

TEXTILE RECYCLING

RECOVERY, DESTRUCTION &
TRANSFORMATION



Textile Recycling Background



Textile Recovery: Where do YOU fit in? And where does JOSCO Products fit in?

- There are brands that encourage consumers to return items back to them such as H&M, ZARA, Patagonia and The North Face



SMART Membership




GLOBAL ISSUE:

- What do Wal-Mart, Target, Forever 21, H&M and other retailers contribute to this global issue? How does social media impact the buying decisions of consumers?
- Where do used & unwanted textiles go?
- Textile Recycling increasing or decreasing?
 - Why?
 - Percentage of Change



FAST FASHION

- According to Wikipedia: Fast fashion is a contemporary term used by fashion retailers for designs that flow from the catwalk quickly to capture current fashion trends. Fast fashion clothing collections are based on the most recent fashion trends presented at Fashion Week in both the spring and autumn of every year.
 - Typically a “fast fashion” garment is only worn a few times before it falls apart or the owner wants to replace it with a new item.
 - We consume a staggering 80 billion pieces of clothing each year. This is up 400% from 2 decades ago.
 - It is shocking how much unwanted clothing there is in the world
 - What happens to all these garments?
- 



How did all these clothes end up here?

- According to Elizabeth Cline author of “The Conscious Closet: The Revolutionary Guide to Looking Good While Doing Good” states “one garbage truck of clothing is dumped every two minutes in the US.”

Good News and Bad News

- Approximately 95% of materials can be reused and or recycled if they are clean, dry and free of hazardous chemicals and solvents. Additionally, no pet hair.
- In US, 5-6% of all landfill is textiles and only 15% of textiles are currently being recycled. Very few jurisdictions mandate that textiles be recycled and few offer curbside pickup.
- 85% is thrown away
- Current estimate is 80 pounds per person per each year
- According to the EPA, textile waste is the fastest growing material category in the entire waste stream. Textiles increased almost 80% since 2000 just on pure basis weight while the entire overall stream only grew by 10%.

Besides Closet Clean Outs

HOTELS – BUT NOT SO MUCH LATELY

LINEN RENTAL COMPANIES – RESTAURANTS AND BARS
USE THEM

THRIFT STORES – SOME WANT TO SUPPORT LOCAL

- HOSPITALS – GOOD FLOW

- TEXTILE MANUFACTURES – AVOID THE LANDFILL

- DESTRUCTION SERVICES – BECOMING KNOWN



Would you like to know what makes up the 95% of reusable textiles?

BREAK DOWN:

- 45% sold as second hand or used –Goodwill, Salvation Army, Thread Up, Poshmark
- 30% are made into wiping rags – this is where JOSCO fits in
- 20% are ground into fibers to make other materials like insulation
- 5% go to the landfill

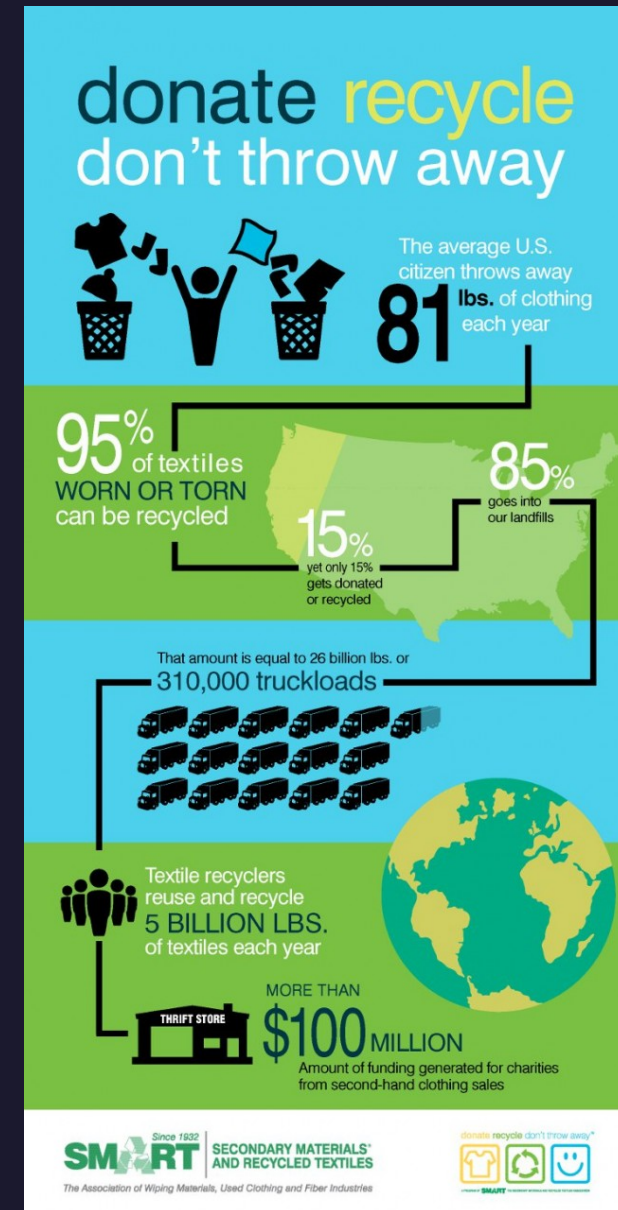
THE OTHER HALF

- Broken zippers – okay
- Stained – as long as it is clean
- Torn – is there still usable material?
- Missing button – they are going to be cut off
- Out of style or fashion – okay by us



Why recycle textiles?

- 2 million tons of textiles are recycled each year in the U.S.
- Equivalent to removing ONE million cars from America's highways
- Impacts reducing greenhouse gases equal to the combination of recycled yard trimmings, glass recycling and plastic recycling



What is a reasonable goal for textile collection, reuse & recycling?

- If the current diversion rate is 15%, where can we hope to be in 2025?
 - 25%
 - 45%
 - 75%
 - 90% (zero waste) – this is too big for 5 years out!

There are companies and programs working to increase sustainable fashion by new methods of fiber recycling and create new garments. Check out – Worn Again and re:newcell.



How does
JOSCO
differentiate
itself?

One of our core values is Legacy
– to use that means leaving the
planet a better place.

We offer our destruction
services to local municipalities

We participate in local programs
to raise awareness like [RE]Verse
Pitch and MoveOutATX

Austin's Textile Recovery Map by Austin Resource Recovery

- <https://kumu.io/ARRCircularEconomy/map-of-local-textile-material-outlets#mapping-urban-circular-textile-flow/textile-recycler>



Welcome to Austin's Circular Economy Story!*

Learn about Austin's circular businesses and how they interact with each other to form the circular economy in Austin, TX.

Instructions

(Click on Austin's Circular Economy for reset)

1. Hold your mouse on a dot for 2 seconds and explore the connections being made!
2. Click on any dot you're interested in. This will pull up their general information and circular practices.
3. Once you click it, it will stay highlighted and associate itself in relation to other business.

Be Part of the Map!

Is your business part of Austin's Circular Economy? Fill out our application:

https://cityofaustin.formstack.com/forms/circular_economy_map_application

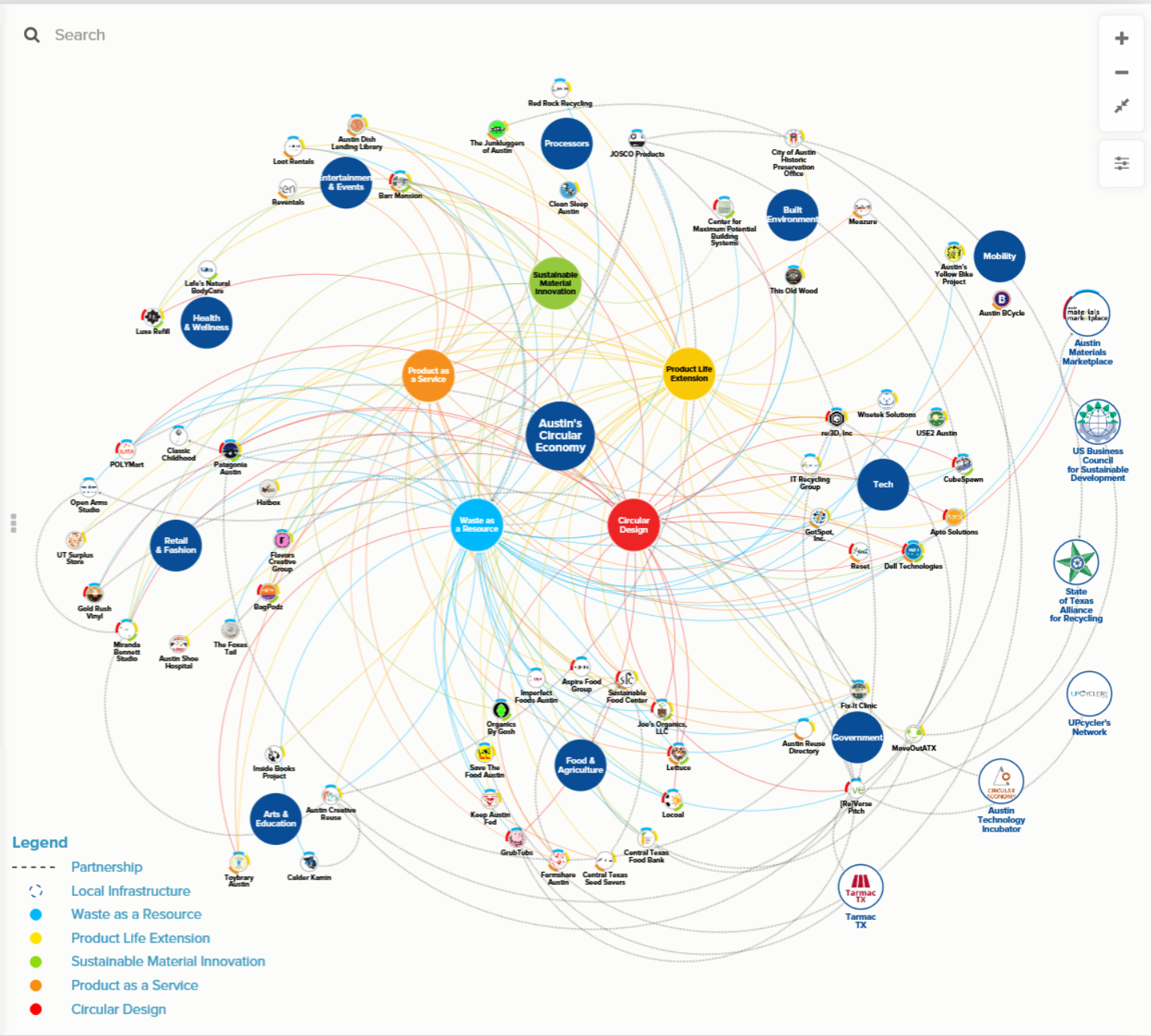
Looking to shop, donate or repair with zero waste in mind?

Check out the Austin Reuse Directory:

<https://austineconetwork.com/austin-reuse-directory/>

Using a Screen Reader?

If you use screen reading technology or prefer to see this



JOSCO Products



PROCESSOR

JOSCO Products is a textile recycler and industrial manufacturer founded in 1980. JOSCO creates upcycled industrial cleaning products out of surplus textiles such as clothing, sheets and fabric. They offer a full line of recycled Eco Rags made from cotton-based surplus textiles and destroyed uniforms.

Waste as a Resource

CIRCULAR STRATEGIES

WASTE AS A RESOURCE JOSCO Products helps businesses – including the hospitality, thrift and government sectors – work towards Zero Waste by reclaiming their textiles before they go to the landfill. They transform old linens, t-shirts, uniforms and other cotton fabrics into wiping rags. The wiping rags circulate through the economy an average of six times before reaching their end of life.

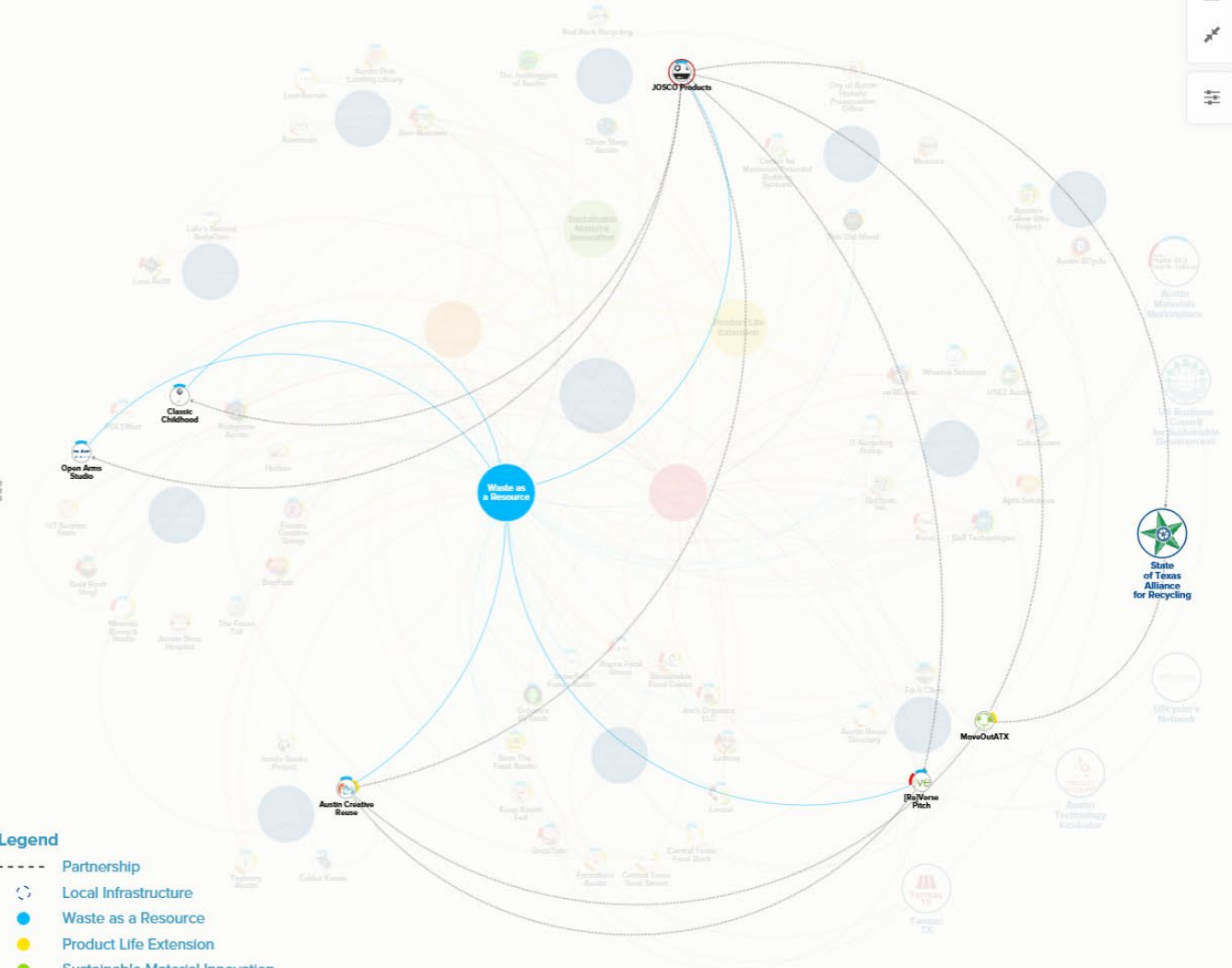
INFO

CLASSIFICATION	For-Profit Business
CLASSIFICATION OF BUSINESS BY SIZE	SME (Small to Medium Enterprise)
ORGANIZATION'S CORE FUNCTION	Manufacturing
WEBSITE	joscoproducts.com/
IMAGE	

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Q Search



Legend

- Partnership
- Local Infrastructure
- Waste as a Resource
- Product Life Extension
- Sustainable Material Innovation
- Product as a Service
- Circular Design

Map of Local Textile Material Outlets

The City of Austin's Circular Economy Program piloted the Material of the Year project in 2019. Its aim was to develop solutions to keep an identified hard-to-recycle material out of the landfill. The first material was end-of-life textile materials from businesses.

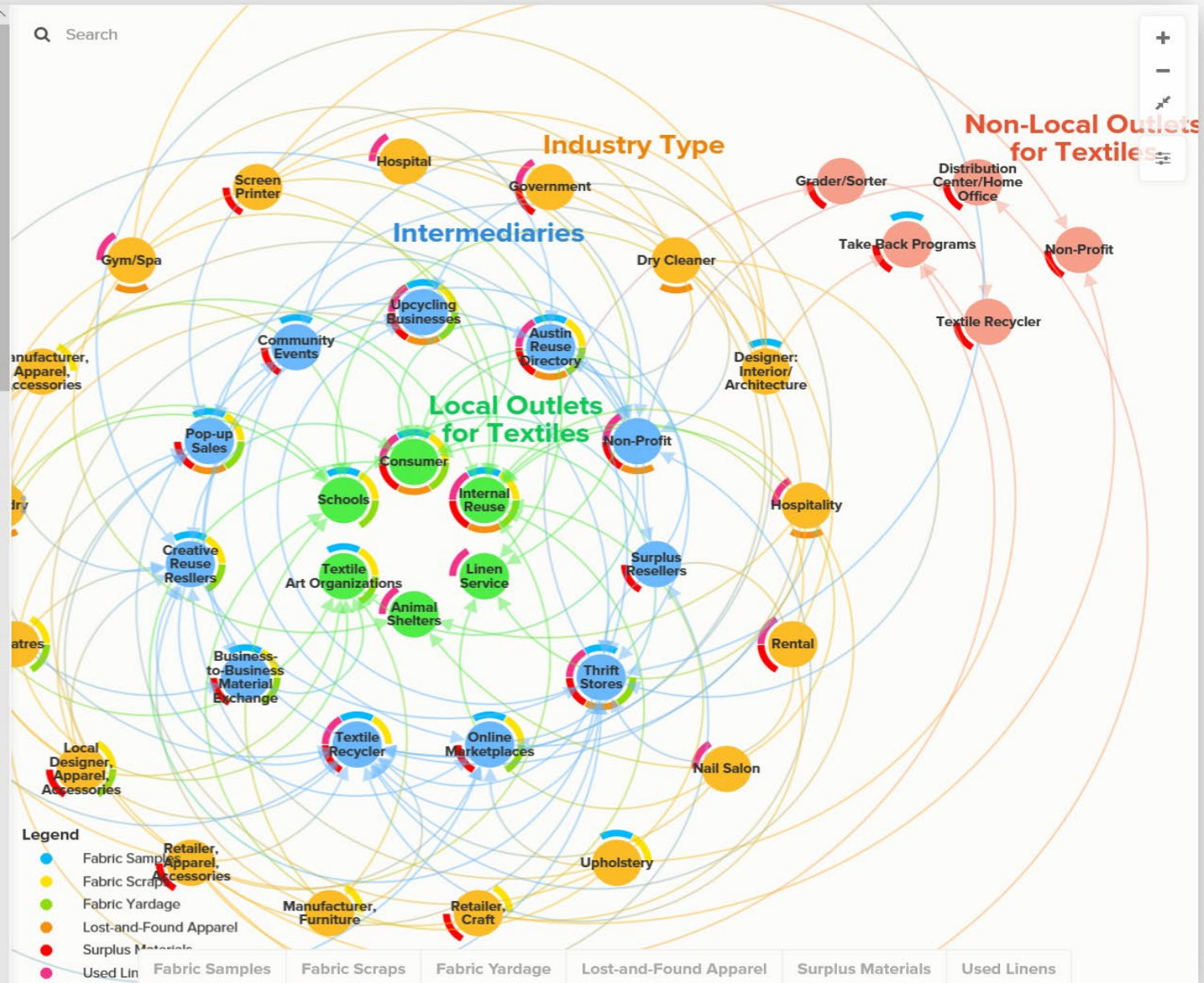
End-of-life describes when a material reaches the end of its useful life for a primary user but may still be useful to another user.

This map outlines outlets for end-of-life textiles for businesses and organizations. Staff identified these connections through phone interviews, surveys, and online resources.

Instructions

(Press Esc to reset)

1. Select the type of textiles you have at the bottom of the map.
2. Find your type of business in the outer circle.
3. Click on a dot for more info.
4. Press Esc to exit the dot's description.



What is end of life in terms of textiles?



How can we all help?

Spread the word that just because you won't wear it or don't want someone else to wear it (like an EMS T-shirt or T-shirt proclaiming your team won when it didn't) it doesn't have to go to the landfill.



Curiosity: people want to know what happens to their old clothes after they get rid of them



the secret double life of donated textiles

NEARLY **100%** OF DONATED TEXTILES ARE RECYCLED! They are separated into three grades:

45%

USABLE CLOTHING



20%

FIBER CONVERSION GRADE



30%

WIPING CLOTH GRADE



Recycled fiber products **SAVE MONEY and RESOURCES** by using existing materials.



CLOSING THE LOOP

Recycled cloth rags use **LESS WATER, LESS ENERGY** and create a **LOWER CARBON FOOTPRINT** than all other alternatives.



The second hand clothing market provides **AFFORDABLE CLOTHING** to those in need and **ENCOURAGES GLOBAL ENTREPRENEURSHIP.**

SECOND LIFE ...



stained t-shirt → wiping cloth



lone sock → pillow stuffing



old denim → household insulation



teddy bear → car seat stuffing



torn bath towel → wiping cloth



Since 1932
SMART

SECONDARY MATERIALS AND RECYCLED TEXTILES

The Association of Wiping Materials, Used Clothing and Fiber Industries

don't recycle don't throw away



Thank you!

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