



Microsoft

PROJECT REPORT

AUSTRALIA 2023
COOL STREETS
HEBERSHAM



ONETREEPLANTED



THANK YOU FOR YOUR SUPPORT

Dear friend,

Thanks to your support of the Australia 2023 – Cool Streets Hebersham project, a total of 406 trees were planted to restore 5.75 acres of urban forest in Hebersham, Australia.

Planting trees in urban areas that have been degraded or dominated by the built environment helps to assure the re-establishment of healthy forests in the places we live, work, and play. Through reforestation, our urban canopies are restored, ecosystems are made whole, and our communities can thrive! None of this would be possible without you. On behalf of everyone at One Tree Planted, *thank you!*

What follows is a report outlining the project you supported in Hebersham, Australia. I hope you enjoy reading about the incredible impacts you have supported.



Harry P. Lynch

**PRESIDENT & CEO
ONE TREE PLANTED**



OVERVIEW

Hebersham, a suburb of Sydney, Australia, in the City of Blacktown, is home to a relatively large population of indigenous Australians, as well as low-to-middle income residents. The community also experiences some of the highest increases in temperature in the region, due to the urban heat island effect. For these reasons, our partner planted more than 400 shade trees in the community, to help mitigate these effects and provide heat relief.

 **TREES PLANTED**
406

 **TREE SPECIES PLANTED**
11

 **PEOPLE IMPACTED**
1,000

 **ACRES PLANTED**
5.75

 **PEOPLE EDUCATED**
32

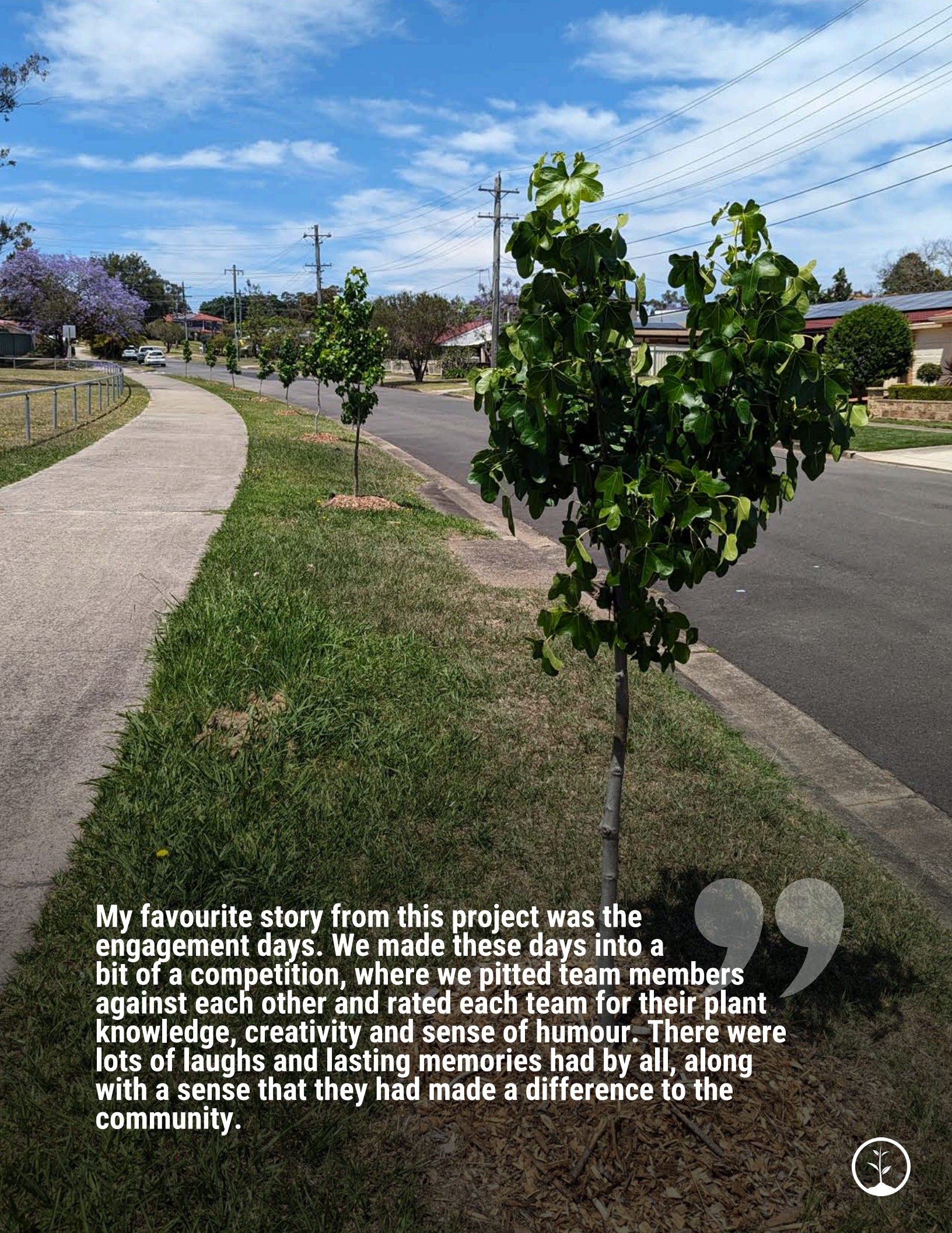
 **UNDER-RESOURCED NEIGHBORHOODS SUPPORTED**
1

 **VOLUNTEERS INVOLVED**
80

 **TREE PLANTING EVENTS**
2

 **JOBS SUPPORTED**
23



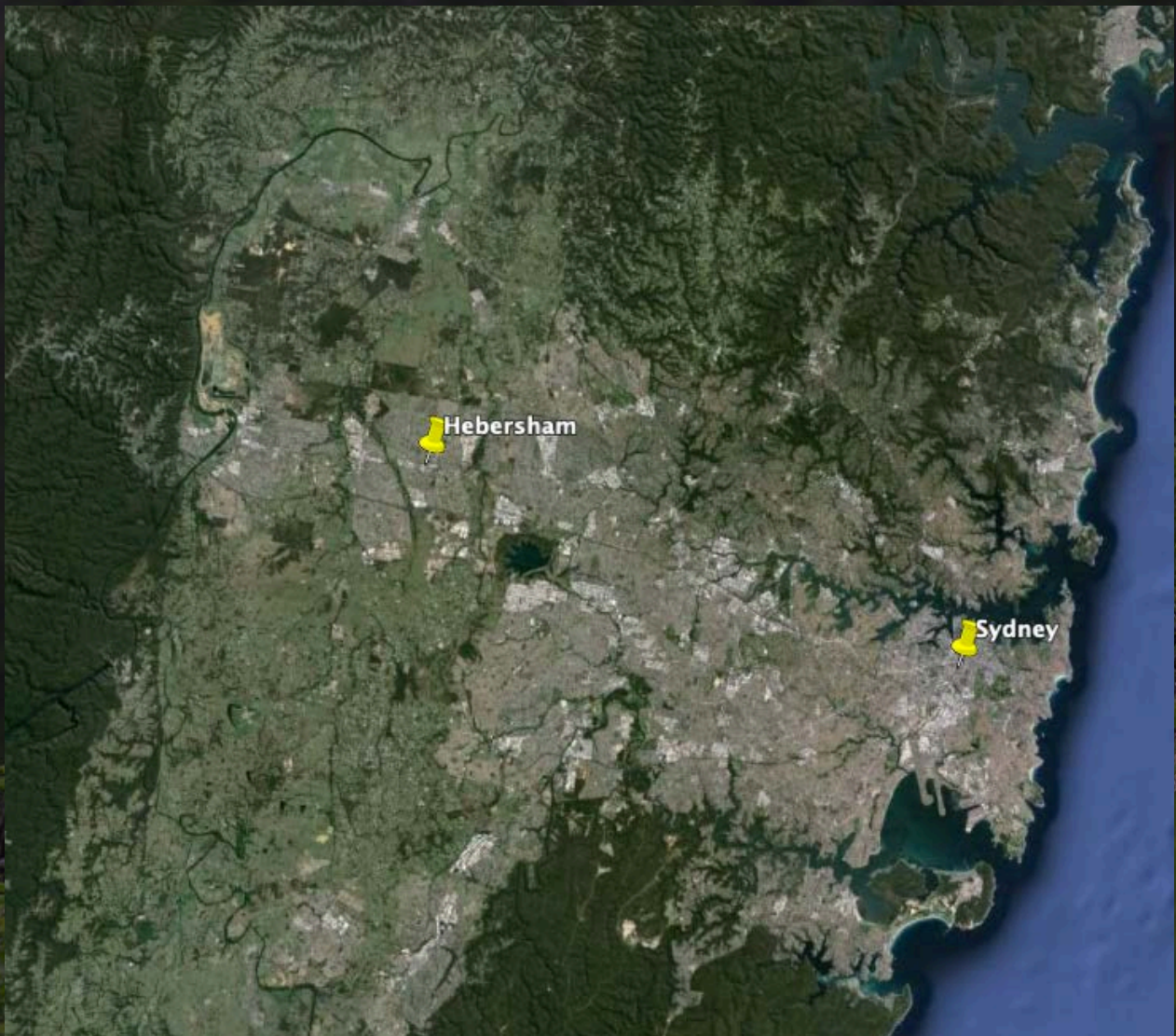


My favourite story from this project was the engagement days. We made these days into a bit of a competition, where we pitted team members against each other and rated each team for their plant knowledge, creativity and sense of humour. There were lots of laughs and lasting memories had by all, along with a sense that they had made a difference to the community.



YOUR IMPACT ON THE MAP

Hebersham, within the City of Blacktown, is an outer of Sydney, Australia. Historically, it was in an open-canopied plains woodland. Due to urban development, very little of this historic landscape remains. At the same time, due to climate change, Hebersham is experiencing increased temperatures and fluctuations in precipitation.



TREE SPECIES PLANTED

Species diversity is key to the establishment of a healthy, resilient urban forest. This principle is enforced by many urban forestry professionals utilizing the 10-20-30 rule, which suggests that an urban forest should consist of no more than 10% of any one species, 20% of any particular genus, or 30% of any single family. This helps to reduce the likelihood that prevalent diseases/pests that are keen on particular tree species will decimate large portions of the urban forest.

For the Australia 2023 – Cool Streets Hebersham project, our planting partner installed the following tree species:

- *Pyrus calleryana* 'Bradford' - Bradford pear
- *Harpullia pendula* - Tulipwood
- *Liriodendron tulipifera* - Tulip Tree
- *Cupaniopsis anacardioides* - Tuckeroo
- *Brachychiton acerifolius* - Illawarra flame tree
- *Callistemon viminalis* 'Hannah ray' - Bottle Brush
- *Fraxinus pennsylvanica* 'Urbanite' - Evergreen ash
- *Lophostemon confertus* - Brush Box
- *Waterhousia floribunda* - Weeping Lilly Pilly
- *Liquidamber styraciflua* 'Rotundiloba' - Liquidambar
- *Eucalyptus* spp.

Our partner chose a variety of species to plant. Although not all of the species chosen were native, all of our partner's selections are well-adapted to tolerate the warming climate of New South Wales and provide shady relief to the residents of Hebersham.



KEY PERFORMANCE INDICATORS

AND CO-BENEFIT MONITORING

WHAT IS I-TREE?



i-Tree®

i-Tree is a state-of-the-art, peer-reviewed software suite from the USDA Forest Service that quantifies the long-term environmental benefits of your trees in terms of carbon sequestered, storm-water captured, and air pollutants removed using data about tree species, location and environmental conditions.

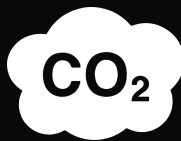
Ecosystem benefits estimated using i-Tree can help you communicate the impact of your project! These estimates are generated based on locally-derived reporting data at a 40-year project lifespan and 20% mortality to answer the question "What are the benefits of these trees 40 years from now, estimating 20% of the trees might fail to establish?"

ECOSYSTEM BENEFITS OF YOUR PROJECT:



406

URBAN TREES
PLANTED



291,740

CO2 SEQUESTERED
(LBS)



1,000+ PEOPLE IMPACTED

The completion of this project in Hebersham, Australia, will have lasting impacts on over 1,000 people. With a focus on developing a more equitable urban tree resource, this project will provide long-term social, environmental, and economic benefits in underserved communities that have identified their need for trees.

The following pages outline the key Project Impacts that will benefit the community as the trees you planted grow!



URBAN HEAT ISLAND MITIGATION

The science is clear; climate change is making our cities hotter, with significant health impacts experienced most extremely by vulnerable communities across the globe. Cities worldwide are experiencing days of extreme heat exposure at triple the rate they did in 1980. Daytime temperatures in urban areas are found to be 1–7°F higher than temperatures in outlying areas – this is a phenomenon known as the **Urban Heat Island effect**.

Trees are part of the solution! Urban canopies help to combat the heat; shade from a healthy, mature tree has been found to lower surface air temperatures by up to 20–45°F. For some, this vital shade resource is the make-or-break in their experience of heat exhaustion, hospitalization, or even death.

Your project in Hebersham, Australia, helps to combat the urban heat island by planting trees where shade is needed most. Hebersham, a suburb of Sydney, has been identified as having some of the lowest tree canopy in the state of New South Wales, making it particularly vulnerable to the effects of urban heat.



COMMUNITY HEALTH & WELLNESS

Perhaps even more than the trees, Urban Forestry is about one thing: **Community**.

By planting trees in our urban spaces, we open the door to new opportunities for enhancing community health and wellness. In many cases, under-resourced (lower-income and more racially diverse) neighborhoods in cities have notably low percentages of tree canopy cover, thus experiencing the effects of climate change more intensely. Throughout our urban forestry projects, we use environmental justice as a key principle in the identification of project locations to ensure we are planting trees in communities that need them the most.

Your project in Hebersham, Australia, will help enhance community health and wellness by planting in an area vulnerable to urban heat and where a relatively high proportion of indigenous and low-to-middle income Australians call home.

Studies have proven that people exercise more and feel better around trees. Access to green spaces alleviates stress, stabilizes blood pressure, eases anxiety and depression, and encourages an active lifestyle. Investment in urban forestry is an investment in community health!



DOCUMENTING YOUR IMPACT

To monitor our Urban Forestry projects, we rely on partner reporting and GPS verified photos, site visits, and more. Below is a selection of key images from the project you supported:



U.N. SUSTAINABLE DEVELOPMENT GOALS

WHAT ARE SDGs?

Sustainable development urges us to seek out solutions that not only boost the economic outcomes of developing nations, but also work to limit (or eliminate) our impact on the planet. Trees are one such solution.

The 17 Sustainable Development Goals (SDGs) established by the United Nations serve as a keys to unlocking a healthier, more sustainable global future. SDGs are an urgent call to action and partnership, worldwide. These goals represent critical benchmarks to addressing poverty, inequity, climate change, and the establishment of peace and justice.

From creating jobs and reducing social inequities, to cleaning our water resources and absorbing carbon, planting trees in urban environments can help address many of the Sustainable Development Goals.

YOUR PROJECT CONTRIBUTED TO THE FOLLOWING SUSTAINABLE DEVELOPMENT GOALS:





“Thank you Microsoft for wanting to help make this project come to life! Engaging folks through volunteering is such a key aspect of education around tree planting and urban forestry. It’s great to see that so many people were able to gain knowledge and make such a profound impact through this project.”



Caitlin Griffin
Director of Fundraising
One Tree Planted