Urban Forest Governance



Dealing with Calamities

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Governance broad

"The many ways in which public and private actors from the state, market and/or civil society govern public issues at multiple levels, autonomously or in mutual interaction."



Highlights

- US studies dominate the empirical literature on the views of municipal managers.
- Most studies focus on the operational aspects (e.g., budgets) of urban forestry.
- Management processes (e.g., coordination of actors) are mentioned, but not in depth.
- The studies provide a limited understanding of how municipal managers see governance.
- Future research could focus more on management processes.

Wirtz et al., in revision (Urban Forestry & Urban Greening)

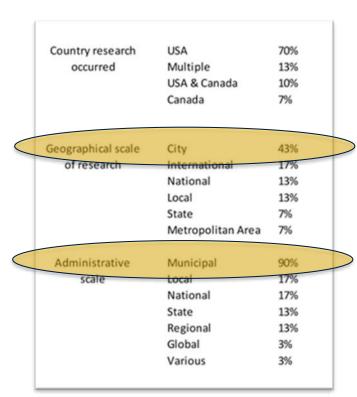
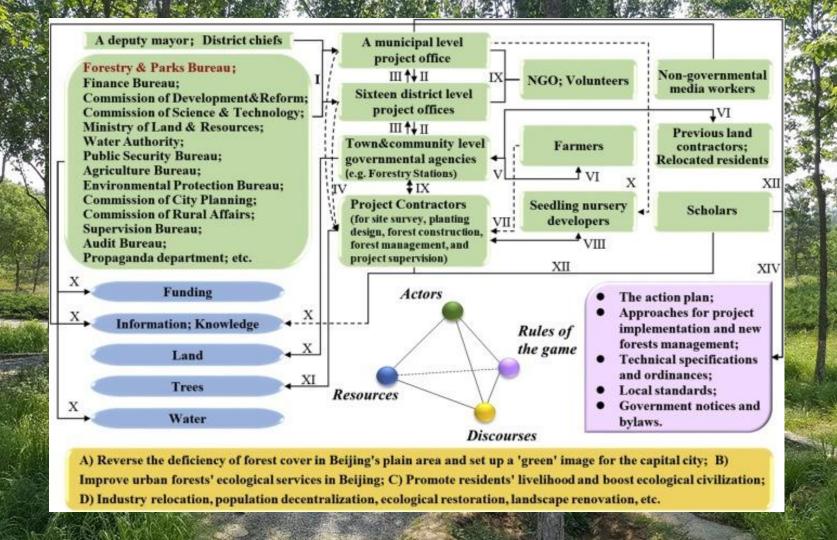
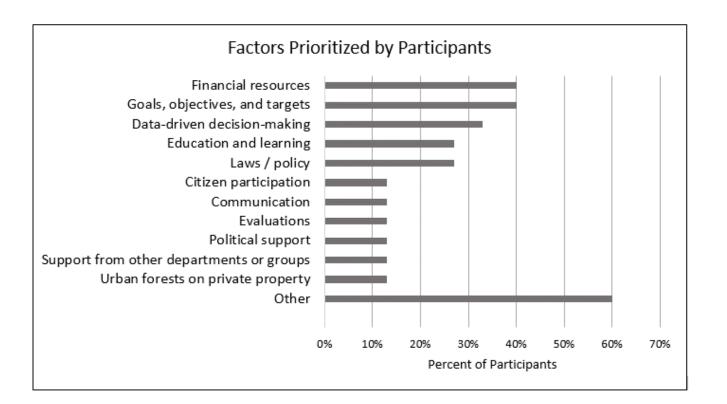


Table 2. Percent of documents per country of origin, researched geographical scale, and administrative scale.



urban forest governance?

How do we assess 'success' in/of







Source: MSc thesis Zach Wirtz, UBC, 2019

Resources	Rules of the game	Discourses	Actors
Financial resources (9.6)	Data-driven decision-making (9.4)	Climate change adaptation and mitigation (8.5)	Citizen participation (8.1)
Community support (8.9)	Goals, objectives, and targets (9.07)	Mitigating negative developmental pressures (8.4)	Broad spectrum of actors (7.7)
Support from other departments or groups (8.7)	Vision (8.9)	Priority given to urban forests (7.9)	Stewardship / non- profit organizations (6.4)

Source: MSc thesis Zach Wirtz, UBC, 2019

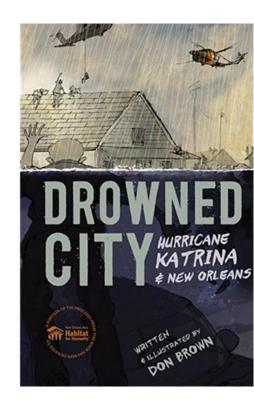
Fig. 1 Pillars and principles of governance Source: FAO, 2011 Accountability **Effectiveness Efficiency** Policy, legal Planning and **Implementation** Institutional decision-making enforcement and and compliance processes regulatory Fairness/Equity frameworks **Participation** Transparency Slide courtesy of Bas Arts

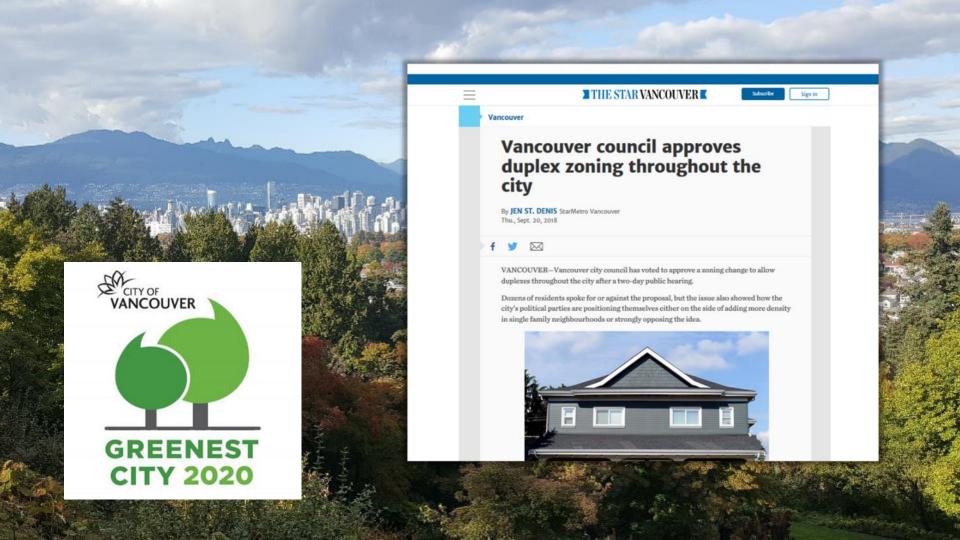
A Few More Thoughts on Disturbance

Scale and impact of ecological disturbances can differ widely

 Disturbances impact ecosystems, urban forests – but also humans and communities

 Calamities: an event causing great and often sudden damage or distress; a disaster (Oxford Online Dictionary)



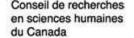


Urban Forest Governance in Canadian Cities



- Analysing urban forest governance in 4 Canadian cities
- Identifying factors impacting success
- Special focus on 'urban forest calamities'
- Shifting governance models/arrangements, changing governance dimensions





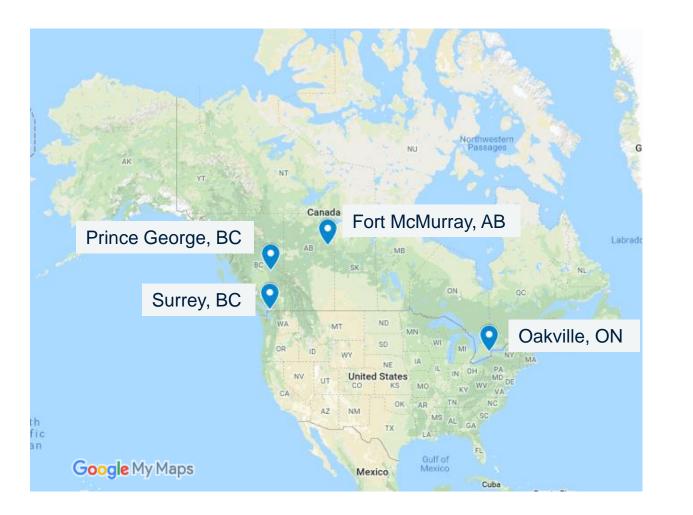


Method

- 4 Canadian cities (2 suburban, 2 interior)
- Interviews, policy analysis, focus groups

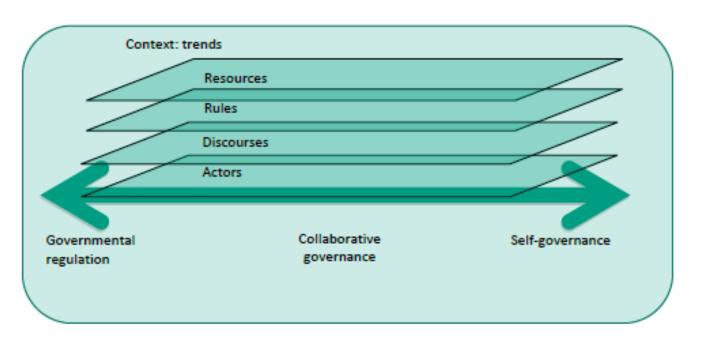


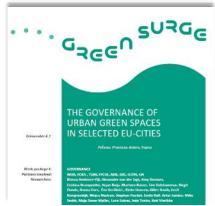
- 32 semi-structured interviews with local governance actors (7+ per city)
- Questions on:
 - The role of urban forestry in the city
 - Urban forest governance at different levels
 - Urban forest calamities: e.g. preparedness, response/changes
- Transcribing and coding, e.g. using Policy Arrangement Approach



helps us manage calamities?

How do we build urban forest governance that







- Policy arrangement: temporary stabilisation of the content and organisation of a particular policy domain
- Governance mode: the organisational component of a policy arrangement

	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

Results - Discourses

• Surrey: rapid urban development, environmental quality & conservation



Oakville: rapid urban development, 'our solution to pollution', Emerald Ash Borer (and other pests)

- Fort McMurray: economic development and community building, forest fires
- Prince George: mountain pine beetle (previously), commercial forestry focus –
 awareness of other pests and wildfires

Italics mark an urban forest calamity as identified by the interviewees.

Population Estimates (2007 to 2017) 160,000 Newton 140,000 120,000 Whalley (Including the City Centre) 100,000 South Surrey Population Cloverdale 80,000 Guildford 60,000 40,000 City Centre Component 20,000

2007

SURREY

2008

2009

2010

2011

2012

2013

2014



2015 2016 2017







Results – Actors and Alliances

- Surrey: expanding urban forestry team, advisory boards, role of local citizen groups
- Oakville: expanding urban forestry team, Oakville Green, mayor (and local consultants)



- Fort McMurray: expanding urban forestry team, fire department (and province)
- Prince George: (small) urban forestry team (and contractors & others during pest infestation)

Important role of champions for urban forestry in both Surrey and Oakville



Rob Burton, Oakville

https://oakvillenews.org/town-launches-2015-canopy-conservation-program-during-emerald-ash-borer-awareness-week-june-1-7/



Results - Resources

• Surrey: funding through e.g. development compensation fund, link to research



- Oakville: i-Tree assessment, information management, new emergency portal, funding for backyard planting
- Fort McMurray: FireSmart program, highly trained staff
- Prince George: integrated pest management strategy (but hardly mentioned),
 specific measures during pest outbreak

Results - Rules of the Game

Surrey: new rules for developers (and compensation), role of advisory boards,
 urban forestry staff in other departments



- Oakville: changes in urban forestry organisation, collaboration with not-forprofits, collaboration with province
- Fort McMurray: collaboration with province
- Prince George: pest management strategy

Outputs and Outcomes

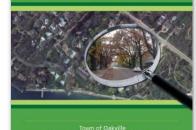
 Surrey: suite of plans, but no comprehensive urban forest strategy yet; hard to maintain canopy, general appreciation of urban forests



 Oakville: second iteration of urban forest strategy being developed; tree planting campaign to maintain and enhance canopy

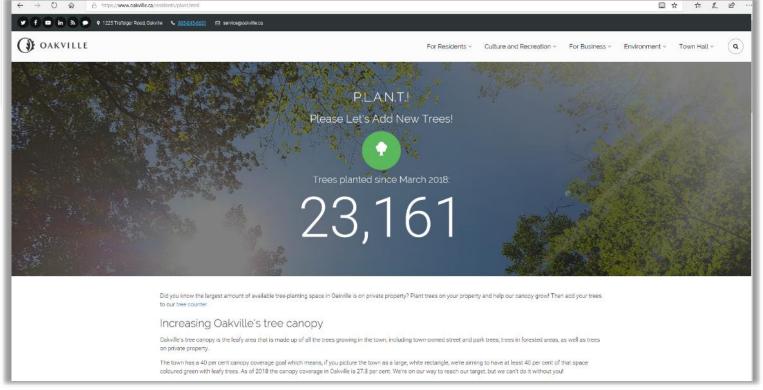
- Fort McMurray: urban forest strategy close to approval
- Prince George: integrated pest management strategy





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Governance Arrangements

Both 'closed' and 'open' co-governance arrangements in place



 Some shifts in e.g. the actors and partnerships involved – moving towards more open co-governance in especially Oakville and Surrey

- Some of the shifts seem to have been more temporary (e.g. Prince George)
- Oakville and Surrey had already changed their governance arrangement before calamities hit

