Municipal & community forestry: A global perspective of growing people and tree relationships

Cecil Konijnendijk

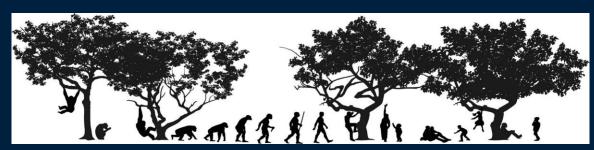


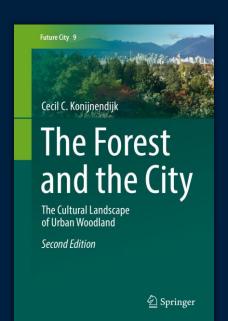
Illustration by Cathy Bedenbaugh, in Townsend and Barton (2018)

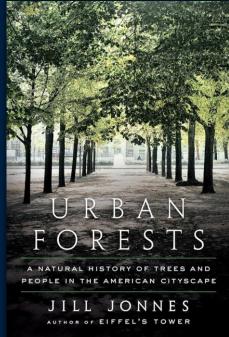




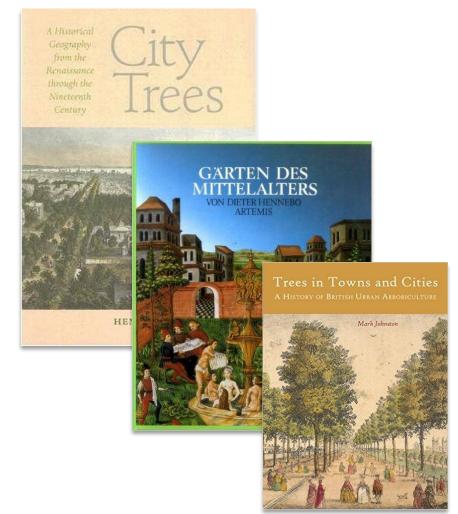


Historical roots

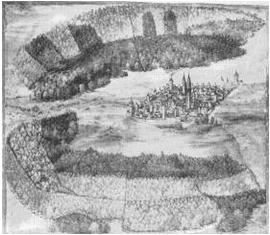




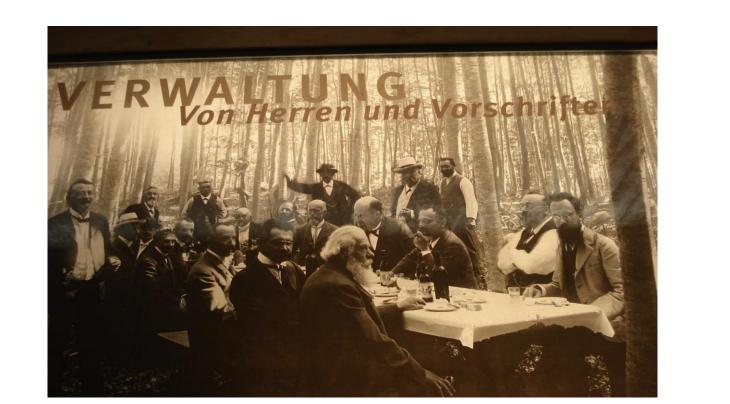








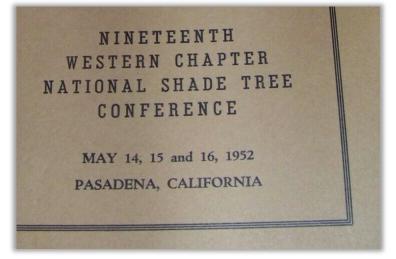
Source: Schama (1995)

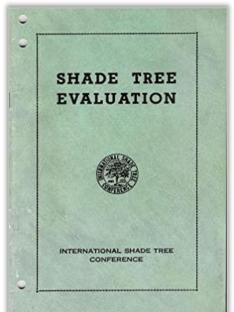


THE DEATH
AND LIFE
OF GREAT
AMERICAN
CITIES

JANE JACOBS

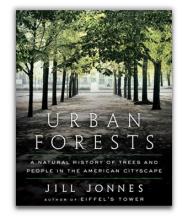
Cities are an immense laboratory of trial and error, failure and success, in city building and city design – Jane Jacobs (1961)



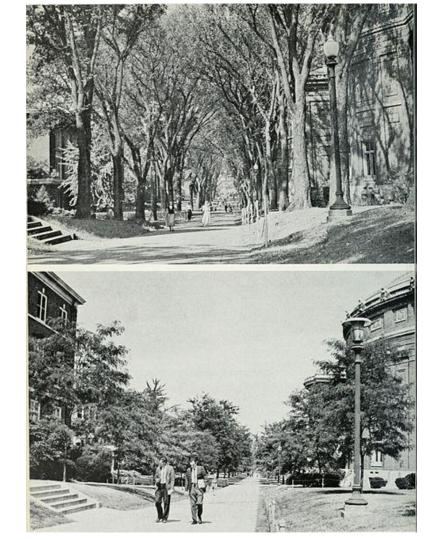


https://commons.wikimedia.org/wiki/File:Dutch_elm_disease_in_Illinois_(1967)_(204939 12723).jpg

Carter, J. Cedric (James Cedric), 1905-; Illinois. Natural History Survey Division



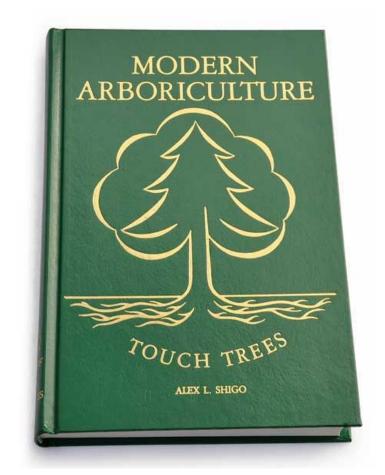




Urban Forestry

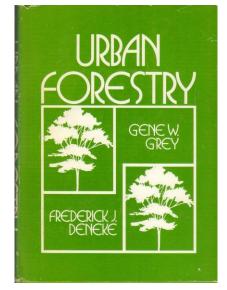
The art, science, and technology of managing trees and forest resources in and around urban community ecosystems for the physiological, sociological, economic, and aesthetic benefits trees provide society

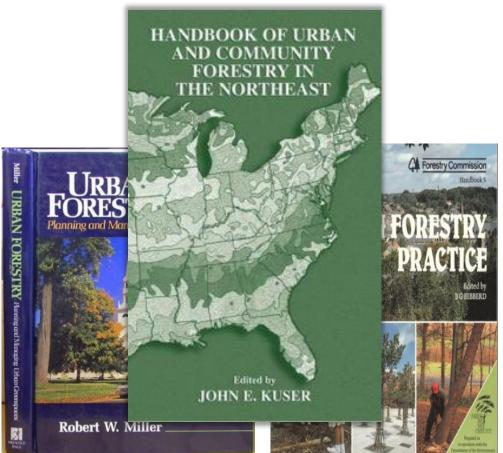
(Helms 1998, based on Miller 1997)

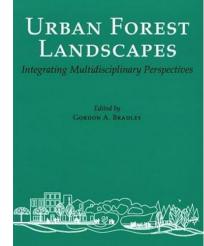


Gaining strength and becoming international

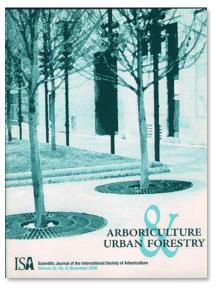


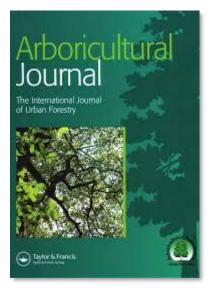


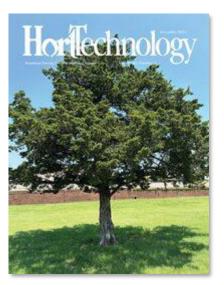




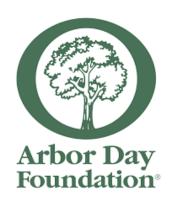




















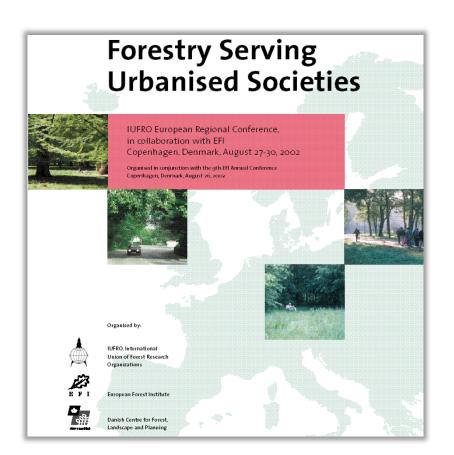










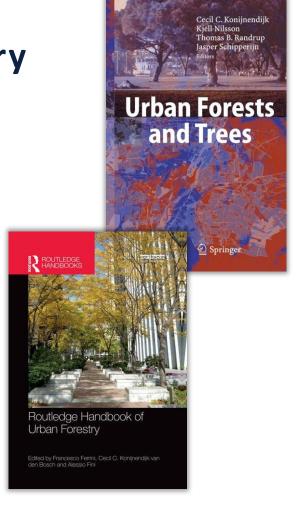




| | , and the second | Title | Туре | ↓ SJR | H index | Total Docs. (2023) | Total Docs. (3years) | Total Refs. (2023) | Total Cites (3years) | Citable Docs. (3years) | Cites Doc (2years | . Doc. | %Female (2023) | |
|-----|------------------|---|-------------|--------------|-------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-------------------------|--------|-------------------|---|
| URB | 1 | Journal of Bioresources and Bioproducts 3 | journal | 2.880 Q1 | 39 | 39 | 89 | 2470 | 1909 | 89 | 23.39 | 63.33 | 34.76 | ı |
| | 2 | Science of Remote Sensing 6 | journal | 2.372 Q1 | 15 | 39 | 66 | 3014 | 529 | 65 | 5.73 | 77.28 | 26.25 | ı |
| | 3 | Current Forestry Reports | journal | 2.316 Q1 | 44 | 32 | 62 | 3874 | 690 | 62 | 9.13 | 121.06 | 32.29 | ı |
| | 4 | Land Use Policy | journal | 1.847 Q1 | 153 | 434 | 1919 | 31704 | 14434 | 1912 | 6.94 | 73.05 | 39.44 | 7 |
| | 5 | Computers and Electronics in Agriculture | journal | 1.735 Q1 | 168 | 862 | 2056 | 40643 | 21572 | 2056 | 9.27 | 47.15 | 30.69 | 6 |
| | 6 | Agricultural and Forest Meteorology | journal | 1.677 Q1 | 196 | 415 | 1130 | 31672 | 7255 | 1129 | 6.00 | 76.32 | 32.26 | 2 |
| | 7 | Urban Forestry and Urban Greening | journal | 1.619 Q1 | 117 | 274 | 989 | 20118 | 6877 | 984 | 6.45 | 73.42 | 45.16 | J |
| | | 10000 | aca alca at | ffaatad here | chanication | The dam | inanaa and | l naliare male | ner fram 10 aa | mateian ateanna | d the need | | | Adjusted that the other land production as are est |

Key Characteristics of Urban Forestry

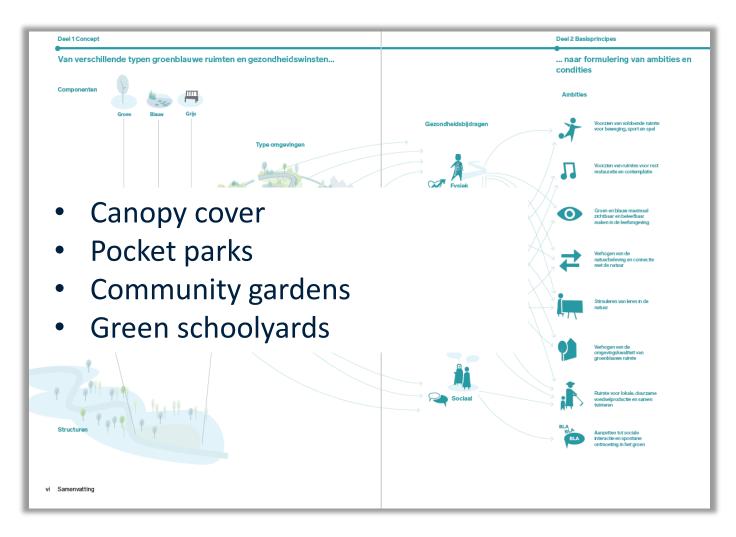
- Integrative: all tree resources; urban and periurban; planning & management
- Strategic: long-term vision, multiple use
- Inter-/multidisciplinary: wide range of disciplines/fields
- Participatory: stakeholder involvement
- Urban: urban conditions; meeting urban demands











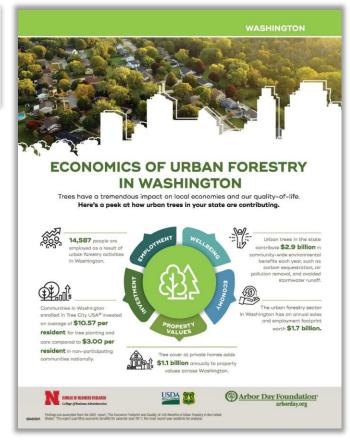


Tools for Assessing and Managing Forests & Community Trees



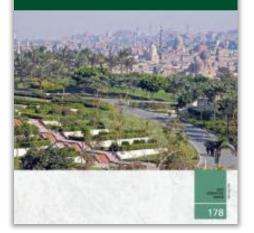


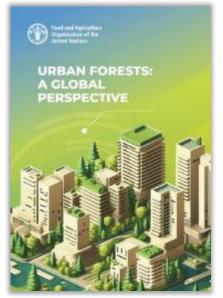


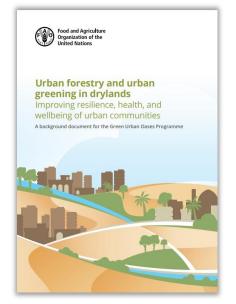




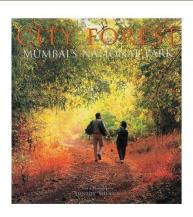
Guidelines on urban and peri-urban forestry

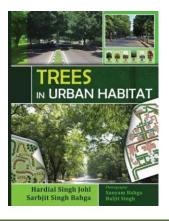


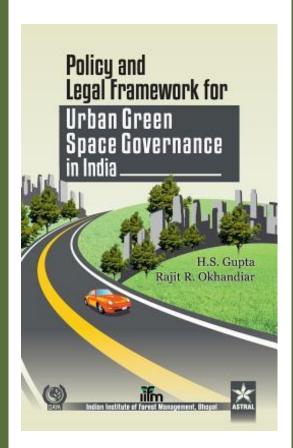


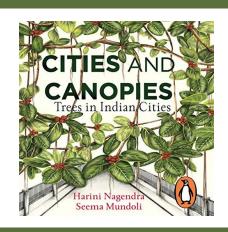


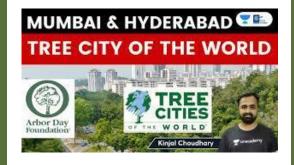














CO-ORGANIZERS

















Australia, Austria, *Belgium*, Bosnia-Hercegovina, Bulgaria, **Canada**, China, Croatia, Czech Republic, **Denmark**, Germany, **Finland**, *Hong Kong*, Iceland, Iran, Ireland, Israel, Italy, Japan, Malaysia, **Netherlands**, Poland, Portugal, Russian Federation, Saudi Arabia, Serbia, South Africa, Slovenia, **Spain**, Norway, **Sweden**, Switzerland, United Kingdom, *United States*

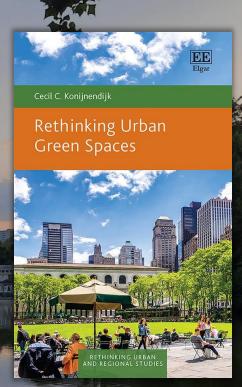


The 12 Cs for better urban and municipal forestry

- Connection
- Collaboration
- 3. Community

- Creati
- Courag
- Champions
- Communication 10. Cash
- Clarity
- Competence

- 11. Context
- 12. Complexity





Connection





Malmö stad

Trees for Seattle

Trees for Seattle is the umbrella for all of the City of Seattle's urban forestry efforts. Our commitment is to ensure that Seattle's forest is healthy, vibrant, supported, and growing. You can find information through our website here, or you can contact us at treesforseattle@seattle.gov or **206-684-TREE (8733)**. You can also follow:us-on-database-treesforseattle.gov or add your email to sign-up-for-our-monthly-newsletter.

Collaboration



































































Urban Forest

NURSERY

Wholesale Tree Nursery



EVERYONE DESERVES TREES.

tree equity is making cities cleaner, safer, and healthier for people and the planet.



Community

GLOBAL MOVEMENT FOR TREE EQUITY







How Many People are Killed by Falling Trees Every Year in the U.S.?

Los Angeles Tree Injury Lawyer

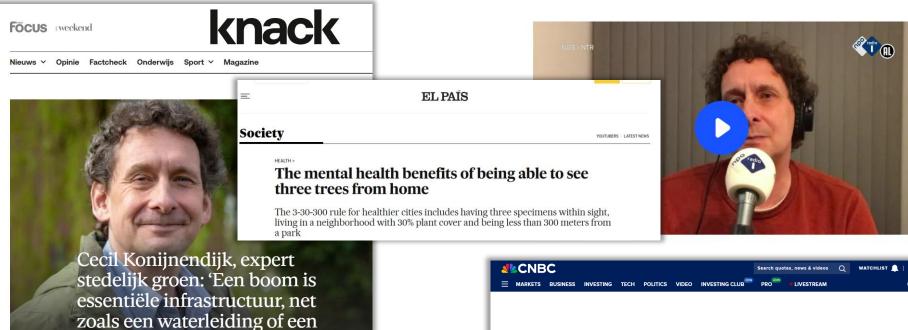
California is a state known for its beautiful native trees. The last thing anyone expects is an injury from a falling tree or tree branch, but falling trees and limbs have the potential to cause great harm, including property damage, injury, and death. But did you know you might be entitled to compensation for a tree-related injury?

The majority of falling tree or tree branch cases in the Los Angeles area fall under <u>California's premises liability law</u> — the same law stating that property owners are liable in slip and fall accidents occurring on their property, also applies to injuries caused by trees located on both private and public properties.

Tree Fall Injury Lawyer

START YOUR FREE CONSULTATION

Communication











3-30-300

REGLA PRÁCTICA PARA LA PLANIFICACIÓN Y GESTIÓN DEL BOSQUE URBANO Y LA INFRAESTRUCTURA VERDE







3 ÁRBOLES POR HOGAR

30 POR CIENTO DE COBERTURA DE DOSEL ARBÓREO EN CADA BARRIO 300 METROS DE DISTANCIA A PARQUES PÚBLICOS O ÁREAS

¿CUÁNTO DE ESTA REGLA SE CUMPLE EN **GUAYAQUIL, ECUADOR?**





DE LOS HOGARES

MUESTREADOS EN

URDESA CUENTAN

CON LÁRBOLES A





UPDESA CUENTA CON 20% DE COBERTURA DE DOSEL ARBÓREO

SUPERFICIE DE URDESA SE

ENCUENTRA A 300 METROS DE DISTANCIA DE



MENOS DE LA

MITAD DE LOS

HOGARES

LA VISTA



SAUCES CUENTA CON 9% DE COBERTURA DE MUESTREADOS EN DOSEL ARBÓREO SAUCES CUENTAN CON 3 ÁRBOLES A









LA FLORESTA CUENTA CON 7% DE COBERTURA DE DOSEL

SUPERFICIE DE LA FLORESTA SE **ENCUENTRA A 300** METROS DE

DISTANCIA DE

PARQUES

Search

Q

Log in

For You

Explore New

Se Following

LIVE

Profile

Log in to follow creators, like videos, and view comments.

Log in



Company

Program

Terms & Policies © 2025 TikTok



#trees 1M posts









Hey lets plant some



Changing seasons .

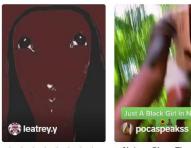




The tree had pink



#foryou #scenery #tree



- Nature Gives The Best

















Landscape and Urban Planning 251 (2024) 105154



Contents lists available at ScienceDirect

Landscape and Urban Planning

journal homepage: www.elsevier.com/locate/landurbplan



Research Paper

A content analysis of urban forest management plans in Canada: Changes in social-ecological objectives over time

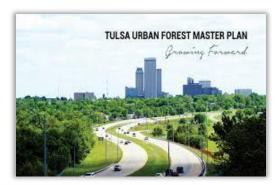
Camilo Ordóñez Barona ^{a,b,*}, Annick St Denis ^c, Jackson Jung ^a, Corinne G. Bassett ^d, Sylvain Delagrange ^e, Peter Duinker ^f, Tenley Conway ^a

HIGHLIGHTS

- We analysed the content of 74 Canadian urban forest management plans.
- Ideas referring to increasing tree abundance dominate.
- Ideas related to increasing tree abundance and climate change increased in 20 years.
- Administration and tree maintenance ideas are more mentioned in smaller cities.
- Increasing urban forest abundance may have management trade offs.











D3 Targets, Priorities and Actions

T1 Relative Tree Canopy Cover

Canopy cover, which is often also referred to as tree canopy cover or urban canopy cover, can be defined as the area of leaves, branches, and stems of trees covering the ground, across a given area, when viewed from above. Canopy cover is a two dimensional metric, indicating the agreed of canopy cover across an area. Assessing canopy cover is popular because it is relatively simple to determine from a variety of means and it can be calculated at relatively tittle expense.

Several studies have already been undertaken on estimating the canopy cover in Birmingham, including the Forest Research 2017 i- Tree Canopy survey, the 2020 urban canopy cover citizen science surveid the Bluesky National Tree Map data already held by BCC. However, these studies are not directly comparable with each other as they used different methods, definitions (of what constituted urban tree canopy cover) and project boundaries. Going forward Birmingham will identify a suitable project area and method of assessment so that repeat surveys can be compared in order to track and monitor performance.

| - | | | |
|-------|--------------------------------------|------|--|
| 22% | 3-Tree Canopy | 2012 | www.urbanimecoverorg |
| 10.0% | Forest Research Canopy Assessment | 2016 | BOC website and Eliminghams' tree policy |
| 10.7% | Bluesky NTM | 2019 | Elizesky Nadonal Tree Map |
| 21.3% | i-Tree Canopy Ward level | 2020 | https://www.forestressarch.gov.uk/research/i-tree-eco/ sefsarcarcpycover/ |

Table 1: Historic Urban Tree Cover Estimates for Birmingham

Actions

- Assess and determine which sets of data are best to use for establishing Birmingham's relative tree canopy cover;
- 2. Determine what the potential and actual tree canopy cover are at the ward level.

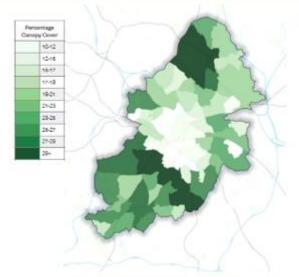
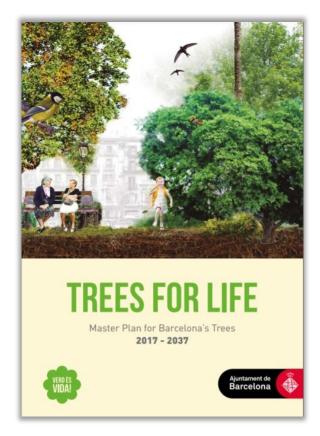
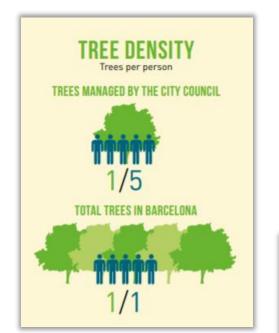


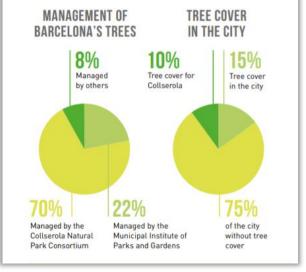
Figure 1: Birmingham's Existing Canopy Cover By Ward measured with Sentine Satellite Data

| Priority | Responsibility for Action | For Review: | | |
|----------|--|--------------------|--|--|
| 1500 | BCC will collate the available information from various sources including the Woodland Trust, Birmingham University and Forest Research. | April 2022 - Short | | |
| High | STP will commission a piece of work to ascertain how the existing tree canopy cover compares with the potential canopy cover | term project | | |

| Performance level | Performance Indicators | | | | | | |
|-------------------------------|--|---|---|--|--|--|--|
| | Low | Moderate | Good | Optimal | | | |
| Data source decision required | The existing canopy cover equals 0-25% of the potential. | The existing canopy cover equals 25-30% of the potential. | The existing canopy cover equals 50–75% of the potential. | The existing canopy cover equals 75–100% of the potential. | | | |







Competence

OBJECTIVES: SFI URBAN AND COMMUNITY FOREST SUSTAINABILITY STANDARD



OBJECTIVE 1: COMMUNITY, PEOPLE, AND INDIGENOUS PARTICIPATION



OBJECTIVE 2: HUMAN HEALTH AND WELL-BEING



OBJECTIVE 3:
PROTECTION AND
CONSERVATION OF
BIODIVERSITY



OBJECTIVE 4: STEWARDSHIP OF NATURAL RESOURCES, INCLUDING AIR, WATER AND SOIL



OBJECTIVE 5: URBAN AND COMMUNITY FOREST AND TREE HEALTH AND VITALITY OBJECTIVE 6: SPECIAL SITES, INCLUDING NATURAL AREA



OBJECTIVE 7: CLIMATE-SMART MANAGEMENT



OBJECTIVE 8: URBAN AND COMMUNITY FOREST PLANNING



OBJECTIVE 9:
MANAGEMENT AND
CARE OF URBAN
AND COMMUNITY
FORESTS AND TREES

OBJECTIVE 10: DISASTER READINESS, RESPONSE AND RECOVERY



OBJECTIVE 11: CAPACITY BUILDING



OBJECTIVE 12: URBAN WOOD AND COMMUNITY FOREST UTILIZATION



OBJECTIVE 13: COMMUNICATIONS



OBJECTIVE 14: RESEARCH, SCIENCE, AND TECHNOLOGY

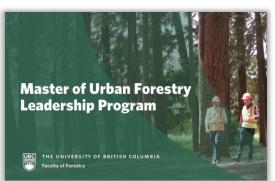


OBJECTIVE 15. LEGAL
AND REGULATORY
COMPLIANCE
INCLUDING
INDIGENOUS
PEOPLE'S RIGHTS

OBJECTIVE 16: REPORTING











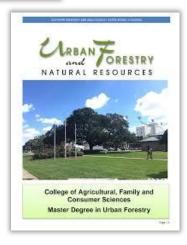
RUTGERS

School of Environmental and Biological Sciences

Urban Forestry Program





























SEPTEMBER 10, 2014

Find your SoulTree at TreeHarmony.org



Having trouble choosing a yard tree to love? Check out <u>TreeHarmony</u>, where you can take a fun personality quiz to get matched with your SoulTree. That's right – the yard tree of your dreams is just a few clicks away.. After getting matched with the leafy single that's just right for you, register to pick up your tree at one of our yard tree giveaways. Remember to share pictures of you and your new SoulTree using <u>#treeharmony</u> on Instagram and Twitter! If you want to skip the match-making, <u>you can go straight to the</u>

Courage



https://en.wikipedia.org/wiki/Lee_Myung-bak







https://www.youtube.com/watch?v=jNvZNKW02K4

OKRA

MEETING OKRA

NIFUW/S

DDO JECTEN

RUDO

OEKWOORD

NL EN

 \Rightarrow

HOME > PROJECTS > BUITENRUIMTE > CATHARIJNESINGEL





Opdrachtgever: Gemeente Utrecht

Oppervlakte: 4,2 ha

Jaar: 2020

Samenwerking:

Gemeente Utrecht, Witteveen+Bos, D. van der

Priis:

CATHARIJNESINGEL

HTDECH

De Catharijnesingel is weer rond!

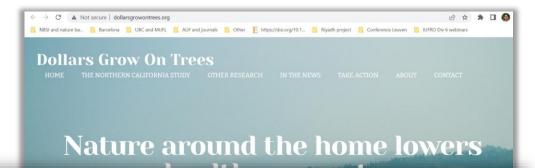
De singel is weer rond! Sinds september 2020 is de binnenstad van Utrecht weer helemaal omsingeld door water en groen. Het herstel van de singelstructuur rond de oude binnenstad is een belangrijk onderdeel van het Masterplan Stationsgebied. Hiervoor is de oorspronkelijke, historische waterstructuur hersteld door de gracht opnieuw te graven waar deze in het verleden is gedempt. In 2015 zijn de eerste delen





THE CENTRAL

Assessing the Value of Contribution to New Yo



We found that individuals living in the greenest neighborhoods incurred, on average, \$374 less per year in healthcare expenditures, than their peers living in the least green neighborhoods (Van Den Eeden et al., 2022)

Cash



and services

https://www.arborday.org/urban-forestry-

economic/#:~:text=The%20urban%20forestry%20sector%20has,employment%20footprint%20worth%20%2464%20billion.





Context



Chapter 11 SDG 11: Sustainable Cities and Communities – Impacts on Forests and Forest-Based Livelihoods

Tahia Devisscher,* Cecil Konijnendijk,* Lorien Nesbitt, Jennifer Lenhart, Fabio Salbitano, Zhaohua Cindy Cheng, Shuaib Lwasa and Matilda van den Bosch

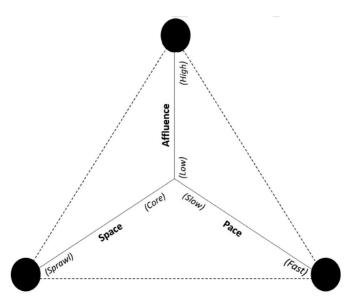
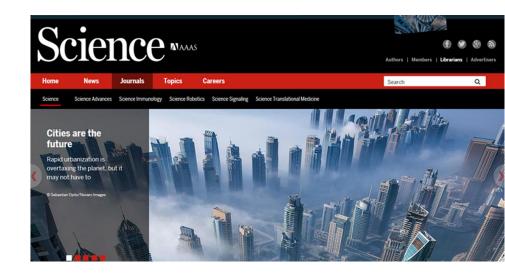


Figure 11.2 Framework used to categorise cities according to interrelated city growth dimensions and development characteristics.





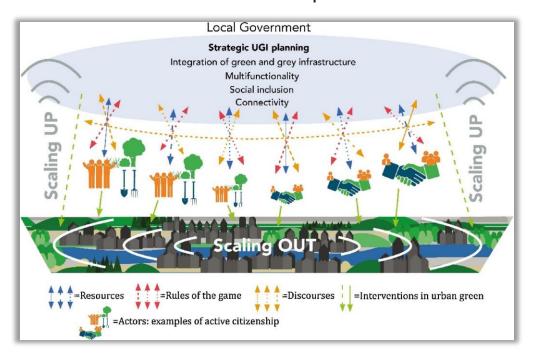
Urban Forestry & Urban Greening Volume 40, April 2019, Pages 53-62



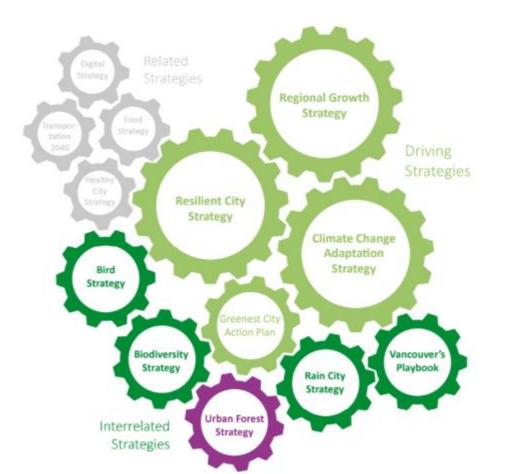
Mosaic governance for urban green infrastructure: Upscaling active citizenship from a local government perspective ★

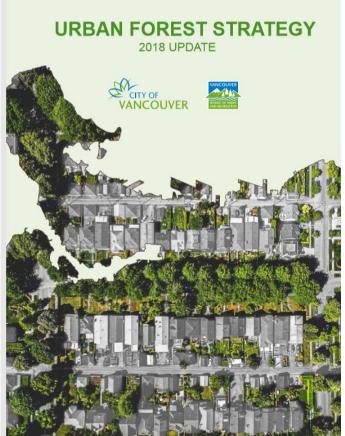
Arjen Buijs ^a A [®], Rieke Hansen ^b, Sander Van der Jagt ^c, Bianca Ambrose-Oji ^d, Birgit Elands ^a, Emily Lorance Rall ^b,
Thomas Mattijssen ^a, ^e, ^f, Stephan Pauleit ^b, Hens Runhaar ^a, ^c, Anton Stahl Olafsson ^e, Maja Steen Møller ^e

Mosaic governance: "the diversity of processes that may facilitate existing active citizenship and stimulate its upscaling through a mix of governance modes and policy interventions tailored to the socio-ecological context of urban landscapes".



Complexity







Urban Forestry & Urban Greening

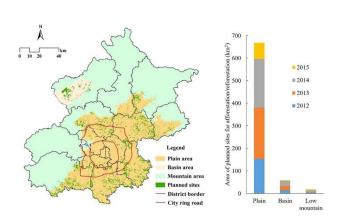
Volume 44, August 2019, 126392

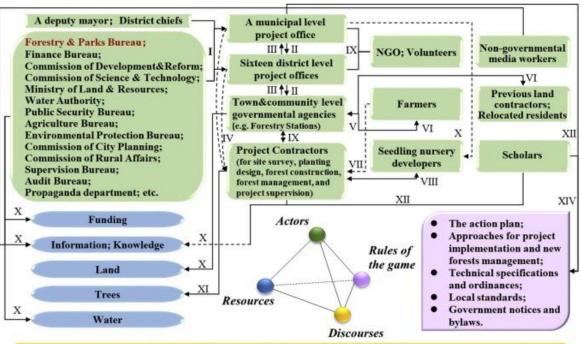


Original article

Beijing's 50 million new urban trees: Strategic governance for large-scale urban afforestation

Na Yao ^{a, b} ⊠, Cecil C. Konijnendijk van den Bosch ^b ⊠, Jun Yang ^c ⊠, Tahia Devisscher ^b ⊠, Zach Wirtz ^b ⊠, Liming Jia ^a ⊠, Jie Duan ^{a, d} ⊠, Lvyi Ma ^{a, d} ⊗ ⊠





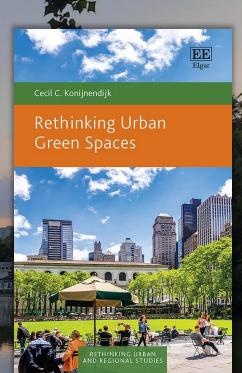
A) Reverse the deficiency of forest cover in Beijing's plain area and set up a 'green' image for the capital city; B) Improve urban forests' ecological services in Beijing; C) Promote residents' livelihood and boost ecological civilization; D) Industry relocation, population decentralization, ecological restoration, landscape renovation, etc.

The 12 Cs for better urban and municipal forestry

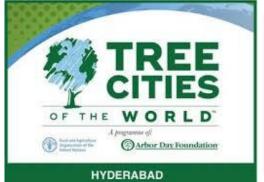
- 1. Connection
- 2. Collaboration
- 3. Community

- 7. Creativity
- 8. Courage
- 9. Champions
- 4. Communication 10. Cash
- 5. Clarity
- 6. Competence
- 11. Context
- 12. Complexity

- 13. Celebrate
- 14. Care









NEIGHBORHOOD NEWS > INDIAN COUNTRY









Regina acknowledged as a 'Tree City of the World' for consecutive year

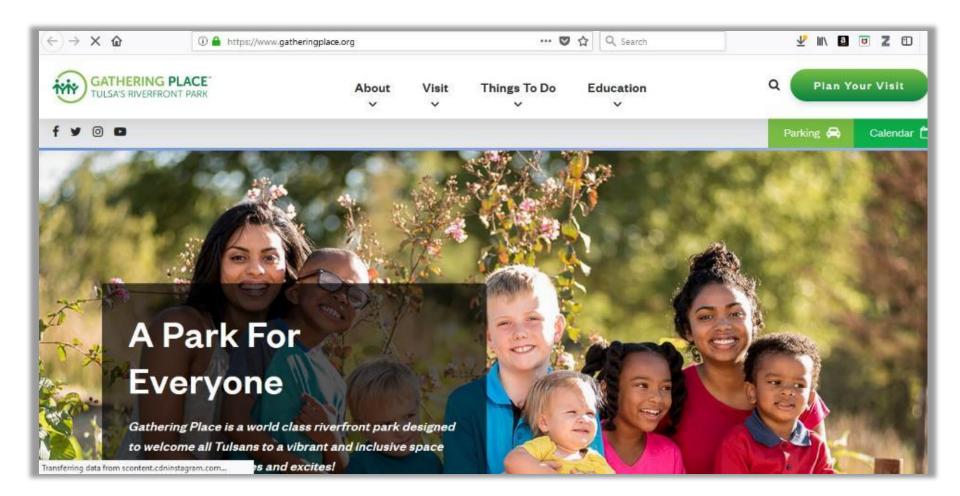
Regina / 980 CJME CJME News

CJME News Mar 3, 2021 | 7:28 AM





Celebration



Place Keeping

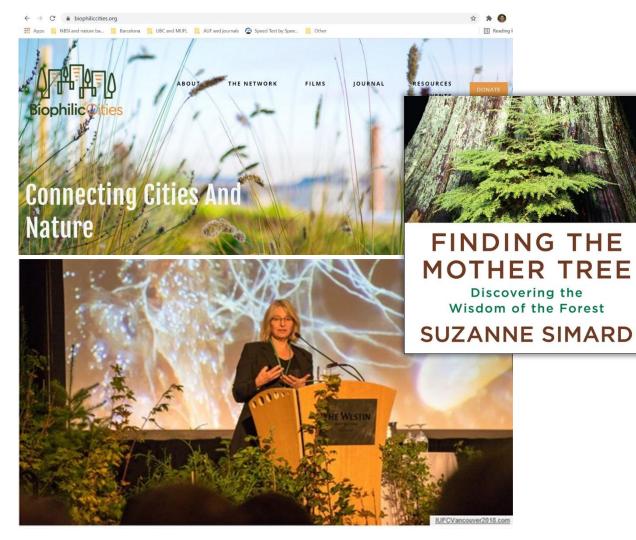
- Just making a place is not enough to ensure longer-term sustainability, use, success – place also has to be maintained / kept / developed
- 'Place-keeping': first coined by Wild et al.
 (2008)
- Long-term management which ensures that the social, environmental and economic quality and benefits the place brings can be enjoyed by future generations



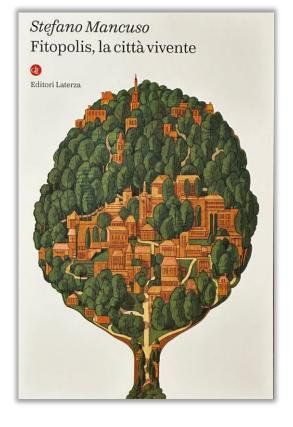
Source: Dempsey & Burton (2012)

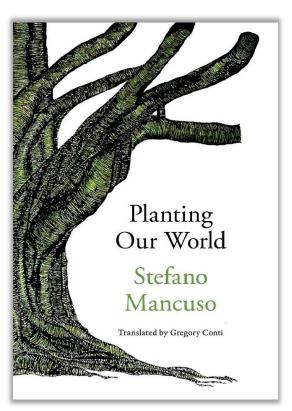
What's Next for Global Municipal and Community Forestry?







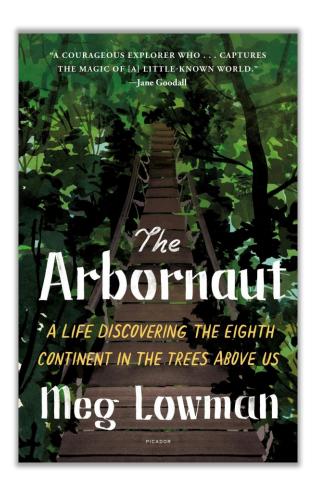




- Structure cities like plants
- Co-habitation with plants and other beings
- Primary thing to do: more trees!
- Tree Streets

Future Role of Urban Foresters & Arborists

- At frontier of (re)connecting people and trees, communities and nature
- Trees as core expertise from individual to tree systems
- Experts in delivery, instilling a sense of realism
- Good practice from tree planting to long-term maintenance
- Knowledge and expertise built up over the years
- Long-term, socio-ecological perspective
- Embracing technology (with care)
- Health care professionals, chief happiness officers, critical infrastructure managers, storytellers, ...























World Green Infrastructure Congress 2024 Auckland, New Zealand











American Planning Association

Creating Great Communities for All





Our chestnut tree is in full blossom. It is covered with leaves and is even more beautiful than last year." – Anne Frank, 13 May 1944



Actions for Trees From new book From Tree Loss to Tree Love

- Learn how to see and appreciate trees
- Enhance tree knowledge and curiosity
- Talk about trees
- Advocate for trees
- Take care of our trees
- Collaborate for trees
- Grieve for our trees
- Celebrate trees



Live with trees, fully!

