Using Air Monitoring Projects to Plant Social, Academic, and Economic Seeds in African American Youth

Gwen Smith Community Health Aligning Revitalization Resilience & Sustainability May 13, 20200 Air Sensor International Conference 2022

Agenda

- Social Determinants of Health
- Challenges Faced in Low- and Moderate-Income Earning Communities
- Community Based Participatory Research
- Citizen Science Air Monitoring Projects & Research

Social Determinants Of Health (SDOH)

The social determinants of health (SDH) are the nonmedical factors that influence health outcomes. They are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.

- Income and social protection
- Education
- Unemployment and job insecurity
- Working life conditions
- Food insecurity
- Housing, basic amenities and the environment
- Early childhood development
- Social inclusion and non-discrimination
- Structural conflict
- Access to affordable health services of decent quality.

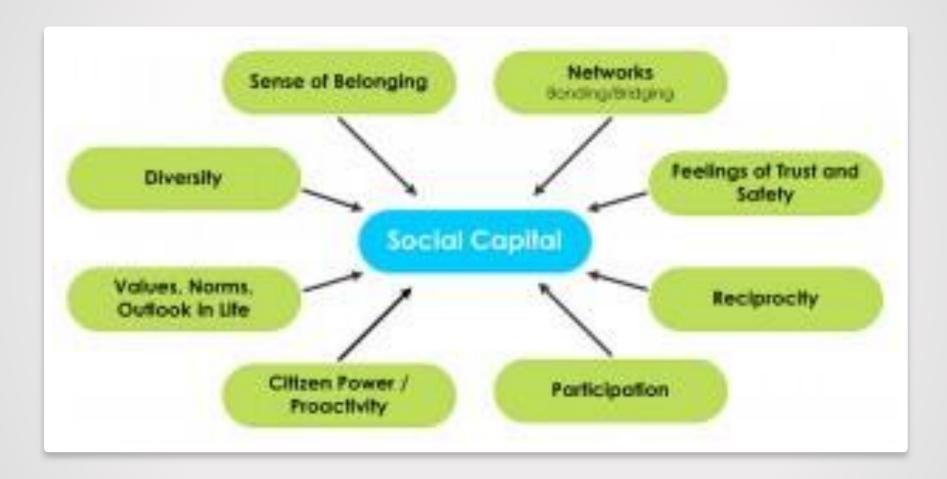
CHALLENGES

- Academic
- Social Capital
- Residential Mobility

Academic Success Impacts for Youth

- Utilities
- Babysitting
- Parents Work
- Transportation
- Food Security
- Trafficking
- 4.0 GPA
- 2.0 GPA

SOCIAL CAPITAL



SOURCE: Social Capital - Career Development - IResearchNet

Social Capital Impacts

- Parents Employment
- Social Circle

Residential Mobility

- Home Radius
- Park Space
- Housing
- Amenities
- Physical Environments

Community-Based Participatory Research (CBPR)

CBPR is an approach to health and environmental research meant to <u>increase the value</u> of studies for both researchers and the communities participating in a study.

- What is of *value* to the researchers?
- What is of *value* to the community?
- How can researchers & agencies be more intentional about making deposits when designing projects

CHARRS Citizen Science & Air Monitoring Project

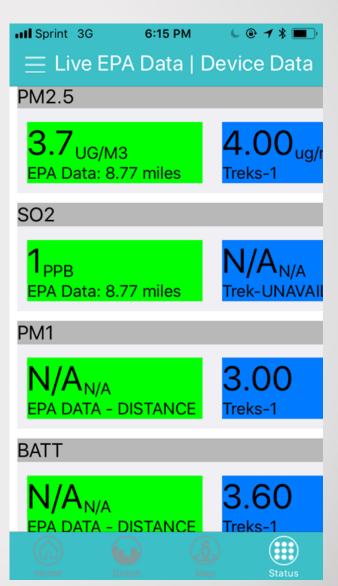
Enriching Deposits for a Fair Start

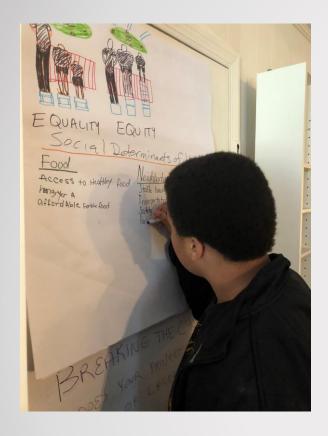
- Environmental Health Outdoor Classroom
 - Leveling the learning field with fun
- Access to Social Capital
- Exposure to science concepts and fields of study
- Cultural and Other Enriching Experience—Widening the mobility radius
- Shared Knowledge
- Understanding How Physical and Natural Spaces Impact Our Health
- Progress

Collier Heights Environmental Health Outdoor Classroom Beta Testing AQTrek Handheld Monitor



Pictured are a high school and middle school student, Rajah and Derek, varying abilities monitoring air quality near the neighborhood truck stop











When the Research Is Done & Researchers are Gone

What was the deposit made into the Community?



IMAGE SOURCE: Bank Deposits: The Most Important Number on the Balance Sheet - Banking Exchange

DEPOSIT OPPORTUNITIES

- Operational support of community partners
- Create Intergenerational opportunities for youth and elders to work together or interact
- Create opportunities for community members that provide new skill-sets-Economic
- Provide ethics training for community researchers- Academic/Economic
 - Surveys
 - o Testing
- Provide letters of Recommendation
- Utilize social equity to create opportunities

Gaining Access to Green Economy, Climate Change Industry, and the Sciences

WE HAVE THE ABILITY TO INCREASE ACCESS FOR AFRICAN AMERICAN YOUTH THROUGH OUR PROJECTS AND STILL ACHIEVE OUR GOALS.



Each of us collaborating and choosing to consciously think of ways to make deposits in the communities where we want to work and include those actions in our proposals.

Thank You

Special Thanks to Jessa Ellenberg

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