

A man and a young child are seen from behind, sitting on a large, flat rock in a park. The man is wearing a dark blue quilted vest over a light-colored long-sleeved shirt. The child is wearing a grey knit sweater and dark pants. They are both looking out over a dense forest of green trees. In the background, a city skyline with several tall skyscrapers is visible under a clear blue sky with some light clouds. The scene is brightly lit, suggesting it's daytime.

greehill

**WE GIVE
YOUR
TREES
A VOICE**

The climate & environment is changing faster than our trees can keep up with



Urban trees are becoming increasingly stressed

greehill



Smart Tree Inventory

Make the right decision at
the right tree at the right time.

greehill



Smart Tree Inventory

1. Improve **Safety** of Citizens & Infrastructure
2. Reduce Maintenance **Costs**
3. Increase **Health & Benefits** of your trees

Smart Tree Inventory

The 5-step process to informed decision making

Step 0 – What you see ...

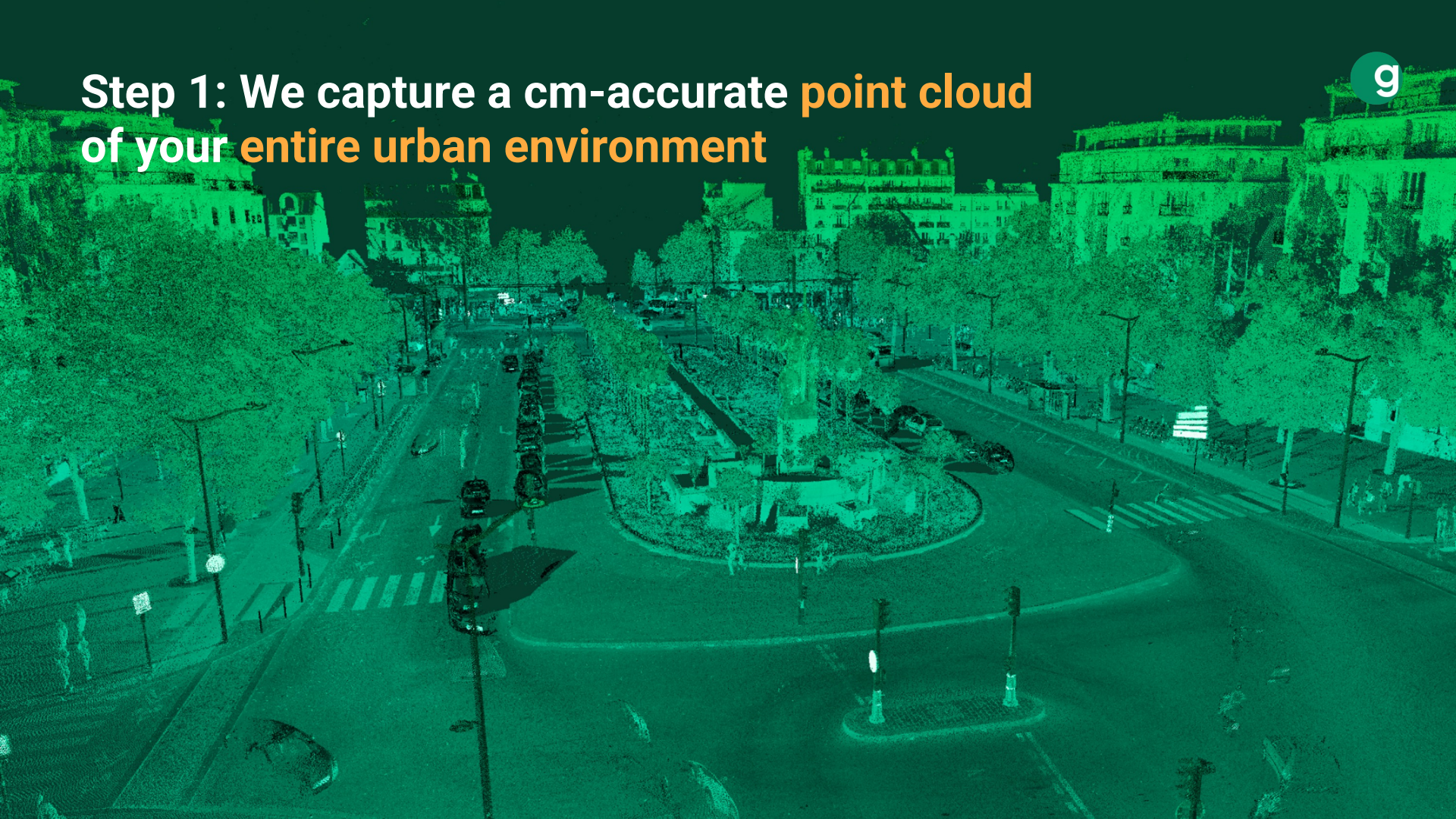


... our tools / hardware:
MLS and **TLS**



Step 1: We capture a cm-accurate **point cloud**
of your **entire urban environment**

9

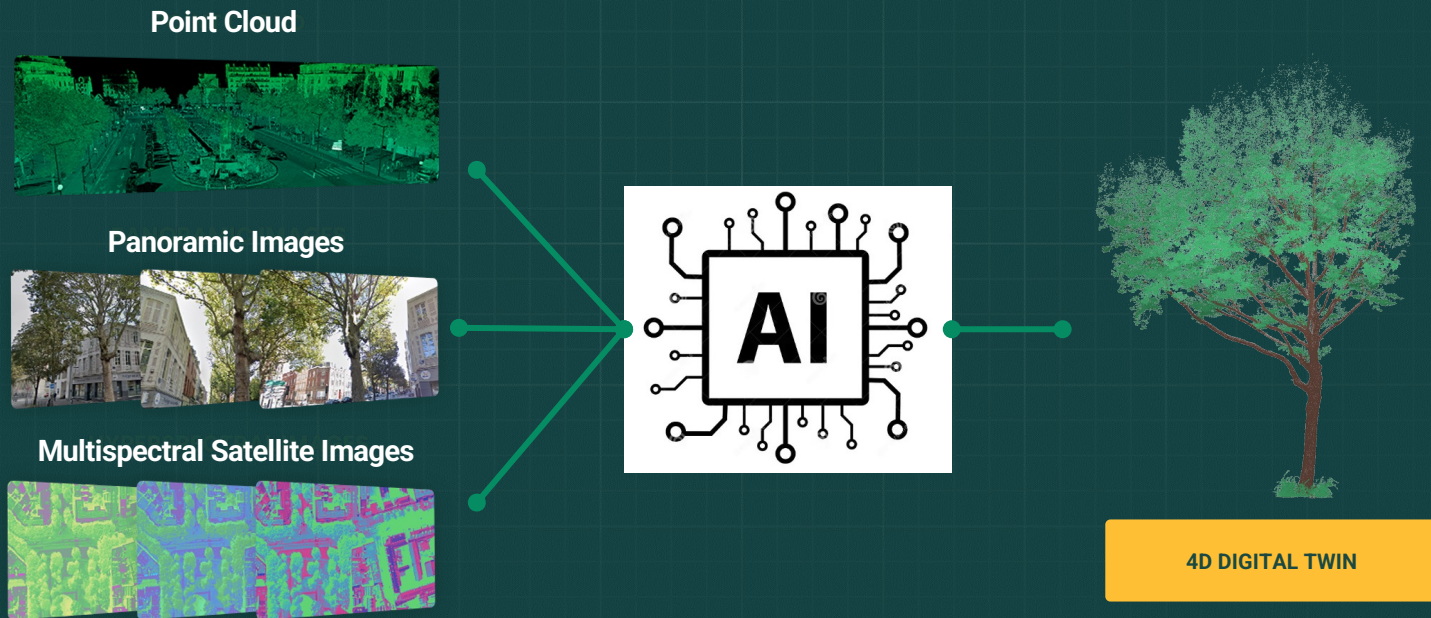


Step 2: Using the latest **AI technologies**, we automatically identify **each urban tree** ...

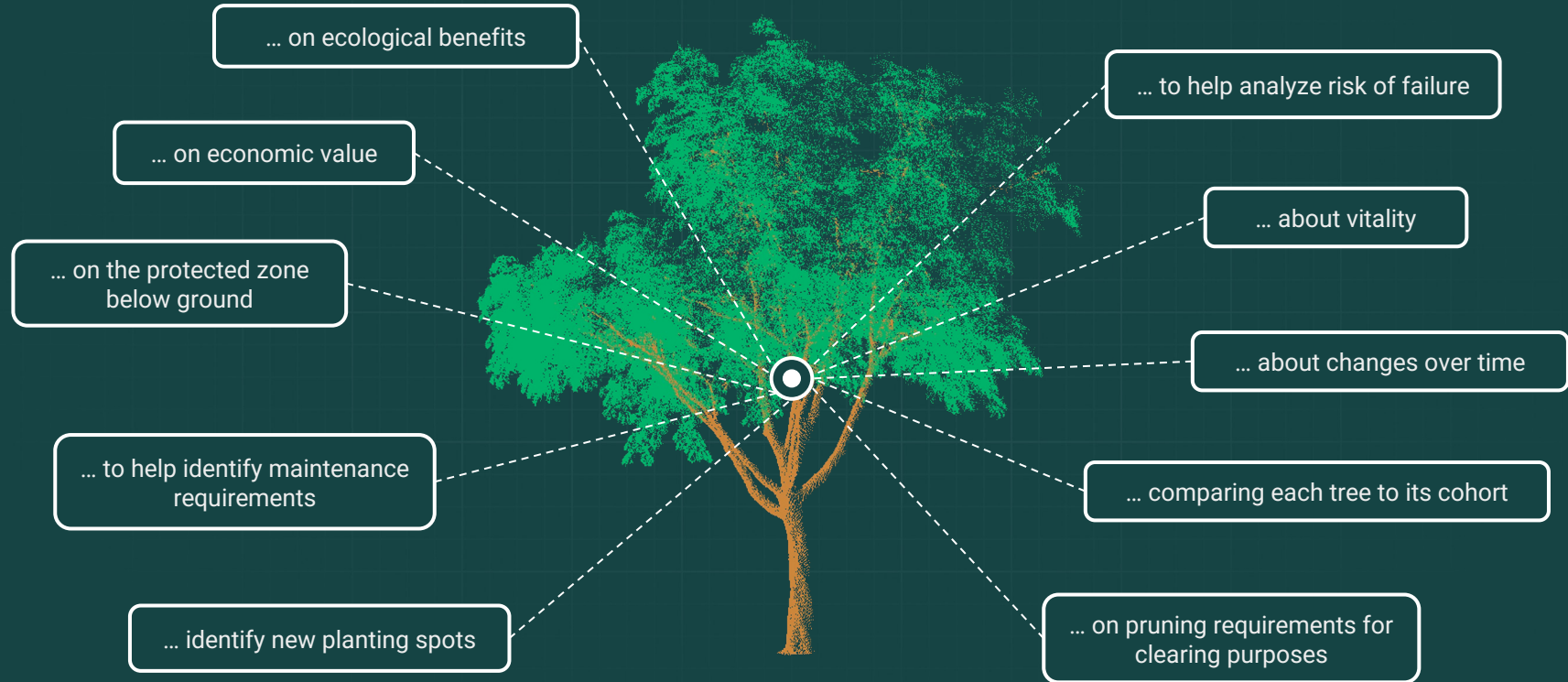


Step 2: ... and create a **4D Digital Tree Twin** of each tree

9



Step 3: We analyse each tree and identify Outliers

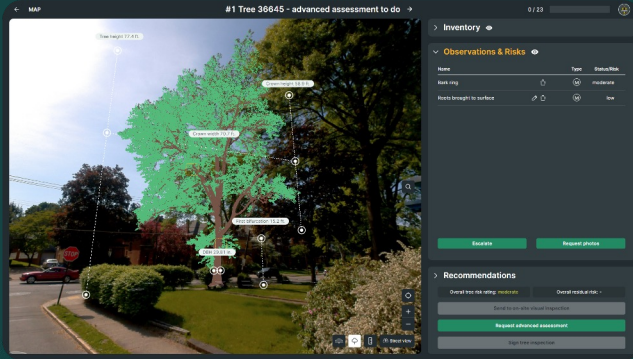


greehill digital tree twin

Step 4: Arborists inspect all Outliers



remotely



(approx. 20% of all trees)

&

on-site



(approx. 5% of all trees)

Step 5:

Your urban forest at your fingertips

with **greehill insights**

Species, Metrics & more



greethill SmartCity

platform.greethill.services/organizations/803518e8-2f66-4e4c-968f-740b914747c/trees/dd13aa47-197c-4600-b93c-da9392bccf0a/details?pri=twinView&sec=images

MAP

Tree 4713

Crown height 53.1 ft.

Tree height 59.0 ft.

Crown width 50.0 ft.

First bifurcation 6.9 ft.

DBH 27.69 in.

24.4.2023

Monitor over time

Twin view

Pictures

GENUS

Quercus

SPECIES

palustris

STREET NAME AND NUMBER

No data

mapbox

2D map

Metrics

Crown height

53.10 ft

Height

59.00 ft

Crown width

49.98 ft

First bifurcation

6.88 ft

DBH

27.69 in

Leaning angle

7.72 °

Number of stems

No data

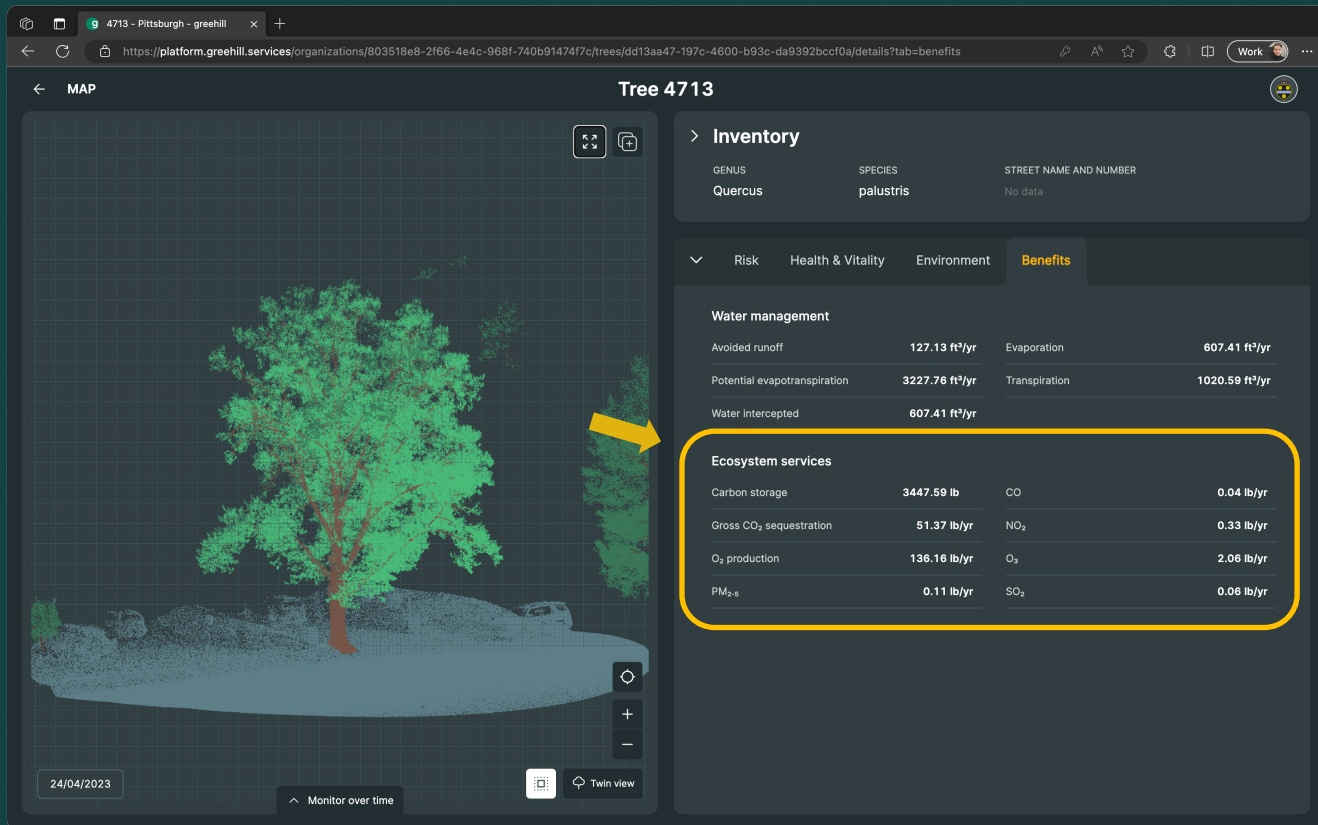
Risk

Health & Vitality

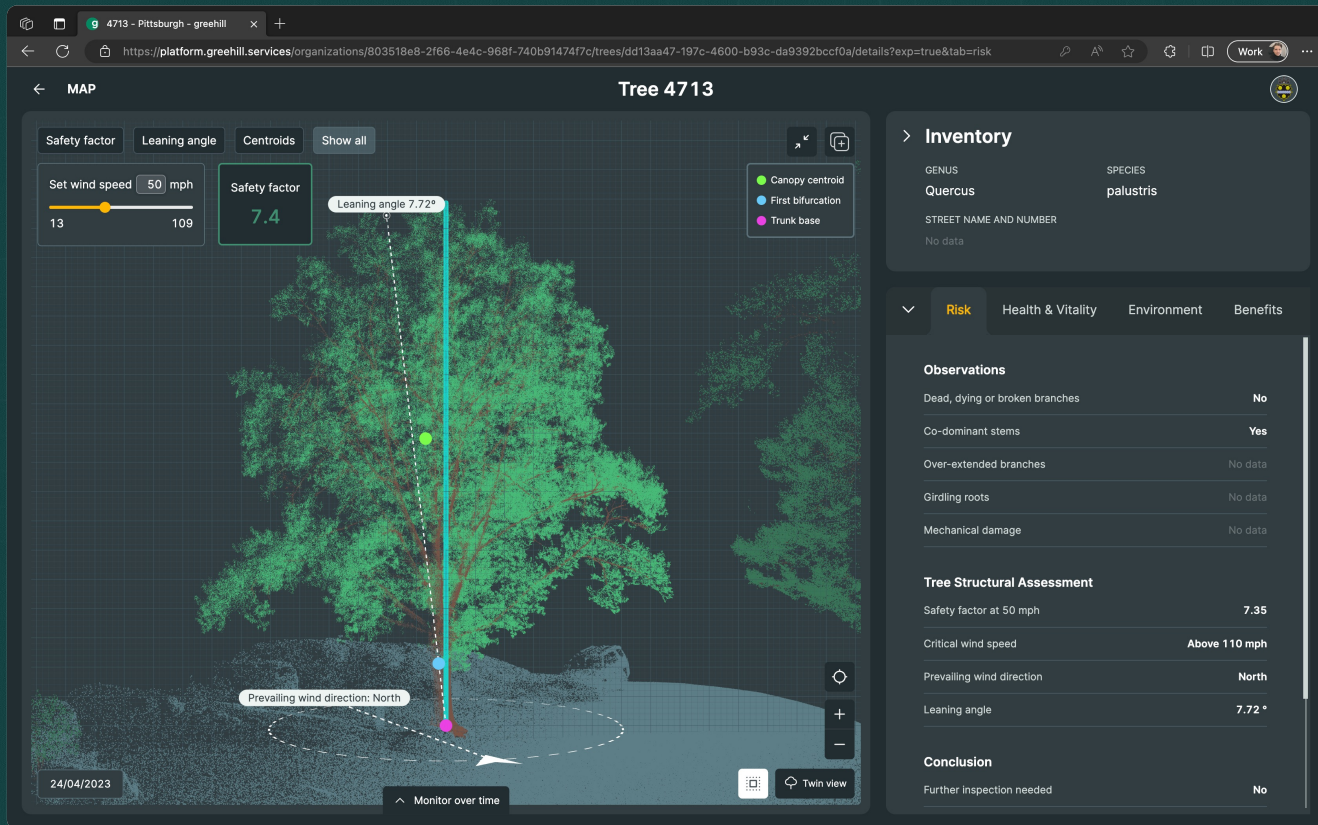
Environment

Benefits

Ecosystem Services



Safety Factor, Leaning Angle & more



Vitality, Diebacks, Cavities & more



4713 - Pittsburgh - greehill

https://platform.greehill.services/organizations/803518e8-2f66-4e4c-968f-740b91474f7c/trees/dd13aa47-197c-4600-b93c-da9392bccf0a/details?exp=true&tab=healthAndVit...

Work

MAPTree 4713

24/04/2023

Monitor over time

Twin view

> Inventory

GENUS

Quercus

SPECIES

palustris

STREET NAME AND NUMBER

No data

< Risk

Health & Vitality

Environment

Benefits

Condition & Vigor

Vitality (Vigor)

Normal

Live crown ratio

-

Condition

Fair (60%)

Dieback

9.82%

Leaf area / crown volume

No data

Foliage

Raised

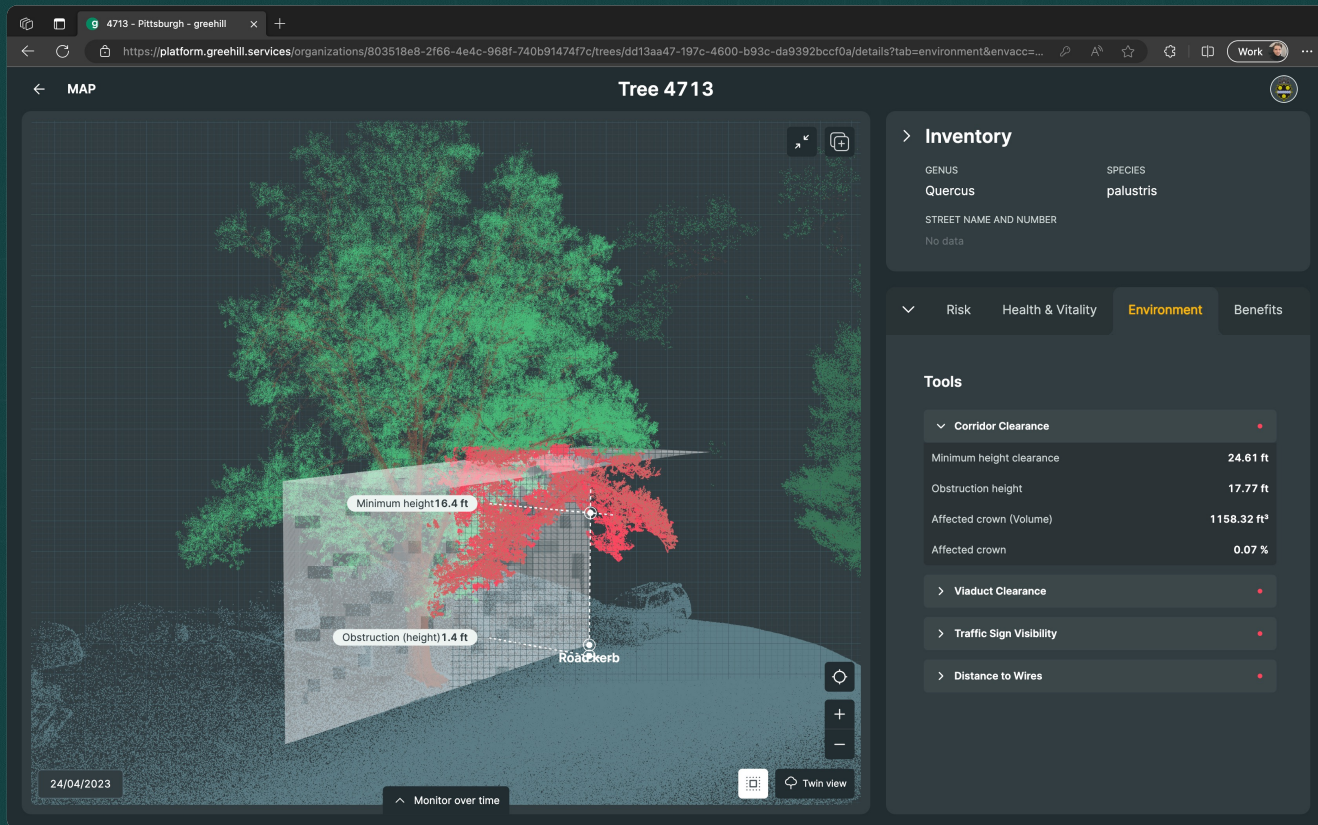
Observations

> Roots and Root collar

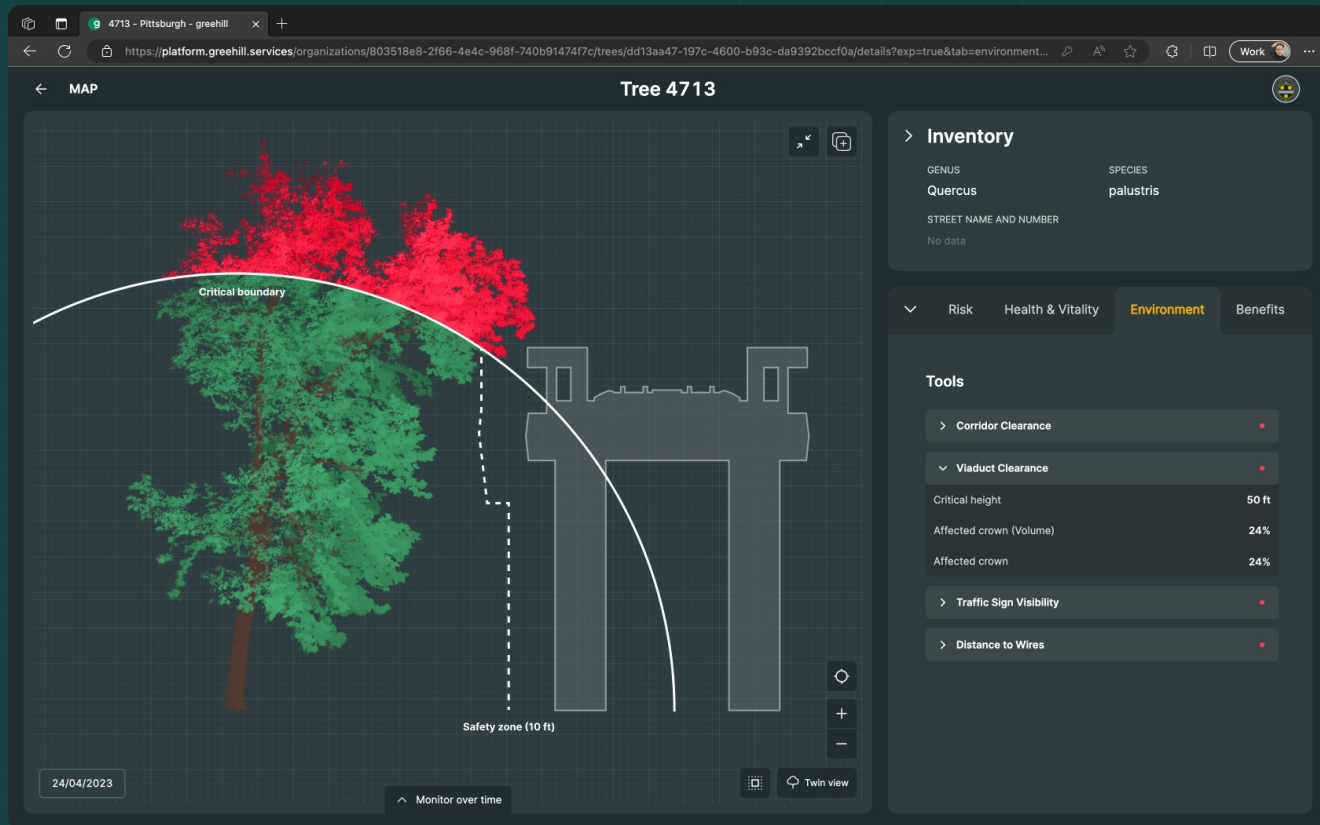
> Trunk

> Canopy and Branches

Corridor Clearance



Viaduct Clearance



Powerline Clearance



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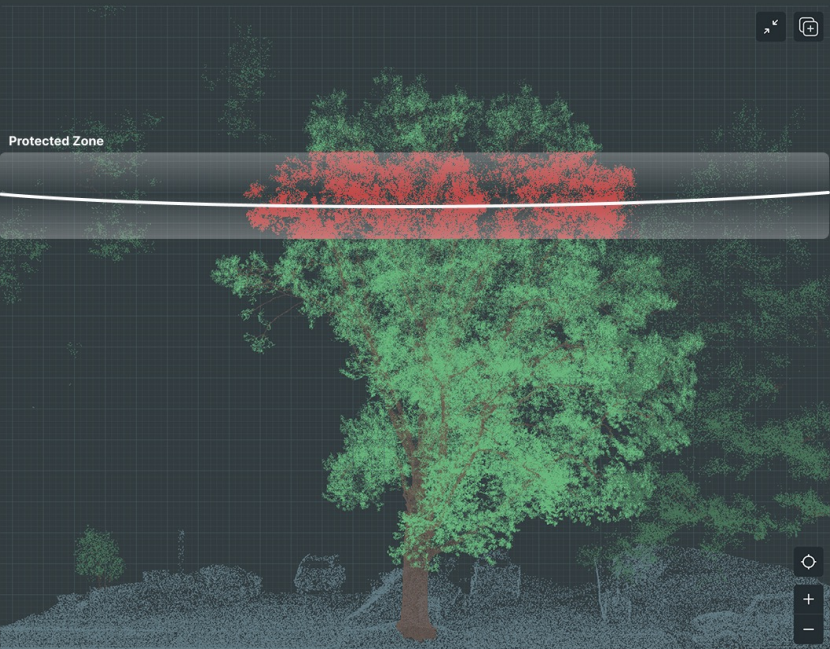
https://platform.greehill.services/organizations/803518e8-2f66-4e4c-968f-740b9147477c/trees/dd13aa47-197c-4600-b93c-da9392bccf0a/details?exp=true&tab=environment...

Work

MAP

Tree 4713

Protected Zone



24/04/2023

Monitor over time

Twin view

> Inventory

GENUS

Quercus

SPECIES

palustris

STREET NAME AND NUMBER

No data

< Risk

Health & Vitality

Environment

Benefits

Tools

> Corridor Clearance

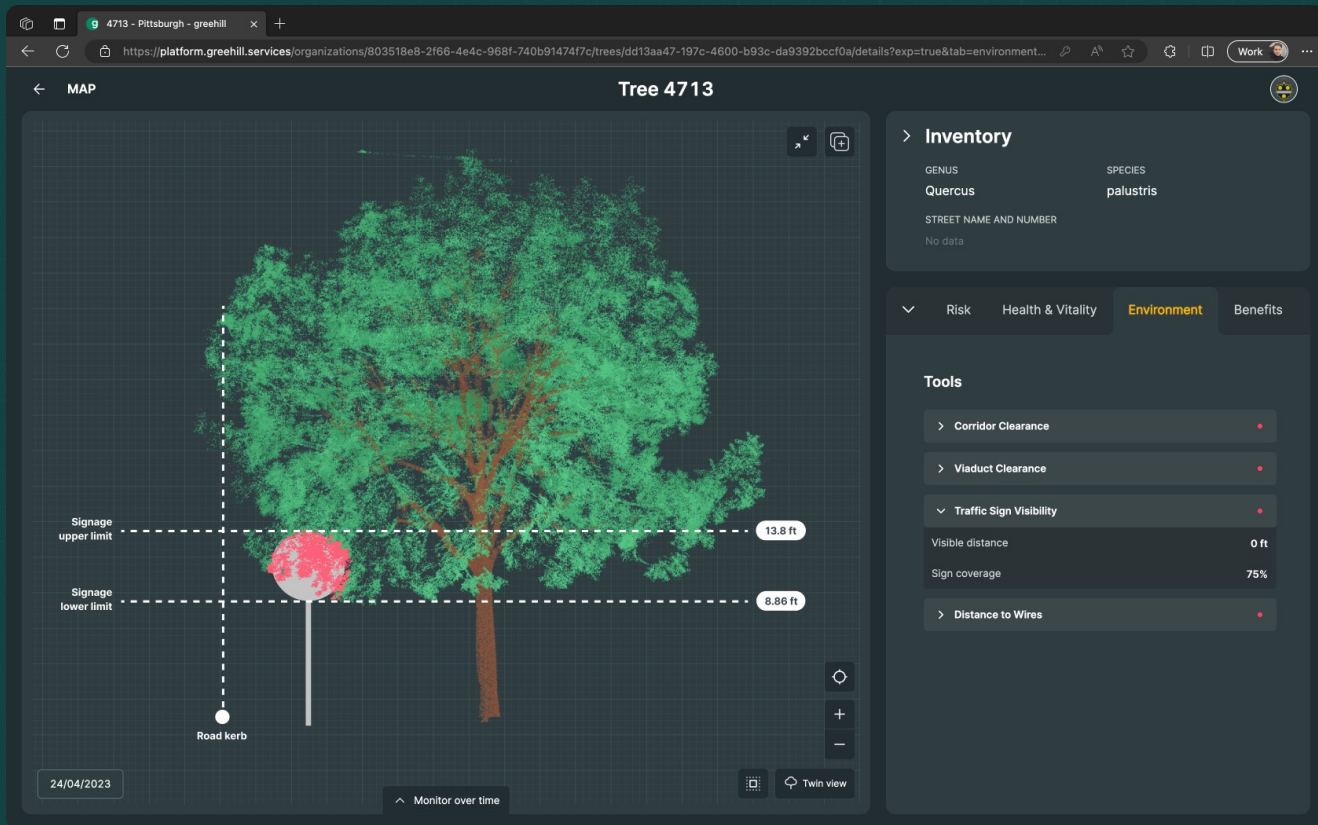
> Viaduct Clearance

> Traffic Sign Visibility

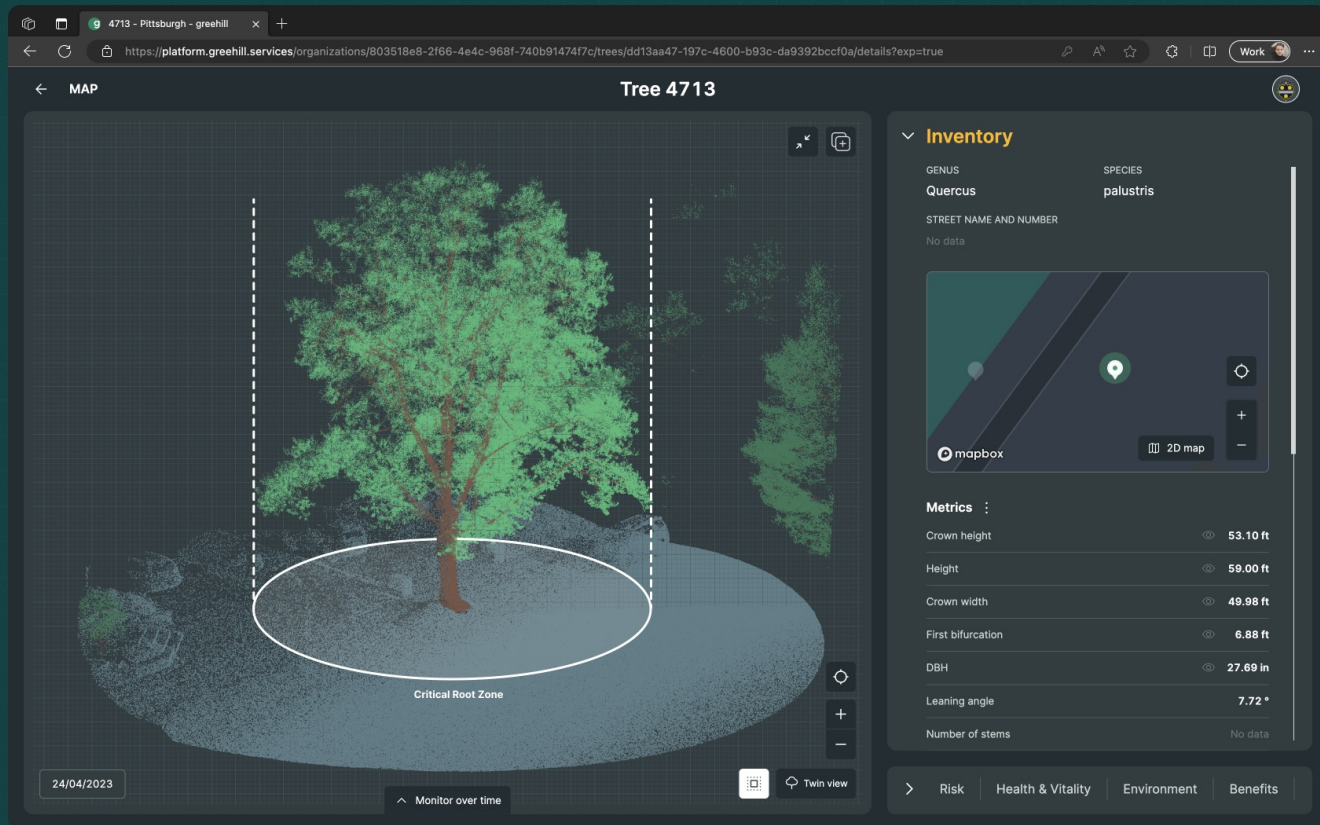
< Distance to Wires

Distance3 ft

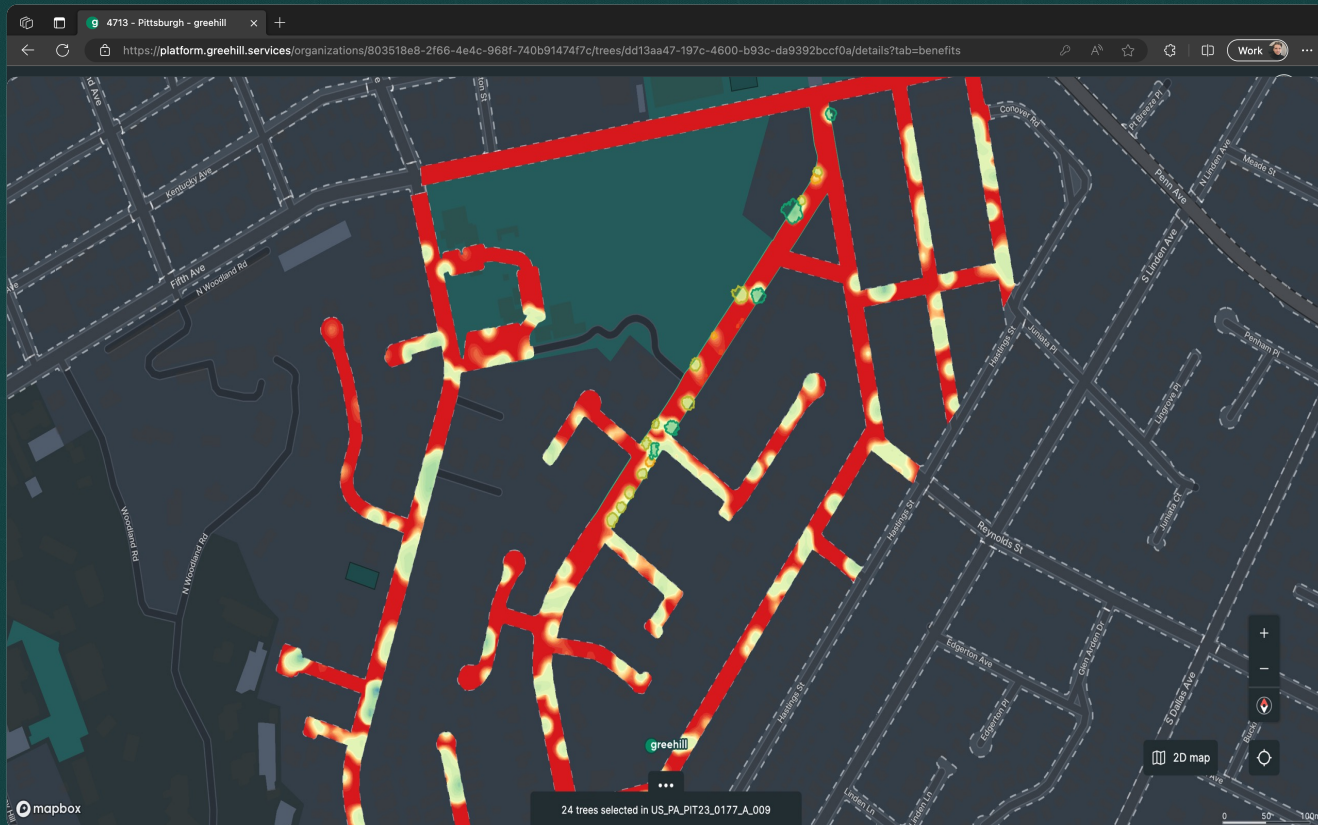
Traffic Sign Clearance



Critical Root Zones



Urban Heat Island Identification



Trusted and Recognized



Founded

2017

Projects

48 in 11 countries

People

85+

Locations

Budapest, Singapore,
Berlin, San Francisco, Paris



Trusted by NParks, Singapore



**Awarded by
EIT Climate-KIC**



Sustainability Awards 2022

handed over by the Minister of
Sustainability & Environment
of Singapore

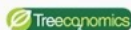


Co-funded by the
European Union

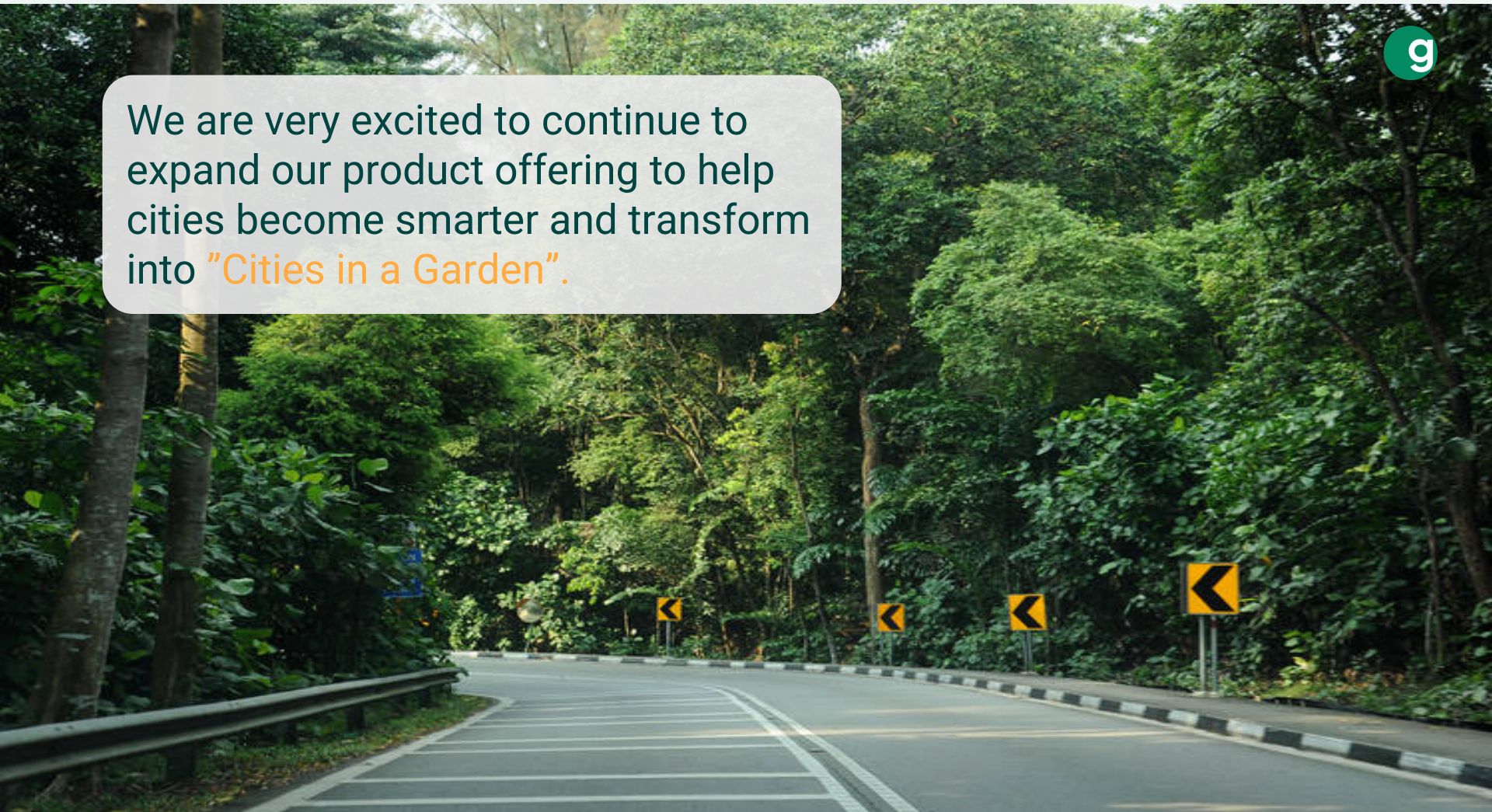


greehill Projects – from small to large

Our Greenery Partners

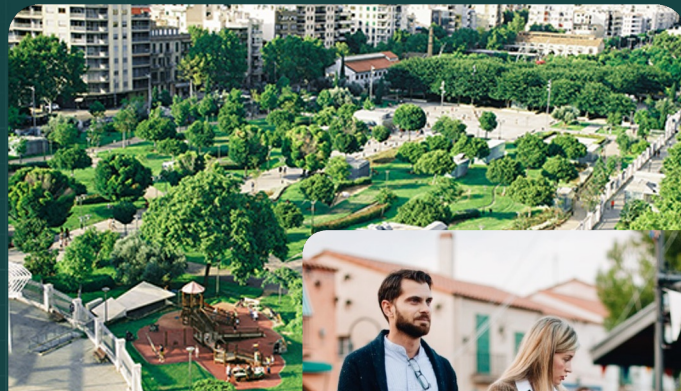


We are very excited to continue to expand our product offering to help cities become smarter and transform into "Cities in a Garden".



We give your **trees** a voice!

with greehill Smart Tree Inventory



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greehill.com

