

HeartWorks in Pamlico County, NC: Progress, Practices & Performance



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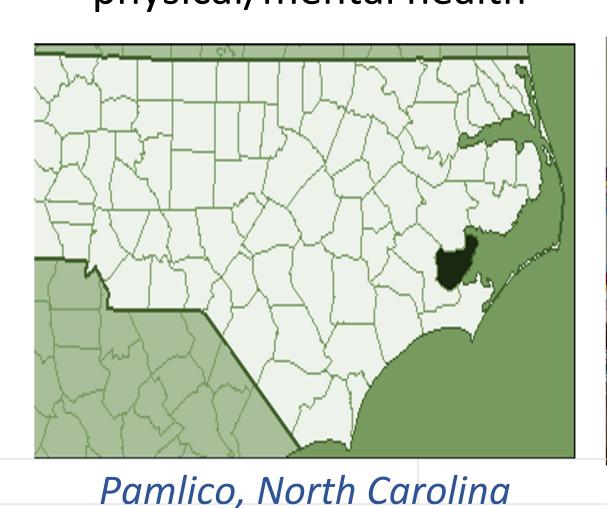
Objectives

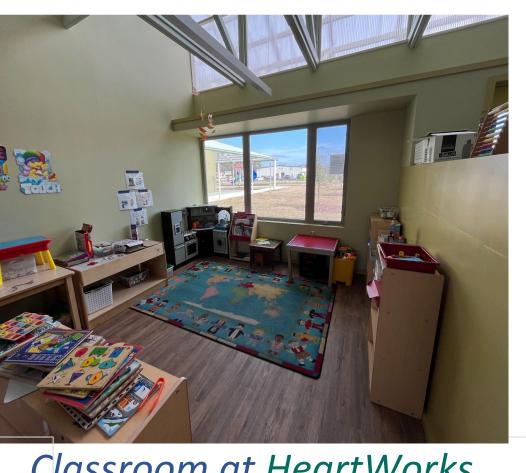
Expanding upon the 2021-2022 Capstone Team's work, this project aims to:

- Evaluate existing HeartWorks data to identify gaps in data necessary to evaluate the efficacy of HeartWorks' afterschool program on children's' mental health and academic performance
- Create a logic model describing HeartWorks' afterschool program
- Identity and pilot screening tools for children's mental health that can be adapted by HeartWorks afterschool and summer programs.
- Create a mini directory of grant opportunities for funding since the HeartWorks afterschool and summer program will not receive the 21st Century Learning Center grant this upcoming fiscal year

Background

- Pamlico County is small, rural NC county that is majority white. 15.3% live in poverty.
- Pamlico has high incidence of mental health issues including suicide, substance abuse, and others.
- Pamlico experiences challenges in mental health care access. Pamlico County has not met the NC Institute of Medicine's (NCIOM) target ratio of 1 primary care provider to every 1,500 patients.
- Pamlico county has lower percentage health insurance coverage in comparison to the rest of North Carolina.
- HW is a non-profit that offers an afterschool program and a summer program to children grades K-8. Their programs focus on addressing physical/mental health





Classroom at HeartWorks

SDQ Pilot Survey Findings E. Respondent Age Group (%) A. SDQ Scoring Guidelines **SDQ Scoring** Borderline **Abnormal** Normal Early Adolesence(12-18) Total difficulties 0-11 12-15 16-40 5-10 **Emotional** 0-3 4-10 Conduct 7-10 Hyperactivity 0-5 4-10 0-2 Prosocial C. Parent Completed Total Difficulties Score (%) Parent Completed SDQ scores for 4-17 year olds F. Respondent Gender (%) Female Non binary D. Children's' Mental Health Needs Assessment

HeartWorks' Program Model

Fig. 1: SDQ April Pilot. (n=90 children, n=45

parents) (A): SDQ scoring guidelines to define

and compare 'problem' categories. (B-C)Parent

surveys indicated risk in peer relationships. (D)

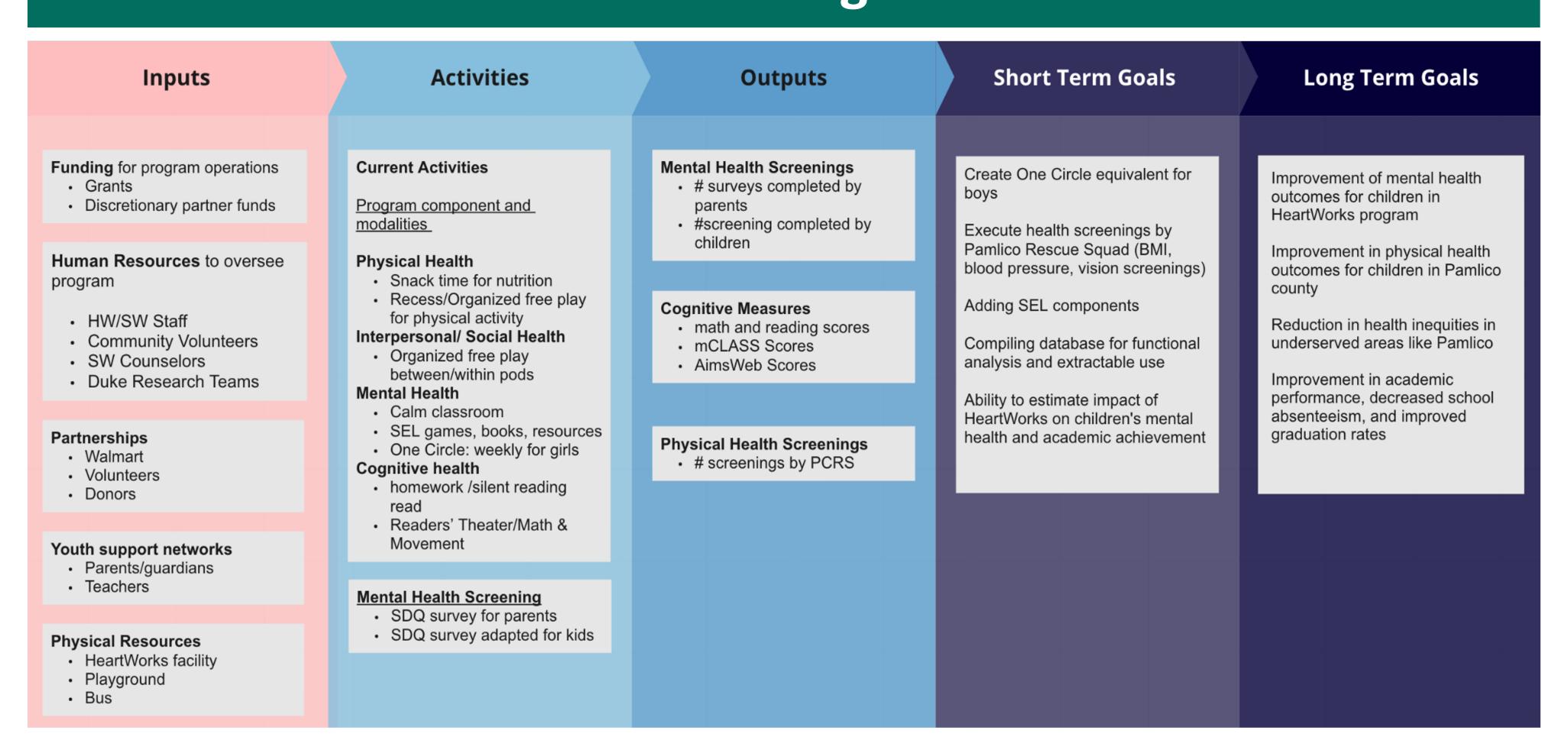
Binary mental health assessment shows over

50% of respondents are anxious (worried,

demographics shows evenness of gender.

Majority respondents are in mid adolescence.

nervous). (E-F) General respondent



Deliverables

- 1. In person visit of Pamlico County to understand built landscape and contextualize needs of the area
- 2. Compilation, review and documentation of HW program components used to draft M/E framework and database
- 3. Compiled set of grant opportunities for Heartworks so that the after-school program can continue being funded
- 4. Conducted literature reviews to compile mental health surveys based on validated screening tools
- 5. Created new database that assesses time investment into the after-school program, academic performance, mental health, and physical health information to let Heartworks evaluate the longitudinal effect of their program
- 6. Piloted mental health screening tool to help Heartworks screen for at-risk individuals that could be referred to the inhouse counseling program and survey initial needs
- 7. Analyze pilot survey and report with SDQ survey improvements

Recommendations

- A. Mental Health Screening Survey
 - a. perform follow up SDQ in May/August or start of 2023-2024 school year
 - b. Identify metrics and interventions for kids with high externalizing scores (hyperactivity, conduct etc) on SDQ
 - c. Administer SMFQ/SCAS-S to kids with high internalizing scores (e.g emotional)
 - d. Examine confidence subscales for kids with known diagnosis
- B. Compilation of Database
 - a. HW and future teams can assist with direct input of info into the database and data cleaning for analyses
- C. Implement physical health screenings
 - a. Utilize Pamlico County Rescue Squad's proximity
 - b. Consider an assembly line structure in which HW staff take weight, height and eye exams while PCRS perform other vital exams (i.e blood pressure)
- D. Considering limitations of SDQ survey ...
 - a. Operationalize binary, easier to use adaptation of survey
 - b. Disaggregate SDQ scores (i.e normal, abnormal borderline) into more meaningful metrics

Fig. 2: HW logic model: showing current project activities, future directions and overall program goals