



Strategic sourcing for lifecycle management of DoD furnishings

John Wuichet
JMWA / IMCOM-SE

Federal Environmental Symposium - West
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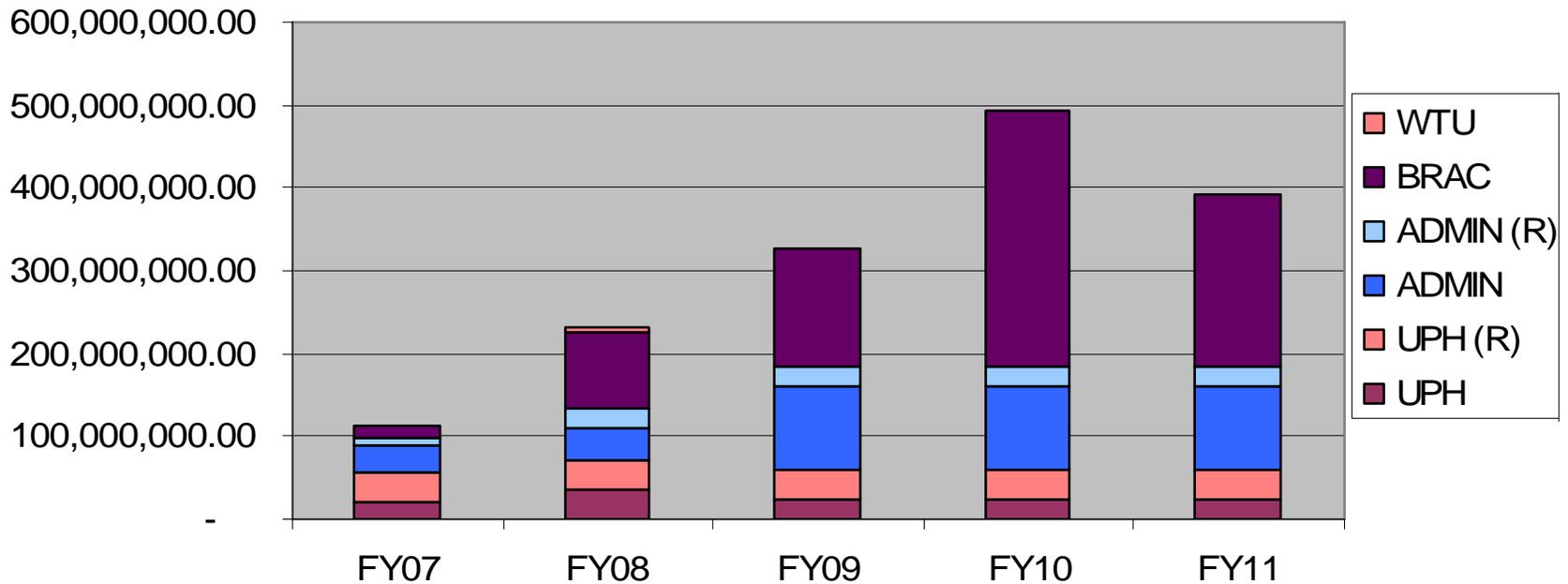


Overview

- Army furniture and sustainability
 - Disposal
 - LEED
- Mattress lifecycles
- Sustainable Interiors Showcase (SIS)
- Way forward



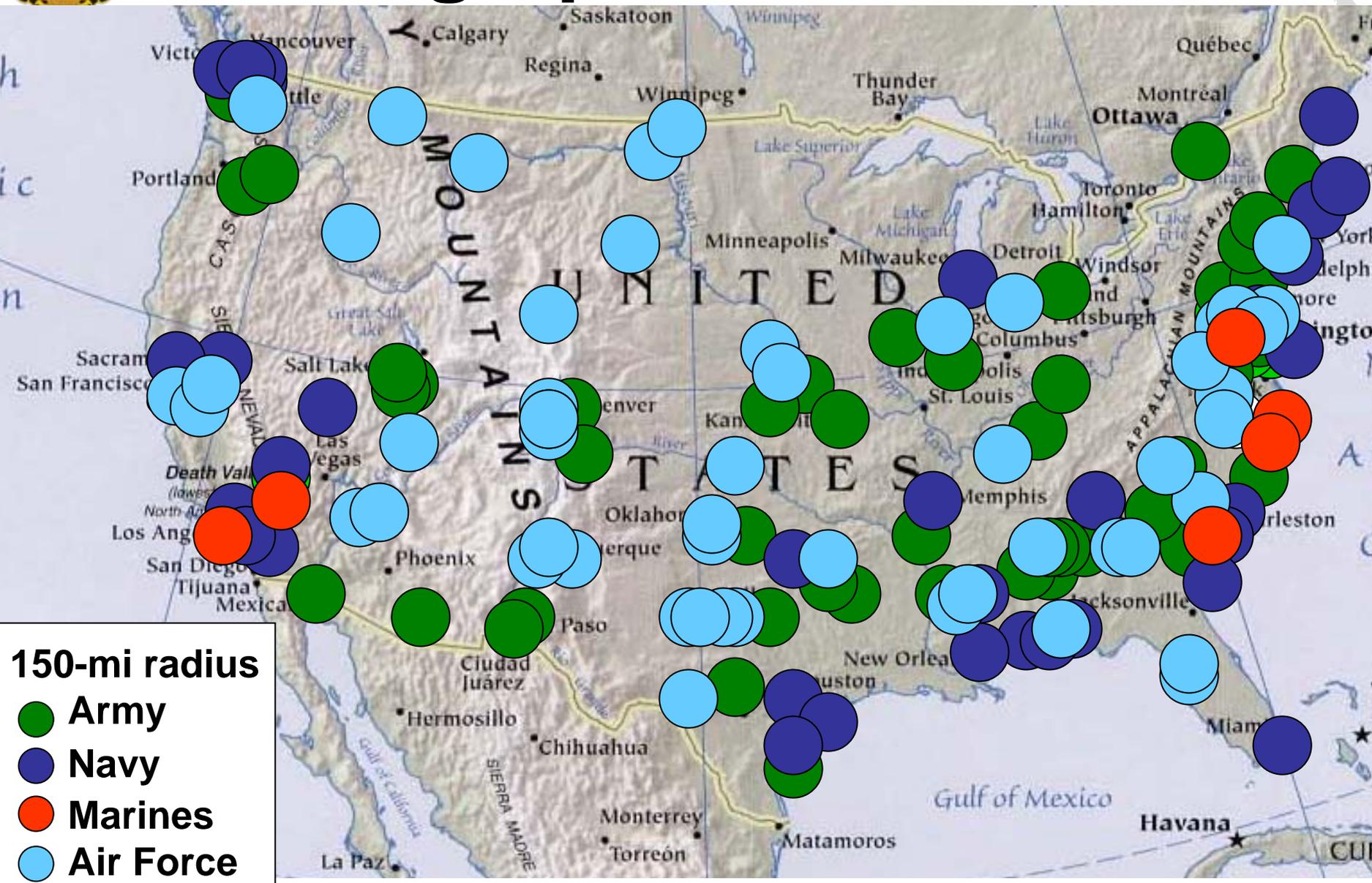
Buying Power



Army 5-year Furnishings Forecast:
\$2.3 billion



Geographic Influence



150-mi radius

- Army
- Navy
- Marines
- Air Force



Mission Integration

How we *won* the war



How we *win* the war

“Sustainability is a national security imperative in a world of decreasing natural resources and increasing demand.”



*Mr. Pete Geren
Secretary of the Army
2007*



Huntsville Centralized Furniture Procurement Program



Includes

- Initial issue and replacement UPH and office furniture
- Replacement UPH, initial UPH for MCA Barracks Upgrade Program
- Garrison OMA-funded non-BUP barracks renovations
- Barracks construction under \$750K
- Non-UPH MCA and UMMCA requirements in 1391 Tab F – even if PA's or Congressional Adds do not provide funding
- Repair and replacement of office furniture for OMA funded projects under \$750K

Excludes

- All OCONUS except Korea, Japan, Hawaii, and Alaska
- MEDCOM/Dental
- Army Reserve
- National Guard
- Physical Fitness Centers
- Entrance Processing Stations
- Child Development Centers
- Dining Facilities
- Relocatables
- Carpet and flooring



Centralized Buying: Benefits

- Consistent quality
- Reduced time/errors via repeat ordering
- Historical data for more accurate future estimates
- Low management costs: FY07 2.2%
- Cost Avoidance:
 - \$54M over 8 years (since FY00)
 - Average 23% savings over GSA catalog pricing
 - FY06 savings bought 4,500 (of 32,436) barracks spaces
 - FY07 savings bought 568 (of 39,301) barracks spaces



IMCOM-SE

- 8 states and Puerto Rico
- 20 installations/1.1M acres
- 1.5M soldiers, civilians, families
- 34M meals
- \$300M annual construction
- \$6B BRAC construction
- 28,000 buildings
- 20,000 acres paved surface
- 331 environmental permits
- Closed 22 of 23 landfills



- ***Diversity of missions/markets***
- ***Proximity/economies of scale***
- ***Volunteers***



Goals Support Core Business Processes

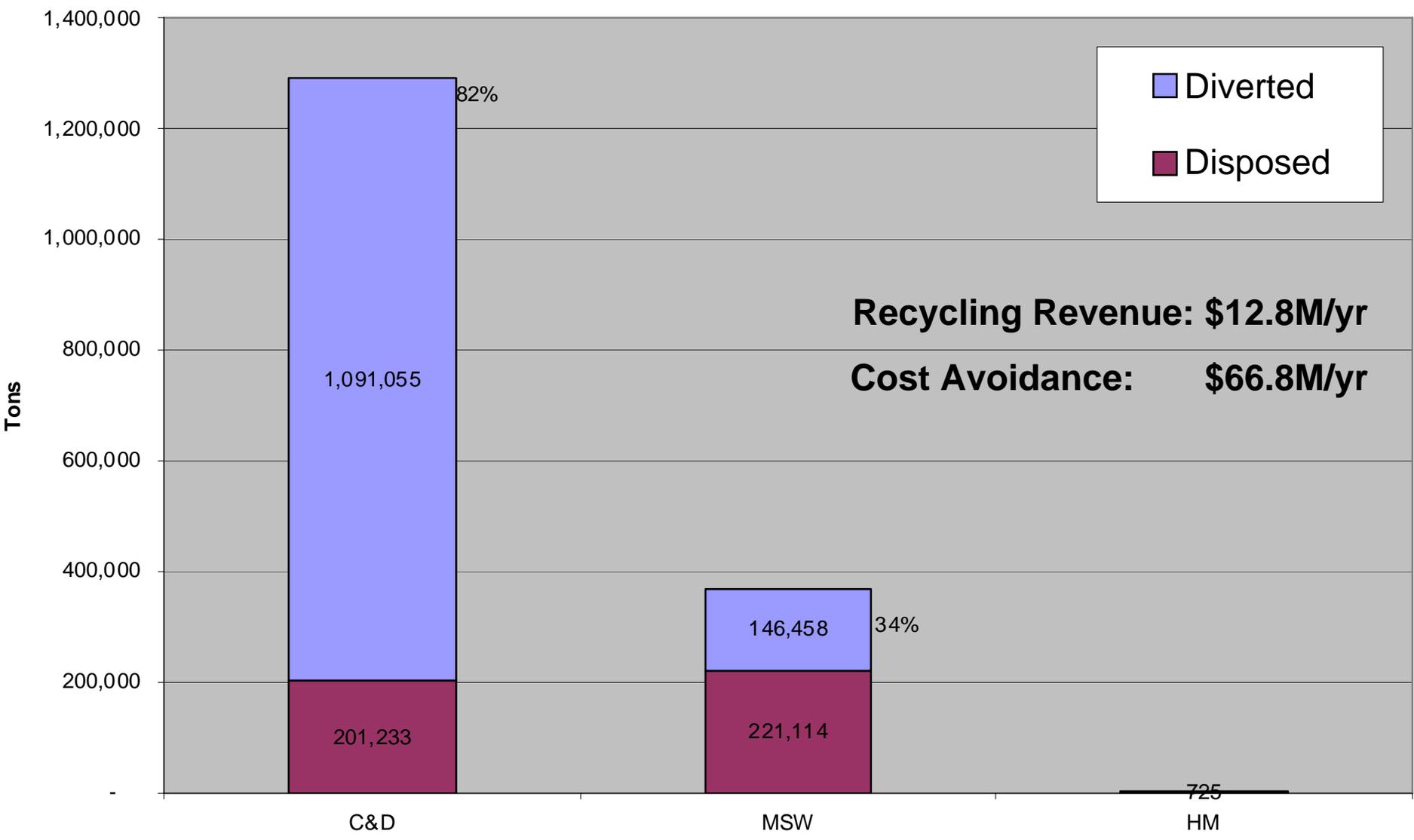
- **Military Training/Land Management**
 - Optimize use of existing lands
 - Easements/buffers around fence lines
- **Transportation/Logistics**
 - Convenient (reduced congestion)
 - Reliable, clean (emission-free), renewable fuels
- **Facilities**
 - **LEED standards**
 - Renewable, secure energy
 - Reduce water use, improve quality
- **Regional/Community Planning**
 - Development/growth, compatible land use, regional education
- **Procurement/Contracting**
 - Completely cyclable non-toxic materials
 - Buy local
 - **Zero waste**



Triple Bottom Line



FY07 Army SERO Disposal & Diversion





FY05 IMCOM-SE Tons Recycled

WOOD	77,764.25
C&D OTHER	69,527.16
CONCRETE	65,363.58
ASPHALT	50,134.78
METAL	36,331.77
CARDBOARD	11,736.22
SOIL	8,134.32
PAPER	4,046.02
P.O.L.	2,877.41
OTHER	1,816.66
TIRES	1,141.97
GLASS	470.29
PLASTIC	206.18
BATTERIES	161.59

ANTIFREEZE	131.03
FOOD (Grease/Fat/Bones)	115.84
SOLVENT	100.90
E-WASTE	53.70
APPLIANCES	42.22
LAMPS	23.48
COOKING OIL	22.76
TEXTILES	13.72
TONER CART.	9.85
PAINT	6.00
MATTRESSES (NERO 06)	2.40
INSULATION	1.21
TRANSFORMERS	0.86
THERMOSTATS	0.03

New in FY07: Missiles



Mattress Problem



Trends

- Total landfill bans
- Quantity caps (≥ 64 per week)
- Surcharges (+\$2 to +\$16 per mattress or \$80 to \$600 per ton)



Mattress Life-Cycles

Partnerships

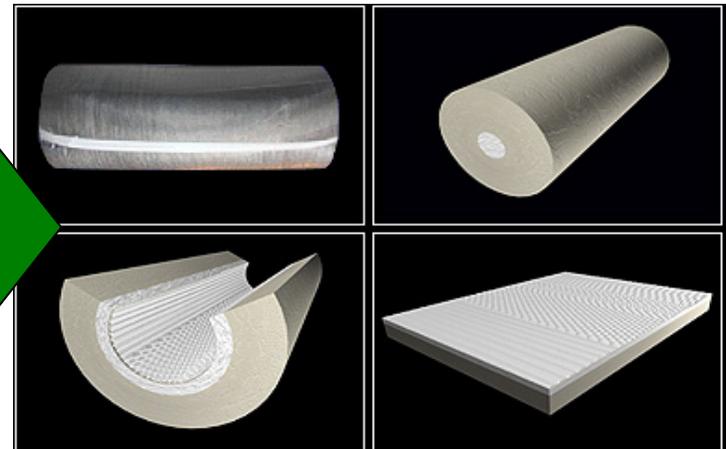
- International Sleep Products Association - Mattress Disposal Task Force
- Georgia Tech - Graduate College of Management
- Installation DOLs, DPWs, DOCs

Solutions

- Ft Bragg refurbishes, saving 50%
- Ft Jackson buys 100% foam units; maker takes back and recycles
- Ft Gordon donates, buys foam
- ***Redstone Arsenal recycles coil units for credit toward new foam***
- Lean Six Sigma



Solution



Furniture Problem



Fort Bragg

- NC: No furniture in C&D landfill
- 20K pieces/yr
- Goal: Zero waste by 2027
- NC furniture jobs -20% since '90

Fort Gordon

- GA: Furniture ok in C&D landfills
- On-post C&D landfill nearly full

Army-wide

- ACSIM policy: min. 50% C&D diversion

Army 5-year Furnishings Disposal Forecast:

\$115 million



Potential LEED Credits

Army policy: All new construction min. LEED Silver

Materials and resources

- Storage & collection of recyclables (prerequisite)
- Divert 50% or 75% of construction waste (also ACSIM policy)
- Reuse 5% or 10% of materials
- Specify 10% or 20% recycled content materials
- 20% of materials manufactured regionally
- 10% of materials extracted and manufactured regionally
- Rapidly renewable materials

Low-emitting materials

- Adhesives, sealants, paints, coatings
- Carpet systems
- Composite wood and laminate adhesives
- Systems furniture and seating

Innovation in design

- Adaptability (raised floors, movable walls)





Sustainable Interiors Showcase



- Working-model green offices
- GSA vendors demonstrate one-stop shop to view, touch, compare, price materials
- Approved by GCs with concurrence from SJAs, DOCs
- Satisfies multiple vendor bid and green purchasing requirements
- Win-win-win-win
 - Lifecycle cost-effective
 - Increases diversion
 - Potential LEED credits
 - Healthier workplace
- Ft Lewis SecArmy Award
- Expanding to Navy SW Region
- Coordination: Huntsville Corps





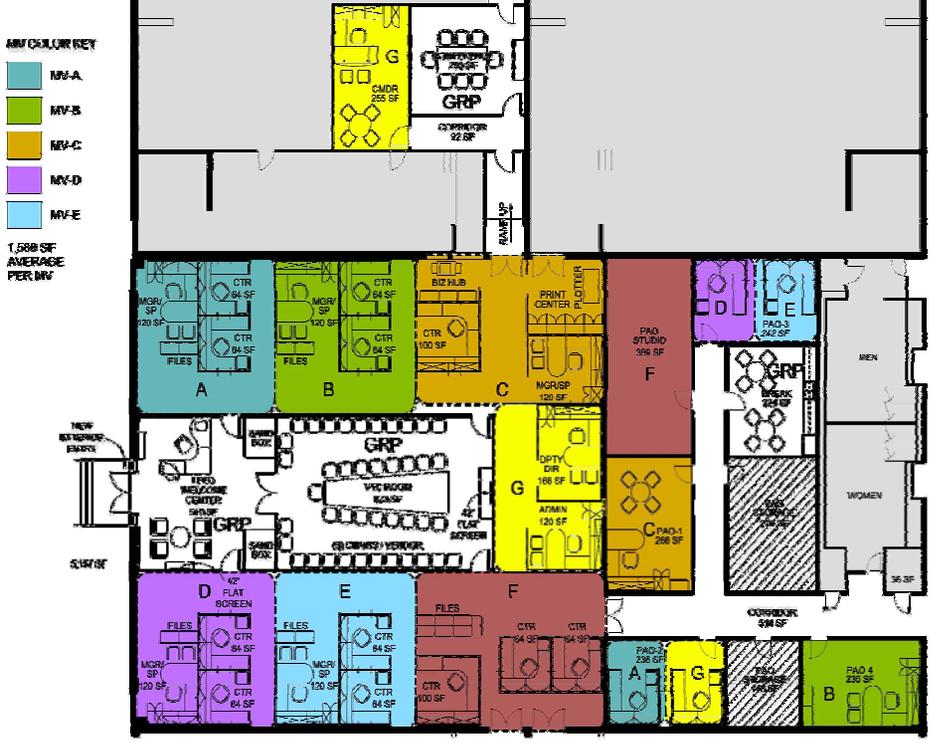
Sustainable Interiors Showcase



	Ft Lewis	Ft Jackson	Ft Benning	Navy SW
Open	Apr 2005	Jun 2007	Dec 2007	Aug 2008
Size	4,500	8,000	12,000	2,660 (plus executive offices in planning phase)
Use	HazMat Center	In-Out Processing	BRAC Planning	Interior Design
Former Use			Fitness Center	Pre-WWII Storage
On Display	Office furniture, flooring	Office furniture, flooring, paint, GSA kiosk	Office, flooring, paint, lighting, conf rm, bldg materials, GSA kiosk; 2,000 sq ft barracks annex under construction	Office furniture, flooring, conf rm, library, kitchen, nonfunctional restroom
GSA Vendors	9	11	20	27
Occupants	10	40	18 incl 2 Colonels	13 incl 1 Admiral
Tours	TU & TH 1p w/ notice; or by appt	2 nd TU 1130a-130p; or by appt	Appt only	8-9a and 1-2p daily w/ notice



Interior Design: Fort Benning

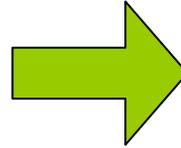




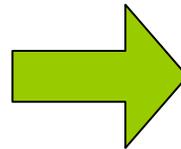
Before & After



Ft Jackson



Ft Benning





Awareness

Army brings 'green' indoors with new office

THE BAYONET
Cheryl Rodewig

Fort Benning is the third Army installation to open an environmentally friendly or "green" showcase office. The ribbon-cutting ceremony was Friday.

The Sustainable Interiors Showcase, located on the first floor of Infantry Hall, features fully furnished offices, supplied with materials from 20 different manufacturers. The products include 100-percent recycled carpet, energy efficient lighting and paint, which emits fewer volatile organic compounds than traditional paint.

The goal is to take nothing from the

environment that is not readily and rapidly renewable, without hampering production or revenue, said Ray Anderson, founder of Interface, Inc., who spoke during the ceremony.

"This is new thinking," he said. "This environmentally friendly, sustainability showcase is going to be a right step to make sure we're accomplishing our goals."

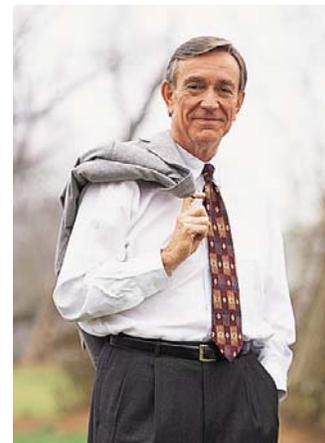
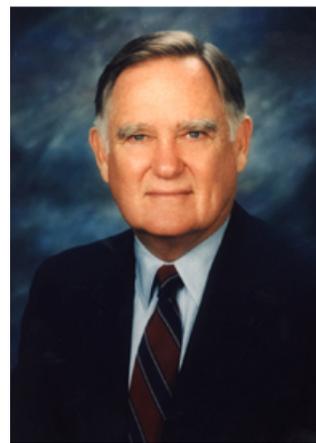
According to the Leadership in Energy and Environmental Design standard, developed by the U.S. Green Building Council, construction on all Army installations now needs to be green, said Peter Lukken, sustainability planner at Fort Benning.



Cheryl Rodewig

Lt. Col. Tom Brittain admires a glass panel wall, one of the many environmentally friendly furnishings on display during the sustainability showcase Friday afternoon.

See Office, A9





Way Forward

- Sustainable Interiors Showcase
 - Expand to more high-construction volume installations
 - Integrate with HNC program
- Advance HNC sustainability efforts
 - New hires at HNC
 - Evaluate emerging BIFMA sustainability standard
 - Establish sustainability as a primary benchmark for quality in Army furniture policy, “salient features,” Model RFP
- Centralized *procurement* to centralized *management*
 - Fund HNC to manage lifecycle maintenance/disposal/recycling
 - Apply disposal cost avoidance toward additional procurement quality/quantity
- Lean Six Sigma
 - Mattress program



A WAR MESSAGE



- ① Conserve everything you use
- ② Buy only what is necessary
- ③ Salvage what you don't need
- ④ Share what you have

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John Wuichet
JMWA / IMCOM-SE
404-464-0708
john.wuichet@us.army.mil