

DECONSTRUCT TOWARD ZERO WASTE

CAROLINE KOSTAK

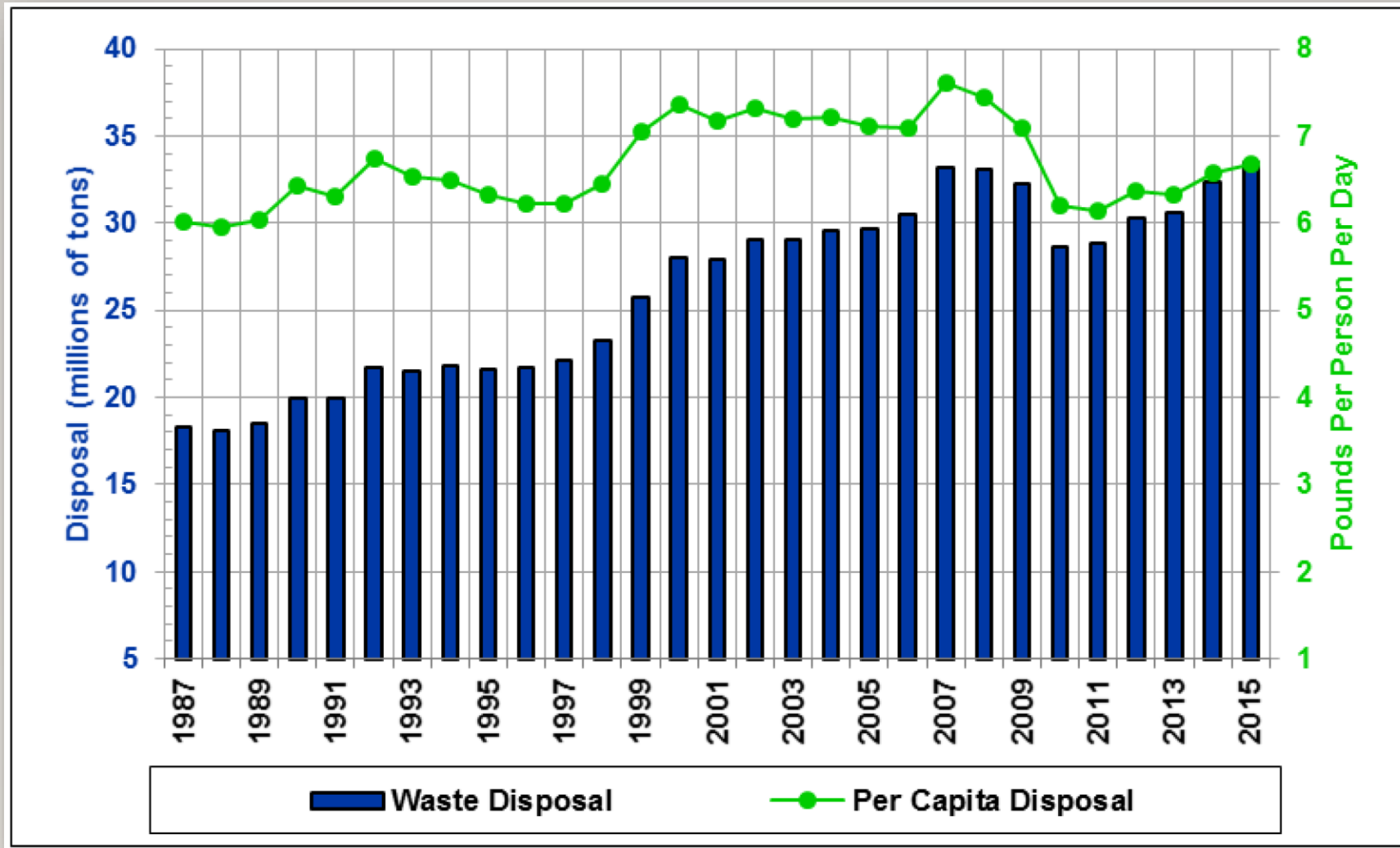
REPURPOSE DEPOT & THE REUSE PEOPLE



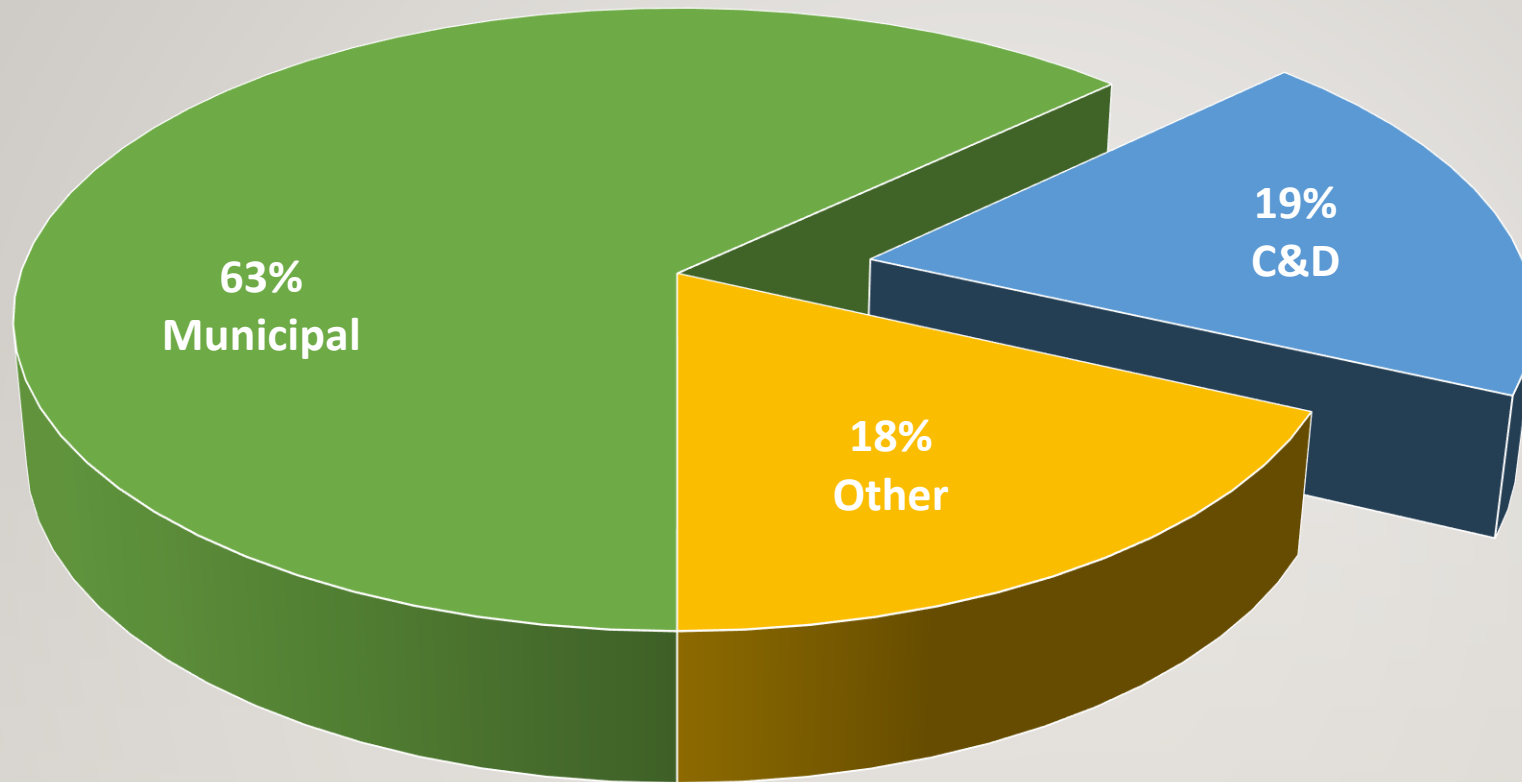
DECONSTRUCT TOWARD ZERO WASTE

- **WASTE:**

**A RESOURCE IN THE WRONG PLACE
AT THE WRONG TIME**

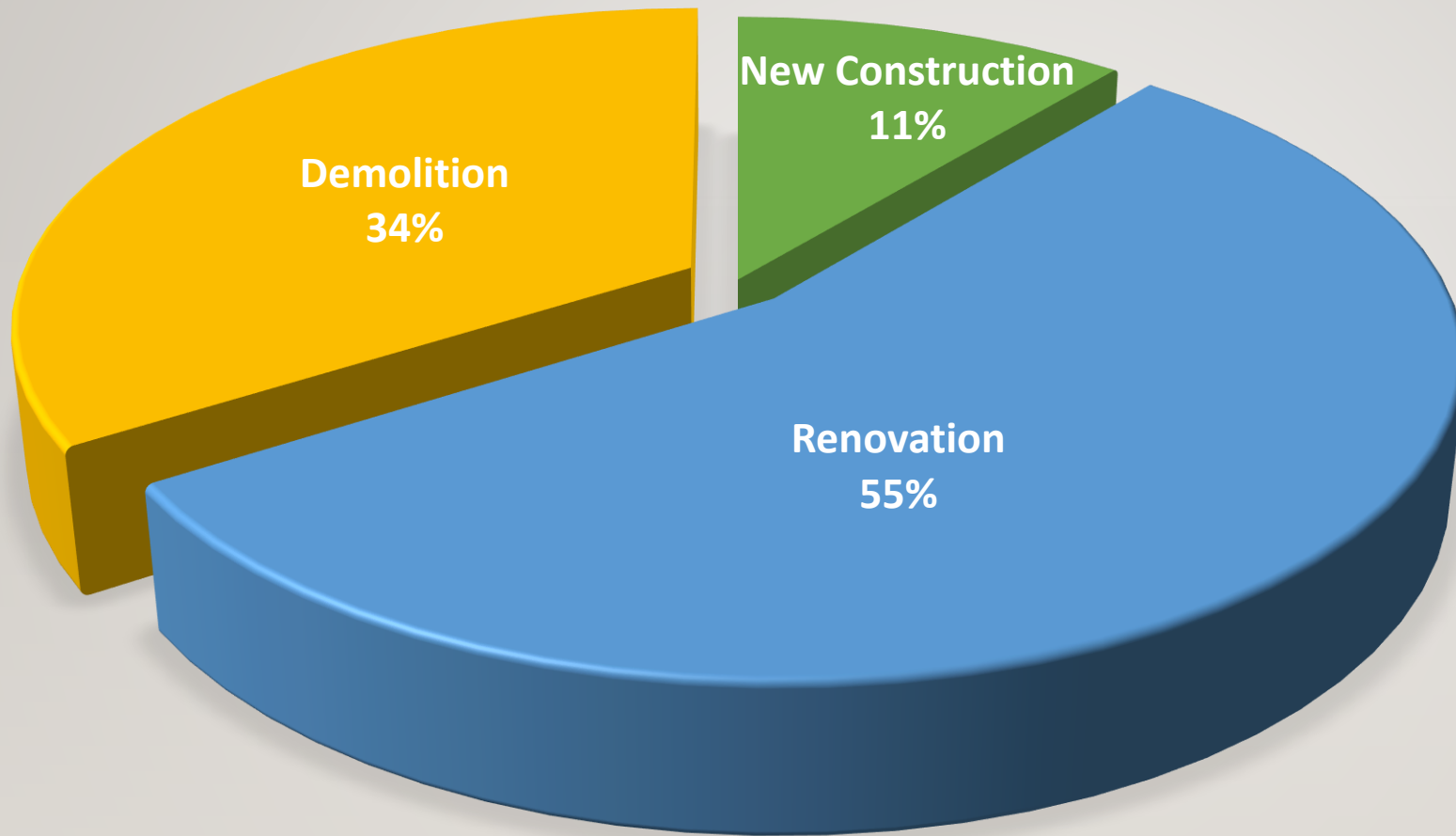


Total Tons & Per Capita Rate for Texas Municipal Solid Waste, 2015



Breakdown of Waste Types Landfilled in Texas for 2015%

Construction & Demolition Waste Composition



Franklin Associates,
*Characterization of Building-Related Construction and
Demolition Debris in the United States*

TCEQ estimates that local MSW Landfills (Type I) have **60 years** of remaining capacity in the H-GAC region%

Table 3. Disposal Amounts and Remaining Capacity by Facility Type in 2015

Facility Type	Number of Landfills	Disposal (Tons)	Remaining Capacity (Tons)	Remaining Capacity (Years)*
I	98	29,892,217	1,779,762,464	60
IV	22	3,217,075	66,408,231	21
IAE	32	167,441	8,417,471	50
IVAE	21	36,599	2,778,277	76
IAE and IVAE	18	130,897	8,242,498	63
Monofill	8	5,331	175,433	N/A
Totals	199	33,449,560	1,865,784,374	56

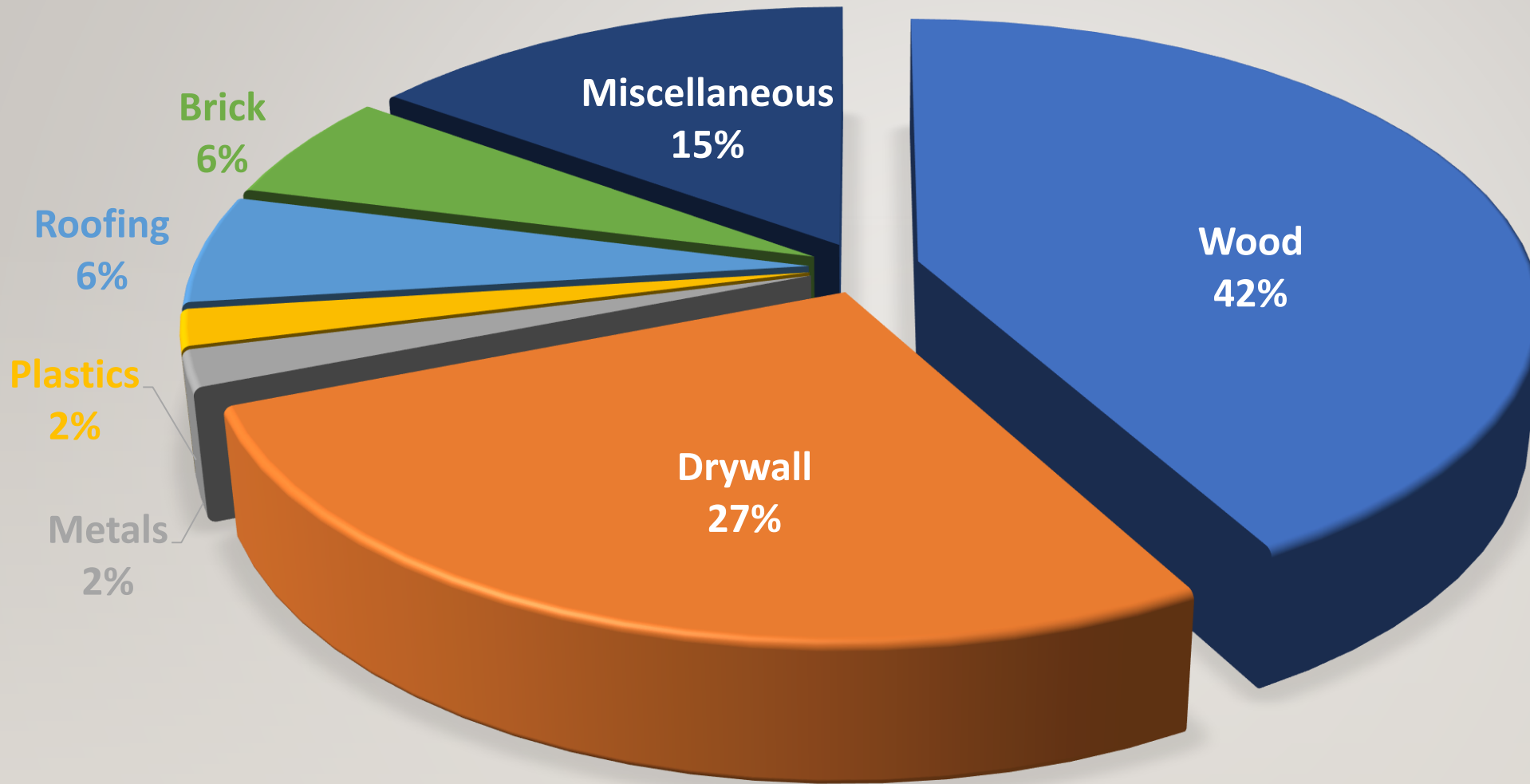
% TCEQ Municipal Solid Waste in Texas: A Year in Review, 2015



And
21 years
in C&D
landfills
(Type IV)
in all of
the state
of Texas%

% TCEQ Municipal Solid Waste in Texas: A Year in Review, 2015

Construction Waste by Weight

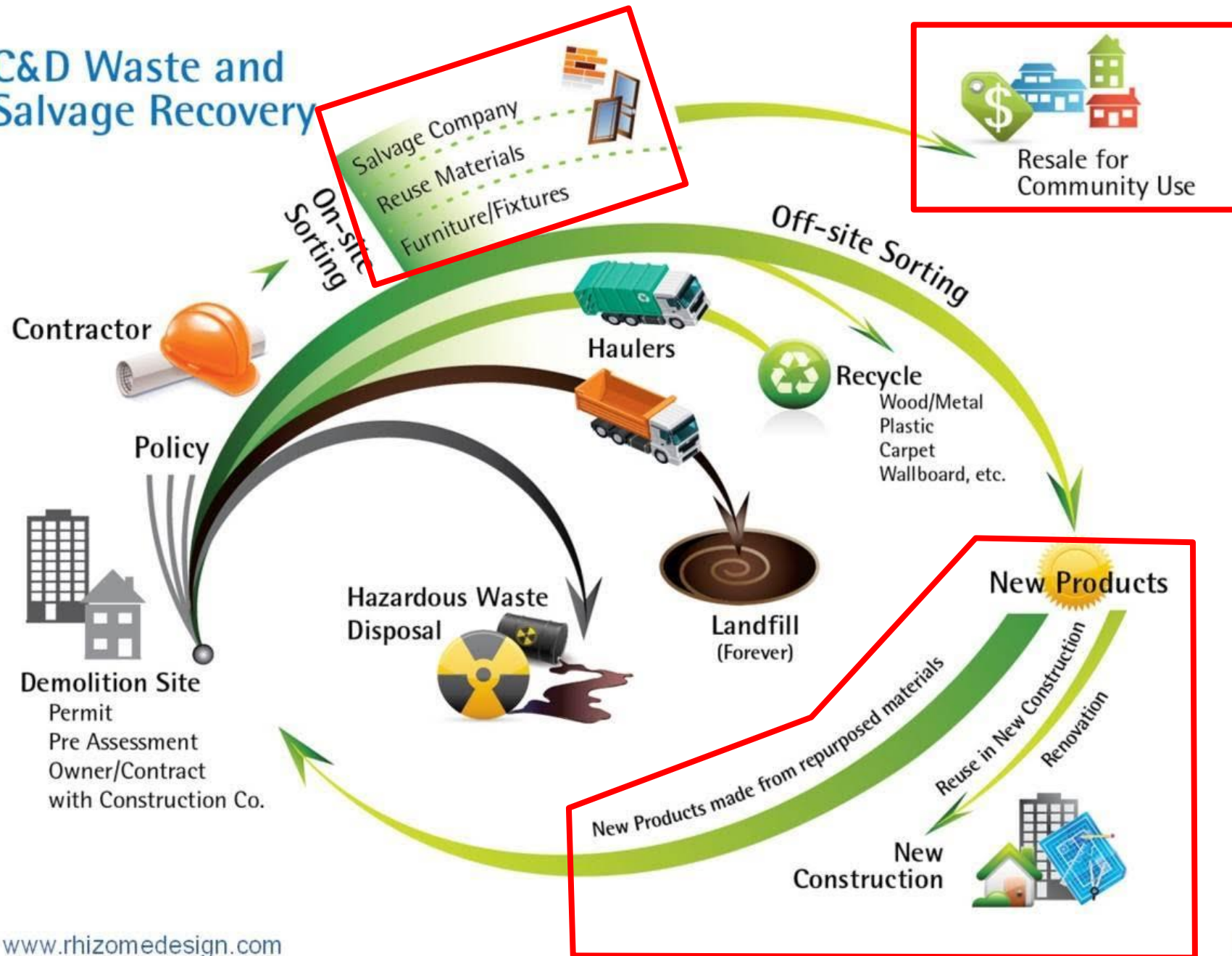


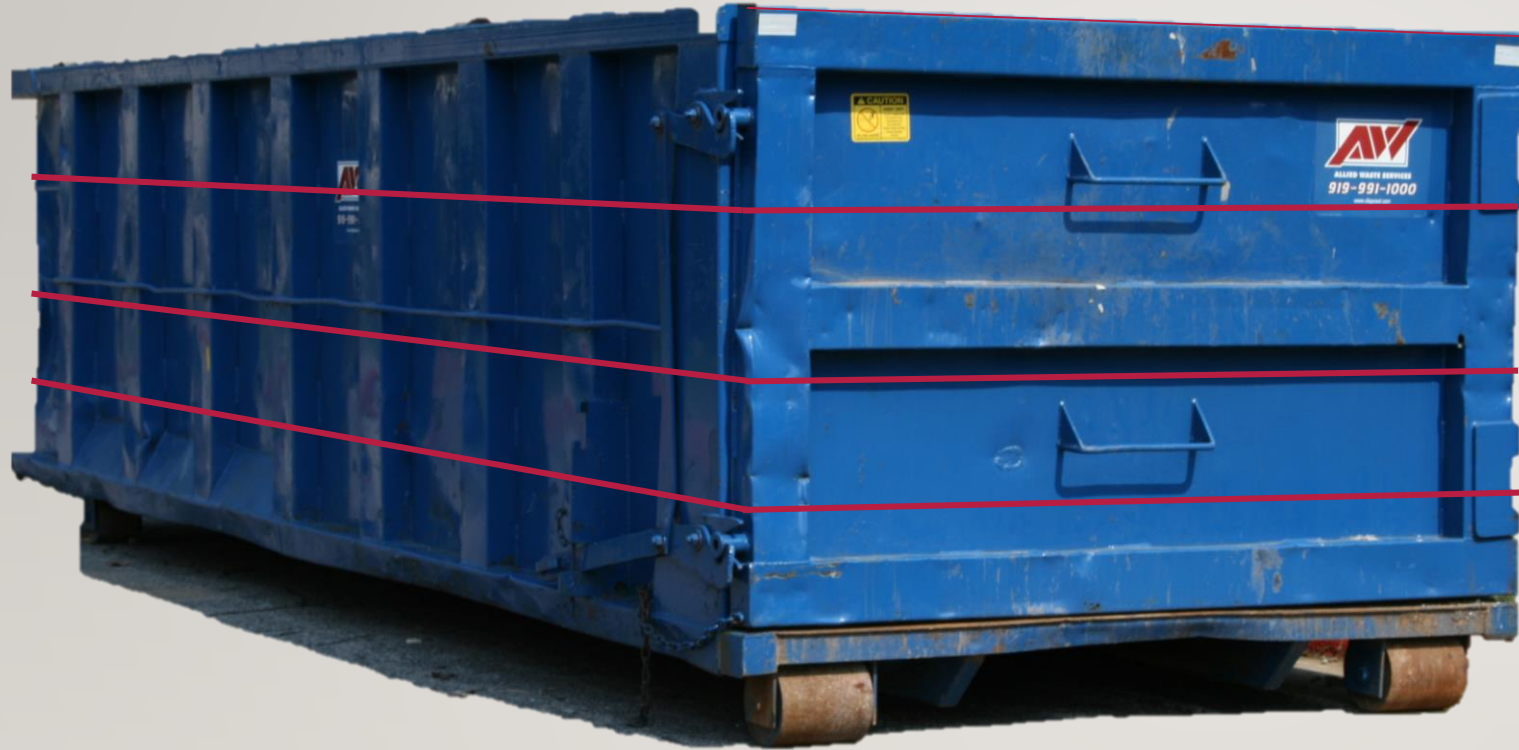
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In 2016, 1,750 Residential Demolition Permits were issued in Houston

C&D Waste and Salvage Recovery





Easy to Reuse

Reuse with some help

Recycle into something else

Trash





Easy to Reuse:

- Light fixtures
- Doors
- Windows
- Toilets
- Tubs
- Reclaimed wood
- Ceiling Fans



Reuse with some help:

- Built-in cabinets
- Broken mirrors
- Water-damaged furniture





Recycle into something else:

- Broken granite
- Gypsum
- shingles



Trash



DECONSTRUCTION & RESALE CHALLENGES

- Broken things
- Mold
- The time it takes to restore an item that needs work is often not monetarily worth it
 - i.e. spending 30 minutes denailing a piece of wood you'll sell for \$7.50
- Requires a LARGE space to hold the items until customers are ready to buy them... There's a buyer for everything. They just may not be here today.
- Customers may need x of something but you have x-1...



BUT...

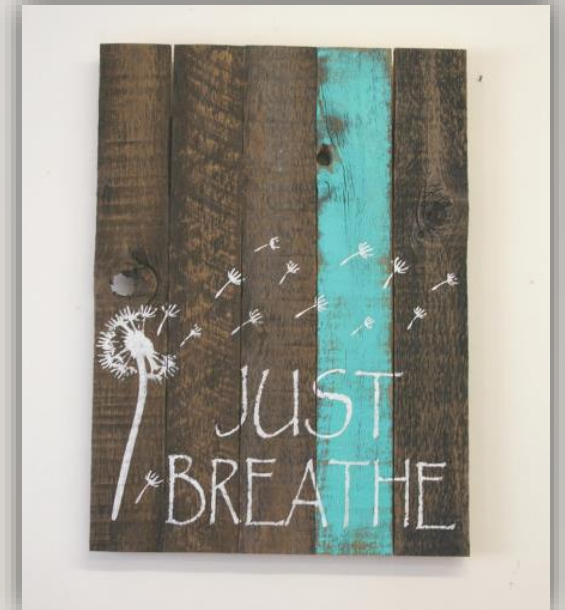
It CAN be done...



THINGS TO DO WITH RECLAIMED MATERIALS



THINGS TO DO WITH RECLAIMED LUMBER

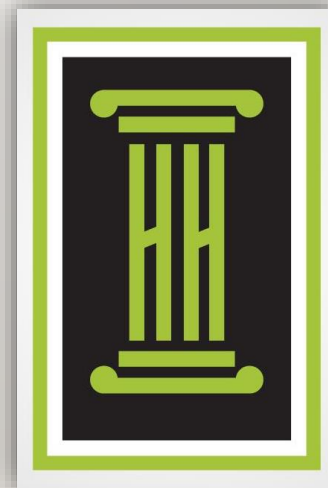


THINGS TO DO WITH RECLAIMED LUMBER



HOUSTON'S DECONSTRUCTION & REUSE RESOURCES

- Northwest Harris County Habitat for Humanity & ReStore
- Historic Houston
- The ReUse People/ RePurpose Depot
- City of Houston ReUse Warehouse
- Fabric/textiles: Magpies & Peacocks



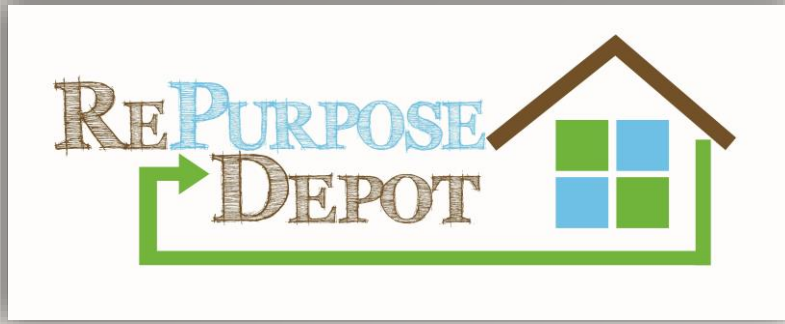
UPCOMING EVENT

ReUse Community Gathering

May 10

Magpies & Peacocks

908 Live Oak St, Houston, TX 77003



RePurpose Depot

305 McFarland St, 77011

www.Facebook.com/RePurposeDepot

www.RePurposeDepot.org



The ReUse People of America

Nationwide, HQ in California



SUMMARY

- We, as a society, have a responsibility to think coherently about how we want to manage our waste
- We choose to make houses with a lifespan of 50-75 years
- We are nearing the end of that lifespan for many houses in Houston
- How do we want to responsibly manage that waste?



REFERENCES

- [Characterization of Building-Related Construction and Demolition Debris in the United States \(PDF\)](#)
- TCEQ Annual Solid Waste Reports:
https://www.tceq.texas.gov/permitting/waste_permits/waste_planning/wp_swasteplan.html
- Network for Business Innovation and Sustainability: <http://nbis.org/>