Concurrent Session 1a

Integrating data to improve education & youth wellbeing



Amy Hawn Nelson

Director of Training & Technical Assistance *Moderator*





At any point, drop questions into the chat.

Agenda

- Welcome
- Jessica Cunningham, KYStats
- Scott Gaul, CT Office of Policy & Management
- Regan Foust, Children's Data Network
- Maggie Reeves, GA Policy Lab
- Q&A



Jessica Cunningham KYSTATS





Kentucky Center for Statistics



Uniting our data.

Informing our Commonwealth.

Kentucky Department of Education

- K12 Students
- K12 Teachers
- K12 Staff
- · Career/Technical Education
- Teacher/Education Certification
- · Governor's Scholar Program

Council on Postsecondary Education

Public & Independent Postsecondary

Commission on Proprietary Education

Proprietary Colleges

Bureau of Labor Statistics

· Labor Market Information

Labor Cabinet

• Unemployment Insurance (UI) Claims & Wages

Department of Workforce Investment

- · Workforce Training
- Office for the Blind & Vocational Rehab
- Job Seekers
- Focus
- Apprenticeships

Education and Workforce Development Cabinet

Skills U (Adult Education)

Finance & Administration Cabinet

- Revenue Data
- Financial Aid Kentucky Higher Education Assistance Authority

Kentucky Longitudinal Data System (KLDS) Powered by KYSTATS



Cabinet for Health and Family Services

- Early Learning Child Care
- Supplemental Nutrition Assistance Program (SNAP)
- Temporary Assistance For Needy Families (TANF)
- SNAP Employment & Training Program (SNAP E&T)
- Medicaid Eligibility and Claims
- Vital Statistics
- TWIST Foster Care & Adoption
- HANDS

Kentucky Board of Nursing Medical Licensure Board

Nursing Licenses

Justice and Public Safety Cabinet

Corrections

Industry Certification

- National Institute for Automotive Service Excellence (ASE)
- Computing Technology Industry Association (CompTIA)

Other Data Sources

- Kentucky Chamber of Commerce Talent Pipeline Management
- Governor's Office Of Early Childhood Head Start
- Coleridge Initiative Out of State Education and Employment and Wage Data

Kentucky Transportation Cabinet

Driver Licensing

In-Progress Relationships

• Justice and Public Safety Cabinet - Department of Juvenile Justice

Organization History

- Established as an independent state agency by the Kentucky General Assembly in 2013.
- Administratively attached to the Kentucky Education and Labor Cabinet.
- Board membership expanded in 2019 to include the Cabinet for Health and Family Services.



KYSTATS Legislation

KYSTATS is charged with collecting accurate data in the
Kentucky Longitudinal Data System
in order to link the data and generate
timely reports about student performance through employment to be used to guide decision makers in improving the Commonwealth of Kentucky's education system and training programs.



KYSTATS Board of Directors

Education & Labor Cabinet Secretary (CHAIR)

Kentucky
Department
of
Education
(KDE)
Commissio
ner

Council on Postsecond ary Education (CPE)
President

Kentucky
Higher
Education
Assistance
Authority
(KHEAA)
Executive
Director

Cabinet for Health and Family Services (CHFS)
Secretary



KYSTATS Research Agenda

2020-2022 Focus: Equity

- 1. Expand data access and use to inform equity issues and barriers related to birth through workforce
- 2. Evaluate outcomes and barriers for education and workforce programs over time
- 3. Connect supply and demand of Kentucky future workforce
- 4. Measure impact of out-of-state education and workforce migration



Proposed 2023-24 Research Agenda Themes

- 1. Access, Usage, & Usability
- 2. Applying an Equity Lens
- 3. Changes & Trends Since COVID
- 4. Expanded Modeling & Prediction



Access, Usage & Usability

KYSTATS will focus on equitable access and wider use of its products by a broad and diverse audience.

- ACCESS: Compliant with all federal and state laws and guidelines related to fair and reasonable access.
- USAGE: Promoting greater awareness and use of KYSTATS research and data.
- USABILITY: Continually working to find a balance between inclusiveness of data and usability of information.



Applying an Equity Lens

Incorporating KYSTATS' Equity Committee work, we will apply an equity lens to our products by analyzing and reporting data related to:

- Backgrounds
- Experiences
- Opportunities
- Access



Changes & Trends Since COVID

Continual assessment of changes and trends in the state, tracking these over the course of time, and paying particular attention identifying differences for key populations in the state.



Expanding the use of Modeling & Predictive Analytics

Leverage the KLDS to provide predictive and explanatory analyses to make connections between key transition points in the birth through workforce continuum and to assess their likely impact on outcomes across systems and over time.



KENTUCKY & COVID-19

How does KYSTATS add value to this conversation?

- 1. Connecting data across systems to understand impacts in more than one area and their interactions.
- 2. Using the longitudinal data to understand how what we see differs from what would have been expected.
- 3. We can begin to project potential long-term impacts.



KENTUCKY & COVID-19: Our Approach

- 1. What changes and trends are we able to observe in key metrics from birth through the workforce using the Kentucky Longitudinal Data System?
- 2. What differences are present when comparing these metrics amongst different populations in the state?
 - Race/Ethnicity
 - SES
 - Gender
 - Geography



KENTUCKY & COVID-19: Our Approach (Continued)

- 3. Is what we observed different from what would have been expected?
- 4. What additional factors (policy, programmatic, environmental, etc.) were or are present?
- 5. What is the potential long-term impact of observed changes in these metrics (i.e., why do these metrics matter)?



Ready to Learn More?

kystats.ky.gov

@kystats

Jessica Cunningham, PhD
Executive Director
jessica.cunningham@ky.gov



Scott Gaul Chief Data Officer, Connecticut







CT SLDS TO IDS TRANSITION

OVERVIEW

- P20 WIN is Connecticut's state longitudinal data system and is the mechanism by which data from multiple agencies are matched to address critical policy questions.
- P20 WIN informs sound policies and practice through secure sharing of longitudinal data across participating agencies to ensure that individuals successfully navigate supportive services and educational pathways into the workforce.
- P20 WIN is a federated data system that has been operational since 2014.
- P20 WIN is used to answer policy questions, fulfill federal and state reporting requirements; support program review; inform school districts of postsecondary outcomes; provide employment and wage outcome data; and support research and analysis on a variety of topics.





Participating Agencies

- Department of Labor (DOL) Also the Data Integration Hub
- State Department of Education (SDE)
- Office of Early Childhood (OEC)
- CT State Colleges and Universities (CSCU)
- University of Connecticut (Uconn)
- Department of Social Services (DSS)
- Department of Children and Families (DCF)
- Office of Higher Education (OHE)
- CT Conference of Independent Colleges (CCIC)
- CT Coalition to End Homelessness (CCEH)



'IDS LEAD' ROLE IN CT



Operating Group

P20 WIN is administered by the Office of Policy and Management (OPM) as the Operating Group,

which provides program management to support the continued operation and improvement of P20 WIN as a resource for the participating agencies and the State.

P20 WIN staff are within Data and Policy Analytics unit, co-located with: open data, GIS office plus other analytics projects



Data Integration Hub

The Data Integration Hub for P20 WIN is based at the Department of Labor Office of Research, where all matching for approved requests happens.





The P20 WIN Learning Agenda reflects the priority issues and burning questions of the State of Connecticut and P20 WIN Participating Agencies. The topics and questions in the Learning Agenda are used to prioritize and inform data requests to P20 WIN.

- College and Career Success: to support placement decisions at colleges and universities
- Student Readiness: to analyze transitions between early childhood and K-12 schools, to include social services, child welfare, housing, family life and adult education
- Financial Aid: the dynamics and outcomes for state financial aid grant recipients
- Workforce Training: measuring the net impact and return on investment for public workforce training programs
- Overcoming Barriers to Success: using data to help individuals who face barriers to success due to factors like homelessness or engagement with the child welfare system



TECHNICAL ASSISTANCE

- Similar topics
 - Staffing
 - Legal
 - Technology
 - Governance
 - Matching / linking methods
 - Funding
 - Legislative / policy basis
 - Racial equity

- Separate systems
 - Most states?
- SLDS and IDS together
 - KY and IN?

QUESTIONS?

Contact:

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Katie Breslin, Outreach and Engagement Coordinator katie.breslin@ct.gov



Regan Foust Executive Director, Children's Data Network





Integrating Data to Improve Education & Youth Wellbeing



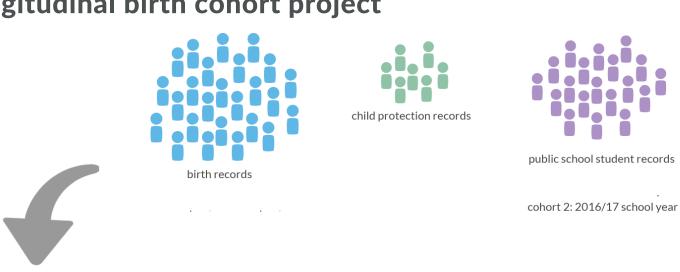
Regan Foust, PhD Children's Data Network at the University of Southern California June 22nd, 2022

Children's Data Network USC Suzanne Dworak-Peck

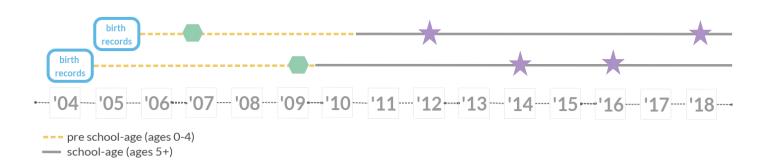


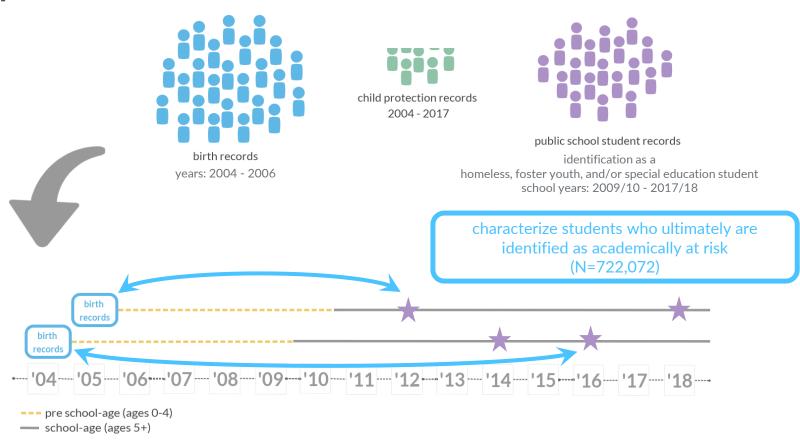


longitudinal birth cohort project



cullining silining balanced test (caaspp)







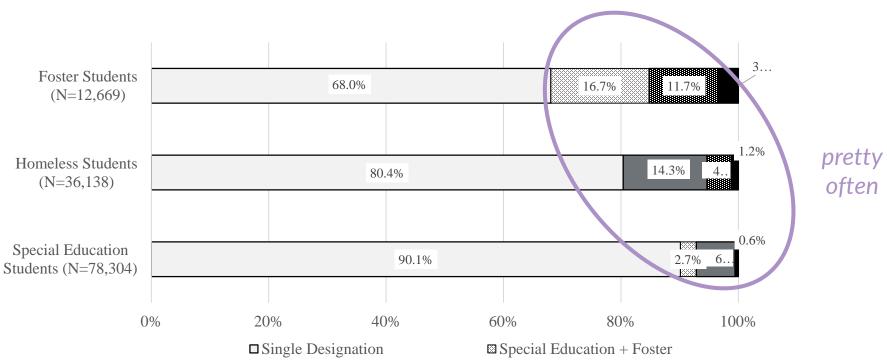
do students classified as academically at-risk during elementary school (i.e., identified as a *foster*, *homeless*, or *special education student*) differ in terms of *sociodemographic characteristics* at birth?

yes

- 1 in 6 students were classified as academically at-risk at least once during elementary school
- likelihood of foster and homeless classification was higher for certain groups
- likelihood of special education classification was more muted

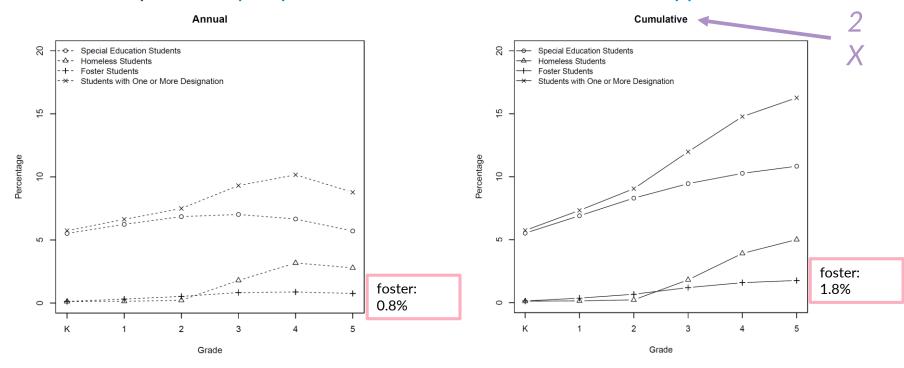


how often do students have multiple risk classifications?



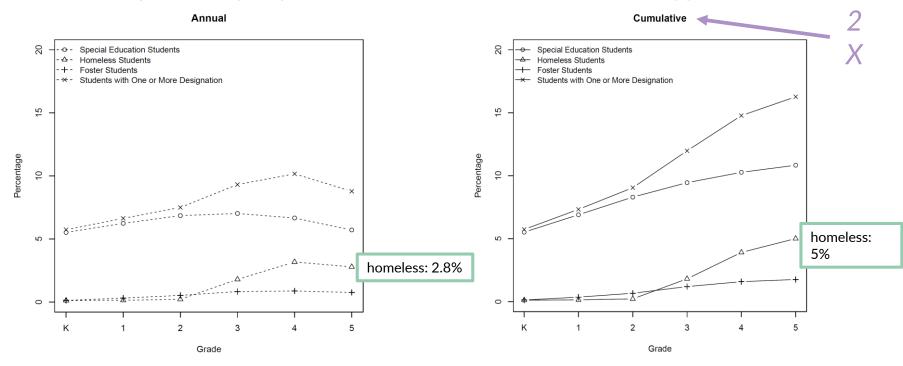


how does CDE's annual snapshot approach of calculating at risk students compare to a prospective, cumulative, student-centered approach?



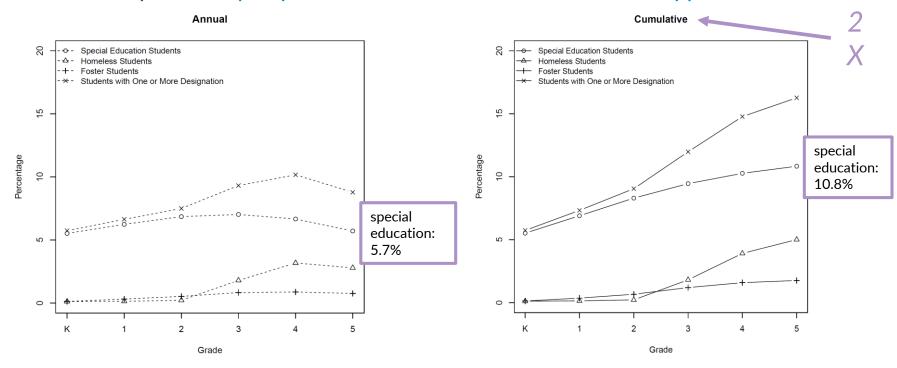


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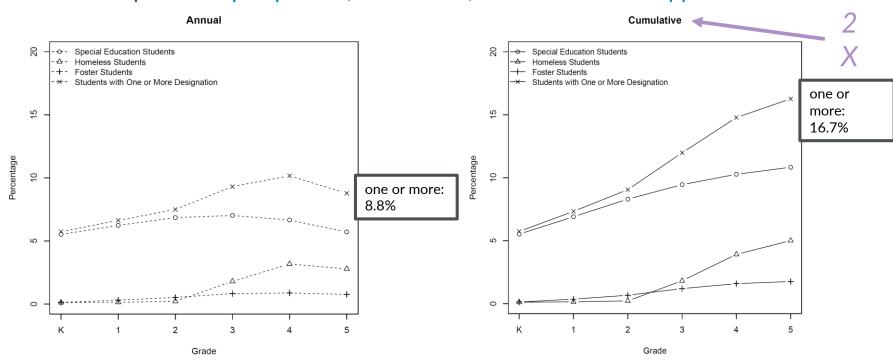


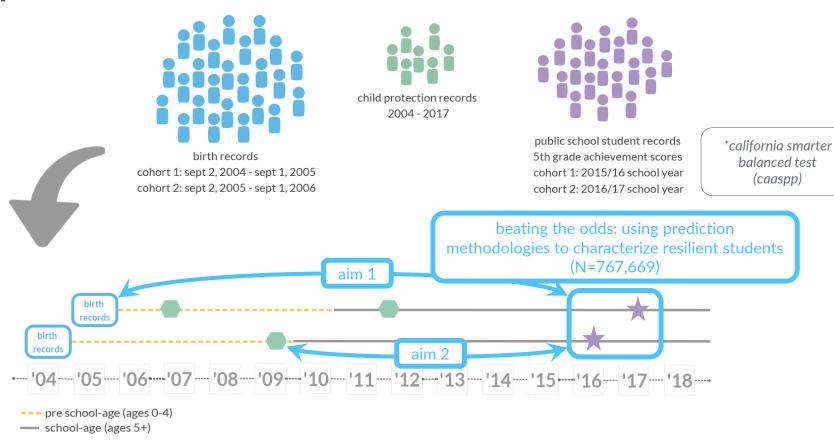
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developed *multi-level glms* using *sociodemographic information* available on the birth record and *achievement scores* aggregated to the school/district level to *predict 5th grade achievement*

compared predicted to observed achievement

underperforming = predicted to meet or exceed standard, but did not
performing as predicted - below standard = predicted to not meet the standard and did not
performing as predicted - meeting standard = predicted to meet the standard and did
overperforming = predicted to not meet the standard, but did

examined the unique effect of child protection involvement on 5th grade achievement



to what extent can *sociodemographic information* available on birth records *predict 5th grade achievement*?

pretty well

model predicted 22% of student-level variance and 49% of schoollevel variance

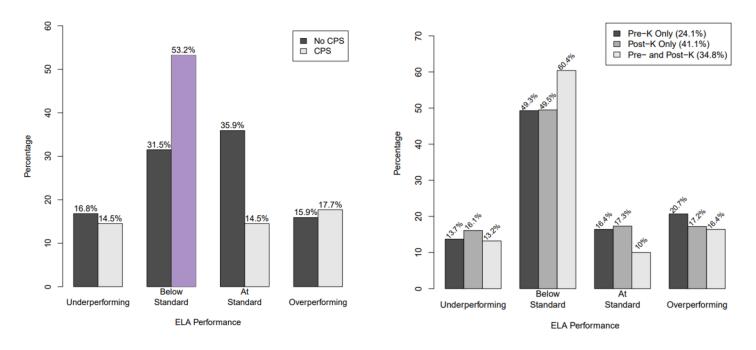
birth characteristics were correlated with performance beyond similarities due to school



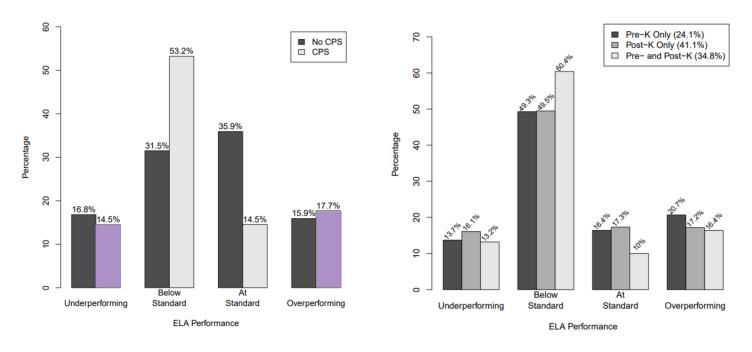
how does predicted achievement compare to observed achievement?

- observed: 47.5% met or exceeded the ela 5th grade-level standard
- predicted vs. observed:
 - most (67.4%) performed as predicted
 - the remaining one-third was evenly split between underand over-performing

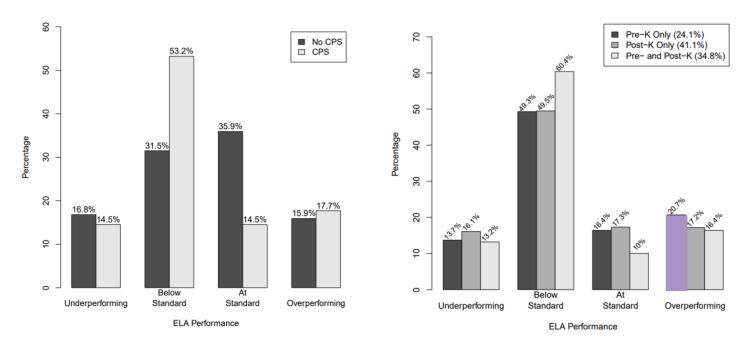




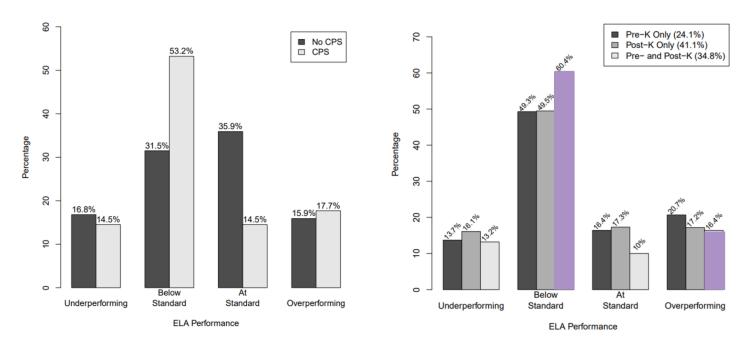












learnings



sociodemographic characteristics observable at birth, future childhood adversities, and academic performance are related

substantial overlap among children identified with vulnerabilities



cps involvement was related to lower academic achievement, but timing and chronicity matters

opportunity for prevention



taking a child-centered approach to calculating academic risk produces numbers that are double annual counts



highlights the value of cross-program data linkage in helping to inform or impute information about historically highly mobile/difficult to track populations, answer important epidemiological and policy-related questions, and develop more data-informed approaches to service planning and provision

questions?

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Maggie Reeves Senior Director, Georgia Policy Labs





Incorporating Community Voices

Georgia Policy Labs Andrew Young School of Policy Studies



About Us

- Evidence to realize the safety, capability, and economic security of every child, young adult, and family in Georgia
 - Actionable research
 - Engaged partnerships
 - Increased capacity
- Data infrastructure (admin. data) and partnerships for cross-system solutions
- Unapologetic commitment to the well-being of kids and families experiencing vulnerabilities





Partners







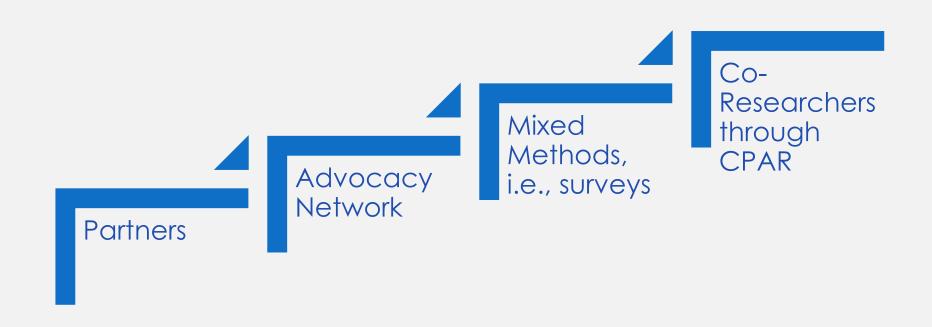








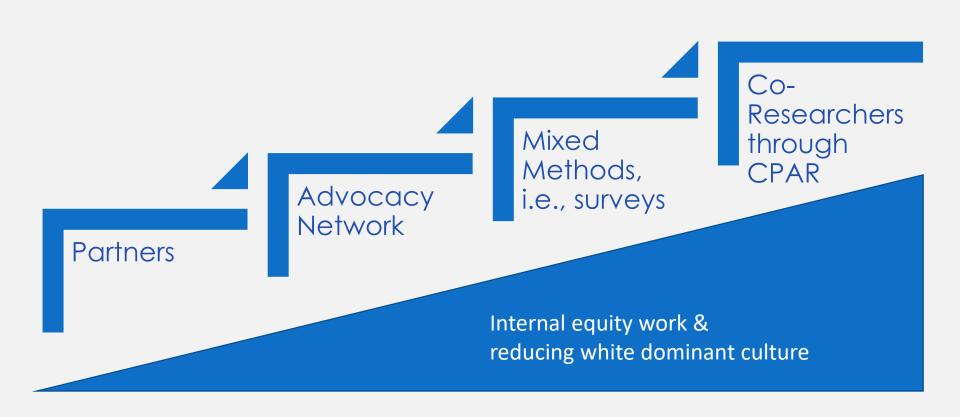








Sustainability







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Q&A



Thank You

