The Baltimore Wood Project

Turning wastes to assets in the sustainable city
The Baltimore Wood Project

Rethinking Wood in the City

Baltimore City Has Old Wood We Can Use
Supply chains

• Generators
  • Who creates wood residue?

• Processors
  • Who collected and cuts/dries wood residues?

• Producers
  • Who adds value and sells as products?
FROM WASTE TO WEALTH

Wood is salvaged from building deconstruction and urban tree care operations, and taken out of the city’s waste stream.

1

2
Collected wood is diverted from space-limited landfills and other waste facilities. A local facility is dedicated to sorting and processing salvaged wood for its best use.

The wood is repurposed and resold locally, creating a closed loop system. Reclaimed and upcycled wood products are available for sustainable building, furniture, energy, and other uses.

4,000 Vacant Homes

Over the next 10 years, 4,000 condemned Baltimore rowhouses are slated for demolition.
FOUR PROJECT COMPONENTS

COUNT
SALVAGE
SORT
USE
• Stocks
  • How much material is out there?

• Drains
  • How much is consumed annually?

• Supply
  • What is the annual supply capacity?

• Urban FIA
• Public tree inventory
• Demolition/deconstruction schedule
The Forest Service's Forest Inventory and Analysis (FIA) program has provided the National forest census since 1936. A system of forest measurements for plots across the United States serves as the program's foundation. Annual forest data collection, analysis, and reporting provide critical information needed to assess the status, trends, and sustainability of the nation's forests. FIA represents the vast majority of trees nationally, but the program's definition of forest land leaves out most urban areas: FIA defines forest land as forested areas that are undeveloped or "not developed for nonforest land users", are at least an acre in size and 120 feet in width, and contain a "live plus missing" canopy cover of at least 10 percent. In recognition of the importance of including all forests in the national forest census, the Forest Service is establishing a systematic approach for collecting the status and trends of urban trees and forests.

The Urban FIA program fuses the infrastructure of the tradition with the urban inventory expertise provided by iTree. New Urban FIA will be used to produce estimates of the quantity, health, composition, and distribution of urban trees and forests. The Urban FIA program will complement existing fieldwork and provide a cohesive picture of urban forest conditions in the U.S.

The program includes urban versions of two important FIA programs: the Woodland Owners Survey, which is the official census of U.S. forest products and inventory, and the Urban FIA Frequently Asked Questions (pdf).

Urban FIA webinar recording and presentation materials

What is i-Tree?

i-Tree is a state-of-the-art, peer-reviewed service that provides urban forestry and forest management assessment tools. The i-Tree tools help managers strengthen their urban forest management and quantify the structure of community tree services that trees provide.

Learn more about i-Tree.

Learn more about the Forest Inventory and Analysis Program.
1/6 Acre vs. Traditional FIA

Urban FIA Plot footprint:
- 1/6 Acre Subplot, 48’ Radius:
- Four 6.8’ radius Microplots:

Urban Plot:
Plot Center: 48.0 ft. radius

Urban Microplots:
6.8 ft. radius
11 - 12.0 ft. @ 90°
12 - 12.0 ft. @ 180°
From plot center
The Camp Small Zero Waste Initiative

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URBAN LOGGING

OECustom

USE

Fresh Cut
Treincarnation

Fresh Cut
Brick + Board

Deconstruction
Brick + Board

Deconstruction
New opportunities for greening, jobs, markets

Gov. Hogan announces $700M plan to target urban decay in Baltimore

Creating Opportunities for Renewal and Enterprise

From this article

House Democrats to push legislation to help Baltimore

Governor Larry Hogan, along with Mayor Stephanie Rawlings-Blake, announced a partnership to demolish thousands of vacant buildings in Baltimore. Project C.O.R.E. is providing $94 million to help transform these neighborhoods. (Kevin Richardson)

By Luke Broadwater and Yvonne Wenger - Contact Reporters
The Baltimore Sun

Buildings - 123 houses
Bricks - 500,000
Wood - 158,000 be ft
Trained - 60
Presently on staff - 40
New contract
3 years
200 houses per year
Baltimore’s Opportunity to Create a Green Network
Design Competition

WEATHER-DEFYING DESIGNS
Our exclusive outdoor furniture is made from the best quality materials to stand up to the elements.
SHOP ALL OUTDOOR.
Pay for Success

- **Payor**: Delivers services to Payor's target population
- **Service Provider**: Provides up-front capital
- **Evaluator**: Repays investors if outcomes achieved
- **Investors**: Provides up-front capital
WE'RE JUST GETTING STARTED!
MORE TO COME IN 2016.

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