iscf
Ministry of Housing and Urban Affairs

PRESERVE

RUPAL BAID | SHILPA SHASHIDHARAN | VAIBHAV SHARMA | VEERA VISHODHANA

MENTORS

EXTERNAL MENTOR

Mr. Emani Kumar
Deputy Secretary General, ICLEI
Executive Director, ICLEI South Asia

INTERNAL MENTORS

Dr. Mahesh Rajasekar
Chair, Urban Resilience,
National Institute of Urban Affairs
(NIUA).

Ms. Uditi Agarwal
Urban Planner,
National Institute of Urban Affairs
(NIUA).

CURRENT SCENARIO...

- Between 1900 and 2018, the average temperatures of India **rose by 0.7°C**.
- Country's average temperature is **expected to rise by 4.4° C** by the end of the year 2100.
- Target to **achieve 33% of green cover** from existing 24%.
- Urban spaces **declining in their carbon sink** capacity.
- **Lack of general awareness** about environment and related activities.
- **Responsibility of environmental protection** is thought to be of the government's alone.

THE BIGGER IDEA

- An interactive digital tool to help locate the green cover in the city.
- Shared responsibility for maintenance and planning of green infrastructure.
- Bringing various stakeholders dealing with urban environment (at city level) onto a single platform.
- To streamline data and thereby taking evidence-based policy for creating sustainable cities.

"Nature provides key benefits for resilience and can be the foundation for sustainability. It cleans the air and water, it provides food, beauty and serenity for people. The "green" realm provides immense benefits to societies, cities, and their citizens. Perspectives and solutions for creating cities that are resilient, sustainable, liveable and just for everyone"

GREEN COVER

- Pavement tree plantations
- Parks
- Urban forestry
- Urban Farming
- Blue-green corridors

THE PROJECT

PHASE 3

One-Go platform for activities, events and maintenance of Green spaces in the City [all stakeholders on-board] + SCB

PHASE 2

Actionable outcomes from the mapping + Classification of attributes for different green spaces.

PHASE I

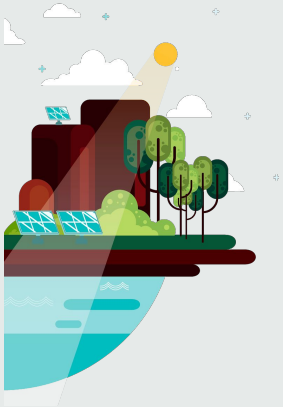
Mapping of green and open spaces using Master Plan and GIS data + Geotagging of trees

THE PROJECT COMPONENTS

An interactive open street map view for green spaces, trees and open spaces available for afforestation

TREE GEOTAGGING

GREEN SPACE MAPPING

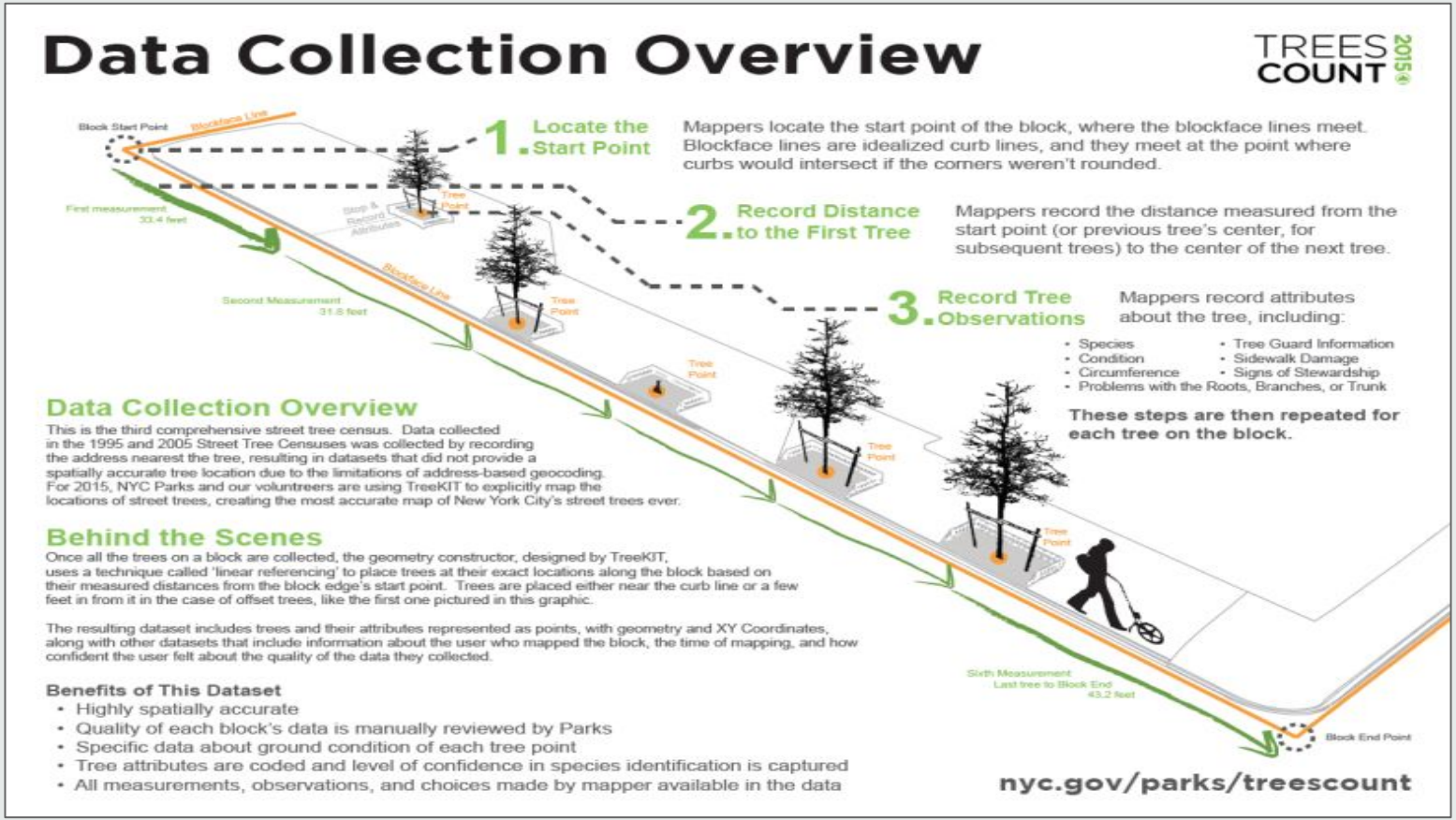


STAKEHOLDER SPACE

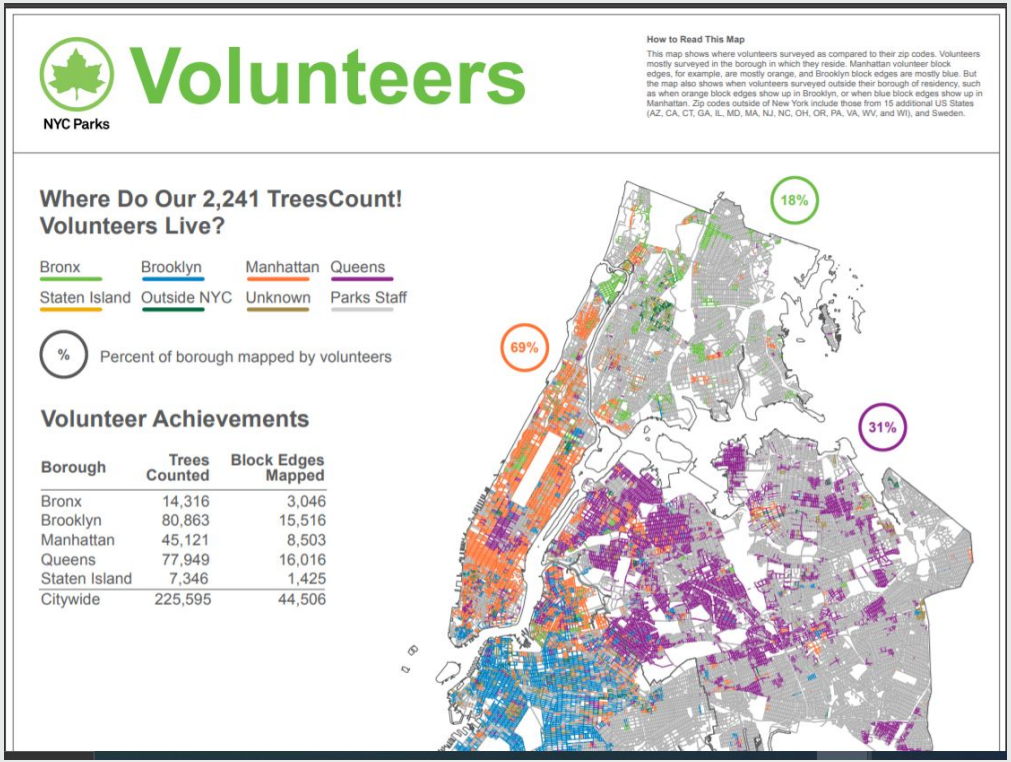
TREE GEOTAGGING

1. Green Corridors
2. Planned afforestation
3. Tree Maintenance
4. Tree diversity
5. Eco services mapping

- Mobile application development (in-line with NYC Tree-corder app)



Mapping Exercise



http://media.nycgovparks.org/images/web/TreesCount/Index.html

- Collaborating with NGOs, Citizen Volunteers and Institutions for Treecorder mapping [Ward level]
- A tree diversity/species AI based tool to be trained using Machine Learning to identify different varieties of trees.

Digital Output

Citywide Statistics

692,892 Trees on Map

26,133 Activities Reported

6,962 Trees Favorited

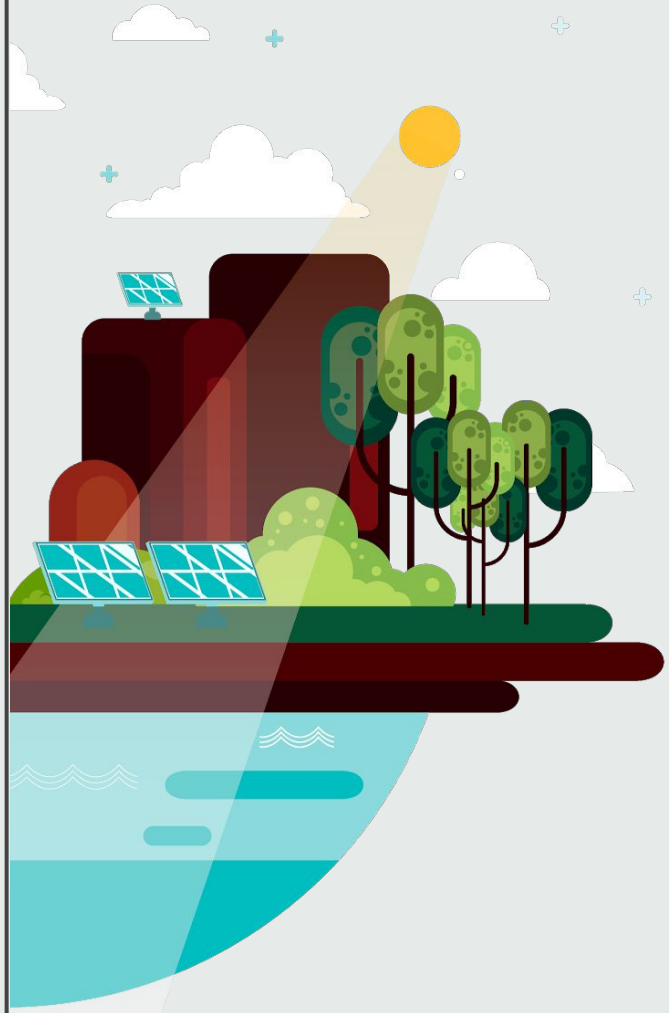
233 Tree Species on Map

London Planetree ›
Most Common Species
85,450 trees, 12% of trees on the map

Recent Tree Care Activities

Aug 17, 2020 The Japanese Pagoda Tree near 2715 Tilden Avenue was weeded, was landscaped/had flowers planted around, was cleared of litter/waste, had soil managed, was watered, and was mulched.

Tree Census in use

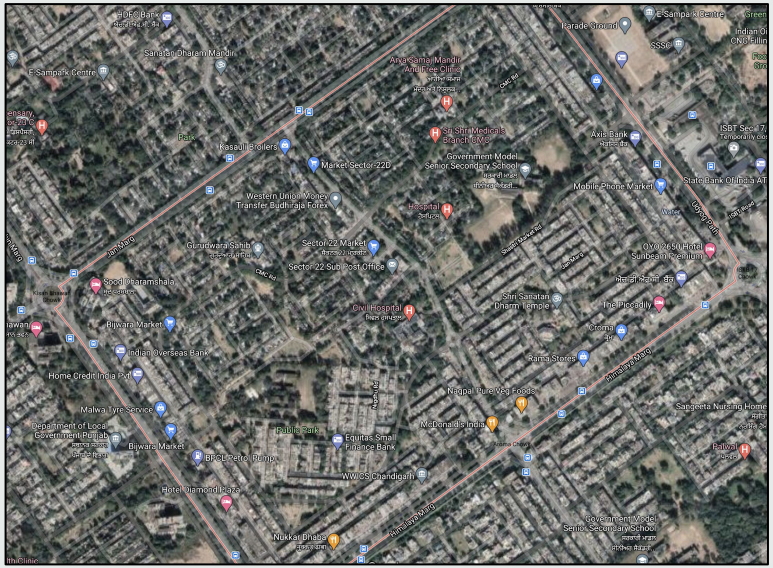


GREEN SPACE MAPPING

1. Amenities
2. Ownership
3. USP of the space
4. Events (Attend + Create)

MAPPING GREEN SPACES

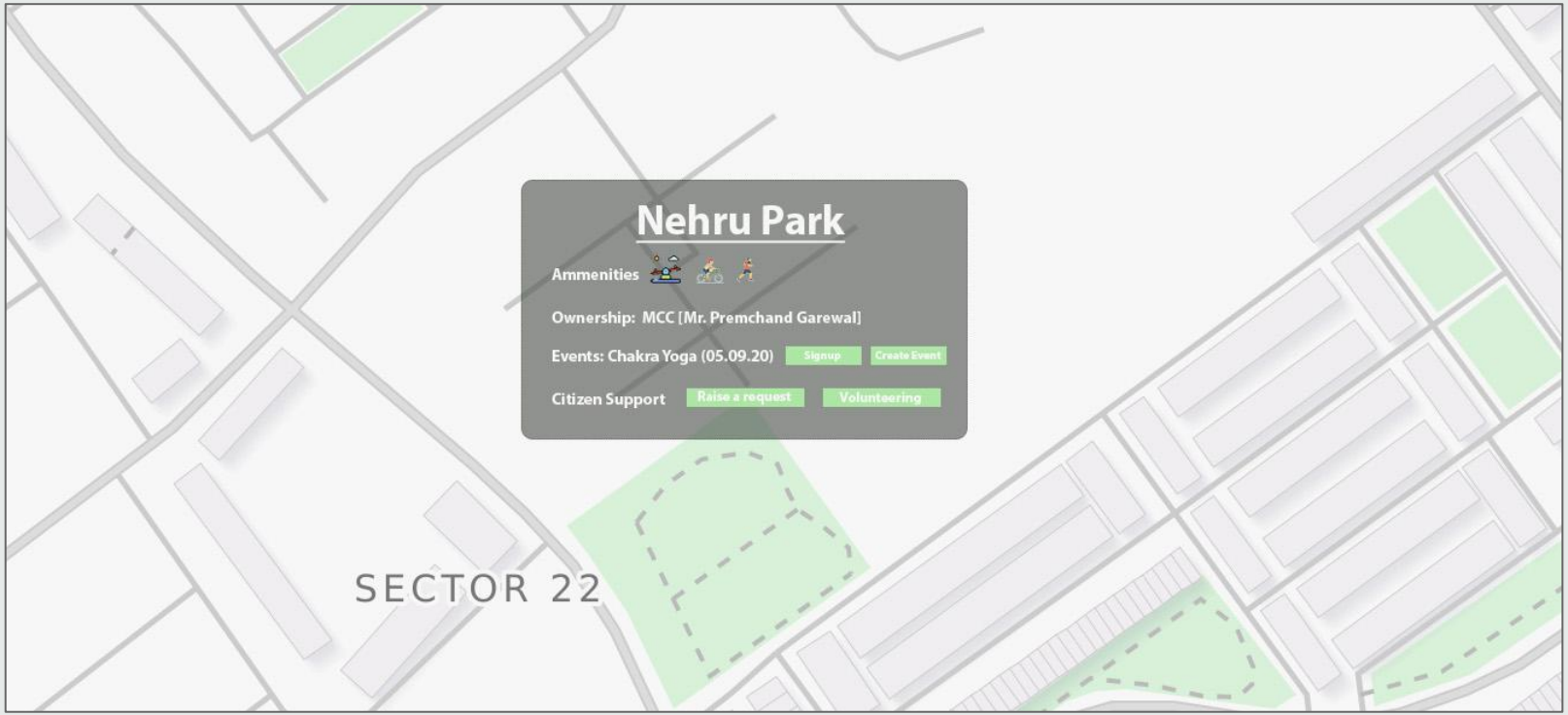
- Customised Map Shapefiles for Green Spaces across the city



Non-Customised layouts over Google Map interface

Customised Map Creation [CHD Green Spaces]

The OUTPUT

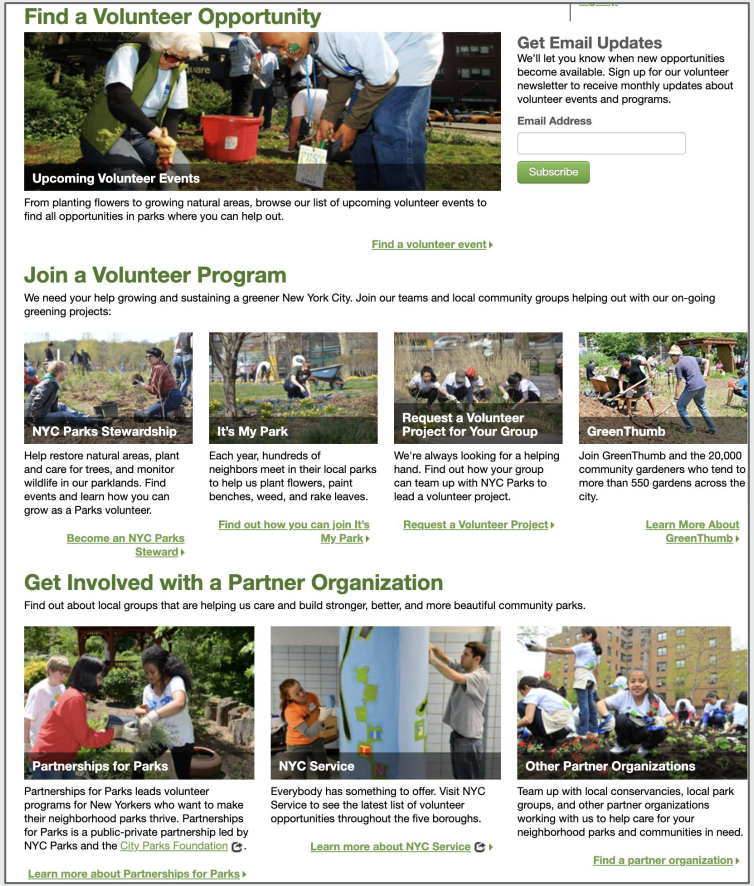


Amenities - Walking track, green gym, child friendly, restrooms, drinking water etc.

STAKEHOLDER SPACE

1. Events and activities by citizens, ULBs, NGOs, RWAs etc.
2. Awareness generation
3. Community hubs & clubs

STAKEHOLDER SYNERGY



Find a Volunteer Opportunity

From planting flowers to growing natural areas, browse our list of upcoming volunteer events to find all opportunities in parks where you can help out.

Find a volunteer event

Get Email Updates

We'll let you know when new opportunities become available. Sign up for our volunteer newsletter to receive monthly updates about volunteer events and programs.

Email Address

Subscribe

Join a Volunteer Program

We need your help growing and sustaining a greener New York City. Join our teams and local community groups helping out with our on-going greening projects:

Help restore natural areas, plant and care for trees, and monitor wildlife in our parklands. Find events and learn how you can grow as a Parks volunteer.

Become an NYC Parks Steward

Each year, hundreds of neighbors meet in their local parks to help us plant flowers, paint benches, weed, and rake leaves.

Find out how you can join It's My Park

We're always looking for a helping hand. Find out how your group can team up with NYC Parks to lead a volunteer project.

Request a Volunteer Project

Join GreenThumb and the 20,000 community gardeners who tend to more than 550 gardens across the city.

Learn More About GreenThumb

Get Involved with a Partner Organization

Find out about local groups that are helping us care and build stronger, better, and more beautiful community parks.

Partnerships for Parks leads volunteer programs for New Yorkers who want to make their neighborhood parks thrive. Partnerships for Parks is a public-private partnership led by NYC Parks and the City Parks Foundation.

Learn more about Partnerships for Parks

Everybody has something to offer. Visit NYC Service to see the latest list of volunteer opportunities throughout the five boroughs.

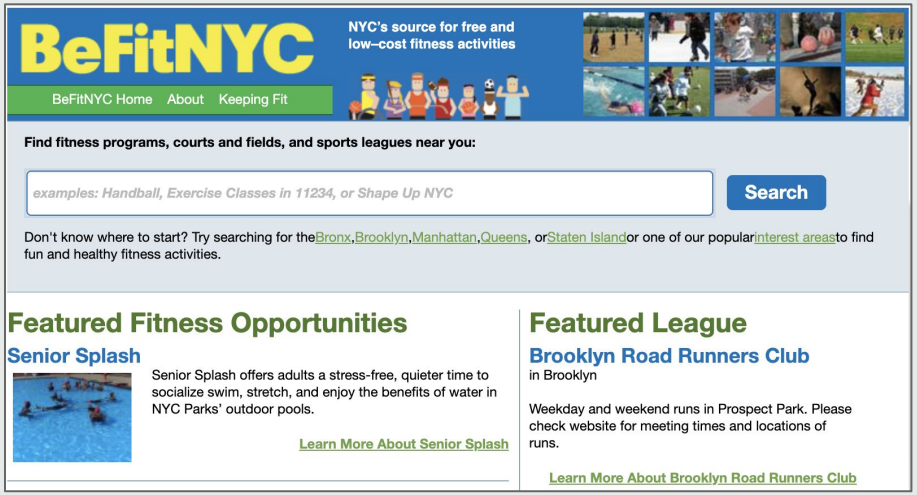
Learn more about NYC Service

Team up with local conservancies, local park groups, and other partner organizations working with us to help care for your neighborhood parks and communities in need.

Find a partner organization

- Create and Collaborate with citizens for various green events.
- Forum for citizens to reach out for partnerships and publicity.
- Forum for corporates and businesses to collaborate with local groups as CSR.

COMMUNITY HUBS

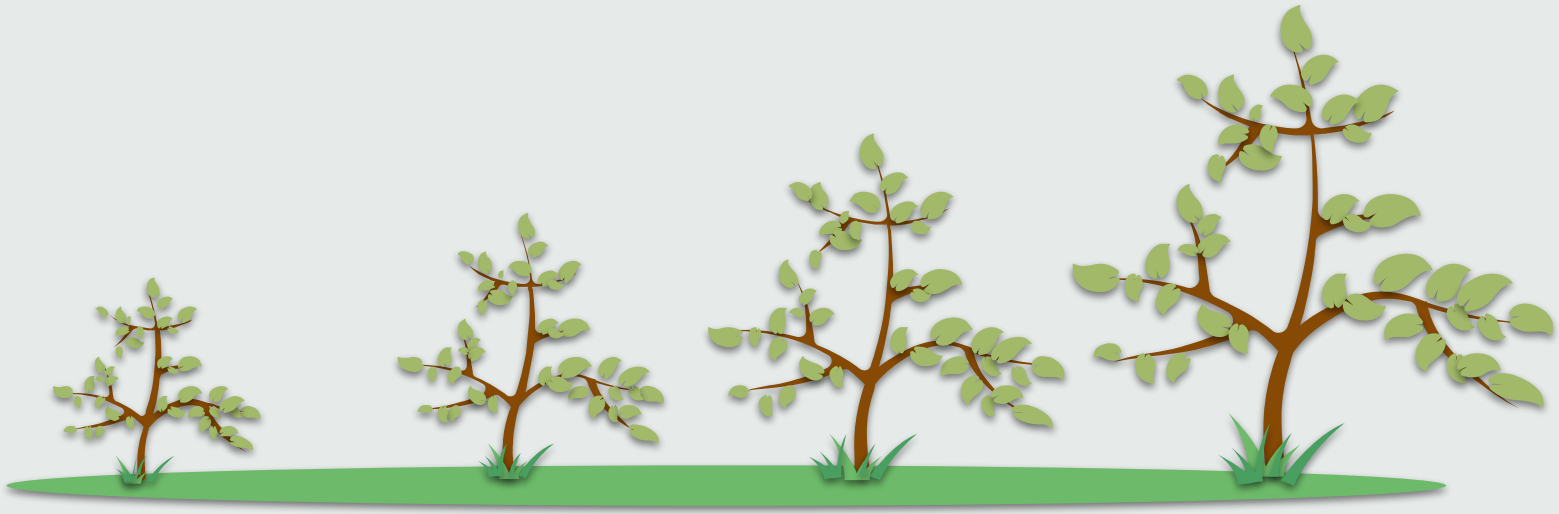


- Hassle Free permissions for activities in and around the green spaces.
- Knowledge sharing workshops and green skill courses.
- Promoting Citizen Fitness Activities & Events along with local Green Clubs.

KEY STAKEHOLDERS

- Citizens
- NGOs
- ULBs
- Environment or forest departments
- Research/Educational institutions
- Knowledge experts
- Corporates & Local Businesses
- Private nurseries

Timeline



Aug - Sep

Investigation phase

Oct - Dec

Development and execution phase

Dec - Jan

First output received

Jan - Feb

Review and expansion proposal

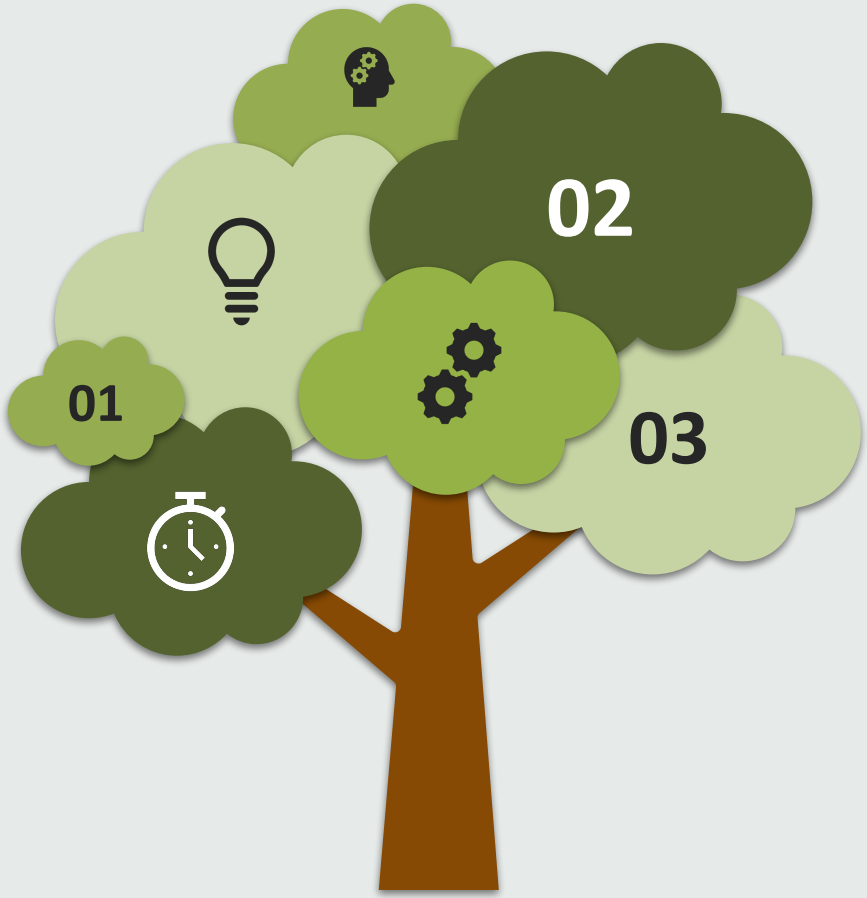
TENTATIVE COSTING

₹4,30,000

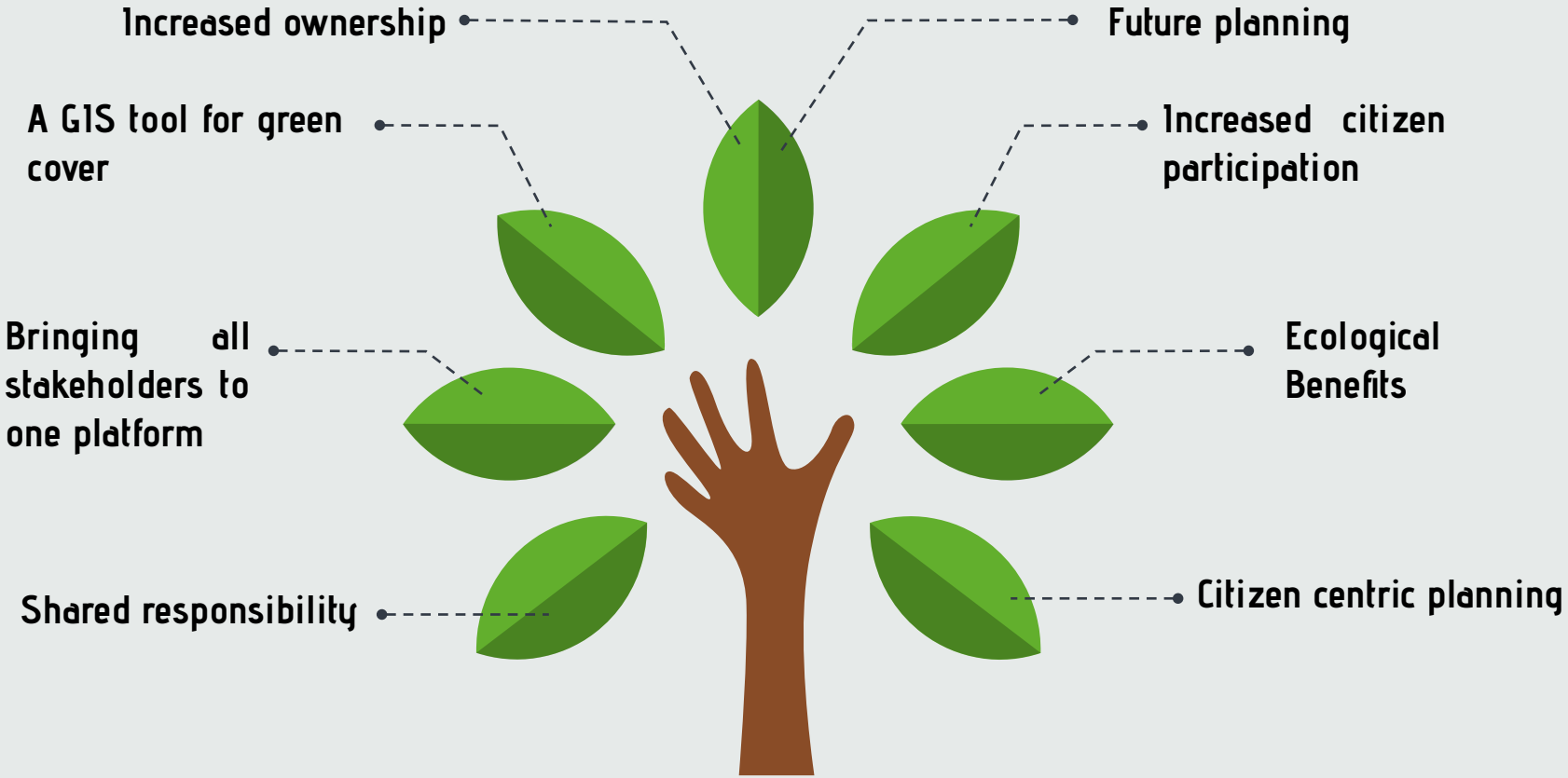
MARKETING/OUTREACH/SURVEYS	₹50K–2L
DESIGN & DEVELOPMENT	₹30K–1.5L
CAMPAIGNS (URBAN FOREST MODELS, MARATHONS ETC.)	₹50K
INCENTIVES & BENEFITS + MISC	₹30K

CONCERNS

- COVID-19 Constraints
- Trained Volunteer Support
- Gathering ownership data from govt. departments/bodies.
- Ecosystem services mapping
- Mapping sensitive/private places

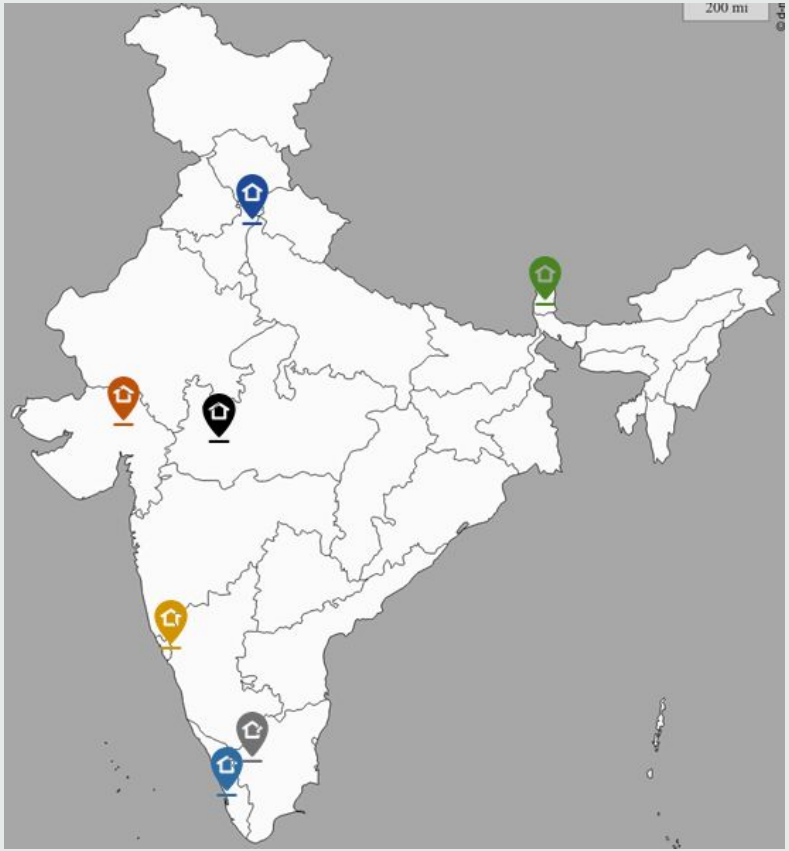


NOT JUST "SMART CITIES" BUT"SUSTAINABLE SMART CITIES"



Selected Cities

- Panaji (Goa)
- Chandigarh (Chandigarh)
- Kochi (Kerala)
- Coimbatore (Tamilnadu)
- Indore (Madhya Pradesh)
- Gandhinagar (Gujarat)
- Gangtok (Sikkim)



INITIATING INDIA'S FIRST GREEN BRAND