

The NIH Open Measurement Network Initiative for AD/ADRD (OMNI ADRD): Applied Validity and Community-Driven Measurement



OMNI ADRD

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Accurate and sensitive measurement of cognitive change is essential for AD/ADRD prevention research, particularly in midlife when neurobiological changes precede clinical symptoms. **The NIH Open Measurement Network Initiative for AD/ADRD (OMNI ADRD)** is a new NIA-funded initiative across 25 institutions, designed to address this critical gap by (1) evaluating new and existing digital measurement tools for midlife cognitive change assessment, and (2) implementing cognitive change measures in an open platform for broad dissemination.

INTRODUCTION

As part of its mission, OMNI ADRD seeks to advance measurement that is equitable across populations. Along these lines, the OMNI ADRD Applied Validity Core examines the usability and validity of remote measurement tools for AD/ADRD prevention research. It is dedicated to (1) fostering community engagement, (2) enhancing accessibility, (3) promoting usability, and (4) guiding responsible interpretation of network measurement tools.

METHODS

The Applied Validity Core includes expertise in neuropsychology, community engaged research, and digital assessment. Regular workgroup meetings and other progress meetings support the Core’s mission by detailing best practices for community-driven measurement and gaps in the literature with implications on access to and interpretability of assessment instruments, informing development of an Applied Validity Rubric.

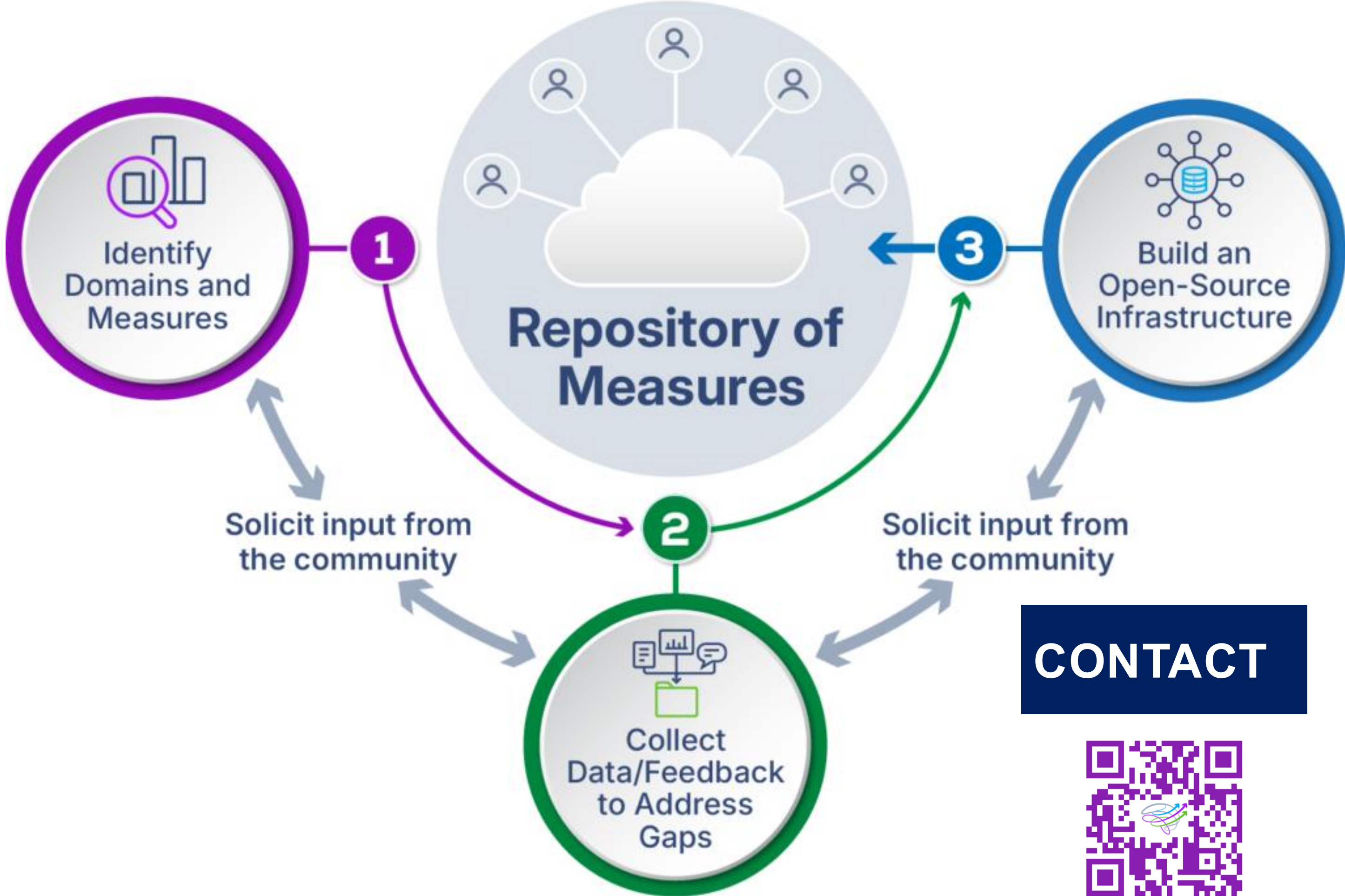
RESULTS

Progress made by the Applied Validity Core includes the establishment of a Community Advisory Board, members of which represent both lived experience (e.g., affected individuals and caregivers) as well as professional organizations working with affected families. A central milestone is the development of an Applied Validity Rubric for structured review of OMNI candidate measures, organized around three dimensions: accessibility, generalizability, and value alignment. The rubric operationalizes community-defined priorities alongside psychometric evidence to guide equity-centered measure evaluation. An initial resource repository supporting rubric implementation is also being established.

CONCLUSIONS

Inclusion of community voices and lived experience input in the development and evaluation of measurement tools is vital for accurate and generalizable assessment. As immediate next steps, the Core team will apply the rubric to an initial set of OMNI candidate measures and initiate Community Engagement Studios to inform ongoing measure development and rubric refinement.

OUR APPROACH



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graph TD; A((1 Identify Domains and Measures)) -- "Solicit input from the community" --> B((2 Collect Data/Feedback to Address Gaps)); B -- "Solicit input from the community" --> C((3 Build an Open-Source Infrastructure)); C --> A; A <--> R((Repository of Measures)); B <--> R; C <--> R;
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The diagram illustrates the OMNI ADRD approach as a continuous cycle. It begins with 'Identify Domains and Measures' (Step 1), which leads to 'Collect Data/Feedback to Address Gaps' (Step 2). Step 2 then leads to 'Build an Open-Source Infrastructure' (Step 3), which loops back to Step 1. A central 'Repository of Measures' is connected to all three steps. Arrows labeled 'Solicit input from the community' point from the community towards the cycle. The steps are numbered 1, 2, and 3 in colored circles.

CONTACT



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