



Session #2

Implementation: Less Waste
Through Internal & External
Collaboration

How it all started

- Collaboration started with just meeting each other for lunch
- Met monthly to discuss sustainability
- Knew we had similar issues/needs from those conversations
- Need to be aware of what is going on around you to see the opportunities
- Cost sharing opens up opportunities - unified pricing

Session 2 - Implementation

Shredding Shared Service PO

- Utilize resources to the fullest potential
 - Shred Trident Technical Colleges paper weekly
 - Invoice monthly
- Cost savings for TTC



Session 2 - Implementation

Shared Compost Contract

- MUSC, Citadel, TTC, C of C
- Shared skillset contract writing (MUSC wrote specs)
 - Met with each campus
 - Incorporated needs into specs
 - Bid as one document
 - Campus joins/leaves when ready
 - Campus controls level of service
- Unified pricing/economies of scale



Session 2 - Implementation

Shared Dumpster Service Contract

- Shared skillset contract writing (MUSC wrote specs)
 - Incorporated needs into specs
 - Bid split between large and small campuses
 - Bid as one document
 - Campus joins/leaves when ready
 - Campus controls level of service
- Unified pricing/economies of scale
- MUSC, Citadel and TTC (C of C pulled out bec already had good pricing)



Session 2 - Implementation

Shared E-Waste Contract

- MUSC, C of C, TTC, Citadel
- Multiple voices speaking for services empowers us
 - MUSC using needs of other schools to help push for this procurement
- As you build trust with companies and get to know which are good, you can share that with others
 - MUSC has tried several companies and found the good and bad
 - Meanwhile MUSC recommends XXX company to work with based on experience
- Don't recreate the wheel
 - MUSC using old State contract specs to move forward

Session 2 - Implementation

Other

- MUSC and C of C joint presentation to local Sierra Club
- Share rides to conference, meetings, trainings more opportunity to learn from one another
- MUSC and C of C joint hosts of CURC Workshop and Tours
- MUSC and C of C urban farm sharing (current farm manager works at both)
- MUSC Sustainability interns usually come from C of C
- Citadel Energy Manager on MUSC performance contract committee
- MUSC rents vehicles from Citadel

Session 2 - Implementation

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Improving Recycling Access at the University of South Carolina... Starting with Thomas Cooper Library

Setting the stage

- University of South Carolina's recycling program began in 1989
- Stagnant recycling rate by 2011
- Hired a contractor (Resource Recycling Systems) to make recommendations for improvement



Key Implementation

Recommendations of the Report:

- Establish effective branding and a unified campus-wide approach making recycling happen.
- Convert most recycling collections to single stream collection
 - Report suggested that this would result in a “significant reduction in collection expenses ***with minimal reduction, if any, in program revenues.***”



Designing a Pilot Project

- Step 1: Choose the bin that would effectively brand a standardized campus recycling program.
- Step 2: Identify a location.



Russell House University Union



Thomas Cooper Library

The Pitch

- Decided to approach the Library administration to partner on the project
- Explained how the project would improve service and aesthetics in the building
- Asked if the Library would help to fund the project



Establishing a Partnership and Implementing the Plan

- The Library agreed to fund half of the cost of the project
- Students assisted in the installation
- Custodial Services on board with new duties
- Library Communications Department cooperated on promotion & marketing



Single Stream Recycling makes it easier than ever to recycle in Thomas Cooper Library

Now you can place **mixed paper**, **plastic bottles**, and **aluminum cans** all in the same recycling bin. We empty the bins and the various materials are sorted by Pratt Industries at their Material Recovery Facility (MRF) in Duncan, SC.



Please remember, recycling becomes **contaminated** when non-recyclable items are mixed in with recyclable items. Any food container that has been soiled with food is not recyclable and should be put in the garbage. Beverage cups should also be thrown in the garbage because most beverage cups are not recyclable and most are thrown away with liquid or ice still in them. Carolina Dining cups, in particular, are **compostable, but not recyclable**.

Recycle Like You've Never Recycled Before!



visit facilities.sc.edu/recycle

Assessing the Project:

- Waste sort results post-installation showed an immediate improvement
- The distinctive appearance of the new bins attracted admirers immediately
- Thomas Cooper Library administration and staff pleased with the outcomes



Assessing the Project:

- Useful outcomes :
 - strategic ways to choose your partners
 - strategies for making a strong case
 - benefits of cost sharing beyond the budget



Strategic ways to choose your partners:

- Where do you have an in?
- Where will your efforts make the most impact?
- Who will be involved to sustain the program?



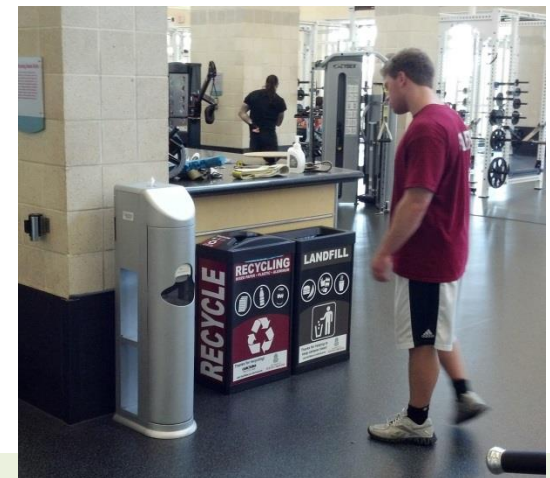
Strategies for making your case:

- Be organized and know your audience
- Figure out how to stress what is in it for them
- Figure out where you can accommodate your partners



Benefits of cost sharing beyond the budget:

- Co-funding partners are more motivated
- Project champions develop naturally
- A successful partnership may lead to further opportunities for collaboration
- Co-funding sets a precedent for future partners as you scale the program





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Student Move-In at UNC-Chapel Hill

A team effort towards zero waste



The history

- Corrugated cardboard banned from Orange County Landfill
- Tip fine doubled when cardboard is in trash load, additional \$400 added when there is excessive cardboard
- UNC incurred almost to **\$20,000 in cardboard fines** between May-August, 2007-2008
- UNC on-campus housing consists of 32 residence halls, five on-campus apartment buildings, Odum Village, and Baity Hill (family Student housing). About 9,000 undergraduates live on campus

The Old Days (Morrison Residence Hall, 2000)



Avery Residence Hall



The Crew, 2014



Interacting with families and students







“I have learned more about the University in one weekend working with y’all than I have in all my years working for Housekeeping.”

– Member of 2013 crew

Morrison, 2013

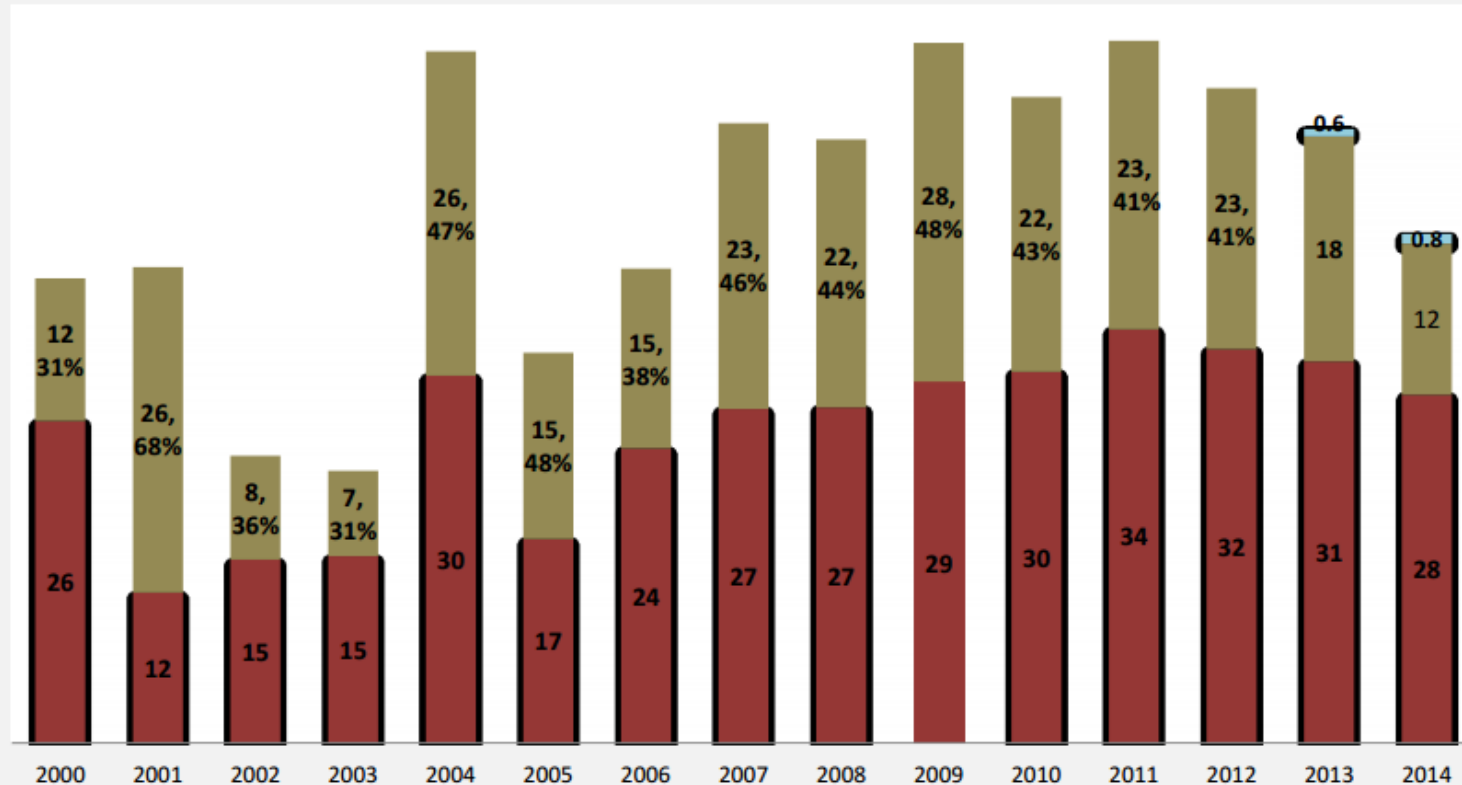






Move-in Landfilled and Recycled In Tons

■ Tons landfilled ■ Cardboard ■ Polystyrene & Plastic Film



*Tonnes (Landfilled and Cardboard) = all move-in rolloff hauls and front load hauls from second haul during move-in days.

**2000 and 2001 statistics compiled by Matt Todd; 2002-2006 stats compiled by Amy Preble and Jen Maxwell. 2007 & 2008 stats compiled by BJ Tipton

***More data was reported in 2004, due to changes in Waste Industries reporting and their truck making a second route specifically for move-in.

****A standardized formula was used to calculate move-in figures for 2006 - 2008.

Expected benefits

- Keeps sites clean for Housing during busiest times of move-in weekend
- Sites are clean for early morning OWRR crew
- Reduces “putting out fires” at all sites—stress!
- Capturing more material, esp. more EPS and film on Saturday and Sunday afternoon

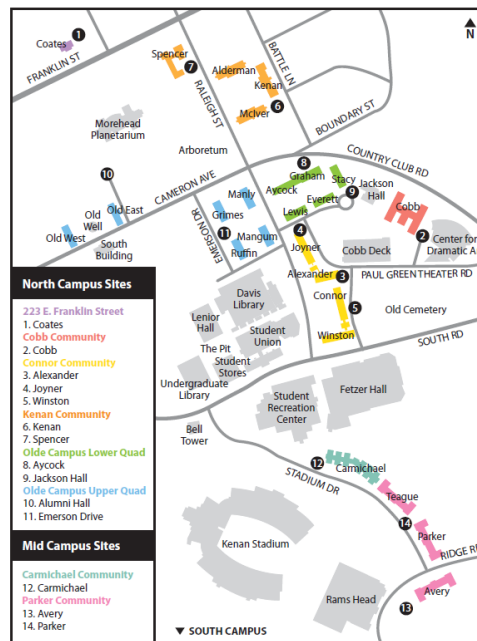
Unexpected benefits

- Strengthening connections between shops/departments within Facilities Services
- Increasing awareness of recycling for other departments—also increasing awareness of other areas of campus!
- Parents and students notice—UNC takes recycling seriously!
- Collaborations lead to expansion opportunities
 - Plastic film collection was beginning of our film recycling pilot
 - Styrofoam collaboration with Green Labs
 - Ongoing collaboration with Housing

Best practices

- Small crew on Friday night
- Kit for each crew member in recyclable bag
 - Rain poncho, t-shirts (two), water and snack, gloves, box cutter, phone list, map
- Have “floaters”, maybe someone on a bike, too
- Handwritten signs on dumpsters

Residence Hall Dumpster Sites			
Site Name	Community	Map	Number
1351 Mason Farm Rd.	Baity Hill	South Campus	15
1401 Mason Farm Rd.	Baity Hill	South Campus	16
1501 Mason Farm Rd.	Baity Hill	South Campus	17
1503 Mason Farm Rd.	Baity Hill	South Campus	18
216 Branson Rd.	Odum Village	Odum Village	32
304 Mason Farm Rd.	Odum Village	Odum Village	33
305 Mason Farm Rd.	Odum Village	Odum Village	34
407 Mason Farm Rd.	Odum Village	Odum Village	35
609 Hibbard Dr.	Odum Village	Odum Village	36
617 Hibbard Dr.	Odum Village	Odum Village	37
711 Hibbard Dr.	Odum Village	Odum Village	38
Alexander	Connor	North Campus	3
Alumni Hall	Olde Campus Upper Quad	North Campus	10
Avery	Parker	Mid Campus	13
Aycock	Olde Campus Lower Quad	North Campus	8
Carmichael	Carmichael	Mid Campus	12
Coates	223 E. Franklin Street	North Campus	1
Cobb	Cobb	North Campus	2
Craig	Craig	South Campus	19
Craig North	Manning West	South Campus	25
Ehringhaus East	Ehringhaus	South Campus	20
Ehringhaus North	Ehringhaus	South Campus	21
Emerson Drive	Olde Campus Upper Quad	North Campus	11
Hardin	Manning West	South Campus	26
Hinton James	Hinton James	South Campus	22
Horton	Manning East	South Campus	23
Jackson Hall	Olde Campus Lower Quad	North Campus	9
Joyner	Connor	North Campus	4
Kenan	Kenan	North Campus	6
Koury	Manning East	South Campus	24
Morrison	Morrison	South Campus	27
Parker	Parker	Mid Campus	14
Ram Village 2	Ram Village	South Campus	28
Ram Village 3	Ram Village	South Campus	29
Ram Village 5	Ram Village	South Campus	30
Spencer	Spencer	North Campus	7
Taylor Hall	Ram Village	South Campus	31
Winston	Connor	North Campus	5



Room for improvement/learning opportunities

- Only “zero waste” for a small window of time (Friday evening, Saturday & Sunday afternoon). BIG effort, big impact, but to cover all of move-in would be a HUGE undertaking.
- Increasing lab participation in Styrofoam collection is proving to be a challenge.

How to/why replicate?

- Great optics—empty dumpsters, clean sites—Housing loves it
- Parents and students give great feedback
- Easier on morning cleanup crew
- Builds understanding and appreciation of recycling between team—whatever they are
- Room to expand to other materials once you have people at the site

Questions?

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