

Microsoft

PROJECT REPORT

INDIA 2023 - HYDERABAD FRUIT TREES



ONETREEPLANTED



THANK YOU FOR YOUR SUPPORT

Dear friend,

Thanks to your support of the India 2023 - Hyderabad Fruit Tree project, a total of 29,050 trees were planted to restore 75 acres of urban forest in Hyderabad, India.

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 Hyderabad, India. I hope you enjoy reading about the incredible impacts you have supported.



Harry P. Lynch

PRESIDENT & CEO
ONE TREE PLANTED



ONETREEPLANTED

OVERVIEW

Over the last few decades, Hyderabad, India, has become India's top technology hub. The transformation of the city's industry, however, has been coupled with explosive population growth — increasing from 5 million people in 1995 to nearly 11 million today. As a result, urban development has taken a toll on the city's environmental quality. To help mitigate those consequences, this project planted 29,050 trees on the campuses of law enforcement schools that train low-income students, while also housing their families.



**TREES
PLANTED**
29,050



**TREE SPECIES
PLANTED**
24



**PEOPLE
IMPACTED**
13,500



**ACRES
PLANTED**
75



**TREE PLANTING
EVENTS**
6




JOBS
425 SUPPORTED
250 CREATED



**VOLUNTEERS
INVOLVED**
495





“25,000 trees will not only improve air quality and provide much-needed shade, but...the fruit trees planted will offer sustainable sources of nutrition for the local community, promoting food security and economic resilience.”

- Sustainable Green Initiative



YOUR IMPACT ON THE MAP

With more than 11 million people, Hyderabad is one of India's largest cities and part of the Central Deccan Plateau. Historically, before urbanization, the vegetation in this area was dry, open canopied woodlands. But, as with many cities that experience rapid urbanization, land clearing and unchecked pollution have since contaminated the region's land and water habitats.



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 India 2023 - Hyderabad Fruit Tree project, here is a selection of tree species installed by our planting partner:

- *Tamarindus indica*
- *Mangifera Indica*
- *Artocarpus heterophyllus*
- *Millettia pinnata*
- *Psidium guajava*
- *Manilkara zapota*
- *Dalbergia sissoo*
- *Citrus x limon*
- *Syzygium cumini*
- *Neolamarckia cadamba*

For this project, our partner planted a wide variety of fruit and shade trees, with a focus on species native to the area. Planting a wide diversity of trees helps increase their overall expected survivability rate because, should one species of tree fail due to pests or extreme weather, many other species could prove to be resilient to those shocks. Additionally, birds, bees, and other pollinators will be attracted to the many different types of fruits and flowers.



KEY PERFORMANCE INDICATORS

AND CO-BENEFIT MONITORING

WHAT IS 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.

i-Tree®

Ecosystem benefits estimated using i-Tree can help you communicate the impact of the project you supported. 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 FOR YOUR PROJECT:



29,050
URBAN TREES
PLANTED



34,166,400
CO2 SEQUESTERED
(LBS)



2,214,399.8
STORM WATER
CAPTURED
(GAL)



13,500 PEOPLE IMPACTED

The completion of this project in Hyderabad, India, will have lasting impacts on over 13,500 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!



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 Hyderabad, India, will help enhance community health and wellness by providing shade from the tropical sun. Moreover, many of the students, who live on campus with their families, come from low-income backgrounds, so these trees will provide a sustainable source of a variety of fruits for them.

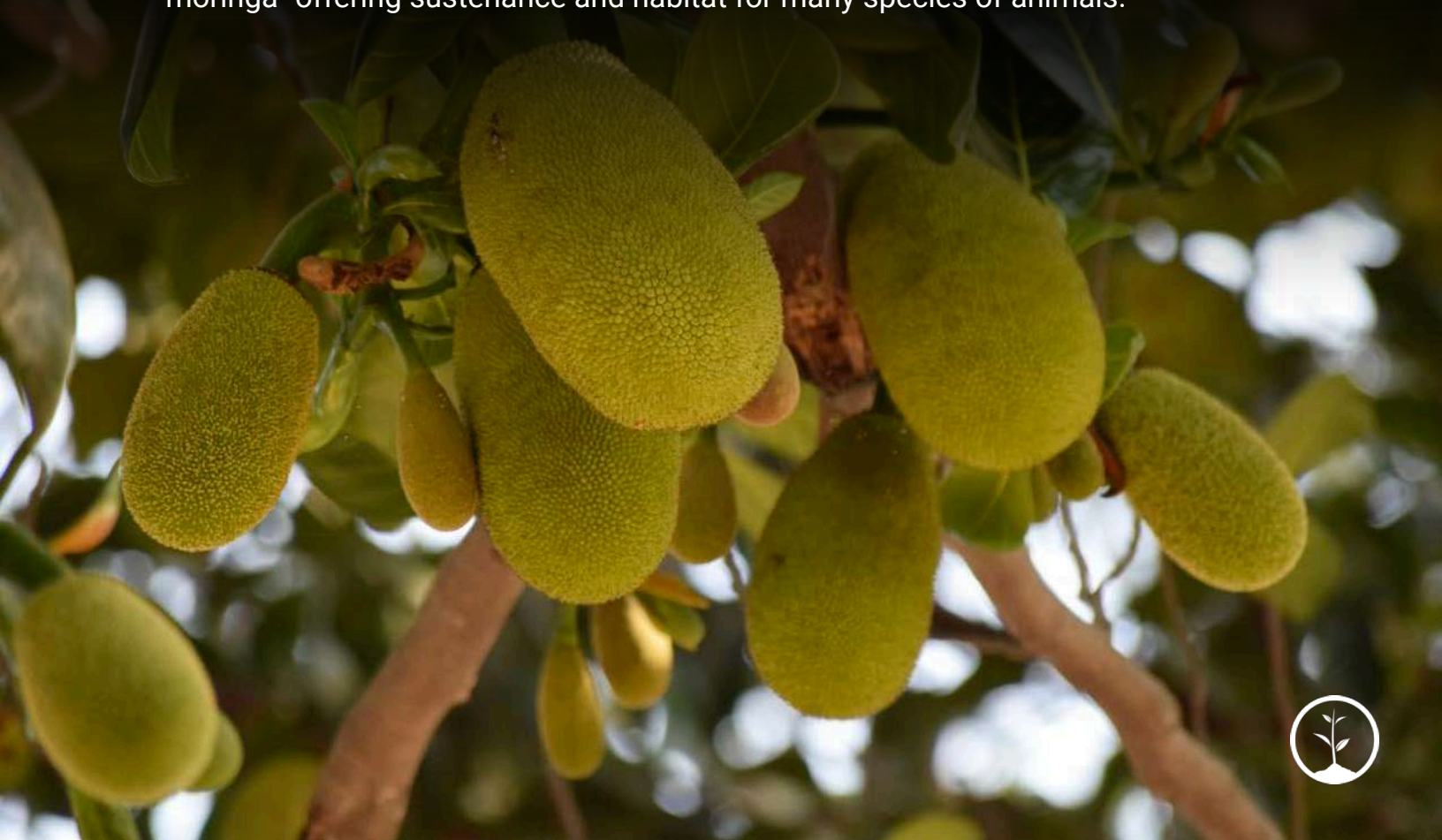
Studies have proven that people exercise more and feel better around trees. Access to green spaces alleviates stress, stabilizes blood pressure, eases anxiety and depression, and encourages an active lifestyle. Investment in urban forestry is an investment in community health!



BIODIVERSITY & HABITAT RESTORATION

Urban environments across the globe host thousands of species of flora and fauna. More than 20% of the world's avian biodiversity resides in cities and their trees! Tree canopies and green spaces within these environments help provide habitat and are a critical element of thriving, biodiverse urban ecosystems. Our urban forestry projects support these natural systems by creating green corridors for wildlife, cultivating habitat for local species, and installing diverse tree species to help establish a more resilient urban environment.

In many of the campuses where our partner planted trees, the land had previously been completely cleared of vegetation and, in some cases, had become a dumping ground for waste. After preparing the land, our partner selected and then planted species suitable for each unique site. Where there was once little to no vegetation, these newly planted areas are now filled with trees like orange, jackfruit, and moringa—offering sustenance and habitat for many species of animals.



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 key 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.

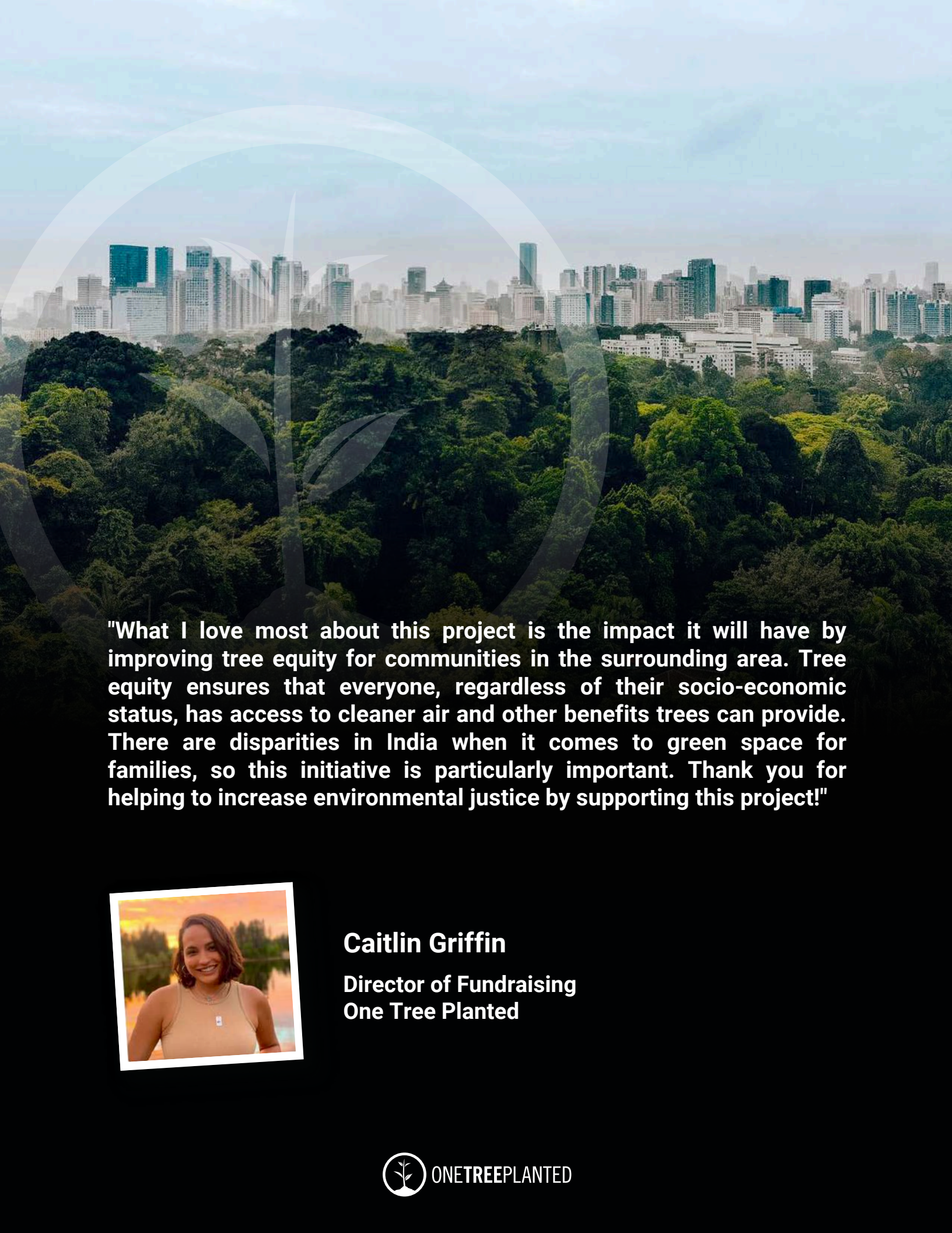
YOUR PROJECT CONTRIBUTED TO THE FOLLOWING SUSTAINABLE DEVELOPMENT GOALS:

3 GOOD HEALTH AND WELL-BEING



15 LIFE ON LAND





"What I love most about this project is the impact it will have by improving tree equity for communities in the surrounding area. Tree equity ensures that everyone, regardless of their socio-economic status, has access to cleaner air and other benefits trees can provide. There are disparities in India when it comes to green space for families, so this initiative is particularly important. Thank you for helping to increase environmental justice by supporting this project!"



Caitlin Griffin

**Director of Fundraising
One Tree Planted**