

9:45 am Pacific Time
October 3, 2024

Track B



Concurrent AM

Salvage This! Designing Reuse Economy Systems

Speakers:

**Amanda Rice Waddle
Stephanie Phillips
Katie Fitzhugh**

Moderator: Stacy Savage

Hosted by:



Day 2 • Zero Waste Communities

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Stacy Savage

Founder & CEO

**Zero Waste Strategies LLC
(Moderator)**

**Salvage This! Designing
Reuse Economy Systems**



National Zero Waste Conference 2024

Day 2 • Zero Waste Communities

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Amanda Rice Waddle

**Director of Zero Waste
The Repurpose Project**

**Salvage This! Designing
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Curbside Reuse Study Results and Recommendations

Amanda Rice Waddle, Director of Zero Waste

Gainesville, Florida



Nonprofit Organization with the mission to build a reuse economy to help people and the planet





Curbside Reuse Study

Study Objectives

Assess the **quantity, quality, and value** of items left at the curb for disposal.



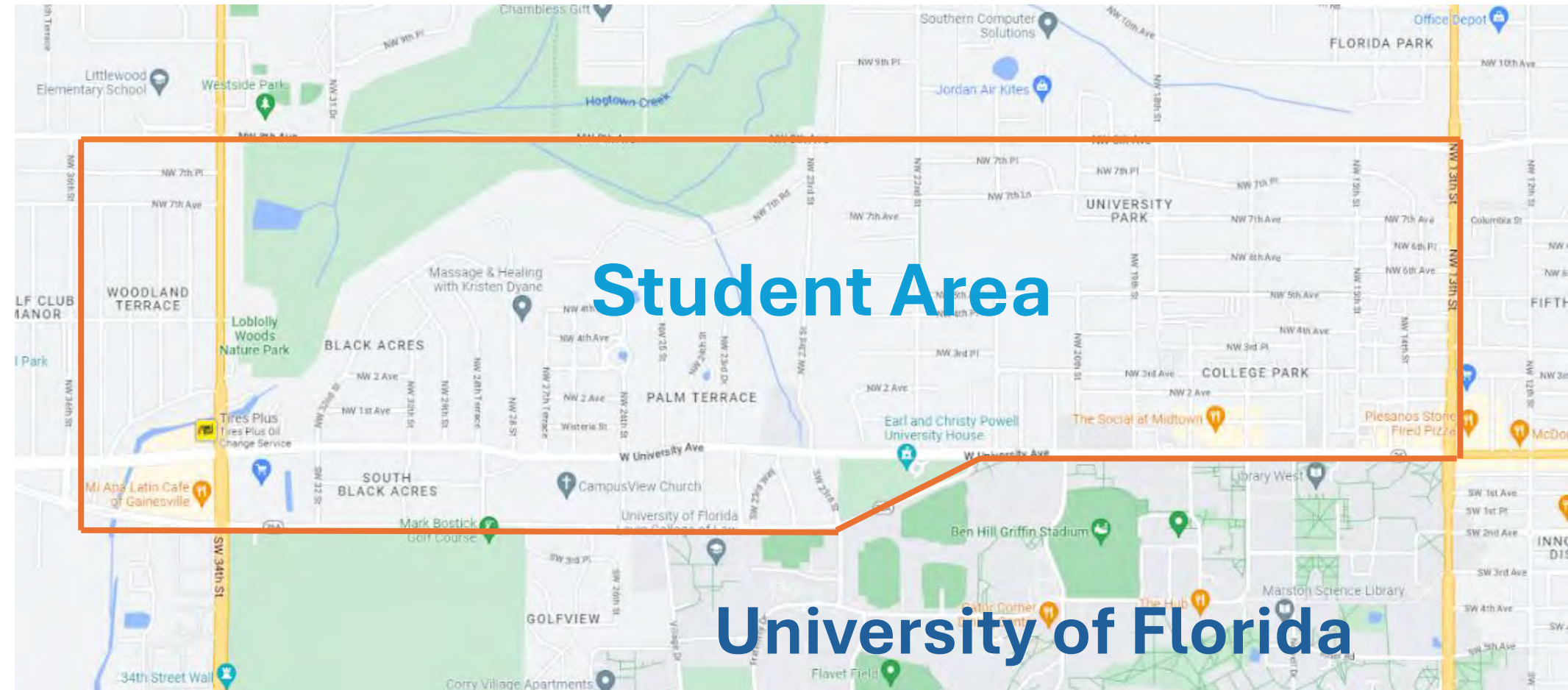
Study Questions

1. Were the piles of items mostly put out during the weekend or the night before their collection day?
2. Were the piles scavenged by community members before collection day?
3. What percentage of piles included sellable items for the local reuse economy?
4. What types of materials are left at the curb?
5. Is there value in the materials left at the curb?

Curbside Reuse Study Methods

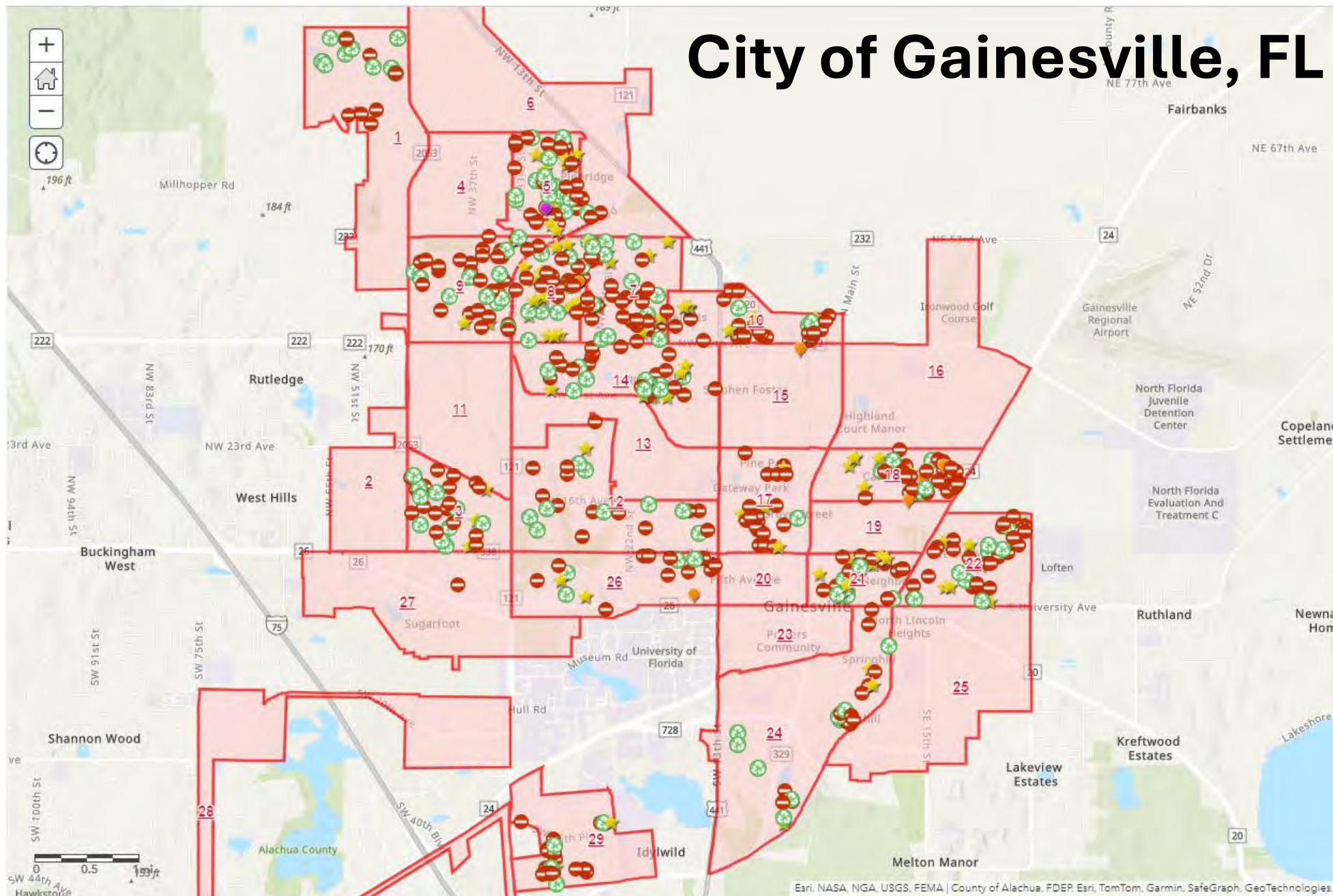
Student Area

- Drove the Same Route 17 Times
 - One time per day – 17 days
- Route included 3202 Houses
- April / May
- July / August
- ArcGIS Field Maps App
 - Pictures, pin drop, codes
- Pile Assessment



Curbside Reuse Study Methods

City-Wide Area



- Drove each Route 3 Times
 - First drive with city staff
 - Second drive with city staff
 - Third drive Repurpose Project staff
- 17 Routes
 - 800-1200 houses per route
- ArcGIS Field Maps App
 - Pictures, pin drop, codes
- Pile Assessment

Piles, Material Categories, & Assessments

Pile – the group of items at the curb. This can consist of one or more items.

Material Categories:

- Appliances, small
- Appliances, large
- Clothing and other textiles
- Construction & Demolition
- Electronics
- Furniture
- Household
- Mattresses
- Metal
- Other
- Toys



Curbside



Store



Intake



Sales



Results and Sales Data

Study Information	Student Area	City-Wide
Field Days	17	31
Items Collected	301	199
Items to Repurpose Project or Scrap	25	44
Items Barcoded and Tracked	276	155
Items Sold within 90 Days	256	140
Items Didn't Sell	20	15
Percentage of Items Sold	93%	90%
Weight of Items Sold (pounds)	5,451	3,977
Value of Items Sold	\$3,376	\$2,430
Value Per Pound	\$0.62	\$0.61
Estimated Value Per Ton	\$1,238.64	\$1,222.03

Results and Sales Data

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Study Questions Answered

Study Question	Student Area	City-Wide Area
Were the piles of items mostly put out during the weekend or the night before their collection day?	NA	Both Weekend and Night Before Collection
Were the piles scavenged by community members before collection day?	NA	Yes, up to 38% of the Piles
What percentage of piles included sellable items for the local reuse economy?	Collected 61% of Items at the Curb Sold 93% of Collected Items	Collected 33% of Items at the Curb (after community scavenging) Sold 90% of Collected Items
What types of materials are left at the curb?	Furniture, Household, Clothing	Household, Furniture, C&D
Is there value in the materials left at the curb?	Yes, \$3,376 – value of items sold	Yes, \$2,430 – value of items sold

Curbside Reuse Study Recommendations



- Reuseable Item Pickup Service as part of the curbside service
 - Reusable pickup days
 - Student moveout collection program
 - Once yearly on-demand reuse pickup service
 - On-demand reuse pickup service



Curbside Reuse Study Recommendations

Education and Outreach – best practices for items at the curb



Next Step – meeting with city staff and elected officials to discuss the recommendations!

Transfer Station Study – Grant from Alachua County



Objectives:

- Assess the quantity, quality, and value of items brought to the TS for disposal.
- Collected over 1500 items in 25 days of fieldwork
- Tracked the sale of **981 items**
- Results are coming soon!

Thank you!

Thank you, City of Gainesville, for funding this project

Amanda@repurposeproject.org



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Stephanie Phillips

**Senior Manager, Deconstruction &
Circular Economy**

**City of San Antonio
Office of Historic Preservation**

**Salvage This! Designing
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Advancing Reuse Through City Policy & Creative Leadership

Stephanie Phillips
Senior Program Manager
Deconstruction & Circular Economy



**HISTORIC
PRESERVATION**



On this day

8 years ago



Shanon Shea Miller



Nov 3, 2016 · 👥

This is on my list for San Antonio. Let's do it in 2017. It makes sense for so many reasons. [#sapreservation](#)



John Leeke

Nov 2, 2016 · 🌐

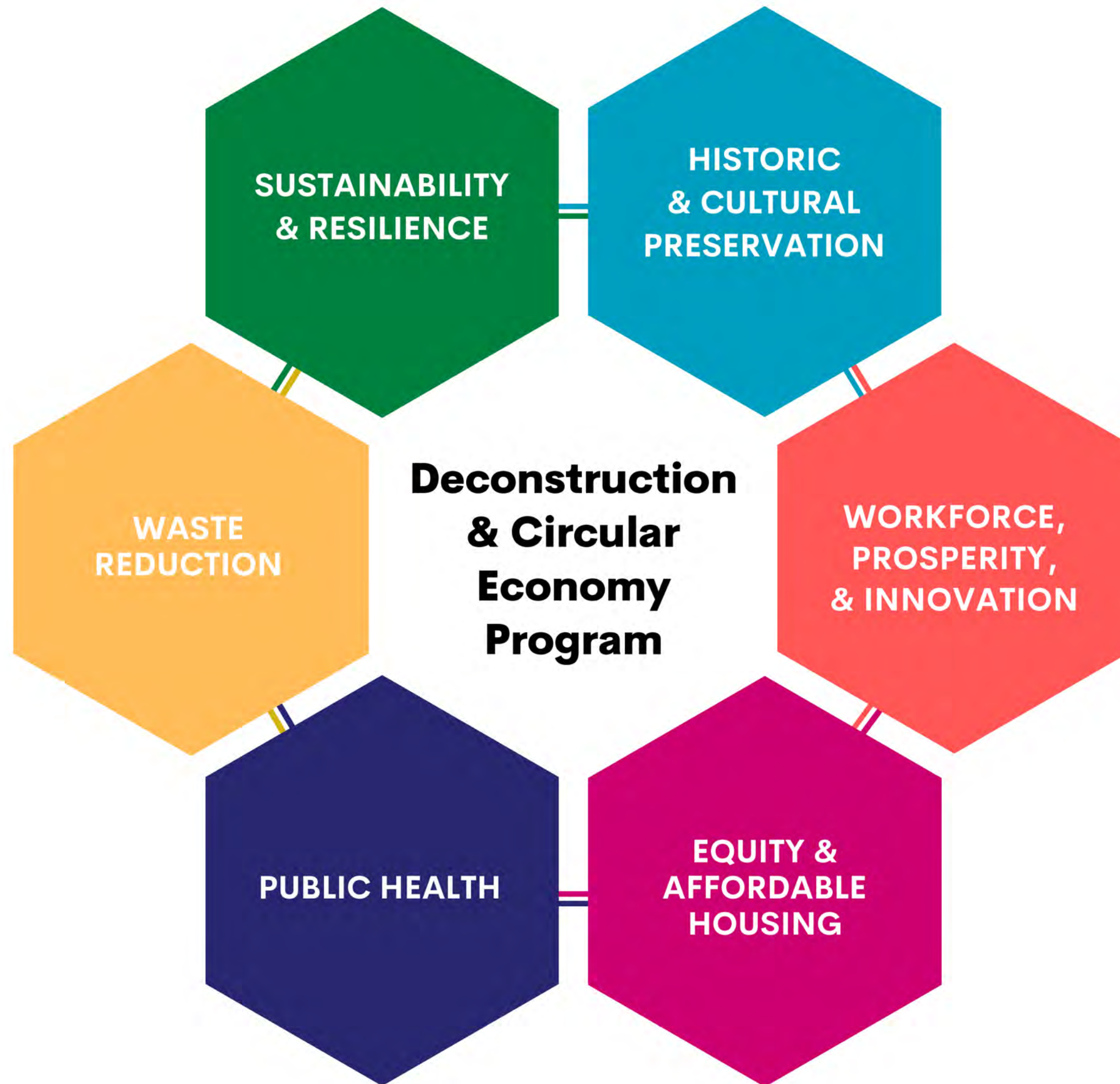
Amazing, not only because it will limit tear-downs and materials will get reused; but more importantly, because tradespeople will learn first hand h... See more



restoreoregon.org

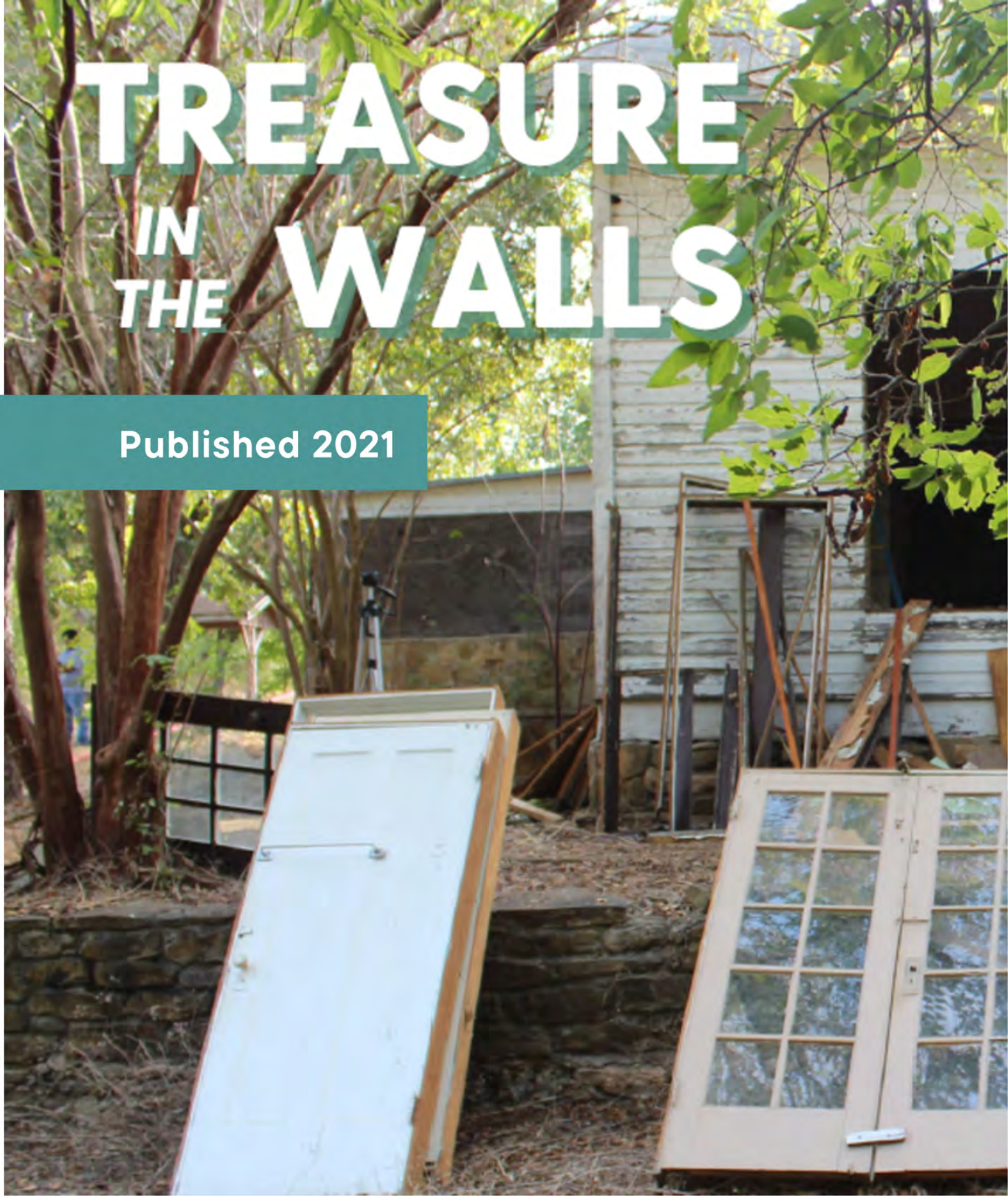
Portland First in Nation to Mandate Deconstruction of Historic Homes





TREASURE IN THE WALLS

Published 2021



Why commission a study?

Fill data gaps (i.e., volume of materials landfilled)

Cull new data (i.e., dollar value of materials landfilled)

Public health and environmental implications

Impact of an ordinance on workforce, economy, and reuse marketplace

Deep analysis of local demolition permit trends

Demonstrate ways ordinance could meet local and regional plans

Clearer understanding of relationship between building removal and affordable housing

Recommendations specific to San Antonio

Key issues in San Antonio

Source: www.SAreuse.com/reports



\$16 million of building materials were landfilled in the past decade

Aiming to shift to sourcing local materials from our "urban forest" for near-immediate reuse



Demolition disproportionality affects vulnerable communities

Increased safe abatement; reduction of water usage, GHG emissions, & waste



More than 600 buildings are demolished annually

More than 70% increase since 2012; the most common building type demolished is older housing



There is an equity issue in material access & availability

Limited reclaimed materials means limited access by a diverse array of stakeholders

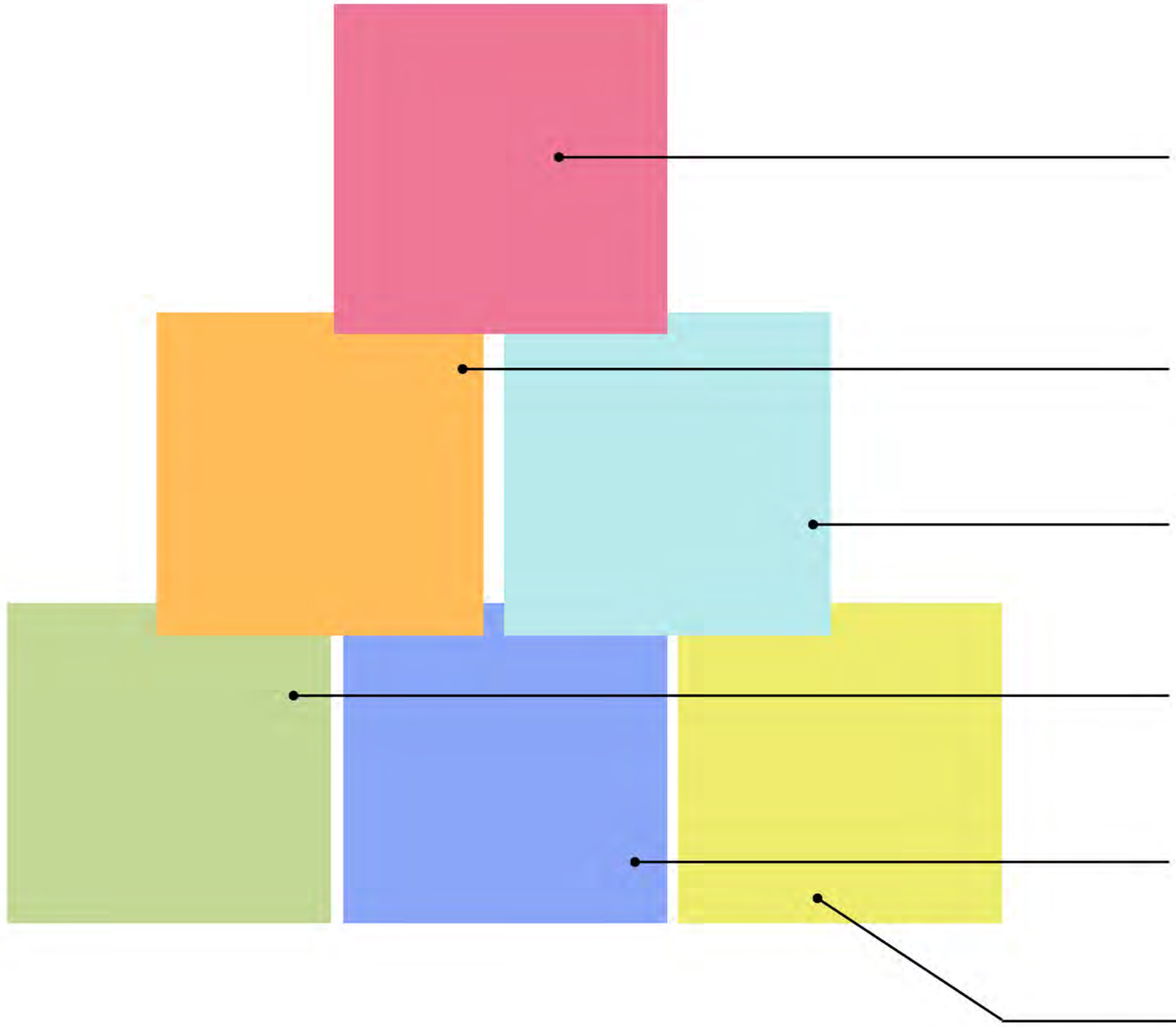


**THE
THING!**

Deconstruction Ordinance

Adopted September 2022

San Antonio's oldest small-scale housing stock is now required to be deconstructed and salvaged.



Deconstruction Ordinance

Deconstruction Workforce

Who is going to do all the work?

Reuse Infrastructure (Facilities)

Where is all the material going to go?

Community Engagement / Buy-In

Why does this matter to me and my community?

Developing Partnerships

Who should be involved? How can they help to ensure success?

Data Collection & Storytelling

How will this impact San Antonio specifically?



Training a Workforce

Service providers

2019: 5

2024: 25+

City Infrastructure




Like an organ donor, a structure may have reached the end of its life, but its parts and pieces could help extend the lives of dozens of other local structures.



Before



After

City of San Antonio's impact  All time

Weight diverted	Value recaptured	CO2e avoided
4.1k lbs	\$28.4k	6.2k kg



Reclaimed Paneled Wood Doors in Jamb with Operable Transom

Used – Good

4 available

City of San Antonio > Material Innovation Center



Reclaimed Large Industrial Pendant Lights

Used – Good

8 available

City of San Antonio > Material Innovation Center



Reclaimed Porcelain Pedestal Sink with Faucets

Used – Good

4 available

City of San Antonio > Material Innovation Center



Reclaimed Decorative Door and Window Trim (4' – 6' in length)

Used – Good

30 available

City of San Antonio > Material Innovation Center

Reuse as Community Resilience

01

Fostering community through exchange

Creating a culture of abundance and knowledge-sharing for all of our neighbors

02

Equity of access and affordability of resources

Ensuring the opportunity for everyone to access tools and materials improve and repair their neighborhoods

03

A more resilient and circular future

Breaking our make-take-waste cycle and establishing the foundation for a more localized, circular material ecosystem

The landfill doesn't deserve these materials.

Our communities do.



Thank you!

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www.SApreservation.com
www.SAreuse.com



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Katie Fitzhugh

**Interim Executive Director &
Director of Deconstruction**

Re:Purpose Savannah

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RE: PURPOSE SAVANNAH



OUR MISSION

Re:Purpose Savannah is a women+ led 501(c)3 nonprofit establishing a sustainable future through the deconstruction, salvage, and reuse of historic buildings.

90%



1/3



475





DECONSTRUCTION TRAINING



LOCATIONS

SAN ANTONIO, TX

ATLANTA, GA

CONWAY, SC

SAVANNAH, GA

ONTARIO, CANADA

HOW WE DO THINGS

INSPECT & ASSESS	DETERMINE HOW BUILDING CAN BE BEST UNBUILT
SALVAGE AUDIT	TAX DEDUCTION ESTIMATE FROM CERTIFIED APPRAISAL
DOCUMENTATION & RESEARCH	3D SCANNING + EXTENSIVE HISTORICAL RESEARCH
DECONSTRUCTION	PERMITTING AND DECON TO CLIENTS PARAMETERS
PROCESS & SALVAGE	FOR REUSE BY CLIENT OR FOR RESALE
REPORT	DATA OF TONNAGE DIVERTED

HOW THEY ARE NORMALLY DONE

INSPECT & ASSESS	PROVIDE DEMO ESTIMATE (MAYBE INCLUDES PERMITTING)
DEMOLITION	CRUSH AND LANDFILL

HOW WE DO THINGS



HOW THEY ARE NORMALLY DONE





TRAINING COSTS

- situationally specific
 - grants
 - private funding
 - revenue
 - government funds

SAN ANTONIO, TEXAS

















ATLANTA, GEORGIA















CONWAY, SOUTH CAROLINA



Conway
Architectural
Salvage &
Heritage
Project



PEOPLE
PLACE
PLANET

SURE-TRAC









Carter
Architectural
Salvage Co.
Heritage
Project
REUSE
REPAIR
RECYCLE



SAVANNAH, GEORGIA



REFERENCE TO SQUARES

- 1 Washington Square
- 2 Warren
- 3 Reynolds
- 4 Johnson
- 5 Ellis
- 6 Franklin
- 7 Green
- 8 Columbia
- 9 Oglethorpe
- 10 Wright
- 11 St. James
- 12 Liberty
- 13 Crawford
- 14 Chippewa
- 15 Orleans
- 16 Elbert
- 17 Troup
- 18 La Fayette
- 19 Madison
- 20 Pulaski
- 21 Whitefield
- 22 Calhoun
- 23 Monterey
- 24 Chatham

CITY OF









What kind of grants are out there?

Community Grants

State Grants

Corporate Grants

Federal Grants

Foundation Grants

*start with the google.

