

Session 1.2

Barefoot in the Park: How contact with nature can affect our health and wellbeing

Chair: Thomas Hofer





Barefoot in the Park: How contact with nature can affect our health and wellbeing.

Creative Community Engagement Strategies for Green Infrastructure Projects



Presented by

Matthew López-Jensen

Environmental Artist & Educator

(The New School & Fordham University)





THANK YOU!

World Forum on Urban Forests

The New York City Urban Field Station

The Nature of Cities (TNOC)

The New School

Everyone who selected this session!





The environmental arts course I created and teach at Fordham University.







Volunteer With Us Meet some new

Community Partner



The course is anchored in the history of community activism.



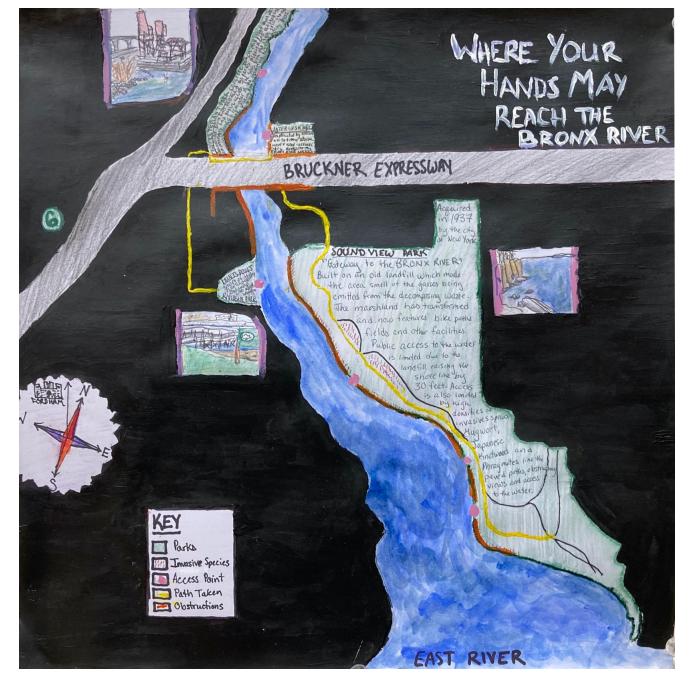
This is the Bronx!



Student work, Plant ID cards, donated to the Bronx River Alliance for use by educators



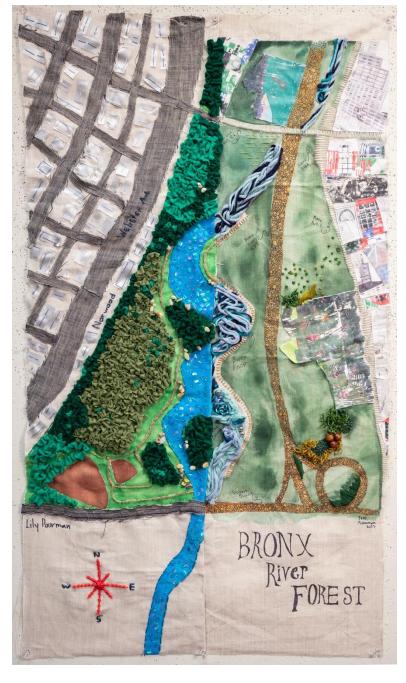
Student work, Plant ID cards, donated to the Bronx River Alliance for use by educators



Student work, creative mapping, creative maps donated to the Bronx River Alliance for use by educators



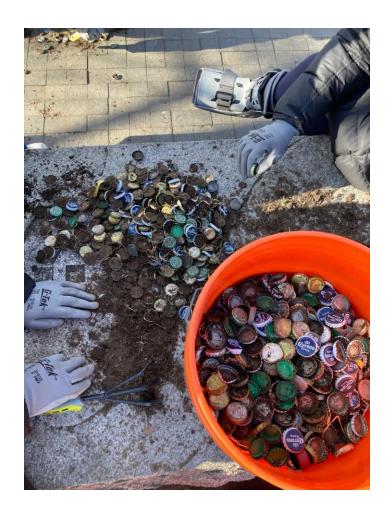




Student work, textile maps donated to the Bronx River Alliance for use by educators



Student work, textile maps donated to the Bronx River Alliance for use by educators





Student work, bottle cap "snake" made from caps removed from park, donated to the Bronx River Alliance for use by educators

THE NEW SCHOOL

OURSE CATALOG



PSAM 2891 ENVIRONMENT

PARSONS SCHOOL OF DESIGN: ART, MEDIA &

TECHNOLOGY

IMAGE, ACTION, & ENVIRONMENT FALL 2022

TAUGHT BY: MATTHEW LÓPEZ-JENSEN

SECTION: A

CRN: 14664 Credits: 3

This course is designed around direct experience with New York City coastlines, parks, and community gardens. Students will use their creative, social media, and photography skills as advocacy tools for sites of their choosing and to further ecological and environmental justice initiatives. Students will also experiment with care-centric actions such as planting, cleaning, fixing, maintaining, and other activities that are now extensions of contemporary art practices. This course celebrates blurring lines between art-making and activism. Throughout the semester we will visit and photograph a range of sites and meet with the community stewards and non-profit organizations charged with maintaining and protecting these spaces. We will learn about environmental and commercial threats facing these places and create work that advocates for change. We will acknowledge and explore Indigenous histories of the landscape and how these relate to current land management conflicts and contemporary art practices. We will also explore artists whose work combines social practice, activism, and environmental action.

Open to: All University undergraduate students, Successful completion of first year



Historic community garden action in the South Bronx

The environmental arts course I created and teach at The New School.



Assignment 1

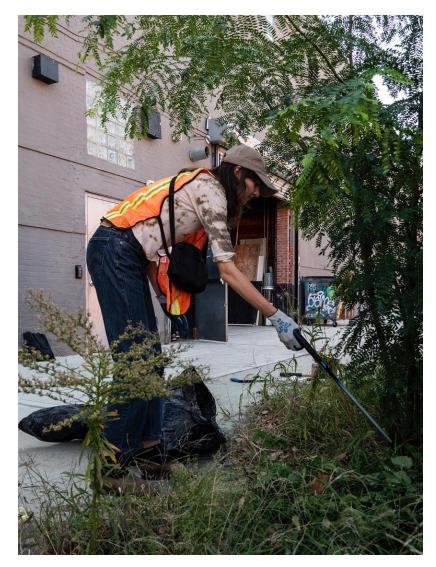
Plant a tree.

Make it art.



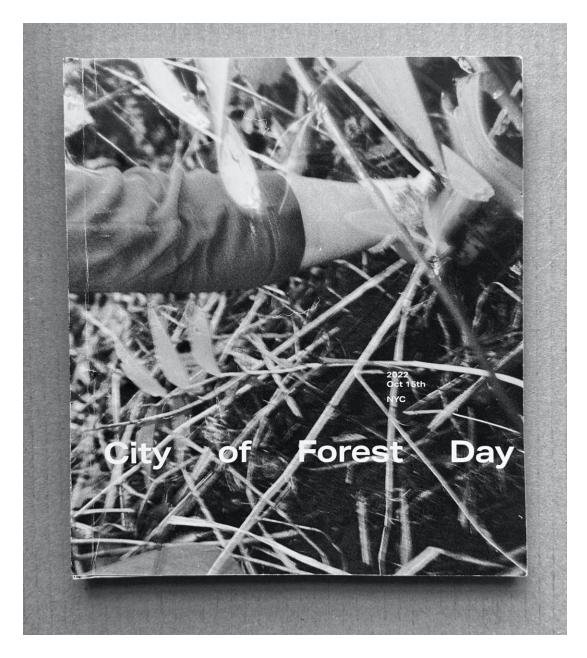


Join us **Saturday, October 14, 2023** for the second annual City of Forest Day! After a successful inaugural City of Forest Day last year, we are thrilled that this citywide celebration of the urban forest will take place again this fall. Presented by Forest for All NYC in partnership with the Parks and Open Space Partners – NYC Coalition and NYC Parks, City of Forest Day is an annual day of activities across the city to raise awareness of the importance of the New York City urban forest, and the essential role New Yorkers play every day in caring for the "lungs" of our city.





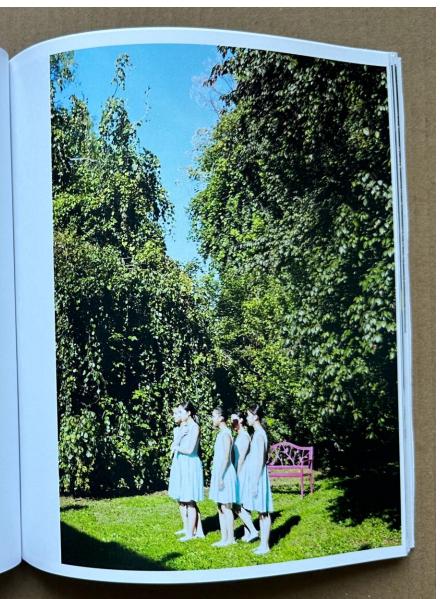
Student work from City of Forest Day (pictures of stewardship)





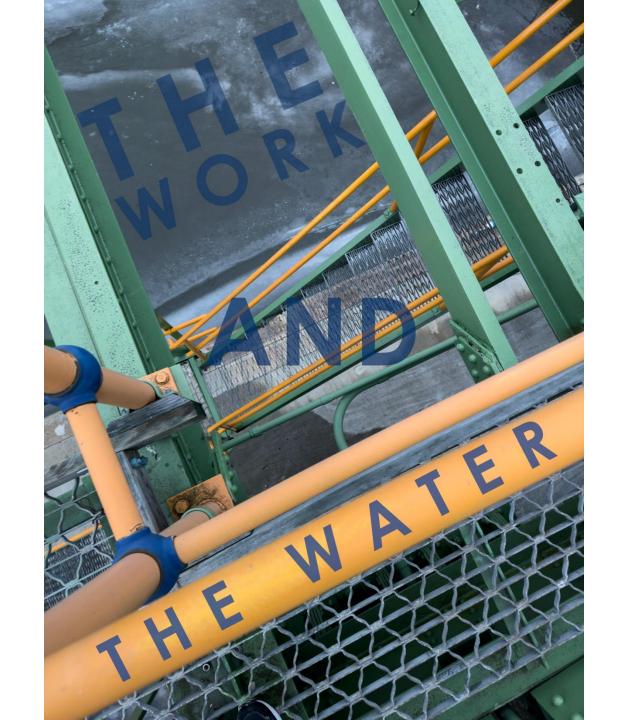
City of Forest Day Magazine: Issue 1

It was my first time attending a birthday party of a tree, it was fun and exciting.



THE ERIE CANAL

Artist-in-Residence





Participation and Engagement

Employees who work in the field throughout the system were mailed a personal call for participation. Each letter contained a thank you note, photo postcard, hand-decorated cards for participation, and a stamped return envelope.

This is the first time canal employees have interacted with an artist-inresidence in the 200-year history of the system. The contributed texts will define the finished series of works. They will also remain in the archive at the Erie Canal Museum.

The idea is to create a series that recognizes the off-season work and the unseen labor that makes this recreational corridor function.



THE WORK AND THE WATER

Name: Steve Thorp

Site/Location/Lock: Lysan Lev (optional)

Question 1:

Describe one of the more challenging tasks you do during non-nav season?

(Use the other side of the card)

IN the FAIL WE Remove

Heavy electrical equipment From

CABINETS. WE MOVE; TTO OUR

ONSITE WOLK Shop where WE

LIS ASSEMBLE IN SPECT and REFINISH IT

BE FOR REASSEMBLY. Then REINSTALL

IN CABINETS BEFORE NAVIGATION

SEASON.

DEGREASING GEARS The reason we do tree

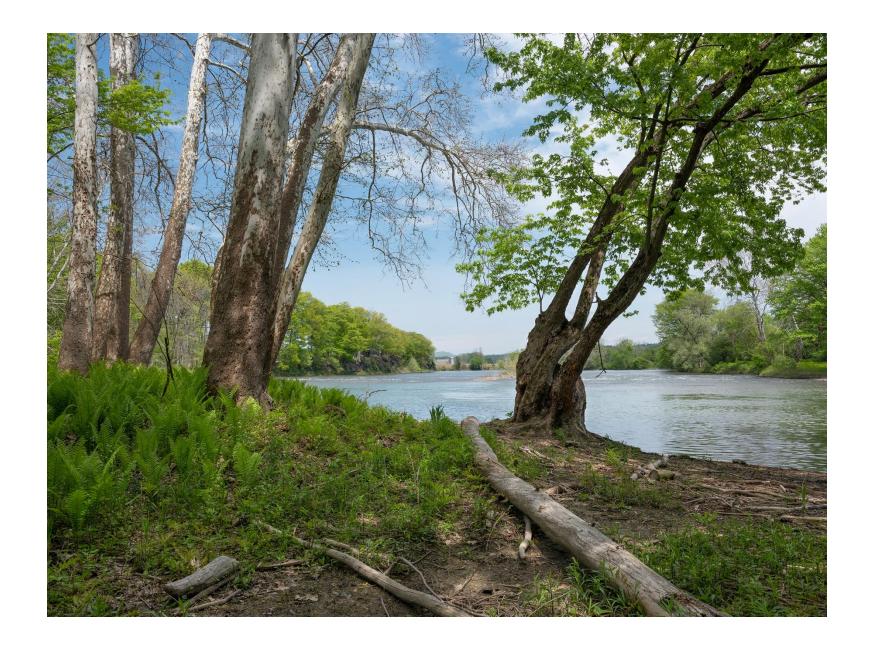
Maintenance is not dust for

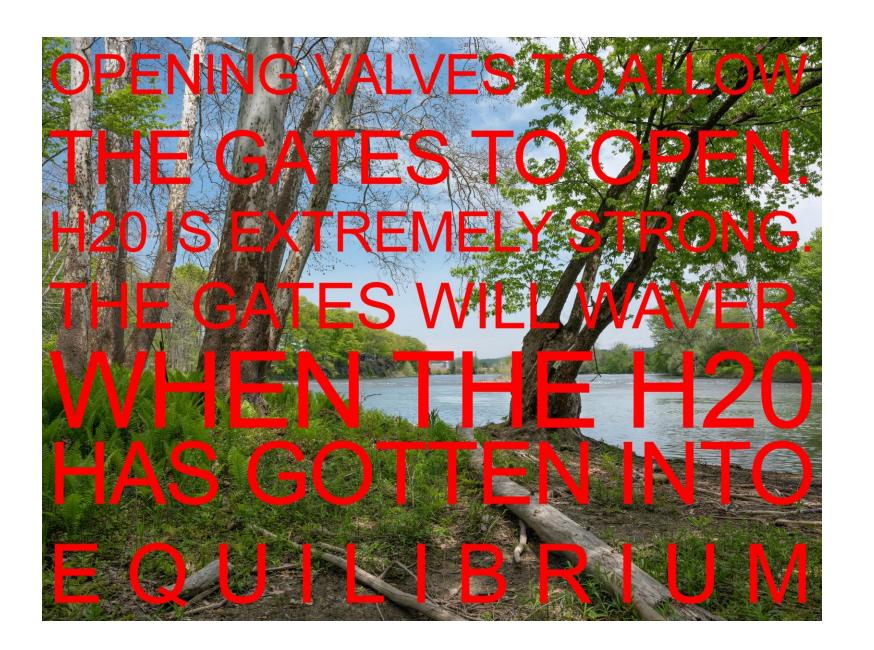
Looks. It prevents dam. Failures

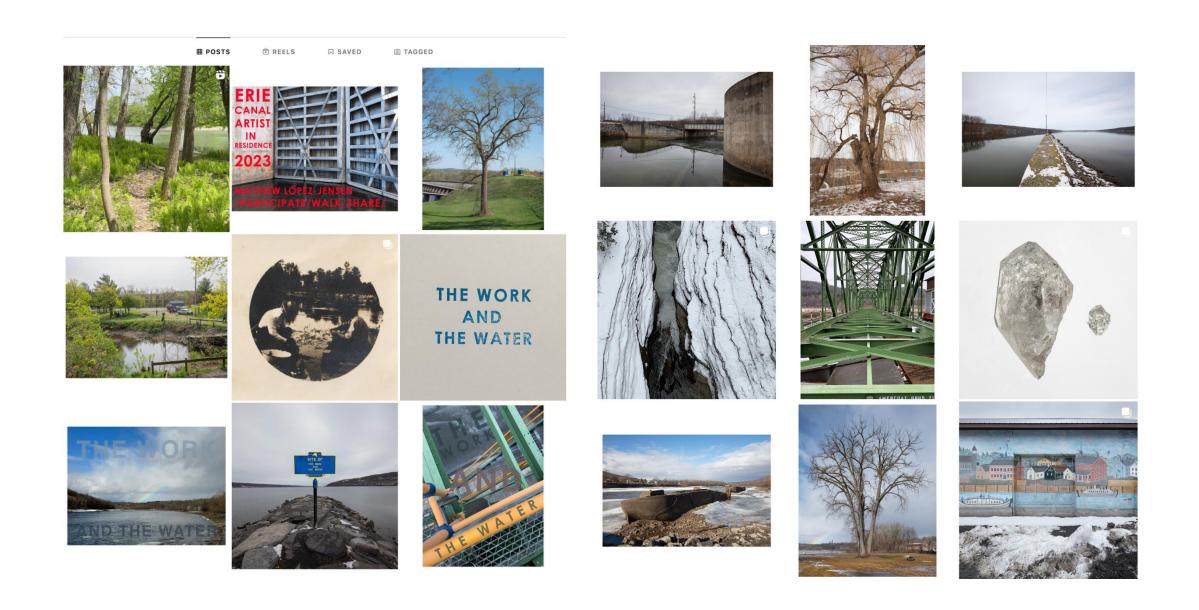
and Blockeges important for water

Level control

OPENING VALVES TO ALLOW THE GATES TO OPEN. HZO IS EXTREMELY STRONG. THE GATES WILL WAVER WHEN THE 420 HAS GOTTEN INTO EQUILIBRIUM. VERY COOL. SPECTATORS ARE VERY IMPRESSED.







Instagram @all524miles

"Remember when we..."

VS

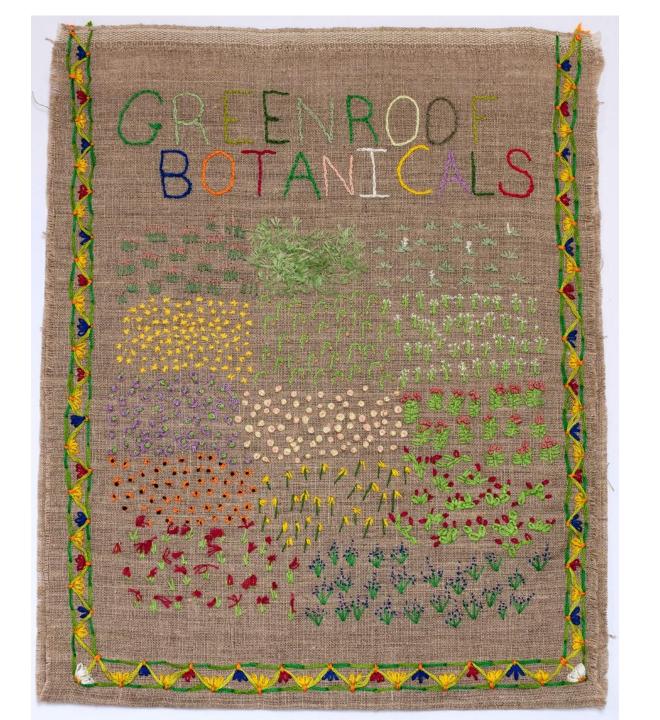
"Remember when they..."

Creative Community Engagement Strategies for Green Infrastructure Projects

Project 1: The Tibbetts Estuary Tapestry

A community-embroidered map and provocation in the Northwest Bronx

- Storm water management
- Historic waterways
- Combined sewer overflow
- Green roofs
- Heat island effect
- Pedestrian access
- Native flora

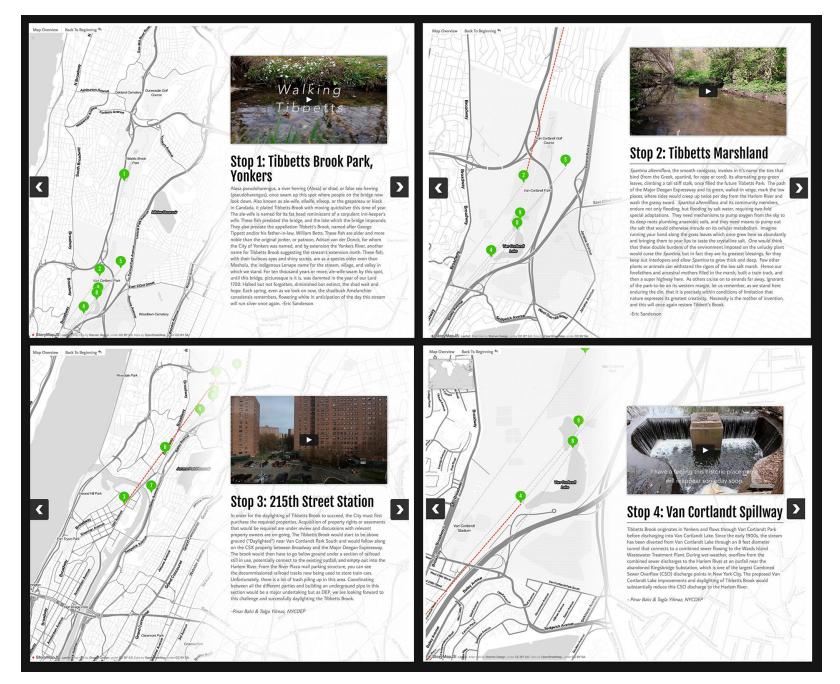


The Tibbetts Estuary Tapestry

Matthew López-Jensen

and

Ana de la Cueva



Walking Tibbetts, Interactive web-based map, video, photography, essay, 2021



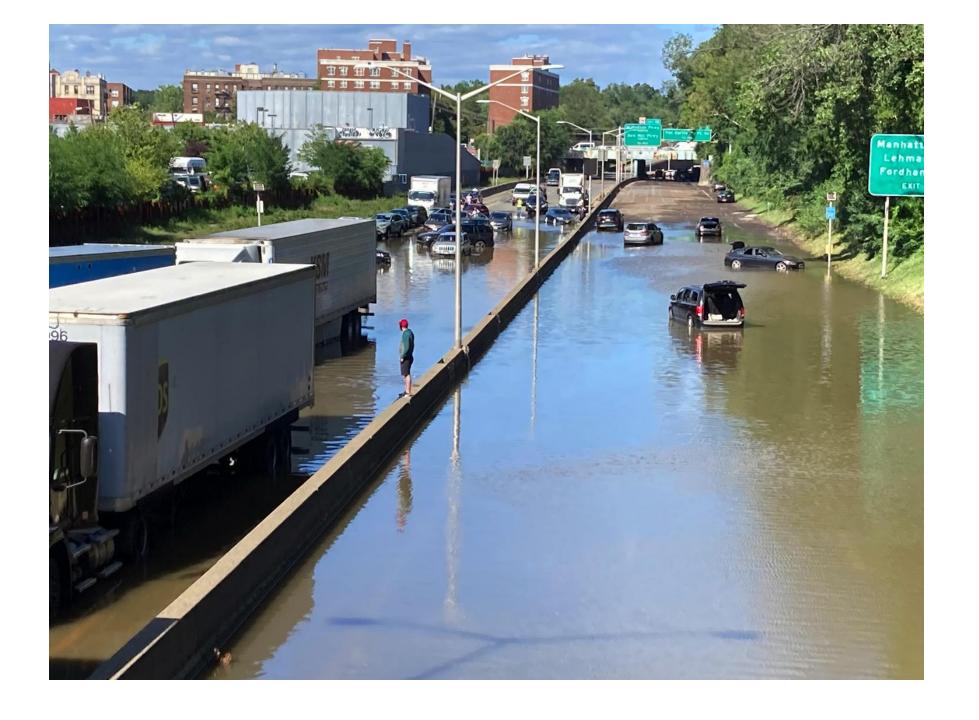
Tibbetts Brook, as glimpsed from within the fenced off, inaccessible, eco-nightmare that is the golf course.



The last we see of Tibbetts...until the floods.



Pictures I took on the way to get groceries one day when we were making international news.





The New York Times

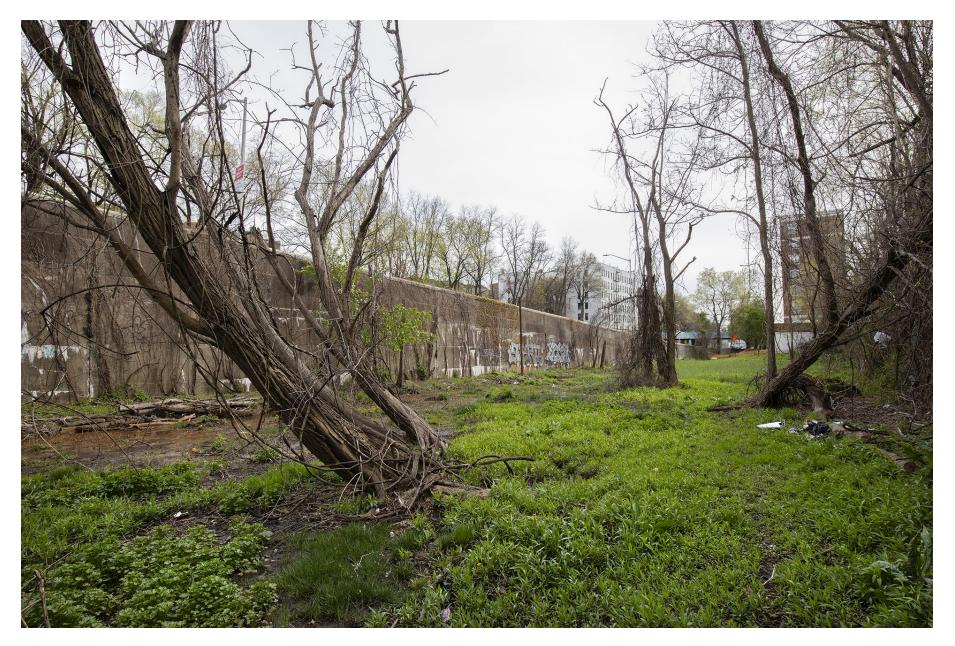
World U.S. Politics N.Y. Business Opinion Science Health Sports Arts Books Style Food Travel Magazine Real Estate Cooking The Athletic Wirecutter Games

Why New York Is Unearthing a Brook It Buried a Century Ago

A plan to "daylight" Tibbetts Brook in the Bronx would be one of the city's most ambitious green infrastructure improvements.







A bit of land along the highway where the future daylighted stream and pedestrian corridor will go/flow.

New York City took the Tibbetts estuary and marshland, filled it in, sold it off, and built on top of it.

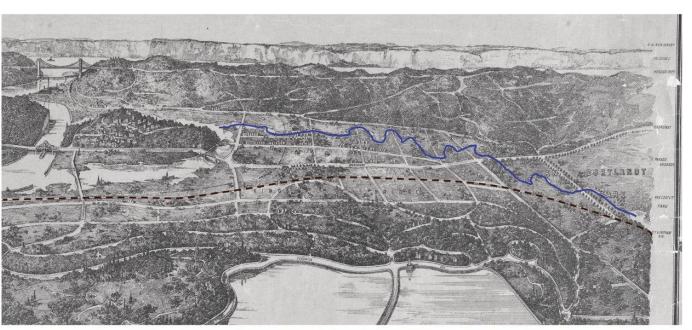
Acres and acres of big box stores with big flat rooves, parking lots, storage units, schools, and not a green roof in sight!

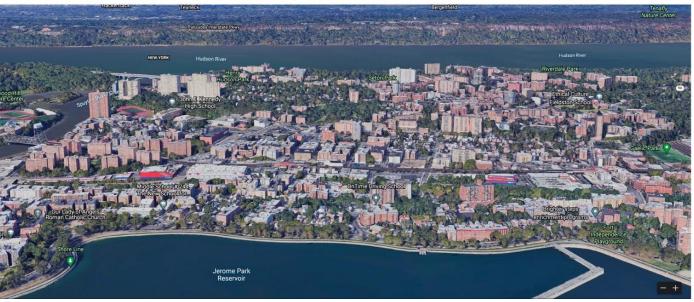
Daylighting Tibbetts is a great start but the real transformation, the real community benefits, will come from green roofs.

NYC should not hide behind regulations and code that can be circumnavigated.

NYC should install the green roofs.

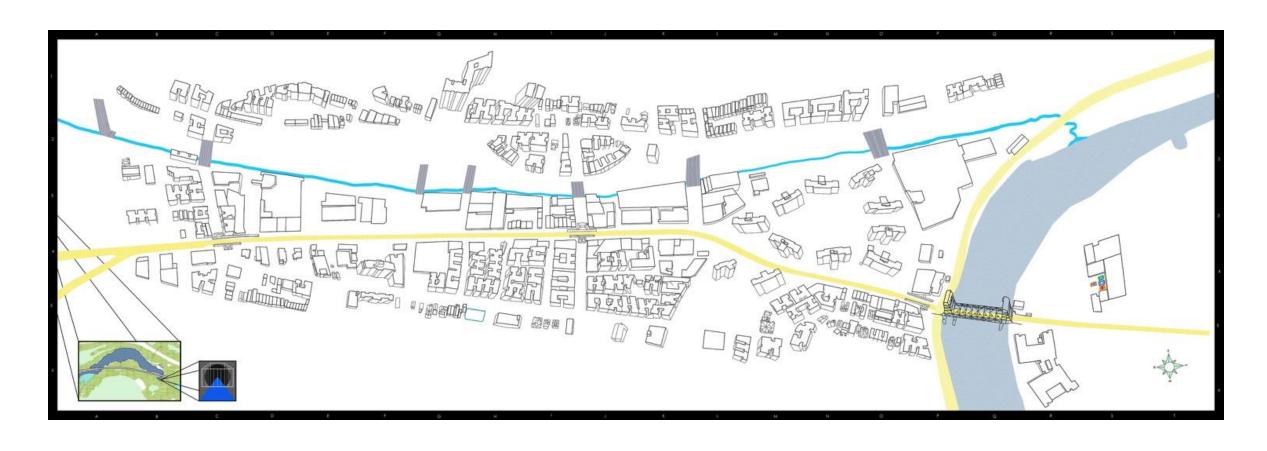
It's cheaper than flood damage and cheaper than an expanded sewer treatment plant.







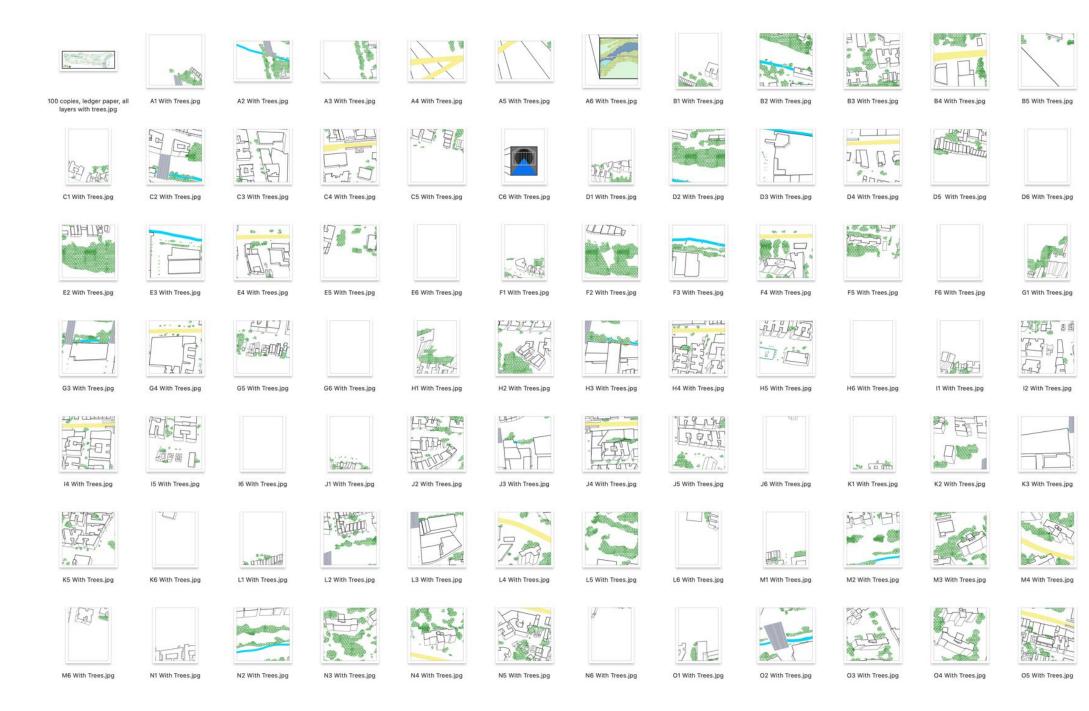
The former marshland today



Turned into a map

What is a "green roof" and how can it help? This project answers these question using thread.





B6 With Trees.jpg

E1 With Trees.jpg

1 Hands. 4

G2 With Trees.jpg

13 With Trees.jpg

K4 With Trees.jpg

M5 With Trees.jpg

O6 With Trees.jpg



Map fragments turned into machine-embroidered tiles for participants to embroider.

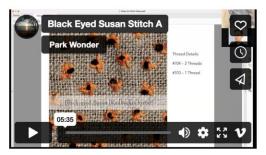




A few of the 15 plant stitches I created for the projects.







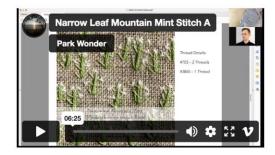


















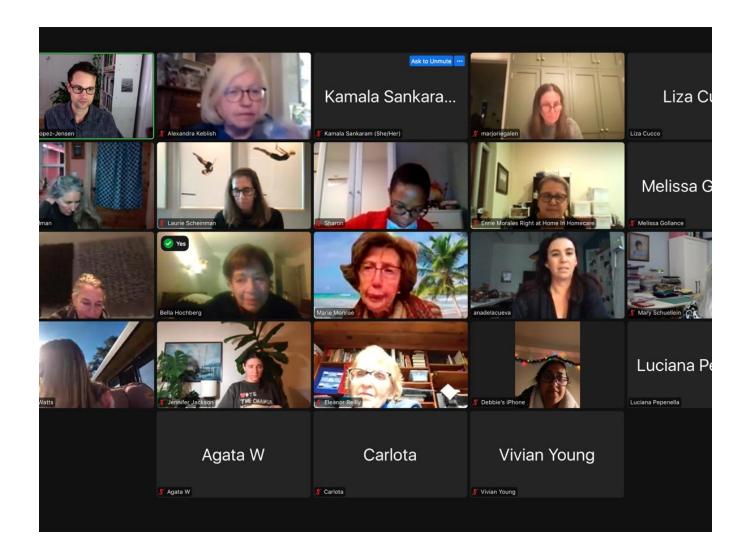








Teaching embroidery at the farmers market



Zoom calls with volunteers and a bilingual how-to website for teaching.

The Tibbetts Estuary Tapestry

1194801

A Community Embroidery Artist Project

WITH ARTEST DAY OF LA COSTA DAD WATTERN LONG-JORGIN



The Tibbetts Estuary Tapestry Project imagines green roofs on all of the buildings along Broadway that were built on former wetlands

It is a may of the possible. It explores an entered to the angest quantions what do we do with all of this weller? Those flowing in the Sectionary Bisson are familiar with the highest sources along Sectionary the Segar, Beed Rep. Add, Staples, Slow & More, and become an interest commercial papers from the Section Store to the Conform First.

that the subway was extended this har north the views front the glathative way month of securities there it is unably unabless. And own flooding is a long problem. And while if there was a coordinated effort is unable edited any extended not anotherway green credit if would consider management of the country or provide habitat for planes, useds, and lamb, and mitigate flooding exemts for generations. And it would be beautiful.

Laspro pil abbot the project from Anji prof Matthew in the yobse to the

How can I get involved?

Actors Softman Doce Investment And the Cycles New Adequate the public of prison to image the precisions of green result, with Moveal. The Norseled Docestry will be filtered not long and all test bell and will consol of EDD Vise. As a participant para will insolve one of these bias to antendate between any other trees. When your tips is complete it will be exhibited fragetter with all the others to create the first faces for DV asket and it would be the complete it will be exhibited fragetter with all the others to create the first faces for DV asket for all the contributions.

his experience with enterpolary is occasiony and perfection is not assected Learning New to embracion is part o the experience

Since you right up there) you will receive a Tablette Kit to the mail or you can prote arts up at an in parties and their event activities below:

Earth for with hardware dwo-pieces of finant, may be practical and sone that is a sacritum of the resighborhood map with nothing the job to assistantive a global must be as an allowing a restriction of personal productions. The probability and contact and method from the probability contacted tition. The visitions for the property and the results patific. These come for the most initial time.

can request an endressery let be sent to you in the most and fullow the antine visitors and exents to been more, ou can prox up the left from one of our outdoor public events or consulting locations to the Kingsbridge ones.



This are furth about a section of Novel Trans artists of Sine

19 DIEK SF ELIES SIRE



Attend an event, online or in-person

Honoghout September, Outsides and Newstern, with the honing is two inhale and subject to general selects are an emerciale with affects and leave a still ment about.

Tabletta Smoot, read partiests, and more. All events an time in a encouraged to MERP the or openion events, but store in will be exclusive. For inhale events, you must MERP and the continue events with follow covid-10 selects produces.

Learn the Botanical Stitches for Your Garden

Bittor on sitting patterns that expressed different plants, the sall for amount at his wasp tay on to del in a feer days, those shelves, and be replaced by values of Martines Lipson Jamest and Andre in Science remarking tree for creating and instructed attributes. The sitting among treeplant by a secretion of plants that creatly before on the contings of the scalings among threatening than and



Learn more about Tibbetts Brook and Green Roofs!

interactive map, a collection of solecul, and other resources to help you have more about the environmental unions belief this project and the history of Yabatha Brook in the Brook



Working Tittletta by Mart Inneem
Actor Motton interest seeks on or a noticed each filtrough the Titletta in Motorated or the Notice Berne, with impacts from interested tools
Motorated or the Notice filter Berne, with impacts from interested tools



S.

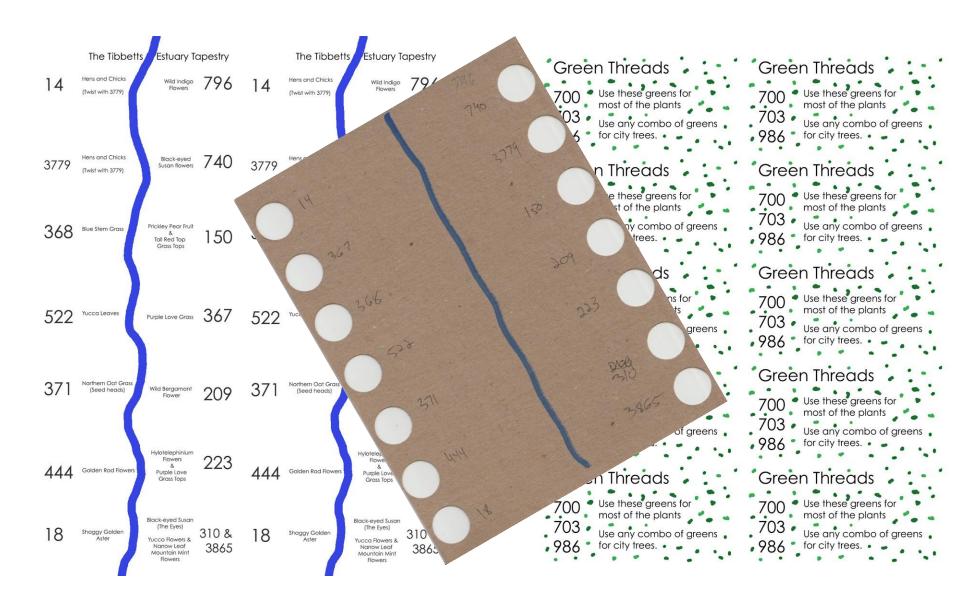
NOW THIS BY CHOIC ARREST TRIBUTES BROME.



THE KIT



EL EQUIPO



Parts of the thread kit before being assembled

Sample tile embroidered by a volunteer.









The Tapestry on exhibit in the Van Cortlandt House Museum, 2022













Volunteer stitcher talking about the process and personal experience of working on the project during the pandemic, Riverdale Senior Center, 2023







Volunteer stitchers pointing out their squares, Van Cortlandt House Museum, 202

Creative Community Engagement Strategies for Green Infrastructure Projects

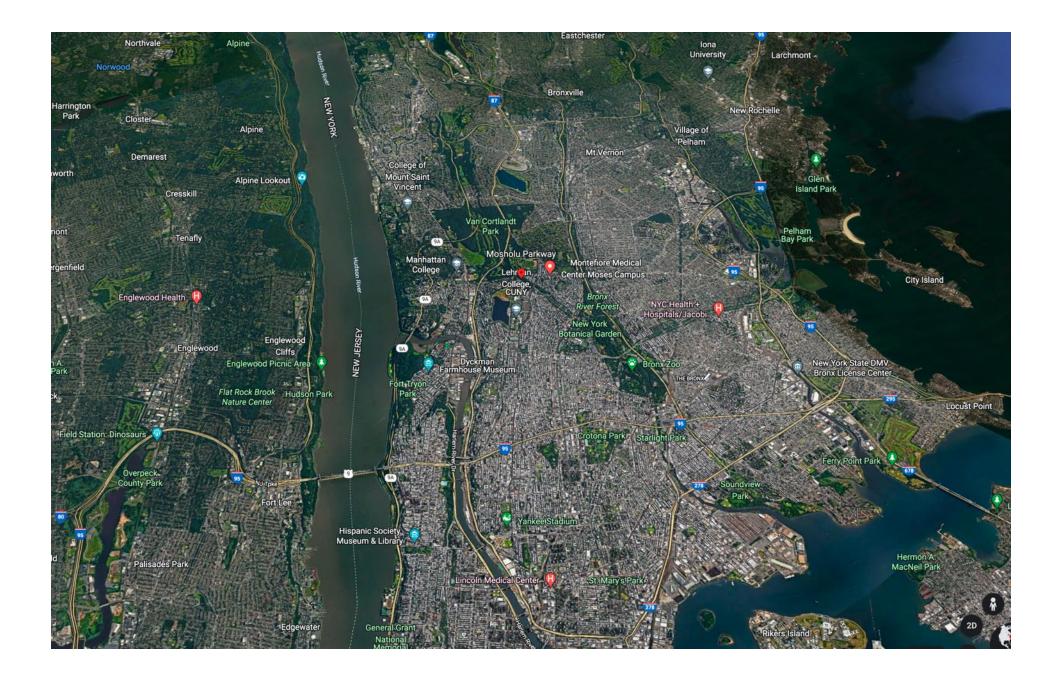
Project 2: The Mosholu Teaching Forest

A community-building adventure centered on the restoration and reforestation of land in Norwood, a neighborhood in North Central Bronx.

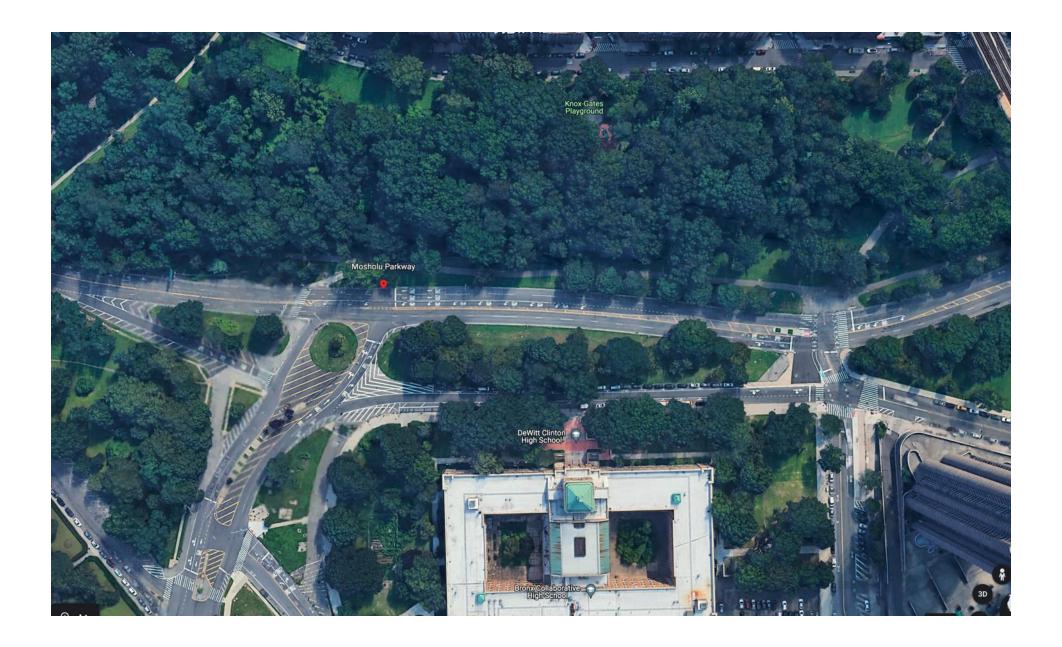
- Urban heat island effect
- Storm water retention
- Tree canopy cover
- Green career pathways for Bronx students
- Vine and invasive management
- Trail building
- Native flora

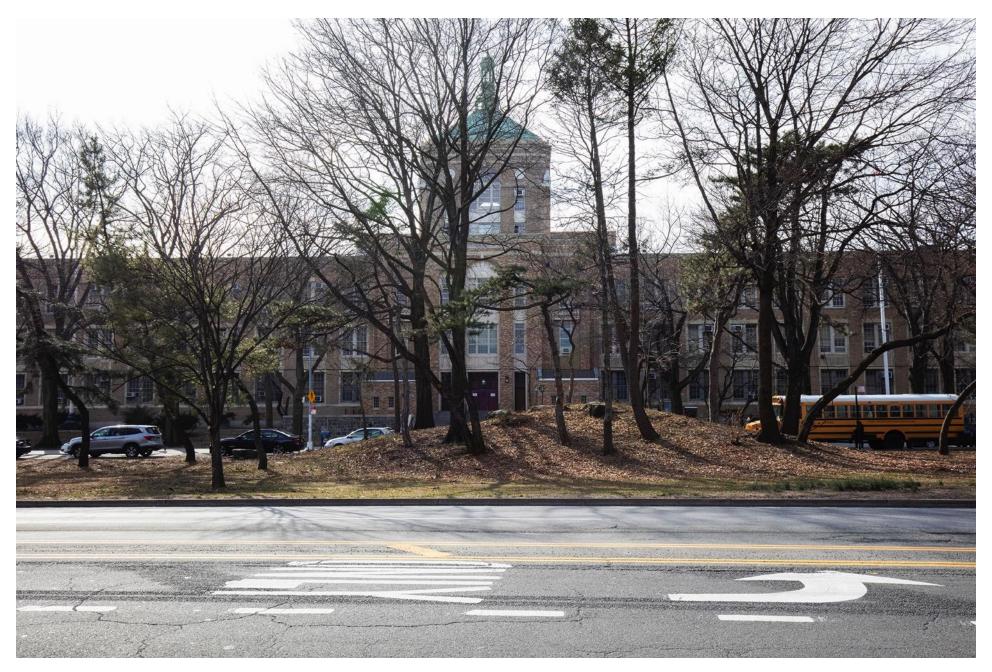
Q: What do you do with a semi-abandoned 20-acre forest in the middle of a neighborhood, surrounded by schools and public transit, in the Bronx?

A: Restore, clean, replant, and reconnect the forest to the community to create a space for learning and establish pathways for students to pursue green careers.









View from Mosholu Forest side of the Parkway

High Schools Nearby:

Dewitt Clinton
Bronx Collaborative High School
Bronx Science
Academy of Mt St. Ursula
HS of American Studies

University: Lehman College

Grade and Middle Schools

P.S. 051

P.S. 095

P.S. 008

P.S. 20

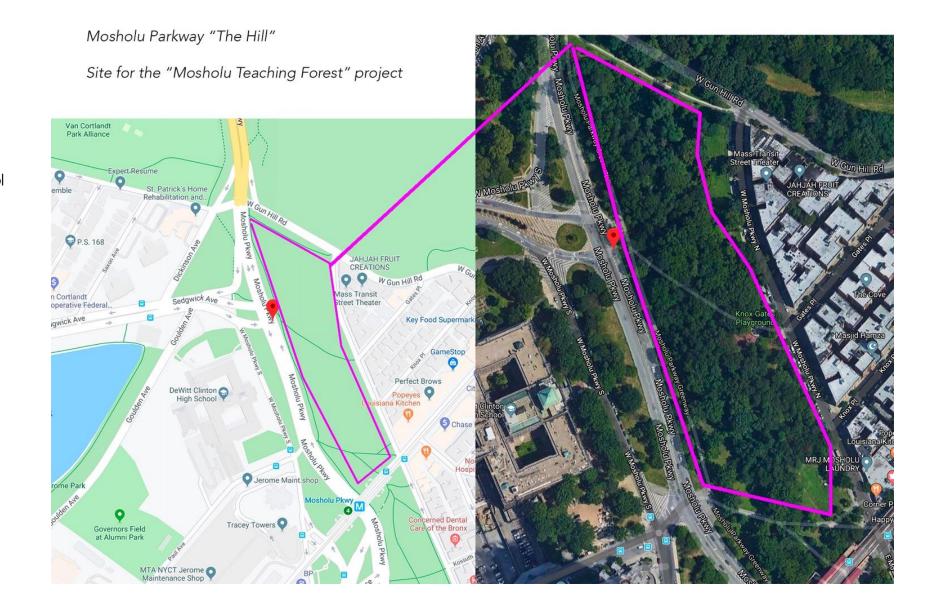
P.S. 280

P.S. 056

P.S. 094

Pre-K Sites Nearby: 6

Head Start Programs Nearby: 3





Mosholu Vineland, March 2022 (Cleared and remediated in 2023)



Mosholu Vineland, March 2022 (Cleared and remediated in 2023)



Mosholu Vineland, March 2022 (Cleared and remediated in 2023)

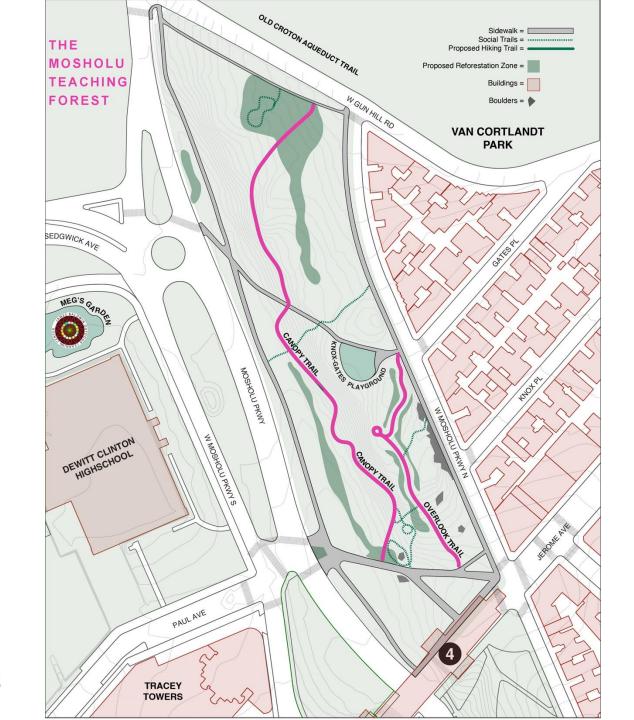


Mosholu Dump Site, March 2022 (Cleared in 2023)

White oak lost to vines (one of the One-Million Trees).

When you plant trees but don't support community stewardship the trees don't always make it.





STEWARDSHIP IS MAKING A DIFFERENCE!





Wave Hill WERMS



Fordham Environmental Studies Students





Adam Thornbrough, NYC Parks Arborist, invasive plant removal



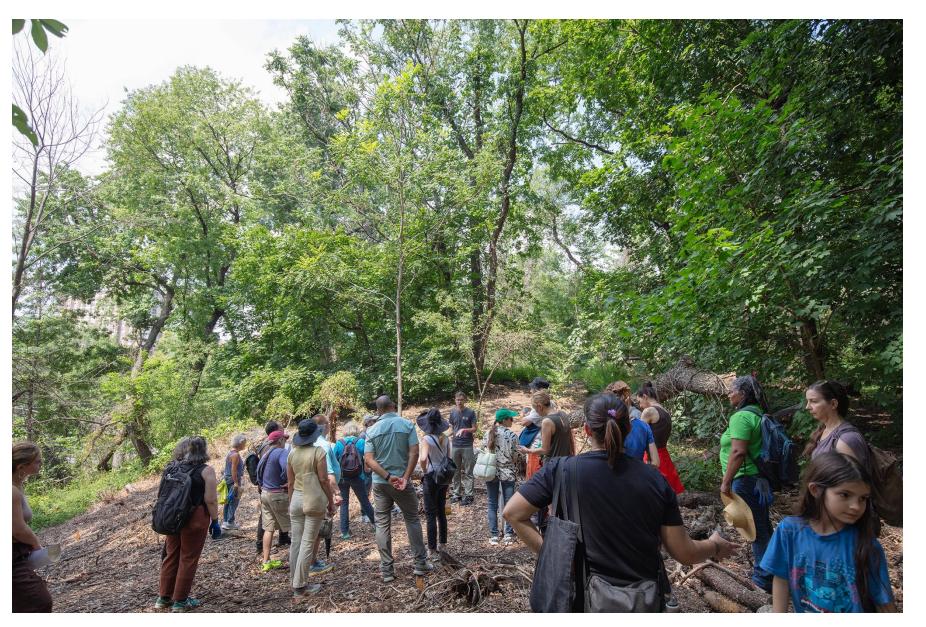
A Plant Walk, 2022





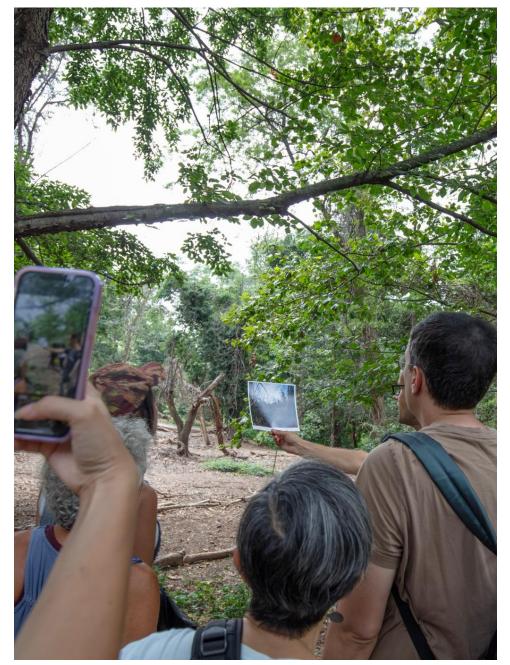
Drawing the future trail.

Creative Time Walk Artist Walk, August 2023



https://creativetime.org/events/parallel-walks/

Creative Time Walk Artist Walk, August 2023





The First Community Walk and Talk, September 2023







Visiting the dead zone (future planting site)

The First Community Walk and Talk, September 2023



The First Community Walk and Talk, September 2023





Planting hickory nuts

The First Community Walk and Talk - September 2023





Using photographs to show progress, seasons, and histories

A few educational highlights...



Largest sassafras tree in the Bronx, one of the oldest in NYC



Visiting the largest, oldest tree in the forest (pin oak)



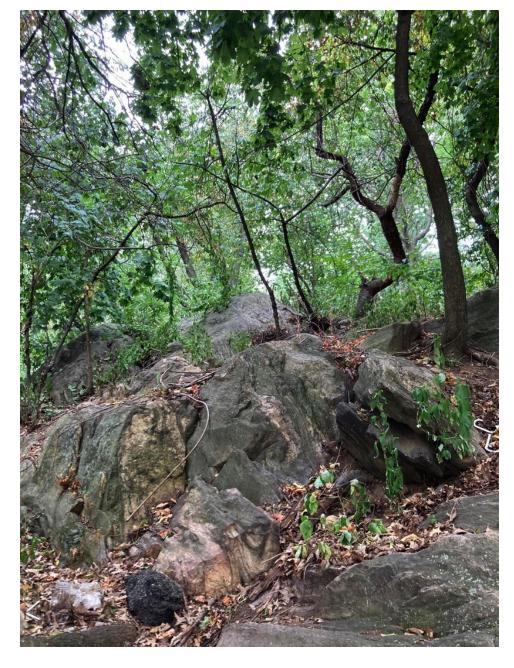


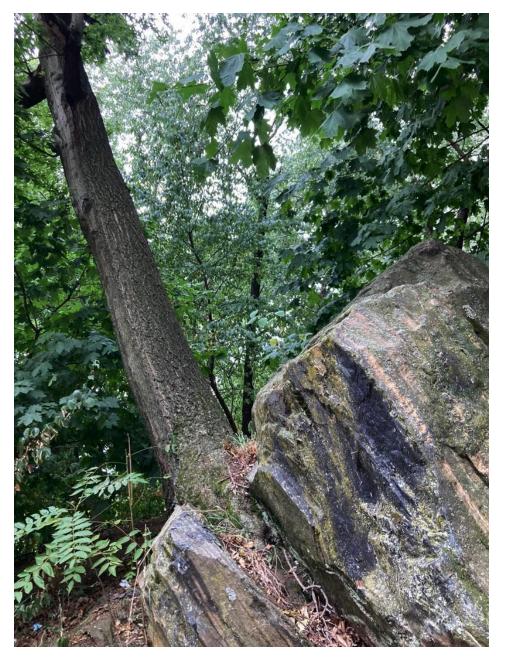




New growth!

Wildflowers and native plants.





Amazing examples of glacial carved bedrock

Mushrooms and Slime Molds





Community mushroom walks now happen in the Mosholu Teaching



Using the remaining (and endless) vine problems as community-building stewardship opportunities.

Creative Community Engagement Strategies for Green Infrastructure Projects

Project 3: New York City Street Tree Tarot

A tactile tool for teaching about street trees, stewardship, and storytelling.

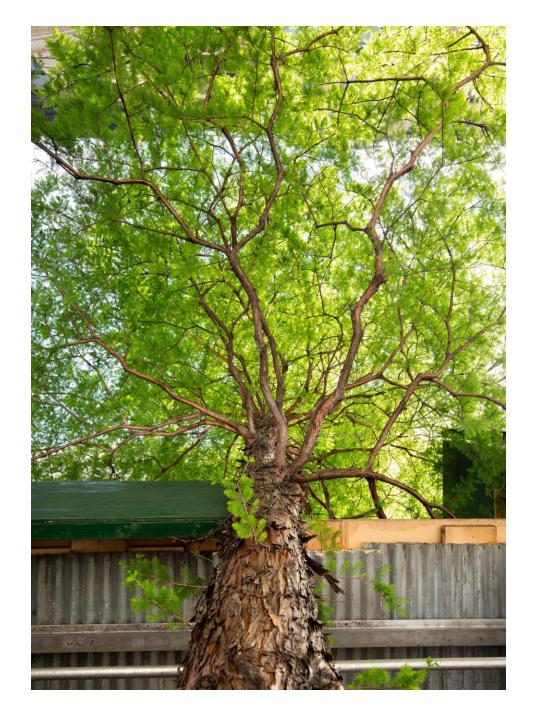
- Urban heat island effect
- Storm water retention
- Tree canopy cover
- Street trees
- Community stewardship







New York City Street Tree Tarot, 78-card tarot deck & book of texts, 2023

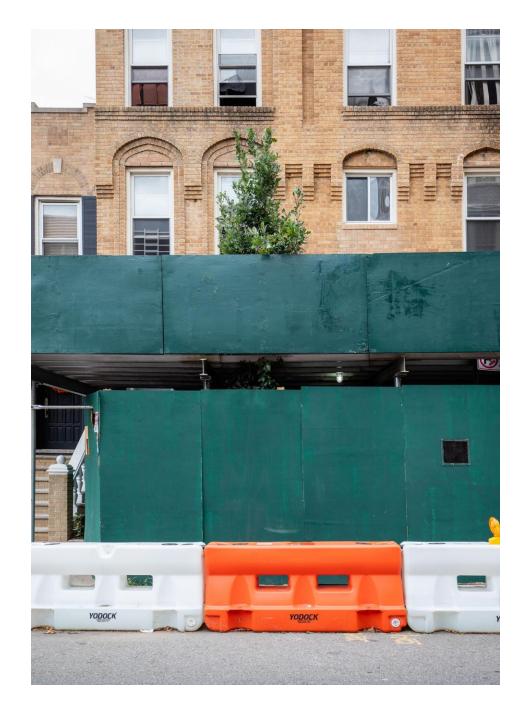


The Dawn Redwood Card features a view up through the fractal-like boughs of a magnificent tree growing out of the most unlikely four-square-feet on East 16th Street near Union Square Park. The needles of this conifer are soft, almost fur-like, and the tree is deciduous, meaning it loses its leaves in the winter. The needles turn the most vivid yellow, then a rusty orange, before dropping. The bark on the tree has a shagginess that invites someone to pet it like a large animal. The tree is native to China and has proven to be a surprisingly successful street tree.

This specific tree has managed to survive years of scaffolding and has grown wide buttress roots at the base. This tree is doing the impossible with grace and beauty. It is thriving while the world around it is being reconstructed. The thousands of tiny needles take advantage of the ambient light from the sky and of the few moment each day when the sun shines directly down between the buildings.

Sometimes we thrive out of place, often so much that it surprises everyone around us. The view up into the canopy of the tree symbolizes the mind, intellect, and persistent growth. The complexity of this growth pattern has something to do with its success in this location. One important element to this card is the care evidenced at the base of the tree. There are a homemade tree guard and flowers. Someone cares for this tree and they no doubt watch over it from one of the adjacent apartment windows. Recognizing these sometimes-invisible relationships is an important part to understanding one's success.

Potential
Uprightness
Achievement



The White Oak Tower Card is a tragic scene. All the windows on the top floor of the yellow brick apartment building are open because of a recent fire. The curtains are billowing in the breeze, the entire building has been vacated. No one died, but forty families were displaced. Green scaffolding, green construction walls, and the signature white and orange plastic barriers have been set up to deal with the forthcoming construction. They have been erected around a young fastigiate white oak tree. Only the top five feet of the tree now have access to sunlight, and it is unlikely any rain will reach its roots.

This card symbolizes a breakdown in the material world, likely triggered by something outside of our control. However, it is important to not center our focus on the cause but on your connections to whatever was damaged. Finding any shred of a silver lining in the situation may be necessary. The process of rebuilding whatever it is that fell apart may take years. Its impact may never leave our body. This young tree will likely lose all the branches below its crown. It will grow differently in the future and only the neighbors will know why. Like the tree, getting through this difficult situation will require outside intervention. Someone will have to ensure this tree is watered over the next few years because no rain will reach its roots until the scaffolding comes down. Seeking help can be very difficult, especially for those who are particularly independent.

Destruction Repair



The Ailanthus in Love Card shows two trees joined, or kissing, through a chain link fence. How exactly this union happened is hard to say. The technical term for this phenomenon is inosculation and it is not such an uncommon occurrence. Regardless, since finding each other, these two have grown through and around what once kept them apart.

This card is about love and relationships. The ailanthus tree is out of place in North America, but it has found a way to thrive. It could be that the parties in a relationship have been bound by this shared experience of displacement. The fence separating these two trees represents some form of institutional blockade, but one that was no match for the relationship. The vines adorning the trees are a source of color and celebration. In the distance is a large highway sign, perhaps symbolizing the role that travel or relocation plays in this connection.

Love Obstacles Bonds

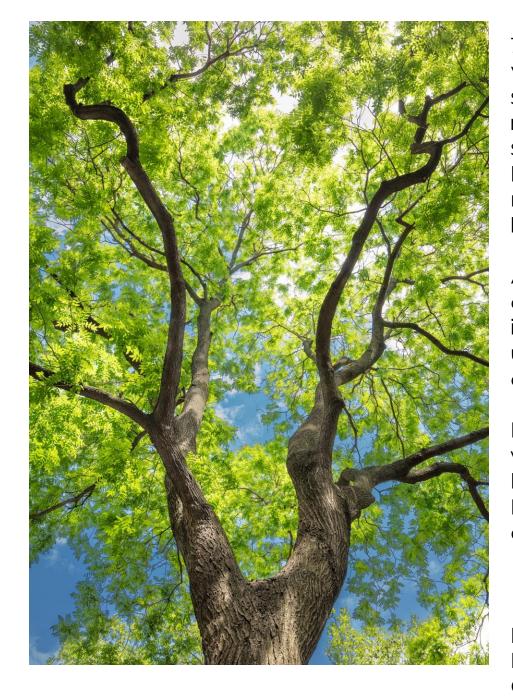


The Foolish Tree Card is a reminder to lighten up. Trees are very serious business, but not always. They are often the stage for seasonal joy and can be the focal point of reverie. It is critical to sustain and nurture the uplifting and positive experiences that trees and forests provide to humans. This young tree is wearing a green witch's nose. It had two googly eyes, but one fell off. It is smiling and adorned with a dangling plastic jewel. It is ready for the party.

Ecological calamities are now part of the news cycle and landscapes, particularly forests, are exhibiting signs of climate stress. It is hard to watch. The silver car behind this tree takes up most of the image, but it is such a familiar sight that we hardly notice it as anything more than a backdrop. However, it is creating a blockade between us and our home. How do we face such an omnipresent industry positioned as the backbone of civilization? Perhaps in disguise.

The card also reads as a collection of childhood memories; dressing up for Halloween, driving in the backseat of the car, our homes being the center of the world. How can we bring some of that lightheartedness into our lives now?

Levity
Disguise
Childhood



The Magnificent Pagoda Tree Card depicts the space and volume found within a single, old Japanese pagoda tree. The scale is hard to comprehend in a small photograph. It really requires a few minutes of patient firsthand observation of this six-story marvel. As air moves into this space it is cooled and calmed before reaching the sidewalk. As we look up at this tree, we notice that it mirrors the branching bronchi of our lungs, the tiny leaflets are dispersed like thousands of alveoli.

Another name for this tree is "the scholar tree" as it was commonly found planted around Japanese Buddhist temples. It is also a powerful ancient medicine with all parts of the plants utilized in different ways to treat a range of ailments. The card combines strength, longevity, and coolness.

Focus on the breath and finding your reflection in the natural world. This card signifies a flow of positive energy that moves between the external and internal, the body and the mind. Pursing goals with balance, equanimity, and positivity, leads to amazing things.

Purity Beauty Grandeur



The Timeless Death Card features a long dead Bradford pear tree surrounded by a mess of crab grass. It takes a few years for a dead street tree to lose its bark in such a way. This might represent a loss that happened over a protracted period of time. At the top of the tree there is the faint trace of ribbon, a likely residue of flags draped between the jewelry store and the tree, perhaps celebrating a grand opening. This small clue is a reminder that there were moments of celebration in the past and these are now important memories to celebrate.

The façade of the newly constructed white building next door features the face of a clock without hands. It is a powerful symbol reminding us that time is simply a construct of our waking minds. The new glass building in the distance seems to present a confrontation between historic traditions and the anonymous future.

The tonic to this anxious image is found in the small potted plant placed on a small white tray on the sidewalk in front of the window. It seems abandoned but is surely being watched over by whoever is growing flowers and herbs on the balcony. Those who were connected to whomever or whatever was lost are still here, continue to care, and might also need attention.

Forgotten Continuation Change

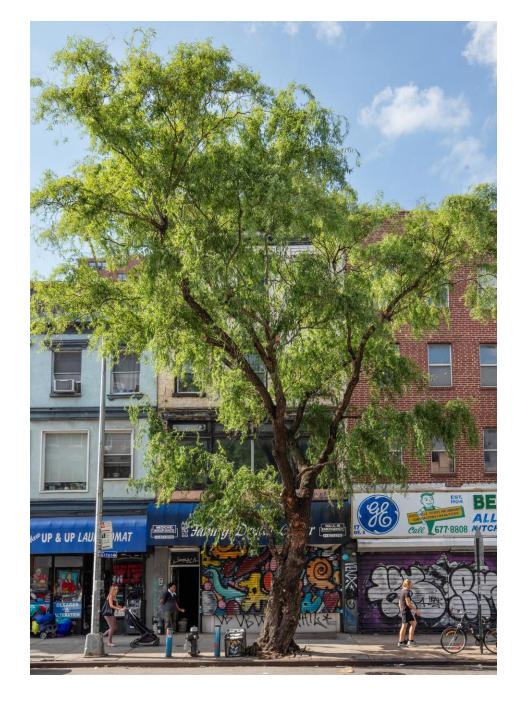


The Green Flame Card features a lone columnar elm tree in the South Bronx surrounded by an inhospitable environment of scorching urban surfaces. The razor wire on top of the metal fence adds an aggressive level of protection to the scene. This card is a warning about the loneliness that comes when humans are cut off from the natural world. It might be here in the South Bronx, it could easily be in a new glass tower complex in Hudson Yards, but a lack of other beings can take a psychic toll.

Jet streams and crisscrossed wires move across the horizon as a lone figure walks in the shade. A trickle of water leaking from a fire hydrant flows along the old bluestone curb. Perhaps some of this water is reaching this tree, but most of this precious resource is being wasted. At the base of the tree, easily overlooked, there is a shallow guard of red bricks, placed by someone in the past as a small sign of care.

The scene is one of emotional juxtapositions. The tree is a sign of hope, survival, resistance, and resilience, all wonderful things. But we can be hopeful, and survive hardship, resist our surroundings, be praised for our resilience, and still be lonely.

Isolation Hopefulness Possibility

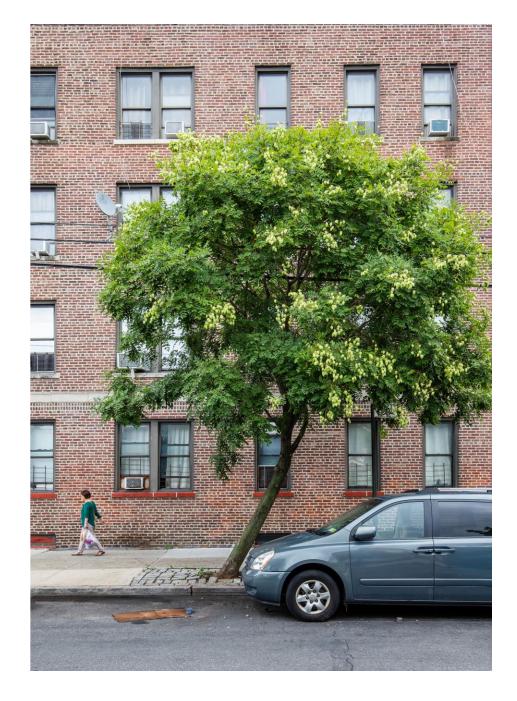


The East Village Willow is a powerful being. It is also very rare; it might be the only street tree willow in Manhattan and one of a handful in all of New York City. As soft and gentle as the tree seems, despite its gifts as a healer (willow bark is the original aspirin), it can survive in this most impossible location. This tree is something of a badass, but it can also work a bandage if necessary. The card symbolizes perseverance and is a celebration of being out-of-place.

The tree proudly bears its scars, the result of continual impacts with trucks. It is certainly the product of another time. Its origin story is likely lost. Maybe it is a volunteer tree growing in the space where another tree once grew. Maybe it was planted decades ago by a community gardener. It certainly breaks all the rules in contemporary urban forestry principals, which, unfortunately, do not favor planting fast-growing, water-loving trees like willows. The tree is also very responsive to air, dancing in the slightest breeze, and to finding underground sources of water.

Behind the tree there is a laundromat, a dentist's office, and a kitchen appliance shop, each a manifestation of care in some form. Our clothes, our teeth, and the preparation of food are central to our daily lives. This card is a reminder to center what is important and necessary. However, rock on, and look for the hidden door in the back of the laundromat that leads to a bar in the secret subbasement. The password is "salicin."

Resilience Contradictions Care



The Leaning Golden Rain Tree card features a perfect example of this beautiful tree draped with its signature paper lanterns. And it is perfect because it has more character than others. This tree was likely backed into by a car not long after it was planted. And then it was left to grow. And it did. The adjacent minivan is parked in just the right spot to create the illusion of impact, it seems as though the tree is in the process of falling.

There is something endearing about a crooked tree. Almost every tree in nature bares the sign of some past trauma or blight. Many renderings of trees in landscape paintings, especially in historic scrolls from China and Japan, where this tree is native, depict weathered trees in the most curious forms and inhospitable places. This card is about growing into one's perfection despite (or because of) a disruptive event in one's youth. Few people make it to adulthood without experiencing some life-altering trauma or loss. Now, years later, we can look back at that situation and understand how it changed our path. The tree in this card is thriving. It might serve as a lesson or as a mirror, depending how the trauma has been felt.

Improvisation Balance Grace



The Saddest Tree in New York Card is a reflection on the surrounding environment not on the tree. This young Kentucky coffee tree appears to have eked out an existence for a few years before succumbing to stresses on this block of West 28th Street in Chelsea. Planted in a small bed along a south-facing wall, this tree was scorched by the summer sun to the point of breaking. The anonymous government building stretches from 9th to 10th Avenue and it is a foreboding place, even for a human.

Our built environments can hurt us. Some places are not meant for trees or humans. When something or someone is failing, in health or life, we often assume the fault resides with the tree or person. When this tree dies another will be planted, then another, then another. There are versions of this scenario that play out but with human actors instead of trees. This block has a design problem that needs to be addressed before it is made suitable for life. If trees are truly important for this location, they need to be irrigated, stewarded, and the surrounding pavement made more suitable to life.

This card is a warning to assess our relationships with our surrounding environments at work, home, in the neighborhood, and within relationships. Trees are sessile: they cannot get up and relocate, but humans can, most of the time. And sometimes that is the best thing to do.

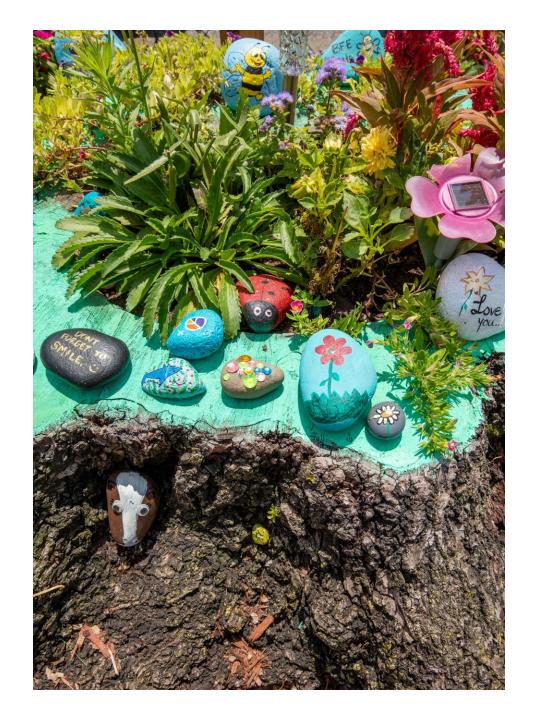
Condemned Abandonment



The Mossy Elm Card is a powerful reminder that one tree is an entire ecosystem. This old elm tree in the West Village has defied the odds, growing on a narrow street, out of a space no larger than the base of its trunk, and while facing the same blights that felled so many majestic elm trees. We often forget, or simply never learn, that every single tree is also so many other living organisms. Similarly, we are rarely taught about how our human bodies are also their own ecosystems filled with and affected by so many unique organisms.

The mossy side of the tree does, in fact, face north, just like in folk tales about wayfinding in the forest. The trunk stays green all year long. A cold wet rain in February will revive this vibrant bit of life months before the first leaves return. The card is a reminder that we are doing something even when we think we are doing nothing. We might even be helping others find the way. It takes time to stand out but eventually we establish ourselves, and when we do we bring a bit of life and color to the world at the hardest times.

Pathways Direction Softening



The World Card features a vibrant and artful pocket garden planted in the rotten stump of an old street tree. Based on the size of the stump, the tree must have lived for over 100 years. Surely its loss was felt by the neighborhood. In its place, until a new tree is planted, there is a delightful garden, full of life, solar powered flower lights, and painted stones. The horse with googly eyes is hard to miss and the eyes of the ladybug rock follow you as you walk by.

All life, human and non-human alike, lives, loves, thrives, and parties, in the remains of all that once lived. Every organic nutrient in the soil was once living a life. Trees spent millions of years living and dying, terraforming, and designing the atmosphere to be perfect. We humans came from other humans and our present existence required the passing of others. Celebrating can be a form of honoring everyone and everything that came before us. But we must do so with the awareness that we are on our way to being ancestors ourselves and leaving the world safe for future life is necessary.

Regrowth Loss Expression



The Scrap Guard Card features an assemblage of objects gathered up from the curb and used to make a messy, but functional, garden guard in an empty tree bed. It has a certain artfulness to it. A few contemporary artists come to mind. The black handle might have been an umbrella, or maybe a child's fishing rod. There seem to be some shelving components, maybe an old granny-cart broken down for parts. Sometimes it is a relief to encounter something that is not perfect.

It is time to be resourceful. Everything we need is already around us. All we need to do is make the connections and we will have constructed something that is unique and special. Once that has been accomplished, we can cultivate whatever we want or just sit back and see what grows within the created space. Some might see this structure as a total mess, and it is. Yet it is also the perfect symbol for many functioning systems and relationships that are nothing more than a confused collection of temporary solutions and personal connections.

Thrifty
Resourceful
Creative

Neighborhood-as-Nursery

What if all the trees we needed in urban spaces were grown, from seed, in the spaces or landscapes, or the very tree beds, where they would otherwise be planted as larger

- trees?
 Instead of money spent elsewhere, to companies with no community ties, someone in each neighborhood would be watching over the trees, allowing each tree to learn and adapt to the spaces where they will grow into maturity.
- Conditions for the young trees would have to be improved and those conditions would be shared by the humans in the area.
- Fewer trees would die in the shocking process of being bagged, transported, placed in a new micro-climate, and expected to survive.
 A tree is not a streetlamp.
- The bond between urban residents and urban trees would grow, inequities would be reduced, and we would have fewer dead trees.
- Trees are, essentially, free. Support stewardship.



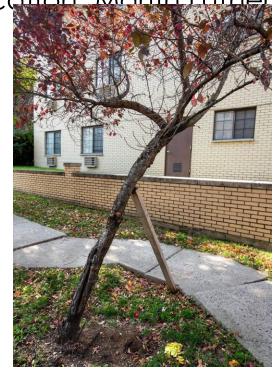
"Remember when we grew these trees from seed and watched them grow tall?"

Want a Street Tree Tarot reading?

Join the off-site event: The Multi-Sensory Urban Forest: Many Ways of Knowing, Sensing, and Caring Organized by USDA Forest Service and The Nature of Cities

Today from 1:30 - 3:00pm

Location: Martin Luther King Ir Memorial Library, 901 G St NW Room 401A







DACT DDECENIT ELITIDE



Thank you

Matthew López-Jensen | Artist

Educator: The New School & Fordham University

mjensen54321@yahoo.com
Instagram @mattlopezjensen
www.Jensen-Projects.com





















DOWNLOAD PRESENTATION HERE

2nd World Forum on Urban Forests 2023









Effects of nature immersion therapy: Results from a pilot study

Dr. Diana Marcela Paredes Céspedes

Environmental and Occupational Health Research Group

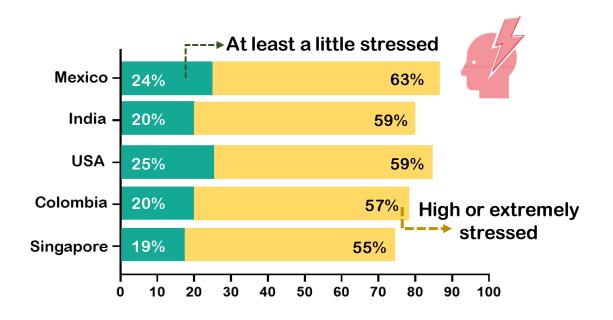
Instituto Nacional de Salud

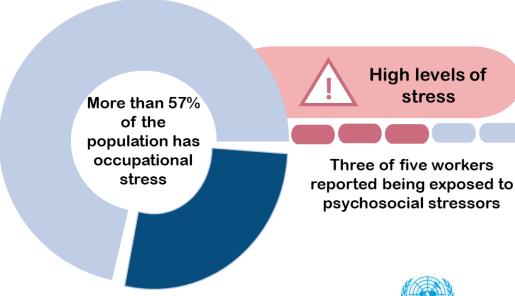




INTRODUCTION











According to the Ministry of Health, depression is the second cause of health problems in Colombia.



21 million Colombians in the last year reported working more than 40 hours per week. 3 GOOD HEALTH AND WELL-BEING





3.4 By 2030, promote mental health and well-being.

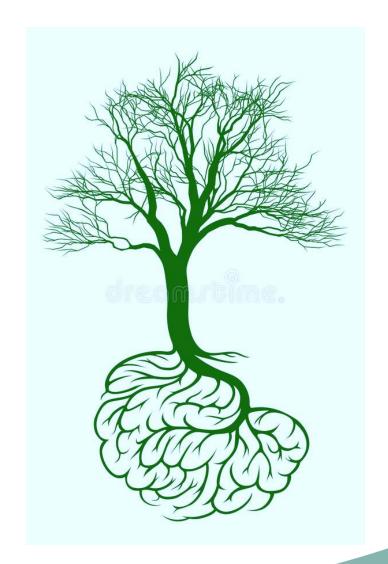






AIM

Evaluate the effects of immersion therapy in nature "Vitamin N" for the reduction of stress levels compared to the regular intervention carried out by epidemiological surveillance programs in conventional psychosocial risk in Colombia, 2022 - 2024.

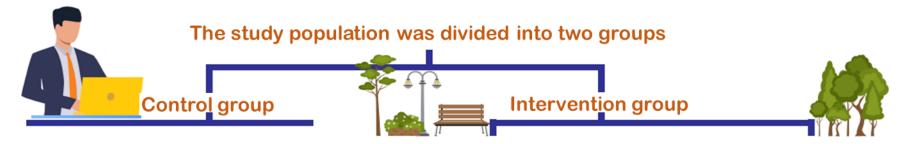






Pilot study





Phase 1



- -Sociodemographic conditions
- -Perceived Stress Scale 14
- -The State-Trait Anxiety Inventory (STAI)
- -Pittsburgh Sleep Quality Index

Saliva samples - Cortisol quantification

Phase 2

1st week

2nd week 3rd week 4th week





Phase 3

- -Perceived Stress Scale 14
- -The State-Trait Anxiety Inventory (STAI)
- -Pittsburgh Sleep Quality Index

Saliva samples - Cortisol quantification





Salud

RESULTS

Pilot study



Table 1. Sociodemographic characteristics of the study population

Control¹ (n=8)	Parks¹ (n=9)	Forrest ¹ (n=8)	p ²
41 (37, 50)	39 (32, 44)	36 (30, 58)	0.9
			>0.9
3 (38%)	4 (44%)	4 (50%)	
5 (62%)	5 (56%)	4 (50%)	
			0.3
3 (38%)	4 (44%)	1 (12%)	
1 (12%)	1 (11%)	0 (0%)	
3 (38%)	2 (22%)	6 (75%)	
1 (12%)	2 (22%)	0 (0%)	
0 (0%)	0 (0%)	1 (12%)	
, ,	, ,	. ,	0.3
1 (17%)	0 (0%)	1 (12%)	
4 (67%)	1 (14%)	2 (25%)	
1 (17%)	1 (14%)	2 (25%)	
0 (0%)	1 (14%)	2 (25%)	
0 (0%)	4 (57%)	1 (12%)	
` ,	, ,		0.06
2 (29%)	4 (44%)	3 (38%)	
4 (57%)	0 (0%)	4 (50%)	
1 (14%)	5 (56%)	1 (12%)	
	(n=8) 41 (37, 50) 3 (38%) 5 (62%) 3 (38%) 1 (12%) 3 (38%) 1 (12%) 0 (0%) 1 (17%) 4 (67%) 1 (17%) 0 (0%) 0 (0%) 2 (29%) 4 (57%)	(n=8) (n=9) 41 (37, 50) 39 (32, 44) 3 (38%) 4 (44%) 5 (62%) 5 (56%) 3 (38%) 4 (44%) 1 (12%) 1 (11%) 3 (38%) 2 (22%) 1 (12%) 2 (22%) 0 (0%) 0 (0%) 1 (17%) 0 (0%) 4 (67%) 1 (14%) 1 (17%) 1 (14%) 0 (0%) 1 (14%) 0 (0%) 4 (57%) 2 (29%) 4 (44%) 4 (57%) 0 (0%)	(n=8) (n=9) (n=8) 41 (37, 50) 39 (32, 44) 36 (30, 58) 3 (38%) 4 (44%) 4 (50%) 5 (62%) 5 (56%) 4 (50%) 3 (38%) 4 (44%) 1 (12%) 1 (12%) 1 (11%) 0 (0%) 3 (38%) 2 (22%) 6 (75%) 1 (12%) 2 (22%) 0 (0%) 0 (0%) 0 (0%) 1 (12%) 4 (67%) 1 (14%) 2 (25%) 0 (0%) 1 (14%) 2 (25%) 0 (0%) 1 (14%) 2 (25%) 0 (0%) 4 (57%) 1 (12%)

¹ Median (IQR); n (%)



² Kruskal-Wallis rank sum test; Fisher's exact test





RESULTS

Pilot study

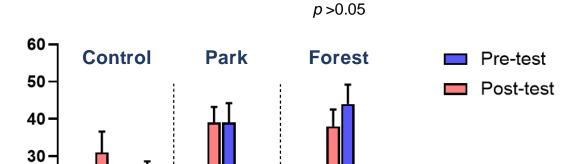
20-

10-

Table 2. Yoshitake and Pittsburgh scales scores

Group	Scale	Pre	Post	Delta	p *
Forest	Yoshitake-Physic	1.75	1.50	0.25	0.26
	Yoshitake-General	3.00	2.13	0.88	0.07
	Yoshitake-Mental	1.75	1.38	0.38	0.14
	Pittsburgh	65.00	56.00	9.00	0.17
Parks	Yoshitake- Physic	1.22	0.89	0.33	0.04
	Yoshitake-General	2.00	1.89	0.11	0.42
	Yoshitake-Mental	2.00	1.89	0.11	0.41
	Pittsburgh	67.00	58.00	9.00	0.05
Control	Yoshitake- Physic	2.38	1.25	1.13	0.01
	Yoshitake-General	4.63	3.00	1.63	0.03
	Yoshitake-Mental	3.25	3.00	0.25	0.39
	Pittsburgh	68.00	68.00	0.00	0.50

^{*}Paired t-test. Alternative hypothesis: the mean difference is greater than 0.



а

Figure 1. Perceived stress levels by study group

С

a b

С

- a. Almost never
- b. Sometimes
- c. Fairly often

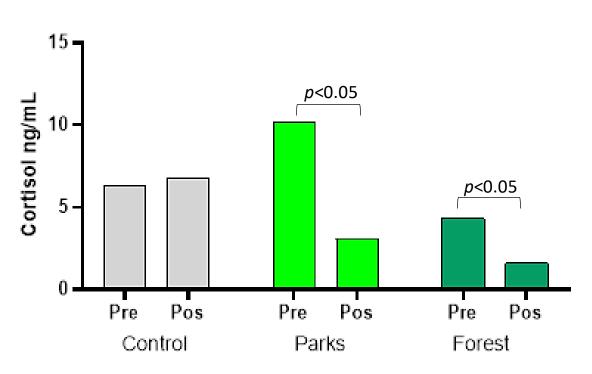






RESULTS

Pilot study





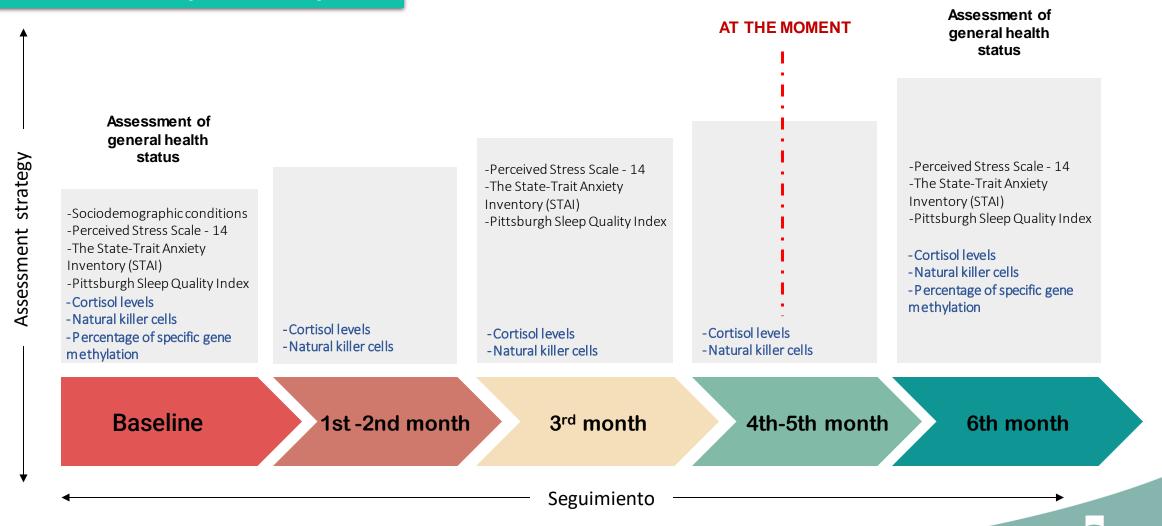




Project – Intervention 2023



Timeline of the experimental phase







Population study









CAR

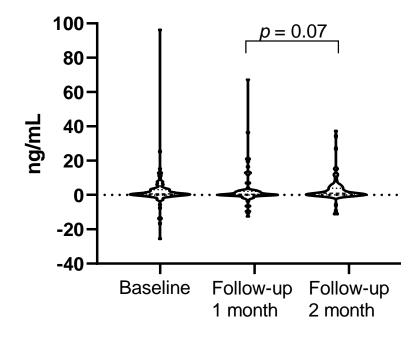


Figure 1. Results of Cortisol Awakening Response. The value of *p* was obtained by Wilcoxon signed rank test.

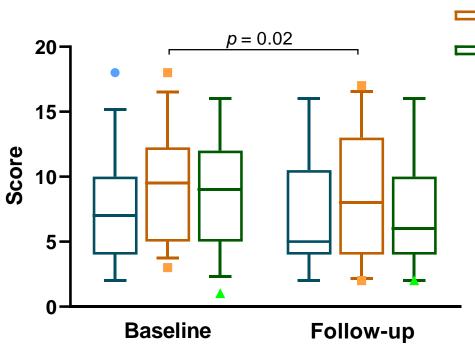








Sleep quality



Control group

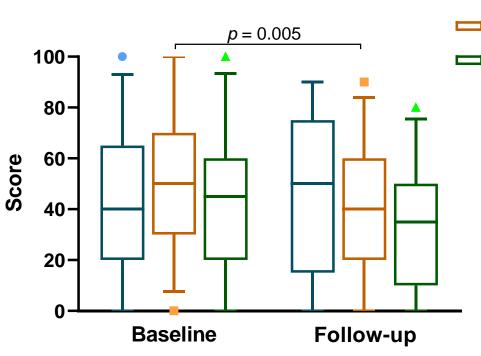
Park/Intervention group

Figure 2. Perception of sleep quality through The Pittsburgh Sleep Quality Index (PSQI). The value of p was obtained by Wilcoxon signed rank test.





Fatigue



Control group

Park/Intervention group

Figure 3. Results of Yoshitake fatigue questionnaire. The value of p was obtained by Wilcoxon signed rank test.







Correlation

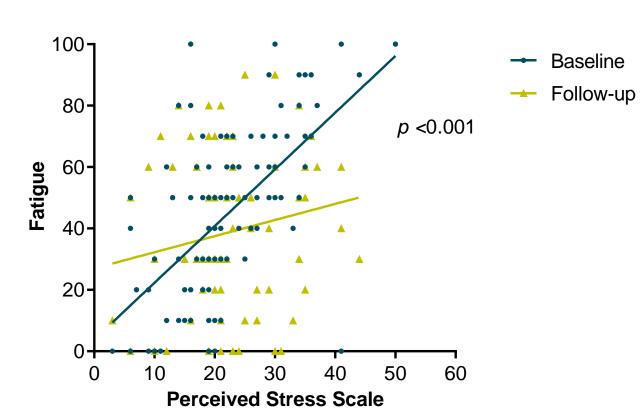


Figure 4. Correlation between Perceived Stress Scale and Fatigue score. The value of *p* was obtained by Spearman correlation test.





Multivariate model

Table 3. Multivariate analysis for the Cortisol Awakening Response

Parameter	β	95% CI	p	R- adjusted
Sex				
Male	Base			
Female	0.93	-5.33, 7.18	0.19	
Intervention group				
Control	Base			0.117
Forest	-3.89	-10.37, 2.59	0.24	0
Park	-5.99	-12.26, 0.28	0.06	
Age	0.16	-0.80, 0.41	0.19	
PSQI - follow up	5.06	1.88 – 8.25	0.002	

^{*}p value was obtained by a multivariate linear regression analysis. 95% CI: 95% confidence interval.





Thank you...



JARDÍN BOTÁNICO **DE BOGOTÁ**









#OrgullosamentelNS





@INSColombia









(O)



Instituto Nacional de Salud de Colombia

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2nd World Forum on Urban Forests 2023







Community Tree Stories:

Exploring Healthy Environments in Three Boston EJ Neighborhoods



Presented by
David Meshoulam & Jerel Ferguson
Speak for the Trees Boston
treeboston.org



Overview of Project

 Supported by Environmental Protection Agency (EPA) EJ grant

 Focused on 3 Environmental Justice (EJ) communities in Boston

- Multiple partners, including 3 community organizations, American Forests, Boston University URBAN, and storytelling NGOs
- Goal: learn from residents about their relationships to trees, explore relationships between people and trees, and share those stories through community walks













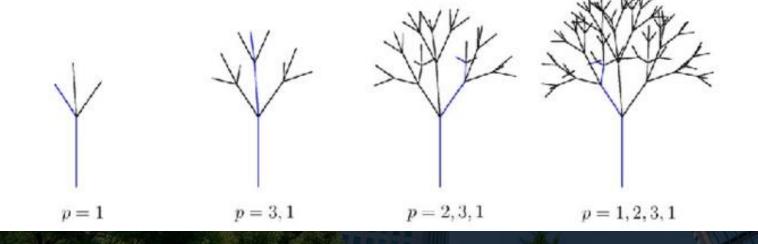


Framework: Trees as Fractals

Fractal (n.)

A curve or geometric figure, each part of which has the same statistical character as the whole.

Similar patterns recur across scales.



Framework: Trees as Fractals

Just like trees, our relationships are fractals. They repeat across scales of relationships:

- with ourselves
- with each other
- with our community
- with the universe

These story walks are patterns that can scale within and across people and neighborhoods.



Phase 1: Prep and Solicitation:

Develop marketing and outreach materials to target and solicit the most aligned community groups in each of the project neighborhoods



EPA Tree Walks Meeting - Codman Square Neighborhood Development Corporation

Join Speak for the Trees and the Codman Square Neighborhood Development Corporation to design our Community Tree Walk through Dorchester, Based on our last meetings: we've shared stockes, learned some science and explored a neighborhood map, now it's time to put it all together.



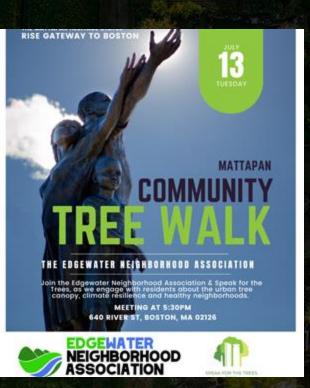




CODMAN SO THEE WALKS

- Create a route in Dorchester, starting from Souther Ave or whichever location is determined at the
- Points of interest marked (min of 5, maximum of 7)
- based off of previous map activity

 Tree Stories, Secure a speaker, who is excited to share share story in person and on carnetal
- Which BU URBAN grad to re-invite (gas leaks, ar-
- pollution, or soil health/7
- Start scheduling dates for the 2 walks (April June)
 Mock walk to predictormine areas of interests (gas leaks, empty tree pits, dood trees)





Phase 2: Engagement

Facilitate in person opportunities to learn about residents' experiences regarding issues of environmental health and quality of life through surveys and the sharing of personal narratives related to trees, quality of life, and history







Phase 3: Creation

Co-develop community tree walks to explore issues that surfaced during stage 2





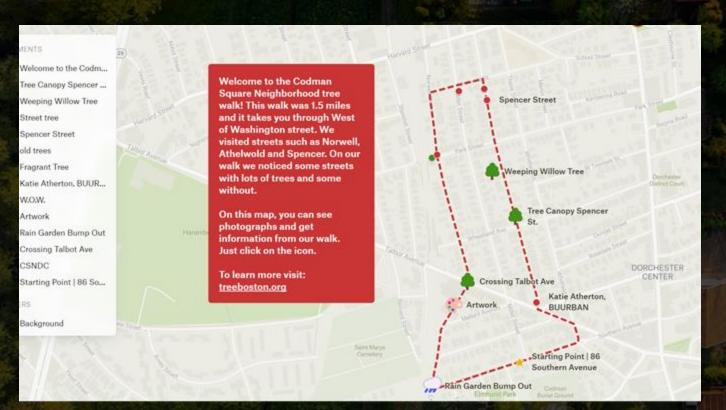
Phase 4: Implementation
Invite members and advertise and carry out
neighborhood tree walks





Phase 5: Sharing

Create an artifact, either digital or print, that provides a retelling of the neighborhood stories and the walk





Reflection

- Partnership coordination takes time give it the time it deserves
- Maintain clear expectations and lines of communication at all times
- Community members have powerful narratives and are eager to share, learn, & engage
- We all have stories, but they need trusted space to emerge: sharing them provides entry point to connect and learn
- Everyone is busy respect others' busy schedules, especially working families
- Provide multiple opportunities and ways to engage, from language accessibility to reflection time
- All communities value their trees for vibrancy and the meaning and sustainability they provide to residents





Thank you

David Meshoulam & Jerel Ferguson Speak for the Trees, Boston



jerel@treeboston.org

















2nd World Forum on Urban Forests 2023







Introducing a

Human-Centered Planting Metric



Presented by

Rachelle Lim
City Forest Credits
In Collaboration with



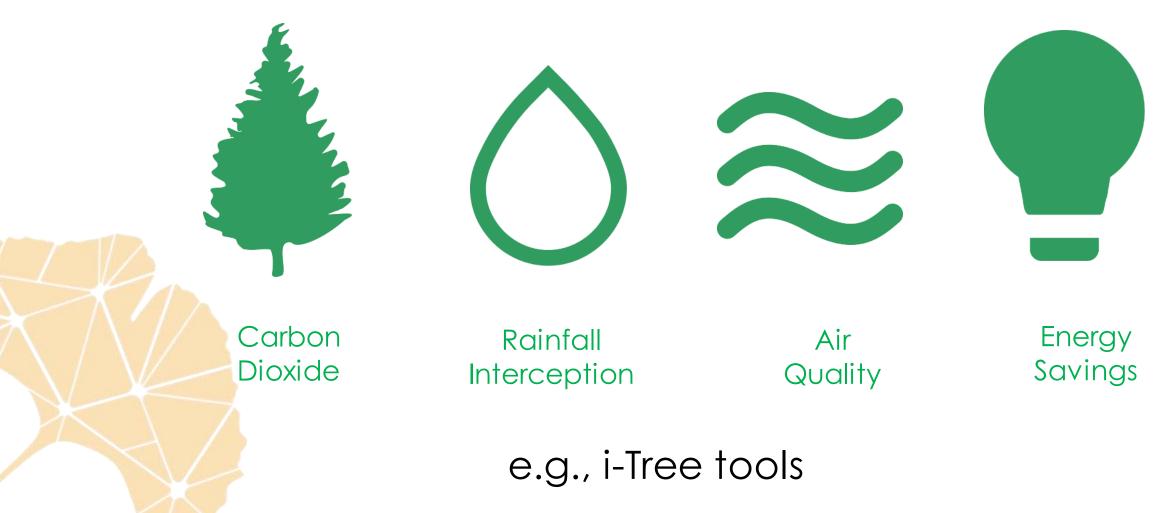








Quantified Ecosystem Co-benefits







Positive Health & Social Impacts of Trees

Reducing Harm

- Improve air quality
- Protect from UV
- Provide thermal comfort
- Reduce crime

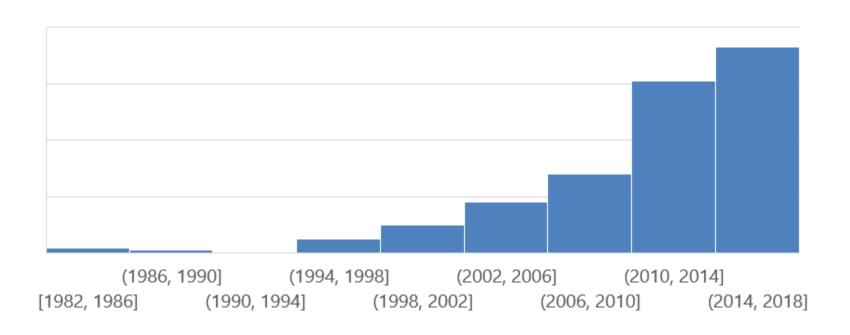
Restoring Capacities

- Restore attention
- Improve mental health
- Reduce physiological stress
- Improve clinical
 outcomes

Building Capacities

- Improve birth outcomes
- Strengthen immune system
- Promote active living
- Improve cardiovascular function
- Strengthen social

Studies on Human Health and Trees







The Human-Centered Metric





Rainfall Interception



People Impacted



Air Quality



Energy Savings



Nature-Based Solutions Program

Tree Planting and Restoration Projects



in data center communities around the world



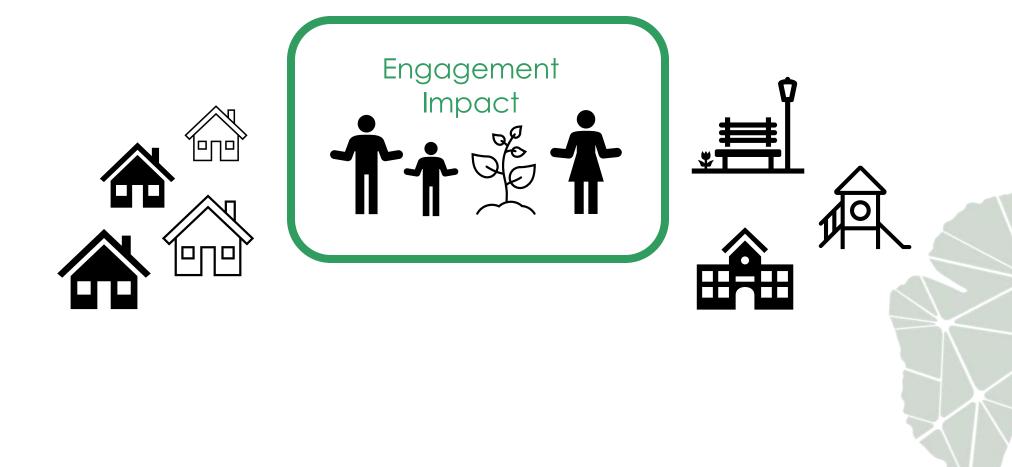






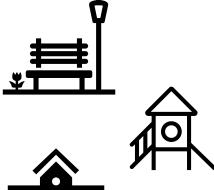
































Human-Centered Metric





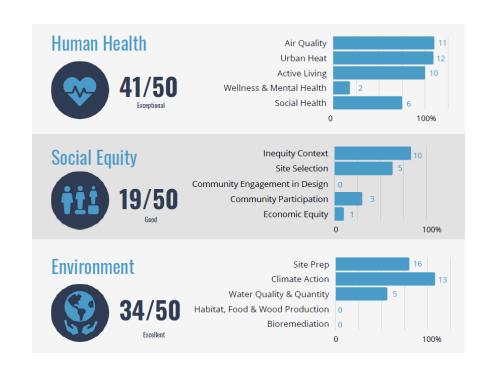




Methodology

What are the impacts?



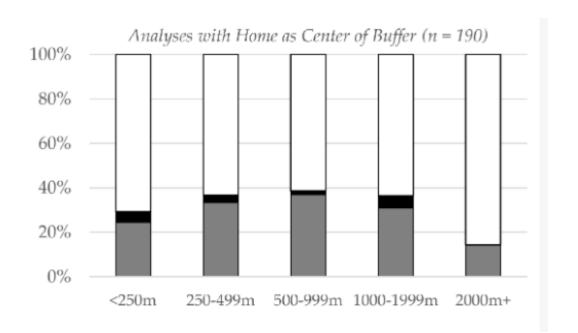




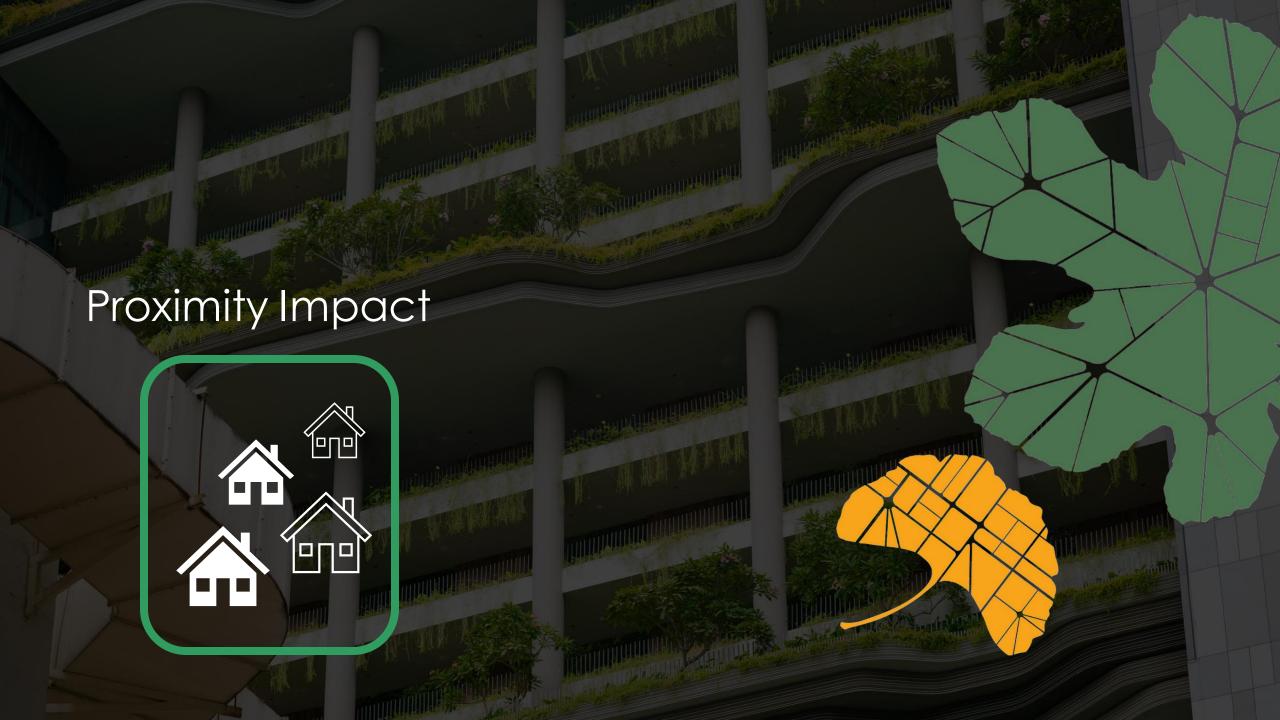


Methodology

At what scale & threshold do they operate?



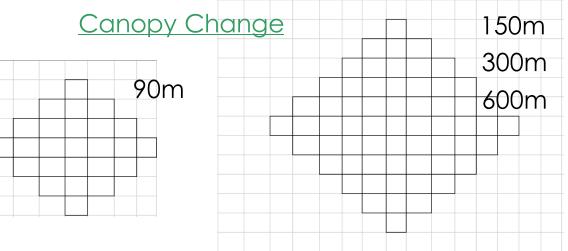






Proximity Impact Methodology





Mortality Rate

Population Data

= Number of People Impacted











400 street trees













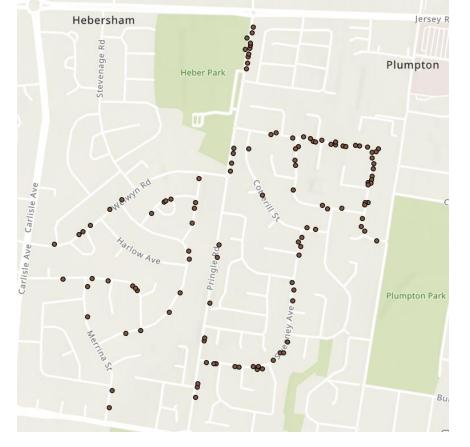
400 street trees

<u>Survival Rate</u>

30%

120 street trees

600sqft of tree canopy













Estimated Future Canopy Change











Estimated Future Canopy Change

Maximum canopy change of at least 0.5% across 30m, 90m, 150m, 300m, or 600m scales





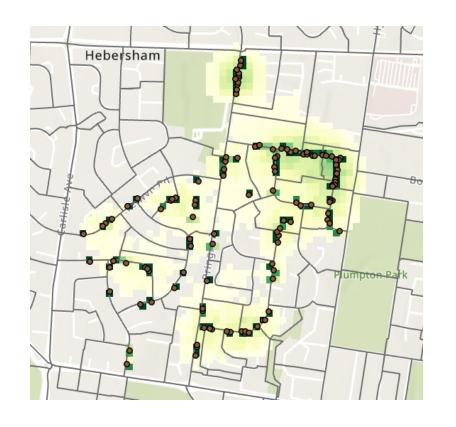






Estimated Future Canopy Change

Areal
interpolation
with census
block data to
understand
number of
people
impacted



Just one of many possible scenarios

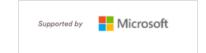
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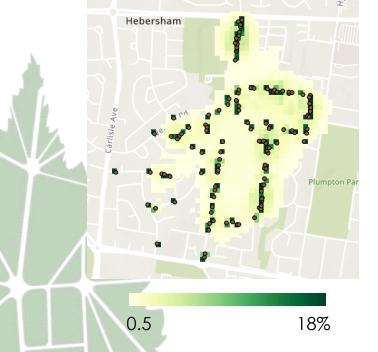


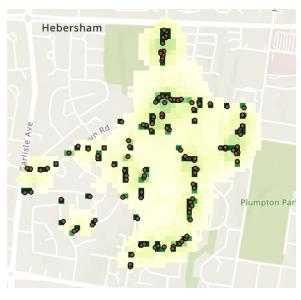


Estimated Future Canopy Change

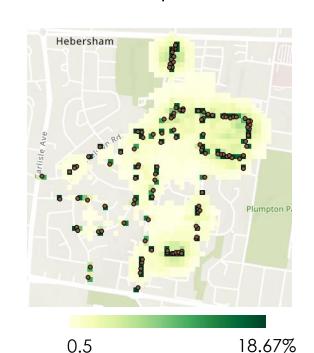
Repeated analyses of 30% random samples...

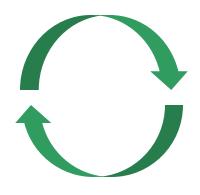
21.11%





0.5











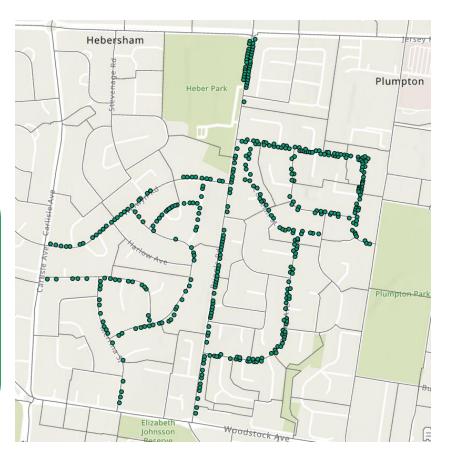


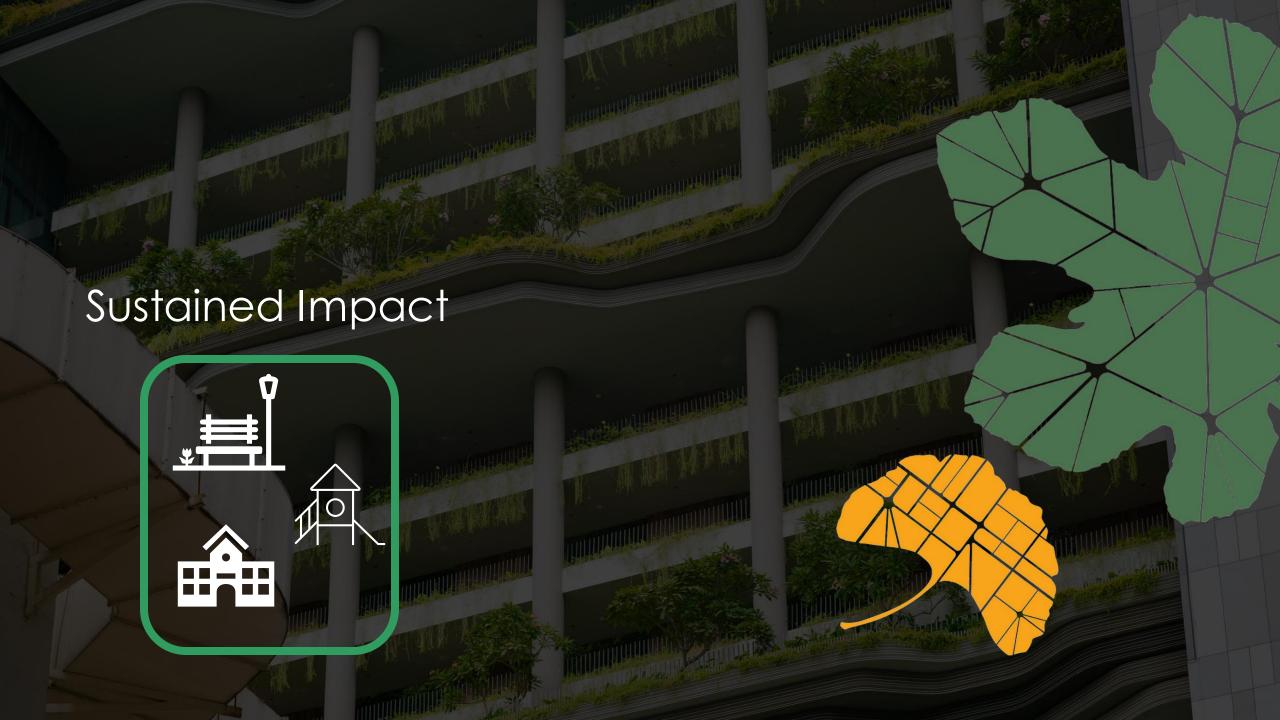
400 street trees 30% survival



 $3,100 \pm 100$

People Impacted







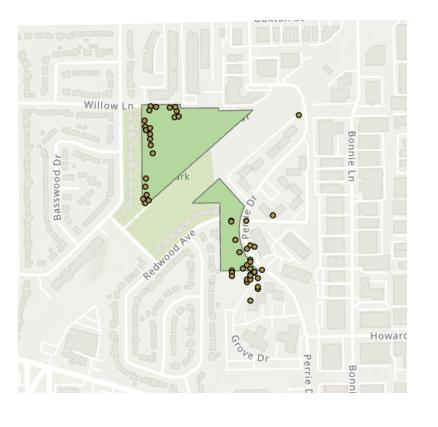






57 trees at Udall Park in Elk Grove Village







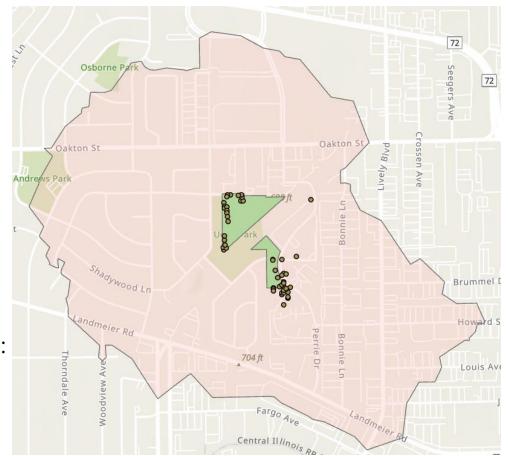






Trust for Public Land
ParkServe:
10 Minute Walk Network
ParkHitex
(Kaczynski et al., 2020)
10 Minute Walk Network
Buffer

- Model park attributes:
 - Size: 9.53 acres
 - Park quality score: 68.65
- Average probability of park visit: 32.15%









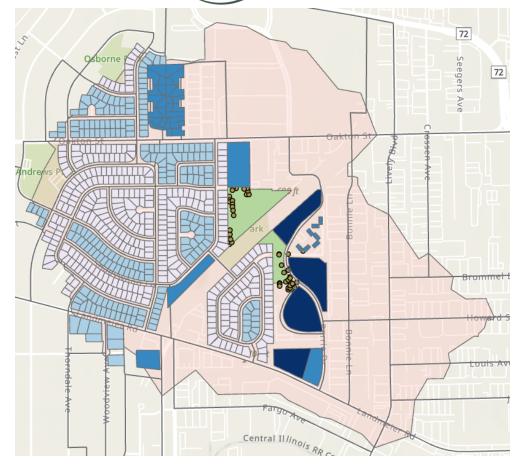
Supported by Microsoft

Sustained Impact



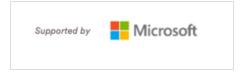
Approx.1000

People Impacted





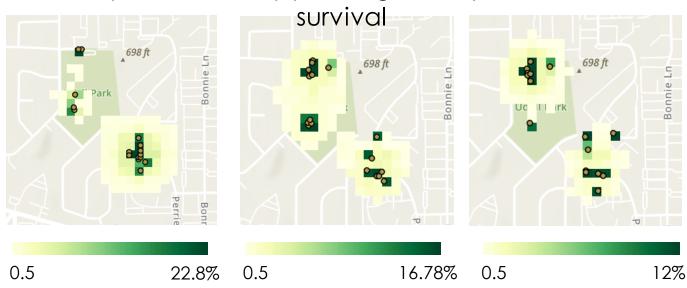




Proximity Impact



Repeated canopy change analyses of 30%











Proximity Impact



 200 ± 100

People Impacted



Population estimated to be impacted by canopy change



Estimated park visitors (assuming equal distribution)







Supported by Microsoft

57 trees at Udall Park



Approx. 1,200

People Impacted



Path forward

- Continue to iterate on methodology
- Long-term vision: open-source tool





Thank you

Rachelle Lim | City Forest Credits



rachelle@cityforestcredits.org

Acknowledgements:

Dr. Kathleen Wolf, University of Washington Holly Beale, Microsoft American Forests One Tree Planted Society for Ecological Restoration Chicago Region Trees Initiative Blacktown City Council















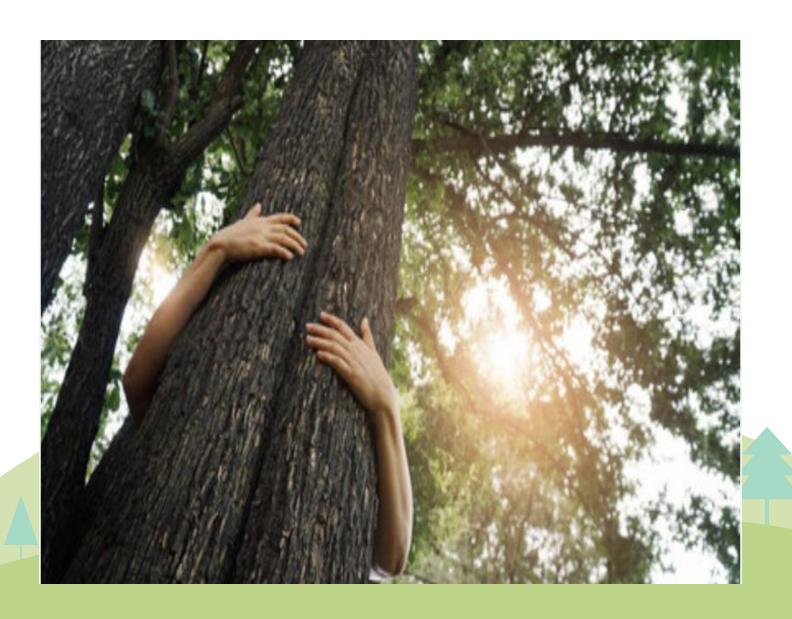


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FOREST THERAPY

Human Origin



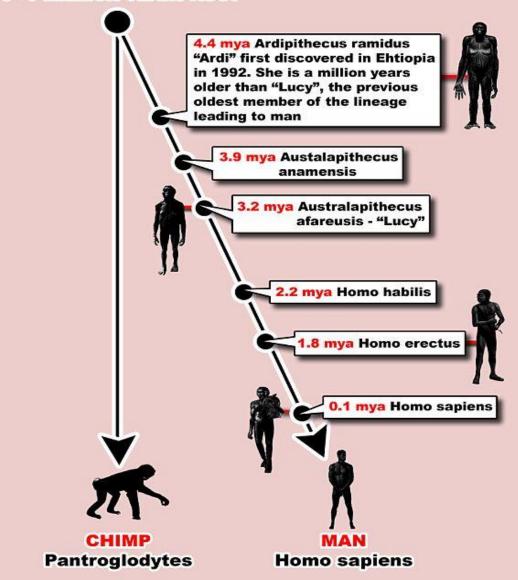
Background

bio-phil-ia (bahy-oh-fil-ee-uh) noun

an innate and genetically determined love for the natural world felt universally by humankind.

LAST COMMON ANCESTOR OF MAN AND CHIMP

6 - 7 MILLION YEARS AGO?



Background

#1

FASCINATION

Evokes sense of awe and wonder

#2

BEING AWAY

Detached from worries and troubles

Restorative Environments

#3

EXTEND

Detached from worries and troubles

#4

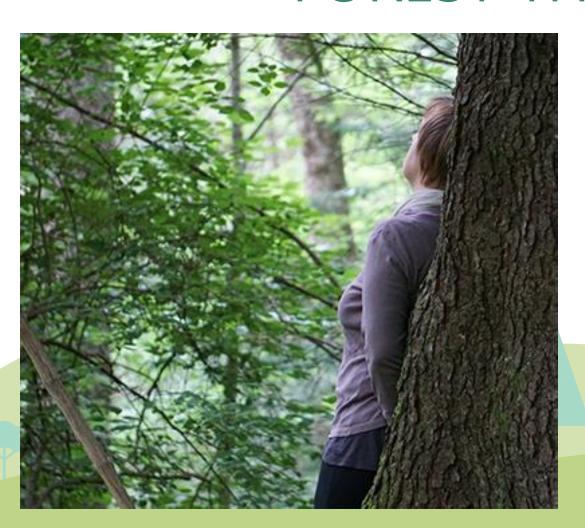
COMPATIBLE

Human goals and environment characteristics align

Under the background of "BIOPHILIA"

1. Attention Restoration Theory

FOREST THERAPY



Premising to fulfil "BIOPHILIA need"



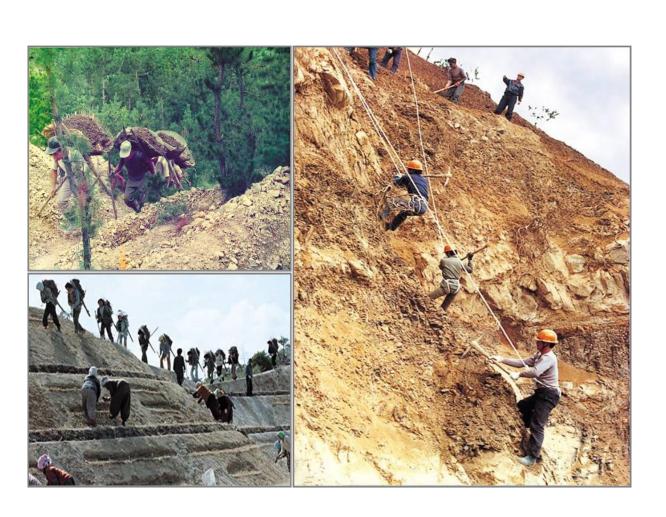
Background

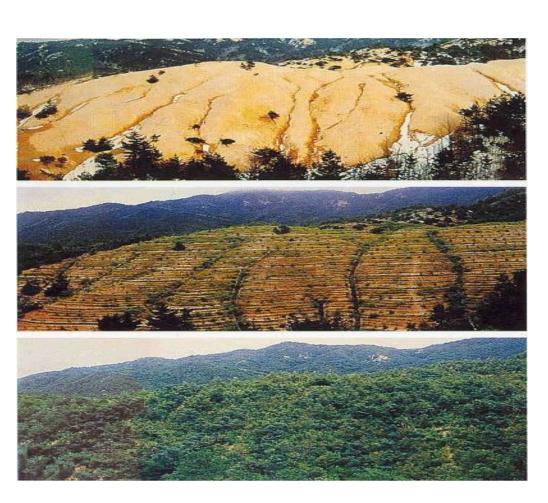
Forest has been deeply involved in human origin, humannature, and identity, beyond health and quality of life.

Physiological	Positive effect on human physical function and/or physical health (O'Brien and Forster, 2017; Lee and Shin, 2019; Yi et al., 2019; Berto, 2014; Lee et al., 2014;)
Psychological	Positive effect on human mental processes and emotions (Oh et al., 2020; Hansen et al., 2017; Lee et al., 2017; Lee et al., 2011; Shin et al. 2010;)
Cognitive	Positive effect on human cognitive ability or functions as well as provision of educational opportunities in an outdoor and healthy environment (Kyu-Won Sim et al., 2018; RSPB, 2013; Shin et al., 2011; Shin et al., 2001)
Social	Positive effect on social skills, interactions, behaviors and lifestyle (Ambrose-Oij and O'brien, 2017; Yeon et al., 2019; RSPB, 2013; Maller, 2009; Shin et al., 2005;)
Spiritual	Positive effect on cultural and religious pursuits or spiritual well-being (O'Brien et al., 2017; Collins et al., 2014; Kenter et al., 2014; Laband, 2013; Chen-Hsuan Cheng and Monroe, 2012;)
Economic	Positive effect on local economy and employment, especially in smaller and remote mountain areas (Shin et al., 2017; Edwards et al., 2009; Hine et al., 2009)

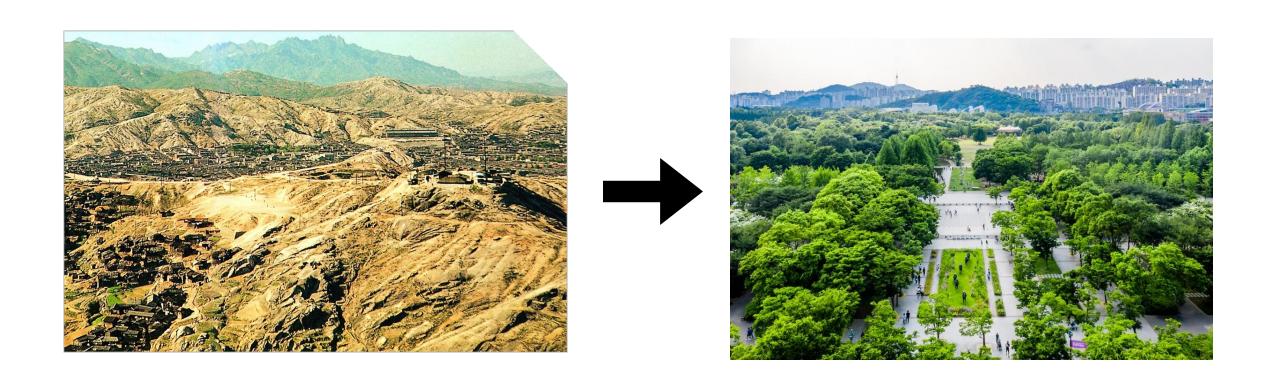


SUCCESS OF FOREST RESTORATION





SUCCESS OF FOREST RESTORATION



"Miracle on the Han River"

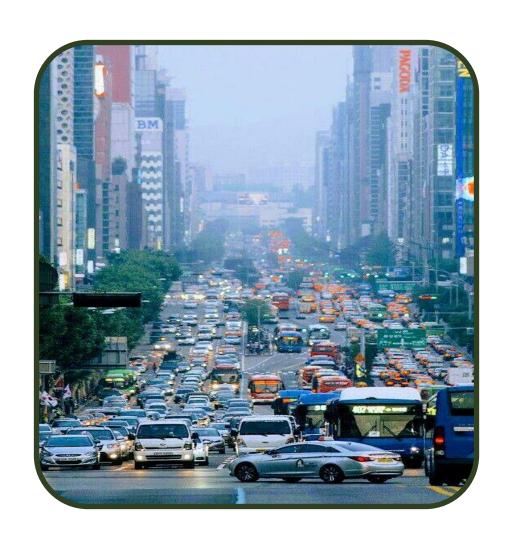
SUCCESS OF FOREST RESTORATION



Forest Restoration:

A Path to Public
Health & Welfare

Why Did Forest for Human Health Policy Emerge in Korea?



- 1. Korea's urbanization and it's shade
- Rapid urbanization
- Densely populated country
- Longest working hours
- Highest competition, etc.
- 2. Super aged society
- Pressure of medical finance
- Preventive medicine
- 3. Rich forest resources

Progress of Forest Welfare/Therapy Policy

Proclamation ceremony for vision of forest welfare Comprehensive forest welfare plan

Enactment of Act on Forest Welfare Promotion_

2016

Establishment of Korea Forest Welfare Institute_

New Legislation on the Forest Welfare



Forest Welfare Promotion Act in effect (March in 2016)

To contribute to improve people's health and happiness through various forest welfare services

The world's first case of legislation to specify 'forest welfare'



Establishment of Specialized Agency



Korea Forest Welfare Institute (April in 2016)

: To promote forest welfare and to make contribution to the improvement of health and quality of life and the pursuit of happiness by providing diverse and well-organized forest welfare services.



Forest Welfare Facilities



Tailored Services



Professionals Education



Programme Development



Therapeutic Benefits of Forest (Conclusion)

- Forests may provide opportunities which foster the establishment of more efficient and active behavior
- Thereby enhancing mental health and psychological functioning
- Many previous research have examined the therapeutic value of forest
- Most of studies appraised the values of the forest-related clinical programs in improving the effective performance of delinquents; of inand out-patients

Even previous studies support the health and QOL effects, Forest

Therapy now need to expand it's philosophy more fundamental purpose of

we Human Being

Memorandum of Agreement (MOA) signing





Opportunities and avenues for continued collaboration

Co-presentations at national/international conferences

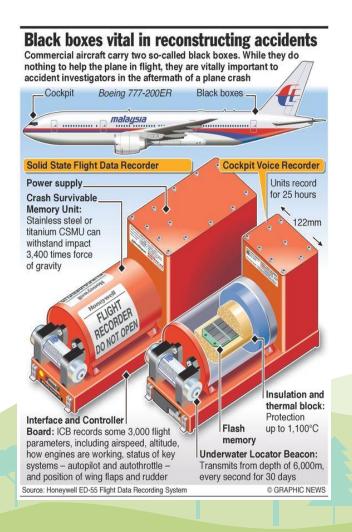
- International Forest Therapy Conference, Vancouver, British Columbia, 2022
- Women's Forest Congress; Minneapolis, MN, 2022
- World Forum on Urban Forests; Washington, DC, 2023
- International Union of Forest Research Organizations (IUFRO); Stockholm,
 Sweden, 2024

Research and Development collaboration

- Improve data collection techniques
- Collaborate around technology development
- Engage in collaborative research endeavors



Challenges



01

Need more to identify "What beneficial outcomes occur to an individual during one's experience with forests, especially spiritual aspects and purpose of life

02

➤ How might this interaction with forest benefit the shaping of a developing public health and well-being

03

Does an individual's experience of forest offer an enriched perspective on life



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Type of users: pathways towards our health and well-being



Presented by

Beforment 81 National Resources and the Environment

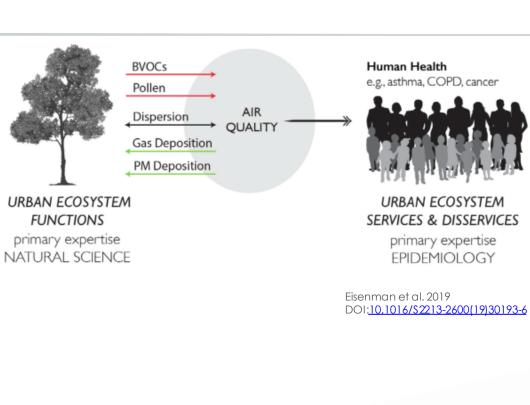
University of Connecticut





Physical and mental health Encouraging outdoor

physical activity and improving mental health





Ecosystem services

Providing shade and cooling our city





URBAN AND COMMUNITY **FORESTRY GRANTS**

> USDA is an equal opportunity provider, employer, and lender

\$1.5 Billion to Expand Tree Canopy and Access to Nature

100% of Benefits Will Flow to Communities in Greatest Need

Urban and Community Forestry Grants, authorized under the Inflation Reduction Act, provide funding to community-based organizations, Tribes, State and local agencies, public colleges and universities, and non-profits working to provide equitable access to trees and nature and the benefits they provide to urban



Investing in a Healthie **Future for America**

flowing to those in §

385 grants were awarded to 50 states, 2 territories, 3 U.S.-affiliated Pacific Islands, and mul communities with 1

in our Communities

non-profit organizations, Tribes, provide shade, absorb storm water, create

in our Communities

Confronting the Growing Threat of **Extreme Heat and Climate Change**

SENEGAL: Ecolibri to plant an urban forest of 1,300 trees in Dakar

y Inès Magoum - Published on June 8 2021 / Modified on June 8 2021



The environmental organisation Ecolibri has just launched a project to plant an urban forest of 1,300 trees in Dakar, the capital of Senegal. The project, supported by the European Union (EU), aims to accelerate reforestation in order to preserve the environment.



Innovador y ambicioso programa dotará de 30 mil nuevos árboles a comunas con déficit de áreas verdes de la RM









Some evidence

- Differential patterns of value for nature relate to cultural, historical and contextual factors (Triguero-Mas et al. 2021, Neidig et al. 2023).
- Preferences on greens spaces differ by inmigrant status and age group (Kabisch and Haase 2014).
- Woman and men differentially use, experience and share benefits from ecosystem services (Fortman et al. 2019).
- Lack of direct experience with nature can lead to alienation from nature (Soga and Gaston 2016).
- Greening can be related to the loss of place-specific culture and traditions because of gentrification (Lliso et al. 2022).
- Greening material practices and discourses have excluded marginalized voices producing environmental injustices (Kabisch and Haase 2014).





Where did we test this? Santiago (Chile)

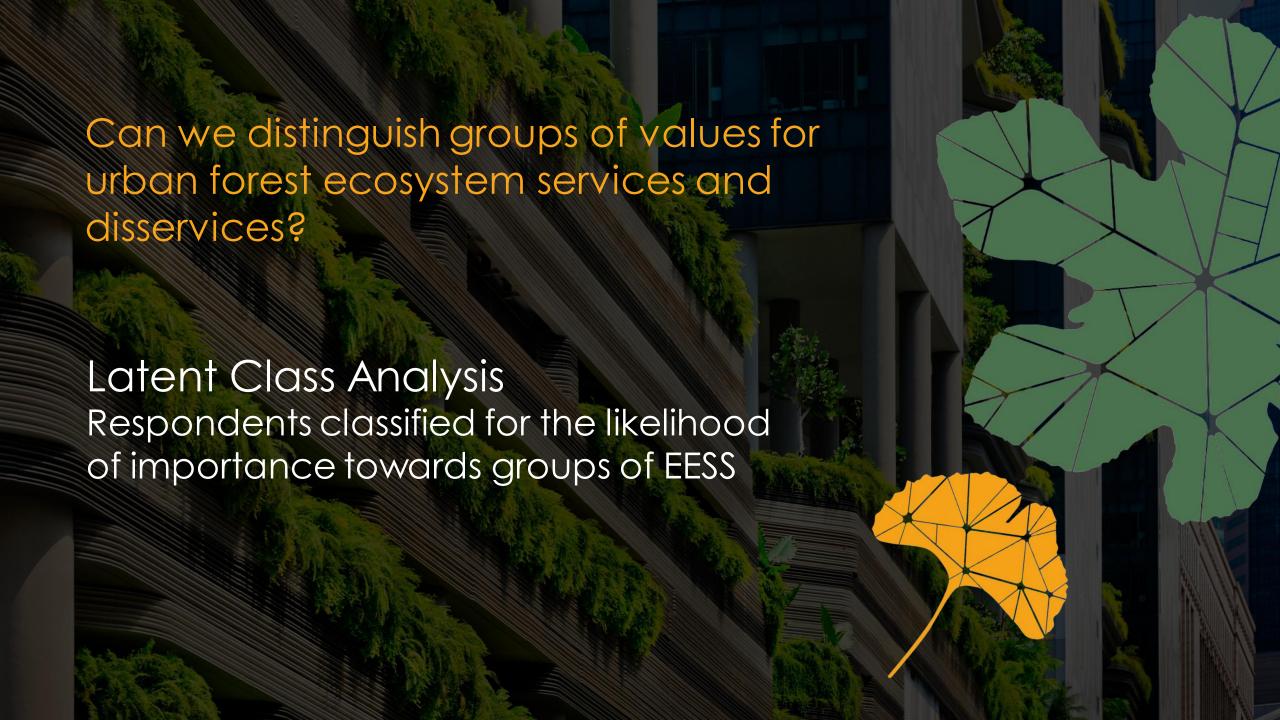
- Population: over 7 million
- Environmental issues: air pollution, waste management, drought, climate change and lack of trees and green spaces, biodiversity (MMA, 2019)
- Inequities on urban forests distribution (<1 m²/inhab. to 40 m²/inhab.), abundance and access to GS (Dobbs et al. 2023)

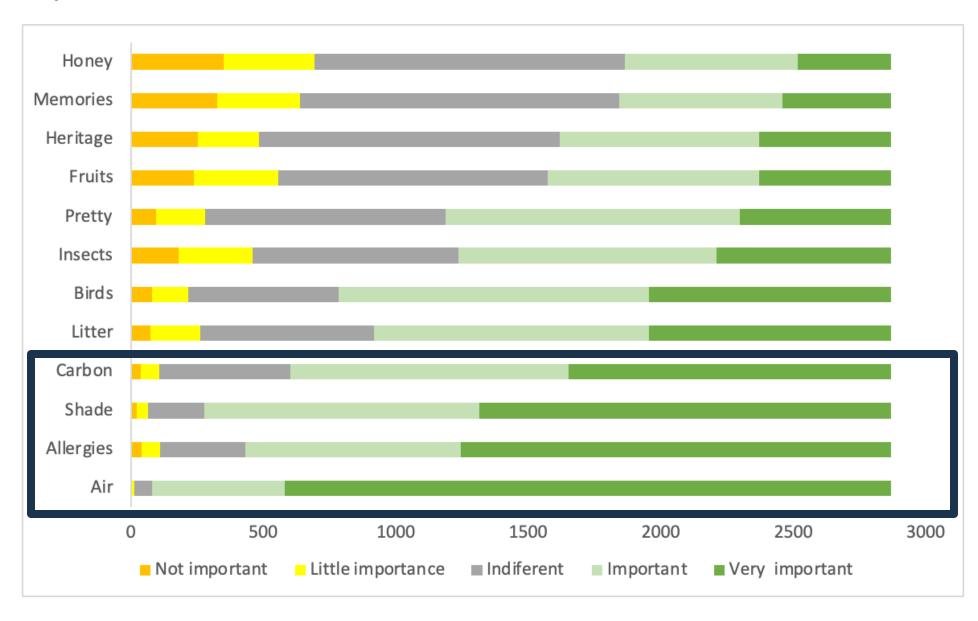


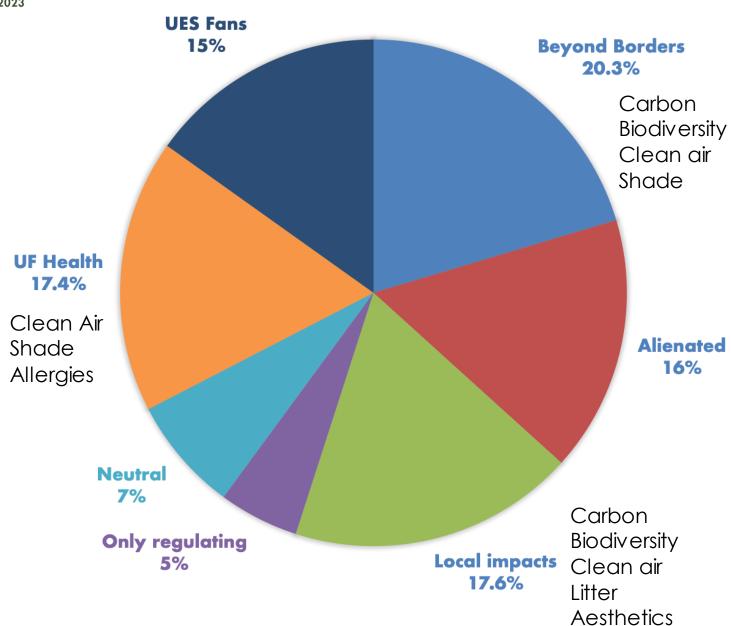


What did we measure?

- Online survey = 2868 respondents (Netquest Ltda)
- Stratified by socioeconomic distribution of the population, and representing each municipality in the Region
- Age, gender, education, residence, type of residence
- Rate the importance of the following benefits and nuisances delivered by trees in urban areas (Cuan importante son los siguientes beneficios y externalidades negativas de los arboles urbanos?)
- Values on ecosystem services (5-point Likert scale): not important to very important









Key messages

- Perspectives on urban forest varied among people living in the same region
- There is an agreement on values of urban forests EESS related to local environmental problems
- EESS with global impact are valued by less than 50% of the respondents
- Disservices were considered important to consider for urban forests for 50% of the respondents





Ecosystem Service	Gender	Age	Income	Education	Type of house	Work with nature		
Shade			Less more affluent					
Clean Air	Shared highly important							
Carbon	Shared important							
Fruit provision		Higher 36-45			More house			
Honey provision		Higher>25	More high income					
Aesthetics		Higher>56	Less high income			No importance		
Culturalidentity		Higher>25	More high income	More complete education		No importance		
Childhood memories		Higher>36	More high income					
Attractive to birds	Shared low importance							
Attractive to insects		Higher>56						
Allergies	Shared important Shared important							
Litter	Shared important							



Key messages

- Confirmation of shared ecosystem services and disservices.
- Age group should be considered when planning for urban forests.
- Higher income population include cultural services in their valued services – already cover their other needs with higher greening?
- People working with nature do not give importance to cultural services.
- Security was not explored.
- Gender did not showed differences for importance for EESS



Takeaways for planning

- Place-based planning
- Community participation towards greening decisions
- Greening towards equity should consider the gradient of values and desires
- Greening gives an opportunity for creating links among different groups values
- Disservices should be considered when planning for future greening



Thank you

Cynnamon | UConn





























CEUs

Session 1.2: Barefoot in the Park: How contact with nature can affect our health and wellbeing



PP-23-3556

