Minnesota's Economy: What's reuse got to do with it?

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January 14, 2014



Overview

- What is reuse?
 Why did we do this analysis?
- 2. Methods and findings.
 What did we do? What did we find?
- 3. Implications and opportunities. So what?

What is reuse?

- 1. Distinct from recycling
- Means using an item again, in its original form; extending the useful life of an item.
- 3. Happens before discarding for waste management.



































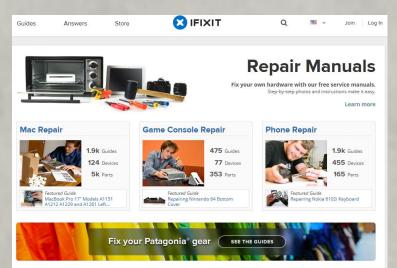


Minnesota Pollution Control Agency













Minnesota Pollution Control Agency

Original: Vinyl

Repurposed →

billboards











Original:

Repurposed →

Conveyor belts









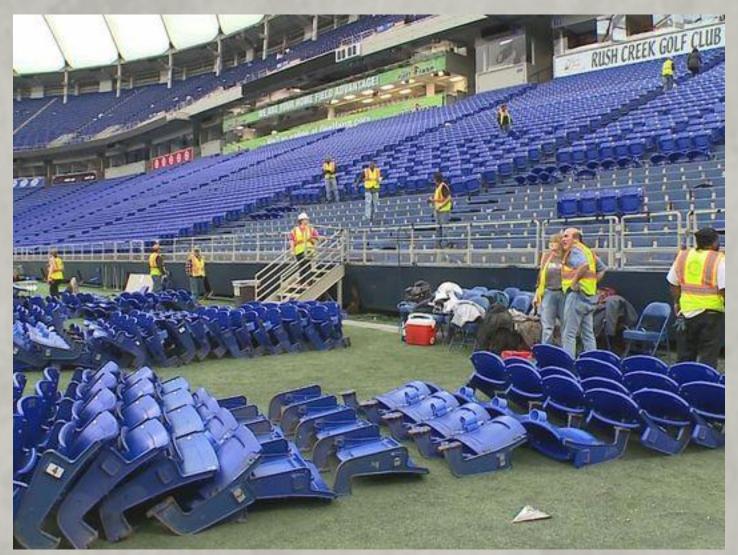




These examples courtesy of Repurposed Materials, Henderson CO









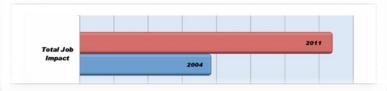
Why this study?

Recycling supports our economy



Recycling is increasingly valuable to the economy. What was once thought to be worthless – waste material – now has substantial value. For example, making a new aluminum can from recycled aluminum cans uses 95% less energy than using virgin materials. In addition, the companies that work in recycling have been increasing over time, and these companies provide jobs and contribute to Minnesota's economic health.

Adding jobs



"Economic Activity
Associated with
Minnesota's Reuse,
Repair and Rental
Sector"

http://www.pca.state.mn.us/uyhkddq



Method

- Focus: Economic activity (not environmental)
 - jobs, wages, sales from direct jobs
 - indirect and induced jobs
 - understand reuse spending impact on local spending
- Data from Dun and Bradstreet
- Interviews
 - businesses
 - economists





What's in? What's out?

In

- Resale of previously owned goods by business or charity.
- Salvage and refurbishment.
- Repair (extending item life).
- Rental
- Recycling.
- Out On-line sales and trades.
 - Person-to-person sales, trades, rentals and repairs.





Categories

Used sales ⁴	Rental	Repair
 Boats Cars & trucks General merchandise (any non-vehicle item) Motor vehicle parts & tires 	Commercial machinery & equipment Consumer electronics, appliances & other goods Formal wear & costumes	Appliances Automotive vehicles Commercial machinery & equipment Communication equipment Computer/office machines
 Motorcycles Pawned items Recreational vehicles Snowmobiles, all terrain vehicles, jet skis & other off-road vehicles Utility trailers 	 General rental centers Home health equipment Office machinery & equipment Recreational goods Recreational vehicles Video tapes & discs 	 Consumer electronics Footwear & leather goods Furniture Home/garden equipment Electronic & precision equipment Personal & household goods

Select portions of these categories were included.



Data Gaps

Not included in data set:

- Part-time employees (jobs or wages)
- Wages of sole proprietors
- Volunteers
- Sales from privately-owned franchises of chain stores.

Thus, analysis is quite conservative and underestimates jobs and wages.



Findings: Jobs

Reuse (Minnesota)

45,840 direct jobs

Recycling (Minnesota)

unknown



Findings: Jobs

Reuse (Minnesota)

45,840 direct jobs

58, 814 direct + indirect

Recycling (Minnesota)

unknown



Findings: Jobs

Reuse (Minnesota)

45,840 direct jobs

58, 814 direct + indirect

Recycling (Minnesota)

37,000 direct + indirect



Findings: Wages & Sales

Reuse (Minnesota)

\$1.1 billion wages (58,900 jobs)

\$4 billion
direct sales
(Dun & Bradstreet)

Recycling (Minnesota)

\$1.96 billion wages (37,000 jobs)

Not directly comparable



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\$4 billion direct sales (Dun & Bradstreet) Recycling (Minnesota)

\$1.96 billion wages (37,000 jobs)

Not directly comparable



Findings: Sales

Reuse (Minnesota)

\$4 billion direct sales

Utilities (Minnesota)

\$4.2 billion GDP

Tourism (Minnesota)

\$11 billion direct sales



Other Findings

- Reuse, repair and rental 1.8 % of state jobs and estimated equivalent of 1.6% of GDP.
- While reused goods are taxed, the value of the used goods that are sold is <u>not</u> included in GDP.
 Only the value of services associated with selling a used item are included in GDP.

Reuse is like any other economic sector:

- "The economy doesn't care how you spend your money."
- "The consumer who buys used will buy something else or save it, both of which help the economy."



Reuse has no sector-specific effect on macro-economy; helps the individual:

- "Impacts are probably the same, whether new or used.

For the individual, he is better off, the money he saves is the same as he gets in his paycheck."



Reuse is a service, and more of a "service" dollar stays local than a "new good" dollar:

- "Services tend to have more local connection. More will stay local if there is a local connection.
 - "A locally-owned repair business could retain at least 50% of the repair dollar in the state. In contrast, new car dealerships" would keep only 13% of each dollar for locally paid expenses.

Our conclusion...

The macro-economy doesn't care how money is spent.

But the environment cares.

So does the individual, and so does the local economy.



What about environmental impact?





Thank you!

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Find the study at http://www.pca.state.mn.us/uyhkddq



Addenda: Reuse Definition

For this analysis, we included businesses in NAICS codes that fit this definition:

Any business activity that extends the useful life of an item in its current state and helps keep it from being thrown out, or that provides the opportunity for a consumer to acquire or use an item secondhand that otherwise might have likely been bought new.



Addenda: Reuse Definition - detail

This definition includes resale by business or charity of previously-owned goods, salvage and refurbishment, repair that extends useful life (but not routine maintenance) and rental of things that are routinely purchased new.

Examples of intent: So for instance, we wanted to include clothing repair, but not laundry services. In automotive, we wanted to keep major repair like transmission, but not oil changes. In rental, we counted things like dishes and glasses, but not construction cranes, which are primarily rented, rarely bought new.