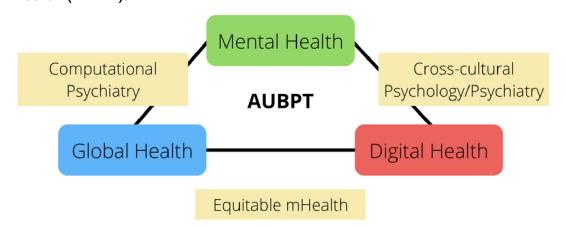
Gamifying Risk Identification for Alcohol Use Behaviors Across Countries and Cultures



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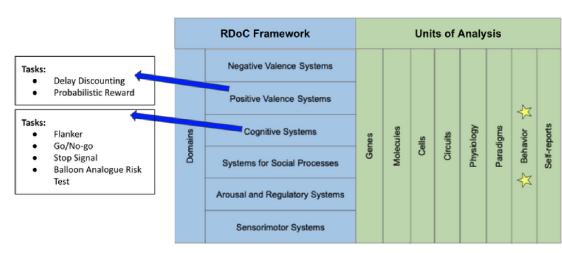
Background

- A complex web of **biopsychosocial factors** underlie predisposition towards harmful alcohol use.
- We will continue to work on the Alcohol Use Behavioral **Phenotyping Test (AUBPT)** – a computer-based dimensional assessment that can be culturally adapted to assess alcohol use behaviors across countries.
- AUBPT includes **gamified versions of behavioral paradigms** ("tasks") that can evaluate the transdiagnostic biopsychological constructs under the positive valence and cognitive domains of the Research Domain Criteria (RDoC) proposed by the National Institute of Mental Health (NIMH).



Mapping Our Tasks to RDoC

• RDoC is a NIMH framework that aims to investigate biobehavioral mechanisms behind multiple disorders.



Subteam Structure

Content Conducts literature review on RDoC and behavioral tasks: sets task content and verifies

construct validity

App Development Manages the design and development of BART, Stop-signal, Delay Discounting and other applications used in the project.

Implementation Works with global partners to translate and culturally adapt tasks; prepares culturally appropriate survey for app

Systematic Review Screens research studies; extracts data to find gap in research regarding dual diagnosis and RDoC paradigms

Collaborators





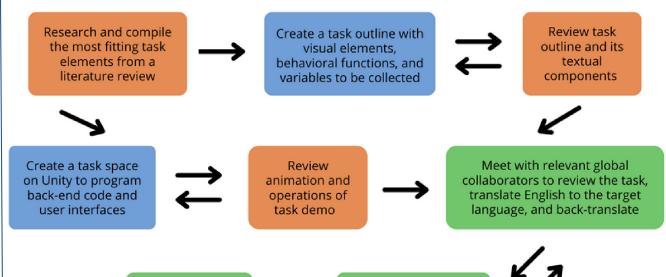


We are currently partnering with collaborators in São Paulo, Brazil and Moshi, Tanzania to adapt and implement the AUBPT tasks in those regions:



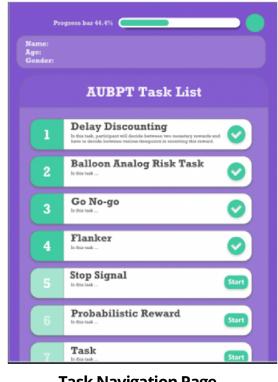


Task Development Workflow



Use translated Compare the original task for cultural and back-translated adaptation text for validation

Current Outputs





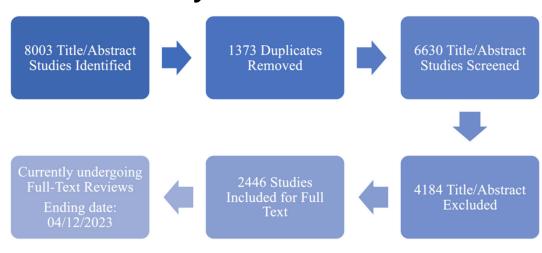
Stop Signal Task



Task Navigation Page

Delay Discounting Task

Systematic Review



Next Steps

- Test AUBPT's ability to **predict risk of alcohol use disorders**
- Create an open-source multilingual computer application for AUBPT
- Create open-source validated artificial intelligence models
- Adapt AUBPT in Portuguese, Swahili, and Hindi