

MANAGING AN URBAN FOREST OF OPINIONS – *NEW GOVERNANCE (MODELS) FOR GREEN INFRASTRUCTURE*

CECIL KONIJNENDIJK, PROFESSOR OF URBAN FORESTRY





0DF4EfNtFy4/UlfRF3nqAil/AAAAAAAAA58/S4qhEsyjHsw/s1600/cartoo

- Changing urban forest governance
- Components of 'good governance'
- Analysing two cases: Melbourne and Vancouver
- Making things even more complicated...

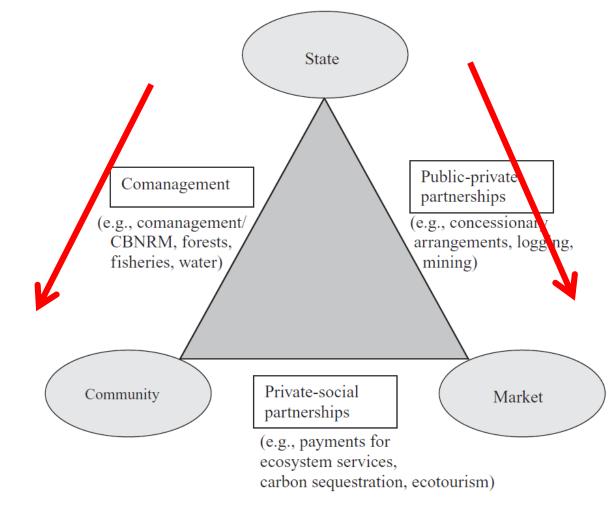
DEFINING 'GOVERNANCE'

- Efforts to direct human action towards common goals, and more formally as the setting, application and enforcement of generally agreed to rules
- Role of non-public actors as becoming more influential over policy
- Governance by / with / without government
- Governance *with* government: boundaries between and within public and private sectors have become blurred



Who decides, who is involved – and who benefits (or looses)?

How is decision-making done?



Slide courtesy of Bas Arts



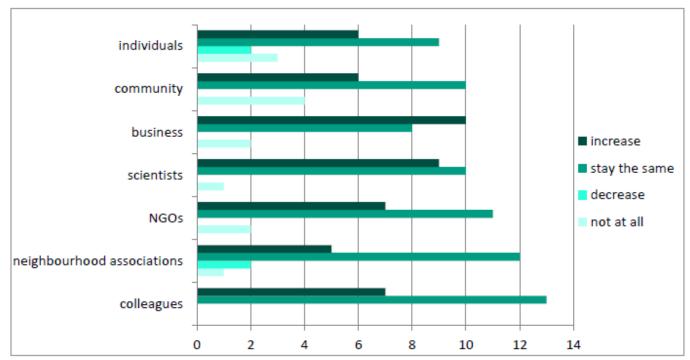


Figure 6.2 Views by city officials (N=20) on future involvement of stakeholders as gauged by of the following question in the questionnaire 'Who should be involved to what intensity in the future?'

Buizer et al. (2015)







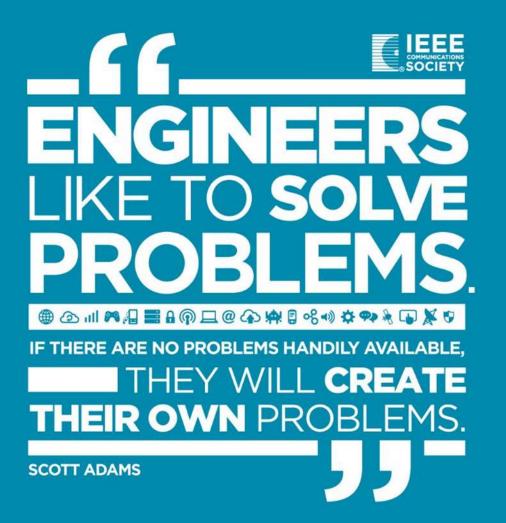
THE AMERICAN INSTITUTE OF ARCHITECTS

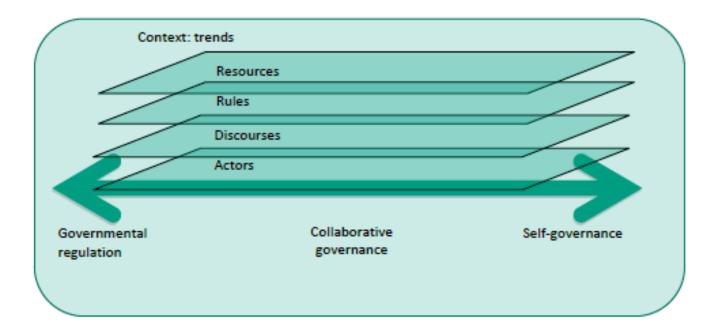


American Planning Association

Making Great Communities Happen









Buizer et al. (2015)

COMPONENTS OF 'GOOD GOVERNANCE' IN URBAN FORESTRY

Discourses:

 Recognition of multiple storylines, agreement on important ones

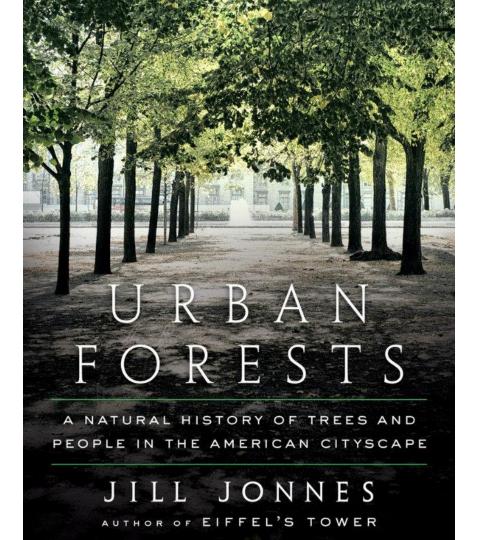
Actors:

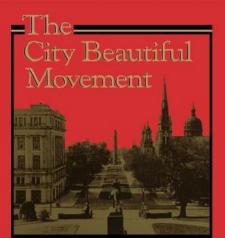
- Inclusiveness, alliances, the role of 'champions' *Rules of the game:*
- Clear and generally agreed to; innovation

Resources:

 Funding, knowledge (including local, traditional), power

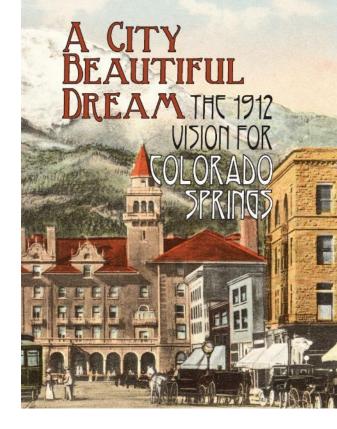


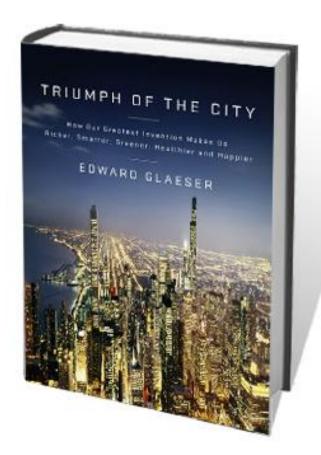




William H. Wilson







Cheongyecheon stream restoration, Seoul



http://landscapeperformance.org/case-study-briefs/cheonggyecheon-stream-restoration



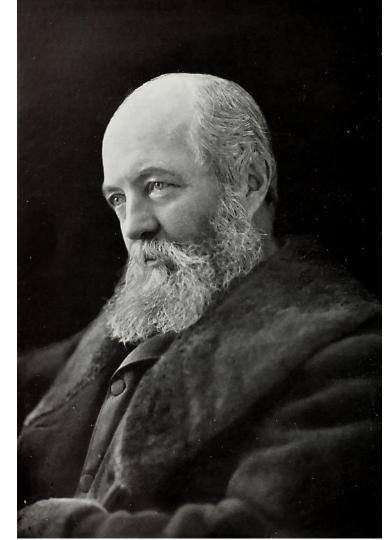








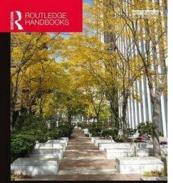
James Notman, Boston; engraving of image later published in *Century Magazine* (source) - The World's Work, 1903: http://archive.org/stream/worldswork06gard# page/3938/mode/2up



•••	GREENS	URGG				
Deliverable 6.2:	INNOVATIVE GOVERNAM URBAN GREEN SPACES Learning from Shi Learning from Shi	NCE OF				
Work Package 6: Partners involved: Researchers:	NEXTORENT CONTINUES. NEXTORENT STATES OF THE ADDA STATES AND ADDA STATES OF THE ADDA STATES AND ADDA STATES A	Typology of governance arrangements				
Eg. Description:		a	Municipalities mobilising social capital	Strategic planning instruments to invite grassroots and individual citizens to participate in place making or place-keeping		
		•	Green hubs	Experimental, creative coalitions connecting various networks and knowledges to develop community based solutions.		
		**	Grassroots initiatives	Relatively small scale initiatives located on public land, started and maintained quite autonomously by local residents.		
		***	Co-governance	Partnerships between municipality and citizens or grassroots with power being between across actors.		
		<u>*1</u>	Organization initiated grassroots	Social enterprises or NGO's mobilising community action, in focus and power located between co-governance and grassroots initiatives.		
		.	Green barters	Maintenance or development obligation for businesses in exchange for a formalised right to use the values of space for business profits.		
Work Package 6: Partners lavolved: Researchers:	<section-header><section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header></section-header>		Municipalities mobilising social capital Green hubs Grassroots initiatives Co-governance Organization initiated grassroots	Strategic planning instruments to invite grassroots and individual citizens to participate in place making or place-keeping Experimental, creative coalitions connecting various networks and knowledges to develop community based solutions. Relatively small scale initiatives located on public land, started an maintained quite autonomously by local residents. Partnerships between municipality and citizens or grassroots with power being between across actors. Social enterprises or NGO's mobilising community action, in focus and power located between co-governance and grassroots initiat Maintenance or development obligation for businesses in exchan		

Buijs et al. (2016) – GREEN SURGE

.

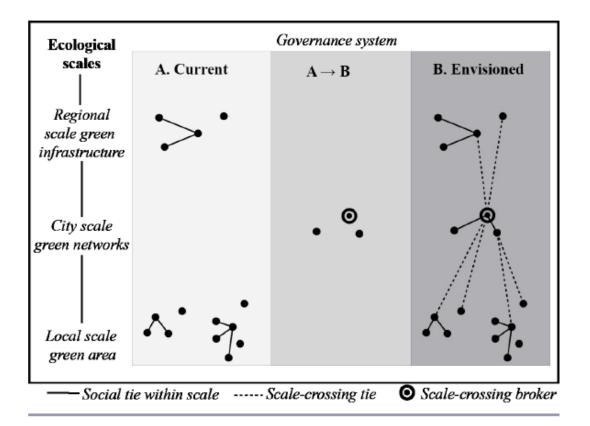


Routledge Handbook of Urban Forestry

Edited by Francesco Ferrini, Cecil Konijnendijk van den Bosch and Alessio Fini Table 15.1 Ideal-typical governance arrangements according to Arnouts et al. (2012).

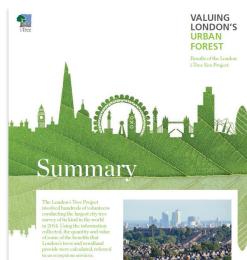
	Hierarchical	Closed co-governance	Open co-governance	Self governance
Actors	Mainly governmental actors	Select mixed group of actors	Large mixed group of actors	Mainly non- governmental actors
Power	With government	Pooled	Diffused	With non- government
Rules	Governmental coercion	Restricted cooperation	Flexible collaboration	Non-governmental forerunning

From: Sheppard et al. (2017) Urban forest governance and community engagement. Chapter 15, Routledge Handbook of Urban Forestry



Research, part of a Special Feature on <u>Social Network Analysis in Natural Resource Governance</u> Scale-Crossing Brokers and Network Governance of Urban Ecosystem Services: The Case of Stockholm

Henrik Ernstson^{1,2}, Stephan Barthel^{2,3}, Erik Andersson^{1,4}, and Sara T. Borgström¹



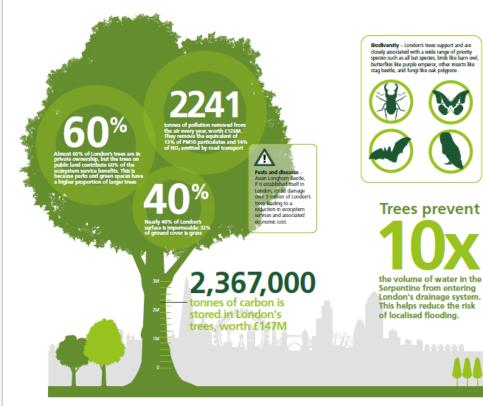


The benefits measured include air pollution removal, reduction of storm water run-off and carbon sequestration.

This leaflet provides just some of the headline information and key messages. For further information – including a breakdown of the trees and associated benefits for both inner and outer London download the full report "Valuing London's Urban Forest" from www.urbantercover.com/condom/condoms/

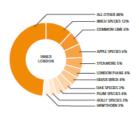
MAYOR OF LONDON

Can Farest Research



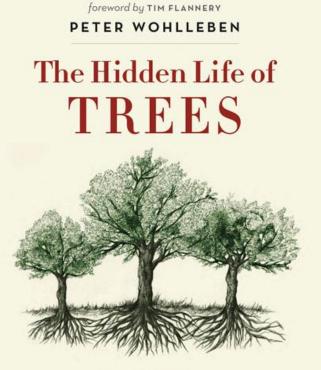
London's trees provide at least £133M of benefits every year in terms of air pollution removal, carbon sequestration and reducing the amount of water going into drains.

8.4 N trees in London









What They Feel, How They Communicate

Discoveries from a Secret World



http://blog.ted.com/forest-for-the-trees-suzanne-simard-at-tedsummit/



http://3.bp.blogspot.com/-B74p9_A6MOg/T6SAgwPDTBI/AAAAAAABSo/jRo_ZQbkCUI/s640/musqueam+ protest+2.jpg



http://www.mediacoop.ca/sites/mediacoop.ca/files2/mc/musquem2.jpg



Urban Forest Strategy for Melbourne, Australia

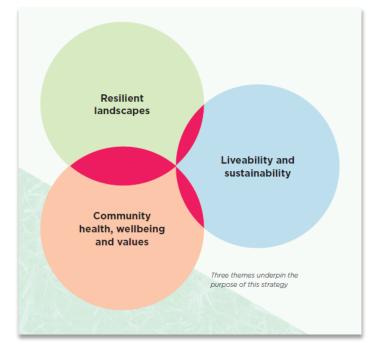
VISION

The City of Melbourne's urban forest will be resilient, healthy and diverse and will contribute to the health and wellbeing of our community and to the creation of a liveable city.

Key challenges

The City of Melbourne is currently facing three significant challenges: **climate change, population growth and urban heating**. These will place significant pressure on the built fabric, services and people of the city. A healthy urban forest will play a critical role in maintaining the health and liveability of Melbourne.

http://www.melbourne.vic.gov.au/SiteCollectionDocuments/urban-forest-strategy.pdf



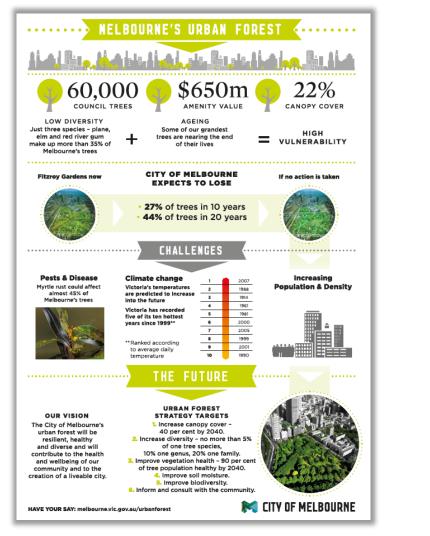






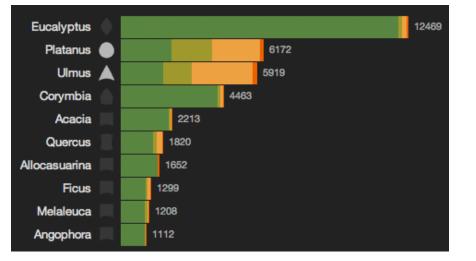






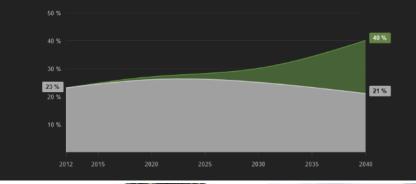






Canopy Will tree canopy increase?

Melbourne's canopy graphed: with & without tree planting





http://melbourneurbanforestvisual.com.au/#mapexplore

ANALYSING THE MELBOURNE

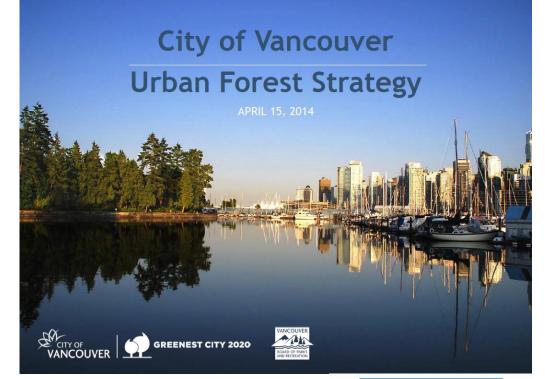
- Strong and supporting discourses: resiliency, quality of life, health
- Champions at different levels
- Strong urban forestry team with clear mandate
- Community engagement
- Use and communication of knowledge







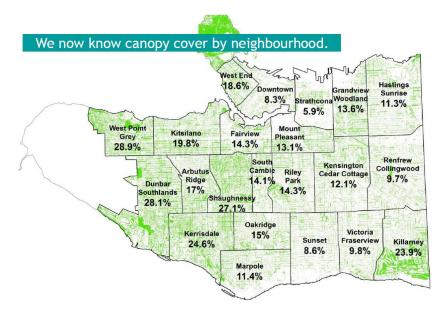






make up what is known as Vancouver's "urban forest"

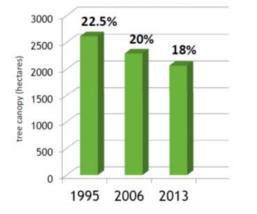


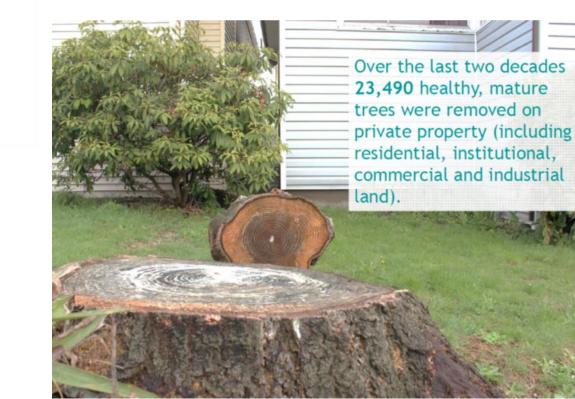


However, our canopy cover has been declining over

the past two decades. Why is this of concern?

City-wide Canopy Cover







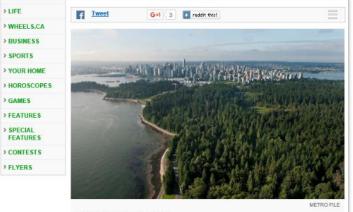
> HOME

NEWS
Vancouver
Canada
World
VIEWS

News / Vancouver

Vancouver ranks highest in tree canopy coverage among world's major cities

> ENTERTAINMENT But densification could threaten the city's urban forest, says one urban forestry expert



A view of Vancouver's Stanley Park.

By: Wanyee Li Metro Published on Wed Jan 04 2017

A new analysis of trees in major cities around the world puts Vancouver at the top of list for the largest green canopy.

Researchers at Massachusetts Institute of Technology used Google Street View to calculate tree canopy from a human point of view, as opposed to the more common way, from a bird's-eye view.

According to the interactive platform, called Treepedia, Vancouver scored 26 per cent – far ahead of Geneva's 21 per cent and neighbouring Seattle's 20 per cent.

Conflicts and competing interests



views



development



infrastructure conflicts



su





News - GTA North York resident wins right to move city-owned tree based on religious belief

Vastu, an ancient Indian system of architecture involving home design, holds that trees shouldn't be planted directly in front of a home's main entrance.



North York resident Sanjeev Joshi says the 17.5-centimetre diameter maple tree in front of his house violates the principles of vastu. (SAMMY HUDES/TORONTO STAR / SAMMY HUDES/TORONTO STAR)

ACTION ITEM 1

Amend Section 4 of the Protection of Trees By-law

CURRENT SECTION 4.5: property owners are able to remove one tree per year regardless of tree health, size or species.

PROPOSED AMENDMENT: trees can be removed only if they meet the criteria in Section 4.4 of the existing By-law:

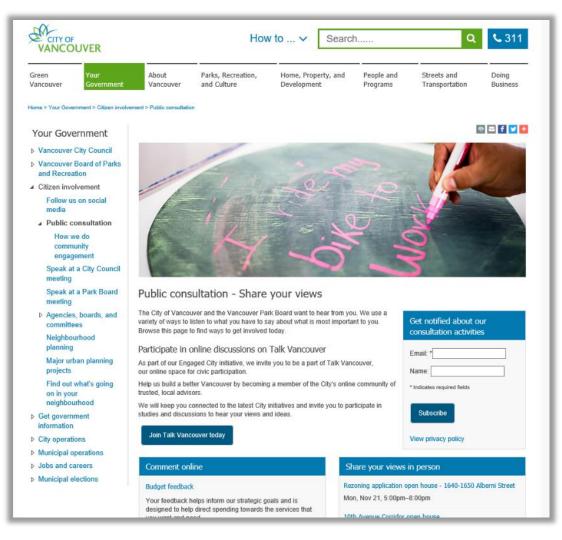
- Hazardous
- Dead, diseased or dying
- Within a building envelope
- Close to or interfering with drainage systems, sewer systems or utility wires
- Causing damage to property including roofs and sidewalks.



Save the from Gregor's axe He is outting the down Join the Raily June 25th 11am Kits Beach githt of the & Conwal Kitsresidents.com

HELP ME!

Save me from Gregor's axe He is cutting me down Join the Rally June 26th 11am Kits Beach @ foot of Yew & Cornwall kitsresidents.com



ANALYSING THE VANCOUVER

- Competing discourses: greening and canopy expansion versus development
- Champions under debate
- Unclear institutional set-up, with e.g., multiple municipal actors
- Rules of the game and legislation
- Lack of information: the privately-owned urban forest



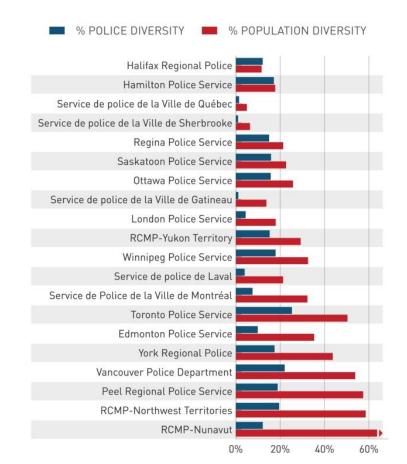






AP Photo/ Kerstin Joensson

How well police forces reflect their communities



http://i.cbc.ca/1.3678145.1 468448246!/fileImage/httpI mage/image.jpg_gen/deriv atives/original_620/policediversity-canada-chart.jpg

Regional Municipality of Wood Buffalo / Wikimedia Commons

> NASA Earth Observatory image by Joshua Stevens, using Landsat data from the U.S. Geological Survey

