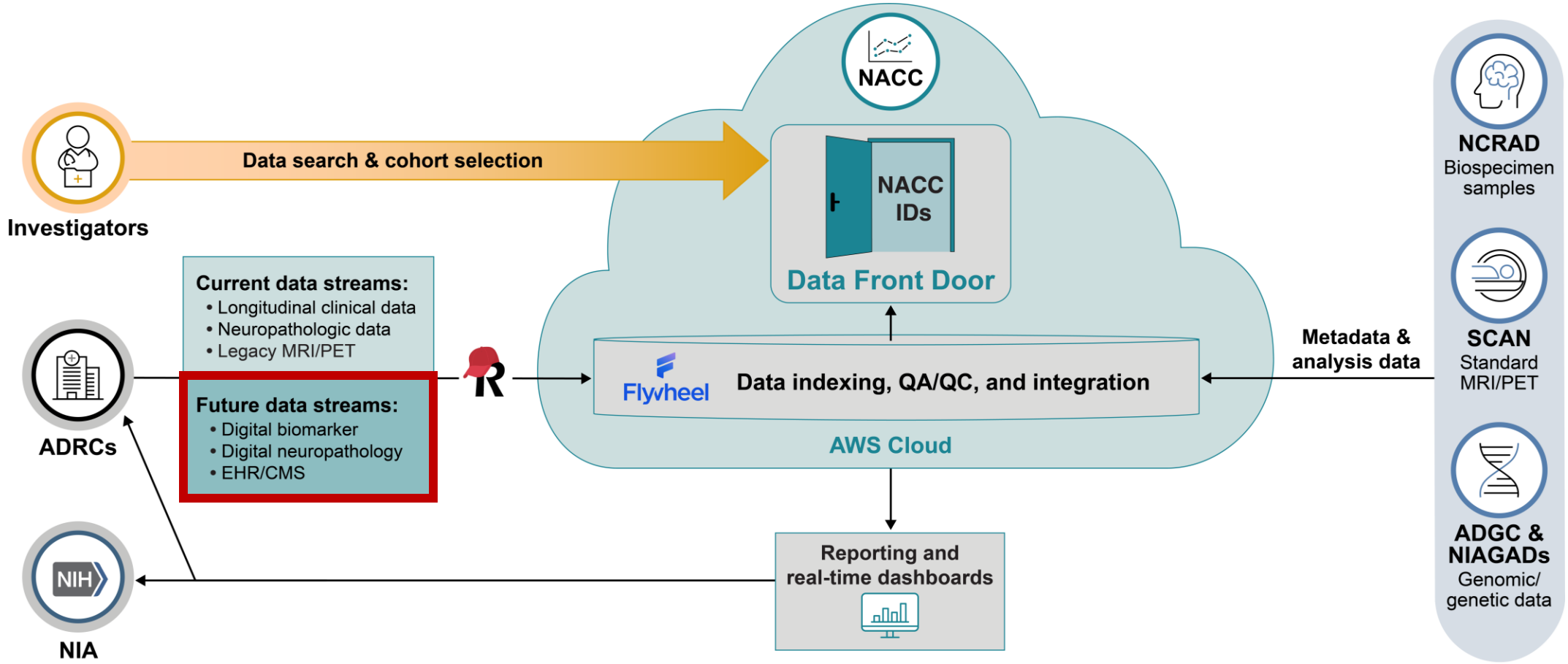
- **918 Amyloid PET Scans from Unique NACC participants Analyzed**
- **Contributing sites:**
  - Cleveland ADRC
  - Northwestern University ADRC
  - Stanford University ARDC
  - University of California Davis ADRC
  - University of Florida ADRC
  - University of Kansas ADRC
  - University of Wisconsin ADRC
- **Will release curated images to LONI/NACC, extracted variables (SUVRs, CLs) to NACC**

	Primary Etiology							
	AD	Lewy Bodies/ PD	FTLD	Vascular	Neurologic/ Genetic	Psychiatric	Toxic/ Metabolic	NA, Not Impaired
Dementia	60	10	4	1	1	1	0	0
Impairment-Not-MCI	3	0	0	1	12	8	1	0
MCI	87	15	1	8	27	8	0	0
Unimpaired	0	25	0	0	0	0	0	645



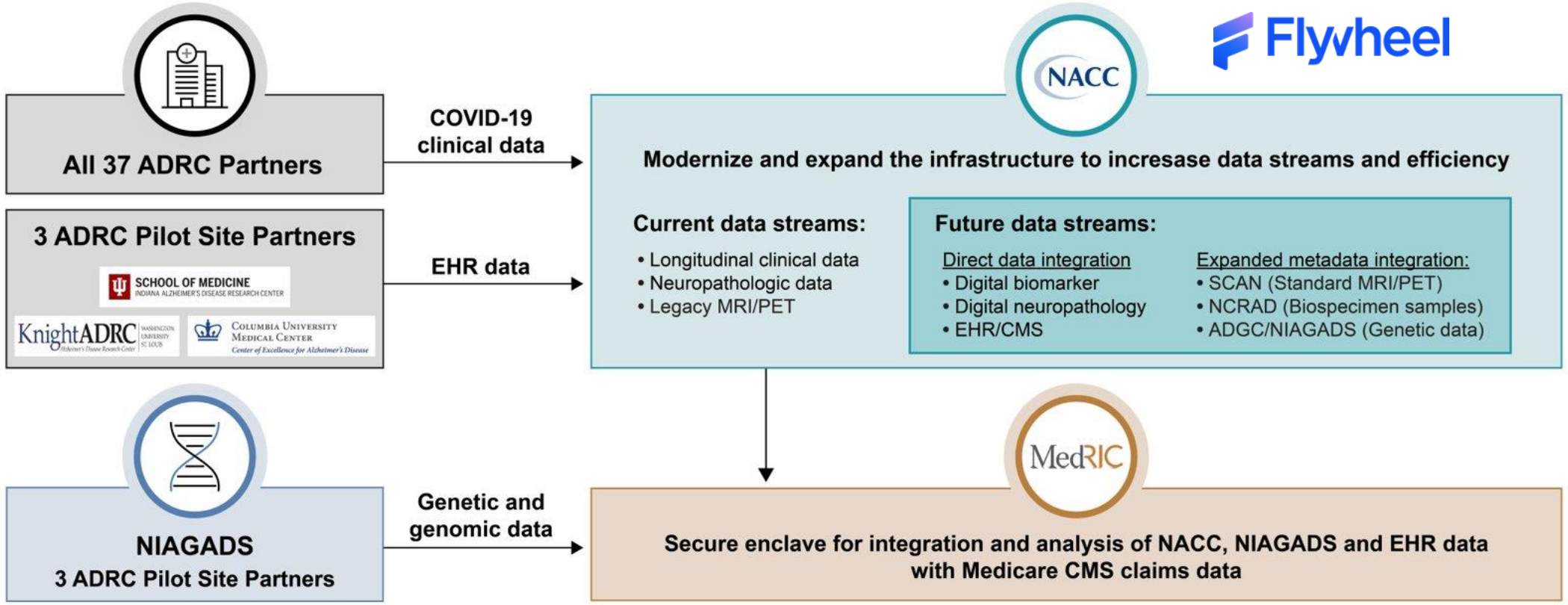
Email Beth Mormino, PhD to contribute data: bmormino@stanford.edu

Modern Integration of Data from ADRCs and Partners



COVID-19 Admin Supplement: EHR and Claims Data

NACC is establishing a platform to collect and link clinical (EHR) and claims (CMS) data with genetic data (NIAGADS/ADSP) and phenotypic data (NACC) for consented ADRC participants.



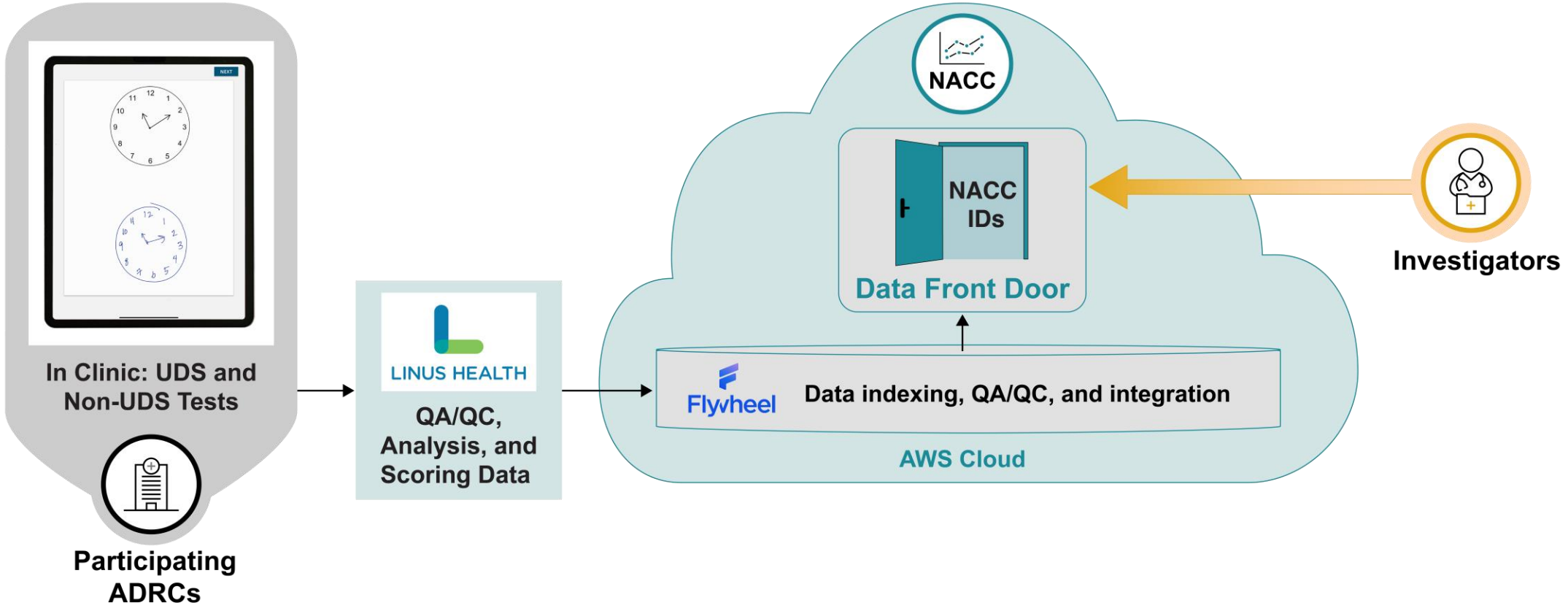
COVID-19 Admin Supplement: EHR and Claims Data

Learn more in the NACC Session later today!

Building a novel platform to expand longitudinal COVID-19 data collection, integrate new data streams, and open the door to impactful new COVID-19 and ADRD discoveries.

Kari Stephens, PhD, Sean Mooney, PhD and Melissa Lerch, PhD (NACC)

Administrative Supplement: Digital Data and Phenotyping



Collaborators: Rhoda Au, PhD and Allan Levey, MD, PhD

Administrative Supplement: Digital Data and Phenotyping

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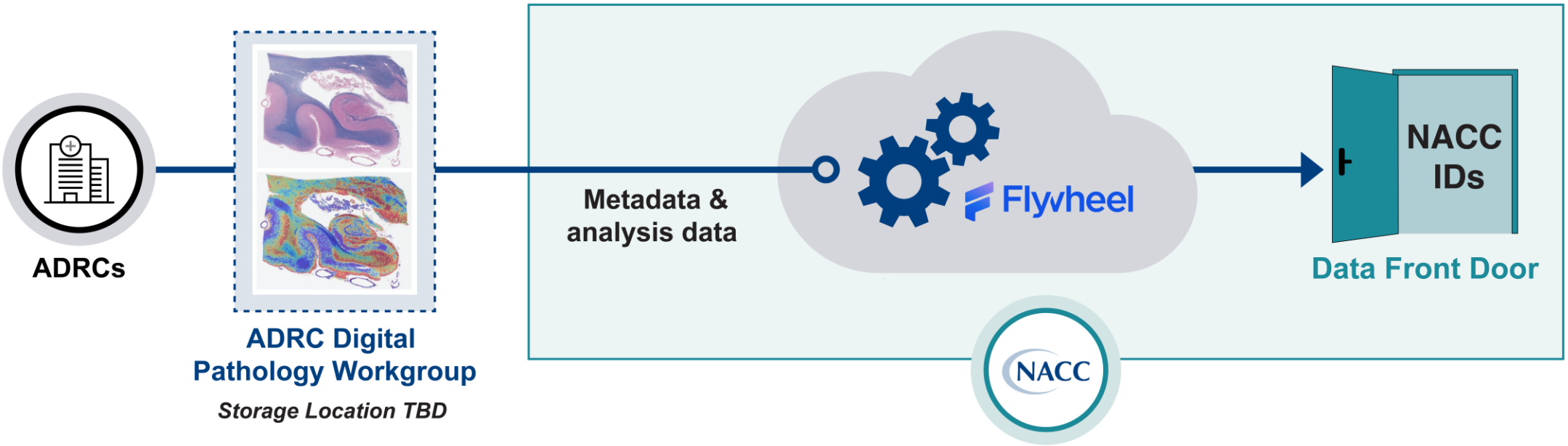
Progressing Towards a Digital UDS

Sean Mooney, PhD

Digital Neuropathology Data



McKenzie, A.T., Marx, G.A., Koenigsberg, D. *et al.* Interpretable deep learning of myelin histopathology in age-related cognitive impairment. *acta neuropathol commun* **10**, 131 (2022). https://doi.org/10.1186/s40478-022-01425-5

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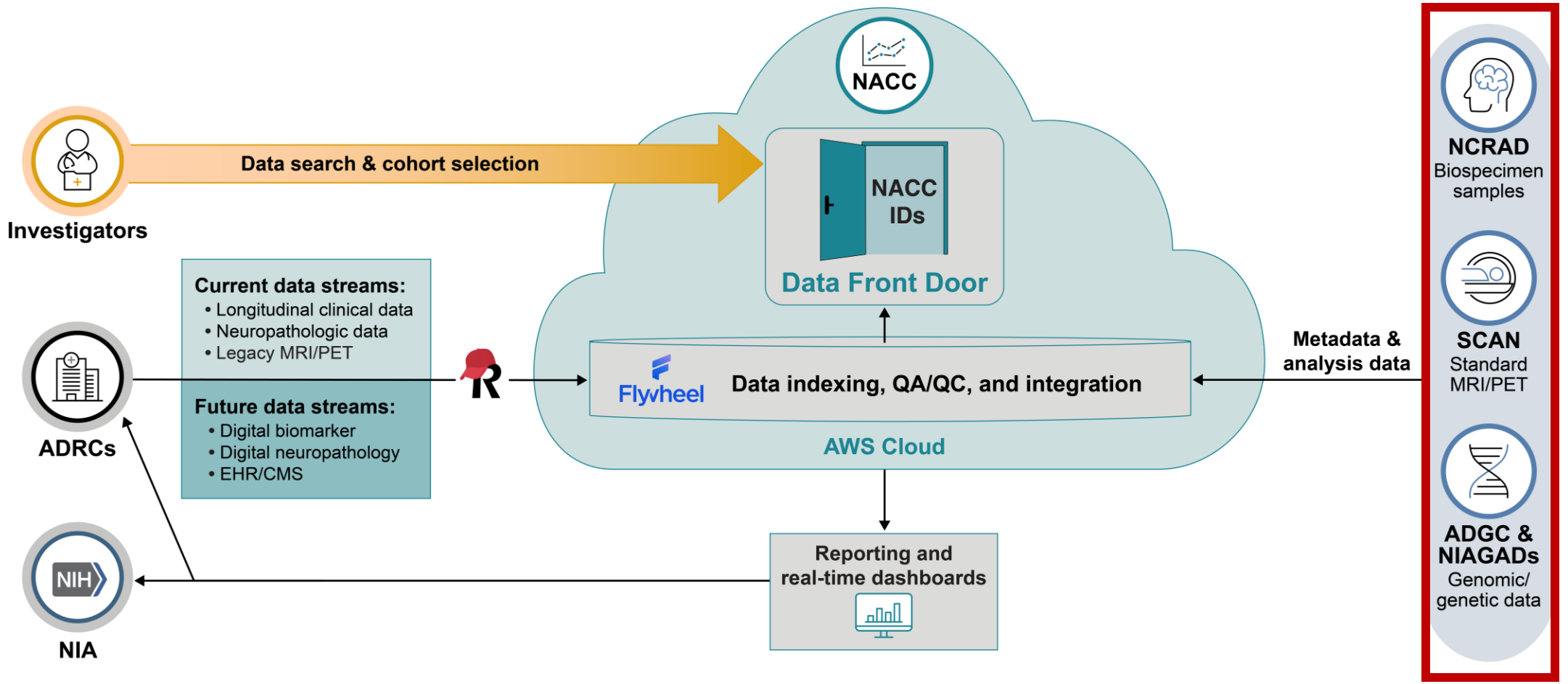
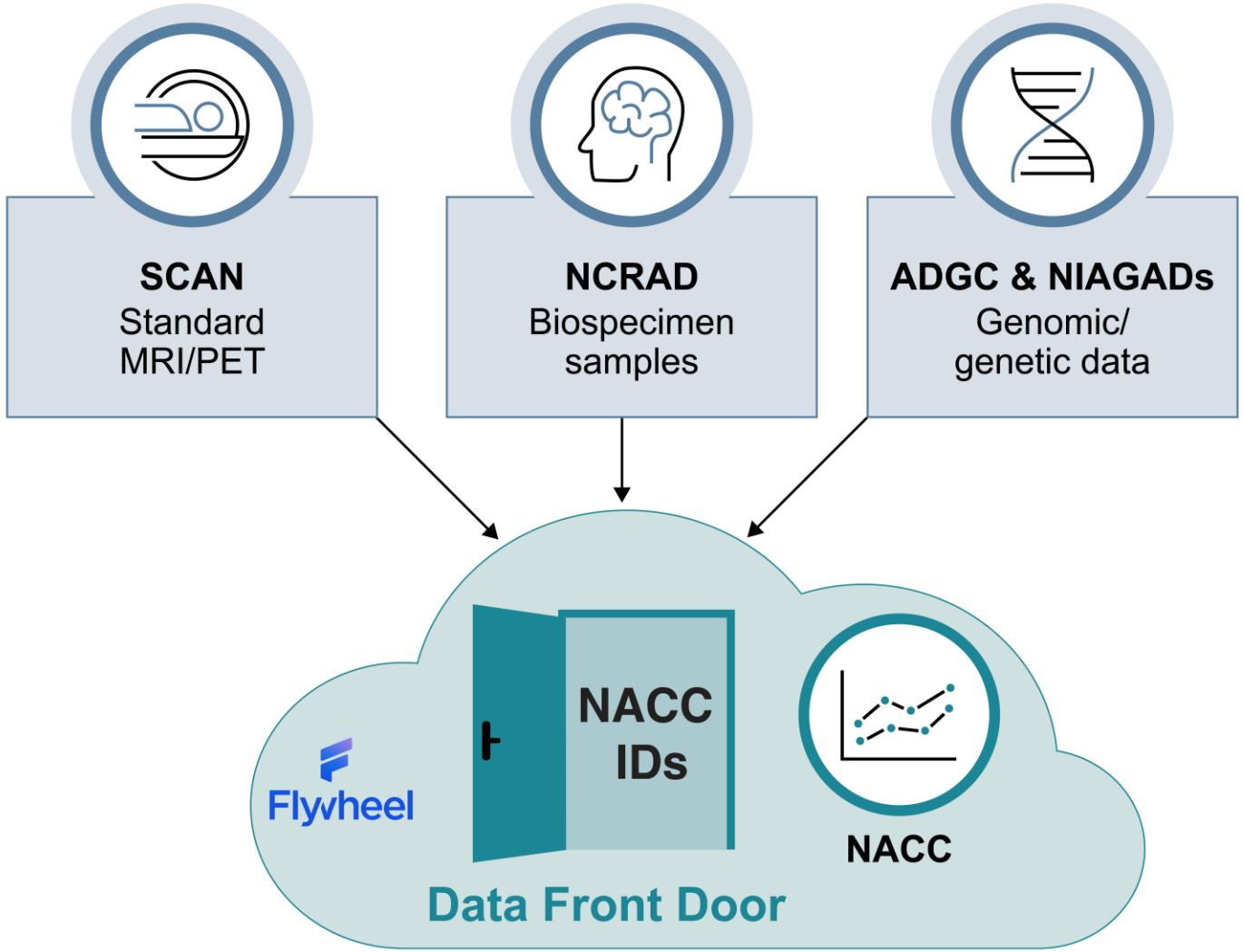
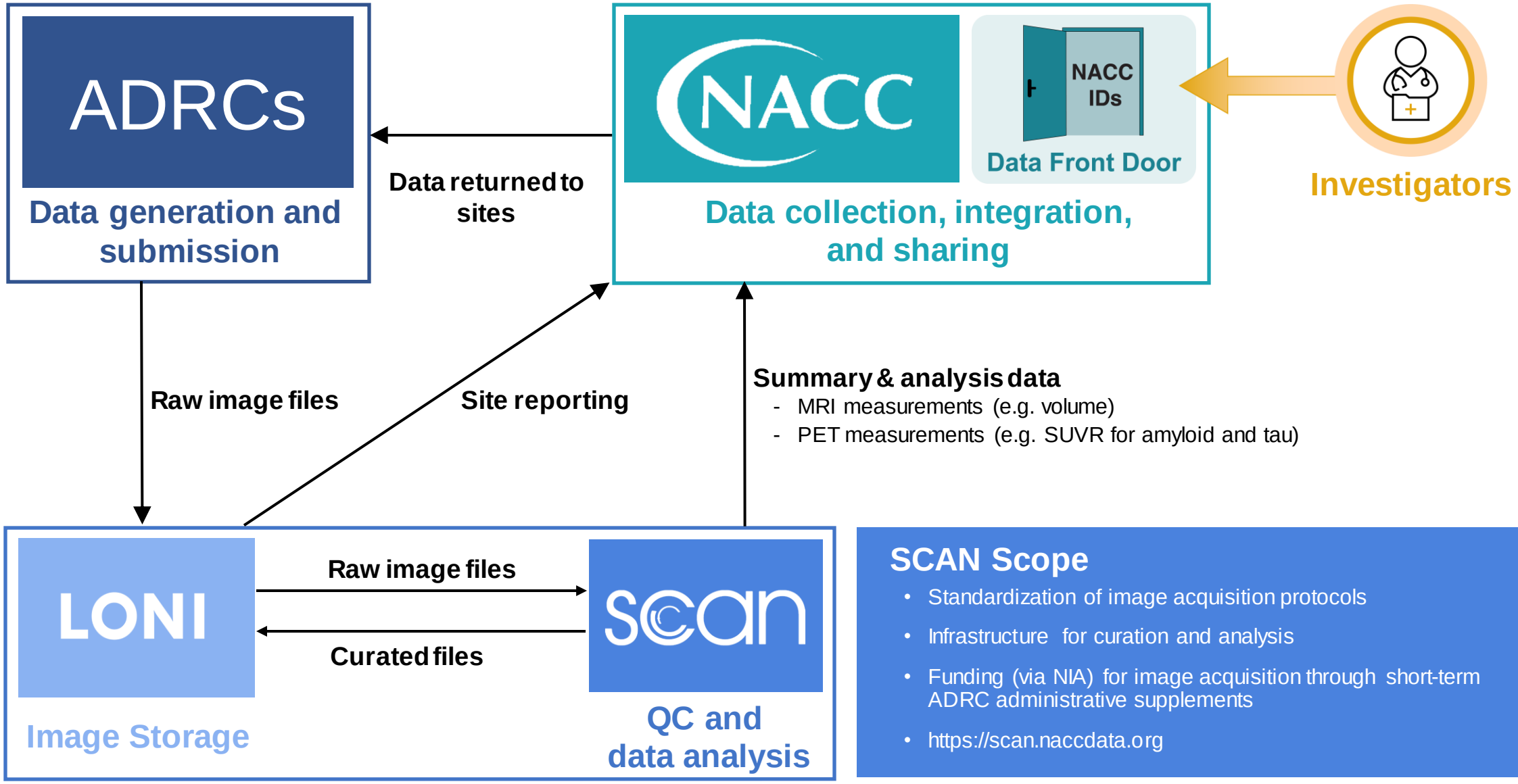


Metadata and Analysis Data from Partners



SCAN



SCAN Scope

- Standardization of image acquisition protocols
- Infrastructure for curation and analysis
- Funding (via NIA) for image acquisition through short-term ADRC administrative supplements
- https://scan.naccdata.org

SCAN: Public Dashboard

NACC

Jeevan

SCAN Dashboard

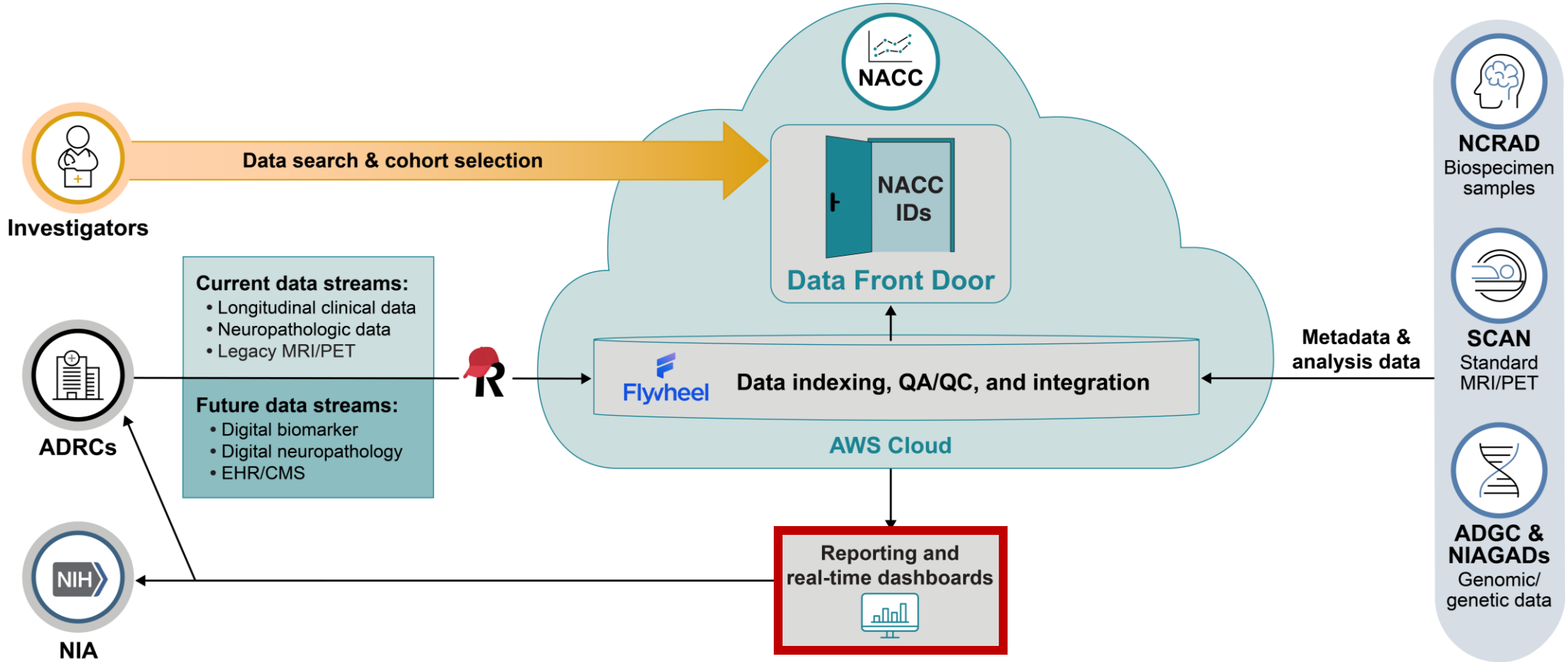
Alzheimer's Disease Research Centers

Copy CSV Show 10 entries

Search:

Institution	SCAN Readiness		SCAN Participation						Review SCAN Submissions	
				MRI			PET			
	Update your SCAN Readiness Status	Current SCAN readiness status	Total # of participants	# MRI Participants	# MRI Exams Submitted	# MRI Series Submitted	# PET Participants	# PET Scans Submitted	Review your MRI submissions to date and check QC status	Review your PET submissions to date and check QC status
TOTAL			1724	1349	1382	7767	775	1148		
AN EXAMPLE ADRC	Update	Completed Checklist	65	53	53	433	12	17	Review MRI	Review PET
Arizona ADC	Update	N/A	113	28	28	640	105	212	Review MRI	Review PET
Boston University	Update	N/A	42	42	42	629	0	0	Review MRI	Review PET
Cleveland Clinic Lerner COM - CWRU	Update	Completed Checklist	129	105	105	212	105	105	Review MRI	Review PET
Cleveland Clinic, Las Vegas	Update	N/A	37	37	37	411	0	0	Review MRI	Review PET
Columbia University	Update	N/A	62	62	65	764	0	0	Review MRI	Review PET
Emory University	Update	Completed Checklist	17	17	17	34	0	0	Review MRI	Review PET
Indiana University	Update	N/A	1	1	1	5	0	0	Review MRI	Review PET
Johns Hopkins University	Update	N/A	22	22	22	65	0	0	Review MRI	Review PET

Modern Integration of Data from ADRCs and Partners



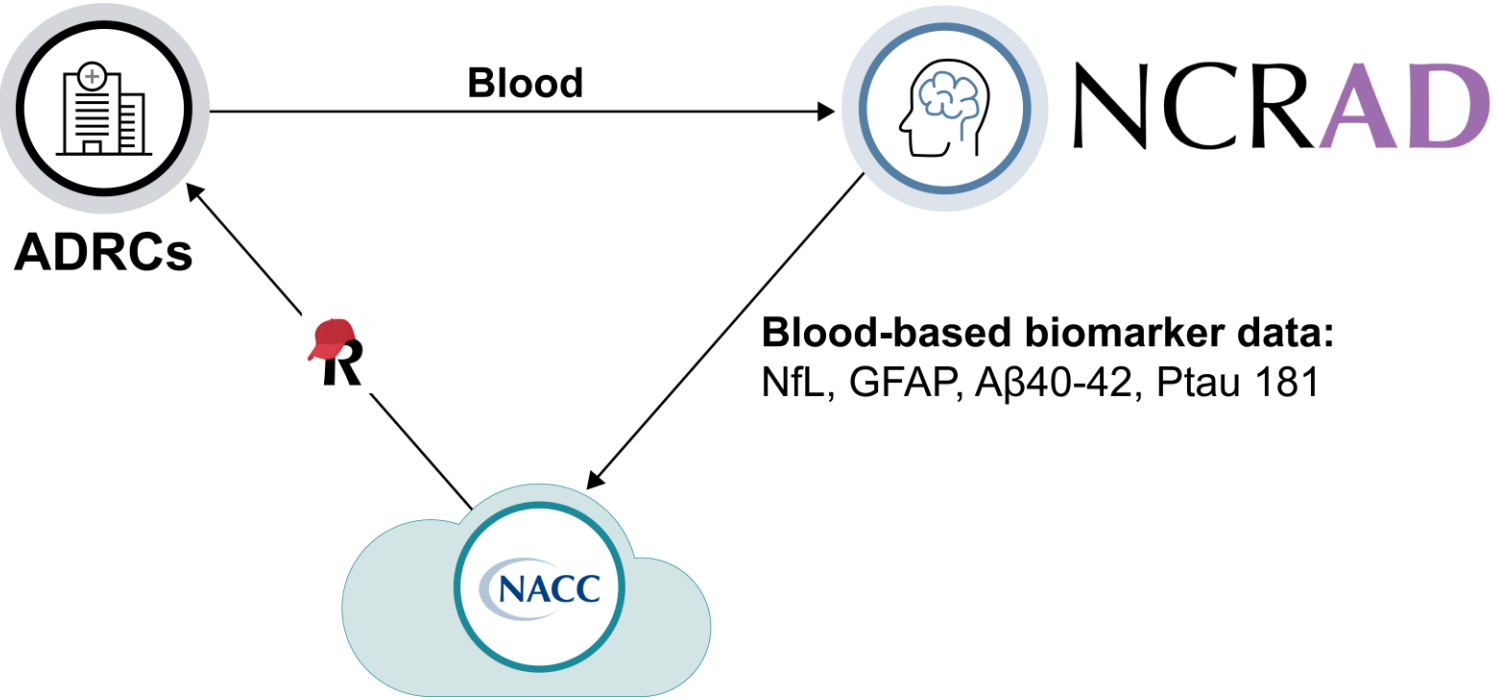
Progress on Integrating SCAN Data

Learn more in the NACC Session later today!

Amplifying SCAN

Sarah Biber, PhD

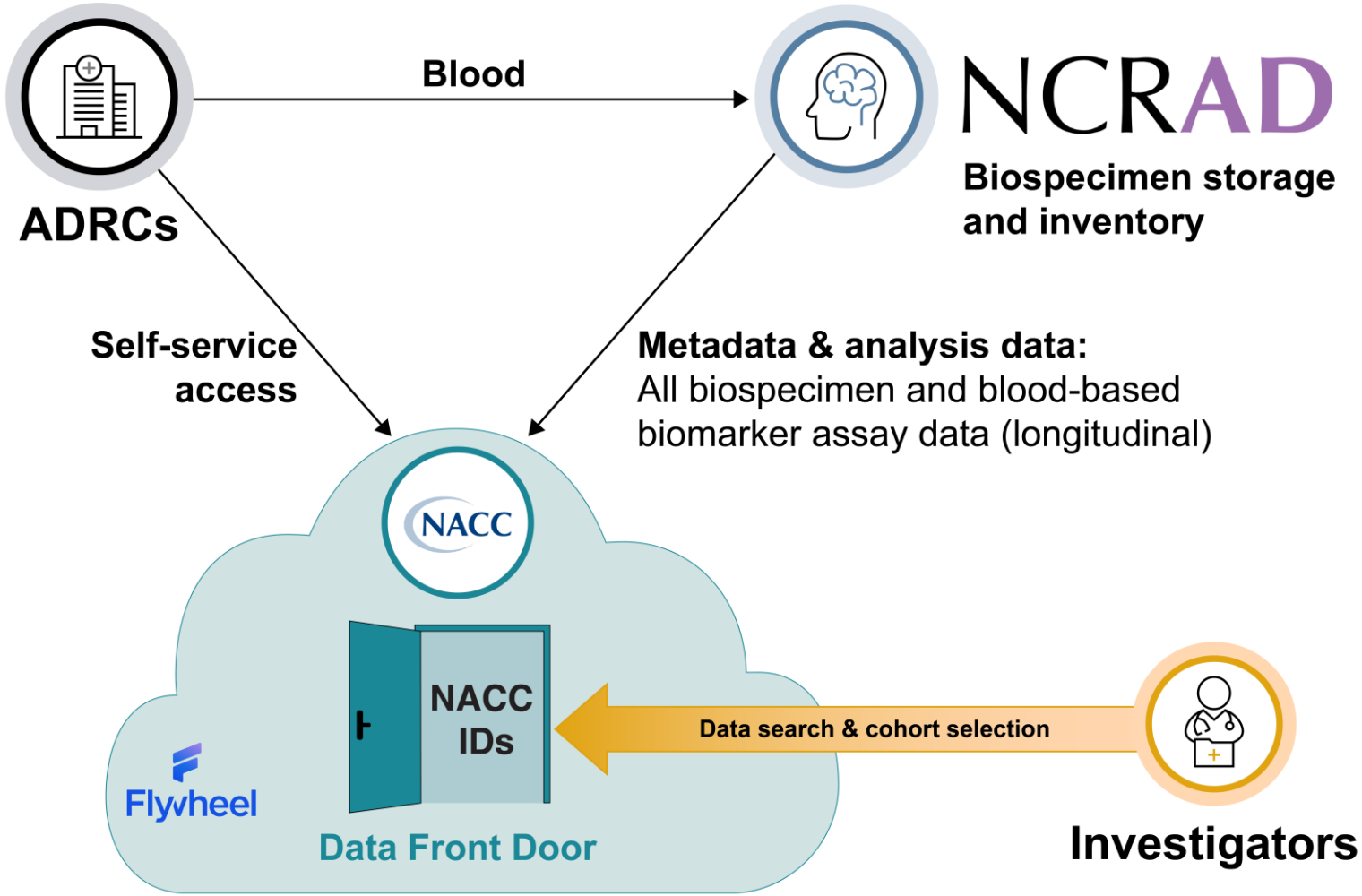
NCRAD: Biospecimen Metadata and Analysis Data - Pilot



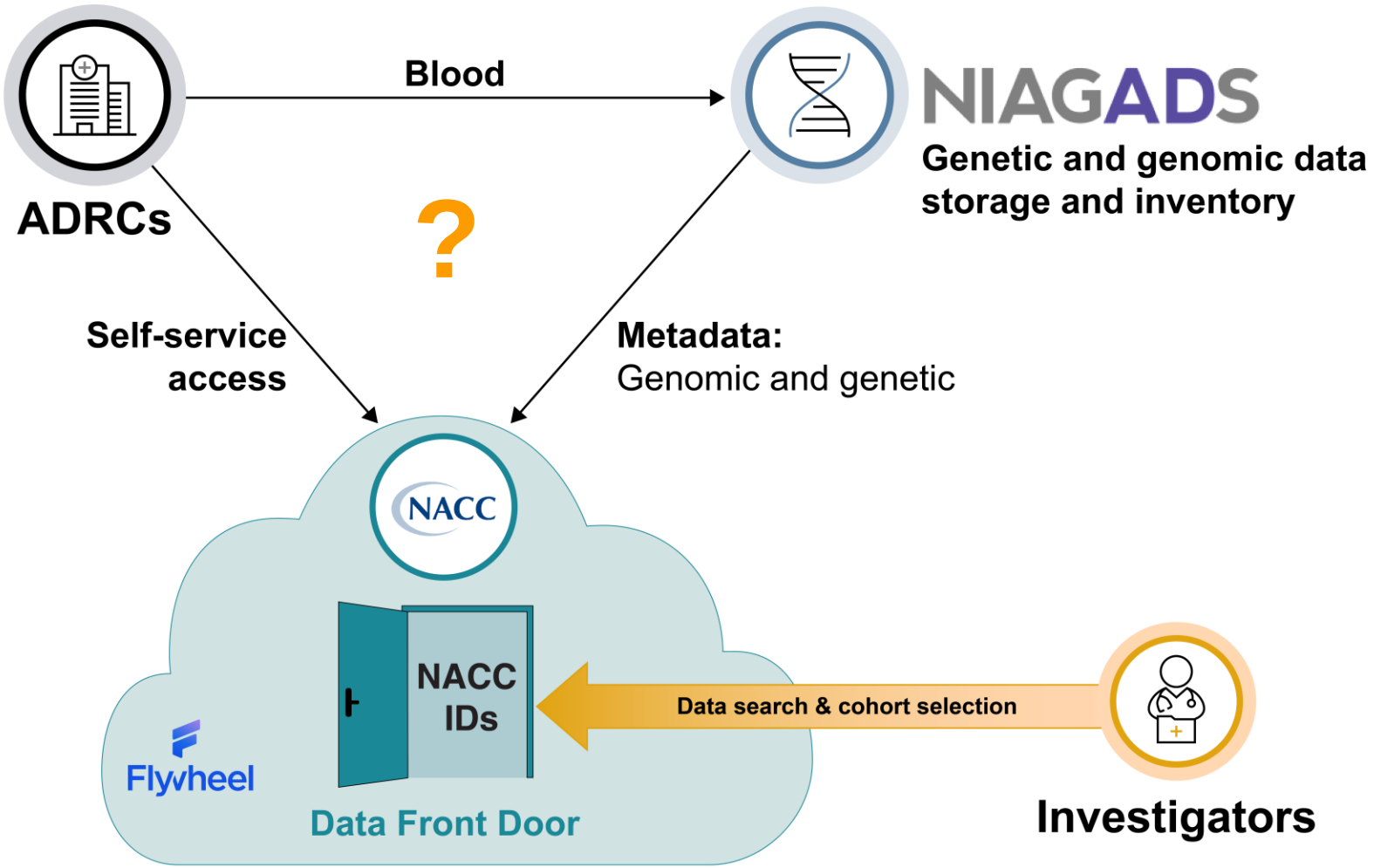
Returning blood-based biomarker assay values to the ADRCs

- Earlier this month: NACC distributed these values to the ADRCs for their participants (via REDCap)

NCRAD: Biospecimen Metadata and Analysis Data – Future Integration



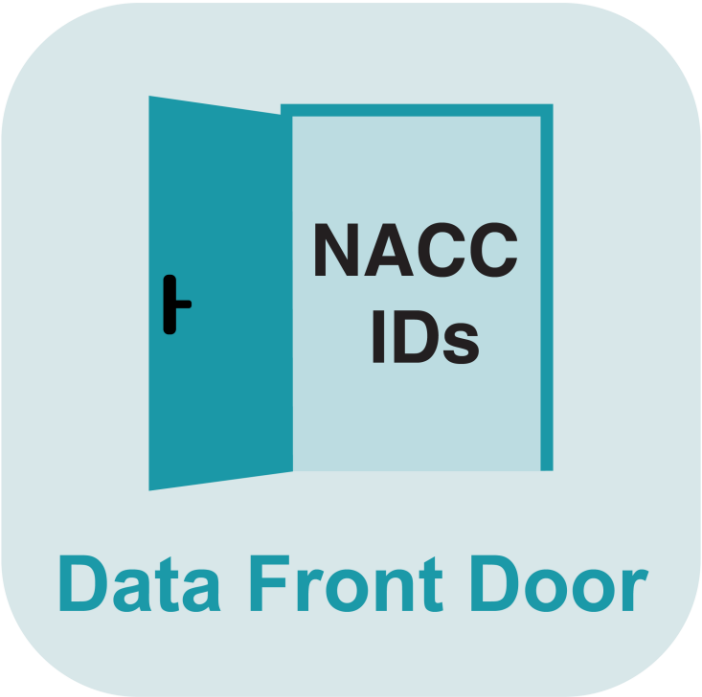
NIAGADS: Genetic and Genomic Metadata and Analysis Data



How will we share the data with researchers?

Data Front Door

We will make all ADRC data findable and accessible to researchers across the world through a one-stop-shop data search and access interface – the Data Front Door



- **Cohort-discovery enabled**
- **Easy to use**
- **Self-service**
- **Real-time**
- **Integrated**
- **MVP: Connecting Flywheel to Leaf**

Data Front Door – How to get involved!

Requirements Pilot Project

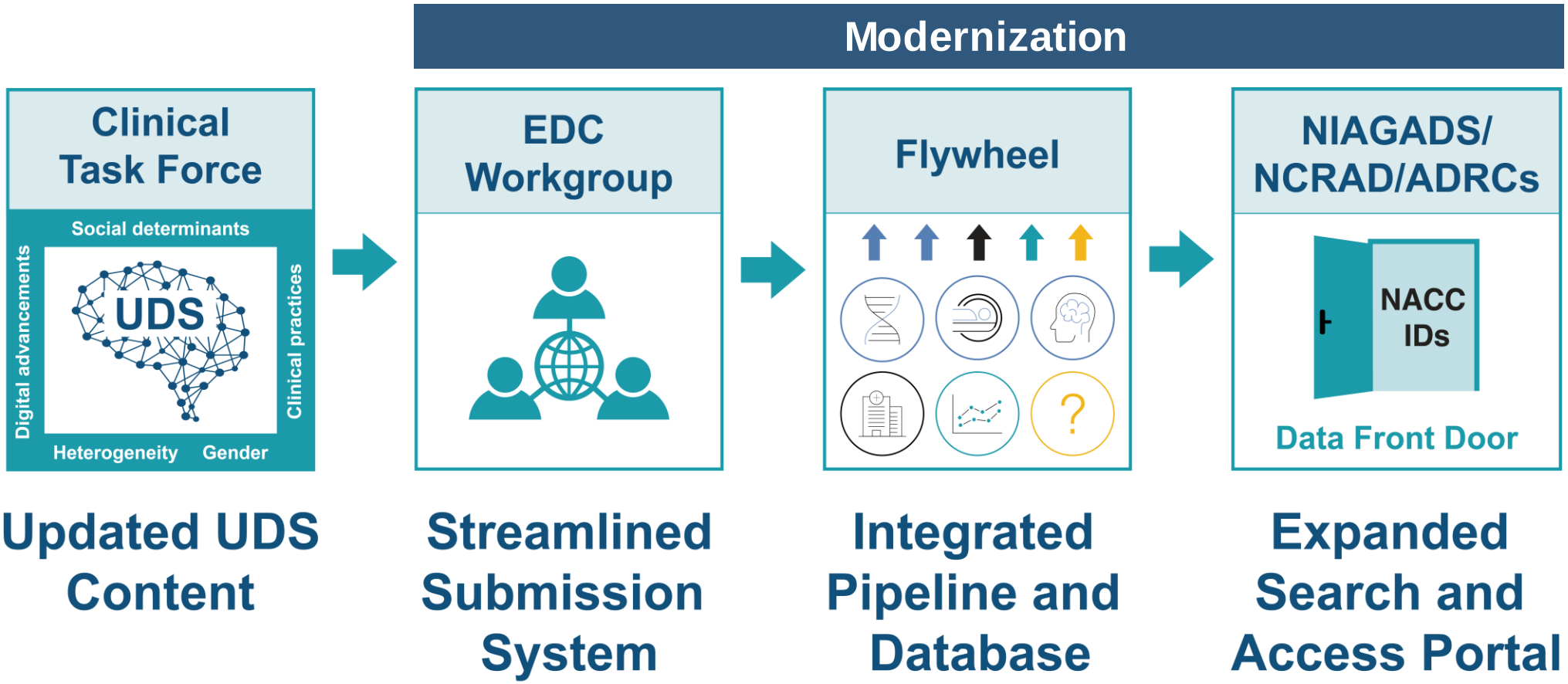
- Collaboration between NACC, NCRAD, NIAGADS, and hopefully you!

Provide input!

- Focus group sessions will be held in January 2023
- We will be soliciting nominations from ADRC Directors
- You can all sign up to participate

bit.ly/DFDFocusGroup

Aligning with NIH's Data Science Strategy



Updated UDS Content

Streamlined Submission System

Integrated Pipeline and Database

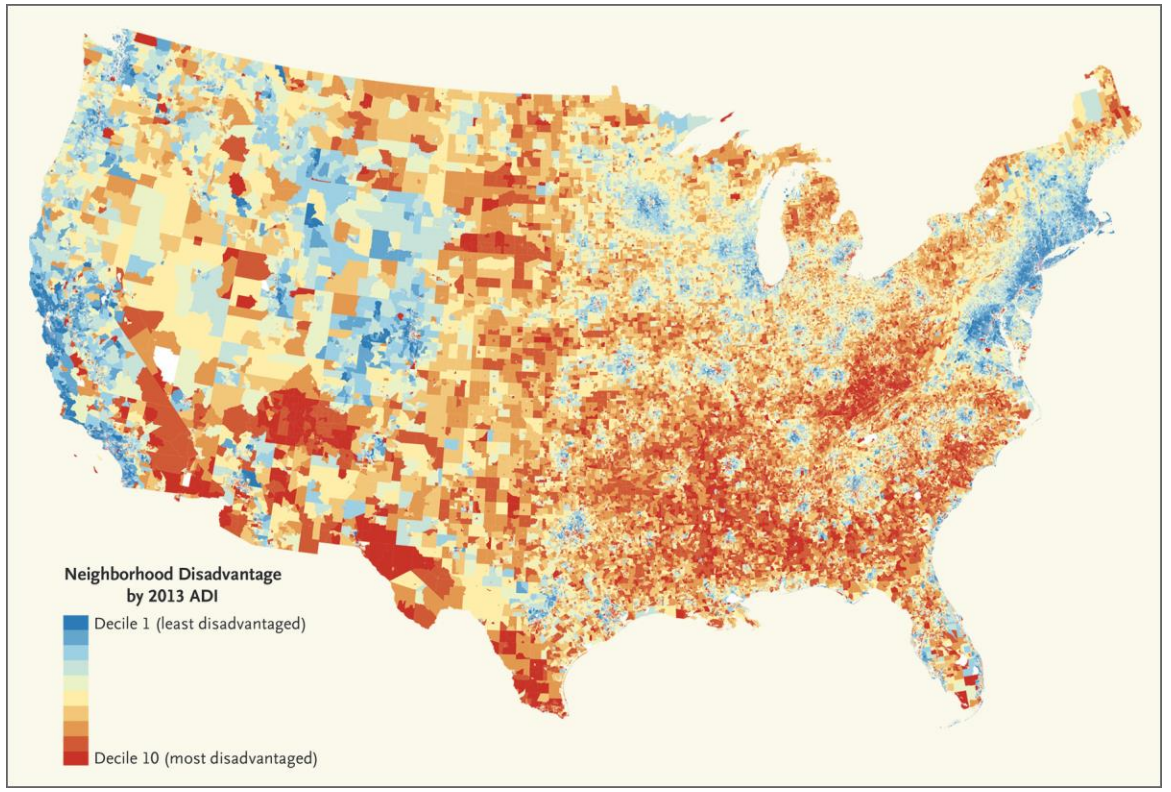
Expanded Search and Access Portal

How will we facilitate more inclusive ADRD research to advance our understanding of ADRD and health disparities?

New UDSv4 Tools to Support DEI and Disparities Research

Forms focused on the social determinants of health:

- **Mandatory (Form A1)**
  - **Area Deprivation Index** (Amy Kind)
  - **SDOH** – 11 Questions - income, access to healthcare, discrimination exposure
- **Optional**
  - **SDOH** – transportation access, financial security, social connections, access to healthcare



https://www-nejm-org.offcampus.lib.washington.edu/doi/full/10.1056/NEJMp1802313

New Tools to Help Recruit More Diverse ADRC Participants

Expanding UDSv4 Access:

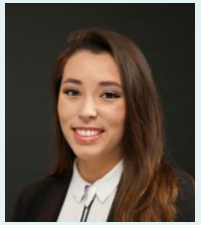
- Providing validated and harmonized multilingual cognitive assessments: **Spanish and Chinese**
- Tele-cognitive assessments

Developing and Distributing Best Practices for Responsible Management and Sharing of AI/AN Participant Data

Data Sovereignty Initiative:

- A collaboration led by the Indigenous ADRD Advisory Board

JORDAN P. LEWIS, PHD
Associate Director,
Professor
Wisconsin ADRC



L.W. YOWELUNH MCLESTER-DAVIS
PhD Candidate
Wisconsin ADRC

CAREY GLEASON, PHD. MS
Associate Professor,
Wisconsin ADRC

Understand	Understand Tribal sovereignty and laws, regulations, policies, and preferences
Engage	Engage early with Tribes when developing a data management and sharing plan, before research begins, and continue throughout research
Establish	Establish mutually beneficial partnerships
Agree	Agree who will manage data (e.g., Tribe, researcher, trusted 3rd party)
Consider	Consider additional protections, as necessary

Supporting DEI-Related Initiatives Across the ADRC Program

DEI-Focused ADRC Meeting

Speaker/Interviewee Highlights	Talk Title
Lisa Barnes, PhD Rush University Alzheimer's Disease Center	**Social Determinants of Health and Health Equality**
Margaret Pericak-Vance, PhD John P. Hussman Institute for Human Genomics	**Genetics of AD in Minoritized Populations**
Michelle Mielke, PhD Wake Forest University ADRC	**Impact of Race and Ethnicity on AD Biomarkers**
Monica Rivera Mindt, PhD Fordham University	**Race and Ethnic Differences in Clinical AD phenotype**
Gina Green-Harris, MBA Wisconsin ADRC	**Building Strong, Bi-directional, and Sustainable Community Partnerships to Support Recruitment for AD trials**
Amy Kind, MD, PhD Wisconsin ADRC	**The New Paradigm of Federal Equity Policy: Role of the ADI**
Crystal Glover, PhD Rush ADRC	**The Diversification of Brain Tissue: Why and Ways Forward**
Maria Carrillo, PhD Alzheimer's Association	**A Personal Perspective: The Importance of Equal Access to Care and Intervention in AD**

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Crystal Glover, PhD Rush ADRC	**The Diversification of Brain Tissue: Why and Ways Forward**
Maria Carrillo, PhD Alzheimer's Association	**A Personal Perspective: The Importance of Equal Access to Care and Intervention in AD**

New Investigator Awards:

Call for Applications!

Two awards will be given (**$135k** each):

Two tracks to choose from:

1. **Traditional award**: Open to proposals focused on any ADRD–related research topic

2. ***New!*** **DEI–focused award**: Open to proposals with a strong DEI or health disparities research focus within ADRD

Application deadline: January 17th, 2023

Find out more and apply:

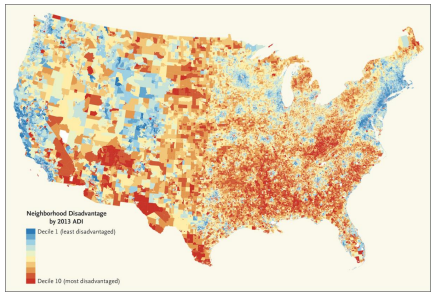
bit.ly/NI-awards

NACC

UNIVERSITY of WASHINGTON

Facilitating More Inclusive ADRD Research to Advance Our Understanding of ADRD and Health Disparities

Expanding UDS Participant Diversity and Access



Building Tools for DEI and Disparities Research

Promoting Best Practices

2022 FALL ADRC MEETING

New Investigator Awards

Funding Opportunity

Supporting DEI-Related Research

Impact on Scientific Discovery

Opens the door to asking and answering new questions in ADRD

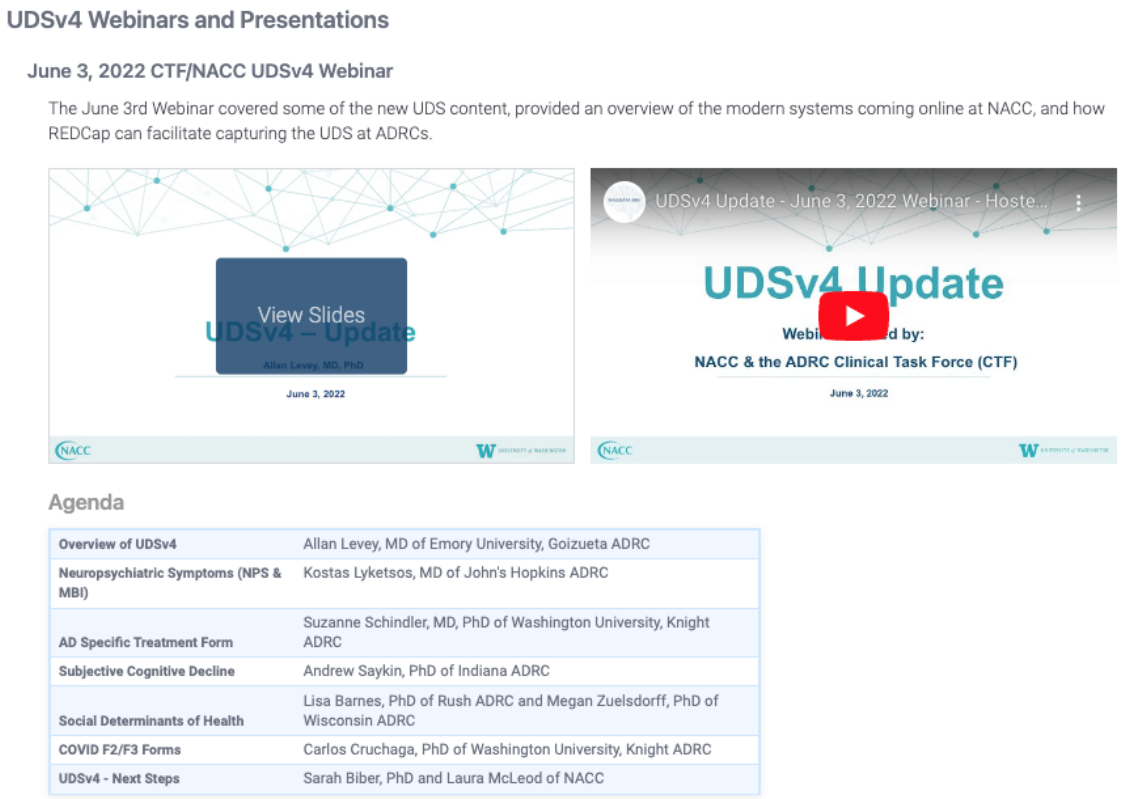
- Access to integrated longitudinal standardized data streams for research and analysis
- Data available for developing, testing, and scaling algorithms
- Facilitating earlier disease detection and the development of more impactful therapeutics
- Understanding the impact of SDOH on ADRD
- More opportunities to build bridges with other NIH big data initiatives

UDSv4 and Modernization Timeline

Category	Task	Q4 2022	Q1 2023	Q2 2023	Q3 2023	FUTURE
Flywheel	Existing NACC data (forms and legacy images) transferred to Flywheel					
	Authorization system deployed leveraging NACC Directory					
	Sites will be able to see their own data					
	COVID v2 data submission system active					
UDSv4 Implementation	UDSv4 content finalized (Initial VP, Follow-up VP, Remote: TIP, TFP)					
	UDSv4 pilot at select centers					
	UDSv4 forms developed in REDCap					
UDSv4 Training	UDSv4 coding guidebooks and videos					
	UDSv4 training: clinicians and data managers					
UDSv4 Initiation	Centers start using and submitting UDSv4 (REDCap and PDF)					
	Centers start using new participant registration process					
	Stop date for UDSv3 submission					
Additional Data Integrations	SCAN metadata and analysis data integrated					
	NCRAD/NIAGADS metadata and analysis data pilots					
	EHR/CMS pilot data					
	Digital Biomarker & Digital Neuropathology					
DFD Prototype	Flywheel connected to Leaf (data queries and access)					

Keeping You in the Loop!

UDSv4 Webpage



UDSv4 Webinars and Presentations

June 3, 2022 CTF/NACC UDSv4 Webinar

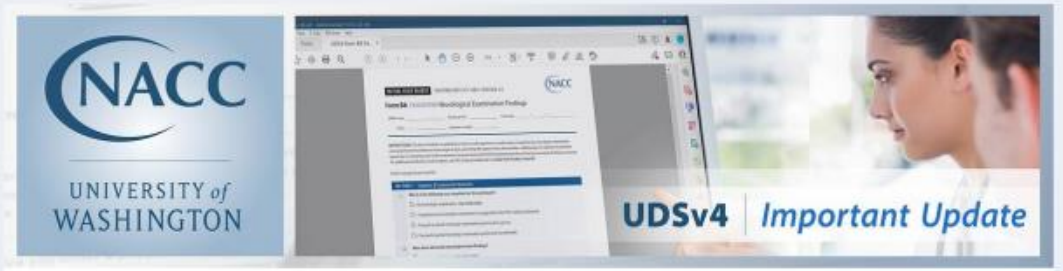
The June 3rd Webinar covered some of the new UDS content, provided an overview of the modern systems coming online at NACC, and how REDCap can facilitate capturing the UDS at ADRCs.

Agenda

Overview of UDSv4	Allan Levey, MD of Emory University, Goizueta ADRC
Neuropsychiatric Symptoms (NPS & MBI)	Kostas Lyketsos, MD of John's Hopkins ADRC
AD Specific Treatment Form	Suzanne Schindler, MD, PhD of Washington University, Knight ADRC
Subjective Cognitive Decline	Andrew Saykin, PhD of Indiana ADRC
Social Determinants of Health	Lisa Barnes, PhD of Rush ADRC and Megan Zuelsdorff, PhD of Wisconsin ADRC
COVID F2/F3 Forms	Carlos Cruchaga, PhD of Washington University, Knight ADRC
UDSv4 - Next Steps	Sarah Biber, PhD and Laura McLeod of NACC

bit.ly/UDSv4Updates

UDSv4 Email Updates



Dear ADRC Colleague,

NACC and the CTF are making great progress towards completing the content for UDSv4.

We wanted to update you on some key areas of progress and highlight some new resources that we have built to keep you in the loop.

NACC and the CTF will be sharing updates on UDSv4 and the modern UDSv4-related infrastructure that we are developing at the Fall ADRC Meeting.

We hope you can join us there!

Register for 2022 Fall ADRC Meeting

bit.ly/nacc-stay-connected

How Can You Get Involved?

- **Join the Electronic Data Capture Workgroup**

  naccdata.org/edc

- **Sign up to participate in a DFD Focus Group**

  bit.ly/DFDFocusGroup

- **Apply for the NI Award**

  bit.ly/NI-awards

- **Learn more about NACC Data**

  naccdata.org

- **Give feedback on Flywheel as you start to interact with it by emailing us**

  nacchelp@uw.edu

Connect with NACC

Sarah Biber, PhD, Program Director

Biber@uw.edu

NACC

UNIVERSITY of WASHINGTON

Thank you!

Data Repository and Pipeline

Ben Keller, Ph.D.

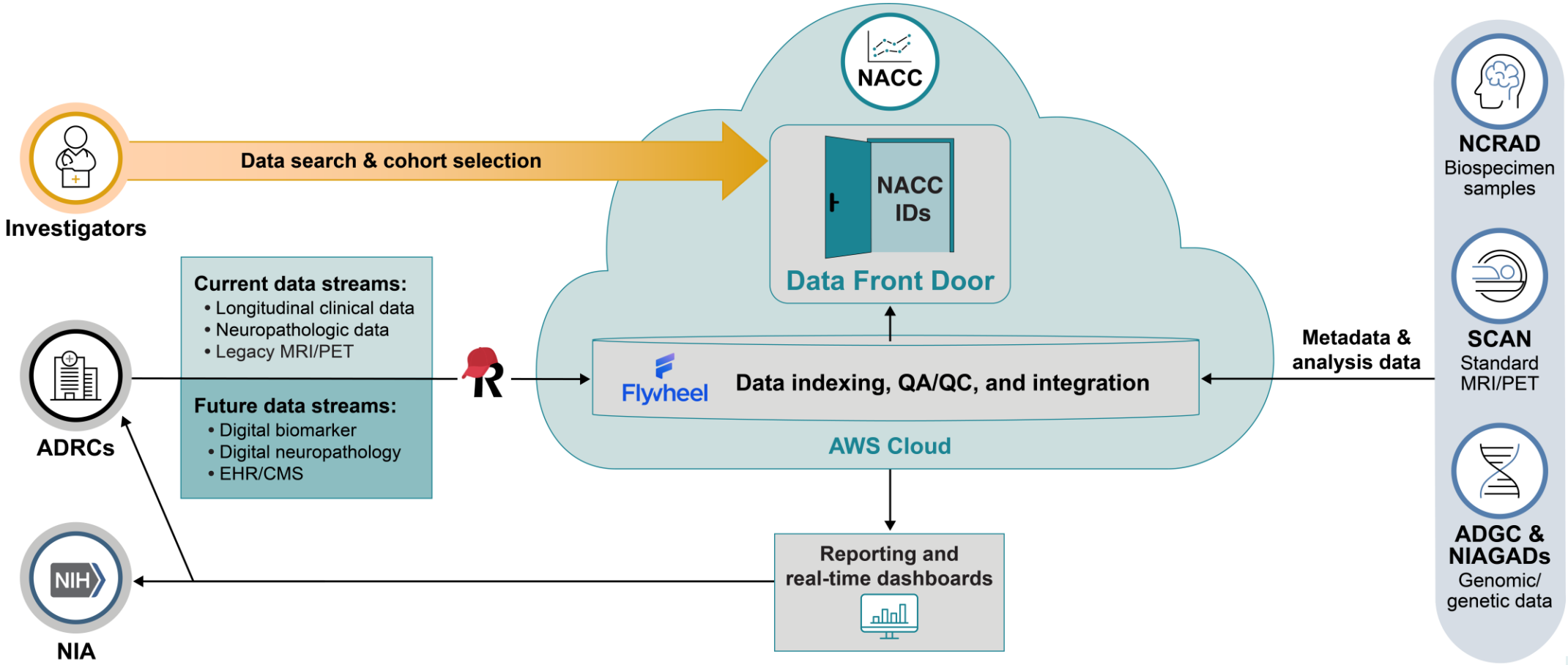
20 October 2022 – Fall ADRC 2022

NACC is migrating to Flywheel as the data repository

This will make data submission, harmonization, dissemination scalable and more user friendly for ADRCs and ADRD researchers

The Architecture We Are Building

Flywheel will integrate and organize all ADRC data



Why Flywheel?

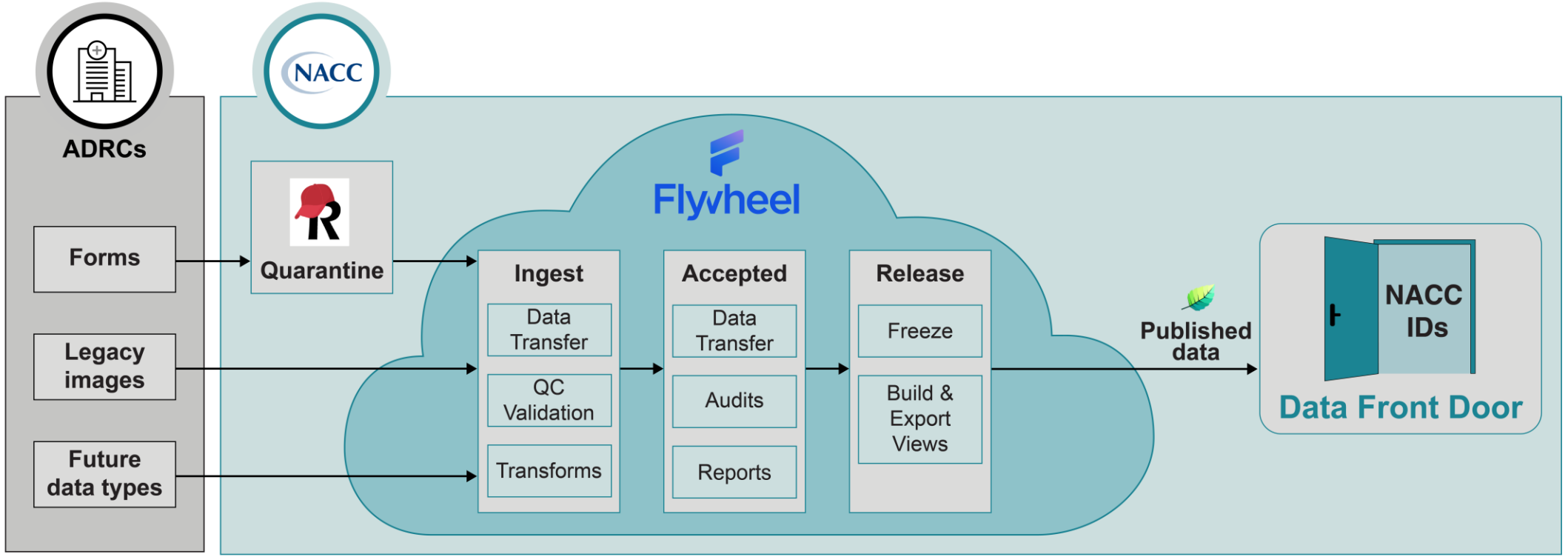
Flywheel allows the integration of current and future data streams

- Flywheel used at ADRC institutions for imaging
- NACC 6-week pilot demonstrated our ability to use Flywheel for forms data
- File-based – going beyond forms and images
- Opens potential for sandboxed analysis

New Capabilities

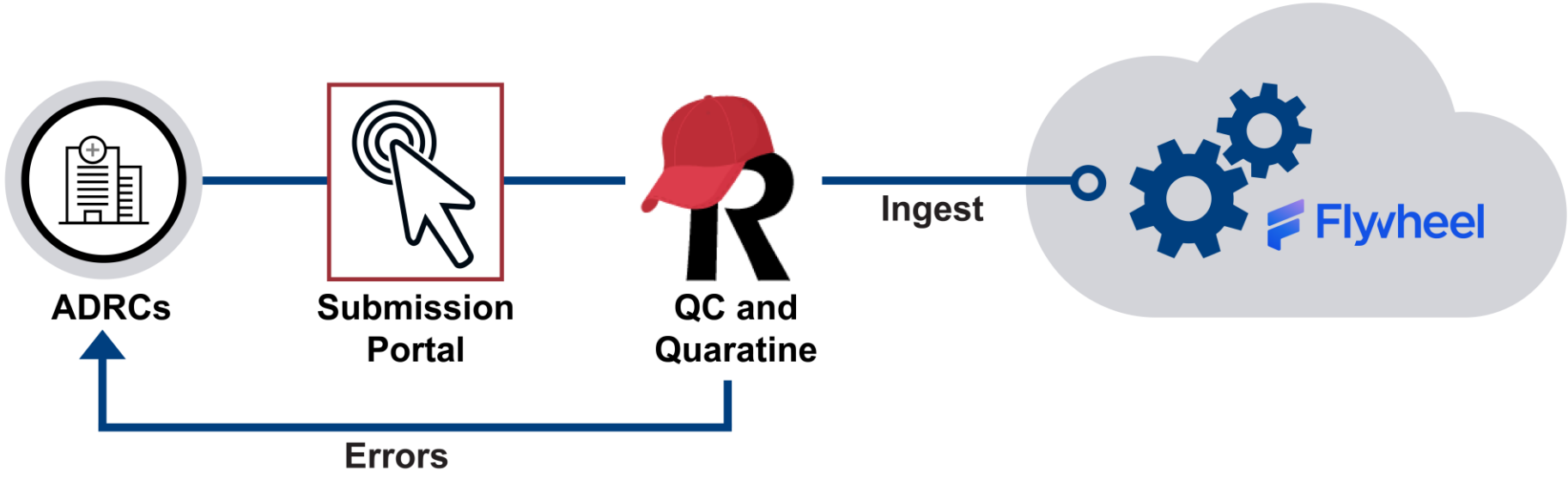
- More consistent ways to submit data
- Easier to see, track and use your submitted data
- Scalable to new data types for ADRC collaborative proposals
- Streamlined access management

Future ADRC Data Pipeline



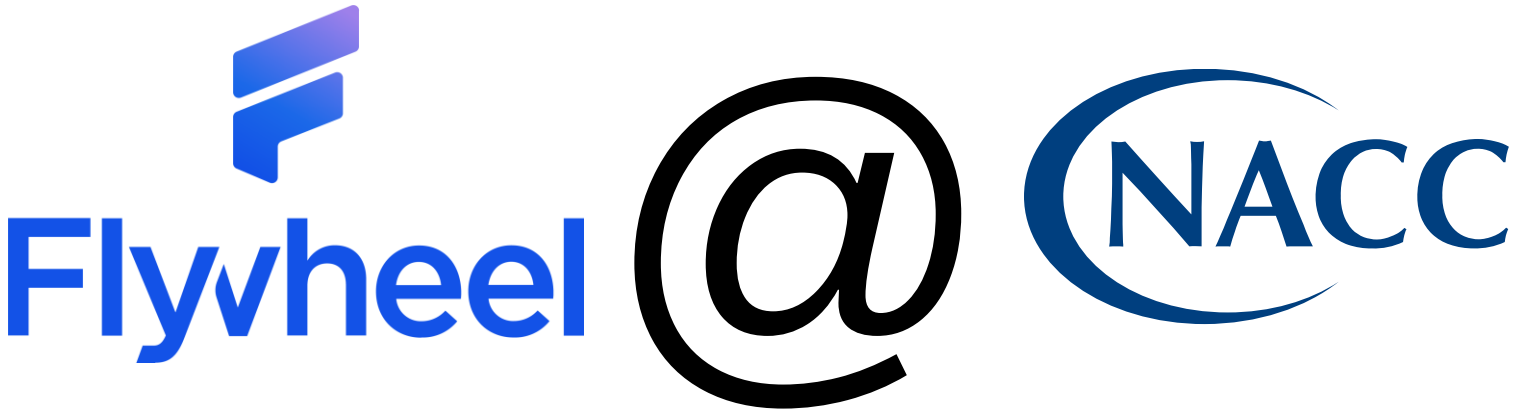
The Future of NACC Data Submission

- Actively building REDCap-based submission of forms
- Expect REDCap to REDCap, and submission portal
- Other data types (legacy images, digital data, clinical data/EHR) through Flywheel
- Form QC resources will be available to centers



The Future of NACC Access Management

- NACC will support single sign on with institutional credentials via InCommon (using CILogin or ORCID)
- Accounts and authorizations will be managed by integrating the REDCap-based NACC directory with Flywheel

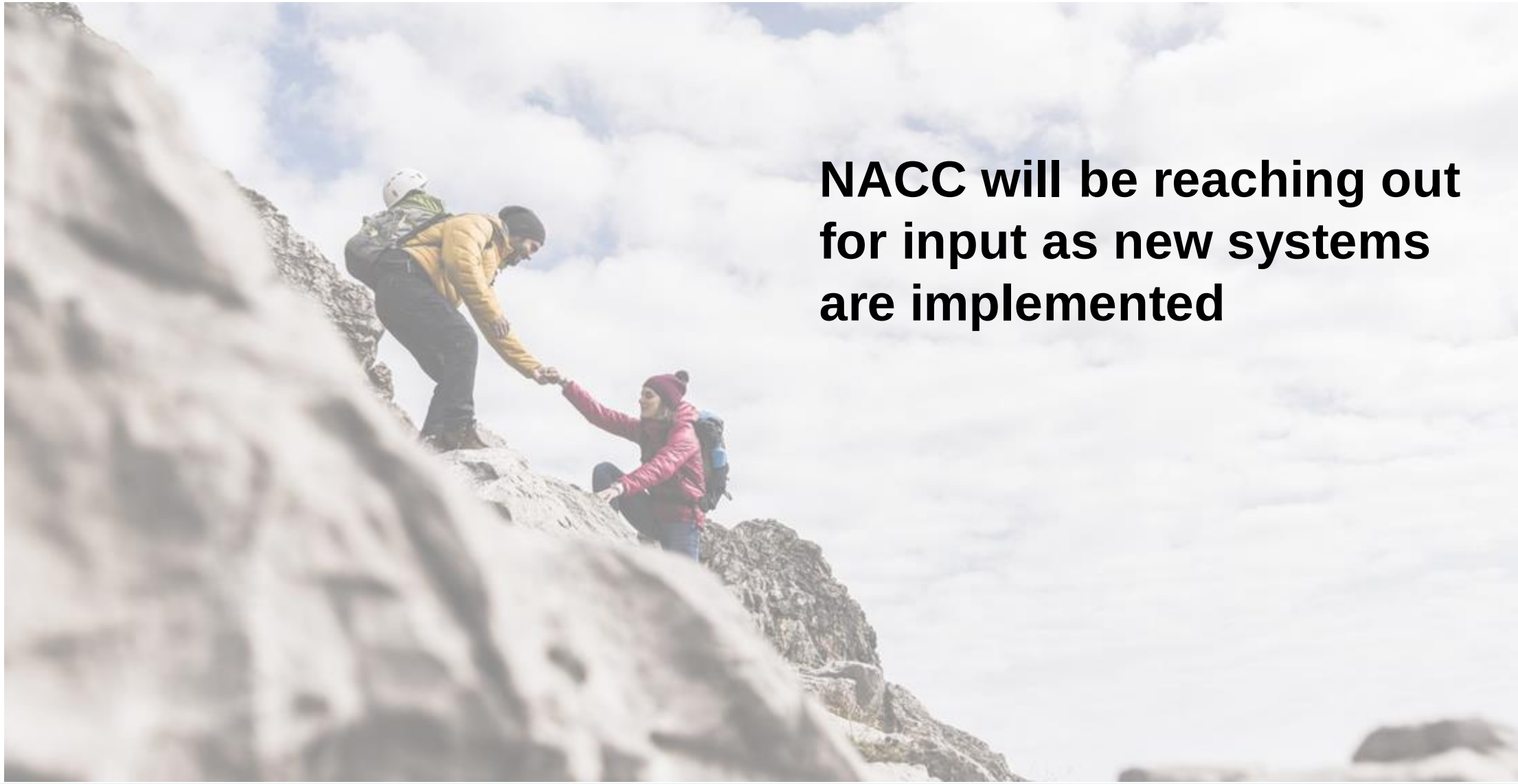


Roadmap

Quarter	Objective
Q4 2022	Design and configure
Q1 2023	Build infrastructure
Q2 2022	Move-in
Q3 2023	Move-out*
Q4 2023	Enhance and extend

*Some tasks tied to end of UDSv3 submission

You Can Help!



NACC will be reaching out for input as new systems are implemented

Connect with NACC

Ben Keller – Tech Lead

bjkeller@uw.edu

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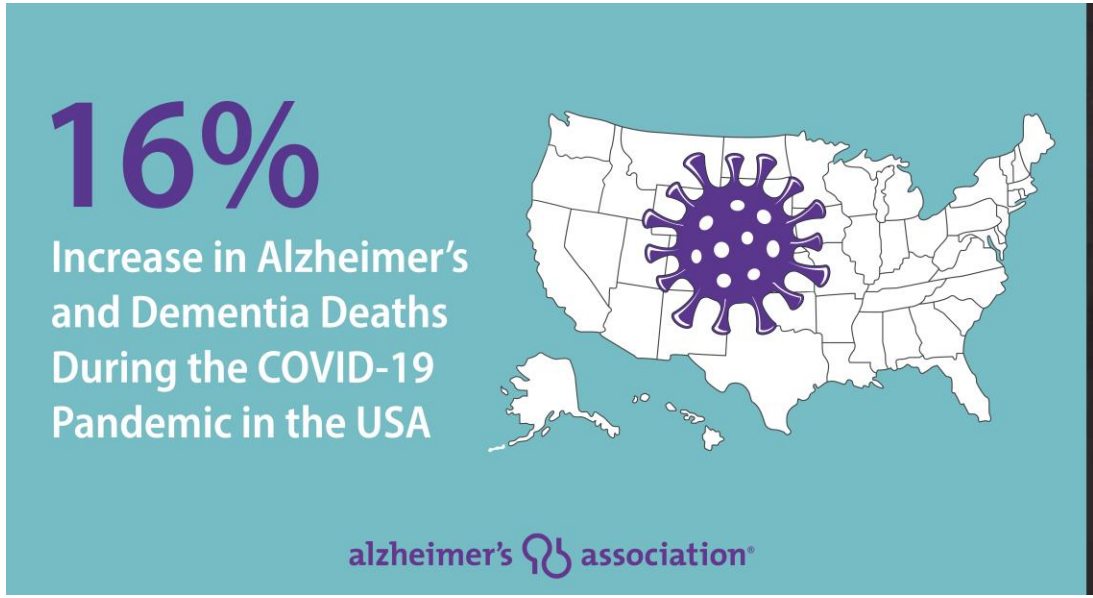
NACC COVID-19 Supplement Update

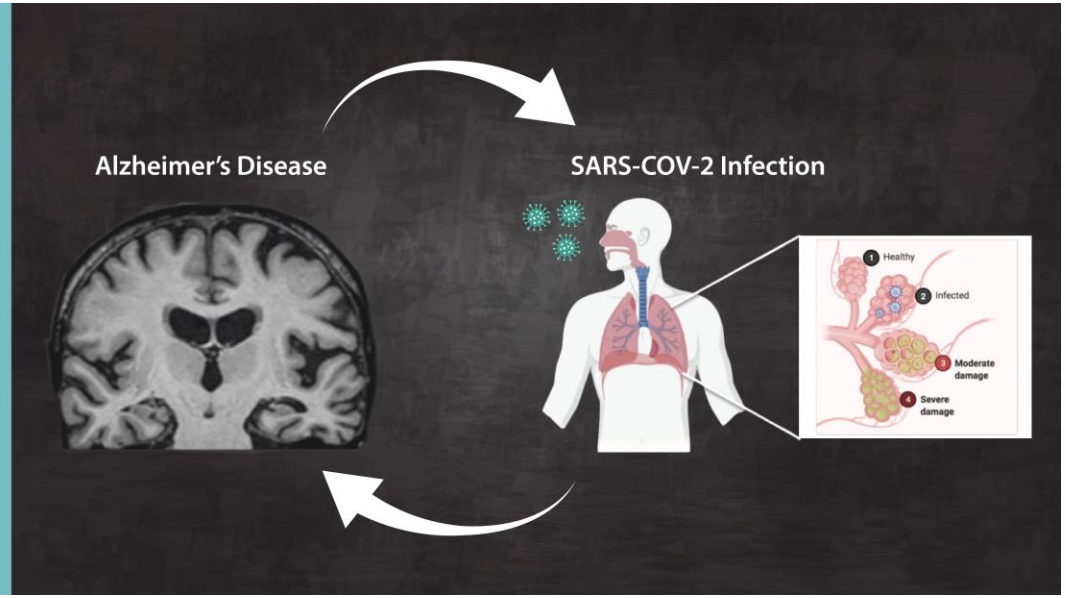
Sean Mooney, PhD, Melissa Lerch, PhD, and Kari Stephens, PhD

Thursday, October 20 – ADRC Fall 2022

Opportunity

Build a platform to facilitate uncovering the relationship between COVID-19 and ADRD





NACC COVID-19 Supplement

- **Aim 1:** Support study design, recruitment and enrollment at three pilot sites and collect baseline data.
- **Aim 2:** Demonstrate integration of EHR and CMS data with phenotypic and previously collected genetic data.
- **Aim 3:** Facilitate computational analysis of genetic information with participant phenotypic and genetic data.

NACC

NIAGADS

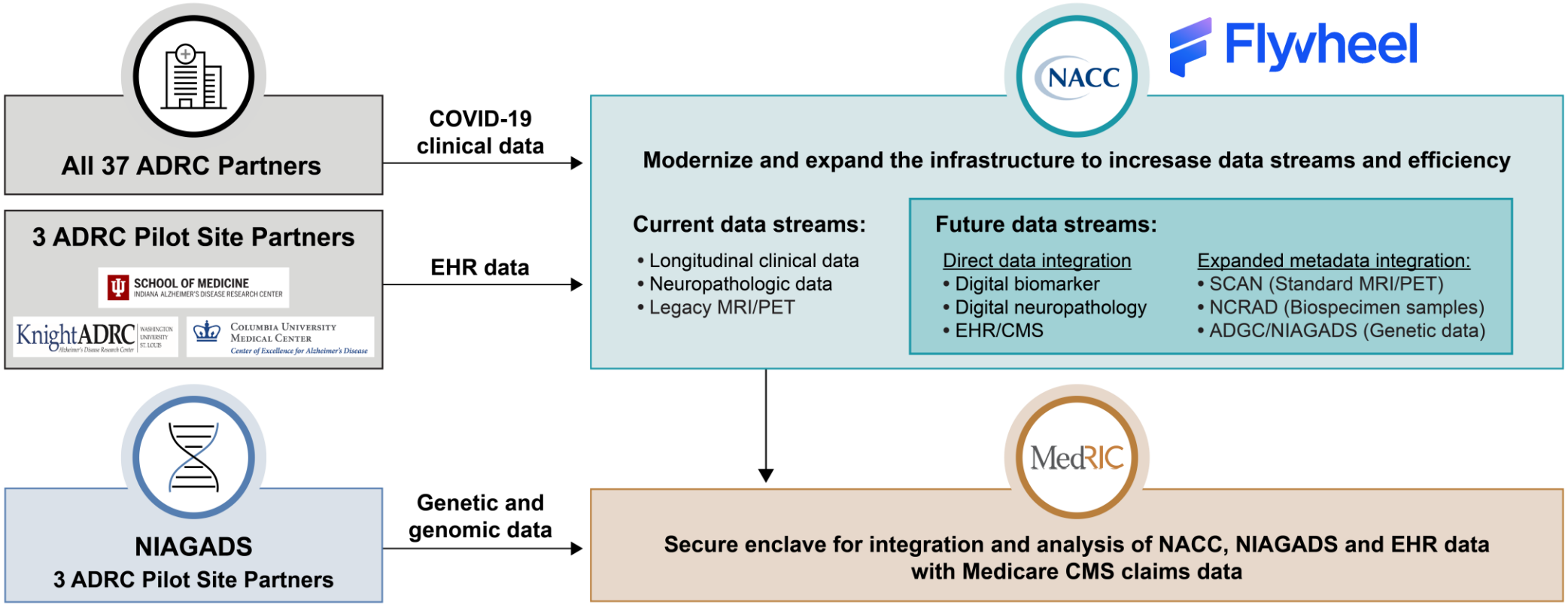
SCHOOL OF MEDICINE
INDIANA ALZHEIMER'S DISEASE RESEARCH CENTER

KnightADRC
Alzheimer's Disease Research Center
WASHINGTON UNIVERSITY ST. LOUIS

COLUMBIA UNIVERSITY MEDICAL CENTER
Center of Excellence for Alzheimer's Disease

NACC COVID-19 Supplement

NACC is establishing a platform to collect and link clinical (EHR) and claims (CMS) data with genetic data (NIAGADS/ADSP) and phenotypic data (NACC) for consented ADRC participants.



Building a Roadmap for Expansion to All 37 ADRCs

Standard operating procedures are under development to facilitate governance and data linkage processes.

Why? Unique Value of NACC Data

- Includes cognitively normal, MCI, and dementia participants
- Rich longitudinal neurocognitive data from populations at high risk for the development of Long Covid - collected prior to infection
- 16,000+ active participants - one of the largest and most comprehensive longitudinal datasets in the world for an age group at high risk for COVID-19 infection
- Integrated with a multitude of valuable data streams for ADRC participants - including standardized MRI/PET imaging
- NACC has the infrastructure to track participants longitudinally

Why Expand to All ADRCs?

Builds on NIH/NIA's investments:

- Build on NIA's investments in NACC, NIAGADS, and the ADRC Program
- Promotes MedRIC platform (NIA funded partner)
  - Secure computer enclave for combining and analyzing the data collected through this new consortium model for the ADRC community
- If the pilot is expanded to the full ADRC Program, it will also complement other NIH-funded COVID studies such as RECOVER and N3C and create promising opportunities for collaboration.

- **RECOVER**
- **ADSP** (Collaborating with NIAGADS to improve integration of phenotypic and genetic data)
- **Align with VA projects** (Working with VA data)
- **N3C**

COVID Form Update

COVID Data Collection from the ADRC Program

COVID Technology Assessment

- Focus: Determining the best follow-up with participants during the pandemic:
- Released: June 2020
- Collected 2070 responses from 12 ADRCs

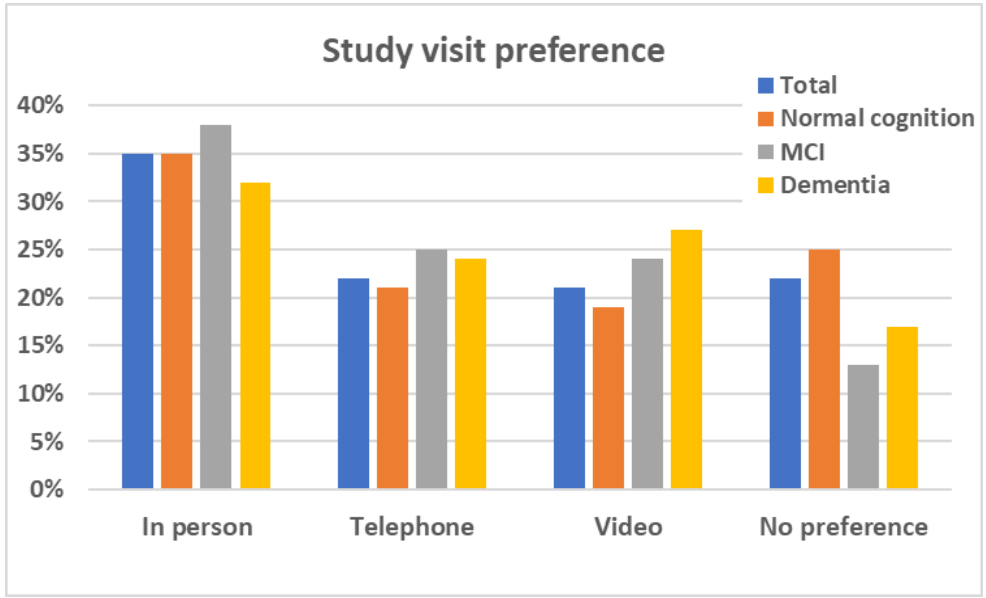
Original COVID Impact Survey Forms

- Focus: COVID testing, infections, and impact of pandemic from participant and co-participant
- Released: June 2020
- About 5000 COVID Impact Surveys v1 forms from 22 ADRCs

COVID Data Collection from the ADRC Program

Recent Publication

- Manuscript from OHSU accepted
- Participants want to connect with ADRCs using a variety of methods irrespective of cognitive state
- Participants with dementia/MCI were less likely to use the internet

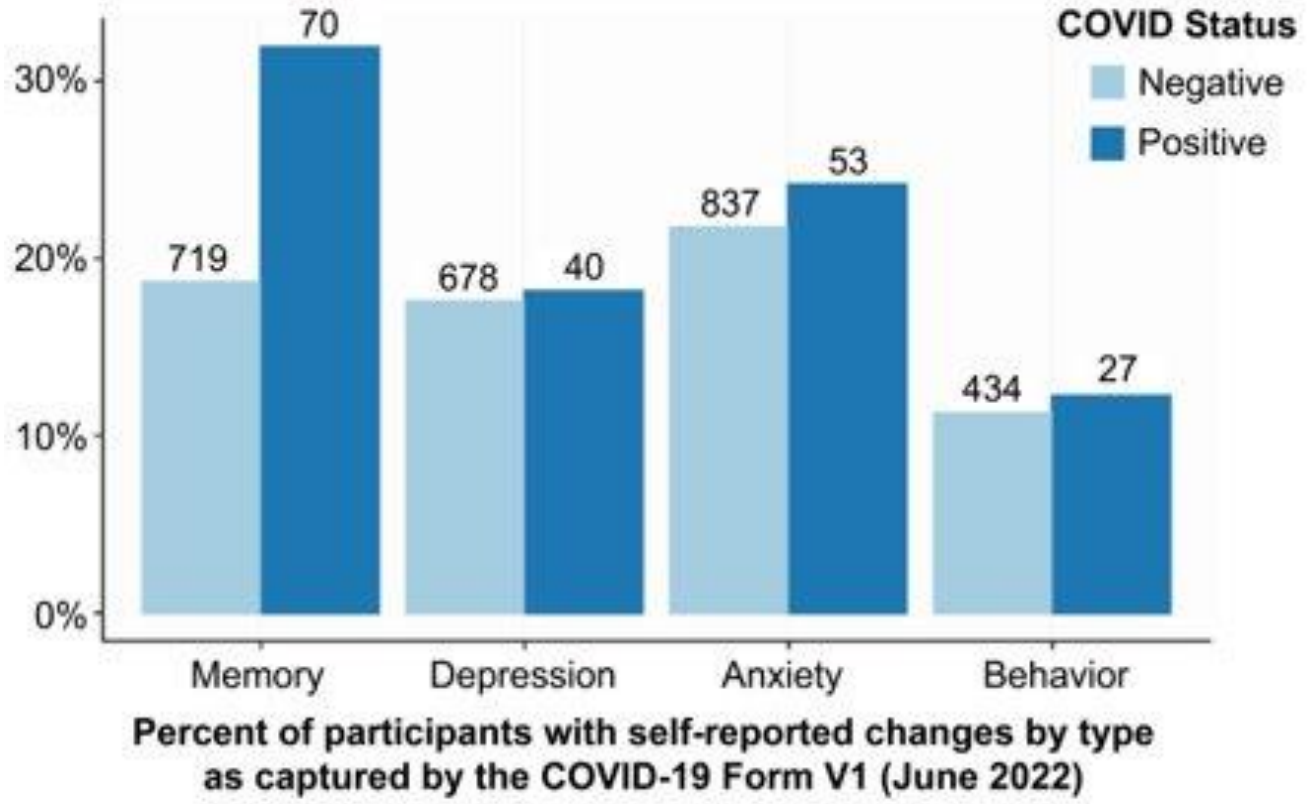


M. Nunnerley N. Mattek, J. Kaye, Z. Beattie, Preferences of NIA Alzheimer's Disease Research Center Participants Regarding Remote Assessment During the COVID-19 Pandemic (2022) *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring.* Accepted.

COVID-positive Participants report Memory Changes

COVID Impact Survey

- COVID-positive participants have increased self-reported changes in memory compared to COVID-negative
- Data from 4500 participants in June data freeze



Percent of participants with self-reported changes by type as captured by the COVID-19 Form V1 (June 2022)

Dynamic Response to the Pandemic

- **As the pandemic evolved, the COVID forms were adapted to capture:**
  - Vaccinations
  - Outpatient treatments
  - Hospitalizations
- **Forms provide a tool for capturing long COVID data**
- **New! COVID Impact F2/F3 v2 forms released July 2022**
  - Currently being translated into Spanish
- **Data Submission system being developed in REDCap**

Dynamic Response to the Pandemic

Required lots of effort from lots of folks – thank you!

- **James Noble** and **Carlos Cruchaga** designed the v2 Form
- **ADRCs** provided feedback through surveys
- **CTF** worked to approve the form for use
- **Katya Rascovsky** working on Spanish translation with **CADLAS** (US Consortium of Aging, Dementia and Latino Studies)

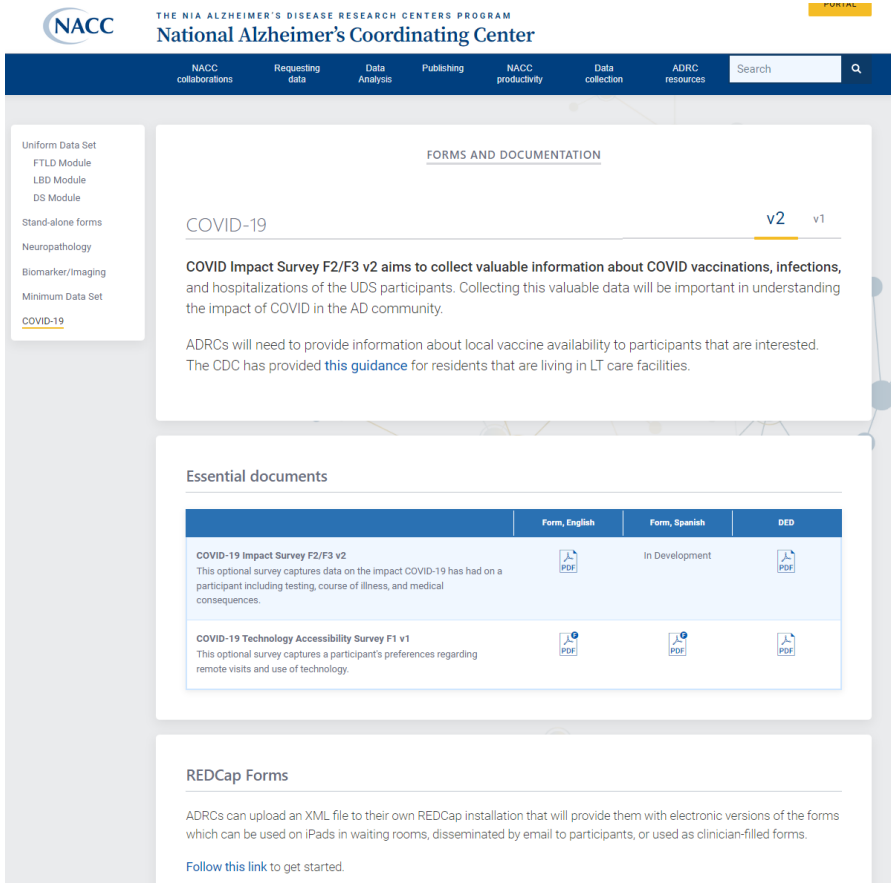
New COVID Impact v2 Forms are Ready

Two formats available on NACC website:

- Traditional Form (.pdf) with DED
- REDCap XML and DED (.csv) are available

REDCap forms offer advantages:

- Use in waiting rooms on iPads
- Send by email anytime
- Currently being developed into a dynamic auto-populated form for multiple use



https://bit.ly/nacc-covid19-v2

Supplement Progress Update

Supplement Progress

Infrastructure for linking NACC phenotypic, clinical EHR, claims (CMS Medicare), and NIAGADS (genetic) data on a well-studied population with informed consent.

Creating Governance

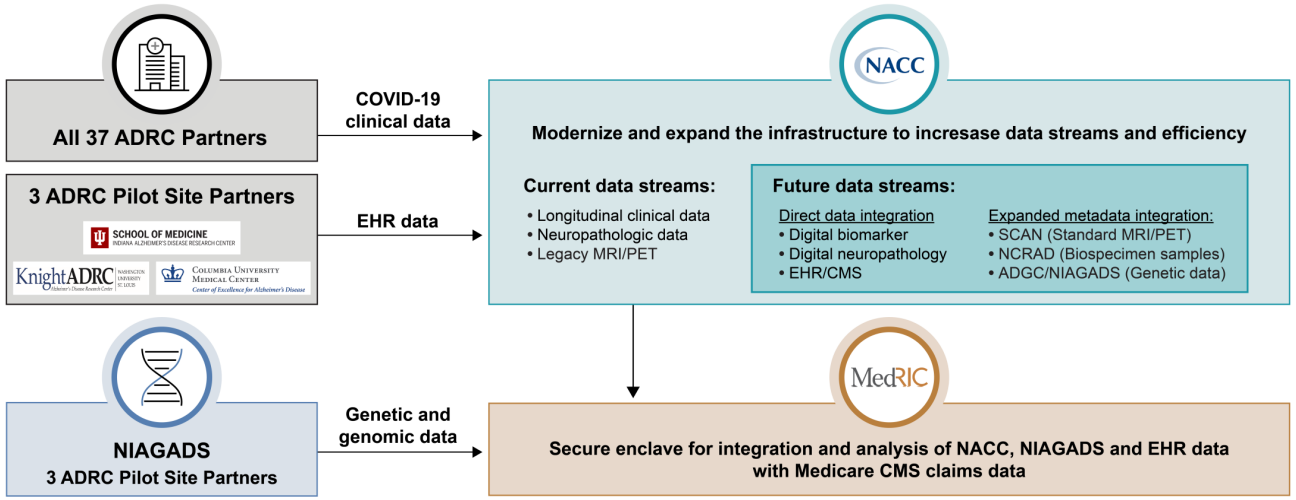
- **IRB modifications for COVID-19 and EHR data collection have been approved at all sites**
- **IRB modifications for CMS data collection in progress**
- **Consortia model has been developed and MedRIC agreements are being negotiated by NACC, MedRIC, and the sites**
  - Will enable establishment of a secure enclave to access CMS data

Supplement Progress

Infrastructure for linking NACC phenotypic, clinical EHR, claims (CMS Medicare), and NIAGADS (genetic) data on a well-studied population with informed consent.

Creating Governance

- **Discussions are underway with NIAGADS**



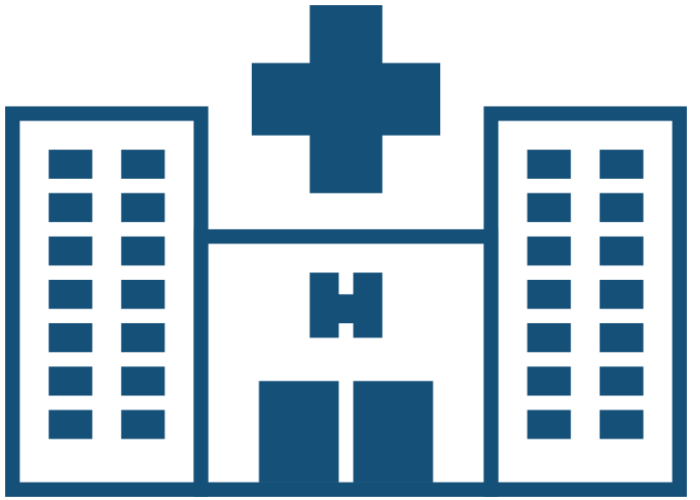
NIAGADS

Supplement Progress

Infrastructure for linking NACC phenotypic, clinical EHR, claims (CMS Medicare), and NIAGADS (genetic) data on a well-studied population with informed consent.

Developing a Clinical (EHR) Workflow

- **EHR specification and extraction processes are under development**
- **OMOP data model and alignment with other national data sharing efforts**

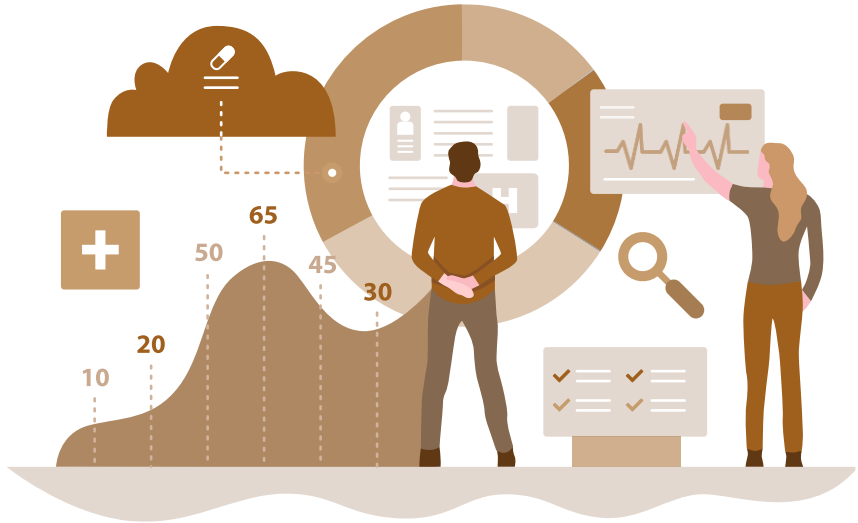


Supplement Progress

Infrastructure for linking NACC phenotypic, clinical EHR, claims (CMS Medicare), and NIAGADS (genetic) data on a well-studied population with informed consent.

Developing a Clinical (CMS) Workflow

- **Workflow being developed in anticipation of the MedRIC enclaves being implemented**
    - MedRIC provides access to CMS claims data using a cloud-centric computing platform that NACC will manage on behalf of the ADRC Program



Medicare & Medicaid Resource Information Center (MedRIC)

Supplement Progress

Infrastructure for linking NACC phenotypic, clinical EHR, claims (CMS Medicare), and NIAGADS (genetic) data on a well-studied population with informed consent.

Pilot Study Development

NACC and three ADRCs to develop observational study to test data linkages

- Targeting group launch in September 2022

Table 1. Projected Cohort Data	Controls	MCI	Dementia
Estimated total # of UDS participants from the three pilot sites (from July 2022 to July 31, 2024)	1,109	214	224
Data Types and Projected # of Participants (From the Above Total UDS Participants)	**Controls**	**MCI**	**Dementia**
EHR	637 (57%)	137 (64%)	184 (82%)
Modified COVID-19 Form V2	1,066 (96%)	202 (94%)	215 (96%)
Genomic data from NIAGADS	1,090 (98%)	208 (97%)	216 (96%)
EHR + Modified COVID-19 Form V2 + Genomic data from NIAGADS	619 (56%)	132 (62%)	176 (79%)

Advancing ADRD and COVID Research

Potential Future Studies

- Identify genetic and other biomarkers associated with the risk of dementia and cognitive complaints after COVID-19 infection
- Quantify polygenic risk of poor outcomes in ADRD with and without history of COVID-19
- Investigate long term effects of COVID-19 on cognitive impairment
- Characterize the relationship between healthcare access and outcomes in COVID-19 and ADRD

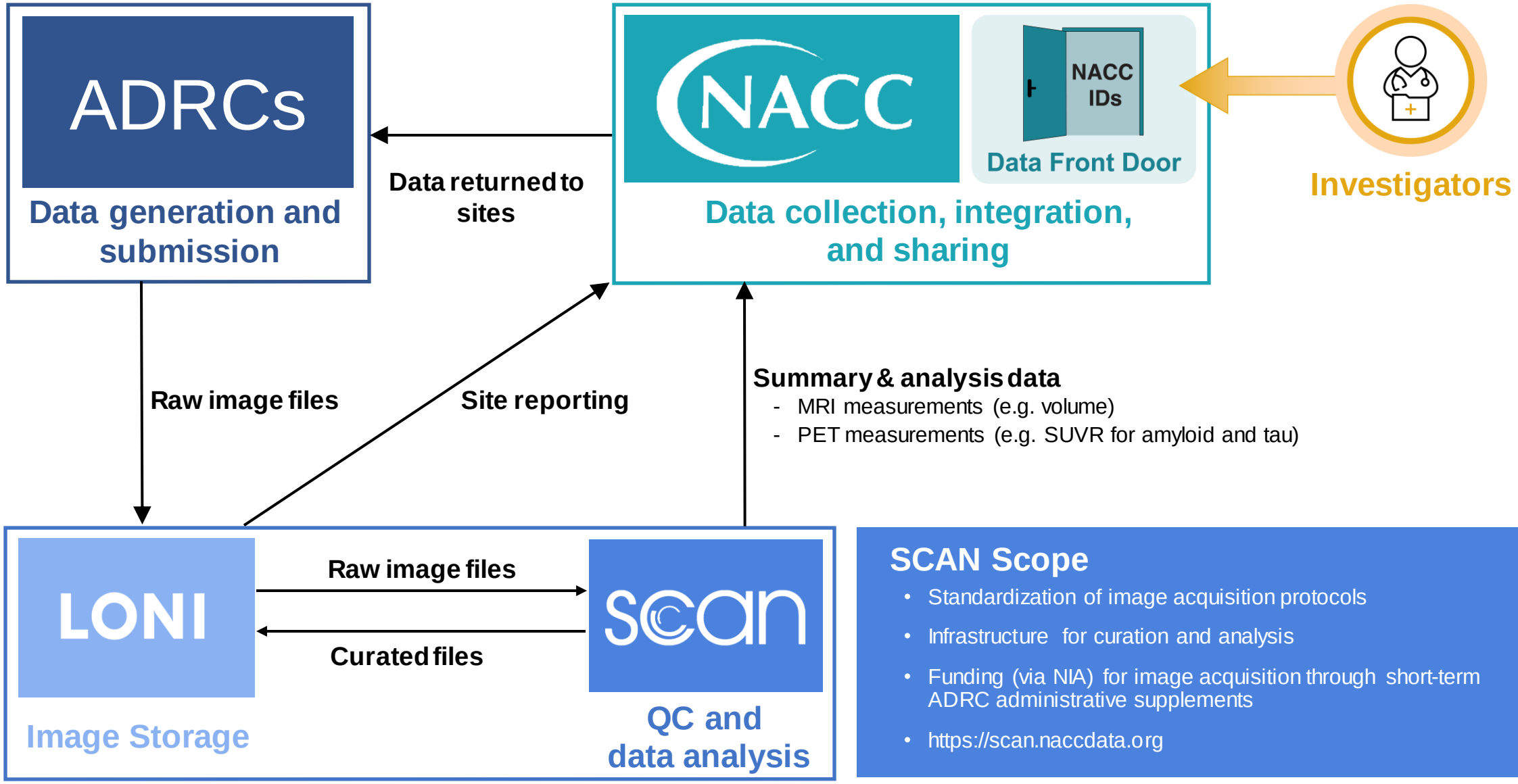
Thank you!

Amplifying SCAN

Sarah Biber, PhD

Thursday, October 20 – ADRC Fall 2022

SCAN



SCAN Scope

- Standardization of image acquisition protocols
- Infrastructure for curation and analysis
- Funding (via NIA) for image acquisition through short-term ADRC administrative supplements
- https://scan.naccdata.org

SCAN - How is it going?

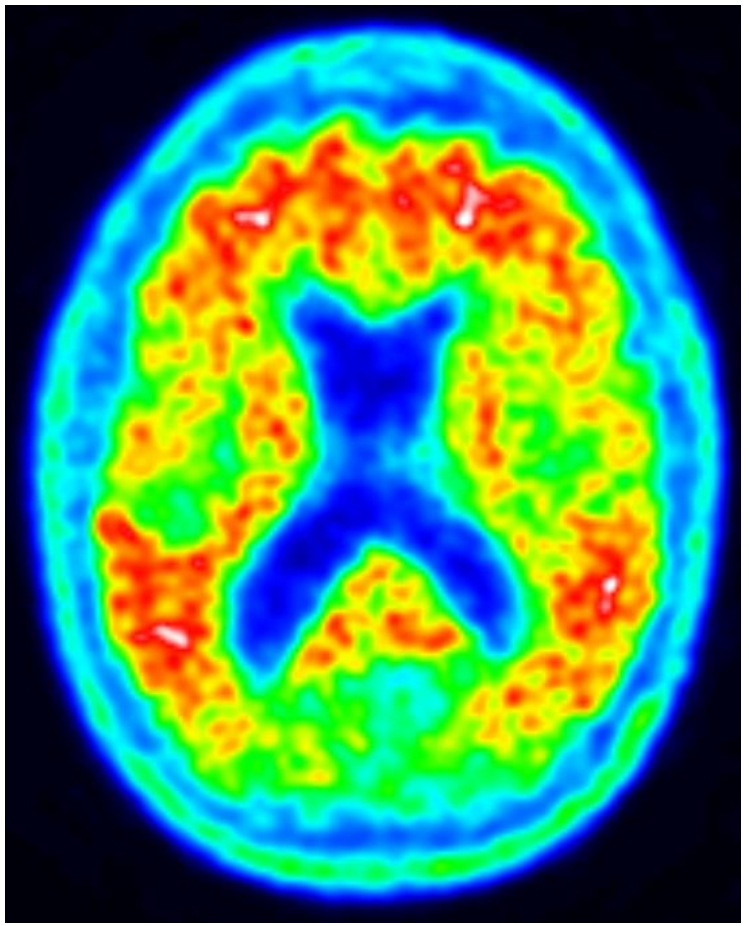
SCAN Submission Summary

Participant #	SCAN Types
1,402	MRI scan submitted
790	PET scan submitted
401	Both MRI and PET scan submitted - 51% of PET participants have at least 1 MRI scan

PET - How is it going?

1,098 PET Scans Received from 15 ADRCs

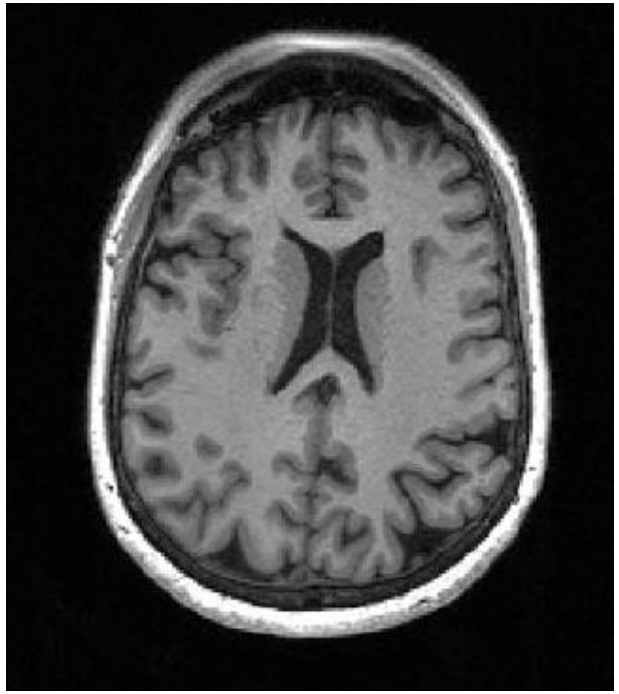
Scans Uploaded	Number
PIB	236
Florbetapir	146
Florbetaben	185
NAV4694	97
Total Amyloid	**664** (69% ADNI protocol)
Flortaucipir	134
MK6240	177
PI2620	84
Total tau	**395**
FDG (Fluorodeoxyglucose)	**105**



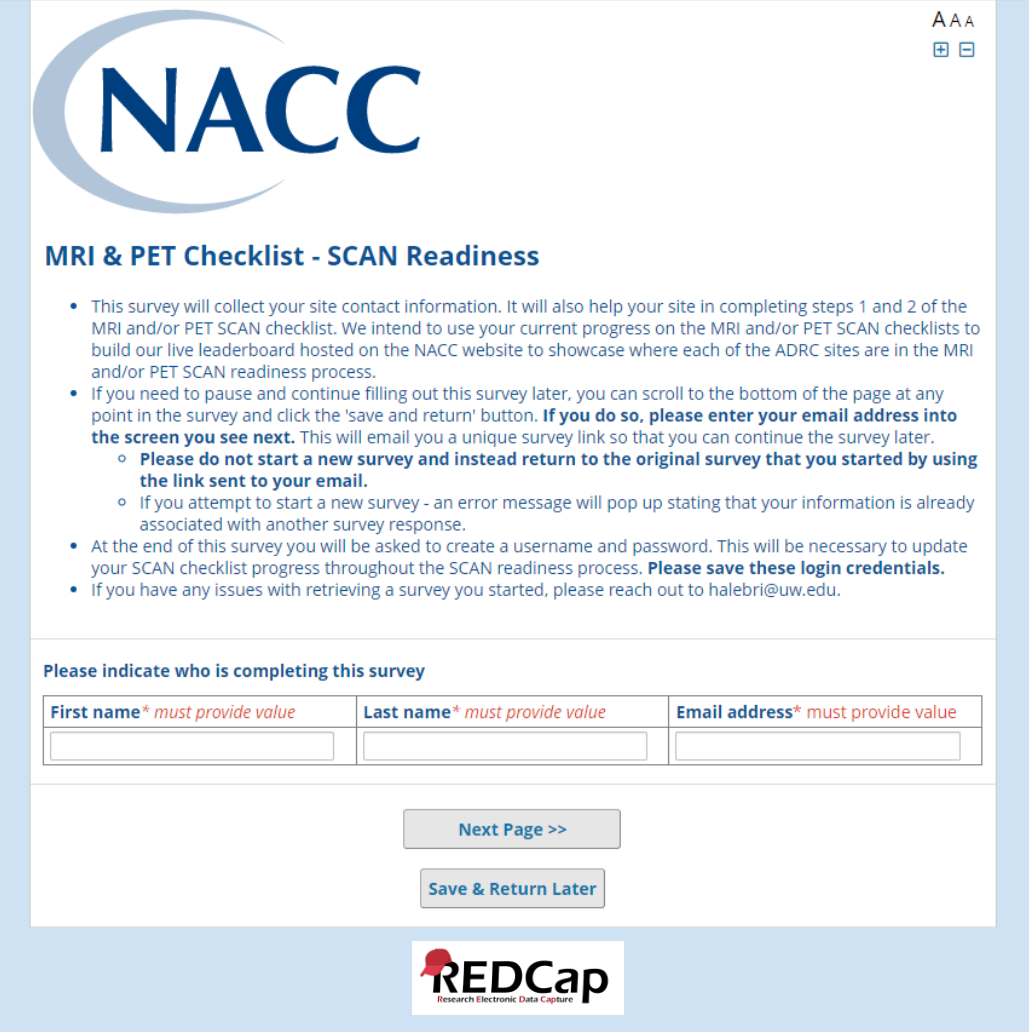
MRI - How is it going?

1,289 Exams Submitted from 27 ADRC

Series Type	# Received
T1	1,378
FLAIR	1,220
T2	448
dTI	406
ASL	274
GRE or MEGRE	336
Total Series Received	**5,772**



Amplifying the SCAN initiative



Developed and deployed a SCAN Checklist

Purpose:

- Roadmap for getting SCAN ready
- Standard tool for assessing SCAN readiness
  - REDCap-based
  - Can be updated by sites in real-time

Impact:

- **100%** of queried sites found the checklist helpful or thought it would have been helpful in getting SCAN ready

Next steps:

- Will survey all sites on SCAN readiness in early November 2022

Amplifying the SCAN initiative

20 Site Interviews Conducted (May - June 2022)

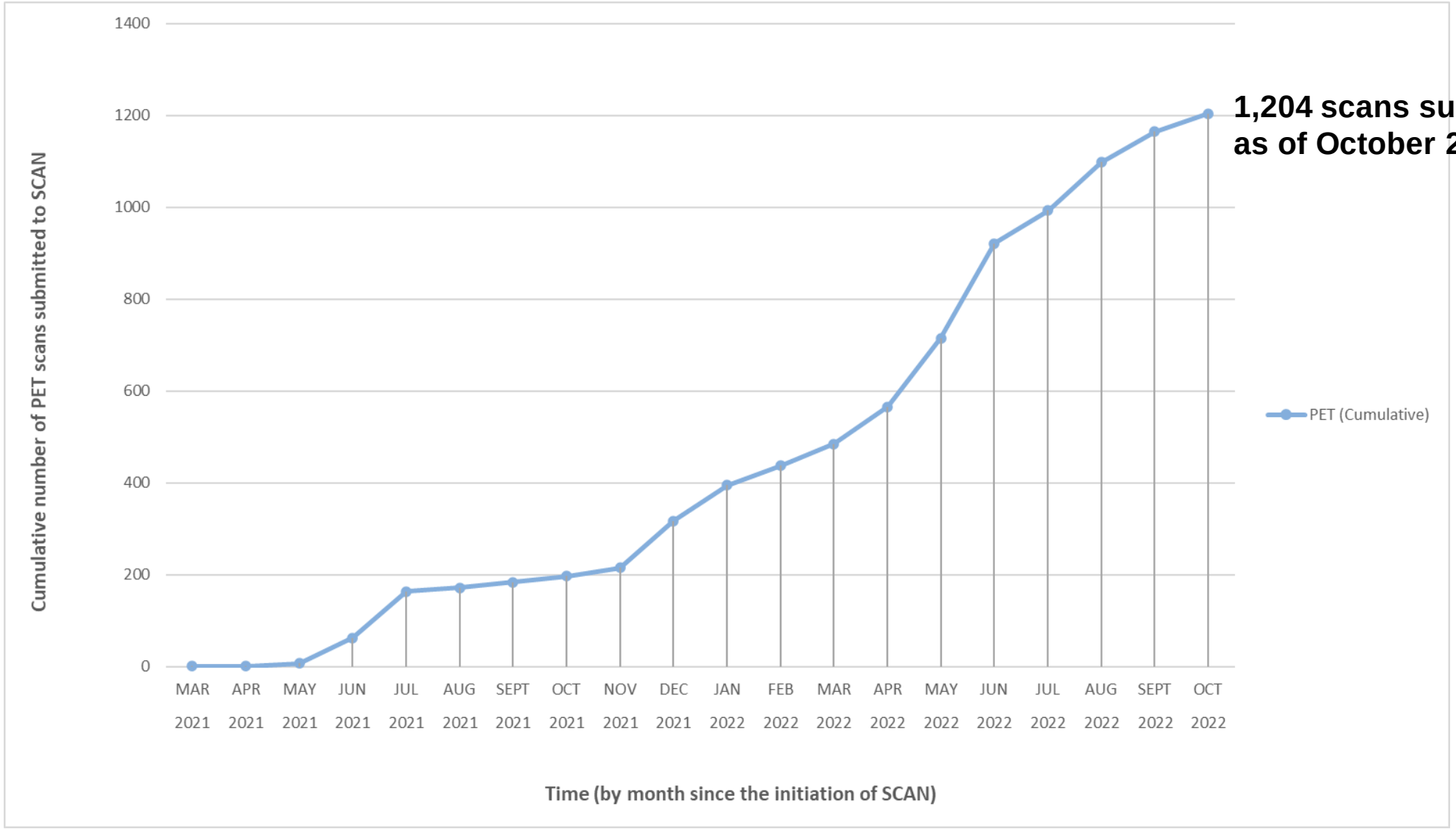
- **Goal:**
  - Discuss SCAN progress and identify roadblocks
  - Identify how to best support and amplify site participation in the SCAN initiative

- **How sites were selected for interviews:**
  - SCAN Co-I
  - Represented in the imaging steering committee
  - Received an admin supplement for SCAN participation

- **Interviewees:**
  - ADRC directors, imaging core leaders, admins

- **Outcomes:**
  - Identified common site challenges and barriers to participation
  - Informed the development of several tools and solutions to amplify the SCAN initiative

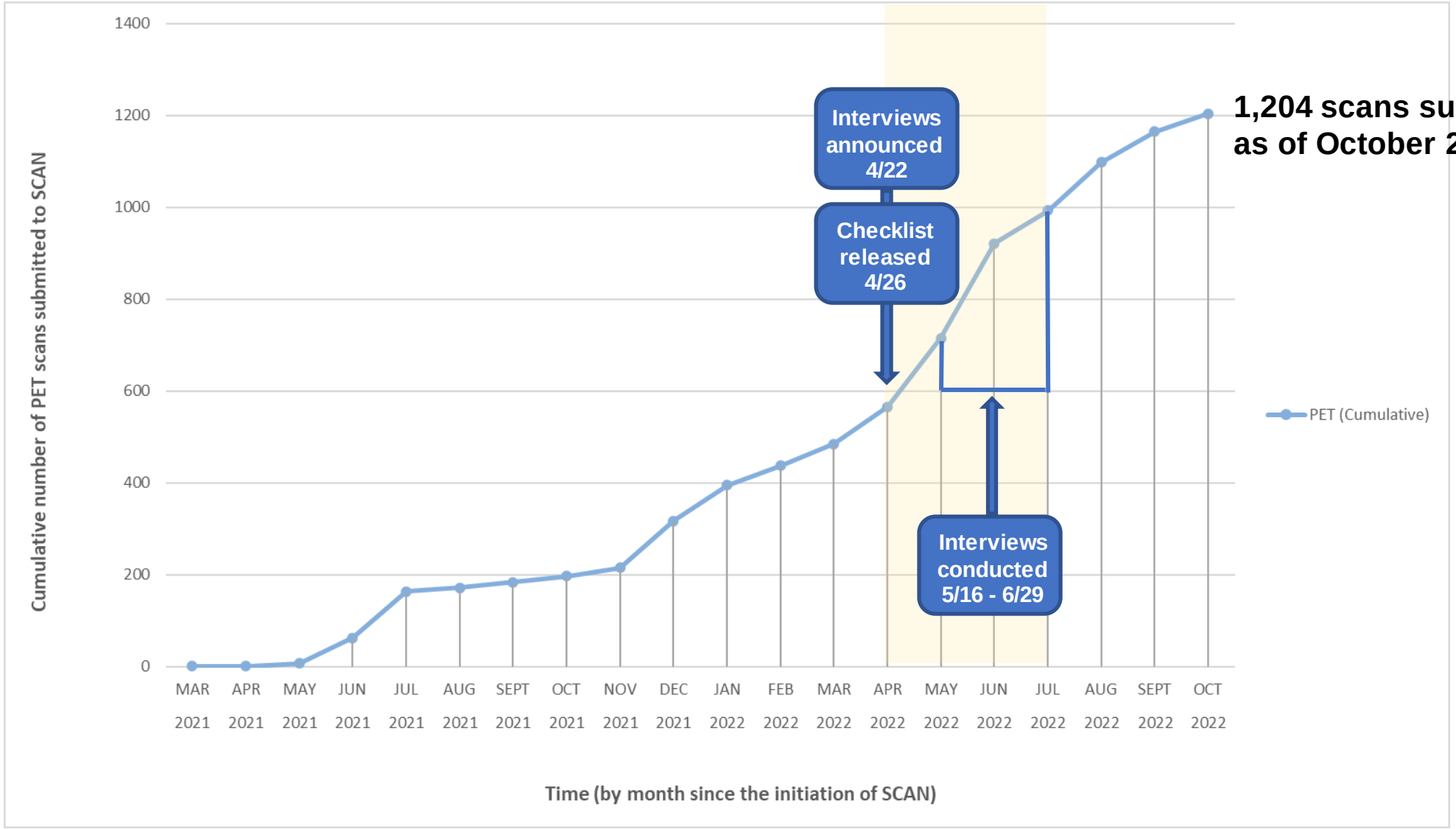
How is it going? PET



1,204 scans submitted as of October 2022

Data from graph in folder: here

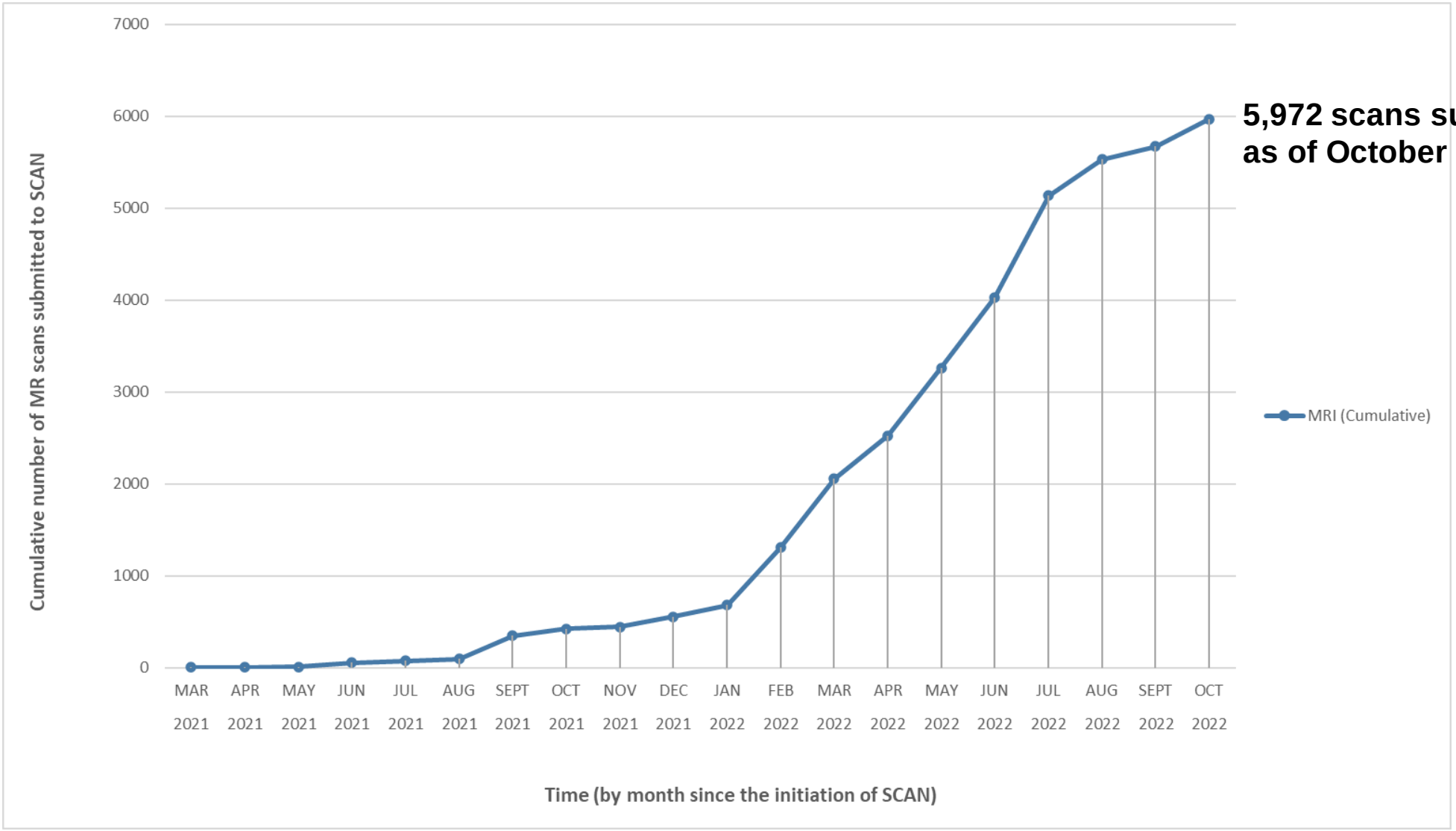
How is it going? PET



1,204 scans submitted as of October 2022

Data from graph in folder: here

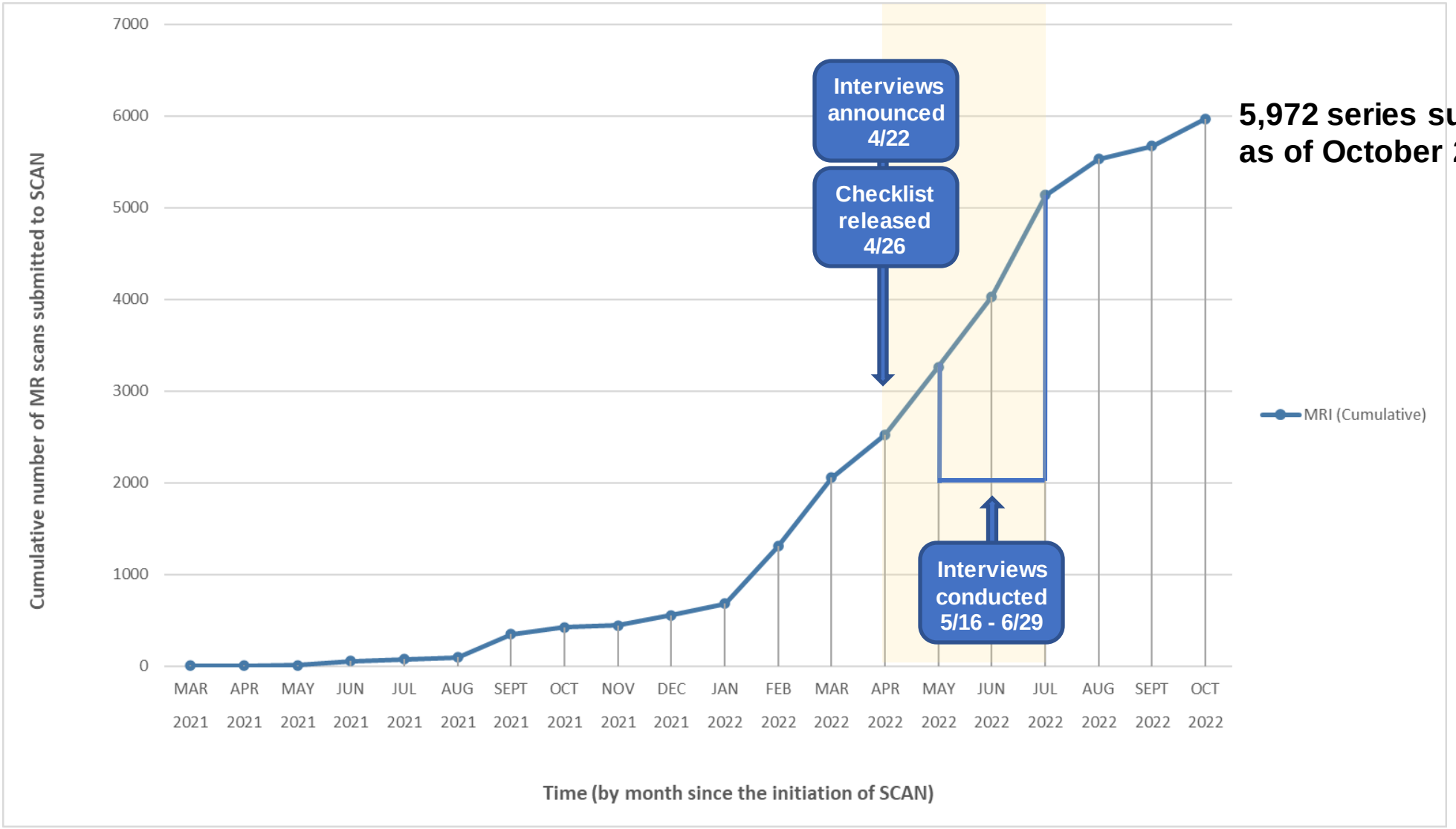
How is it going? MRI



5,972 scans submitted as of October 2022

Data from graph in folder: here

How is it going? MRI



5,972 series submitted as of October 2022

Data from graph in folder: here

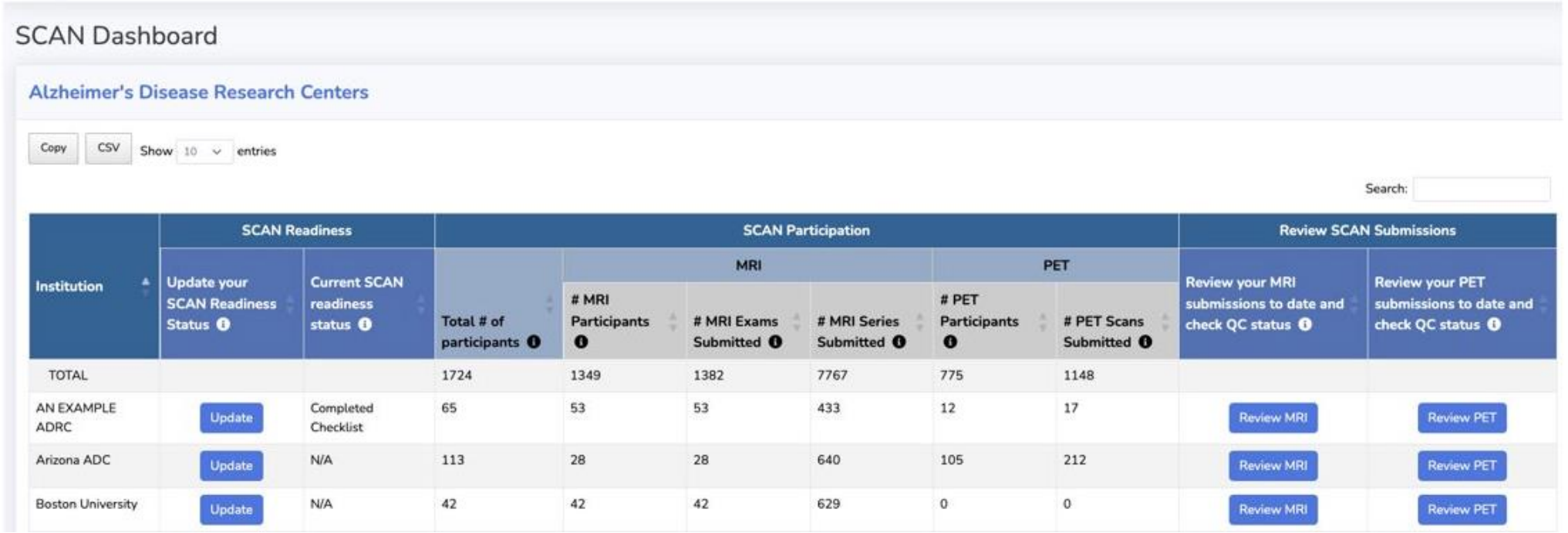
SCAN Solutions Being Built in Collaboration with SCAN/LONI

- **Real-time SCAN Dashboards**
  - SCAN - Public Dashboard
  - SCAN - Site-Specific Dashboards with downloadable data submission records and QA/QC feedback
- **Streamlined and Harmonized SCAN Resources**
- **New Scalable NACC ID Assignment Process**
- **New SCAN Web Portal**
- **Optimizing MRI/PET search through the Data Front Door**
  - Metadata and analysis data
  - Cohort selection tools

SCAN: Public Dashboard

Real-time Public Dashboard – view here

- Tracks each ADRC's SCAN readiness and participation
- Self-service tool for sites to update their readiness and track their SCAN submissions
- Provides researchers with up-to-date information on the number of standard images that are available for analysis



SCAN Dashboard

Alzheimer's Disease Research Centers

Copy CSV Show 10 entries

Search:

Institution	SCAN Readiness		SCAN Participation						Review SCAN Submissions	
				MRI			PET			
	Update your SCAN Readiness Status	Current SCAN readiness status	Total # of participants	# MRI Participants	# MRI Exams Submitted	# MRI Series Submitted	# PET Participants	# PET Scans Submitted	Review your MRI submissions to date and check QC status	Review your PET submissions to date and check QC status
TOTAL			1724	1349	1382	7767	775	1148		
AN EXAMPLE ADRC	Update	Completed Checklist	65	53	53	433	12	17	Review MRI	Review PET
Arizona ADC	Update	N/A	113	28	28	640	105	212	Review MRI	Review PET
Boston University	Update	N/A	42	42	42	629	0	0	Review MRI	Review PET

SCAN: Public Dashboard

Real-time Public Dashboard

- Tracks each ADRC's SCAN readiness and participation
- Self-service tool for sites to update their readiness and track their SCAN submissions
- Provides researchers with up-to-date information on the number of standard images that are available for analysis

SCAN Dashboard

Alzheimer's Disease Research Centers

Copy CSV Show 10 entries

Search:

Institution	SCAN Readiness		SCAN Participation						Review SCAN Submissions	
				MRI			PET			
	Update your SCAN Readiness Status	Current SCAN readiness status	Total # of participants	# MRI Participants	# MRI Exams Submitted	# MRI Series Submitted	# PET Participants	# PET Scans Submitted	Review your MRI submissions to date and check QC status	Review your PET submissions to date and check QC status
TOTAL		NA	1724	1349	1382	7767	775	1148	Review MRI	Review PET
AN EXAMPLE ADRC	Update	Completed Checklist	65	53	53	433	12	17	Review MRI	Review PET
Mayo Clinic	Update	Completed Checklist	152	152	155	602	0	0	Review MRI	Review PET
University of Michigan	Update	Steps 1-2 Completed	N/A	N/A	N/A	N/A	N/A	N/A	Review MRI	Review PET

SCAN: Site-Specific Dashboards

Features:

- Sites can track the QC status of their MRI submissions
- Record of all SCAN MRI data submitted to date – downloadable as a csv file

MRI Example

Site-Specific Dashboard > Central South Dakota MRI Data

Alert: PLEASE NOTE THAT THIS EXAMPLE DATA HAS BEEN FABRICATED AND DOES NOT REPRESENT ANY REAL ADRC, PARTICIPANT, OR DATA.

Review MRI Data

Copy CSV Show 10 entries

Search:

ADRC	NACCID	PTID	Study					Series						Visual QC	QC Comments
			Study Date and Time	Scanner Model	Study UID	Exam Compliance	Study Comments	Series Time and Date	Series Number	Series Type	Released for Analysis	Protocol Status	Protocol Comments		
Central South Dakota	NACC18247	916	9/1/2022 0:00	Achieva dStream	2.16.124.113543.6...	-1		9/1/2022 0:00	301	T2w	-1	3	Matching SQS parameters did not match		
Central South Dakota	NACC293187	493	12/1/2021 0:00	Achieva dStream	2.16.124.113543.6...	-1		12/1/2021 0:00	301	FLAIR	1	1			
Central South Dakota	NACC293187	493	12/1/2021 0:00	Achieva dStream	2.16.124.113543.6...	-1		12/1/2021 0:00	201	T1w	1	1			

SCAN: Site-Specific Dashboards

Features:

- Sites can track the QC status of their PET submissions
- Record of all SCAN PET data submitted to date – downloadable as a csv file

PET Example

Site-Specific Dashboard > Western Iowa PET Data

Alert: PLEASE NOTE THAT THIS EXAMPLE DATA HAS BEEN FABRICATED AND DOES NOT REPRESENT ANY REAL ADRC, PARTICIPANT, OR DATA.

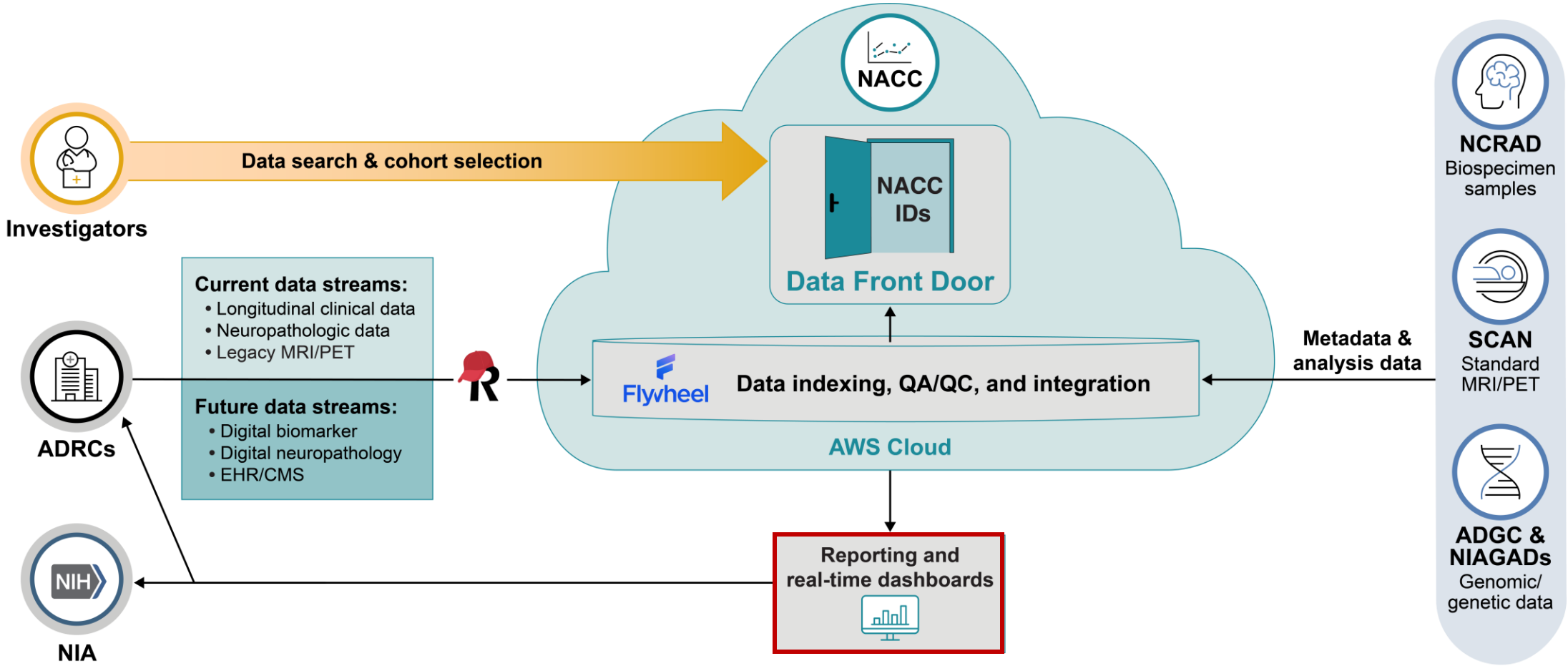
Review PET Data

Copy CSV Show 10 entries

Search:

ADRC	NACC ID	PTID	Study				QC Status	If failed, why?
			Study Date and Time	Image UID	Scanner Model	PET radiotracer		
Western Iowa	NACC462907	188	6/1/2022 0:00	I10160420	Biograph Horizon	Florbetapir	Passed	
Western Iowa	NACC114092	1189	4/1/2022 0:00	I10150975	Biograph Horizon	Flortaucipir	Passed	
Western Iowa	NACC228673	728	6/1/2022 0:00	I10150995	Biograph Horizon	PIB	Passed	
Western Iowa	NACC228673	728	6/1/2022 0:00	I10150996	Biograph Horizon	Flortaucipir	Passed	
Western Iowa	NACC42459	450	7/1/2021 0:00	I10033850	Biograph Horizon	NAV4694	Passed	

NACC is on a mission to modernize data collection, integration, and sharing to advance Alzheimer's research



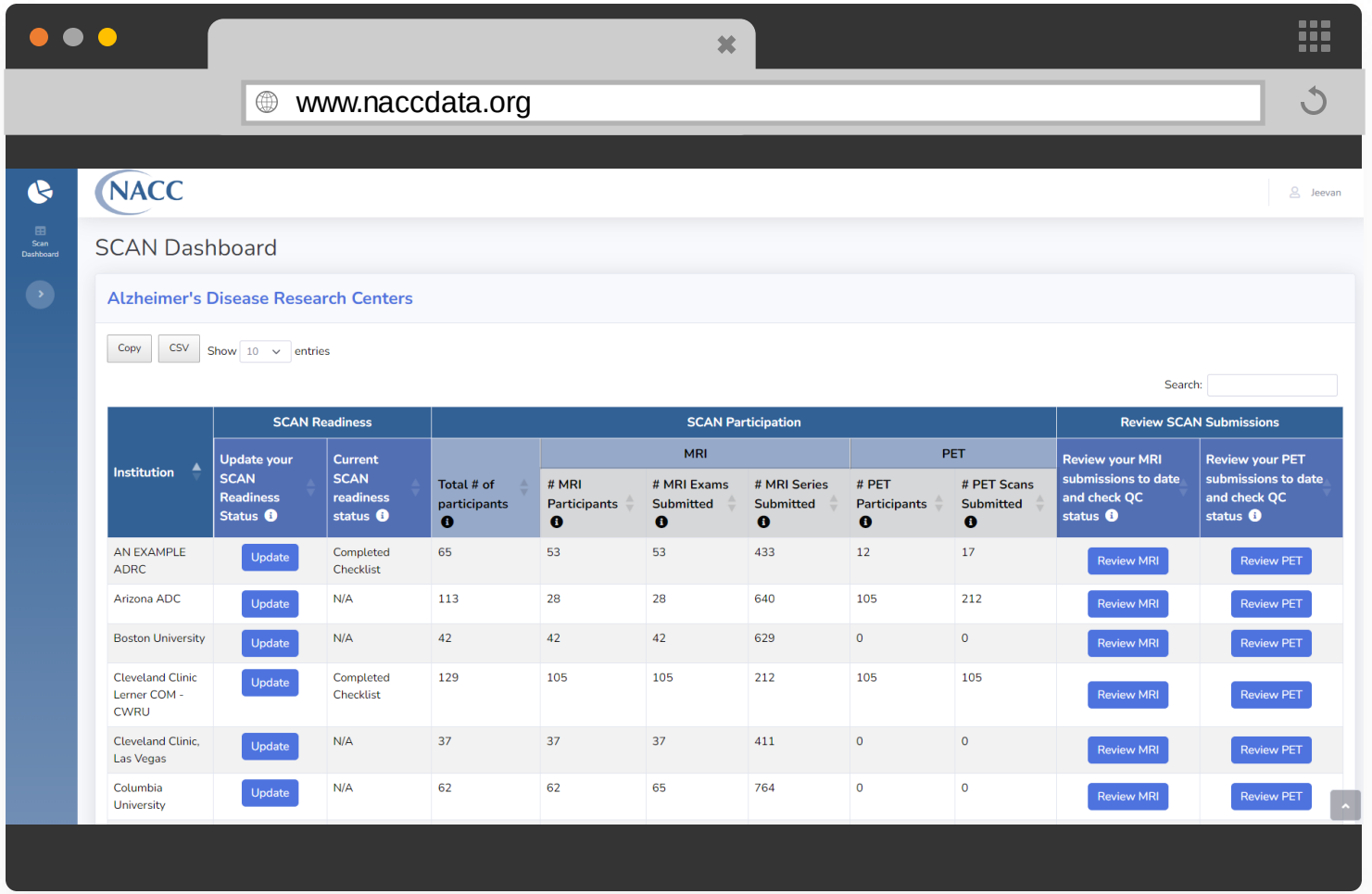
SCAN Dashboard Demo Station

Check out the demo!

Located in the in Foyer at the Swissotel, Chicago

Thursday, Oct 20th
5:30-6:00pm CT
After the Data Core Session

Friday, Oct 21st
9:00-9:30am CT
During the Networking Break



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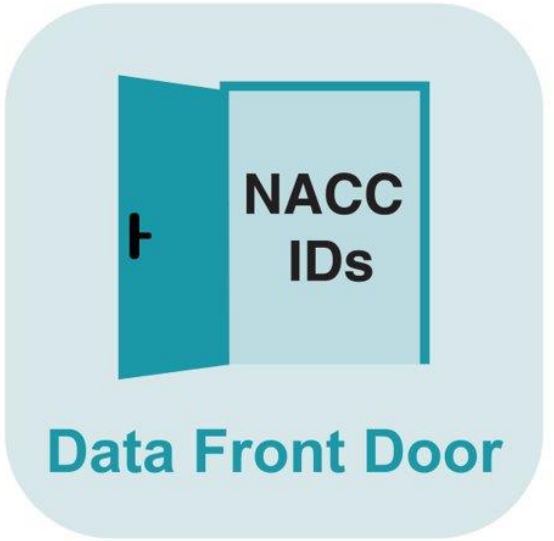
				MRI			PET			
	Update your SCAN Readiness Status	Current SCAN readiness status	Total # of participants	# MRI Participants	# MRI Exams Submitted	# MRI Series Submitted	# PET Participants	# PET Scans Submitted	Review your MRI submissions to date and check QC status	Review your PET submissions to date and check QC status
AN EXAMPLE ADRC	Update	Completed Checklist	65	53	53	433	12	17	Review MRI	Review PET
Arizona ADC	Update	N/A	113	28	28	640	105	212	Review MRI	Review PET
Boston University	Update	N/A	42	42	42	629	0	0	Review MRI	Review PET
Cleveland Clinic Lerner COM - CWRU	Update	Completed Checklist	129	105	105	212	105	105	Review MRI	Review PET
Cleveland Clinic, Las Vegas	Update	N/A	37	37	37	411	0	0	Review MRI	Review PET
Columbia University	Update	N/A	62	62	65	764	0	0	Review MRI	Review PET

How to Access the Data

Launch SCAN Public Dashboard
ADRCs and researchers can view summary data for full SCAN initiative and each ADRC

SCAN data accessible to all investigators
- MVP: Summary and analysis data available via NACC data request (connected to NACC IDs)
- Raw image access: LONI data request

Q4 2022 → Q1 2023 → Q2 2023 → Data Front Door

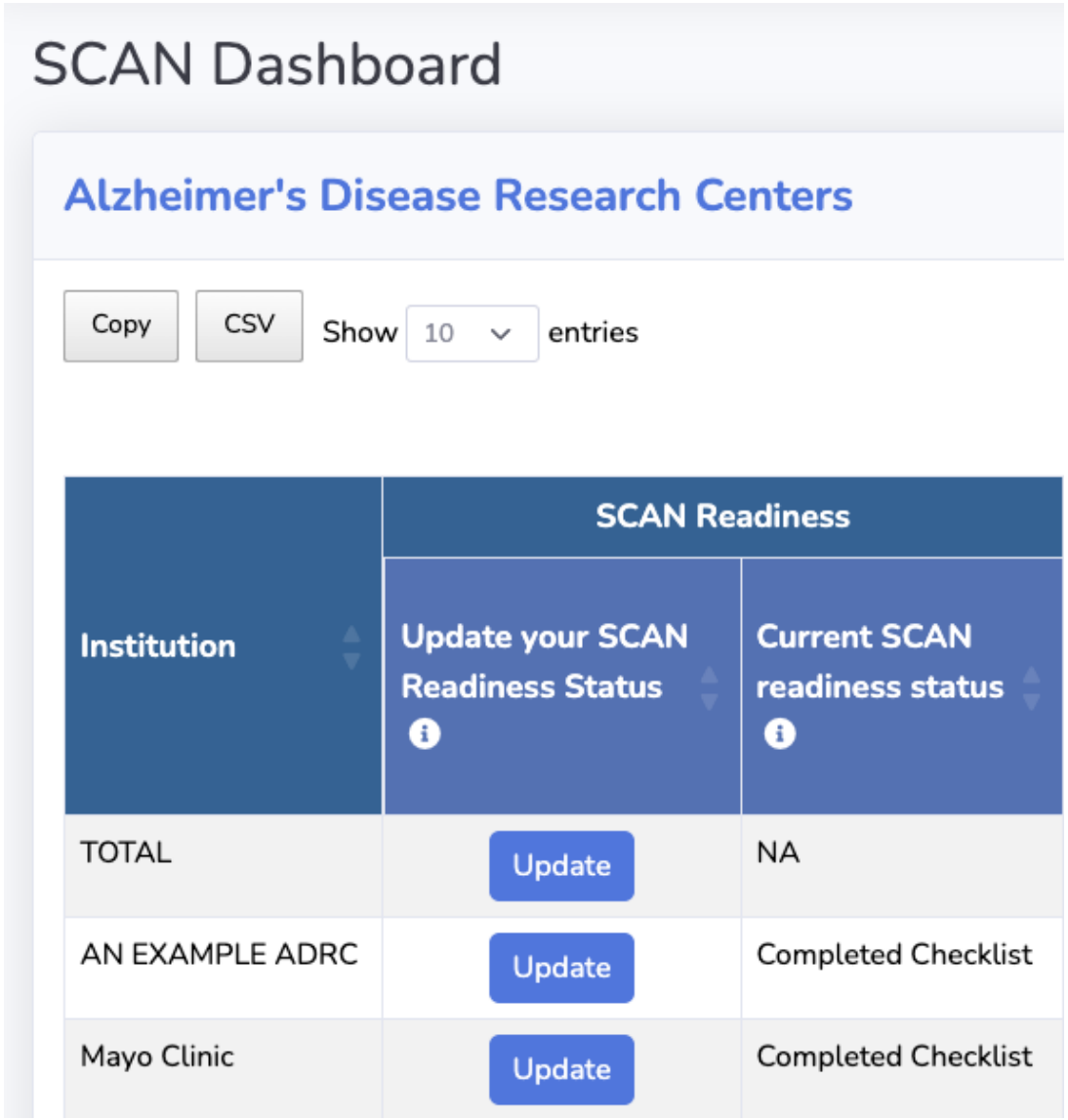


Launch SCAN Site-Specific Dashboards: ADRCs will be able to access their own SCAN data at NACC
- ADRCs can access and download their own SCAN data at NACC (connected to NACC IDs)
- QC feedback, summary, and analysis data
- Raw image access: LONI data request

Future: SCAN data searchable and accessible to all investigators through the Data Front Door
- Available to all investigators
- Includes analysis data
- Cohort selection tools available - multiple integrated data streams
- Raw image access: Automatic data requests submitted to LONI

Stay Tuned for the SCAN Survey

- Coming this November!
- Update your SCAN readiness using the SCAN MRI and PET Checklist (REDCap-based)
- Roadmap for getting SCAN ready
- In the future, ADRCs will be able to access their SCAN readiness anytime



Thank You

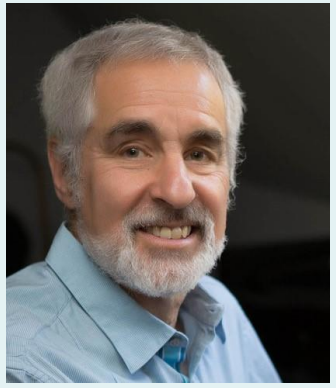
SCAN MRI team
-Clifford Jack MD (PI)
-Chadwick Ward
-Bret Borowski
-Christopher Schwarz
-Denise Reyes
-Leonard Matoush
-Robert Reid
-Anne Effron
-Gregory Preboske MS
-Jeffrey Gunter PhD
-Matthew Senjem MS

SCAN PET team
-William Jagust MD (PI)
-Bob Koeppe PhD
-Susan Landau PhD
-JiaQie Lee
-Pablo Aguilar
-Tessa Harrison

Other SCAN Contributors
-Charles DeCarli, MD
-Suzanne Baker

LONI
- Arthur Toga PhD
- Karen Crawford MLIS

NACC Team
- Bud Kukull, PhD
- Sarah Biber PhD
- Ben Keller PhD
- Dean Shibata MD
- **Jeevan Anandasakaran**
- **Brittany Hale**
- Hannah Rosentreter



WILLIAM JAGUST, MD
Berkeley Professor, Public Health and Neuroscience

CLIFFORD R. JACK, MD
Mayo Clinic Professor, Neuroscience

Bill Jagust and Clifford Jack will be available for questions during the Q+A at the end of the NACC session
2:45pm – 3:00pm CT

Connect with NACC

Sarah Biber, PhD

Biber@uw.edu

NACC

UNIVERSITY of WASHINGTON

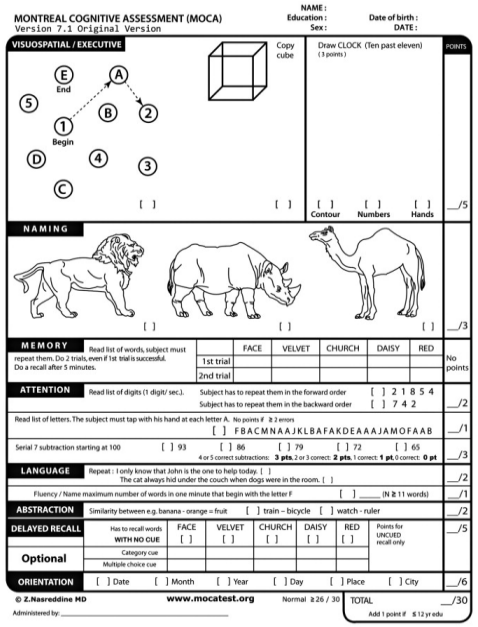
Moving Toward Routine Digital Data Collection

Sean Mooney, PhD

Thursday, October 20 – ADRC Fall 2022

Moving from Paper to Digital

There are substantial efforts to digitize existing paper-based or other administered assessments as phenotyping or diagnostic tools.


MONTREAL COGNITIVE ASSESSMENT (MOCA)
Version 7.1 Original Version

NAME :
Education :
Sex :
Date of birth :
DATE :

VISUOSPATIAL / EXECUTIVE — POINTS

Copy cube

Draw CLOCK (Ten past eleven) (3 points)

[ ] Contour [ ] Numbers [ ] Hands

/5

NAMING

/3

MEMORY — Read list of words, subject must repeat them. Do 2 trials, even if 1st trial is successful. Do a recall after 5 minutes.

	FACE	VELVET	CHURCH	DAISY	RED
1st trial					
2nd trial					

No points

ATTENTION — Read list of digits (1 digit/ sec.)

Subject has to repeat them in the forward order [ ] 2 1 8 5 4

Subject has to repeat them in the backward order [ ] 7 4 2

/2

Read list of letters. The subject must tap with his hand at each letter A. No points if ≥ 2 errors

[ ] F B A C M N A A J K L B A F A K D E A A A J A M O F A A B

/1

Serial 7 subtraction starting at 100

[ ] 93 [ ] 86 [ ] 79 [ ] 72 [ ] 65

4 or 5 correct subtractions: 3 pts, 2 or 3 correct: 2 pts, 1 correct: 1 pt, 0 correct: 0 pt

/3

LANGUAGE — Repeat : I only know that John is the one to help today. [ ]
The cat always hid under the couch when dogs were in the room. [ ]

/2

Fluency / Name maximum number of words in one minute that begin with the letter F [ ] ____ (N ≥ 11 words)

/1

ABSTRACTION — Similarity between e.g. banana - orange = fruit [ ] train – bicycle [ ] watch - ruler

/2

DELAYED RECALL

Has to recall words WITH NO CUE	FACE [ ]	VELVET [ ]	CHURCH [ ]	DAISY [ ]	RED [ ]	Points for UNCUED recall only

/5

Optional — Category cue / Multiple choice cue

ORIENTATION — [ ] Date [ ] Month [ ] Year [ ] Day [ ] Place [ ] City

/6

© Z.Nasreddine MD www.mocatest.org Normal ≥ 26 / 30

TOTAL /30

Add 1 point if ≤ 12 yr edu

Administered by: _____

MOCA

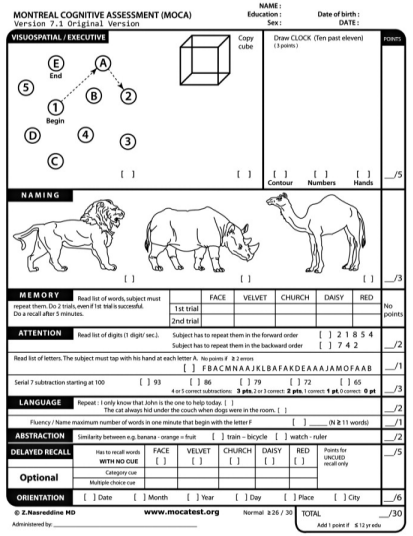
Paper to Tablet

Digital in clinic assessments

Moving from Paper to Digital

Advantages:

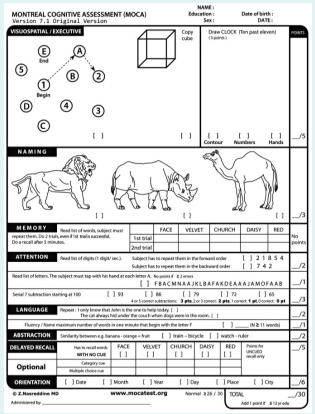
- Structured data elements
- Preservation of computable data
- No scanning – less likely to be lost in EMR or research EDC system
- Less waste



Paper to Tablet

Digital Data and Phenotyping

Clinically Administered



MOCA, Balance and Gait

Remotely Administered

Remote Cognitive Assessments

Out of Clinic Collection

Heart Rate, Mobility, Steps, Accidental Falls, Sleep, Consumer Testing, Home Monitoring

NACC

UNIVERSITY of WASHINGTON

Axes of Digital Data

There are many questions around data that can be collected. These could include:

- Active vs Passive out of clinic data collection
- A test that is established UDS vs novel
- A test that is Validated vs Innovative
- In clinic vs active assessments outside of clinical in person visit

Collaboration with Rhoda Au and Allan Levey

Overview

Digital data collection covers a lot of concepts and is very heterogenous

Many are collecting data and there are few, if any, standards or standardization

THE DIGITAL WILD WEST

Bringing Some Harmonization

At NACC, we feel that we should help standardize, harmonize, ensure efficacy, and collect established instruments

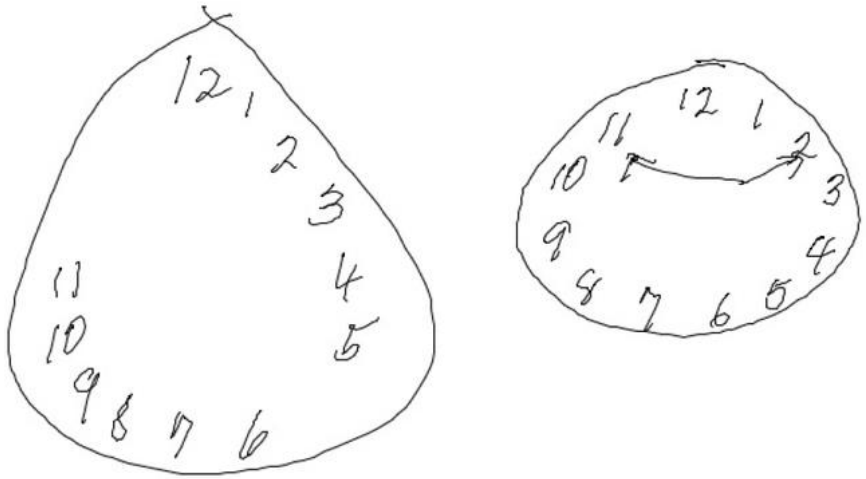
… And …

Facilitate discovery using new technologies that have research value that are very likely to be unharmonized

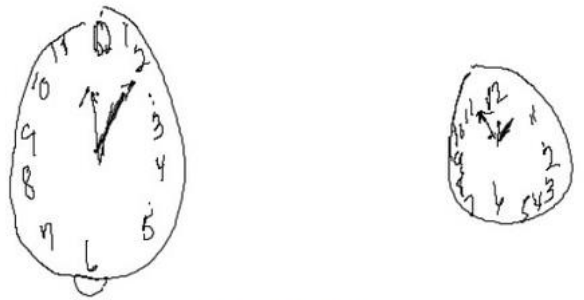
Significant Opportunity to Digitally Collect Established Tools

Established assessments can be implemented for in clinic and remote administration digitally and include:

- MOCA
- Image recall tests
- Digital clock drawing test
- Category naming tests
- Candy theft picture description
- TabCAT
- DANA
- VisMET



(b) Alzheimer's Disease



(c) Parkinson's Disease

Digital Tools Enable AI-Based Decision Support

Human interpretation takes time, is variable, and could potentially be replaced by supervised machine learning algorithms

Consumer Digital Health Tools and New Data Digital Markers (In clinic or out of clinic)

Out of clinic administered tests or digital health tools are far less standardized but are important for research.

There are needs:

- Access to participants and good phenotypes
- Sandboxes for data collection and analysis
- Unbiased assessments for data

Digital Data and Phenotyping Supplement

GOAL: Establish a common platform and develop processes for ADRCs to collect and share digital biomarker data

Aim 1: Demonstrate intake of existing pipeline with Boston University
- Send existing data for five tasks that are in Linus to NACC, connected to NACC IDs

Aim 2: Analyze the integrated clinical and digital data in the NACC cloud

Aim 3: Establish the collection of prospective digital data from 2 ADRCs who will pilot the same digital tasks

Digital Data and Phenotyping

UDS Tests

Digital clock drawing test

- Administered via Linus tablets

Category naming tests

- Digital recall/memory test

Non-UDS Tests

Candy theft picture description

- Capturing digital voice recordings

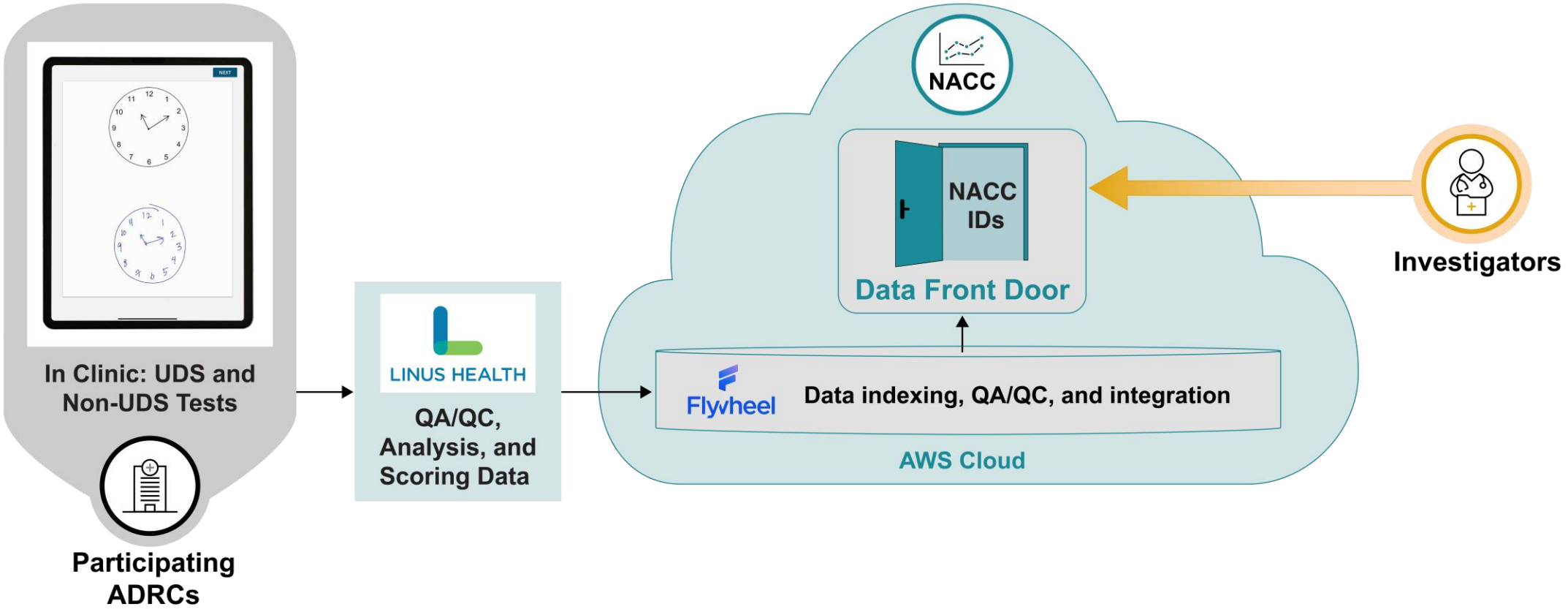
TabCAT

- Cognitive, memory, language, and motor skills and visuospatial tests

VisMET

- Visuospatial memory assessment with eye tracking

Administrative Supplement: Digital Data and Phenotyping



Open Science on Digital Data

Data Science 'Community Challenges' are a popular way to do science

They pose questions that data scientists can answer and the answers are only known by the organizers

These challenges have facilitated unbiased improvement in machine learning in many fields

My group (Mooney) has been leading, participating, and advising these challenges for decades

DREAM CHALLENGES
powered by Sage Bionetworks

Open Science on Digital Data

Collection of digital data opens the possibility of doing new approaches to facilitate open science

DREAM Challenges and Kaggle, have platforms for building and evaluating machine learning

We are strategizing a potential challenge around data on the most technical forefront of potential markers of disease or treatment response such as Digital Recordings of clinics

Connect with NACC

Stay Tuned!

Digital Footprint Survey for feedback from ADRC digital capability

We are also developing a digital roadmap and will, with Rhoda Au's team, be looking to collaborate with ADRCs!

Sean Mooney, PhD and Sarah Biber, PhD

sdmooney@uw.edu | biber@uw.edu

NACC

EPIDEMIOLOGY
SCHOOL OF PUBLIC HEALTH

Thank you!

The New NACC Directory

Laura McLeod

October 21, 2022 at 2:40 pm | NACC Session

Overview

Purpose:

- To provide resource with contact information about ADRCs, NACC, and NACC Strategic AD/ADRD partners

Previously:

- Called the ADRC Personnel Directory
- Limited to only ADRC information and was a static document

V1.0

The new NACC directory is:

- Comprehensive, spanning across ADRD organizations
- Online
- Interactive
- Dynamic

Content Timeline

1. ADRC Leadership and Committee information
2. Individuals update their information
   - Confirmed/approved information is published
3. Monthly reporting/freeze process
4. Portal/FlyWheel access management
5. Listserv management

Advantages

- ✓ Information is always up to date
- ✓ Ability for members to update information themselves
- ✓ Search interface to find content you need
- ✓ Allows members to find and connect with others
- ✓ Easier for researchers across the world to identify potential collaborators from across the ADRC program

Key Components

Content Management:

- Members update their own information
- Administrators update Center information
- NACC updates Committee information

Authentication system

Published content:

- Private *(with email addresses)*
- Public *(without email addresses)*

Search the Directory now!

Go to bit.ly/NACCDirectory

or scan this QR code!

NACC Directory

This directory provides information about ADRC, NACC and NACC Strategic AD/ADRD partners.

General ADRC Information

(address, website, grant #s, etc)

ADRC Contact Information

ADRC Leadership Information

ADRC Administrators

ADRC Core Leaders

ADRC Directors

Committee/WorkGroup information

ADRC Committees

Electronic Data Capture Workgroup

NACC Committees

Share your feedback!

Information table

Thursday, Oct. 20th

- 3:10 – 3:30 p.m. (During Networking Break)
- 5:30 – 6:00 p.m. (During Administrators Gathering)

Friday, Oct. 21st

- 9:00 – 9:30 a.m. (During Networking Break)
- 1:00 – 1:45 p.m. (Second half of Lunch Break)

Timeline

1. ADRC Leadership and Committee information
   (public version)
2. Individuals update their information
   - Confirmed/approved information is published
3. Monthly reporting/freeze process
4. Portal/FlyWheel access management
5. Listserv management

Ongoing: Automated Reminders to members/Center Administrators to review/update information on a bi-annual basis

Thank you to Center Administrators + NACC!

- Andrea Schmitt (Arizona ADRC)
- Beverly Young (Boston University ADRC)
- Anna Sturtevant & Darcy Loviscek (Cleveland ADRC)
- Allison Heaps (Columbia University ADRC)
- Sara Patillo (Duke/UNC ADRC)
- Cecelia Manzanares (Emory University, Goizueta ADRC)
- Christy Steinway-Rodkin (1Florida ADRC)
- Sarah Van Heiden (Indiana University ADRC)
- Jamie Lester (Johns Hopkins ADRC)
- Catherine Ribeiro (Massachusetts ADRC)
- Josie Williams (Mayo Clinic ADRC)
- Allison Ardolino (Mount Sinai School of Medicine ADRC)
- Freley Hosannah & Kirsten Calvin (Nevada Exploratory ADRC)
- Jill Prestopnik (New Mexico Exploratory ADRC)
- Eskedar Alem (Northwestern ADRC)
- Karyn Marsh (NYU ADRC)
- Heather Schiffke (Oregon Health and Science University, ADRC)
- Kathy Jedrziewski (Penn ADRC/Penn Memory Center)
- Annie Barz (Rush University Alzheimer's Disease Center)
- Eric Shipp (South Texas ADRC)
- Nusha Askari (Stanford ADRC)
- Carol Chambless (UAB Exploratory ADRC)
- Delia Roberts (UC Davis ADRC)
- Andrea Wasserman (UC Irvine, ADRC)
- Emily Little (UCSD Shiley-Marcos ADRC)
- Rosalie Gearhart & Harli Grant (UCSF ADRC)
- Anne Arthur (University of Kansas ADRC)
- Beverly Baesler (University of Kentucky ADRC)
- Arijit Bhaumik & Nancy Laracey (University of Michigan ADRC)
- Leslie Dunn & Kathie Savage (University of Pittsburgh ADRC)
- Annika Noreen (University of Washington ADRC)
- Helena Chui (USC ADRC)
- Jenna Boué (Vanderbilt Exploratory ADRC)
- Sharon Letchworth & Hari Vittal Rao (Wake Forest University, ADRC)
- Krista Moulder (Washington University Knight ADRC)
- Hanna Blazel (Wisconsin ADRC)
- Charlene Bloch (Yale University ADRC)

NACC

Amy Young, Hannah Rosentreter

Brendan Smith, Janene Hubbard

Ben Keller, Clair Cassidy