

A Forest for our Urban Future:

Governing and Planning for Success in Urban Forestry

Cecil Konijnendijk, professor, Faculty of Forestry

@CecilUforia

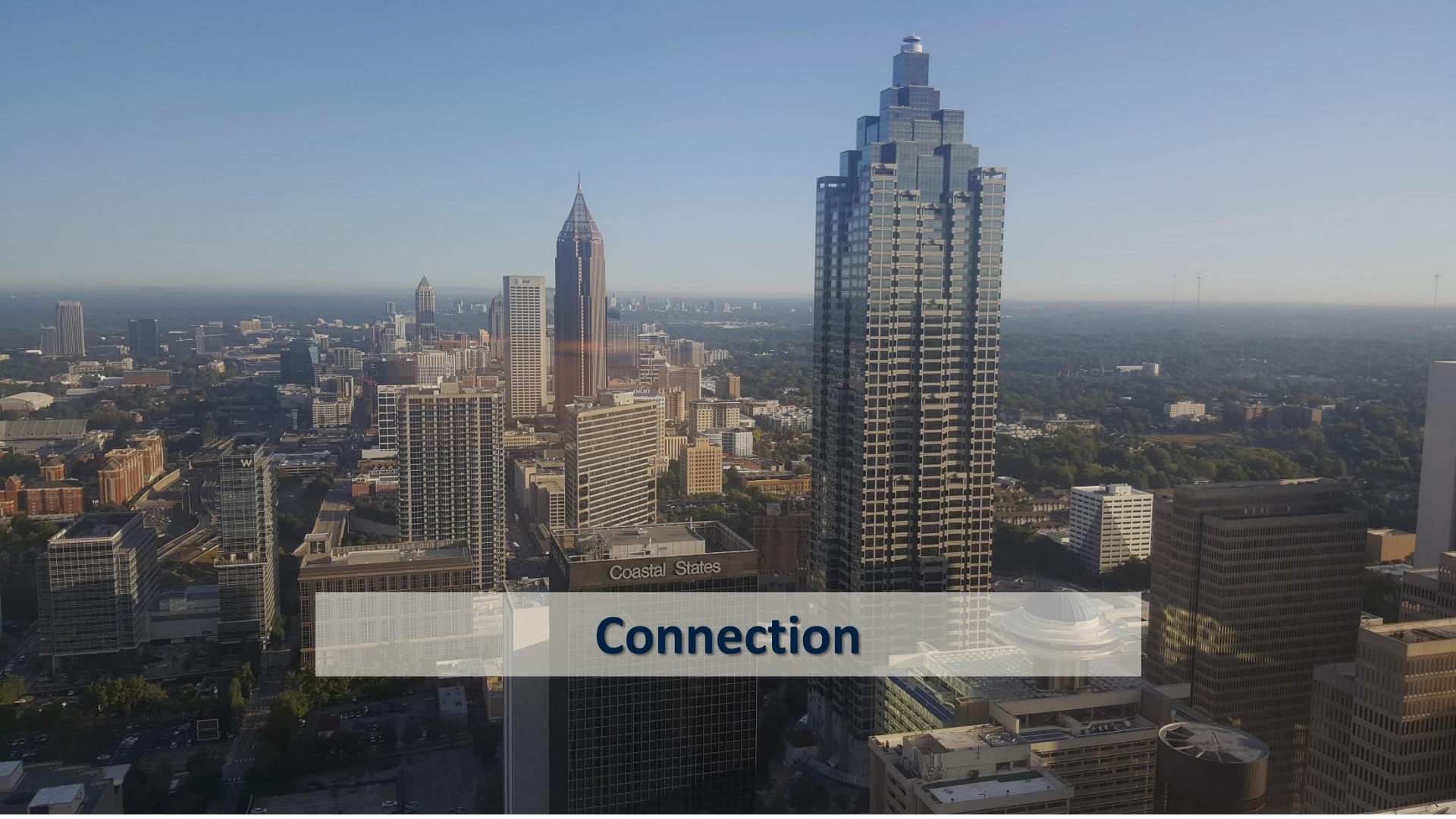


Success Factors – 10 C's



- Connection
- Collaboration
- Community
- Communication
- Clarity
- Competence
- Creativity
- Courage
- Champions
- Cash

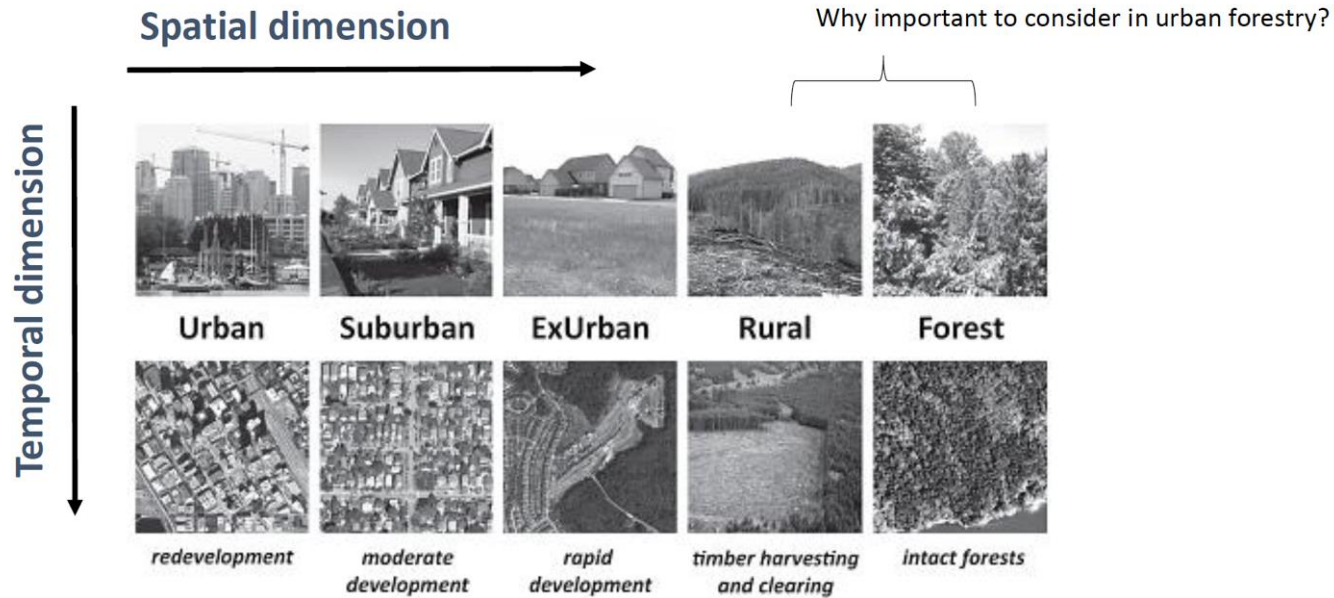




Connection

Coastal States

Urban Forests along the Urbanisation Gradient



Source: Alberti and Hutyrá 2012

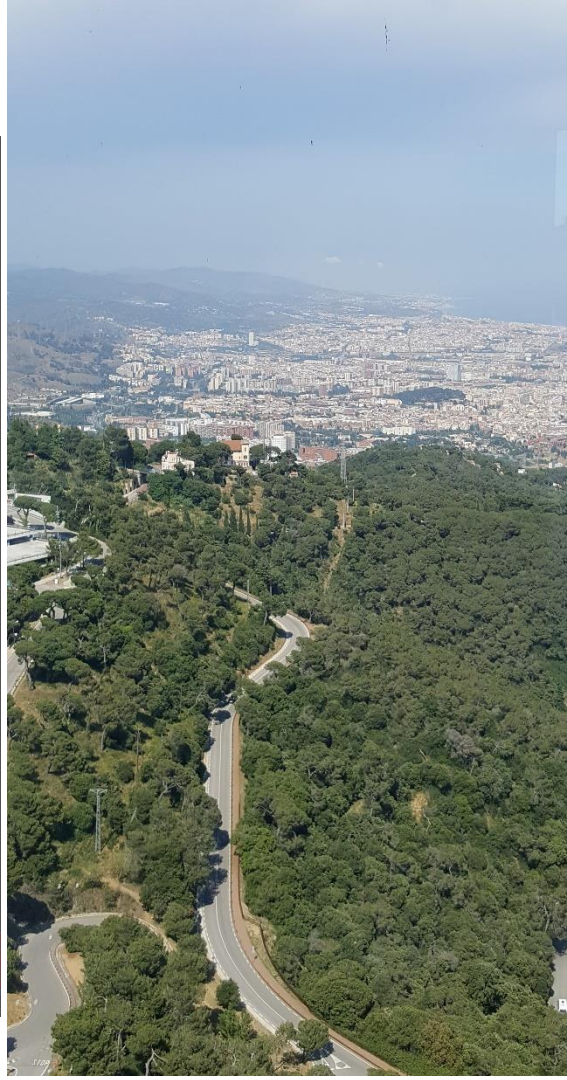


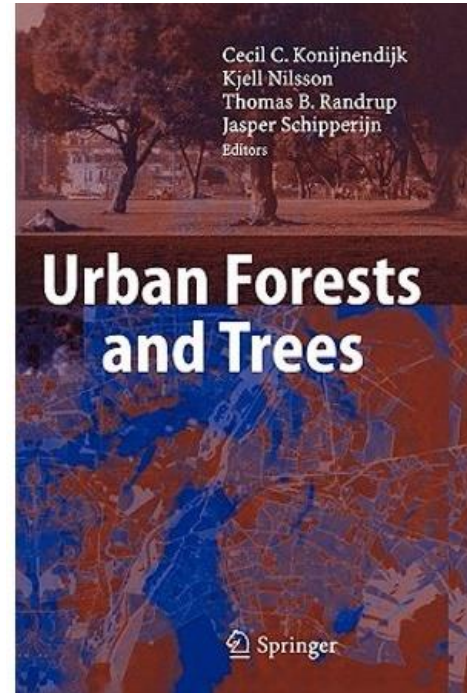
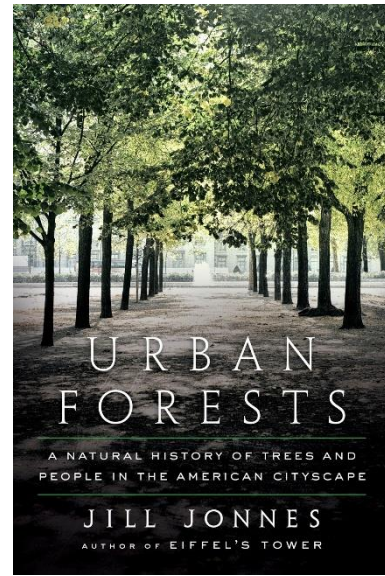
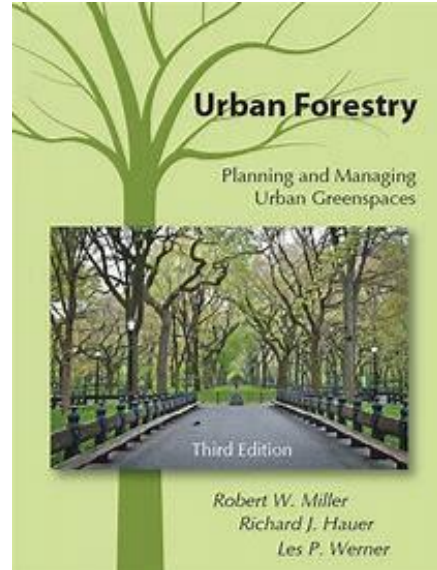
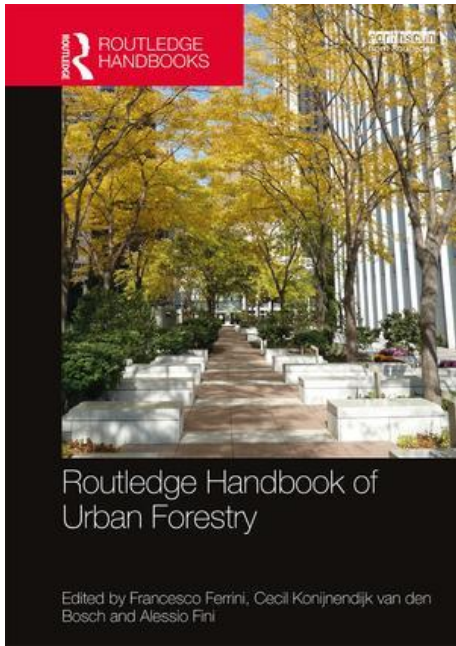
Barcelona green infrastructure and biodiversity plan 2020. Summary

BCN

An architectural rendering of a modern residential or commercial building complex. The buildings feature extensive green roofs and vertical gardens, illustrating the concept of green infrastructure. The scene is set against a bright sky with some clouds.

Ajuntament de Barcelona







Review

The impact of ancient tree form on modern landscape preferences

Joseph B. Townsend^a, Susan Barton

^aPlant and Soil Sciences, Plant and Soil Sciences, University of Delaware, Newark DE 19716, United States



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Modularity
Nostalgia
Stress
Tree climbing

ABSTRACT

Empirical studies of the relationship between aspects of the landscape and human emotion have been fruitful over the last few decades. In fact, we are amass in data that describes a correlation between natural landscapes and positive human feelings. While this plethora of data has been useful to various disciplines, it has not led to an explanatory theory as to why and how the landscape should have this effect. This paper proposes that the discipline of evolutionary psychology provides an explanatory theory. Rather than a broad explanation, evolutionary psychology drills down on ancient problems of survival and relates those problems to contemporary behavior. Our connection to tree canopy is used as an example of this approach.

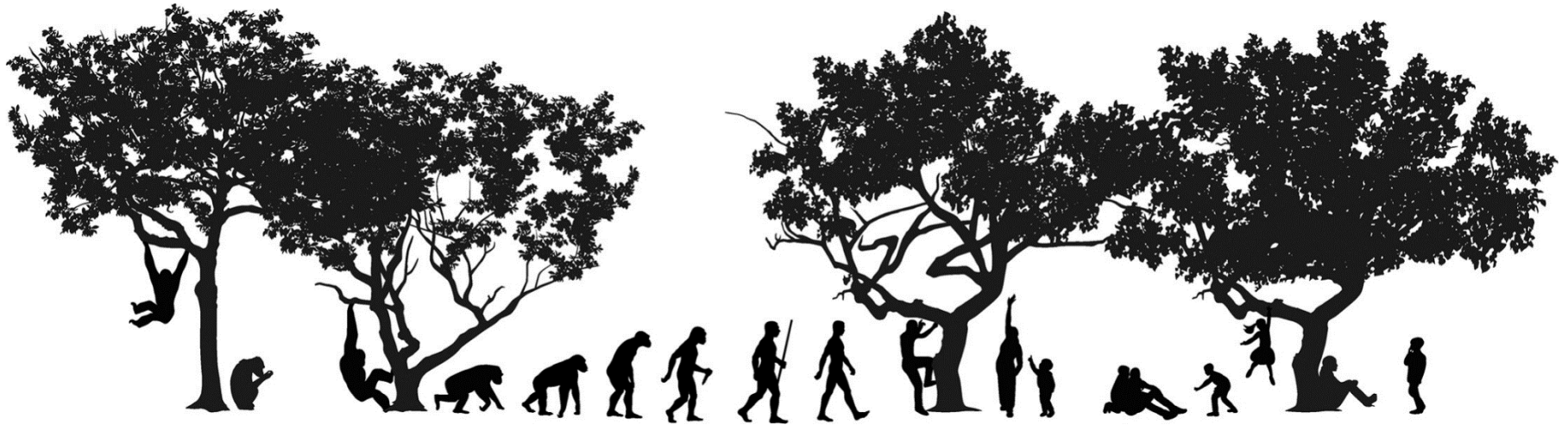
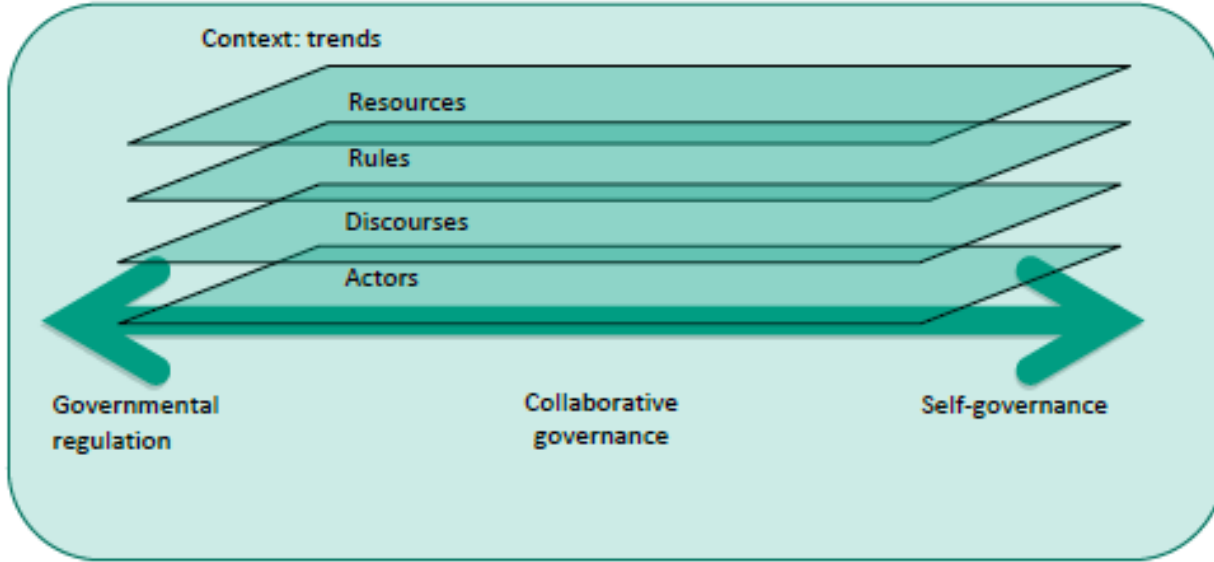


Illustration by Cathy Bedenbaugh, in Townsend and Barton (2018)



Collaboration



Buizer et al. (2015)

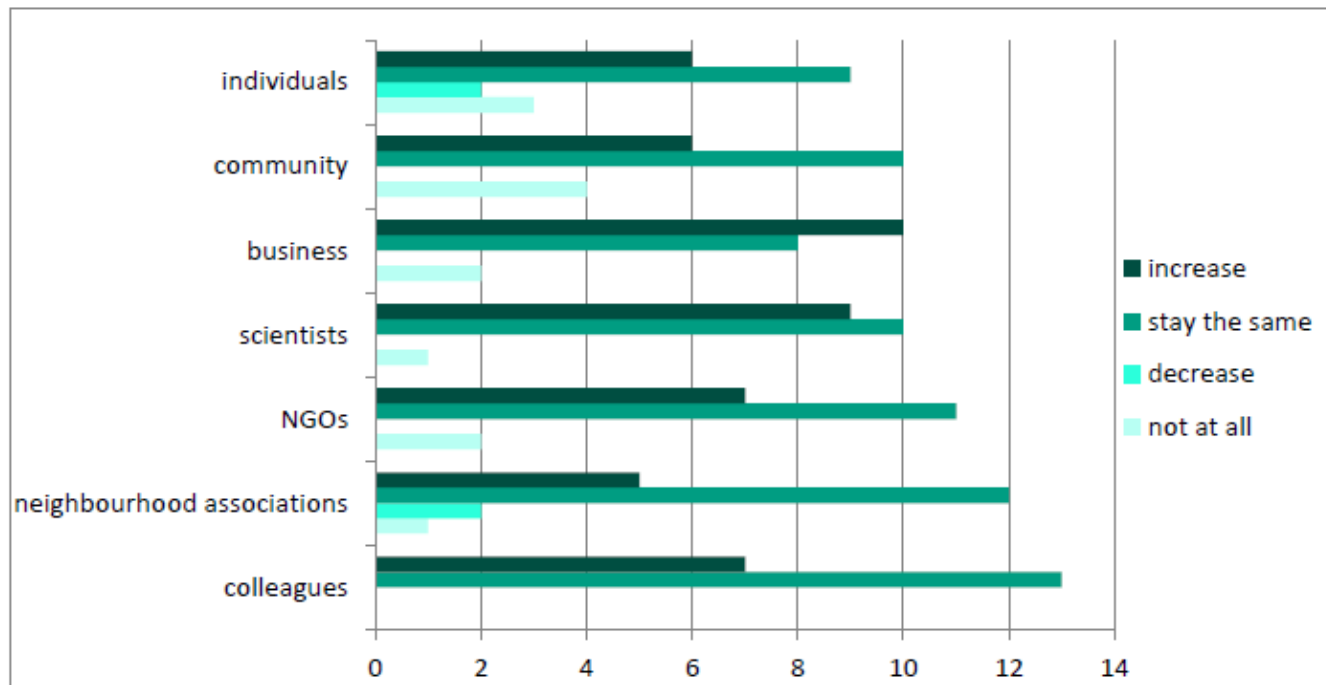
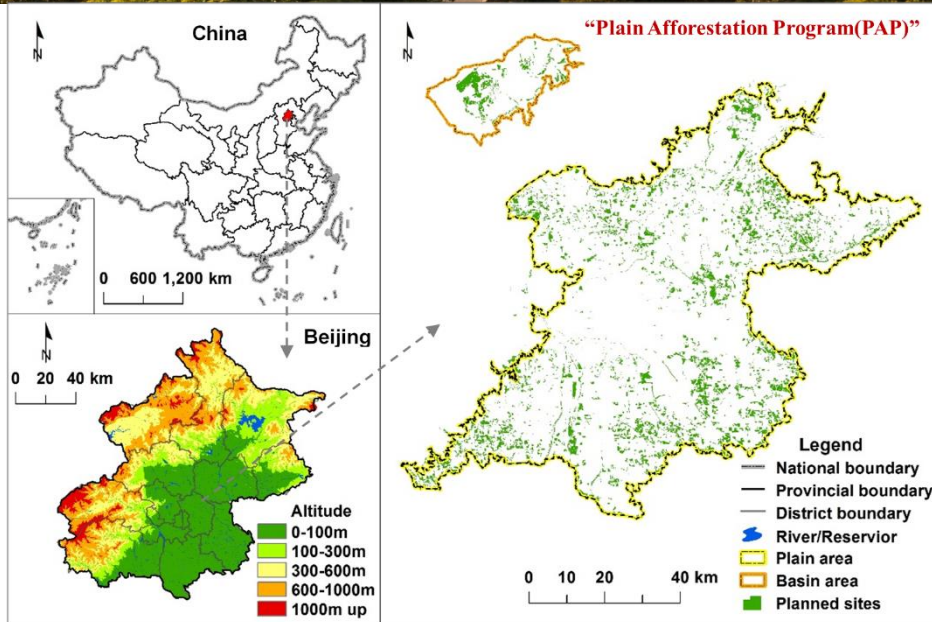


Figure 6.2 Views by city officials (N=20) on future involvement of stakeholders as gauged by of the following question in the questionnaire 'Who should be involved to what intensity in the future?'

Project: Assessment of large-scale urban afforestation

Na (Alice) Yao
Visiting PhD Student



Large-scale Urban Afforestation Program →

- Planning
- Strategic implementation
- Short-term benefits



Actors

1. Central governmental agency for the project

• Lateral

- **Forestry and Parks Bureau; (Lead)**
- Finance Bureau; *(Support)*
- Commission of Development and Reform; *(Support)*
- Commission of Science and Technology; *(Support)*
- Land and Resources Bureau; *(Support)*
- Water Authority; *(Support)*
- Public Security Bureau; *(Coordinate)*
- Agriculture Bureau; *(Coordinate)*
- Environmental Protection Bureau; *(Coordinate)*
- Commission of City planning; *(Coordinate)*
- Commission of Rural Affairs; *(Coordinate)*
- Supervision Bureau; *(Supervise)*
- Audit Bureau; *(Supervise)*

• Vertical

• Top-down four-layer governmental system



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Nature and Public Health



THE ROLE
OF NATURE
IN IMPROVING
THE HEALTH OF
A POPULATION

Matilda van den Bosch
William Bird



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Community



An urban tree conflict in Stockholm



Photo (copyright): Sven-Erik Sjöberg

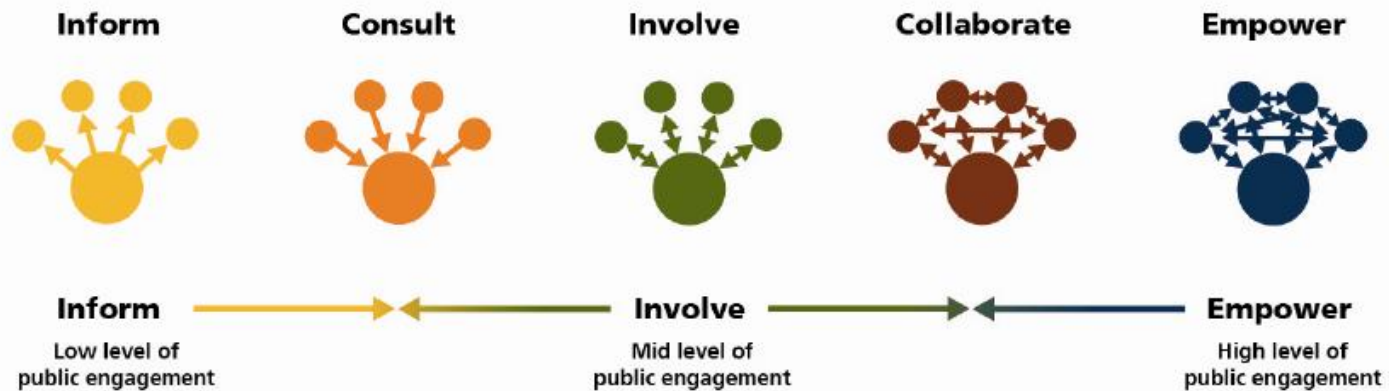


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ćəsnaɾəm
the city before the city



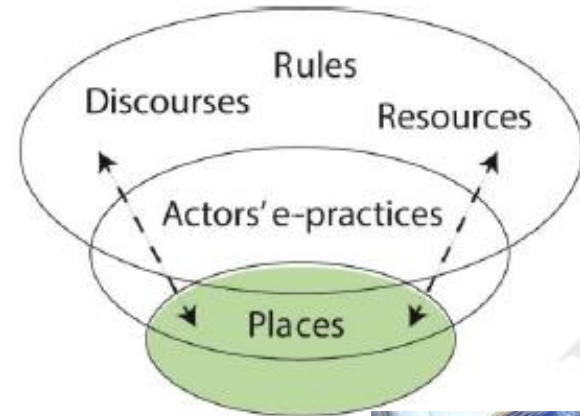
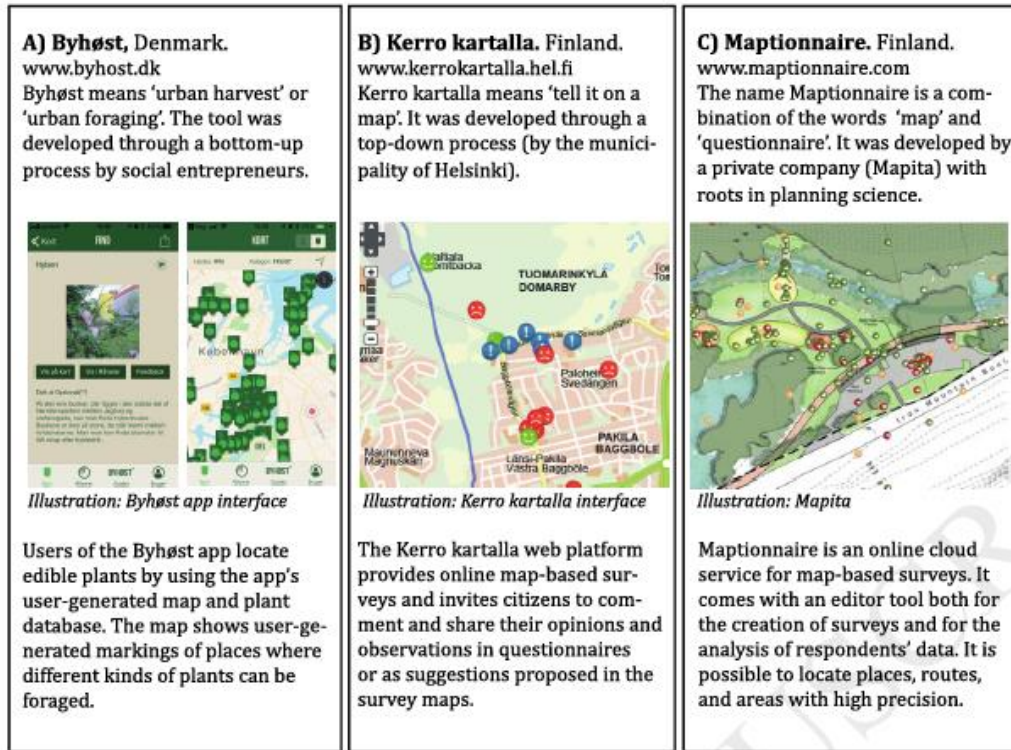


Figure 1. Overview of the three case studies of place-based e-tools (based on interviews and information from the e-tools' web-sites).



Communication



**GREENEST
CITY 2020**

TREE



TREES KEEP US HEALTHY. FOLLOW THESE STEPS



GET MOVING

Inspect trees and shrubs from the bottom up and look for specific problems such as brittle or dead branches, soft or decaying wood, small holes in trunk, or shallow pits in the bark and weak or off-color foliage.



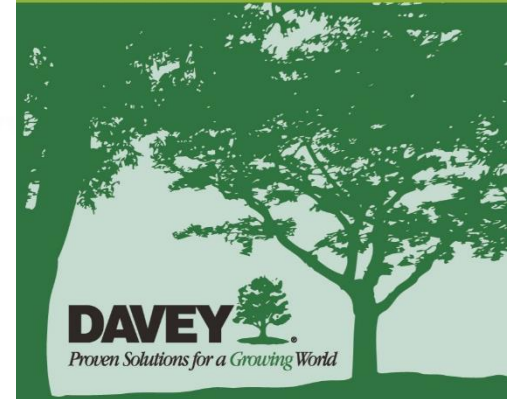
Help your trees stay healthy by releasing fertilizer nutrients and increasing their disease resistance. Fertilize during stressful winter months.

WE NEED MORE TREES TO HANG THE HAMMOCKS

P.O. BOX 1045 6801 BA ARNHEM HOLLAND

Loesje

the American Cancer Society, a reliable means of protection from the effects of the sun's ultraviolet (UV) rays. Just as important as a hat or sunglasses.



DAVEY
Proven Solutions for a Growing World

5. SCHEDULE REGULAR CHECK-UPS



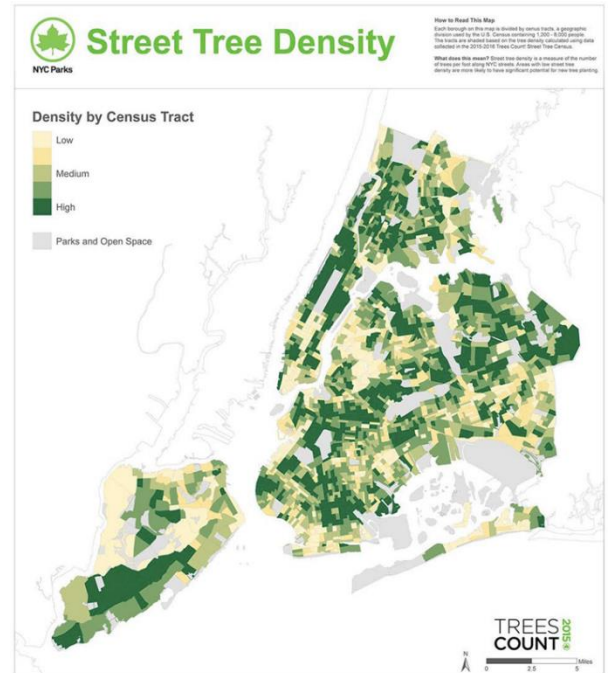
SCHEDULE REGULAR CHECK-UPS

and planning for your trees' future. Schedule a check-up with a certified arborist when you notice a problem with a tree in the

Notice something that worries you? Schedule a check-up with a certified arborist to ensure the best care for your trees.

YOU'RE ONE IN A MILLION

We did it! One million trees for New York City!



Trees and forests

Opinion

Thu 1 Dec 2016 18:51 GMT



814 130

The Guardian view on Sheffield's trees: decline and fall

Editorial

We need greenery to feed the forests of our imaginations. The protests in Sheffield are about saving a community that has become marooned from local decision-making processes by austerity



▲ The British like to romanticise trees: in our stories woods are places of mystery, escape and enchantment. Photograph: Gary Calton for the Observer

Residents of the city of Sheffield are at war with their council over the cutting down of trees. According to protesters, 4,000 have already succumbed since the council signed a contract with Amey, a private contractor commissioned to improve the city's roads. The battle of

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Clarity

URBAN FOREST STRATEGY

2018 UPDATE



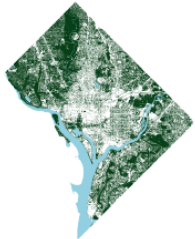


Strengths of Using Canopy Targets

- Simple and powerful narrative / discourse – attractive to e.g. politicians
- Easy to communicate and understand
- Provides common narrative and sense of direction in complex governance situation
- Measurable indicator of success
- Assemble public support and generate action and involvement (e.g. also from business)
- Highlighting the urgency of loss
- Linked to several key ecosystem services – see the iTree approach
- Allows for benchmarking



Current Tree Canopy
38%

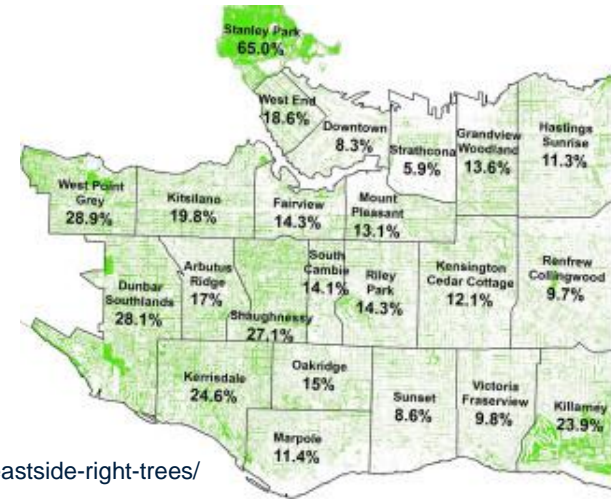


Potential Tree Canopy
55%

Pitfalls when Using Canopy Targets



- Cities and local conditions are very different
- Mostly suitable for some ecosystem services (see e.g. i-Tree)
- Public – private; access
- Quite two-dimensional – how about the ‘on the ground’ experience?
- Quantity over quality – resilience, diversity, functionality
- It’s not only about trees
- Issue of uneven distribution of canopy
- Methodology





AMERICAN FORESTS
- SINCE 1875 -



DONATE

ABOUT US

OUR WORK

GET INVOLVED

BLOG



The reason for that is simple: research no longer supports a universal 40 percent tree canopy recommendation, and neither does American Forests.

By Ian Leahy, *American Forests*, Director of Urban Forest Programs

One of the most frequent questions I receive, as American Forests' Director of Urban Forest Programs, comes from individuals developing tree canopy goals for their jurisdiction or region. They have come across numerous references to American Forests' recommended 40 percent tree canopy goal but cannot find a source citation to include in planning documents.

The reason for that is simple: research no longer supports a universal 40 percent tree canopy recommendation, and neither does American Forests.





Competence

ROLES OF DANISH GREEN SPACE MANAGERS

(NUPPENAU, 2008)

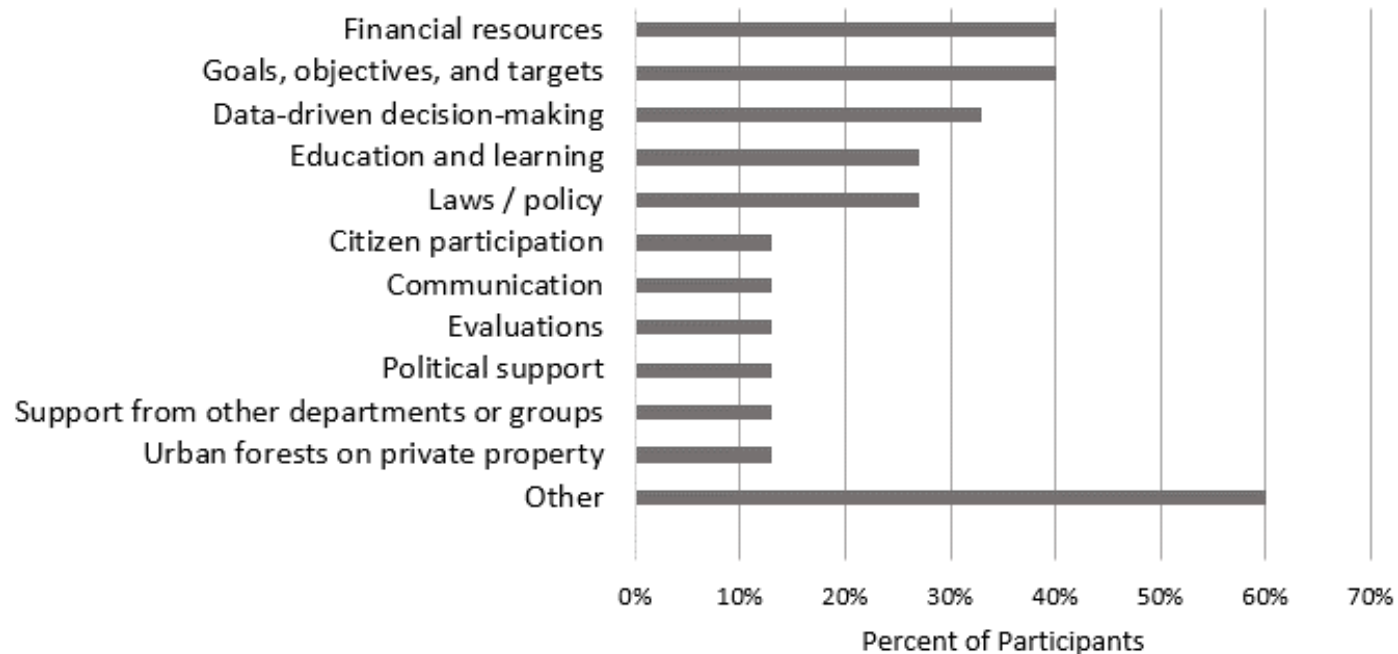
Strategic manager characteristics

- a trained and experienced professional
- ability to develop performance and lead the organisation
- ability to enter the policy process at an early stage (timing) and participate proactively
- a high position within the municipal organisation (status)
- authority in relation to both politicians and the professional organisation (power)





Factors Prioritized by Participants



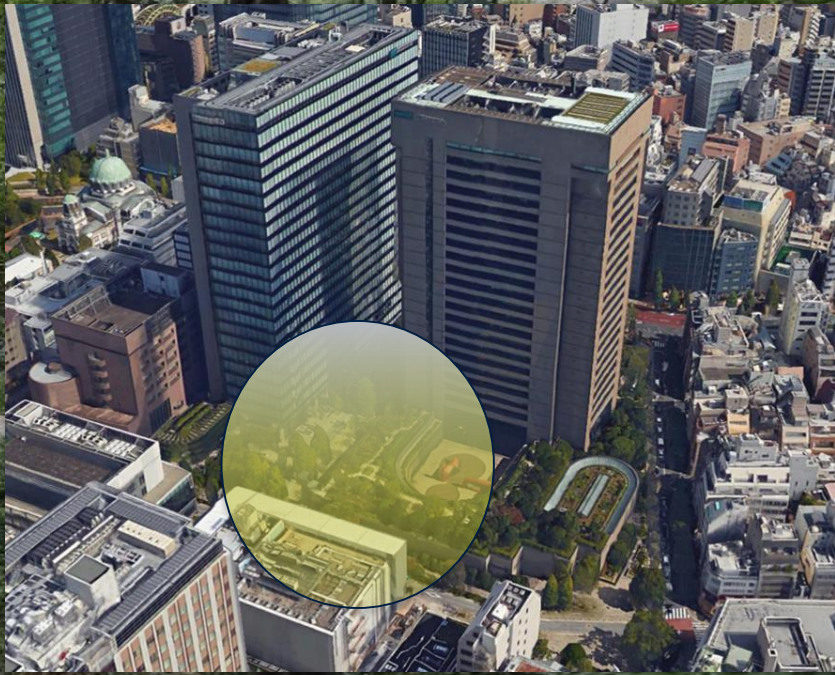
The Internet of Nature: How taking nature online can shape urban ecosystems

Nadinè J Galle,¹ Sophie A Nitowski²
and Francesco Pilla¹





Creativity









Champions









Courage



...the happiness and fulfillment of citizens and residents is important to us. This can only be achieved through promoting physical, psychological and social well-being. At the heart of our vision is a society in which all enjoy a good quality of life, a healthy lifestyle and an attractive living environment.

...we will continue to ensure high quality services such as water, electricity, public transport, and waste management.



Donate to the Red Cross emergency fund to help victims and families affected by the Grenfell Tower fire

DONATE

No thanks

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LONDON ASSEMBLY

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Mayor plans to make London into the world's first National Park City

11 August 2017

The Mayor of London, Sadiq Khan today launched plans to help make the capital the world's first



1500 reasons to move to an electric vehicle

03 August 2017

A major step towards zero carbon transport as 1500 new electric vehicle charging points to be installed across London.





Cash





BRUSSELS
@EESC

INSPIRING
CITIZEN-DRIVEN
ACTIONS FOR
NATURE-BASED
CITIES

FRI - 8
JUNE

#EUGREENWEEK



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Action
Network



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inno4sd.net
Innovation for Sustainable
Development Network




SMR
Sustainable
Management
Research



European Economic and Social Committee

EU GREEN WEEK
GREEN CITIES FOR A GREENER FUTURE
#EUGREENWEEK
23 > 25 May 2018

- 
- An aerial photograph of a city, likely Rio de Janeiro, showing a mix of modern high-rise buildings and older, lower-rise structures with red-tiled roofs. In the background, there are mountains under a blue sky with scattered white clouds. A semi-transparent white rectangular box is overlaid on the center of the image, containing three bullet points in a dark blue, bold font.
- **The 11th ‘C’: Complexity. Urban forestry is complex and often dealing with wicked problems**
 - **The 10 C’s can help – also in balancing long-term vision and short-term actions**
 - **A governance perspective is recommended**