Successful Urban Forestry in Volatile Times



Think Trees, Think Big

CECIL KONIJNENDIJK

UFORIA - URBAN FORESTRY RESEARCH IN ACTION, UBC

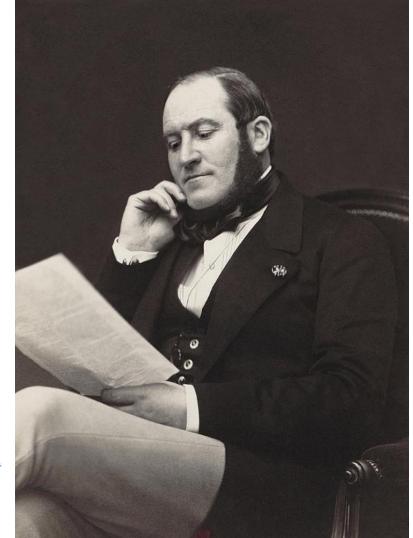
Discussed So Far...

 These are volatile times – and urban forestry and arboriculture are affected by continuous change and uncertainty



- Case 1: dealing with pests and diseases
- Case 2: governance and calamities

Next: what can urban foresters (and associated professionals) do to be successful in volatile times?



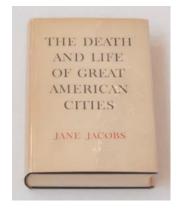
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Jan de Meyere - http://www.stockholmskallan.se/index.php?sokning=2&action=visaPost&foto=true&upphov=Jan+de+Meyere&start=290&mediald=18132&post=294, Public Domain, https://commons.wikimedia.org/w/index.php?*urid=10265838

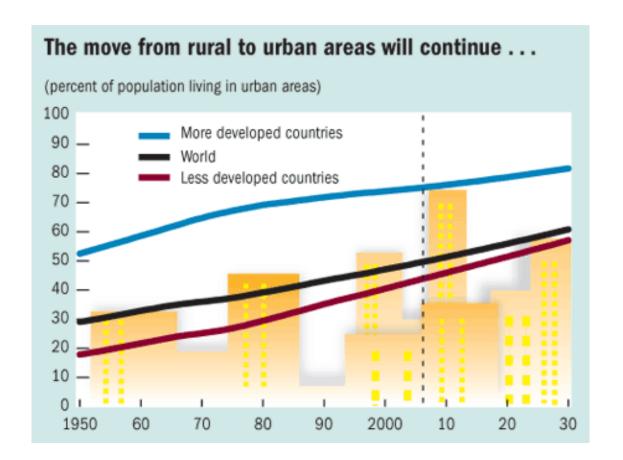
Phil Stanziola - New York World-Telegram and the Sun Newspaper Photograph Collection, Library of Congress, Reproduction Number: LC-USZ-62-137838. Domain, https://commons.wikimedia.org/w/inde x.php?curid=14636401

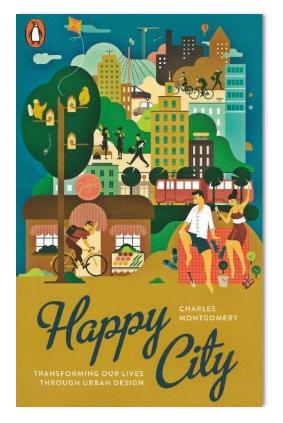


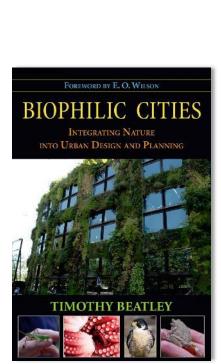


Cities are an immense laboratory of trial and error, failure and success, in city building and city design –

Jane Jacobs (1961)



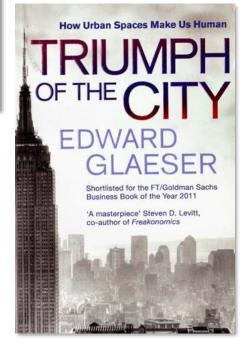


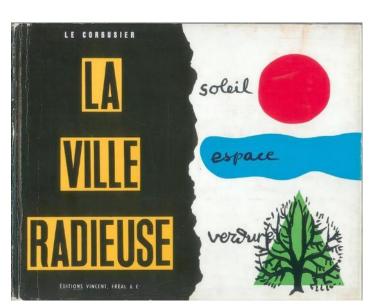


Ebenezer Howard

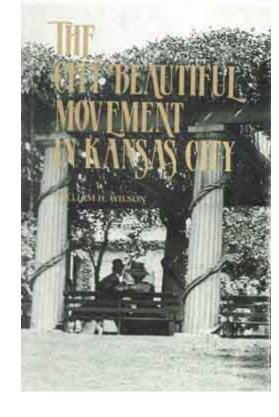
GARDEN CITIES of To-Morrow

edited with a preface by F.J. OSBORN Introductory essay by LEWIS MUMFORD









THE ERA OF FOREST CITIES





China is building a smog-eating 'forest city' filled with tree-covered skyscrapers



The smog levels in the southern Chinese city of Liuzhou are not yet dire, but if the city fails to deal with its pollution, it will only get worse over time.

Leanna Garfield 🖂 💆

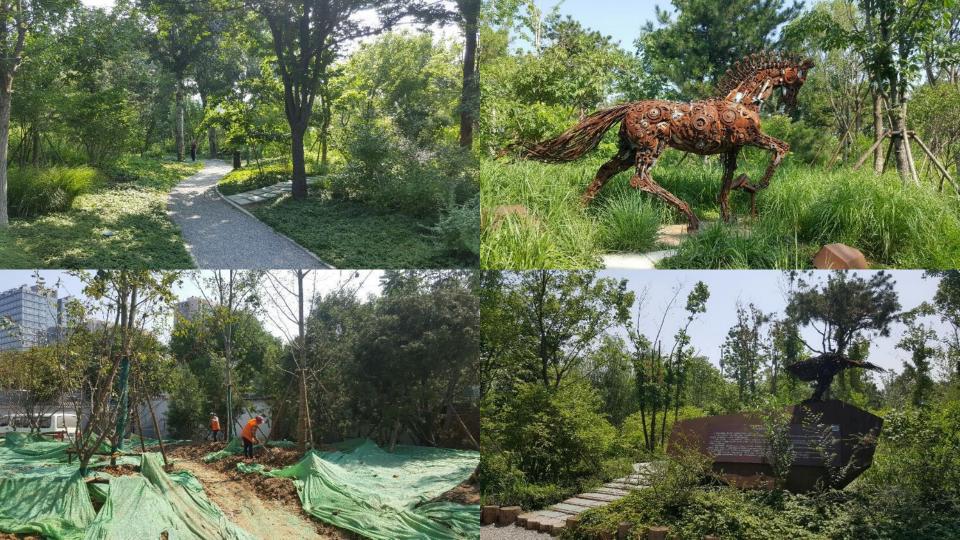
Italian design firm Stefano Boeri Architetti believes that building a





















http://agatheringplacefortulsa.com/

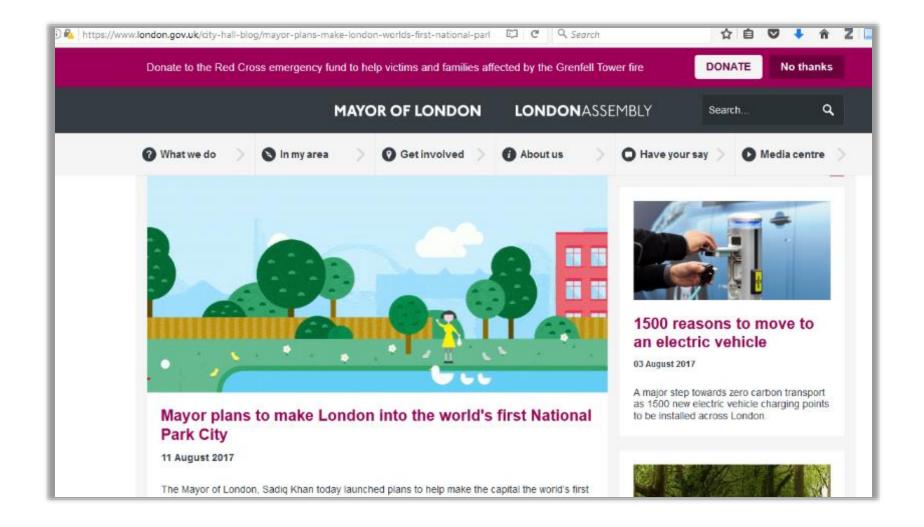




An initiative of the European Commission



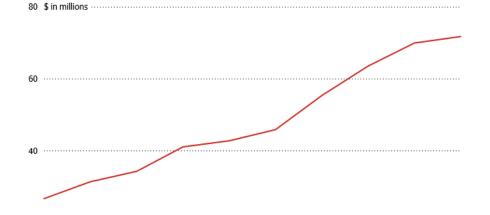






Over the past decade, the city has diverted more resources to urban forestry, with the department's gross operating budget increasing to \$71.8-million this year from \$26.7-million in 2007, with about two-thirds of the current funding going to

maintenance. But millions more are needed to bring the city's tree maintenance in line with its objectives. Gross operating budget for City of Toronto's Urban Forestry department





HOW TO THINK BIG



Resilience

The capacity to recover quickly from difficulties; toughness

and being successful in volatile times?

Key concepts / themes for 'thinking big'

Success Factors – 8 C's



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



Hurray for GI!

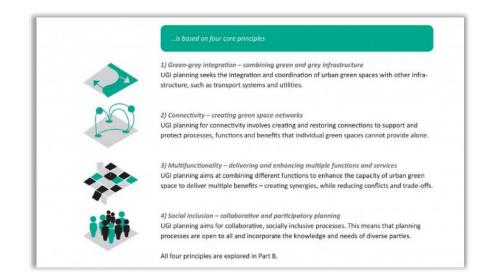
- Bridging between social and ecological systems
- Raising the (political and planning) status of green space and tree issues
- Speaking the "right language"
- Economic and service / value focus
- Linking between town and country

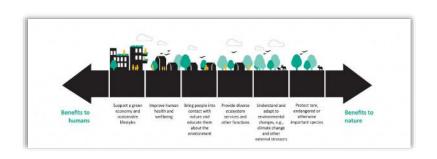
But how about the drawbacks?

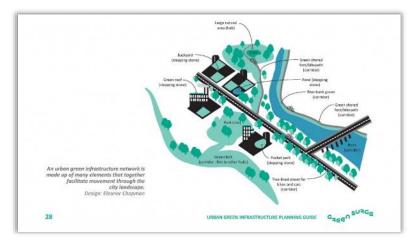


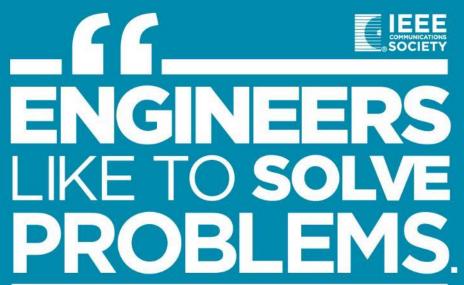










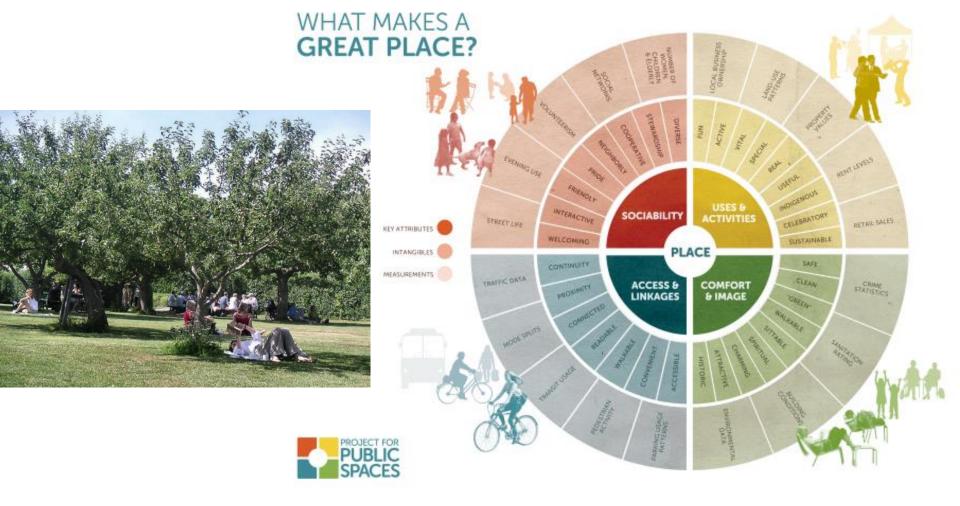




IF THERE ARE NO PROBLEMS HANDILY AVAILABLE,

THEY WILL CREATE THEIR OWN PROBLEMS.

SCOTT ADAMS

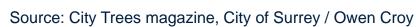




Programs & Events

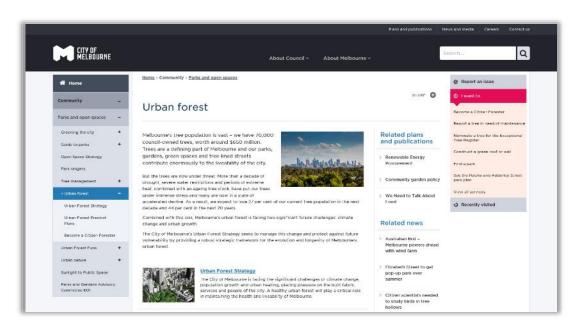
by Owen Croy, Manager of Parks and Mary Rukavina, Special Events Manager, City of Surrey, British Columbia • Photos by R. Chapman















KEEP MELBOURNE LIVEABLE & AFFORDABLE.



THE GREENS.







Urban Forestry & Urban Greening

URBAN FORESTRY BURLAN GREENING

Volume 46, December 2019, 126442

Original article

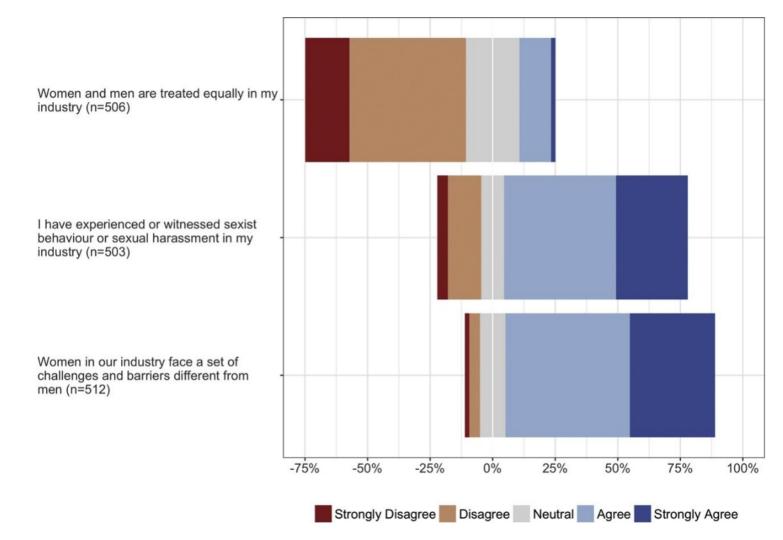
Women in urban forestry and arboriculture: Experiences, barriers and strategies for leadership

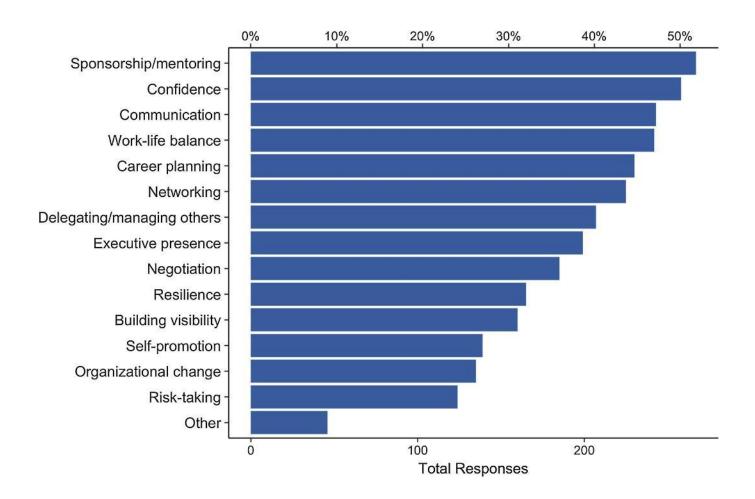
Adrina C. Bardekjian a, Lorien Nesbitt a R M, Cecil C. Konijnendijk a, Barend T. Lötter b

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https://doi.org/10.1016/j.ufug.2019.126442

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be under close scrutiny. Know that and develop confidence in your work interactions. Strive for high quality work--the women who follow you depend on so much on what you do. Whether that is fair, or not. Find a mentor.

Network. Network with women." (#P509)

"Never stop educating yourself. Your work and your looks and behaviour will



Cheongyecheon stream restoration, Seoul







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















Urban forestry champions









 $\underline{\text{http://www.smh.com.au/good-weekend/green-power-nycs-parks-commissioner-on-why-parks-are-essential-20160823-gqytqf.html;}\\$

Photo: Nathaniel Welch

A Few More C's?

- Clearheadedness
- Continuity keep your focus on the longer-term vision
- Coaching
- Celebratetion
- Cash
- •

But be weary of...:

- Cynicism
- Cylinders



4 Key Questions in Strategic Urban Forestry

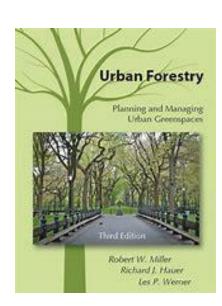


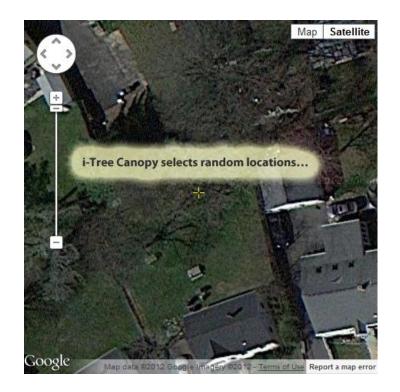
1. What do we have?

2. What do we want?

3. How do we get what we want?

4. How do we know that we have arrived?













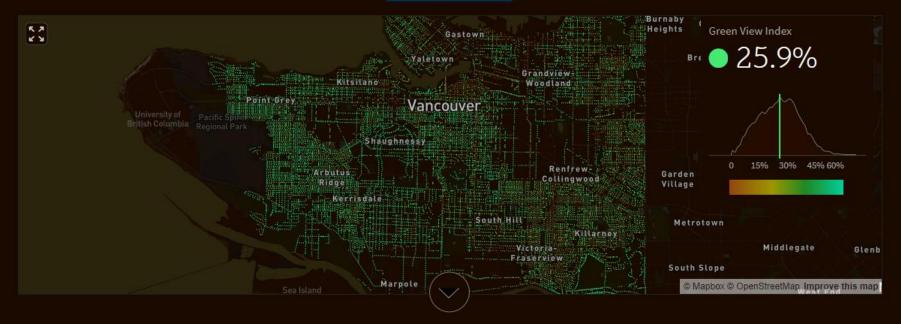
Compare Cities Description





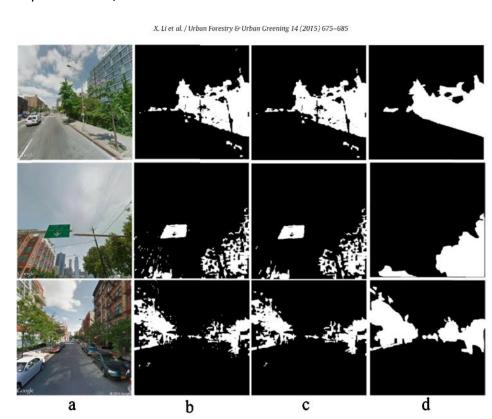
Exploring the Green Canopy in cities around the world

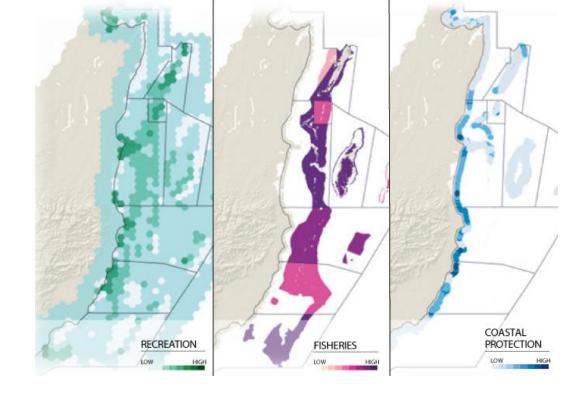
Vancouver



X. Li et al. / Urban Forestry & Urban Greening 14 (2015) 675-685

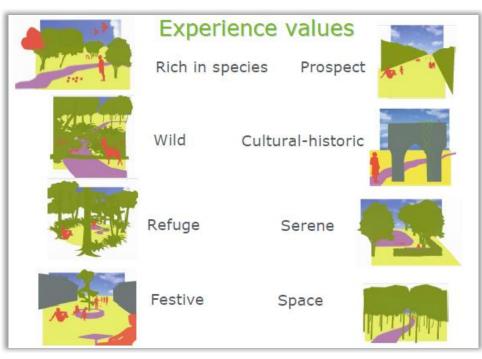
Google Street View (GSV) → Green View Index (GVI) *Treepedia Lab, MIT*



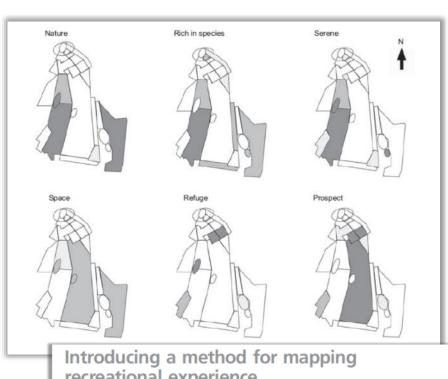




MAPPING EXPERIENCES AND SOCIOTOPES



Based on Randrup et al. (2008)



recreational experience

Andrej Christian Lindholst PhD

Postdoctoral Research Fellow, Forest and Landscape, University of Copenhagen, Copenhagen, Denmark

Nicola Dempsey PhD

Lecturer, Department of Landscape, University of Sheffield, Sheffield, UK

Mel Burton MA, CMLI Research Fellow, Department of Landscape, University of Sheffield,

Sociotope mapping

 exploring public open space and its multiple use values in urban and landscape planning practice

Alexander Ståhle

Nordic Journal of Architectural Research Volume 19, No 4, 2006, 13 pages

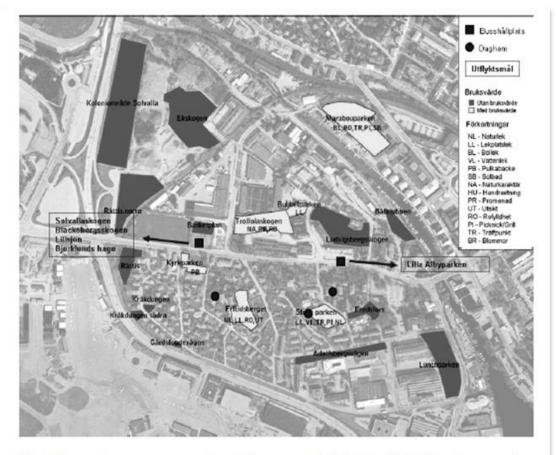


Fig 4. Favourite open spaces for children ages 2-6 in Mariehäll (Stadsbyggnadskontoret 2006).

Visions and Missions

Vision Statement outlines what a company wants to be / aspires to be in the future.



Vision Statement is a source of inspiration and motivation.

Mission Statement concentrates **on the present**; it defines the customer(s), critical processes and it informs you about the **desired level of performance**.

Vision statements - examples

To make people happy



A just world without poverty



To create a better everyday life for the many people



Bring inspiration and innovation to every athlete* in the world



To give people the power to share and make the world more open and connected

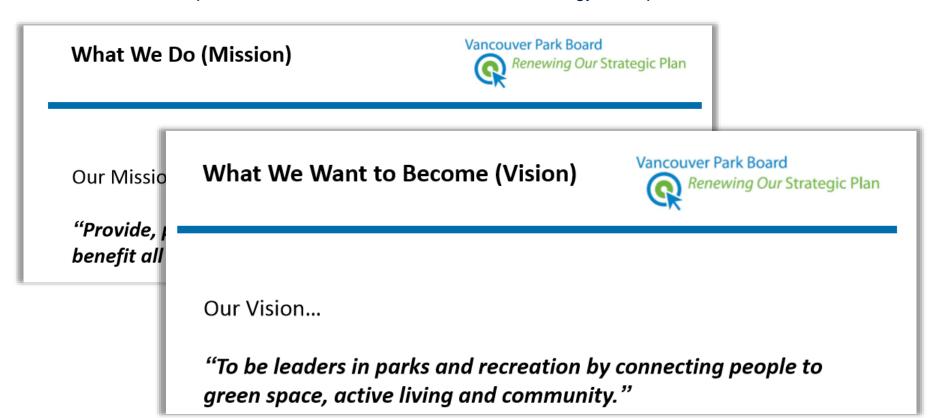


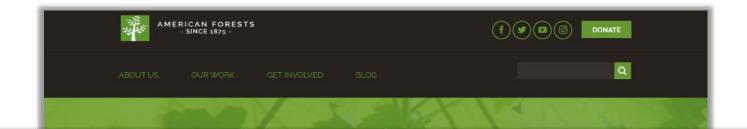


Vancouver's Urban Forest Strategy:

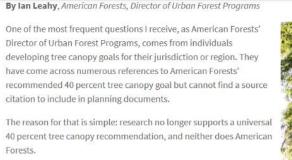
Protect, Plan and Manage

http://vancouver.ca/files/cov/Urban-Forest-Strategy-Draft.pdf





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





Strengths of Using Canopy Targets

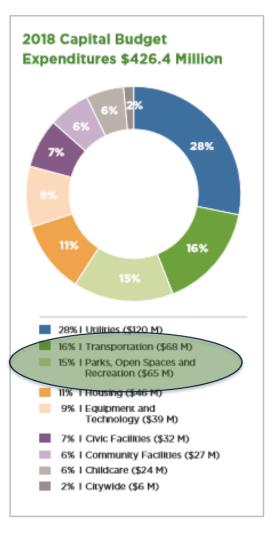


- Simple and powerful narrative / discourse attractive to e.g. politicians
- Easy to communicate and understand
- Provides common narrative and sense of direction in complex governance situation
- Measurable indicator of success
- Assemble public support and generate action and involvement (e.g. also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

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



\$64.7 MILLION IN PARKS, OPEN SPACES AND RECREATION

- New park in Downtown South at Smithe
 & Richards Streets \$5.5 million
- Stanley Park waterfront and seawall upgrade \$3.4 million
- Golf course improvements \$3.5 million
- Riley Park Pavillion and Farmers Market
 \$0.5 million
- Planning and design for a new outdoor pool \$0.8 million
- Planning for renewal of Marpole-Oakridge Community Centre (Total project budget \$2.0 million)
 \$0.6 million
- Renovations and upgrades of 5 park washroom facilities \$2.4 million



Adaptive management (...) is a structured, iterative process of robust decision making in the face of uncertainty, with an aim to reducing uncertainty over time via system monitoring.

Key Ingredients of Adaptive Management

Adaptive Management of Natural Resources:
Theory, Concepts, and
Management Institutions
Graph I Institution States In Technology In Control Institutions

The Control Institution Institut

- Purposefulness and leadership
- Dealing with risk and uncertainty
- Learning (different ways, organisational)
- Increasing knowledge
- Enhancing information flow
- Institutional structures and processes
- Adaptation and flexibility



People First

Worthwhile work

- Knowing we make the world a better place
- Working towards a shared goal
- Values guide all plans, decisions and actions

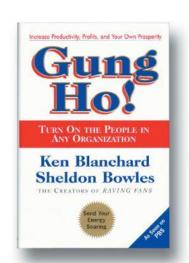
In control of achieving the goal

- A playing field with clearly marked territory
- Thoughts, feelings, needs and dreams are respected
- Able but challenged

Cheering each other on

- Congratulations must be true
- Cheers the progress
- Importance of enthusiasm





Guiding Principles for Monitoring

Urban Tree Monitoring Protocols:

- Keep it simple
- Make it flexible and easily applied by a diversity of users
- Seek input from practitioners
- Answer key research questions
- Promote management objectives





Perspective

- Thriving (and not just surviving) in volatile times is possible for urban forestry
- Capitalise on opportunities and even challenges or threats
- Think like a forester
- Bold visions have to be delivered on the ground tree by tree
- Celebrate successes and make sure people learn about them

