Developing Toronto’s local wood utilization industry
Turning a waste into a valuable resource
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UTILIZING TORONTO’S URBAN WOOD RESOURCE

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TORONTO’S URBAN FOREST

Inventory of Trees

- Estimated 10.2 million trees total
- Mortality rate is estimated at 2% (200,000 trees die per year)
- However, diseases and pests are creating surges of species die-off
  - Dutch Elm Disease, Asian Long Horn Beetle, Gypsy Moth, and now the Emerald Ash Borer
  - There will be future invasions of more pests and diseases...

Note – the actual mortality rate is unknown and further studies will assist in determining an accurate number
The Emerald Ash Borer is expected to kill most of Toronto’s 860,000 Ash trees by 2020.
City plans to remove 80,000 of 340,000 dead trees.
Unknown how many the private sector will remove.
Cost to the community will be much higher than for the City.

<table>
<thead>
<tr>
<th>Sector</th>
<th># of Dead Trees</th>
<th>Costs</th>
<th>15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removed/Left in Place</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>80,000</td>
<td>$70,000,000 ($875/tree)</td>
<td>15%</td>
</tr>
<tr>
<td>Community</td>
<td></td>
<td></td>
<td>85%</td>
</tr>
<tr>
<td>Toronto District School Board</td>
<td>6,500</td>
<td>$10,000,000 ($1530/tree)</td>
<td></td>
</tr>
<tr>
<td>Rest of Private Property</td>
<td>257,000?</td>
<td>$398,000,000 ($1530/tree)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>343,000</td>
<td>$478,000,000+</td>
<td></td>
</tr>
</tbody>
</table>

+ the regular die off of 200,000 trees per year.
TURNING WASTE INTO A VALUABLE RESOURCE

- Forestry is proactively seeking out value for the wood waste
- A City ash log found in Forestry wood transfer station
  - 7' long – 3’ diameter
  - weight of 1,000kg and volume of 1m³
- This does not imply that all logs in the waste wood yards have this value or that there is a current market for these logs...

<table>
<thead>
<tr>
<th>Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding</td>
<td>$6.60</td>
</tr>
<tr>
<td>Disposal (private sector only)</td>
<td>$106.90</td>
</tr>
<tr>
<td>Selling as chips (for bio-mass energy)</td>
<td>$26</td>
</tr>
<tr>
<td>Selling it as a saw log – construction grade</td>
<td>$42 - $84</td>
</tr>
<tr>
<td>Using it as an energy source</td>
<td>$72</td>
</tr>
</tbody>
</table>

**Retail Values**

- Firewood                                 | $100.  |
- Mulch                                    | $122.  |
- Wholesale construction lumber            | $560.  |
- Retail construction lumber               | $924.  |
- Furniture made of local Ash              | $4,000-$8,000
AND WE HAVE A LOT OF FALLEN TREES
COULD THIS WASTE BE MADE INTO A RESOURCE?
CITY PILOT WITH SAWMILL SID
Canada is the 4th largest furniture exporter in the world behind Italy, China and Germany

- $11 billion dollar industry in Canada
- 105,000 direct employees
- 50% of production in Ontario

Toronto has major firms and smaller firms that have international prominence
LOCAL SAWMILLS & LUMBER

Urban Tree Salvage

Century Mill Sawmill

WeCare Tree Care

Sawmill Sid

Canadian Salvaged Timber
There is a significant cost to the homeowner:

- Cost to remove
- Devaluation of property value
- Loss of shade and the beauty of the trees

The community is already being innovative in finding local uses.

Biggest need is to make homeowners, who need a tree removed, aware that there are companies that will turn this wood “waste” into a “heirloom” product for them.
Roadmap outlines 4 actions:

+ Sector Capacity Building
+ Marketing Program for Urban Wood
+ Biomass Usage Strategy
+ Pilots of a Neighbourhood project
BUILDING AWARENESS OF THE TORONTO RESOURCE

- Urban Wood Industry Directory
  - Latest Edition just published!
  - Electronic copy found on LEAF’s Website
- Wood from the Maple Leaf Forever Tree
- Urban Wood Website
  - On LEAF’s Website
- IIDEX Woodshop
NOW TURNING IT OVER TO THE PEOPLE BEHIND THE URBAN WOOD RESOURCE STORY