

# Placing Waste in the Right Place: *Demolition vs. Deconstruction*



1

2




## Our Mission

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We help our clients solve solid waste management issues by providing **innovative, responsible, sustainable, and economical** strategies and solutions for the benefit of communities and the environment.




3



We, in the waste industry can Drive Reuse & Recycling and create a larger domestic lane for each commodity

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### Today's Topics:

- Teach Source Separation Drive-Through Drop-Off Incentives (Reverse Vending)
- Create profit centers
- Create Jobs
  - GIS/Lidar/Tech
  - Warehousing
- Case Studies
- Q & A

4





The C&D industry is largest contributor to Landfills in America – 548 million tons, more than 2X that of Municipal Solid Waste (MSW)



5



Global Projection to add equivalent Sq. Ft. of NYC, every month, for the next 40+ years.

6

# GET CREATIVE to Save the Commodities

The Fundamentals (3R's) are Still Relevant Today

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7

## THE FOCUS FOR THE LONG HAUL

The Priorities:

- REDUCE
- REUSE
- RECYCLE

- *big vs. small*
- *heavy vs. light*
- *valuable vs. costly*

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**GBB's Sustainable Materials Management Hierarchy**  
We have developed our own Sustainable Materials Management Hierarchy in order to push our industry forward to prioritize keeping materials at their highest and best use.




Figure A.1  
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8

## “The Most Sustainable Building is One that is already Built”

### Reduce . Reuse . Recycle

- ✓ Reduce construction waste
- ✓ Reuse materials already slated for demolition
- ✓ Recycle: PAPER, METAL, PLASTIC create a stronger Domestic market

### Protect . Preserve . Profit

- ✓ [Kent Sustainable Business Park – Domestic manufacturing](#)
- ✓ Savannah, GA – Historical buildings renovated for a modern campus
- ✓ Company relationships (LIDAR/GIS)

### Deconstruct over Demolish

- ✓ U.S. Department of Energy's Bioenergy Technologies Office
- ✓ EPA via Eastern Research Group

9

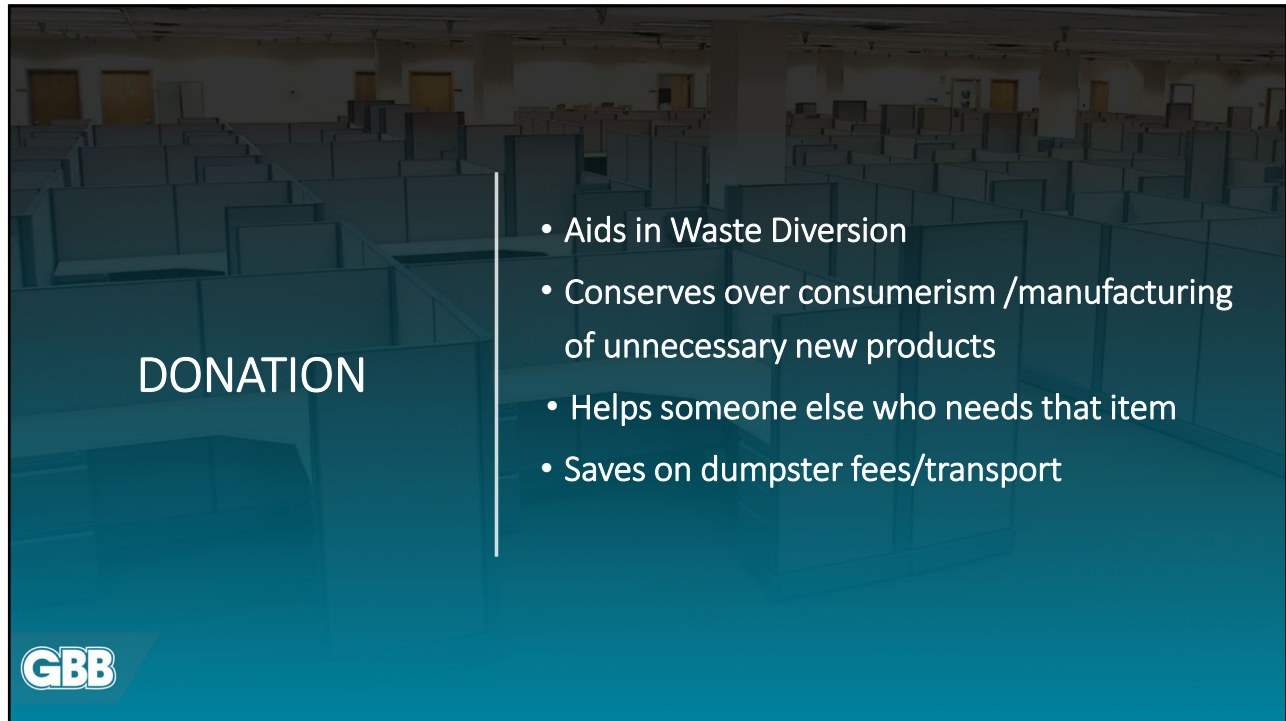
  
  


## Kent Sustainable Business Park

In the wake of China's National Sword Policy implementation there is a renewed interest in redesign our domestic facilities to manage ALL of waste that we generate to protect our natural resources.


- Expedite permitting to allow/promote adaptive reuse.
- Develop the local deconstruction market through municipal procurement, contracting and training (supporting workforce deconstruction training.)
- Update building codes to allow new structures to use salvaged materials & establish requirements to address hazardous dust pollution in demolition projects.

10

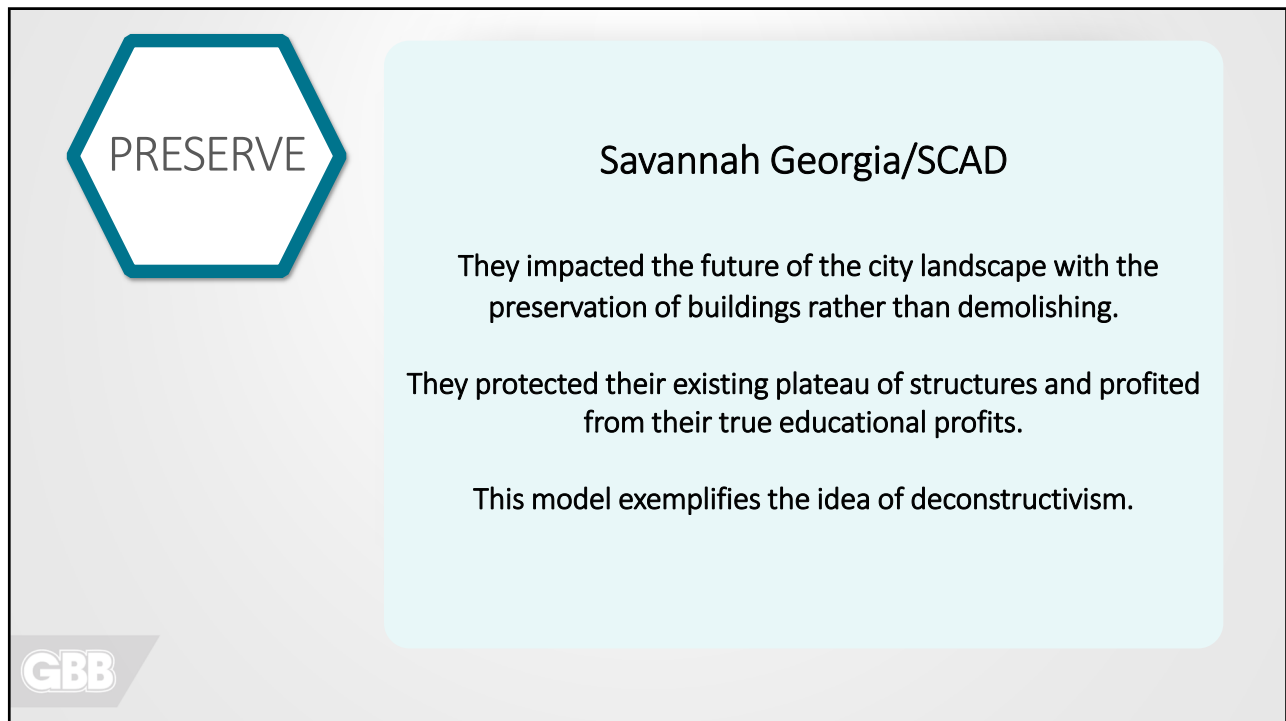


**DONATION**

- Aids in Waste Diversion
- Conserves over consumerism /manufacturing of unnecessary new products
- Helps someone else who needs that item
- Saves on dumpster fees/transport



11




**PRESERVE**

**Savannah Georgia/SCAD**

They impacted the future of the city landscape with the preservation of buildings rather than demolishing.

They protected their existing plateau of structures and profited from their true educational profits.

This model exemplifies the idea of deconstructivism.



12



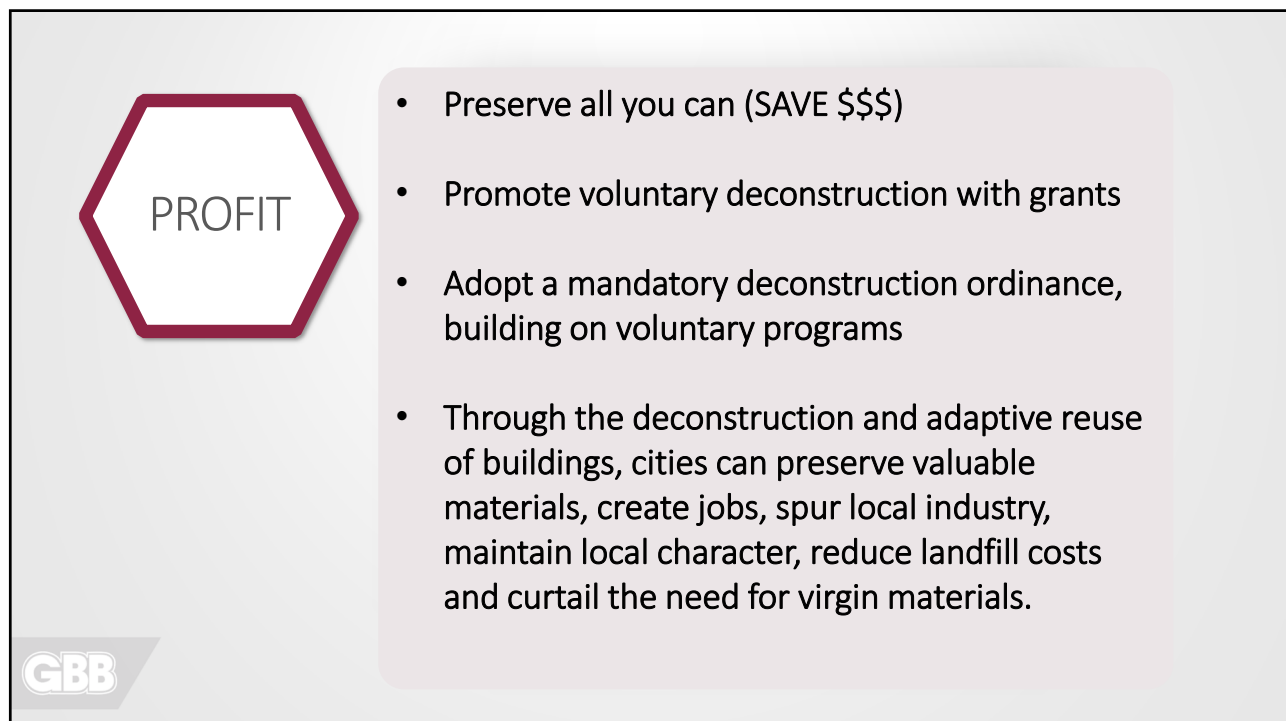


DECONSTRUCT

- Take apart an existing building, element by element, in reverse order of its construction, to preserve or recycle as many materials as possible.
- Reduced toxic dust
- Reduced heavy metal leaching into soil
- Reduced consumption of new material




13



PROFIT

- Preserve all you can (SAVE \$\$\$)
- Promote voluntary deconstruction with grants
- Adopt a mandatory deconstruction ordinance, building on voluntary programs
- Through the deconstruction and adaptive reuse of buildings, cities can preserve valuable materials, create jobs, spur local industry, maintain local character, reduce landfill costs and curtail the need for virgin materials.



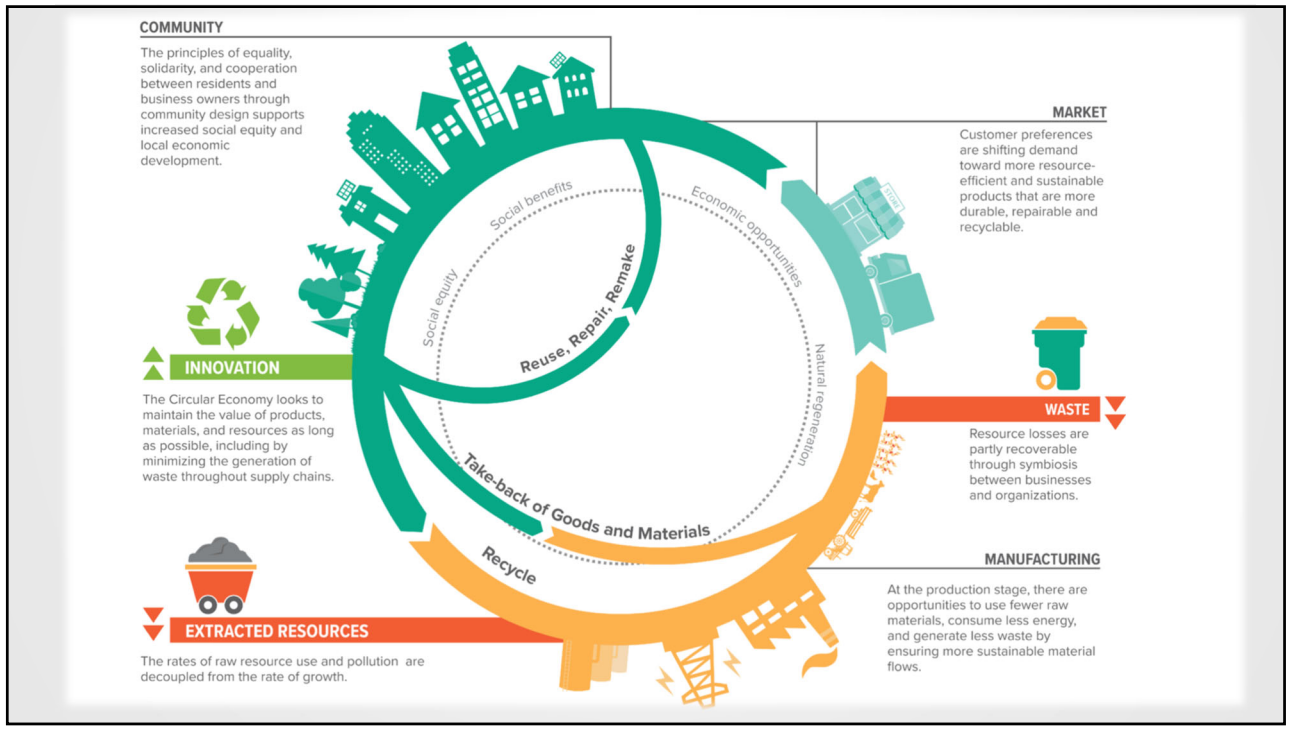
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**RECYCLE**

- Collaborate with Trash Haulers/ Construction Firms
- Expect push back – Change takes Time
- Develop programs with Manufacturers
  - Reach out to partners to form circular economies wherever possible.
  - Define processes around take-back programs

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15



16



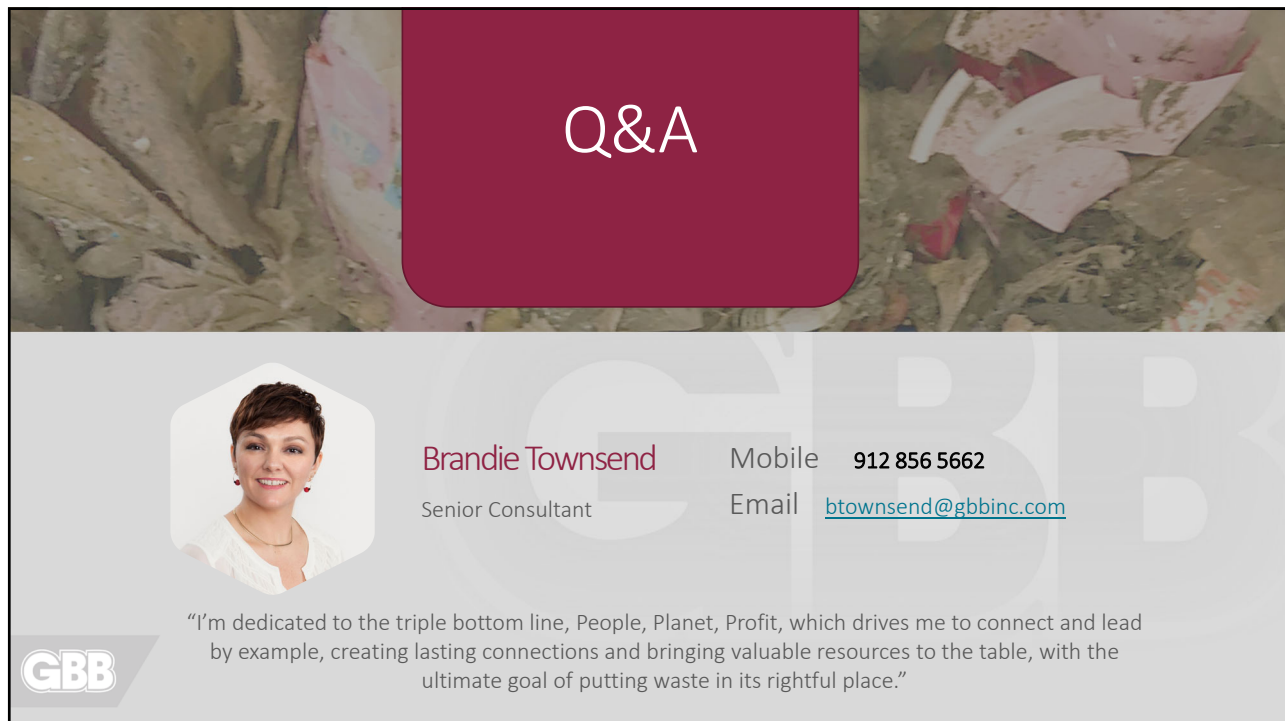


**OUR RESPONSIBILITY**


- Acknowledge your responsibility as part of the solution
- Educate yourself
- Lean into uncomfortable discussions
- Listen to understand
- Collaborate to create solutions
- Act
- Lead

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17



**Q&A**



**Brandie Townsend**  
Senior Consultant

Mobile **912 856 5662**  
Email [btownsend@gbbinc.com](mailto:btownsend@gbbinc.com)

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“I’m dedicated to the triple bottom line, People, Planet, Profit, which drives me to connect and lead by example, creating lasting connections and bringing valuable resources to the table, with the ultimate goal of putting waste in its rightful place.”

18