Cities 4 Forests

Statnable Wood for Cities

A guide for cities using wood in service of their broader sustainability goals

WOOD at WORK 2020

Elegant Strategies for Architecture, City-Building, and Forest Conservation

What is sustainable wood look like?







Where does sustainable wood come from?







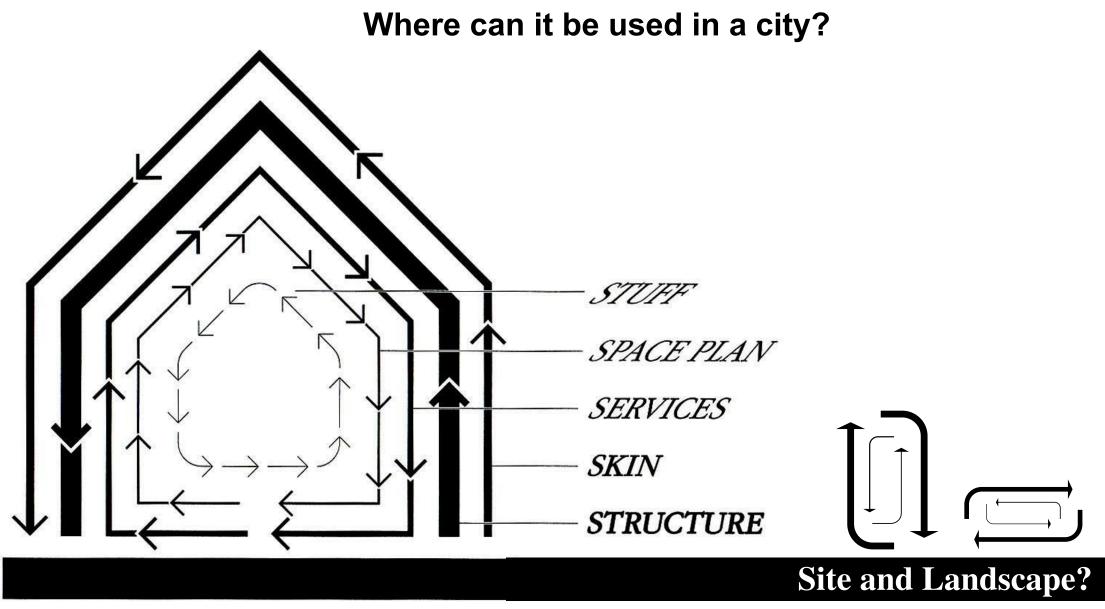
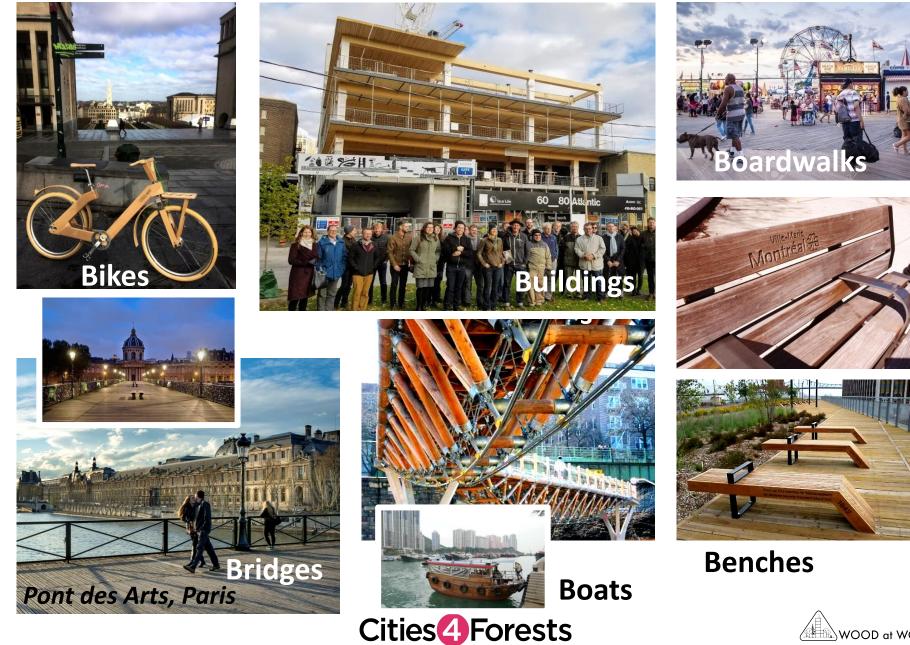


Illustration from How Buildings Learn, Stuart Brand





And how and where can cities specify it?







Sustainable Wood for Cities Guide

Providing cities with expert guidance on reducing their impact on global forests through promoting sustainable and responsible wood sourcing and procurement.



Highlights

- What cities need to know about sustainable forestry
- Integrating sustainable procurement with competitive bidding processes
- Resources for initiating pilot projects
- International case studies
- And much more!



Cities 4 Forests

Related initiatives

Forest Footprint For Cities

An interface allowing cities and urban residents to estimate the impacts of consumption commodities directly responsible for tropical deforestation.



FOREST FOOTPRINT		NATIONAL POP.	CITY	REA (h	a) CITY POI	P.	1.1499	m2 PER CAPITA	= 1.8251	vs. GLOBAL AVG	DOMESTIC DEI	E. CO2e	FROM DEF.
MEXICO CITY		126190788		148,50	0 878130	0		FOOTPRINT	= 16026.7	159%	139351.8		0.0
		Consumption				Global Deforestation Impact		Other Metrics					
Commodity	Description	Global (T per cap.)	National	() conversion	Urban (T per cap.)	conversion	Member City (T per cap.)	Forest Impact Factor (ha/T)	Global Deforestation (ha per cap)	Member City Consumption % diff. from Global Average	Domestic Deforestation (ha per cap)	Carbon emissions from Deforestation	Avoided carbon sequestration fror deforestation
Soy	Food, feeds	0.04621	0.038	9 1	0.03829	1	0.03829	0.00111	0.000042	83%	0.000006		
Palm Oil	Food, fuel	0.00841	0.003	2	0.00451	1	0.00451	0.00693	0.000058	54%	0.000001		
Beef	Meat, other products?	0.00868	0.022	2	0.03299		0.09549	0.03337	0.001101	380%	0.002745		
Wood Fibre	Wood for construction, fuelwood, paper	0.27579	0.064	2	0.18824		0.20338	0.00039	0.000152	74%	0.000062		
Hotspot Crops	Rubber, cocoa, coffee, others	0.29561	0.003	B 1	0.00368	1	0.00368	0.00010	0.000000	1%	0.000008		
Other Crops	Includes treenuts, pulses, fibre crops, oilseeds, rice, other cereals, roots & tubers, fruits, vegetables, & crops nec	0.82329	0.175	7 1	0.17537	1	0.17537	0.00018	0.000032	21%	0.012608		
Other Deforestation	Deforestation not otherwise categorized, attributed on a per-capita basis		1 -	1		1			0.000439	100%	0.000439		
CDMX Glob Other Deforestation 24.1% Other Crops Talk Mode Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops Other Crops	Dal Deforestation Footprint	Patm Oil 3.2% Beef 60.3%		Defores	I vs. Dome ation (ha per cap) Global Deforesta	tion (ha		Q.'					

#Cities4Forests

CITY

POPULATION

AREA



Related initiatives

Partner Forest Program

An opportunity for cities to fight climate change, preserve global biodiversity, innovate new business models and bridge the rural-urban divide by partnering with tropical forests around the world.



PARTNER FOREST PROGRAM

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An opportunity for cities to fight climate change, preserve global biodiversity, innovate new business models and bridge the rural-urban divide by partnering with tropical forests around the world.





• Timber

- Rubber
- Cacao
- Coffee
- Ecotourism
- Research



What is the Sustainable Wood for Cities Guide?

- A framework to help city leaders define sustainability wood on their own terms, with a focus on climate, biodiversity, health, and economic goals.
- Eight Pathways for sustainable wood sourcing which can combine to form a broader wood sourcing Strategy.
- A voluntary evaluation system that can help cities better understand, prioritize and track the benefits and impacts of their sustainable wood strategy.
- A process for cities and their partners to build internal capacity, and guide new policies for municipal procurement, specification templates, and contracting requirements.

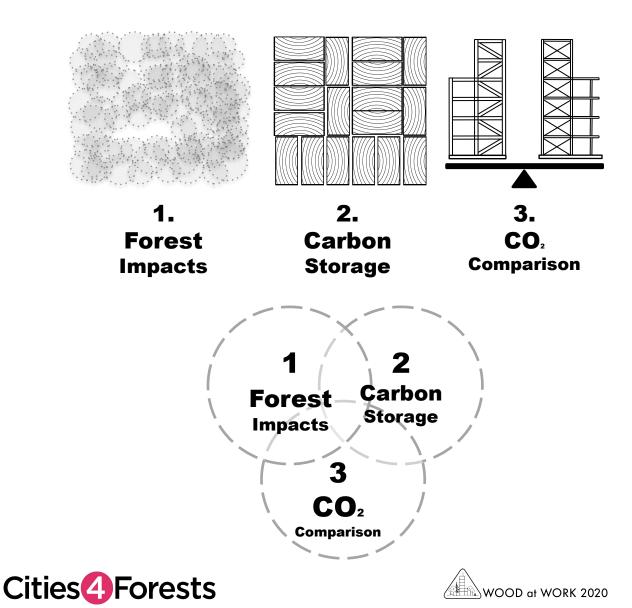




The three-legged stool of sustainable wood

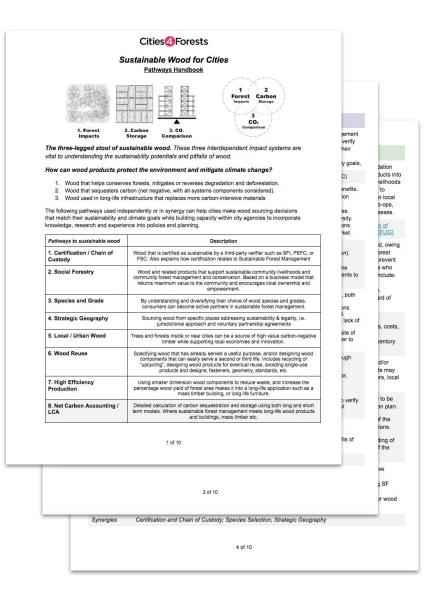
Three interacting impact systems:

- Wood that helps conserve forests, mitigate or reverse degradation and deforestation.
- 2. Wood that sequesters carbon; net negative, with all systems components considered.
- 3. Wood used in long-life infrastructure that replaces more carbon-intensive materials



Structure of the Guide

- 1. Introduction and Overview (2 pages)
- 2. How to use this guide Pathways and Strategies (1 page)
- 3. Pathways Handbook one pagers (8 pages)
- 4. Detailed Sustainable Wood Sourcing Pathways (~20 pages)
- 5. Supporting documents and forms (*Not Yet Available*):
 - a. Wood Needs Report standard template for all projects
 - Wood Options Assessment Matrix standard template for all projects
 - c. Resources and references (Not Yet Available):
 - i. Certification schemes: Claims, Benefits, Accessibility
 - ii. Social Forestry: A starter list of global community forest enterprises
 - iii. Wood Species: suggestions, redlists, lesser-known options,
 - iv. Urban Wood Mills: A starter list of local mills and suppliers
 - v. Strategic Geographies Primer, Jurisdictional Approach examples
 - d. Net Carbon Accounting for Wood Products A Systems Thinking approach





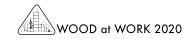


Structure of the Pathways Handbook

- Description
- Examples
- Sustainability **Benefits**
- Actions
- Challenges
- Evaluation/Levels
- Policy Options
- **Synergies**

	Cities 4 Forests		Cities			
#1	Certification and Chain of Custody (Cert/CoC)		#2	Social Forestry		
Description	Certification systems offer a one-stop generalized approach to verifying sustainable forest management and supply chains. Other chain of custody (CoC) approaches involve paper or electronic trails to verify origin. In both cases it is the buyer's responsibility to align the specific claims of verification with their own sustainability goals. What, exactly, is being certified? Where does a chain of custody lead? Cert/CoC may be a good first step to help consumers specify and evaluate their own sustainability goals,		Description	Social Forestry (SF) incentives local management groups to protect valuable forests from degradation and from conversion to other land uses. SF channels the purchase of wood and other forest products sustainable support for community forest management/conservation by directly supporting the livelinc of the people who are closest to the ground in forest frontiers. SF business models are designed to provide smallholders and communities with a fair price, encourage local ownership, and empower loc management and participation. Social Forestry models include community forest concessions, co-orb		
Examples	Forest Stewardship Council (FSC), Programme for the Endorsement of Forest Certification (PEFC)			locally owned and/or managed businesses, Indigenous and or minority owned land and/or businesses		
Sustainability Benefits	 Cert/CoC builds customer confidence in "paying for" a wide range of claimed sustainability benefits. Certification aims to elevate the market value of sustainably produced wood to offset production costs and incentivize sustainable practices. 		Examples	BC Community Forest Association, Uaxactun Management and Conservation Organization. Union of Zapotec-Chinantec Forest Producer Communities (UZACHI), Sundari community forest group (CFUG		
	 Certification standards, to varying degrees, promote Sustainable Forest Management practices. Certification of forests can improve conservation, reduce deforestation, and enhance biodiversity. Can protect soil carbon beneath forests through management practices which reduce emissions. Wider usage and familiarity of Cert/CoC systems increase their capacity to transform the market. 		Sustainability Benefits	If done well, Social Forestry can offere some of the highest sustainability benefits per unit of wood, ow to the often "high conservation value" of these managed forests. SF typically requires intensive forest management planning, oversight and partnerships with established NGOs. SF systems work to prever poaching, free, land grabs, and corruption by engaging and empowering committed communities who receive livelihood or other social benefits from the forest. Measurable benefits of social forestry include the social benefits of the social benefits from the forest.		
Actions:	Define project requirements using the Wood Needs Report template. Briefly explore Cert/CoC options (See Databases and References section for more information). Create specification and or RFP requirements for certified wood or CoC documentation. Work with design teams to incorporate specific alignments between Cert/CoC products and the project extended teaming the Mark and the Mark and the specific alignments between the for products and the provide teaming the Mark and the Mark and the specific alignments between the formation in the specific alignments between the formation of the specific alignments between the specific alignments bet			 High forest carbon value per unit of wood purchased, due to attributed forest conservation. High biodiversity protection per unit of wood purchased, due to attributed forest conservation. Long term social benefits may include: education, job training, reduced out-migration, standarn living increase, and improved food security. 		
	project potentials and requirements. Match specific wood components (framing, interior elements to the highest level of sustainability benefits that Cert/CoC can offer.		Actions:	 Create a "wood needs report" that outlines the anticipated demands of the project. Contact SF suppliers and their key partners (NGOs), to deepen understanding of the benefits, co timing and any challenges to doing business with SF suppliers. 		
Challenges	 Certification can indicate a wide variety of goals, rigor, enforcement and measurable benefits, both between different schemes, and even within a scheme such as FSC. Certification claims and benefits tend to be generalized and may not provide strong connections between the goals of consumers and the specific forest landscapes or communities impacted. 			 Where feasible, create a shortlist of SF producers to bid on the wood supply subcontract. Inventive benefits these suppliers offer with their wood products. 		
	Deriver the goals of consumers and use public lotest rainscapes of communities impacted. Certification has been criticized for failing to deliver on its promises due to poor enforcement, lack of transparency, corruption, leakage and unrecoverable costs to producers. Chain of Custody does not necessarily address the environmental and social impacts at the site of production (note that this differs from most Certification). It is the responsibility of the consumer to understand local conditions in order to make effective use of Coc Information.		Challenges	Social Forestry enterprises can be remotely located and may not have full access to markets, and/or supply chain partners. Language barriers and distances may slow down communication. Products me have quality control issues, which can be managed by supply chain partners (distributors, shippers, lo reps, where applicable).		
Evaluation / Levels	Level One: All wood products sourced for a given project are certified, and/or CoC is verified through paperwork. In both cases, certificates (CoC or Certification) are filed with project documentation.		Evaluation / Levels	Level One: Project RFP/tender includes wood sourcing criteria that a SF enterprise is most likely to be able to fulfill, such as social inclusion, community benefits, sustainable management, conservation pla		
	Level Two: Particular certification scheme(s) chosen to align with City's sustainability goals. And/or, Chain of custody is chosen to verify legality and source to match with City's sustainability goals. Rationale and certificates are filed with project documentation. Level Three: Direct contact is established with the certifier (and/or CoC links) and/or third party, to verify particular benefits in the supply chain as they relate to the specific wood purchase. Environmental Benefits Report is filed with the rationale and certificates in the project documentation.			Level Two: Selection of a SF producer(s) is featured prominently in the sustainability narratives of the project and/or city. Awareness of climate benefits of SF is increased through project communications.		
				Level Three: Direct contact is established with Social Forest enterprise to deepen the understanding or sustainability benefits. Sole sourcing and/or partnership is established that increases the value of the transaction for the city and the SF enterprise.		
Policy Options	 1A. Establish requirement or preference of certified wood in public procurement. 1B. Require chain of custody certificates for all wood products procured. 1C. Specify preferency or establish requirements for certification standards that deliver benefits of social and environmental sustainability. 		Policy Options	 S 2A. Establish sustainable or green public procurement criteria that acknowledges and can give preference to social sustainability of wood products. 2B. Establish partnership with NGO (or international programs such as REDD+) in promoting 1 (such as Community Forest Management/Enterprises) in local and regional forest areas. 2C. Encourage policy development and supplier registries that can promote wider demand for 		
Synergies	Social Forestry; Strategic Geography			and products of regional and international CFM, CFE, and SMEs.		
	3 of 10			4 of 10		



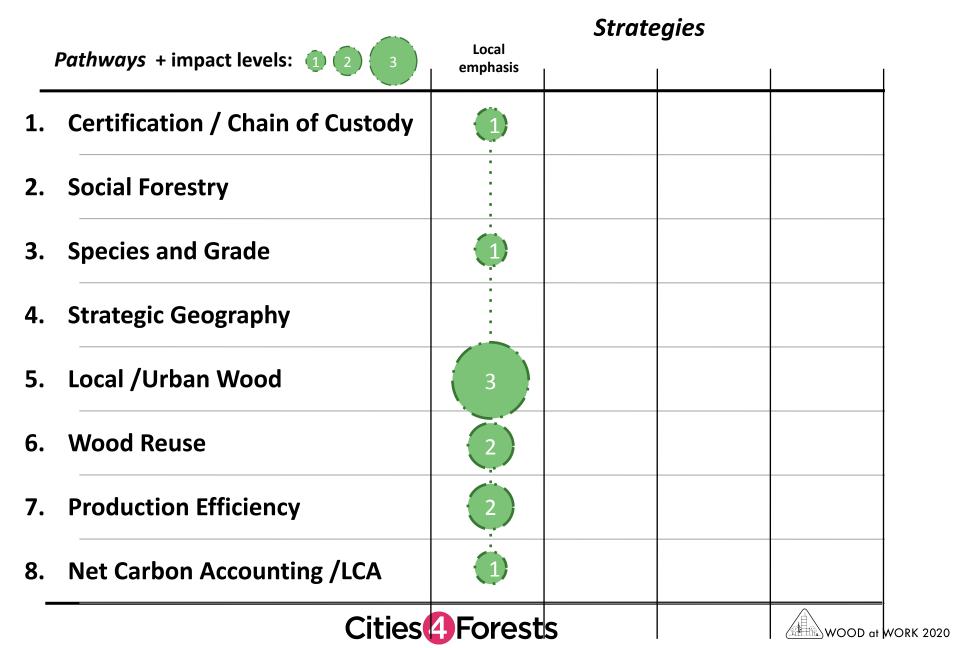


Sustainable Wood Sourcing Pathways and Strategies

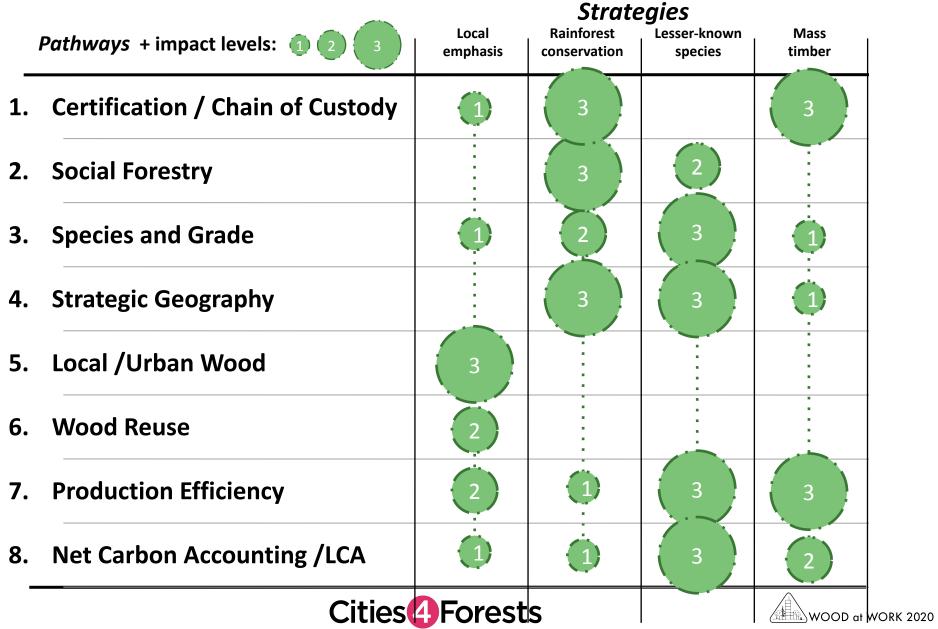
	Pathways + impact levels:	I		egies	I	1
1.	Certification / Chain of Custody					
2.	Social Forestry					
3.	Species and Grade					
4.	Strategic Geography					
5.	Local /Urban Wood					
6.	Wood Reuse					
7.	Production Efficiency					
8.	Net Carbon Accounting /LCA					
_	Voluntary self-scoring Cities	4)Forest	:S		WOOD at	 WOR

Stratonios

Sustainable Wood Sourcing Pathways and Strategies



Sustainable Wood Sourcing Pathways and Strategies



Breakout Activity: Testing the SW4C Guide

Instructions (Please make sure to provide feedback at the end of document or with comments feature)

- 1. Quick round of introductions of group members.
- 2. Read your group's starting Pathway definition with the group.
- 3. Define project requirements using the Wood Needs Report and Assessment Matrix tables.
- 4. Consider the eight *Sustainable Sourcing Pathways* to see if there are other obvious matches for the project. Keep in mind that some pathways may follow the lead of another.
- 5. Create an integrated *Strategy* using multiple *Pathways* to serve the project, and the sustainability goals of the city.





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Wood Needs Report - Types and quantities of wood required. May adapt with strategy. (Use table or not!)

Use	Needs	Limitations
		many
	Use	Use Needs

Assessment Matrix - Consider options, sustainability benefits and cost benefit analysis. (feel free to use this table or not!)

Wood/Sourcing Options	Sustainability Benefits	Costs/Cons	Notes

Design Concept Notes - Special features, components and relationships considered.

Project Strategy - Create a multi-pathway approach with synergies and benefit multiplication.

Pathways	Level	Notes
1. Certification / Chain of Custody		
2. Social Forestry		
3. Species and Grade		

