what today’s marketers need to know:
sustainability, 
and innovative 
material reclamation

SCOTT BOYLSTON
Professor of Design for Sustainability at SCAD
Director of Emergent Structures
sustainability 101:
sustainability 101:

bottom-feeding
sustainability 101:

1) without this function
   no system can sustain itself
2) providing this service
   is the equivalent of owning a niche!
sustainability 101:

1) without this function no system can sustain itself
2) providing this service is the equivalent of owning a niche!
76,500,000 tons of demo waste landfilled in a single year.
76,500,000 tons of material wealth landfilled in a single year.
Thomas & Hutton

Community Housing Services Agency Development, Inc. (CHSA)

City of Savannah
the norm
the norm

flooring
tables
chairs
counters
roof repairs
house repairs
greenhouses
shelving
 cabinets
decks
fencing
art
houses

the 'new'
2009: 210 units remained
Fellow bottomfeeders,

What a great first visit! We need to think and act fast. Here are the first steps I suggest, and would ask that everyone ‘steps’ below. Please email only me, unless you want CC hell to break out. I will compile everything, and send back ‘the city’ (the city will stand in for all developers that were present at the first meeting). If you don’t have any questions, ‘nothing’ for the step number, or something to that affect.

FIRST STEPS:

1) Compile any immediate questions regarding the materials that were not answered during the visit. I will may be very few of these, but we told them we’d send any immediate, burning questions.

2) Request a closer inspection ASAP, so we can have a better idea of the true state, quality and quantity of FOR YOU — 2/3 dates and times in the next few weeks.)

3) Begin compiling a ‘wish list’ of materials, based upon what we presently know; kinds of materials and amount
EMERGENT STRUCTURES PROJECT

BUILDING MATERIAL HARVEST DAY

SATURDAY
NOVEMBER 7, 2009
9am – 4pm

come for an hour or the whole day!

Emergent Structures reclaims building materials from demolition sites and helps distribute them to be reused in restoration, furniture and art. Everyone is free to take any of the building materials harvested!

The site is located at the Shinnemore Estates on Pennsylvania Avenue, half mile south of Herman Park, on the southwest corner. It’s a great opportunity for students, faculty and staff to get involved with local organizations, artists and activists who are at the forefront of the urban reutilization movement.

Please wear work boots or sneakers (no open-toe shoes), work clothes and gloves and bring sunscreen, water bottles and snacks. Painters’ tarps must be signed and returned.

For any questions, please contact Kathy Pitts at 609-853-2612.

NPR hearings on emergent structures in urban reutilization movement.

I WILL: Build an affordable kitchen with my materials.

I WILL: Make a table with my materials.

I WILL: Build a suburban garden with my materials.

I WILL: Create an art installation with my materials.

I WILL: Create a fire pit with my materials.
EMERGENCE ZONE

INITIATIVE 1
GREEN APPRENTICE PROGRAM
LOCAL CRAFT SPECIALIST (Johnnie Powers)
WORK FORCE
At-risk youth & underemployed apprentices
KNOWLEDGE PARTNER (Union Mission/Starfish Cafe)
FACILITY PARTNER (Southern Pine Co.)
TRADE PARTNER (Savannah Area Convention and Visitors Bureau)

Small-scale production line of local goods
Service furniture accompanied by info about artist & project

INTERACTIVE PROCESS:
Phase 1 educates
Phase 2 educates
Phase 3 educates

NEWLY DISCOVERED INNOVATIONS
Please curb your porch
bricks
soil caps
tubs-aggregate

EMERGENCE ZONE

INITIATIVE 2
SAVANNAH GARDENS REDEVELOPMENT
GENERAL CONTRACTOR (NorSouth)
WORK FORCE
Carpentry Apprentice Program (Harambee House)
DEVELOPER (Nancy Moulton)
DEMO CONTRACTOR (TBD)

deconstruction operated by demo contractor

INTERACTIVE PROCESS:
Several similar small-scale projects are in the works

NEWLY DISCOVERED INNOVATIONS
Eco-village build on Rose Dhu Island

EMERGENCE ZONE

INITIATIVE 3
OUTDOOR EATING AREA
LOCAL GREEN RESTAURANT
(Thrive Cafe)
WORK FORCE
(Harvest:NorSouth, Build:volunteers/students)
KNOWLEDGE PARTNER (US Green Building Council)
FACILITY PARTNER (Land owner & tenants)

outdoor furniture & eating/rest area

INTERACTIVE PROCESS:
Several similar small-scale projects are in the works

NEWLY DISCOVERED INNOVATIONS

EMERGENCE ZONE

INITIATIVE 4
ROSE DHU ISLAND ECO-VILLAGE
GIRL SCOUTS OF COASTAL GEORGIA (Nina Smith)
WORK FORCE (Girl Scouts)
KNOWLEDGE PARTNER (USGBC)
FACILITY PARTNER (JT Turner)

2-day volunteer feasibility harvest
planning: needs, on-site storage, hauling

INTERACTIVE PROCESS:
Several similar small-scale projects are in the works

NEWLY DISCOVERED INNOVATIONS

EMERGENCE ZONE

INITIATIVE 5
SHUMAN PUBLIC SCHOOL GARDENING
PUBLIC SCHOOL (Shuman Elementary PTA)
WORK FORCE (Habitat for Humanity)
KNOWLEDGE PARTNER (Southern Pine Company)
FACILITY PARTNER (NorSouth)

chessette w/ land owner & tenants

INTERACTIVE PROCESS:
Several similar small-scale projects are in the works

NEWLY DISCOVERED INNOVATIONS

EMERGENCE ZONE

INITIATIVE 6
BRANDING RECLAIMED MATERIALS
RECLAIMED MATERIALS
HARVEST PARTNER (Business: NorSouth/Non-profit: Habitat for Humanity)

Interpretation: craft center(s)
Sales to local businesses and residents

ITERATIVE PROCESS:

EMERGENCE ZONE

INITIATIVE 7
BRANDING RECLAIMED MATERIALS

ETCERTIFY & CELEBRATE: apply logo to any approved project in the city in order to raise awareness

EMERGENCE ZONE

INITIATIVE 8
INTERNATIONAL SYMPOSIUM

DATES: Late 2011 or early 2012

DESIGN FOR SUSTAINABILITY
DEPARTMENT AT SCAD
facilitation // knowledge generation // data collection // manpower
promotion // adaptive strategies // iterative growth // dissemination
EMERGENCE ZONE

INITIATIVE 1
GREEN APPRENTICE PROGRAM

LOCAL CRAFT SPECIALIST
(Delaine Powers)

WORK FORCE
At risk youth &
undocumented apprentices

KNOWLEDGE PARTNER
(Union Mission/Starfish Cafe)

FACILITY PARTNER
(Southern Pine Co.)

TRADE PARTNER
(Savannah Area Convention
and Visitors Bureau)

Small-scale
distribution
of local goods

terrace furniture
accompanied by
info about
artist & project

trolley tours to
craft center(s)
sales to local
businesses and
residents

tourist sales
in local shops

EARLY STAGES :: Locating and nurturing Positive Deviants
Grant writing w/ poverty reduction agency
Outreach to Savannah Visitors Bureau
Best practices research
Incubator capacity building

EMERGENCE ZONE

INITIATIVE 1
GREEN APPRENTICE PROGRAM

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EARLY STAGES :: Locating and nurturing Positive Deviants
Grant writing w/ poverty reduction agency
Outreach to Savannah Visitors Bureau
Best practices research
Incubator capacity building
Partnership program with local hospitality industry

Apprenticeship program for at-risk youth
Apprenticeship program for at-risk youth

Partnership program with local hospitality industry

Charisse Bennett | MFA Thesis
Emergent Structures is a large-scale reclamation project executed by a diverse array of artisans, designers, architects and other creative professionals, and intended to create an international model of collaborative material re-use. The goal is to coordinate the salvage, and distribution of as much of the building materials as possible, and to record the numerous innovative re-use projects that transpire over the ensuing year.

**Project Overview**

**Initiative 2**

- **Savannah Gardens Redevelopment**
  - General Contractor: Miso South
  - Work Force: Various
  - Developer: Mercy Housing
  - Demo Contractor: Melton Enterprises

**Emergence Zone**

- Studs-to-trusses: Please curb your pouches.
- Bricks: Various.
- Walls: Wall caps.
- Tubs of aggregate: Newly discovered innovations.

**Iterative Process:**

- Phase 1: Educates
- Phase 2: Educates
- Phase 3: Educates

**Government**

- Accountability and Environment
- Harvesing Materials
- Profit Business Partners
- Other Organizations
- Other NGOs
- Knowledge and Tech
- Local Communities
- Pine Garden

**Collaborating**

- Support
- Technical Support
- Partnership

**Emergent Structures**

- DMGT 740 Sustainable Practices in Design | YUSHI WANG | PROFESSOR BOYLSTON | WINTER 2010

**Opportunities**

- Engaging the C&D Industry
- Learning.
- Supporting those who would try.
OCTOBER 2010
OLD SAVANNAH GARDENS
10 carpenter apprentices
75 volunteers
3 corporate sponsors
900 studs denailed
APRIL 2011
NEW SAVANNAH GARDENS:
900 studs integrated into ‘new’ trusses in the redevelopment

thank you innovators:

CHSA Development Inc.
City of Savannah /Housing Department
so what.
Layouts for Two Housing Projects on East Side for Shipyard Workers

Surrounding the image with textual content is not possible due to the nature of the document.
AUGUST 2011
NEW SAVANNAH GARDENS:
500 bricks cleaned in 3.5 hours
to be used in the lobby
of Phase One
<table>
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<tr>
<td>TOTAL BRICKS</td>
<td>505</td>
</tr>
<tr>
<td>BRICKS/MAN-HOUR</td>
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</table>

**TOTAL COST IF PAID LABOR WAS UTILIZED**

- Lower wage: $0.49/brick
- Higher wage: $0.68/brick

For reference new brick costs from $0.30 to $0.50 per brick. (How could this be!?)
TOTAL BRICKS  505 x 5 = 2,525 lbs
or
105 lbs of carbon not released into the atmosphere.
TOTAL BRICKS 505 x 5 = 2,525 lbs
or
105 lbs of carbon not released into the atmosphere.
or
240 “NET NEUTRAL” ICE CREAM CONES!
TOTAL BRICKS  505 x 5 = 2,525 lbs
or
105 lbs of carbon not released into the atmosphere.

OR

=
TOTAL BRICKS  $505 \times 5 = 2,525$ lbs
or
105 lbs of carbon not released into the atmosphere.

OR
8 people + 3 hours + 1 willing contractor:
8 people + 3 hours + 1 willing contractor:

Imagine if all of the 181 cities in the USA that were larger in population than Savannah found 8 people and 1 willing contractor to do the same thing...
8 people + 3 hours + 1 willing contractor:

Imagine if all of the 181 cities in the USA that were larger in population than Savannah found 8 people and 1 willing contractor to do the same thing...

43,771

NET NEUTRAL ICE CREAM CONES

or 8.7 metric tons of carbon never released
or over 1,000 gallons of gas never bought, burned or fought for
If \( \begin{array}{c} + \\ \end{array} \) = \( \begin{array}{c} \text{cone} \end{array} \)

Then \( \begin{array}{c} \text{men} \times 8 + \text{men} \times 182 = 8.7 \text{ mt of} \)
NEW SAVANNAH GARDENS:

Alternate bid for demolition of 13 units requires a minimum of

30% recycle and
30% reuse

these bids are being written...and bid upon.
The materials at Strathmore Estates

**Asphalt shingles:** The asphalt on site is in the shingles of the homes. Each roof that contains this type of shingle. There are 1680 feet of asphalt shingles.

**Brick:** The main source of brick on the site is the fireplaces and the foundation. There are about 2368 square feet of brick per duplex unit.

**Door Frames/Window Frames and Other Whole units:** Each standing house has multiple door and window frames. Most houses still have electrical outlets and light switch covers along with other assorted items.

**Gypsum:** Most gypsum in the homes is found in the interior walls. There are approximately 2866 square feet of gypsum drywall per duplex unit.

**Metal:** Most of the metal at the site will be found in scraps, pipes, and in the wiring. The kitchen sinks are made out of stainless steel; they weigh more than 15 pounds each. There is an estimated 2800 pounds of steel at the site.

**Porcelain:** There is a bathtub, sink, and a toilet for each unit. The porcelain in the toilet weighs about 20 pounds each. (There is at least 3600 pounds of porcelain) Each bath tub has about 75 pounds of porcelain (at least 13500 pounds at the site).

**PVC:** Most of the PVC at the site is found in the siding. There was 1205 horizontal feet of it and 400 vertical feet of it per duplex unit.

**Wood:** Wood is the most plentiful element at Strathmore Estates. There are 30 typical unbraced gable trusses, 350 king studs, and 84 twelve foot floor joists.

This type of digital modeling and material cataloging can be easily replicated in future projects by doing careful measurements and using appropriate programs. There are many books and websites devoted to material studies that can assist with research.

- Adrian Perez and Elysia Wells
A pulse of change ideas creates the rhythm of change actions.
A pulse of change *ideas* creates the rhythm of change *actions*.

and a rhythm of change *actions* creates the pulse of change *ideas*.
EMERGENCE ZONE

INITIATIVE 1
GREEN APPRENTICE PROGRAM

- LOCAL CRAFT SPECIALIST (Johnnie Powers)
- WORK FORCE (At-risk youth & underemployed apprentices)
- KNOWLEDGE PARTNER (Union Mission/Starfish Cafe)
- FACILITY PARTNER (Southern Pine Co.)
- TRADE PARTNER (Savannah Area Convention and Visitors Bureau)

Small-scale production line of local goods
Service furniture accompanied by info about artist & project

INITIATIVE 2
SAVANNAH GARDENS REDEVELOPMENT

- OUTDOOR EATING AREA
- ROSE DHU ISLAND ECO-VILLAGE
- SHUMAN PUBLIC SCHOOL GREENING

RECLAIMED MATERIALS
HARVEST PARTNER (Business: NorSouth/Non-profit: Habitat for Humanity)

INITIATIVE 3
GREEN APPRENTICE PROGRAM

- LOCAL GREEN RESTAURANT (Thrive Cafe)
- WORK FORCE (Harvest:NorSouth)
- KNOWLEDGE PARTNER (US Green Building Council)
- FACILITY PARTNER (Land owner & tenants)

CHIAPUZZA w/ land owner and tenants
Outdoor furniture & eating/rest area

INITIATIVE 4
ROSE DHU ISLAND ECO-VILLAGE

- GIRL SCOUTS of COASTAL GEORGIA (Nina Smith)
- WORK FORCE (Girl Scouts)
- KNOWLEDGE PARTNER (USGBC)
- FACILITY PARTNER (JT Turner)

2-day volunteer feasibility workshop
Planning needs, on-site storage, hauling
terrace furniture accompanied by info about artist & project

INITIATIVE 5
SHUMAN PUBLIC SCHOOL GREENING

- PUBLIC SCHOOL (Shuman Elementary PTA)
- WORK FORCE (Habitat for Humanity)
- KNOWLEDGE PARTNER (Southern Pine Company)
- FACILITY PARTNER (NorSouth)

Outdoor furniture & eating/rest area
Various projects still to be determined

INITIATIVE 6
24-HOUR BARN RAZING

- GENERAL CONTRACTOR (NorSouth)
- WORK FORCE (Carpentry Apprentice Programs (Harambee House))
- DEMO CONTRACTOR (TBD)
- DEVELOPER (Mercy Housing)

EMERGENCE ZONE

INITIATIVE 7
BRANDING RECLAIMED MATERIALS

- CERTIFY & celebrate: apply logo to any approved project in the city in order to raise public awareness
- TROLLEY TOURS to craft center(s)
- Sales in local businesses and residents
- Local craft specialist (Johnnie Powers)
- Work force (at-risk youth & underemployed apprentices)
- Knowledge partner (Union Mission/Starfish Cafe)
- Facility partner (Southern Pine Co.)
- Trade partner (Savannah Area Convention and Visitors Bureau)

INITIATIVE 8
INTERNATIONAL SYMPOSIUM

- SUMMER 2011 or early 2012
- NEEDED: ASPECTS, ART SCENE, Iterative PROCESS: Several similar small-scale projects are in scaling

Design for Sustainability
Department at SCAD
facilitation // knowledge generation // data collection // manpower promotion // adaptive strategies // iterative growth // dissemination
Facilitating creative solutions within systems in crisis... and within systems of crisis

3 arenas:
Technical Innovation | Social Innovation | Meaning Innovation
Facilitating creative solutions within systems in crisis... and within systems of crisis.

3 arenas:
Technical Innovation | Social Innovation | Meaning Innovation
resource productivity
cradle to cradle
low toxicity
biomimicry
industrial ecology
service and flow
life cycle analysis
Facilitating creative solutions within systems in crisis...
and within systems of crisis.

3 arenas:

- **Technical Innovation**: resource productivity, cradle to cradle, low toxicity, biomimicry, industrial ecology, service and flow, life cycle analysis

- **Social Innovation**: legitimizing alternatives, debunking product-based well being, quantifying value, enabling perceptual leaps, information design

- **Meaning Innovation**:
Facilitating creative solutions within systems in crisis...
and within systems of crisis.

3 arenas:

| Social Innovation |

Technical Innovation | Meaning Innovation
Facilitating creative solutions within systems in crisis... and within systems of crisis

3 arenas:

| Social Innovation |

Technical Innovation | Meaning Innovation
Facilitating creative solutions within systems in crisis... and within systems of crisis.

*How do you teach navigational skills within complex systems when confined by classroom walls?*
Facilitating creative solutions within systems in crisis... and within systems of crisis.

*How do you teach navigational skills within complex systems when confined by classroom walls?*

**YOU DON’T.**
classroom

‘real world’

flow of energy & talent

dynamic thought creation

innovation incubator

iterative development

knowledge dissemination

knowledge creation
facilitated interaction with the ‘real world’

classroom

knowledge creation

knowledge dissemination

innovation incubator

iterative development

dynamic thought creation

flow of energy & talent

pre-existing prototypes

continuity for community, clients, students & college

agency & governmental knowledge and resources

industry knowledge & resources

community knowledge & resources

full and lasting immersion

legitimacy & influence

knowledge creation

knowledge dissemination

facilitated interaction with the ‘real world’
facilitated interaction with the ‘real world’

- community knowledge & resources
- agency & governmental knowledge and resources
- pre-existing prototypes

- knowledge creation
- knowledge dissemination
- iterative development
- innovation incubator

- flow of energy & talent
- dynamic thought creation
- legitimacy & influence

- industry knowledge & resources
- full and lasting immersion

continuity for community, clients, students & college

knowledge & resources
Fall 2009
**INTERIOR DESIGN STUDENTS**
- detailed floorplans
- catalog of materials in 30 units
- reclamation of non-structural materials

Winter 2010
**DESIGN for SUSTAINABILITY CLASS**
- Conceptual map making of the social and political terrain
- Extensive cataloging of structural materials
- 3-dimensional, extracted view model of buildings
- engage construction company that wins bid for Phase One
- devise on-site re-use concepts; present to strategic partners
- engage local non-profits serving minorities and developing green jobs programs (*Harambee House, Union Mission, etc.*)
- create Community Outreach toolkit
- internship with local preservation company

Spring 2010
**GRAPHIC DESIGN CLASS**
- Earth Day booth for education and advocacy
- promotional kit for economic growth & local reclamation
- community advocacy research and booklet
- public school poster campaign on innovative reuse
- prototype curriculum for elementary school lesson plans

- Common area furniture for Phase One designed by **FURNITURE DESIGN CLASS**

Summer 2010
**DESIGN or SUSTAINABILITY CLASS**
- “Springboard” project with Thrive Restaurant and prototypical American suburban strip mall
- Statistical research ‘brigade’ descends upon the Girl Scouts reclamation project to determine the quantity and quality of the deconstruction process
- Promotional video being made by **DYNAMIC TYPOGRAPHY CLASS**

Winter 2011
**DESIGN or SUSTAINABILITY CLASS**
- Energy Audit for all businesses in Whitemarsh Plaza
- comprehensize restaurant sustainable take-out materials
- Completion of Thrive outdoor eating area
- public educational event

Spring 2011
**GRAPHIC DESIGN CLASS**
- Earth Day booth promoting the value of reclaimed objects
- Contextual research into behaviors and beliefs of Savannah public regarding reclaimed materials.

- MFA Thesis project
Janet
CO-OWNER OF WILEY’S: BUSINESS SIDE

- Former public school teacher & competitive BBQ competitor
- Widely known destination for BBQ
- New restaurateur
- Fast turnover but needs more seating
- Environmental ambitions but cost-conscious
- Electric bill = monthly rent

green them.
“Get the system in the room.”
discovered business needs that can be met through sustainable means

uncovered state funding opportunities

turning skeptics into believers

facilitated the intersections of leadership and guidance where & when needed
1 DAY:
in with the old, out with the old
In 1866, George Jordan had his house that stood at 75 South Street, in Savannah's South Historic District. The house was moved to the location of the *Minnie Mansion*. The house was purchased by Charles Green in 1975 for a home for the elderly. The interior of the house was completely covered with cement until 2016 when it was restored. The house was bought in 2010 by Chuck and Joanne Aultman who graciously provided the  **Emergent Structures** with the opportunity to save the  **Reclaimed** material from the process in the early 1980s when the ship-lap was removed.

**These planters are constructed from harvested building materials that were destined for the landfill.**

**Origins of the Shiplap siding:**

In 1851, Mr. W. B. Inman built the *Inman House* which was located just north of the *Minnie Mansion* in the 1850s. The house was made from wood, painted and covered with stucco. In 1961, the house was replaced by a new home, and the old house was torn down. The siding was then put on the new building, which was later torn down at the end of the 20th century. **Emergent Structures** purchased the siding from the demolition site. **Emergent Structures** later transformed the siding into a beautiful piece of art in the *Inman House*.

**Origins of the Cypress roof:**

The roof of the *Cypress House* was made from cypress wood. The wood was harvested from the 1850s and used to build the roof of the house. The siding was then replaced in the 1960s. The wood was then transformed into the siding of the house today. **Emergent Structures** later transformed the wood into a beautiful piece of art in the *Cypress House*.

**Origins of the Heart Pine study:**

The **Heart Pine study** was made from heart pine wood. The wood was harvested from the 1850s and used to build the study of the house. The wood was then transformed into a beautiful piece of art in the *Heart Pine study*.
GIRL SCOUTS OF HISTORIC GEORGIA ::
Centennial Celebration of the founding of Girl Scouts of America :: 2012

ECO-CAMP ON ROSE DHU ISLAND
Strategic Partner ::
US Green Building Council
UNBUILD IT, AND THEY WILL COME ::

Turning skeptics into believers through demonstration projects.

Building a knowledge base for green jobs industries.
# BUILDING ONE

- Roof decking panels: heart pine 4’ long
- DENAILED & ready for action

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AIA Georgia Legacy Charette
Design & Build for Girl Scouts
Centennial celebration

1: July 23, 2010
2: July 24, 2010
3: August 20, 2010
4: Sept 20, 2010
5: 2011-2012
A pulse of change ideas creates the rhythm of change actions.

and a rhythm of change actions creates the pulse of change ideas.
Day 1 at 223 E. Jones Street
5 February 2011

emergent structures

Day 1 at 223 E. Jones Street
5 February 2011

emergent structures
emergent structures

223 E. Jones Street
25 February 2011
After Tidewater Visit 1
INITIATIVE 5

EMERGENCE ZONE

Export community-based reclamation model to other cities

INITIATIVE 2

SAVANNAH GARDENS REDEVELOPMENT

INITIATIVE 4

ROSE DHU ISLAND ECO-VILLAGE

INITIATIVE 5

SHUMAN PUBLIC SCHOOL GREENING

RECLAIMED MATERIALS

HARVEST PARTNER
(Business: NorSouth/Non-profit: Habitat for Humanity)

Design for Sustainability
Department at SCAD

facilitation // knowledge generation // data collection // manpower promotion // adaptative strategies // iterative growth // dissemination

INITIATIVE 7

BRANDING RECLAIMED MATERIALS

certify &
celebrate:
apply logo to any approved project in the city in order to raise awareness

Apply logo and information plaques to each project above to raise public awareness

INITIATIVE 8

INTERNATIONAL SYMPOSIUM
late 2011 or early 2012

INITIATIVE 6

24-HOUR BARN RAZING as spectacle and art scene

PUBLIC SCHOOL (Shuman Elementary PTA)

WORK FORCE (Habitat for Humanity)

FACILITY PARTNER (NorSouth)

KNOWLEDGE PARTNER (Southern Pine Company)

charette w/ students, parents and teachers

various projects still to be determined

GIRL SCOUTS of COASTAL GEORGIA (Nina Smith)

WORK FORCE (Girl Scouts)

FACILITY PARTNER (JT Turner)

KNOWLEDGE PARTNER (USGBC)

planning: needs, on-site storage, hauling

2-day volunteer 'feasibility' harvest

Eco-village build on Rose Dhu Island

LOCAL GREEN RESTAURANT (Thrive Cafe)

WORK FORCE (Harvest:NorSouth Build:volunteer/students)

FACILITY PARTNER (Land owner & tenants)

KNOWLEDGE PARTNER (US Green Building Council)

charette w/ land owner and tenants

outdoor furniture & eating/rest area

ITERATIVE PROCESS:
Several similar small-scale projects are in waiting

GENERAL CONTRACTOR (NorSouth)

WORK FORCE Carpentry Apprentice Programs (Harambee House)

DEMO CONTRACTOR (TBD)

DEVELOPER (Mercy Housing)

ITERATIVE PROCESS:
Phase 1 educates
Phase 2 educates
Phase 3 educates

newly discovered innovations

destruction operated by demo contractor

please curb your porch

studs-to-trusses

bricks

wall caps

tubs of aggregate

LOCAL CRAFT SPECIALIST (Johnnie Powers)

WORK FORCE At risk youth & underemployed apprentices

FACILITY PARTNER (Southern Pine Co.)

TRADE PARTNER (Savannah Area Convention and Visitors Bureau)

KNOWLEDGE PARTNER (Union Mission/Starfish Cafe)

Small-scale production line of local goods

terrace furniture accompanied by info about artist & project

trolley tours to craft center(s)

sales to local businesses and residents

tourist sales in local shops

emergent structures
Step Up Savannah
CAP (Carpenter’s Apprentice Program)
These planters are constructed from reclaimed building materials that were destined for the landfill.
—promote ‘positive deviants’ already in the community
—raise awareness
—create educational tools
—incentivize behavior
THE AFTERLIFE of a LONG LEAF PINE

SCENE 1: 1870s - 2008

SCENE 2: 2008 - 2010

35' sections of 3 pilings used to make flooring

'drops' or leftovers from the flooring

SCENE 3: 2010 - ?

an urban planter!

URBAN PLANTER :: APRIL 0 2010

Owned and operated by Gunn Meyerhoff Shay Architects

Designed by Patrick Shay

Custom built by Dennis Clay

Heart pine recovered by Southern Pine Company
this ain't junk
this ain't junk

For more information about material reclamation visit www.emergentstructures.com

© Adrian Perez-Pena
this ain't junk

For more information about material reclamation visit www.emergentstructures.com

© Adrian Perez-Pena
Gallery shows to pique public interest
INITIATIVE 8
photographers
documentary film makers
oral historians
historians
sociologists
anthropologists
preservationists
architects
craftsmen
artists
social entrepreneurs
and so on...

Symposium on reclaiming building materials
We have parties and awards, too.
2011: 90 units remaining
this is not a board
this is not a board
it’s a springboard for sustainable change.
76,500,000 tons of material wealth landfilled in a single year.
195,000 public housing units have met the wrecking ball across the country since 2006, and over 230,000 more units are scheduled for demolition, according to the US Housing and Urban Development Department.
JOINT FUNDRAISER WITH HUMANE SOCIETY OF GREATER SAVANNAH!

1) Register to build a pet structure before SEPT. 24TH
(register by this Friday and get 4 sq ft of reclaimed material free!)

2) Celebrate on OCT. 1ST
Live and silent auction for the structures, and a Pet Adoption event, all in the middle of an all-day networking event

Visit emergentstructures.org or humanesocietysav.org for more information