

Impact Summary

Greening Thompson Ranch School

El Mirage, AZ

Arizona Sustainability Alliance



Project Goals

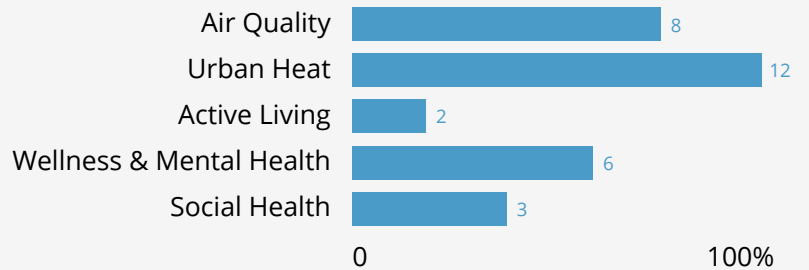
Arizona Sustainability Alliance partnered with Thompson Ranch Elementary School, Dysart School District, and the City of El Mirage to plant 53 native, drought resistant trees at a grammar school in El Mirage, AZ. The area was identified as a neighborhood in high need of trees based on American Forests' Tree Equity Score Analyzer. This Title I school provides education and resources for 850 children from low-income families. Trees will cool the air and provide shade at strategic locations where kids play and spend time outside.



Human Health



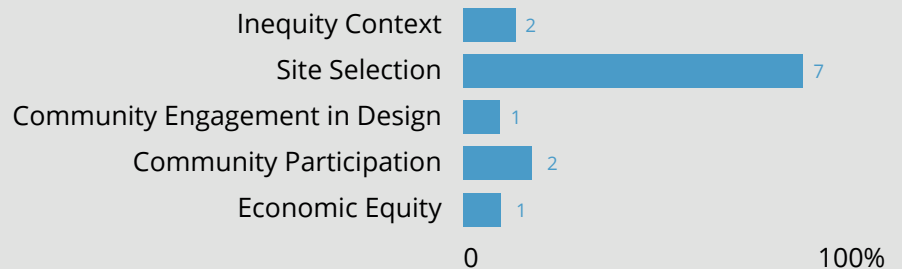
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Social Equity



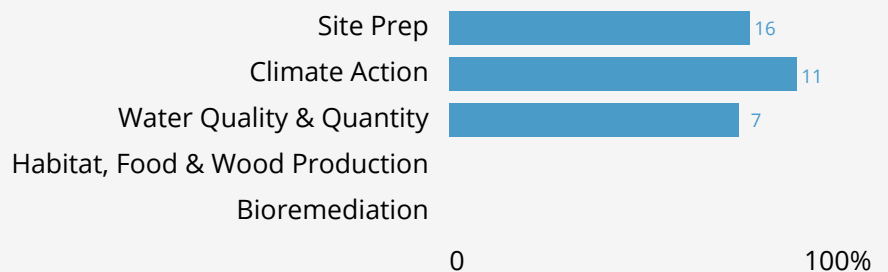
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Environment



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Planting trees for the health and wellness of children

Extreme urban heat affects the health, well-being, and safety of residents, with the worst impacts felt by vulnerable populations such as kids. Trees will provide shade and cool spaces for students in the most important areas at school, and create areas of respite to play or spend quiet time in nature.

The school is also located in a highly industrialized area and in proximity to several high-traffic roads. Trees will help to clean the air and mitigate negative effects of pollution.

UN Sustainable Development Goals

<p>3 GOOD HEALTH AND WELL-BEING</p>	<p>6 CLEAN WATER AND SANITATION</p>	<p>8 DECENT WORK AND ECONOMIC GROWTH</p>	<p>10 REDUCED INEQUALITIES</p>	<p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>
<p>Screen pollutants from roads, provide shade</p>	<p>Efficient water use</p>	<p>Support small and local businesses</p>	<p>Improve tree equity within neighborhoods</p>	<p>Improve quality of life for kids</p>
<p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>	<p>13 CLIMATE ACTION</p>	<p>15 LIFE ON LAND</p>	<p>17 PARTNERSHIPS FOR THE GOALS</p>	
<p>Save energy, reduced cooling needs and costs</p>	<p>Local climate action</p>	<p>Increase biodiversity, climate resilience</p>	<p>Collaborative effort with school district and city</p>	

Quantified Benefits

Projected values for ecosystem benefits per year in 25 years

Carbon Sequestration

35.6 metric tons of CO2
\$889 (at \$25/ton)

Rain Interception

178 m3/year
\$226 per year

Air Quality

0.008 t/year
\$97 per year

Energy Savings

8,575 kWh/year
5,200 kBtu/year
\$1,084 per year