

Eco Industrial Park

Reuse Facilities Proposal

Sorting, Processing & Retail

Presented by Sarah Goff of The Repurpose Project

Overview:

Reuse has been largely overlooked in all municipal waste management systems including Alachua County. This is a comprehensive proposal to add reuse as an integral part of the county waste management system and to make Alachua County a leader in sustainability and a model of material recovery worldwide.

Problems to solve:

1. Over-consumption is a big problem for our waste disposal cost, landfill longevity, and the health of the planet and its inhabitants.
2. Lots of valuable resources are not accepted or sold by the available reuse retail operations (thrift stores) and therefore are getting landfilled instead.
3. Buying used is not convenient for people; however, buying used is a great way to keep valuable material from being wasted and reduces carbon emissions and water usage substantially by eliminating new item manufacturing.
4. Many people are not aware of the environmental damage caused by over consumption and our throw away society or the harm it causes people and animals. Recognizing this fact will change some people's habits.

A Ground-breaking Model:

There are some great models around the country that address aspects of reuse in their communities. There are traditional thrift stores, architectural salvage operations, creative reuse centers, and even reuse stores connected to municipal transfer stations. Some are for-profit, some are non-profit, and some are operated by municipalities. Each model has been created to address certain segments of the waste stream, all parties recognizing the need and value of salvaging useful material, but no existing model compares to the scale and convenience of the ubiquitous retail stripmall that has flourished across the county. In order to curb overconsumption of new items and compete with new retail operations, it is necessary to create a used retail economy that matches the convenience and ease of modern retail. Convenience rules the market. This proposal combines many innovative initiatives into one program thus increasing the efficiency and effectiveness of collection, processing, and distribution while also adding the shopping conveniences that people have come to expect. This is a ground-breaking model for reuse that, if fully adopted by the county, would make Alachua County a leader of

material recovery worldwide. The Repurpose Project has worked tirelessly for the last nine years to divert usable material from the landfill recognizing fully that we are only scratching the surface of the waste problems. It is our goal to partner with the county to implement this innovative and comprehensive waste reuse program so it can be replicated and substantially reduce waste and carbon emissions on a global scale.

PROPOSAL - A COMPREHENSIVE AND LARGE SCALE MUNICIPAL REUSE PROGRAM INCLUDING:

- County Wide Collection Sites for reusable items and material
- As-Needed Pickup Service for donations (free if material is at least as valuable as pickup costs: labor, fuel, truck)
- Junk Removal Service that focuses on salvaging useful material - a service that is paid for by customer
- Central Sorting and Processing Facility for donated material
- Large Retail Strip Mall of specialized reuse stores modeled on the big box store retail system that has flourished
- Utilize online resources to display and market used items.
- Delivery Service for large items (fee is based on item and distance)
- Diversion streams of needed material to non-profits, homeless rehousing programs, teachers, etc
- Diversion streams to remanufacturers and repair companies preferably located in the Alachua County Eco Industrial Park
- Free Store and Free Salvage Yard as a last chance (or by-the-pound bulk retail)
- Recycle anything possible that remains
- Dispose of what is left
- Study and research what is getting disposed of at the end of the line and seek remanufacturers or refurbishers that use that material to locate at the Eco Industrial Park
- Focus reduce/refuse/reuse education around those trouble materials and use the information to make local ordinances or incentives to reduce the use of those materials

Main Compelling Points:

- Reuse has been largely overlooked in all municipal waste management systems.
- Reusable items are the most valuable part of the waste stream.
- Reusing items is the highest and best use of their resources and is part of moving our system to a circular economy.
- Reusing items is a very simple way to reduce waste, save energy and water, reduce the need for new material thus reducing the county's carbon footprint, save citizens' money so they can spend it elsewhere, and prolong the life of the landfill.
- Reuse retail is straightforward and does not require complex or expensive equipment or technology compared to many recycling and remanufacturing operations.
- Reusable item sales will generate income that will subsidize the labor needed to operate the facilities. Reuse retail makes more sense financially than landfilling and recycling,

especially now that market rates for recycled material have dropped, yet we pay for recycling and landfilling and don't put any resources towards reuse.

- Green job creation - much of the expense of an operation like this is labor, meaning many green jobs and east side jobs will be created.
- Reusing material means there will be a reduction in the cost of tipping fees at the landfill.
- Reusing material means there will be a reduction in the cost of trucking material to the Union County landfill.
- Reusing material will prolong the use of the current landfill so another doesn't have to be created.
- Thrift stores are in the business of fundraising for their causes and not waste management.
- Thrift stores only resell a fraction of the reusable waste available, and many items such as building materials, office & school supplies, art supplies, and much more are overlooked and as a result are thrown away with actual trash.
- We need to shift our thinking and instead view some waste as a resource with value instead of a problem to dispose of.
- Twenty-nine percent (29%) of greenhouse gas emissions are from the stuff we buy (harvesting/mining, manufacturing, packaging and shipping), and in order to tackle the climate crisis, we need to address over-consumption and the waste of resources.
- We are using resources faster than the planet is creating them, and this is unsustainable for future generations and a public health crisis that needs to be addressed.
- Over-consumption is a big problem for both our waste disposal costs and the health of the planet.
- The ease of shopping is not to be underestimated when looking at the problem of over consumption and waste.
- The current model of big box stores connected together with shared parking (strip mall style) is highly successful for retail businesses in this country, and replicating this model with USED retail stores is a way to compete.
- Bringing specialized USED retail stores into one convenient shopping mall is a model that needs to be used and promoted widely to address the growing waste issue and to reduce the negative environmental impact that producing and shipping new products around the world causes.
- This model would help shift the linear model of make, take, and waste to a circular model of reuse, keeping valuable resources in the system.
- Alachua County would be a model county of sustainable waste management and reuse that can be replicated across the country, and Alachua County's example would greatly affect the future of our planet in a positive way.
- Alachua County would become a regional destination for shoppers as well as a national destination for people interested in the reuse economy bringing tourism to our area.
- There are many successful reuse operations but none are as large and as comprehensive as the one in this proposal. In order to compel consumers to buy used

instead of new and to find the demand for used material that will equal the supply, we need to make buying used and donating easy.

- We need a media campaign that focuses on reduce and reuse, the first two parts of the three R's that are neglected in most municipal waste management systems. Buy USED campaign!

MATERIAL FLOW OVERVIEW

- Donations:
 - Eco Industrial Park Sorting Facility - large volume donations or people already headed to Leveda Brown can drop off there.
 - Rural Collection Sites - enclosed trailers can be located at all rural collection sites to collect donations. Full trailers will then be brought to the Eco Industrial Park Sorting Facility.
 - In-town Retail Facility drop off - enclosed trailers can be located at in-town retail facilities to collect donations. Full trailers will then be brought to the Eco Industrial Park Sorting Facility.
 - Pickup Service - free for donations of a certain value, charge for donations of a lesser value and considered a service modeled on junk removal services.
 - Haz Waste Collection - haz waste collection trailer at in-town retail facility. Could prevent a substantial amount of haz waste from getting trashed curbside in trash bins instead of proper disposal due to the distance and trouble needed to get to Leveda Brown.
- Eco Industrial Park Sort Facility:
 - Quick sort Items - Items brought in are quick-sorted into large palletized Gaylord boxes that are destined for the specialized reuse store or put aside for specific non-profits.
 - Each specialized store has a designated area for their staff to process the items in order to clean, test, and price items.
 - Backstock Inventory Storage Space - Example: the 150 desks from a UF dorm. It doesn't make sense to bring them all to a retail store in town with limited showroom space. Instead, market the bulk furniture online, find a bulk buyer, or bring a limited inventory to the retail store to market the product and replenish inventory when needed.
 - Free store or bulk-by-the-pound store of less desirable material or material that hasn't sold in the retail store. Could be located onsite or possibly elsewhere.
- Retail Facility:
 - Sorted and priced inventory for each specialized store can be trucked to the retail outlet and displayed and marketed there.
 - If merchandise doesn't sell after a certain amount of time or if there is too much of that inventory, it will be sent to the Free Store & Salvage Yard or By-the-Pound Bulk Store.

- Locate small scale stores in rural areas of the county. The idea is to get into rural areas the same way that Dollar General has dominated the market in small towns. This also brings needed material to underserved areas of the county.
 - Free Store & Free Salvage Yard or Bulk By-the-Pound Store
 - The last chance before it gets dumpstered. Let's give it a chance and see what people come up with.
 - Recycle all that can be recycled of what is left.
 - Specifically focus on this leftover material when searching for remanufacturers that are using waste material in their products.
 - Specifically target these trashed items in educational campaigns so the material consumption is reduced.
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MORE DETAILED LOOK AT INFRASTRUCTURE & SYSTEMS NEEDED:

DROP OFF LOCATIONS for REUSABLE ITEMS:

- Bulk donations such as large trailer loads of material need to be brought directly to the Eco Industrial Park Transfer/Sorting Facility (15,000 sq ft building) - Need covered donation drop off area level with building slab so donations can be unloaded rain or shine and a forklift can be used to load and unload
- Rural Collection Sites need enclosed trailers for rural resident drop-offs - trailers need to be brought to Eco Industrial Park Sorting Facility when full
- Gainesville in-town dropoff trailer for ease of resident drop-off - Can be located at the Reuse Retail Stripmall Facility (consider haz waste drop off location here as well to improve collection of this material)
- Big mobilization needed at student out -
 - collection trucks or enclosed trailers located next to each dumpster on campus and at student housing
 - student collections volunteers trained with what to accept and how to pack stationed at trailers
 - contract with large student housing companies like Collier to haul reusable material away for resale at a lesser percentage than they are paying to haul trash

PICKUP SERVICE:

- People & students often put items on the curb or in dumpsters because they don't have a way to transport items to donation sites. Pickups help capture good material before it gets wasted.
- Some are not physically able to move large and heavy objects. We have learned this first hand from emails over the last 9 years. Calls from elderly couples downsizing are frequent. They want to donate but are not physically able to do it.

- It's much more fuel efficient to get one truck picking up multiple items on a route compared to individuals driving independently to our location to drop off thus reducing net carbon emissions.
- Pickups that are going to be worth the pickup can be offered free of charge.
- Pickups that we feel are going to cost more than they are worth at retail can be charged for and considered a service such as 1-800-GOT-JUNK but with the environmentally-friendly twist of salvaging all useful material.

RESOURCE RECOVERY SORTING & TRANSFER STATION (one structure):

- One structure: 15,000 sq ft building at Eco Industrial Park used for material drop-off, sorting, pricing, testing, cleaning, packaging, and palletizing for transport to specialized reuse retail store. Storage space for excess inventory storage.
- Covered drop off area so deliveries are protected from rain when unloading.
- Drop off area is level with warehouse so forklift can be used to load and unload.
- Large volume donations can be brought here.
- Residents can swing by resource recovery facility to unload useful items before bringing the remainder to Leveda Brown, saving the disposal tipping fee cost for items we accept.
- There are benefits to having a central sorting and distribution center:
 - Efficiency of one large system to handle the accepting and sorting of donations.
 - It makes it easy for people donating to bring all types of material to one location.
 - Reduces the burden of donations on organizations who either can't use them all or don't have storage space, yet they can access what they need as they need it.
 - Sorting and distribution is done at Eco Industrial Park in close proximity to remanufacturing operations.

CONSTRUCTION & DEMOLITION PROCESSING FACILITY (two structures):

- First structure: Large metal covered building with garage doors for adequate ventilation for processing building material, specifically lumber. Shop style.
 - De-nailing stations with pneumatic de-nailing gun, collect nails for scrap metal.
 - Cut stations to even up ends and make standard size lumber.
- Second structure: Covered but open tall metal roof structure for dumping 30 yard dumpsters of salvageable material from job sites to pull useful material. Typical looking transfer tipping floor like Florence's transfer station. Example: bricks and cinder block are in demand. If a 30 yard dumpster of brick comes in it can get dumped there. Whole bricks can be pulled out and palletized to transfer to building material retail store. Crushed leftovers can be scooped up with a skid steer and put back in dumpster for crushing into road rock.
 - Can include a kiln to dry wood and kill any possible insect activity
 - Lumber mill to finish & rough saw material
 - Bulk building material can be stored here as well for back inventory of building material retail store or direct delivery of bulk purchases
 - At least one staff member who is certified to grade and stamp lumber

RETAIL STORES:

- Salvaged Material “SUPPLY” is huge - in order to reuse the material and to find the “DEMAND” it needs to be made available to the entire public
- Benefit for low income people to travel to one location and get low cost needed items in one place
- In-town location makes it convenient and accessible to all, including those who rely on public transportation
- Retail Store will sell items and subsidize the labor force needed to operate a large operation
- Charging for items has some other benefits:
 - People who purchase items associate a value with those items and are less likely to turn around and trash them immediately.
 - Charging for items can eliminate conflicts between consumers over free stuff, which have happened in the past at free drop-off areas at the rural collection centers.
- Free items can also be available to some:
 - Items needed by local nonprofits can stay at the Resource Recovery Facility for pickup (example: Peaceful Paths needs unexpired child car seats and strollers). These in-demand items can be on a list so the nonprofit can collect them if needed.
 - There can be a voucher system in place for the organizations helping rehouse the homeless population so they can get needed household goods from an easily shoppable retail store. (Example: The VA houses homeless vets, and they need household items. Family Promise houses homeless families, and they need household goods including children’s clothing)
 - The stuff that doesn’t sell after a period of time can be offered for free at a connected free store or at a free store located on the Grace Marketplace campus or Eco Industrial Park or elsewhere.
 - The Alachua County School Board could purchase vouchers to give to teachers so they can get needed school supplies at no cost to the teachers. Money spent on salvaged teaching material will go much further than would funding on new material.
- Large parking lot is needed to make shopping easy.
- Online sales of certain items can definitely be utilized to reuse or repurpose harder to place or more specialized items. Example: we have had an ultrasound machine for months; it’s worth a lot online but no local interest
- **REUSE BIG BOX SPECIALTY STORES NEEDED** - This retail facility needs to have specialized stores and large square footage and inventory to replicate the style and ease of big box stores.

- Home improvement and garden center - lumber, hardware, appliances, sinks, toilets, kitchen cabinets, tools, bulk material, architectural salvage, lighting fixtures, paint
- Clothing & shoes - accessories, belts, purses
- Housewares - kitchen, bath, bedroom, throw pillows, curtains, decor
- Electronics reuse & hacker store - working electronics, broken electronics for parts or repair, components like computer chips, motors
- Recreation - sports equipment, camping
- Toys - toys, kids clothes, baby supplies
- Book store/media/coffee shop
- Craft - Creative Reuse - teacher store
- Office supply - paper, pens, folders, pack and ship material, office furniture
- Furniture - Ikea style with set up rooms all the way to salvage items and furniture parts at the back that need refurbishing or for parts
- Antique, vintage, collectibles store
- Refurbished and repurpose consignment market & art gallery for artists who remake items
- Party and Holiday store - party supplies, gift wrap, holiday, Christmas, Halloween, costume shop, Valentines, St Patrick's Day, Thanksgiving, birthdays, wedding supply, etc. Could include a party rental or theater/set rental department
- Repair shop - to address the high volume of items that are still usable and just need to be repaired
- Smaller satellite stores can be located in the smaller towns based on Dollar General type of store model and merchandise.

Organizations/Businesses that might pay for rent to be in the reuse mall or given space if their work is valuable to the community

- Friends of library - books & media
- Freewheel Project - bicycles & bike shop
- Sandy's Upscale Consignment Boutique - upscale clothing
- Plato's Closet - teen & young adult clothing
- Flashbacks - retro clothing
- Play It Again Sports - sporting goods
- Wee-cycle - used kids stuff

DELIVERY SERVICE:

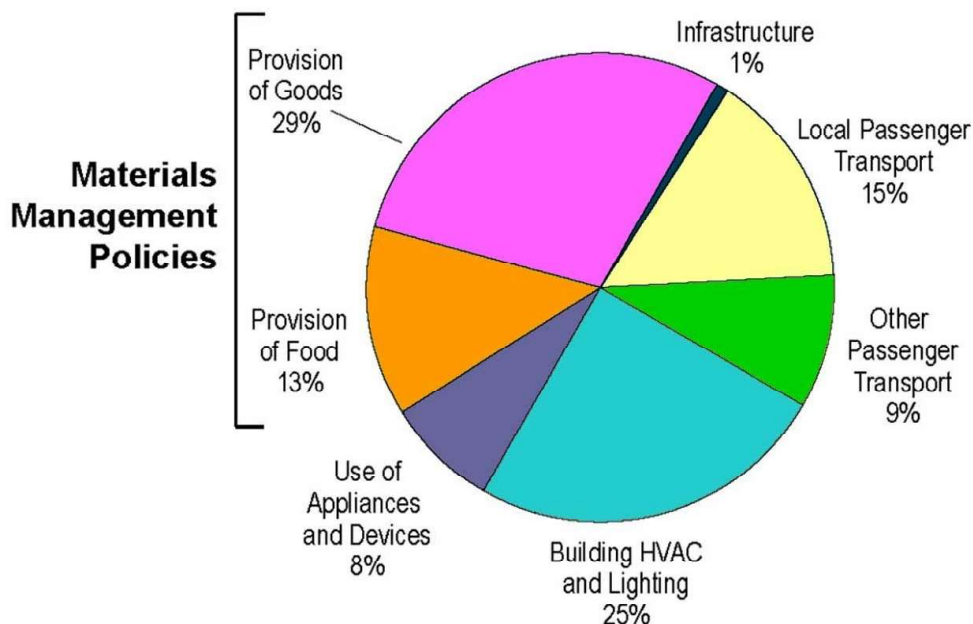
- It is difficult for many people to move large furniture. Many of the students in town don't have a car. A delivery service will help us sell used material to those who can't transport it easily themselves. A reasonable delivery fee will ensure that they do it themselves if possible, and the fee will cover the added cost of trucks, staff, fuel and maintenance.
- Cost of a used item plus delivery fee should still be a net savings for purchasers.

- Most stores that sell large items such as furniture or appliances offer a delivery service. In order to compete with the new retail market, a delivery service is essential.
- Example: It is easier for a college student to drive to Target and buy a particle board shelf in a box, bring it to their dorm room, assemble it, throw away the packaging, and then throw it away at the end of the year because he or she doesn't want to store or travel with it compared to buying an already assembled shelf at a thrift store. The only way to compete with the convenience of new retail outlets is to offer a delivery of the already assembled thrift store shelf. The used shelf, even with a delivery fee, should be less money than a new shelf.

EDUCATIONAL CAMPAIGN:

- 29% of greenhouse gases are because of our stuff. Over-consumerism is harming our planet, and people need to make that connection.
- Buy USED vs. NEW campaign is needed
- Connecting the concept that the manufacturing and shipping of the new stuff we purchase is contributing greatly to climate change.

**Systems-Based View of U.S. GHG Emissions (2006):
Highlighting Materials Management**



Source: "Opportunities to Reduce Greenhouse Gas Emissions through Materials and Land Management Practices"
EPA Report - Office of Solid Waste and Emergency Response
September 2009

USER FRIENDLY PUBLIC SEARCHABLE MATERIAL DATABASE ONLINE FOR DIVERSION:

- This will help let people know what material can be reused and/or recycled and where they can bring it.
- The Repurpose Project fields questions daily about what can be recycled curbside and where different materials can be brought for reuse. Talking one-on-one with individuals isn't very efficient compared to a quick online database search.
- Example: office supplies search will let residents know they are accepted at any of the rural collection trailers, sorting facility at eco park, and at the in town reuse retail mall collection trailer.
- Example: mattress search will let them know that they are accepted by Christians Concerned for the Community or at the mattress recycler located at the Eco Industrial Park with drop off location address. Of course, this is assuming there will be a mattress recycler at the Eco-Industrial Park.
- Info about how items are reused or recycled can also be listed here.
 - Example: plastic grocery bags can be brought to Walmart, Publix, or Best Buy
 - Example: partially used shampoo can be brought to Grace Marketplace for the homeless or dropped off at the Eco Industrial Park sorting facility for Grace Marketplace pickup.
- Businesses and nonprofits that have a need for material can submit information so they can be added to the database for direct donations if desired. Nonprofits might prefer the central drop off and distribution center at the Eco Industrial Park because donated materials are often a burden for nonprofits due to logistics and space constraints.
- Also, curbside recycling questions can also be answered here. Example: black plastic can not be recycled in your curbside bin.
- Ann Arbor has a great material search & info for reference - <https://recycleannarbor.org/a-z-recycling-guide>

EQUIPMENT NEEDED:

- Box trucks with liftgates
- Forklifts
- Skid steer loader
- Shelving
- Enclosed trailers

GETTING NEEDED MATERIALS TO NONPROFITS: The Repurpose Project works with many different organizations and has learned that donations can often be a burden because of logistics, space constraints, and receiving unwanted items. Many nonprofits continue to do their best to handle donations because they need items for their missions, most notably rehousing the homeless population requires furniture.

- Nonprofits can request items through a simple online application.

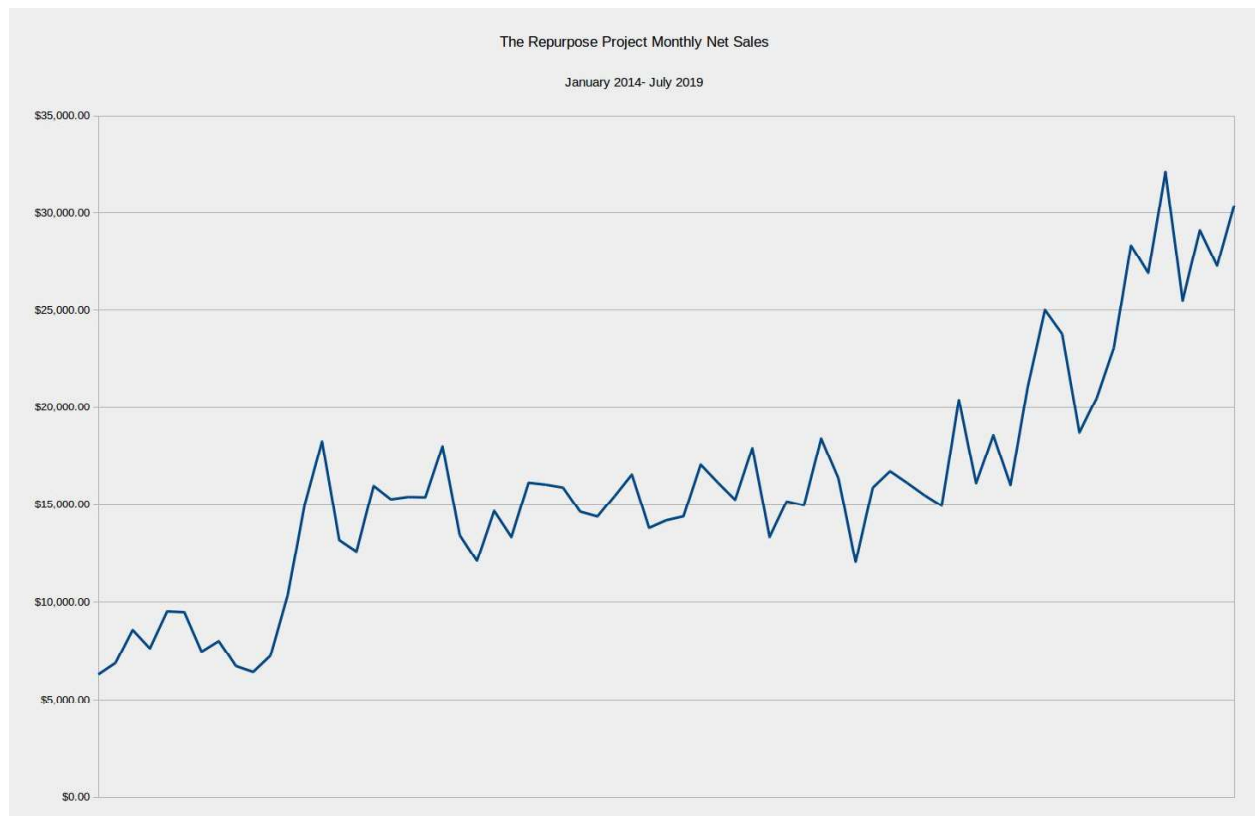
- Nonprofits that provide housing to the homeless population can apply for and in turn give away vouchers to those being housed. This will allow the person getting placed in housing the dignity of shopping for furniture and household items they like instead of getting whatever they are given. Example: a family being put in housing might prefer to spend more of their vouchers on a dining room table they love but don't care about the shelves or prefer a cheaper dresser.
- Family Promise, a nonprofit that houses families, has heard our plan and has given us a letter of support for this proposal.
- Vouchers can also be used to help people in need get professional clothing.
- A nonprofit should never need to spend money on office chairs or tables or binders. These are some items that are very plentiful in this town.

The Repurpose Project would like to contract with Alachua County to implement this reuse plan and run these facilities.

The Repurpose Project Background Info:

- The Repurpose Project is a non-profit community based effort to divert useful resources from the landfill, redirect these items to the public for art and education, inspire creativity, and help us all rethink what we throw away.
- We are a 501(c)3 non-profit organization, so people and businesses can claim their tax deductible donations according to current law.
- Because we are a non-profit, we are motivated by our mission and not for individual or corporate profit. We put all profits back into improving our waste diversion efforts, including education, increasing staff as well as increasing wages and benefits for our staff. We believe strongly in paying a living wage.
- We were founded in January 2012. We have devoted the last eight years to finding solutions for the growing waste problems that weren't already being addressed by available reuse stores or the county.
- We started as an all volunteer-run organization with literally zero funding but have grown quickly to be a financially self-sustaining green business that:
 - Employs 15 staff members
 - Pays a living wage starting at \$13/hr plus PTO, which essentially means \$13.50/hr (by comparison Publix cashiers in Florida start at \$8.50/hr, Dollar General starts at \$8.50/hr, Walmart starts at \$11/hr, and Best Buy starts at \$10/hr)
 - Is open 6 days a week and averages 80 point of sale transactions daily of sales of used goods (easily over 1000 used items per day)
- We have developed innovative ways to sort and process difficult material in order to get it back into the hands of those who can use it

- We de-nail salvaged lumber with a pneumatic denailer that shoots nails back out of the boards
- We have a de-nail station that collects the used nails for scrap recycling
- We have a cut station to cut lumber to standard lengths so they are easily used by students who sometimes build shelves without the need for power tools
- We have developed a micro sorting system to sort small items like:
 - Office supplies: pens, pencils, paperclips, rubberbands
 - Creative reuse items: bottle caps, marbles, keys
 - Sewing & craft: ribbon, zippers, buttons
 - Please note that small items like these are usually not processed by thrift stores because of the labor and other logistics necessary.
- We have amassed a large resale clientele through our social media outlets: Facebook, Instagram, Twitter, Craigslist & Pinterest.
- We have a very diverse customer base: rich, poor, liberal, conservative, old, young, all races, all religions.
- We have gained broad community support in part because we have focused our outreach and marketing on non-politicized aspects of our mission. People can all get on board with the idea that resources are valuable and should be respected and used and not wasted. Perhaps some are more on board with reducing planetary harm, and some are more interested in getting a good deal on material, but nobody thinks salvaging and reusing the material already available in our community is a bad idea or a waste of time.
- We have formed many partnerships in town:
 - University of Florida
 - Regular pickups of reusable items from clean-outs and remodels
 - Collaboration with UF School of Architecture for their Design Build classes to help students utilize salvaged material and learn the basics of construction
 - Partnership with UF School of Art to host art interns that focus on using salvaged material
 - Interns from the UF Entrepreneurship & Innovation Center
 - Nonprofits
 - Family Promise - housing program for homeless families
 - Peaceful Paths
 - Grace Marketplace
 - HUD VASH - housing program for veterans
 - Christians Concerned for the Community
 - Reuse Alliance - we recently formed an alliance with other reuse retailers in the area to collectively promote buying used and to share resources because in part, we recognized we are all looking to find diversion streams for various items, and we were dumping on each other in a circular fashion.



BACKGROUND INFO ON SARAH GOFF, PROPOSAL AUTHOR:

- Co-founder of The Repurpose Project
- Board member of Trash to Treasure Creative Reuse Center in Fort Lauderdale for 4 years prior to starting The Repurpose Project
- 13 years researching and studying valuable material in the waste stream with the goal of developing innovative ways to divert, reuse, and reduce that waste
- BA from New College of Florida, The Honors College of Florida. Double major: Natural Science and Fine Art
- Grew up from age 4-19 in The Marshall Islands, ground zero for sea level rise and centrally located among the plastic trash vortex in the Pacific Ocean. Half of the Marshallese population has already immigrated to the United States. Growing up there has been a large reason and motivator to dedicate her life to climate change and trash issues.

CONCLUSION:

- The Repurpose Project would like to contract with Alachua County to add reuse as an integral part of the county waste management system and make Alachua County a leader in sustainability and a model of material recovery worldwide.
- The Repurpose Project believes this extensive and all-encompassing plan is essential to make the bold changes necessary to combat the climate crisis.

- We recognize that scaling up to this degree is going to take investment up front, and we would like to partner with the county to make this happen.
- We also recognize that scaling up needs to be done incrementally. If the county is interested in this initiative, we would like to suggest a pilot program involving: operating the 15,000 sq ft facility at the Eco Industrial Park, enclosed trailers located at rural collection sites, trucks for pickups and deliveries, and a retail facility or two (possibly the vacant old Winn Dixie and Harbor Freight on North Main Street or perhaps a county-owned property).
- We would like to propose implementing the entire program over the next 3-5 years.

RESOURCE LINKS TO INNOVATIVE REUSE INITIATIVES:

Reuse Facility attached to a transfer station:

- Retuna Reuse Mall in Sweden: <https://youtu.be/id9I9o6yxC8>
- Last Chance Mercantile - County reuse store as part of a resource recovery park
<http://www.mrwmd.org/wp-content/uploads/2017/11/mrwmd-annual-report-2016-final.pdf>
Video link to Last Chance Mercantile - <https://vimeo.com/201974198>
- Boulder Reuse Center - <https://ecocycle.org/charm>
- Reuse and Recycling Center (Sonoma County, California)
<https://sonomacounty.ca.gov/TPW/Integrated-Waste/Reuse-and-Recycling-Center/>

Large Reuse Stores run in collaboration with municipalities

- Ann Arbor Reuse Store <https://recycleannarbor.org/divisions/reuse-center/services/shop>
 - 2017 Government grant \$2,500,000
 - 2017 Total Revenue \$5,700,000
 - 20,000 sq ft retail store

Material Diversion and Reuse Search

- Great example - (Ann Arbor, Michigan) <https://recycleannarbor.org/a-z-recycling-guide>

Architectural Salvage

- Boulder Architectural Salvage & Tool Library - <https://resourcecentral.org/>
- Eco Relics Architectural Salvage - Custom Design Woodshop (Jacksonville, FL)
<http://ecorelics.com/eco-relics-products/custom-woodwork-at-eco-relics-wood-shop/>
- Community Forklift (Washington, DC) - <https://communityforklift.org/>

Creative Reuse Centers

- Scrap PDX (Portland, Oregon) - <https://scrappdx.org/>
- Scrap Exchange Reuse Arts District (Raleigh, North Carolina)
<http://scrapexchange.org/reuse-arts-district/>
- East Bay Depot for Creative Reuse <http://www.creativereuse.org/>

Online Reuse Sites:

- **Repurposed Materials -**
https://www.repurposedmaterialsinc.com/?p=catalog&mode=search&search_str=Billboard&search_in=all

Fix-It Events

- <https://www.routeifty.com/health-human-services/2019/08/cities-fix-it-clinics-broken-things/159424/>

Student out collection / student in sales:

- Dump and Run - <https://living.cornell.edu/live/movingin/dumpandrun/>

Tree Reclaiming

- <http://www.urbanwood.org/>

Recycling Articles:

- **Recent Alachua Recycling article -**
<https://www.google.com/amp/s/www.gainesville.com/news/20190629/alachua-county-pushes-recycling-but-market-is-down%3Ftemplate%3Dampart>

Reuse Explorations Guide - Innovative Programs and Strategies

https://nerc.org/documents/Reuse/Reuse%20Explorer%20Guide_FIN.pdf

For reference:

BIG BOX STORE	AVERAGE SQUARE FOOTAGE
Target - big box	135,000
Lowes - building material	144,000
Best Buy - electronics	40,000
Barnes & Noble - Books	26,000
Ikea - Furniture	300,000
Michaels - Craft Store	18,000
Bass Pro Shop	20,000-535,000