

RADx Tribal Data Repository

Tribal Consultation



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Agenda

- Opening Blessing
- Welcome and Introductions
- NIH RADx Tribal Data Repository
- Tribal Discussion, Comments, Issues, Testimony, Priorities
- Wrap Up and Next Steps
- Closing Prayer



A RADx Tribal Data Repository will provide American Indian and Alaska Native (AI/AN) data collected across the RADx Initiative

- An independent Tribally governed data repository that incorporates and sustains tribal sovereignty
- Supports and promotes AI/AN researchers and programs
- Helps to better understand the impacts of COVID-19
- Provides research support to better inform and develop policies to address health disparities

Communities of Color Are Most Impacted

Rate ratios compared to Whites	American Indians or Alaska Natives	Asian Americans	Black/African Americans	Hispanics or Latinos/as
Cases ¹	1.8x	0.6x	1.4x	1.7x
Hospitalized ₂	4.0x	1.2x	3.7x	4.1x
Deaths ³	2.6x	1.1x	2.8x	2.8x



COVID-19 Testing Across the U.S.

(circa July 09, 2021)

United States Laboratory Testing

Commercial and Reference, Public Health, and Hospital Laboratories

USA

472,527,865
TESTS REPORTED

CDC Updated: July 6, 2021

USA

35,842,336
POSITIVE TESTS

CDC Updated: July 6, 2021

USA

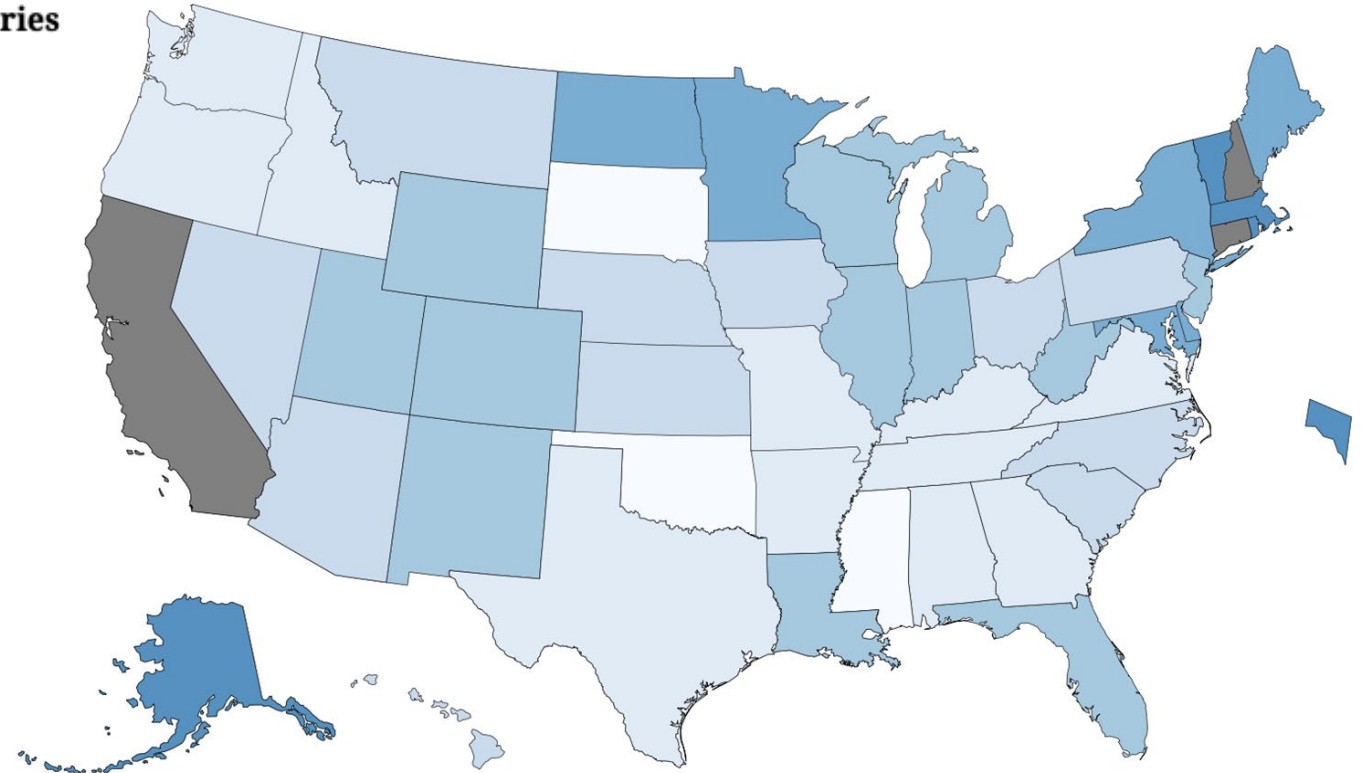
3%
OVERALL %
POSITIVE

CDC Updated: July 6, 2021

<https://www.cdc.gov/covid-data-tracker/index.html>



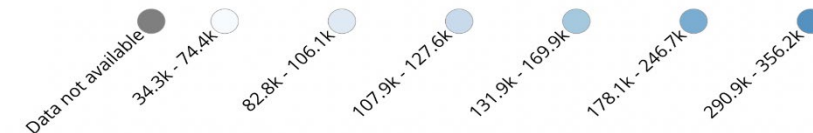
Preliminary data: Reported by U.S. Laboratories including Commercial and Reference, Public Health, and Hospital
Totals may include antibody data from some states



Territories

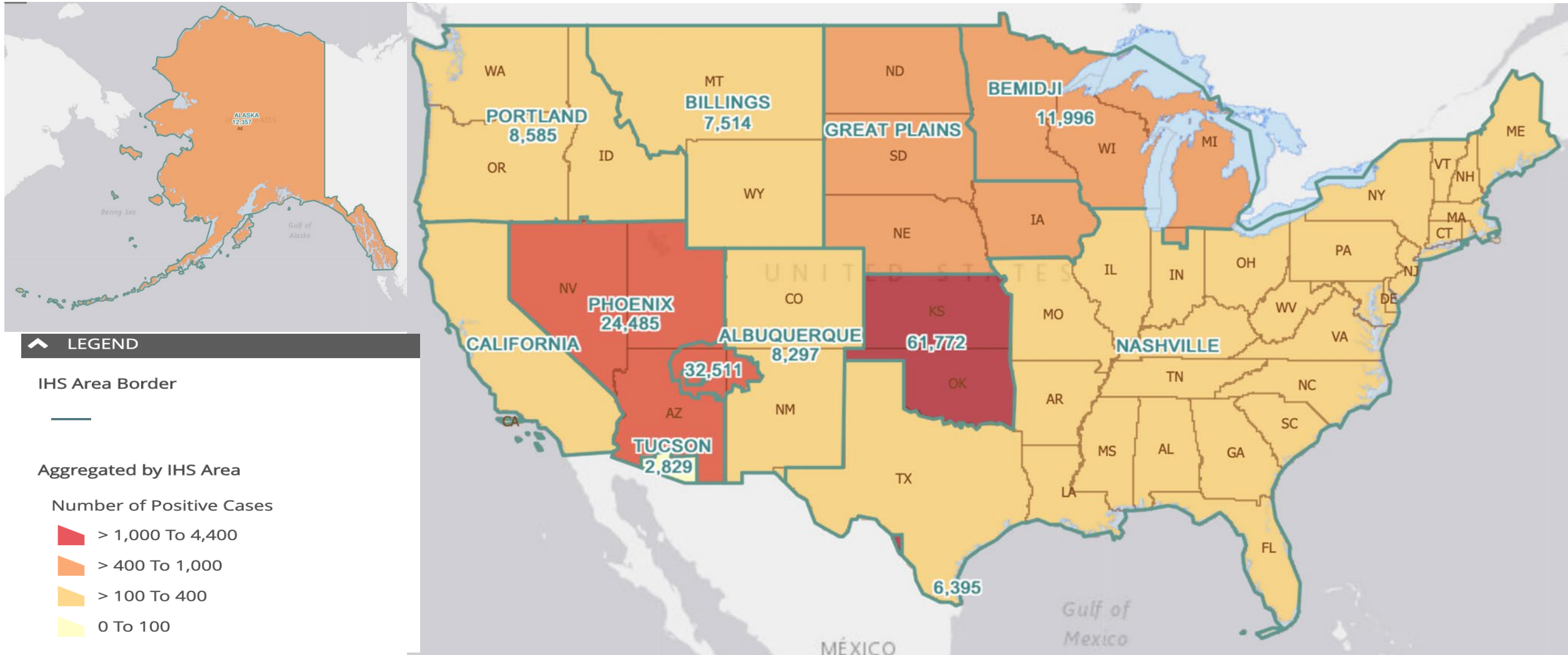
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Cumulative Tests Performed per 100,000



COVID-19 Reported Cases by Indian Health Service Area¹

(circa through July 09, 2021)



¹ <https://maps.ihs.gov/portal/apps/StoryMapBasic/index.html?appid=5411113222c74d23bf09d6fa8c5909fd>

Rapid Acceleration of Diagnostics (RADx):



Goal:

- Accelerate innovation in and development, commercialization, and implementation of COVID-19 testing

Approaches:

- Fund early innovative diagnostic technologies
- Advance late-stage diagnostic technologies to expand testing infrastructure
- Identify effective testing implementation strategies in underserved populations
- Work with other government agencies (FDA, BARDA, CDC)

Rapid Acceleration of Diagnostics (RADx): Programs



Program	Description
RADx-Tech	Competitive, rapid three-phase challenge to identify the best candidates for at-home or Point-of-Care COVID-19 tests
RADx-Advanced Technology Platforms (RADx-ATP)	Rapid scale-up of advanced Point-of-Care technologies and laboratories to accelerate, enhance and validate utility of ultra-high throughput machines and facilities
RADx-Radical (RADx-rad)	Develop and advance novel, non-traditional approaches, or new applications of existing testing approaches
RADx-Underserved Populations (RADx-UP)	Interlinked community-engaged projects on implementation strategies to enable and enhance COVID-19 testing in underserved and/or vulnerable populations

RADx **U**nderserved **P**opulations Project: (RADx-UP)



Coordination and Data Collection Center (CDCC)

- Provide leadership and project management
- Data harmonization, storage, management
- Coordinate governance

Collaborative Clinical Research Network

- Interlinked community-engaged implementation strategies and intervention projects to COVID testing of underserved, under-resourced, underrepresented, rural, and/or vulnerable populations

Social, Ethical, and Behavioral Implications

- Understand social determinants and ethical, social, and behavioral issues associated with testing/diagnostic technologies and information/data collection and sharing
- Conduct outreach and dissemination activities

RADx Initiative: Strategy



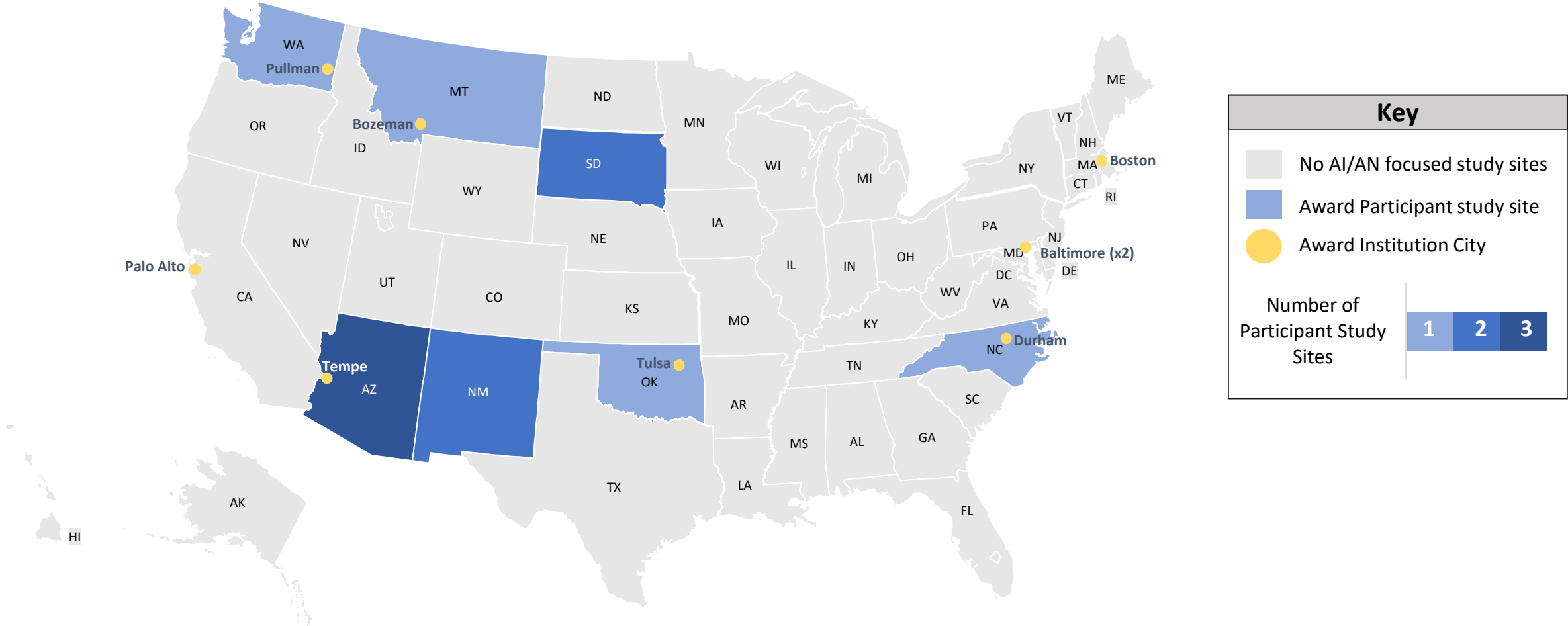
Provide access to de-identified RADx and related data, algorithms, and other capabilities to address compelling questions



- The RADx Initiative supports ten adult and pediatric studies collecting primarily American Indian/ Alaska Native (AI/AN) data
- The RADx Tribal Data Repository (RADx-TDR) will be a collaborative resource for researchers working with RADx AI/AN data

RADx-UP Awarded Projects with a Focus on American Indian or Alaskan Native Populations (10 total)

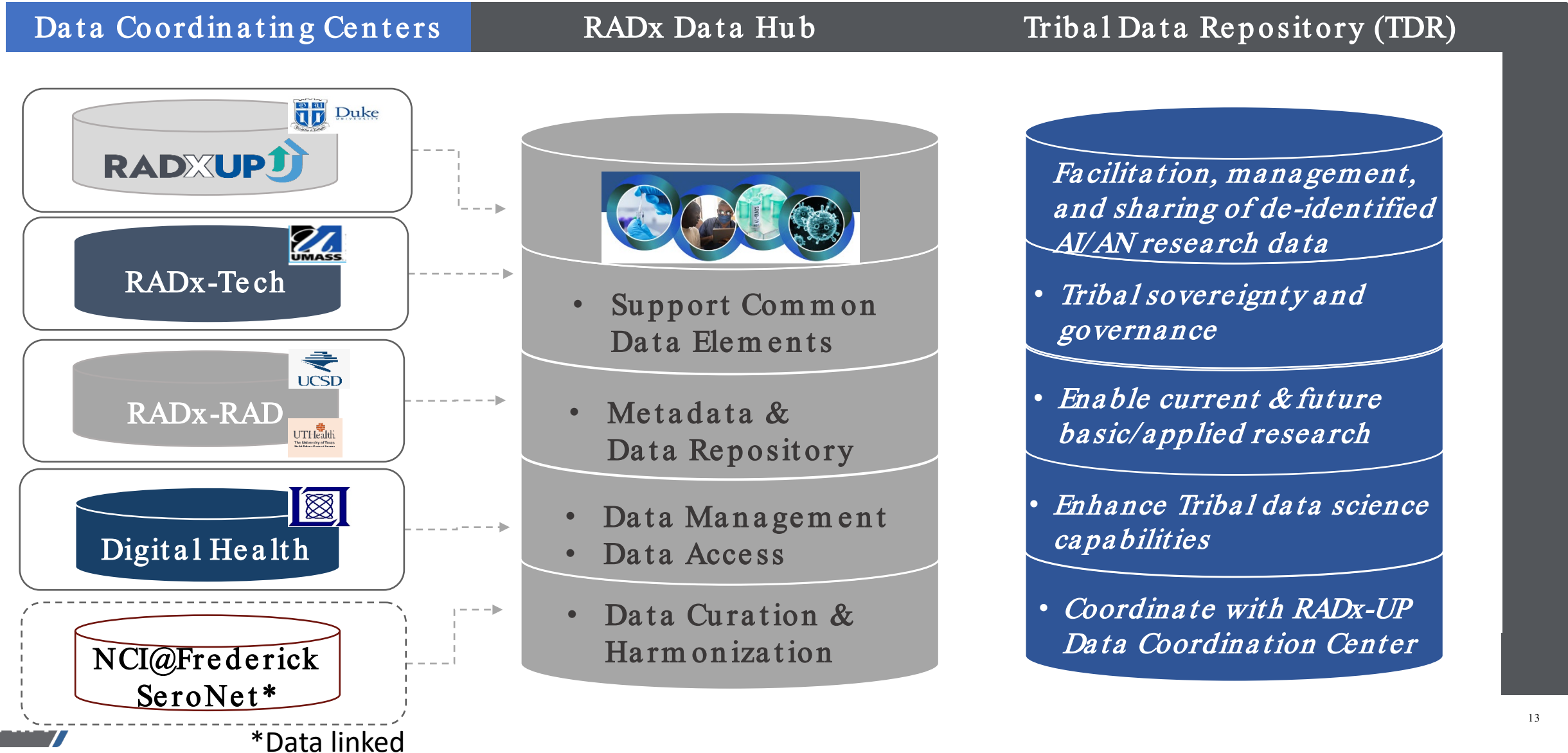
The awarded projects include the RADx-UP Phase I and Return to School Program awarded projects. This map shows projects that focus on AI/AN populations.



The RADx Tribal Data Repository will be *an independent Tribally governed data repository* that:

- Incorporates and sustains tribal sovereignty
- Provides AI/AN research data collected across the RADx Initiative
- Provides better understanding of the impact of COVID-19 and data to the tribal health boards
- Informs and supports policies to address current and future pandemics
- Promotes AI/AN biomedical researchers and programs

Issue: The NIH RADx Data Hub may not meet cultural, governance, and sovereignty needs and expectations to support and share American Indian/Alaska Native (AI/AN) research data



Rapid Acceleration of Diagnostics (RADx): Some Points Considered



F.A.I.R¹



C.A.R.E²



NIH TRIBAL HEALTH RESEARCH OFFICE³

- Strengthen Engagement built on Trust Between Researchers and Tribal Nations
- Train Researchers to Responsibly and Respectfully manage and share AI/AN Data
- Ensure Research Practices Align with Laws, Policies, and Community Partners

¹ F.A.I.R. https://static1.squarespace.com/static/5d3799de845604000199cd24/t/5da9f4479ecab221ce848fb2/1571419335217/CARE+Principles_One+Paggers+FINAL_Oct_17_2019.pdf

² C.A.R.E https://static1.squarespace.com/static/5d3799de845604000199cd24/t/5da9f4479ecab221ce848fb2/1571419335217/CARE+Principles_One+Paggers+FINAL_Oct_17_2019.pdf

³ TRIBAL CONSULTATIONS: DATA SHARING <https://dpcpsi.nih.gov/thro/tribal-consultations/draft-policy-for-data-management-and-sharing> COVID RESEARCH <https://dpcpsi.nih.gov/thro/tribal-consultations/covid-19>

PURPOSE: The RADx Tribal Data Repository (RADx-TDR)

- **Support new initiatives** for broad sharing of de-identified Tribal data to address scientific questions concerning testing and vaccination for COVID-19
- **Support** collection of Personal Identifying Information/Protected Health Information (PII/PHI) that would be retained by the RADx-TDR
- **Partner** with the RADx-UP Coordination and Data Collection Center (CDCC)
- **Link AI/AN research data from RADx Programs** and information to the RADx Data Hub and **retain data/tool sovereignty**



- **Provide pathways** to build capacity for big data research skills for Tribal scholars through pre- and post-doctoral mentored fellowships
- **Culturally responsive** to governance and sovereignty issues of Tribal communities regarding data, tools, and algorithms.
- NIH is **collaborating** with THRO, AIHEC, and UND to develop a data science curriculum to be piloted at 3 Tribal Colleges & Universities (TCU) with intentions to expand to all 32 TCUs.

Rapid Acceleration of Diagnostics (RADx):

Suggested Topics to Consider



- How should the Tribal Data Repository be established to incorporate and sustain tribal sovereignty for data collected and stored?
- What are your expectations for data ownership? Data stewardship?
- What are your expectations for data governance and data access?
- What are your expectations for sustainability of the RADx Tribal Data Repository once the initial RADx Initiative has ended?
- What is your guidance to address data ownership, stewardship, and governance issues for rural, urban, or non-reservation dwelling individuals who self-identify as American Indian/Alaska Native?