# **Impact Summary**

Growing Canopy & Community in South Providence Providence, RI Providence Neighborhood Planting Program (PNPP)



## **Project Goals**

Between September 2021 and December 2022, PNPP, project partners, and community-members planted 190 trees in the Upper and Lower South Providence and Washington Park neighborhoods of Providence, Rhode Island. The main goal of this project was to directly address the disproportionate environmental health burdens that under-canopied and under-resourced areas face, with a focus on improving air quality, reducing urban heat island effect, empowering students and residents, and building more resilient communities.



### **Human Health**



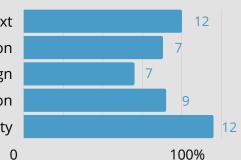


### **Social Equity**



47/50
Exceptional

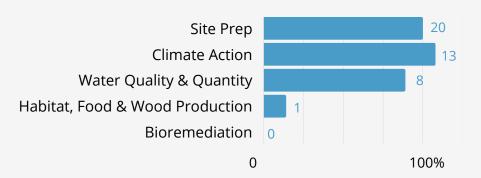
Inequity Context
Site Selection
Community Engagement in Design
Community Participation
Economic Equity



### **Environment**



**42/50**Exceptional



#### **Impact Summary**

### **Growing Canopy & Community in South Providence**





### Increase tree equity and build resilient communities

This project was a collaborative effort, including Providence Forestry Division, Groundwork Rhode Island, students and staff at participating schools, the Providence Housing Authority, members of the Providence Tree Plan Steering Committee, community members, and residents. Trees were planted at schools, at private homes and businesses, and on public housing properties. Project partners conducted extensive community engagement and outreach to design the project and provided volunteer and paid opportunities for youth and community-members to implement the tree planting. Students and community members were empowered to plug in, develop social capital and take ownership of the tree planting projects that will lead to increased health and resiliency.

#### **UN Sustainable Development Goals**



Filter air and provide shade for improved health



Increase water capture and infiltration



Ongoing community-based tree care



Address past environmental injustices



Improve access to green spaces and livability



Reduce heat and energy needs



Deliver local climate action, quantify benefits



Increase soil health and biodiversity



Inclusive, communitycentric approach



Multistakeholder partnerships

#### **Quantified Benefits**

Projected values (avoided costs) for ecosystem benefits per year in 25 years

#### **Carbon Sequestration**

154.4 metric tons of CO2 \$3,680 (at \$25/ton)

#### **Rain Interception**

1,416.8 m3/year \$2,994 per year

#### **Air Quality**

O3: 0.0474 t/yr NOx: 0.0200 t/yr PM10: 0.0230 t/yr \$1,117 per year

#### **Energy Savings**

Electricity - 18,121.5 kWh/yr Natural Gas - 664,026.9 kBtu/yr \$11,826 per year