



ATLANTA

CoreNet Global Summit
6-8 November 2011

#20 Tools for Collaborative and Interactive Workplace Solutions

Moderator: **James Baker**, *Deloitte Consulting*

Speakers

Kevin Kelly, *GSA*

Michael Bloom, *GSA*

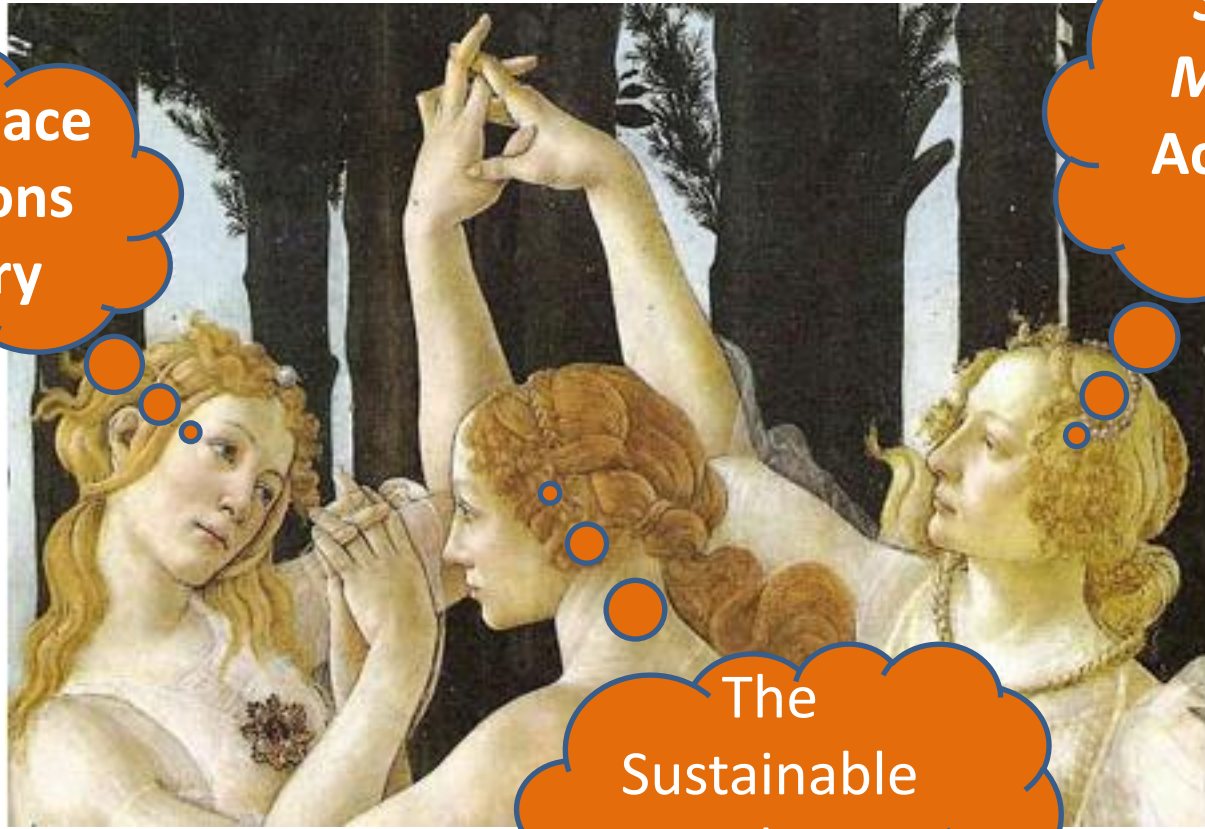
Janise Nichols, *GSA*





Tools for Collaborative and Interactive Workplace Solutions:
The Renaissance of the Workplace Interior

Workplace
Solutions
Library



Sound
Matters
Acoustics
Tool

The
Sustainable
Facilities
Tool

Creating healthful, productive workplaces requires us to:

- Push sustainable practices beyond large mechanical systems & expert-led construction projects.
- Engage building tenants & occupants in the process of creating high-performance workplaces
- Capture & shape the net effect of everyday projects and behaviors that occur without the oversight of design & Workplace professionals
- Allow end-users to engage in experiential learning & problem solving regardless of their previous knowledge level



Martha Johnson has put us on a diet

“We are at a huge tipping point with regard to our cultural and societal notions about workplace.”



Martha Johnson, Administrator GSA



Under-utilized asset

bloated workspace

optimizing the asset

with trim, fit space
creating human energy
while saving fossil energy

GSA’s extreme challenge is to consolidate three major GSA locations in DC into 1800 F St, NW which will virtually triple the current density.

Three new GSA tools that leverage collaborative, immersive 3-D technologies that allow users to see & address problems endemic in the modern workplace.

1) The Workplace Solutions Library: (www.Workplacesolutionslibrary.com)

- Slim down footprint *while improving workplace quality*. Identify workstyles & translate them to appropriate space design that affords *workable mobility*, + appropriate furniture choices + tools to support change management.

2) Sound Matters: Acoustic Comfort for the New Workplace:

- Specify designs & products & modify human behavior to achieve workplaces that furnish acoustic comfort . Features cost-effective sound mitigation strategies & tips on workplace behavior modification & workplace layout.

3) Sustainable Facilities Tool: (www.sftool.gov):

- Frame sustainability information for all & enable wise sustainable facilities choices

A one-stop portal to empower any government or private sector user to identify and prioritize cost-effective green building strategies that will lead to improved environmental performance in small building projects.

Targeted User Community:

- Facility Managers
- Realty Specialists
- Project Managers from Governmental Agencies
- Private Sector Developers

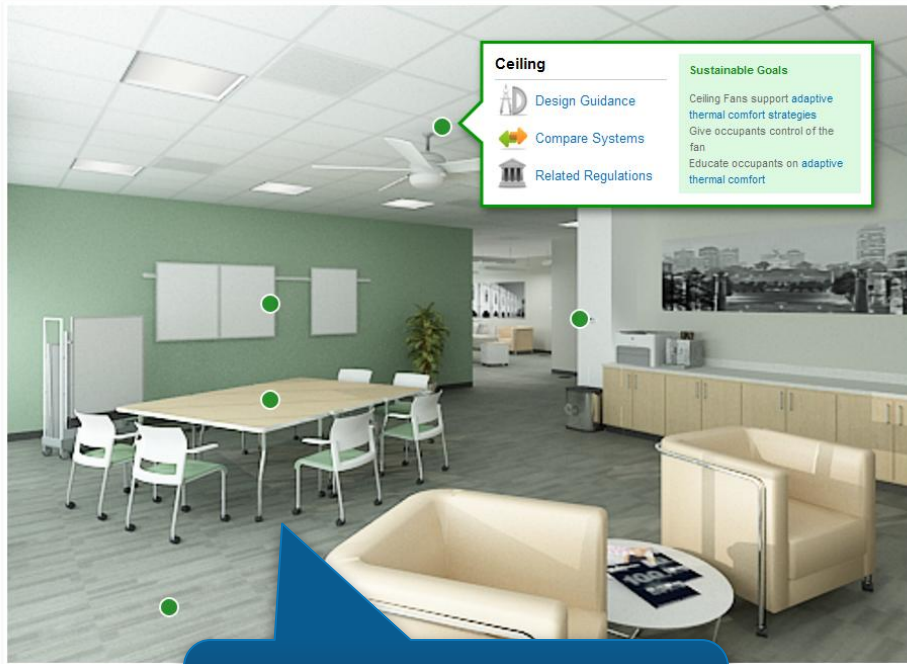


Open Teaming Space

Teaming spaces are designed to foster collaboration and innovation with tools for information sharing, easy to reconfigure work surfaces where groups can spread out the work, and vertical surfaces for making work visible. Seating is agile and passively ergonomic; to move around the space easily and comfortably. Configure space with privacy screens to surround team members and allow them to brainstorm freely, without disrupting others. Energy savings are maximized through the use of **occupant sensors** for powering down lamps and temperature when movement is not detected and automatic **lighting controls** for light dimming based on time of day and available daylight.

Click on a hotspot to learn sustainable strategies and compare materials for that system

[Change View](#)



3-D Interactive Walkthrough of Office Interiors

Key Features:

- Valuable resources for **sustainable building principles and concepts**
- **3-D interactive walkthrough** of office interiors & **material comparisons**
- **Sustainable metrics, essential regulations & guidelines**, and case studies
- **Take-away checklist** for tracking sustainable design
- **Intuitive and easy-to-navigate** user interface

Open Teaming Space

Teaming spaces are designed to foster collaboration and innovation with tools for information sharing, easy to reconfigure work surfaces where groups can spread out the work, and vertical surfaces for making work visible. Seating is agile and passively ergonomic, to move around the space easily and comfortably. Configure space with privacy screens to surround team members and allow them to brainstorm freely, without disrupting others. Energy savings are maximized through the use of occupant sensors for powering

Click on a hotspot



	Wood Flooring	Cork	Bamboo
Description	There are many different species of wood and types of wood flooring including reclaimed , suppressed , and wood from responsibly managed forests .	Cork flooring is made from the by-product of cork oak trees. The bark can be stripped without introducing damage to the tree.	Bamboo is a grass that has a short growth cycle and continues to grow after it is cut without replanting or cultivating. Durability is dependent upon the maturity of the bamboo. Bamboo provides for extremely durable commercial grade floors when fully mature, usually 8-10 years.
IEQ	Wood Flooring	Cork	Bamboo
Pollutants	✔ Does not retain pollutants, easy to clean	✔ Does not retain pollutants, easy to clean	✔ Does not retain pollutants, easy to clean
VOC - Binders, Adhesives, Finishes	ⓘ VOC emitting products are used during finishing of material or system. Ensure that low-VOC finishes are used. Use nails or staples to install.	ⓘ VOC emitting products are used during production , installation and finishing of material or system. Ensure that low-VOC adhesives, binders and finishes are used.	ⓘ VOC emitting products are used during production and finishing of material or system. Ensure that low-VOC binders and finishes are used. Use nails or staples to install.
Ergonomics	✖ Wood flooring is hard and therefore does not provide ergonomical benefits.	✔ Consider installing in areas of the building where occupants primarily stand, such as a mail room, security, or possibly break room to help alleviate foot pain as cork can naturally compress and absorb pressure.	✖ Bamboo is a hard material that does not provide ergonomic benefits
Acoustical	✖ May contribute to noise pollution	✔ Provides acoustical benefits due to over 100,000 cells per cubic inch which absorb and so	✖ May contribute to noise pollution
Air Quality, Maintenance	ⓘ Typically requires waxing and buffing, and may require sanding and refinishing. Look for low VOC products.	ⓘ Re	

Comparison feature provides benefits and considerations for each option selected

Key Benefits:

- Empowers decision-making for **sustainable goals & objectives** to meet the Guiding Principles
- Promotes the use of **energy efficient, sustainable design** and **environmentally preferable materials** in renovations, alterations & leases
- Enhances skill sets to assess **green leases** & architect/design team deliverables
- **Supports green practices** throughout the life of a facility

[LEARN](#)[PLAN](#)[EVALUATE](#)[MY PROJECTS](#)

Break/Pantry

Break rooms provide space for beverage containers and utility and refrigerators. Include adequate lighting and penetrate adjacent rooms by sound to conserve water. Make sustainable choices.

[Strategies](#)

Click on a hotspot to learn sustainable strategies and compare materials for that system



Users can click on hotspots to compare materials, read related design guidance and regulations

Each space type provides an overview with common strategies to make the space more sustainable

Lighting

- ✔ Use **controls** that turn off electric lighting in response to natural light levels to reduce energy consumption.
- ✔ Use sustainable lighting practices such as **occupant sensors** to decrease utility costs.
- ✔ Limit the use of accent lighting to specific artwork or educational items to reduce energy consumption.

Click Design Guidance to View Additional Green Tips



Design
Guidance



Compare
Systems



Related
Regulations

shers
t to
tors
nning

View



Lighting

Design Guidance

Compare Options

Relevant Regulations

Design Guidance

Overall Strategies

Lighting within the office space is a major contributor to energy consumption. Incorporating sustainable lighting practices, such as lighting controls and [daylighting](#), may reduce energy consumption and increase occupant satisfaction. Improper lighting systems are inefficient and give off extensive heat, leading to discomfort and more energy [waste](#) through the [air conditioning](#) system. [Daylighting](#) is usually preferred to artificial light and contributes to the well being of the individuals in the office space.

Task Lighting

Decorative / Accent Lighting

Lamp Types

Provides complete control over the level of content drill down and information displayed

- ✔ Incorporate sustainable lighting practices such as [daylighting](#) and [occupant sensors](#) to decrease utility costs.
- ✔ Limit the use of accent lighting to specific artwork or educational items to reduce energy consumption.
- ✔ Incorporate [daylighting](#) or views to the outside to create an inviting, aesthetically pleasing environment as natural light is usually preferred to artificial lighting.
- ✔ Use efficient LED task lighting to reduce energy consumption while providing occupants control of the light levels.
- ✔ Use [direct-indirect lighting](#) to contribute to an efficient lighting system.
- ✔ Use efficient fluorescent lamps as they do not give off as much heat and have a long useful life.

Lighting

[Design Guidance](#)
[Comparison](#)

Comparison feature provides benefits and considerations for each option selected

Compare Lighting Options

i The intent of the 'Evaluate Section' is to assist users in understanding the sustainable attributes of various materials and systems. Please note that this tool does not promote any particular material or system, some may have benefits and considerations as they relate to greening a project.

+ Benefit
 - Consideration
 i Information

	Occupant Sensor	Manual Light Switch	Timer
Description	Occupant controls use sensors to determine when there are people in a given space. The lights turn on when motion or heat is detected in the space and they turn off based on a set amount of time in the absence of heat or motion.	Manual light switches are typically wall mounted switches that control lighting within a room.	Timer controls can be set to turn lights on and off at certain times, therefore specifying the duration of time the lights will be turned on.
IEQ	Occupant Sensor	Manual Light Switch	Timer
Daylighting, Lighting, Views	- Occupant sensors turn the lights on when motion or heat is detected regardless of the daylight that may be present in the space.	i A manual light switch can be used to turn the lights off when daylight is present in the space.	- Timers turn the lights on based on a set time schedule regardless of the daylight that may be present in the space.
Materials	Occupant Sensor	Manual Light Switch	Timer
Effectiveness	i Occupants need to understand the function of the controls in order for them to be effective. Otherwise, users may override controls and leave the lights on, thus negating the benefits.	i Educate occupants in order to encourage them to turn the lights off when not in use.	i It is important that timers be matched to the specific task of the space to avoid leaving occupants in the dark.
Energy	Occupant Sensor	Manual Light Switch	Timer
Other	+ May reduce the amount of electricity consumed as controls respond to the	- Manual light switches do not respond to the ambient light	+ May reduce the amount of electricity consumed as lights

rs
ing
aw

Shows relevant regulations with link to source document.

Lighting

Relevant Regulations

Relevant Regulations

EB = Existing Buildings NC = New Construction and Major Renovation

Guiding Principles

[More Info in Next Section](#)

Environmentally Preferable Product (Guiding Principles, Executive Order 13514 & 13423 [EB, NC])

Section: V. Reduce Environmental Impact of Materials



Use products that have a lesser or reduced effect on [human health](#) and the environment over their lifecycle when compared with competing products or services that serve the same purpose. A number of standards and ecolabels are available in the marketplace to assist specifiers in making environmentally preferable decisions. For recommendations, consult the Federal Green Construction Guide for Specifiers.

[Federal Green Construction Guide for Specifiers - Whole Building Design Guide](#)

[Federal Green Construction Guide for Specifiers](#)

[Environmentally Preferable Purchasing \(EPP\)](#)

Daylighting and Lighting Controls (Guiding Principles, Executive Order 13514 & 13423 [EB])

Section: IV. Enhance Environmental Quality



Automated lighting controls (occupancy/vacancy sensors with manual-off capability) are provided for appropriate spaces including restrooms, conference and meeting rooms, employee lunch and break rooms, training classrooms, and offices. Two options can be used to meet additional [daylighting](#) and lighting controls performance expectations: ? Option 1: Achieve a minimum daylight factor of 2 percent (excluding all direct sunlight penetration) in 50 percent of all space occupied for critical visual tasks, or? Option 2: Provide [occupant controlled](#) lighting, allowing adjustments to suit individual task needs, for 50% of regularly occupied spaces.

Energy Efficiency (Guiding Principles, Executive Order 13514 & 13423 [NC])

Section: II. Optimize Energy Performance



Establish a whole building performance target that takes into account the intended use, occupancy, operations, plug loads, other energy demands, and design to earn the [ENERGY STAR](#) - targets for new construction and major renovation where applicable. For new construction, reduce the energy use by 30 percent compared to the baseline building performance rating per the American National Standards Institute (ANSI)/American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., ([ASHRAE](#))/Illuminating Engineering Society of North America (IESNA) Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential. For major renovations, reduce the energy use by 20 percent below pre-renovations 2003 baseline. Laboratory spaces may use the Labs21 Laboratory Modeling Guidelines. Use [ENERGY STAR](#) and FEMP-designated Energy Efficient Products, where available.



ers
o
rs
ing
ew



Search



LEARN

PLAN

EVALUATE

IMPLEMENT

SHARE

MY PROJECT(0)

Implement

My Projects

Store and manage green project information including material checklists

[Add a New Project](#)

Click "Add Materials" to activate the project and add materials to the evaluate section.

Name	Description	Type	Size	Actions
Office Bldg A - Bathroom Renovation	Old bathroom needs new flooring and upgrades. Existing toilets are operating at 3.5 gallons per flush, need to replace 5 toilets and install water conserving faucet aerators.	Bathroom	400	Edit Details Add Materials Delete Project
Office Bldg B - Conference Room Upgrade	Office Bldg B project includes retrofitting 6 large conference rooms and 2 support work areas with efficient lights, occupancy sensors, Energy Star office equipment and other technologies to lower energy use.	Conference Room	4000	Edit Details Add Materials Delete Project
Kitchen Installation	Need to replace aging and worn cabinets in office kitchen with green materials and environmentally preferable countertops	Kitchen		Edit Details Add Materials Delete Project
Office Furniture Replacement		Small Office		Edit Details Add Materials Delete Project



[Home](#)
[LEARN](#)
[PLAN](#)
[EVALUATE](#)
[IMPLEMENT](#)
[SHARE](#)
[MY PROJECT\(6\)](#)

Enclosed Conference

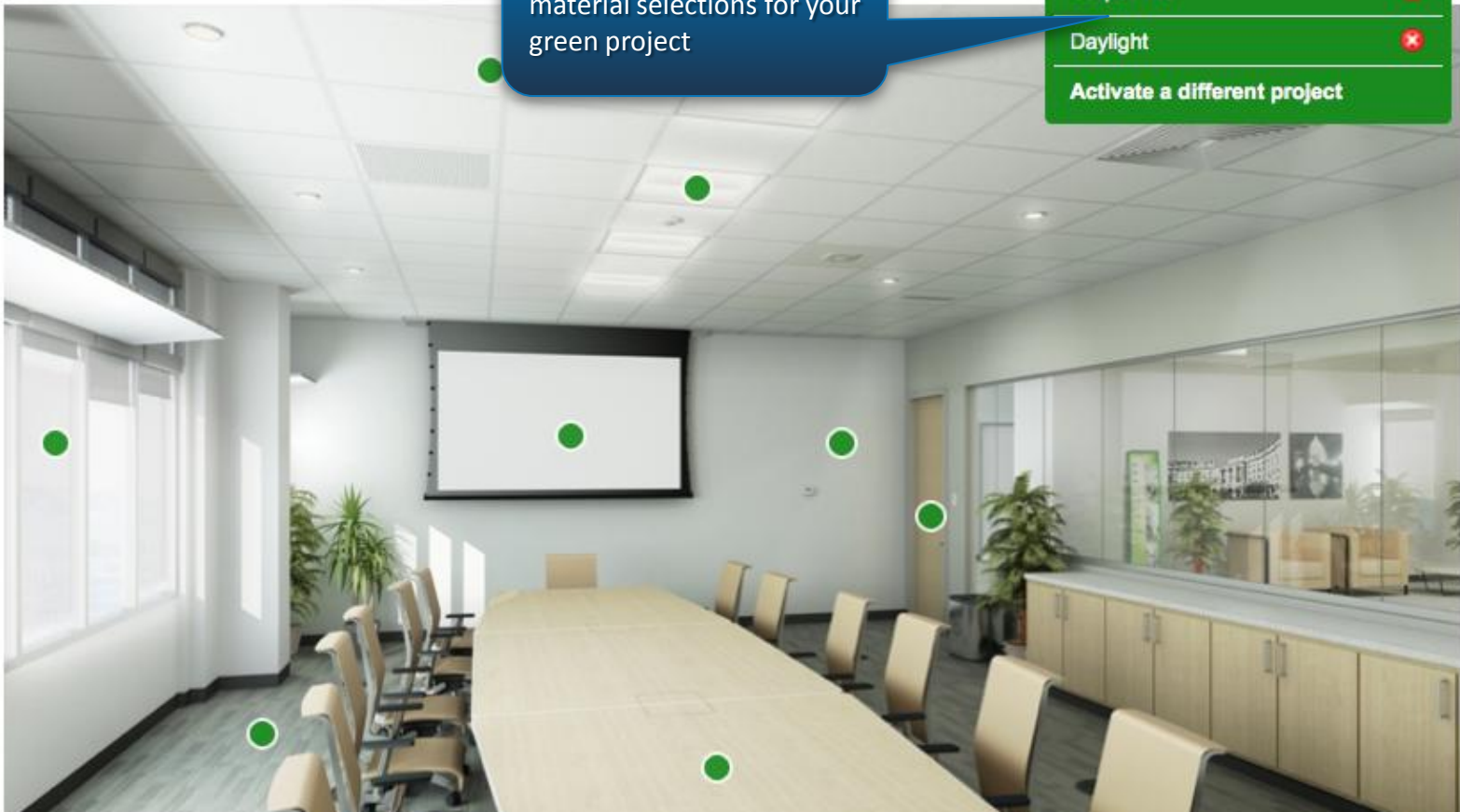
Enclosed conference rooms should be designed to facilitate video conference technologies to reduce travel related GHG. Use individual temperature & lighting controls to save energy and different sizes. Include movable partitions to separate larger rooms if needed. Optimize daylighting strategies by utilizing Strategies

Click on a hotspot to learn sustainable strategies and compare materials

Easily add and remove material selections for your green project

View Office Bldg B - Conference Room Upgrade Details

- Direct
- Occupant Sensor
- Shades
- Composite Wood Furniture
- Carpet Tile
- Daylight
- Activate a different project**





E

Click



Flooring

Design Guidance

Compare Options

Relevant Regulations

Compare Flooring Options

Carpet

 Broadloom Carpet Carpet Tile

Dynamically add project materials and systems to your green project

Compare Selected

Hard Surface

 Terrazzo Ceramic Tile Linoleum Vinyl Flooring Wood Flooring Concrete Flooring Rubber Flooring Fluid Applied Cork Bamboo Cut Natural Stone

[LEARN](#)[PLAN](#)[EVALUATE](#)[IMPLEMENT](#)[SHARE](#)[MY PROJECTS](#)

Share

[Home](#)[Stories](#)[Questions](#)

User Stories



Centralized Filing



Connected Workplace

Have a story to share?

Have you successfully integrated sustainable design into your space? Did something not go the way you planned? Upload your pictures and a brief write-up to share your success/struggles with your green renovation. Get comments from the community and helpful suggestions to your issues.

Share green success stories and lessons learned!

Post sustainable design questions and discussion topics

[See All Stories](#)[Ask a Question](#)

Questions

68

Viewed

Is Bamboo a Sustainable Building Material?

9 Nov by bgardner

64

Viewed

What are VOCs?

VOC

12 Nov by mcorrigan



Share

Home Stories Questions

Question

69

Viewed

Is Bamboo a Sustainable Building Material?

I'm thinking of choosing bamboo flooring for our break room, but answers as to how sustainable it is.

Answer

Bamboo flooring is a sustainable design choice. It is a durable product that is harvested from bamboo, a fast-growing wood product. It has a low carbon footprint, low embodied energy, contains little to no recycled material, can negatively impact indoor air quality, and have a negative affect on indoor air quality.

Questions are tagged and linked to related site content

[Back to Questions](#)



Bamboo

Description

Bamboo is a grass that has a short growth cycle and continues to grow after it is cut without replanting or cultivating. Durability is dependent upon the maturity of the bamboo. Bamboo provides for extremely durable commercial grade floors when fully mature, usually 8-10 years.

Tips

O+M Tips

- Use cleaning chemicals and solutions that are [Green Seal](#) certified.

End of Life Tips

- Not easily recycled as the bamboo strips may be bound together with [adhesives](#) during production and [finished](#) during the installation process.
- Visit Earth 911 <http://earth911.com/> to determine the most responsible way to dispose of the material.

For alignment with LEED Standards

- Regional Materials: At a minimum, use 20% of the combined value of construction and Division 12 (Furniture) materials and products that are manufactured regionally within a radius of 500 miles. Additionally, use a minimum of 10% of the combined value of construction and Division 12 (Furniture) materials and products extracted, harvested or recovered, as well as manufactured, within 500 miles of the project.
- Construction Waste: Recycle and/or salvage a minimum of 50% of nonhazardous construction and demolition debris.
- Rapidly Renewable Resources: At a minimum, use [rapidly renewable](#) construction and Division 12 (Furniture and Furnishings) materials and products for 5% of the total value of all materials and products used in the projected based on cost
- FloorScore certified
- Adhesives & Finishes: Must meet the [volatile organic compound](#) (VOC) requirements of South Coast Air Quality Management District (SCAQMD) Rule 1113 & Rule 1168.

[LEARN](#)[PLAN](#)[EVALUATE](#)[IMPLEMENT](#)[SHARE](#)[MY PROJECTS](#)

Plan

[Start Planning](#)[Sustainable Project Strategies](#)

Start Planning

[Planning to Build Green](#)[Keys to Success](#)[Plan Section Guidance](#)

Keys to Success

Sustainable design, construction, operation, and renovation are best thought of as an integrated process, rather than a collection of things. The process involves new ways of designing, constructing and operating our buildings and facilities. A few keys to success include:

- ✔ **Think about synergies and green elements as early as possible.** Early planning allows you to identify synergies and reduce costs, and makes it easier to budget for the green elements.
- ✔ **Use a systems thinking approach.** Instead of thinking about each strategy in isolation, systems thinking asks you to think about how the strategies interact, how they work together (or against one another) in the whole project, and whether there are unintended consequences. You look first at the project overall, then work toward specific strategies, such as selecting a floor covering or appliance, rather than starting with the details.
- ✔ **Use an integrative design approach.** An integrative approach usually involves a team of relevant professionals and stakeholders - for a small project, this might include the facility manager, engineer, systems furniture vendor, a space planner, an interior designer, representatives of users of the space and owner's representative. When this team works together early in the process to address space requirements, it works! For example: the paint color selected for walls should enhance the [daylighting](#) strategies, the modular furniture can allow light to penetrate the space, and the enclosures for private offices (located near the core of the building) should include enough glass to permit daylight to reach the occupant.
- ✔ **Use green building strategies that are appropriate for the project type, existing conditions and intended use of the space.** The "best" strategies for any project will vary based on the project type, goals, existing conditions, opportunities and constraints. This Plan section helps you identify these strategies for your projects.

Introduction to Integrated Design includes sharing Keys to Success

The [Learn Section](#) contains more information on these concepts.

[LEARN](#)[PLAN](#)[EVALUATE](#)[IMPLEMENT](#)[SHARE](#)[MY PROJECTS](#)

Plan

[Start Planning](#)[Sustainable Project Strategies](#)

Sustainable Project Strategies

Best Practices Applicable to All Project Types

[Materials, Furniture, and Furnishings Replacement](#)[Space Reconfiguration and Renovation Projects](#)[Under 10,000 SF Interiors Gut Rehab Project](#)[Building Systems Upgrades](#)[Sustainable Building Operations and Maintenance Services](#)

Best Practices Applicable to All Project Types

Sustainable design, construction, operation, and renovation are best thought of as an integrated process, rather than a collection of things. The process involves new ways of designing, constructing and operating our buildings and facilities. A few keys to success include:

- ✔ **Think about sustainability goals and "greening" strategies as early as possible.** Early planning allows you to identify synergies among green elements and reduce costs, and makes it easier to budget for the green elements.
- ✔ **Use a systems thinking approach.** Thinking about a strategy in isolation, systems thinking asks you to think about how elements (and how they relate to one another) in the whole project, and whether there are unintended consequences. Systems thinking work toward specific strategies, such as selecting a floor covering or appliance, rather than starting with the details.
- ✔ **Use an integrative design approach.** An integrative approach usually involves a team of relevant professionals and stakeholders - for a small project, this might include the facility manager, engineer, systems furniture vendor, a space planner, an interior designer, representatives of users of the space and owner's representative. When this team works together early in the process to address space requirements, it works! For example: the paint color selected for walls should enhance the [daylighting](#) strategies, the modular furniture can allow light to penetrate the space, and the enclosures for private offices (located near the core of the building) should include enough glass to permit daylight to reach the occupant.
- ✔ **Use green building strategies that are appropriate for the project type, existing conditions and intended use of the space.** The "best" strategies for any project will vary based on the project type, goals, existing conditions, opportunities and constraints. This Plan section helps you identify these strategies for your projects.

Users can click on one of five different types of projects for relevant best practices, resources, and sustainable strategies

The [Learn Section](#) contains more information on these concepts.

[LEARN](#)[PLAN](#)[EVALUATE](#)[MY PROJECTS](#)

Learn

[Home](#)[Sustainability Topics](#)[Regulations and Guidelines](#)[Did You Know](#)[Case Studies](#)

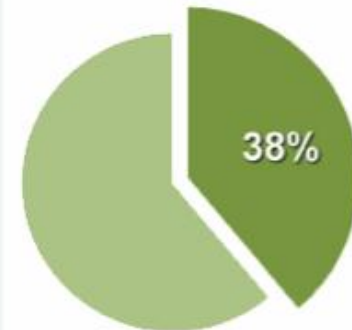
What is Sustainability

Sustainability is best thought of as a process, rather than a thing. US Executive Order 13423 states that sustainability "means to create and maintain conditions, under which humans and nature can exist in productive harmony, that permit fulfilling the social, economic, and other requirements of present and future generations." In order to achieve such conditions, new ways of designing, constructing and operating buildings and facilities must be identified.

[Continue reading "What is Sustainability"](#)

Presents sustainability metrics to inform decision-making & promote learning

Did You Know?



Buildings are one of the heaviest consumers of natural resources and account for a significant portion of the greenhouse gas emissions that affect climate change. In the U.S., buildings account for 38% of all CO2 emissions.

Source: Energy Information Administration (2008). Assumptions to the Annual Energy Outlook.

Word cloud diagrams group sustainable terms

Learn About Sustainability Topics

[Materials & Resources](#)[Energy & Atmosphere](#)[Sustainable Sites](#)



[Home](#)
[LEARN](#)
[PLAN](#)
[EVALUATE](#)
[IMPLEMENT](#)

Topics, regulations, case studies, metrics, are readily available in navigation and sidebar

Learn

[Home](#)
[Sustainability Topics](#)
[Regulations and Guidelines](#)
[Did You Know](#)
[Case Studies](#)

Sustainability Topics

Materials & Resources

In the construction and day-to-day operations of buildings, many materials and resources are used and a great deal of waste is generated. The materials selected for use in a facility and the way they are disposed of impact the environment.

[Continue reading Materials & Resources](#)

Indoor Environmental Quality (IEQ)

Indoor Environmental Quality (IEQ) is most simply defined as the quality of the indoor environment. It does not refer to the air quality alone, but the entire environmental quality of a space, which includes air quality, access to daylight and views, pleasant acoustic conditions, and occupant control over lighting and thermal comfort.

[Continue reading Indoor Environmental Quality \(IEQ\)](#)

Sustainable Sites

Choosing a building's site and managing that site during construction are important considerations for a project's sustainability. Environmentally responsible site selection discourages development of previously undeveloped land; minimizes a building's impact on ecosystems and waterways; encourages regionally appropriate landscaping; rewards green building practices; and reduces stormwater runoff.

Additionally, appropriate site management reduces construction-related pollution. Buildings should choose the environmentally preferred option for site.

[Continue reading Sustainable Sites](#)

Energy & Atmosphere

Buildings and facilities rely on the operation of mechanical systems and electrical systems to maintain a comfortable indoor environmental quality for occupants. Building operations consume approximately 30%

Content is presented at both high and detailed levels for those who want to learn more.

The benefits of sustainable practices are clearly articulated

Did You Know?

People in the U.S. spend about 90% of their time indoors.

Source: Environmental Protection Agency (1987). The Total Exposure Assessment Methodology (TEAM) Study.

Case Study

Health



Good health has both physical and psychological components. Being healthy means the absence of disease and illness, as well as feeling positive about life and work. The workplace can play a role in the health of workers by eliminating risks and creating conditions that support cognitive, emotional, and social well being.



[Home](#)
[LEARN](#)
[PLAN](#)
[EVALUATE](#)
[IMPLEMENT](#)
[SHARE](#)

Case studies and Metrics in sidebar can be aligned to main content

Learn

[Home](#)
[Sustainability Topics](#)
[Regulations and Guidelines](#)
[Did You Know](#)
[Case Studies](#)

Regulations and Guidelines

Laws

Federal Acquisition Regulation (FAR)

The Federal Acquisition Regulation govern how all government contracts are made. Specifically, Subchapter D Part 23 dictates how the sustainability requirements are made. [FAR - Part 23](#)

Important Regulations and Guidelines are described and a link to the source document is provided

ENERGY POLICY ACT OF 2005

The purpose of the ENERGY POLICY ACT OF 2005 is "To ensure jobs for our future with secure, affordable, and reliable energy." [View Act](#)

ENERGY INDEPENDENCE AND SECURITY ACT

The stated purpose of the act is "to move the United States toward greater energy independence and security, to increase the production of clean renewable fuels, to protect consumers, to increase the efficiency of products, buildings, and vehicles, to promote research on and deploy greenhouse gas capture and storage options, and to improve the energy performance of the Federal Government, and for other purposes."

Executive Orders

HIGH PERFORMANCE and SUSTAINABLE BUILDINGS GUIDANCE

The Interagency Sustainability Working Group (ISWG), as a subcommittee of the Steering Committee established by Executive Order (E.O.) 13423, initiated development of the following guidance to assist agencies in meeting the high performance and sustainable buildings goals of E.O. 13423, section 2(f).1 [View Guidance](#)

Did You Know?

The U.S. generated approximately 254 million tons of municipal solid waste (MSW) in 2007. Excluding composting, the amount of MSW recycled increased to 63.3 million tons, an increase of 1.9 million tons from 2006. This is a 3 percent increase in the tons recycled.

Source: US EPA, Municipal Solid Waste in the United States. 2007 Fact and Figures.

Case Study

Spatial Equity



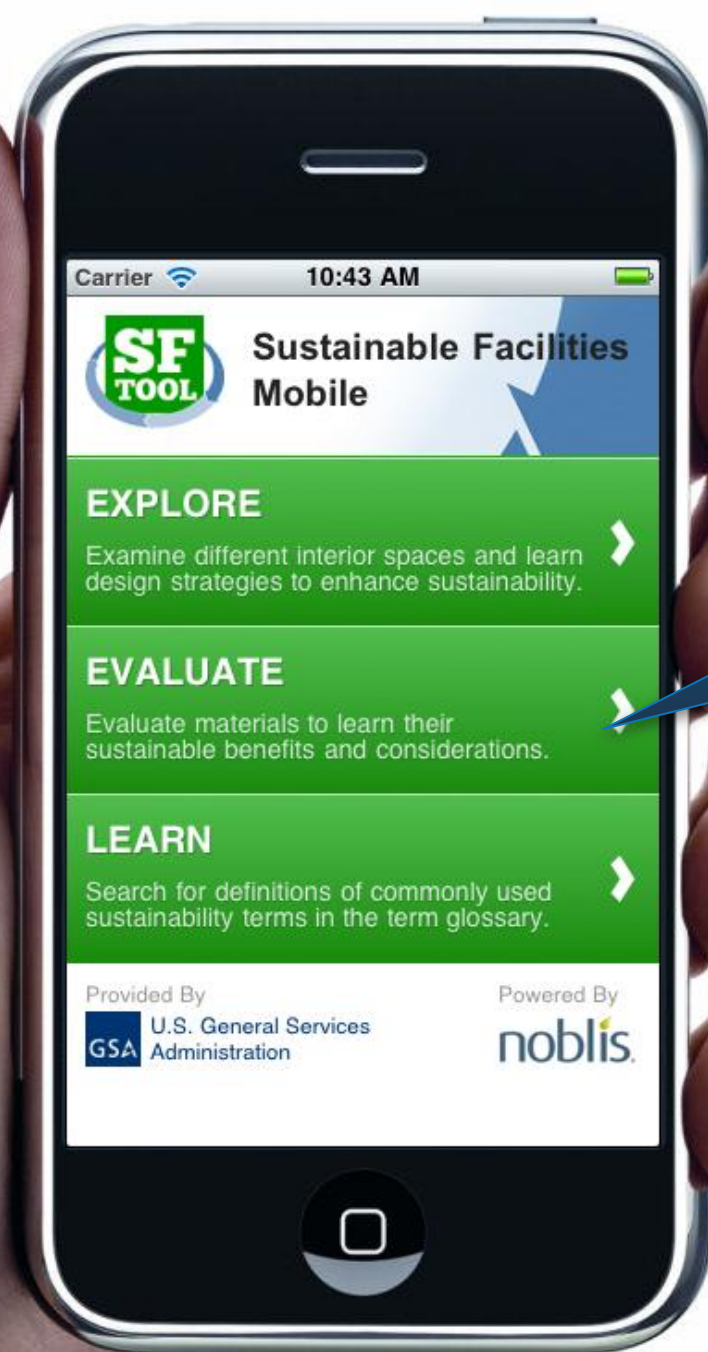
Organizations today are less hierarchical and work is more team based, more mobile, and

GSA is leveraging digital delivery channels to promote sustainability

- Provides decision-making resources optimized for your hand-held device
- Increases public accessibility to SF Tool resources
- Free to all users



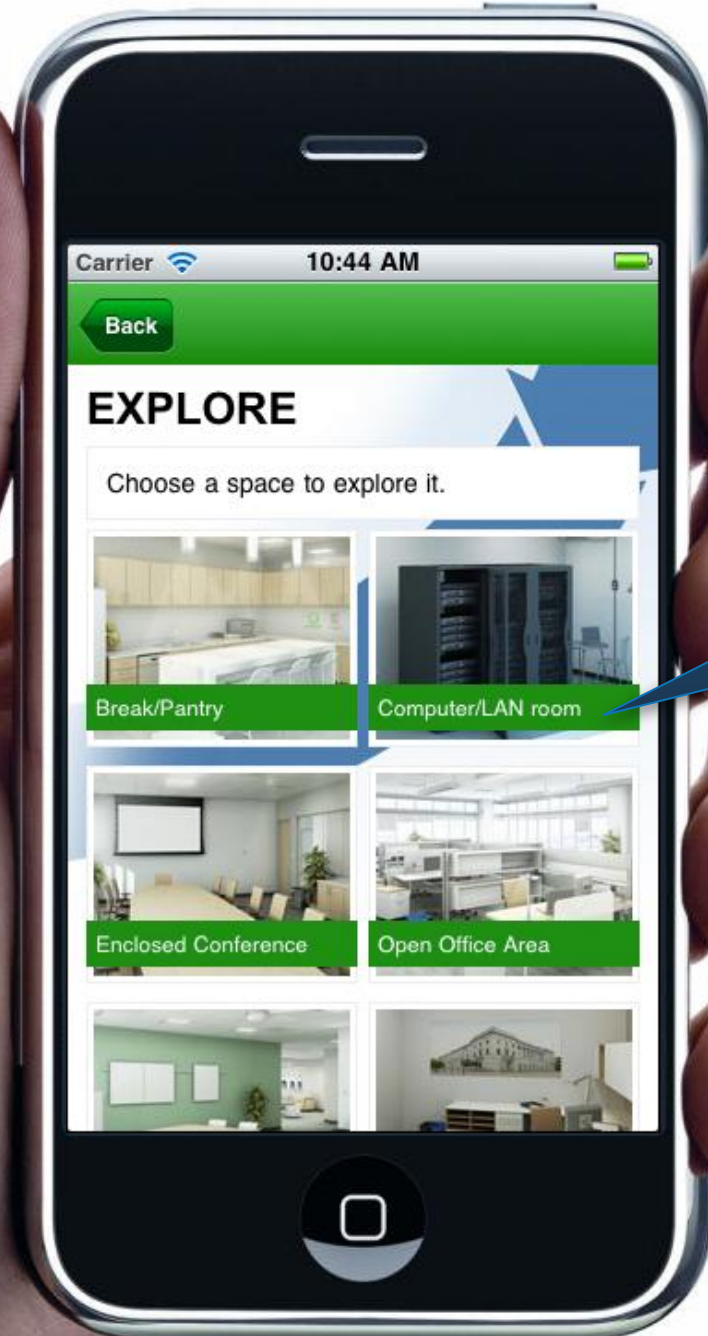
SF Mobile Home



Application interface is optimized for touch-enabled operations, allowing for quick and intuitive navigation

Explore

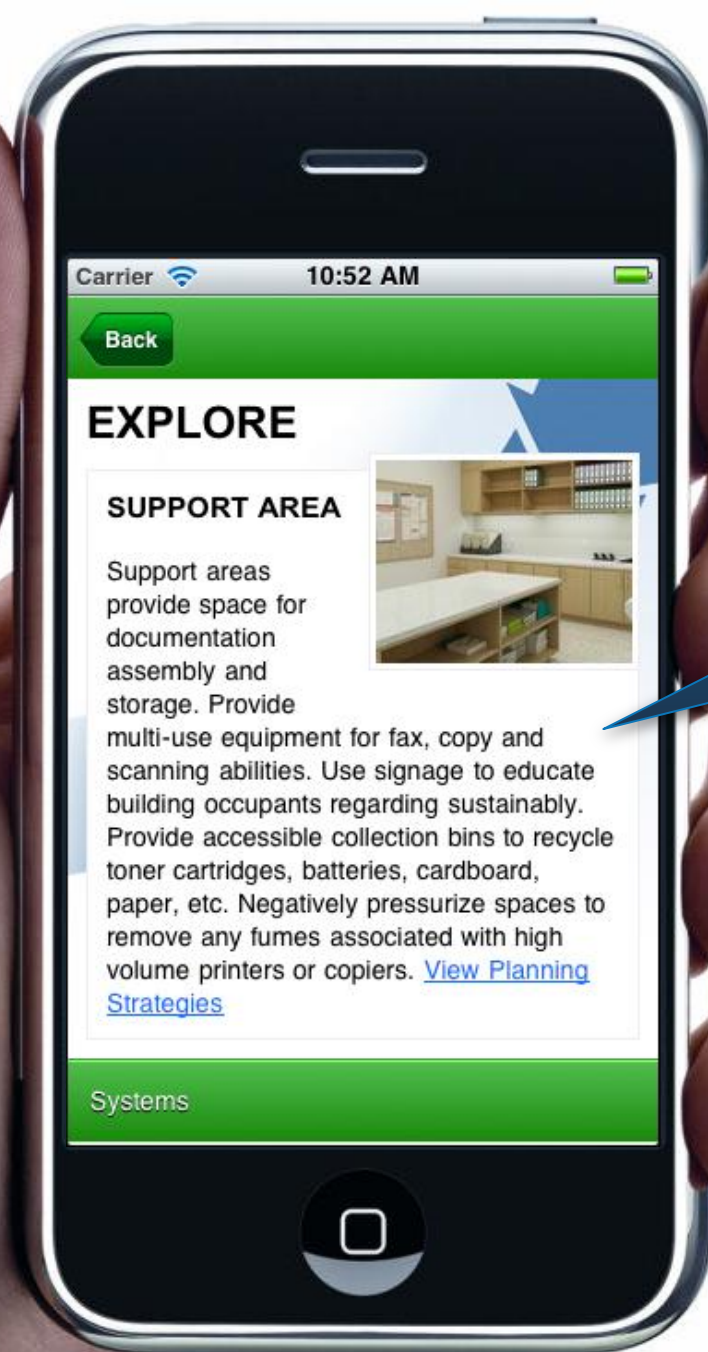
Interior Space Types



Explore up to 10 office space interiors to learn context-specific sustainable strategies

Explore

Sustainable Strategies



Back

EXPLORE

SUPPORT AREA

Support areas provide space for documentation assembly and storage. Provide multi-use equipment for fax, copy and scanning abilities. Use signage to educate building occupants regarding sustainably. Provide accessible collection bins to recycle toner cartridges, batteries, cardboard, paper, etc. Negatively pressurize spaces to remove any fumes associated with high volume printers or copiers. [View Planning Strategies](#)

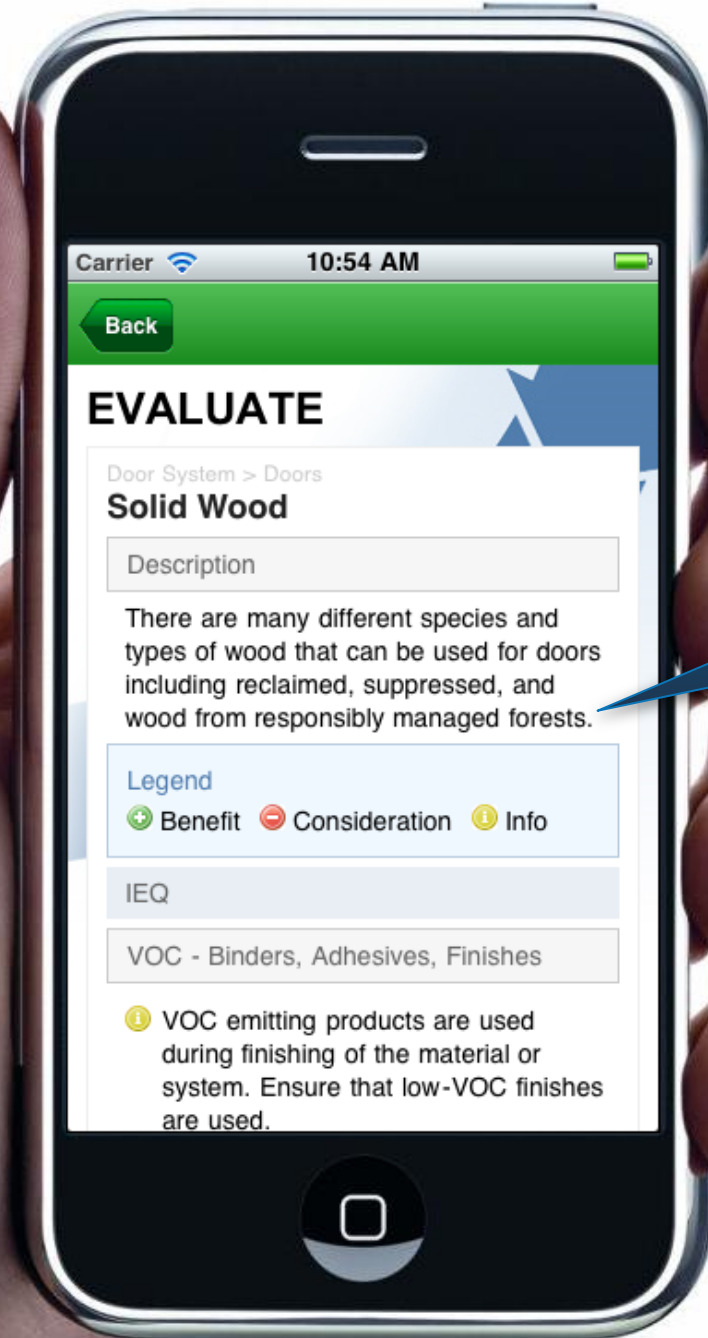


Systems

Access general design guidance and planning strategies for each interior space type

Evaluate

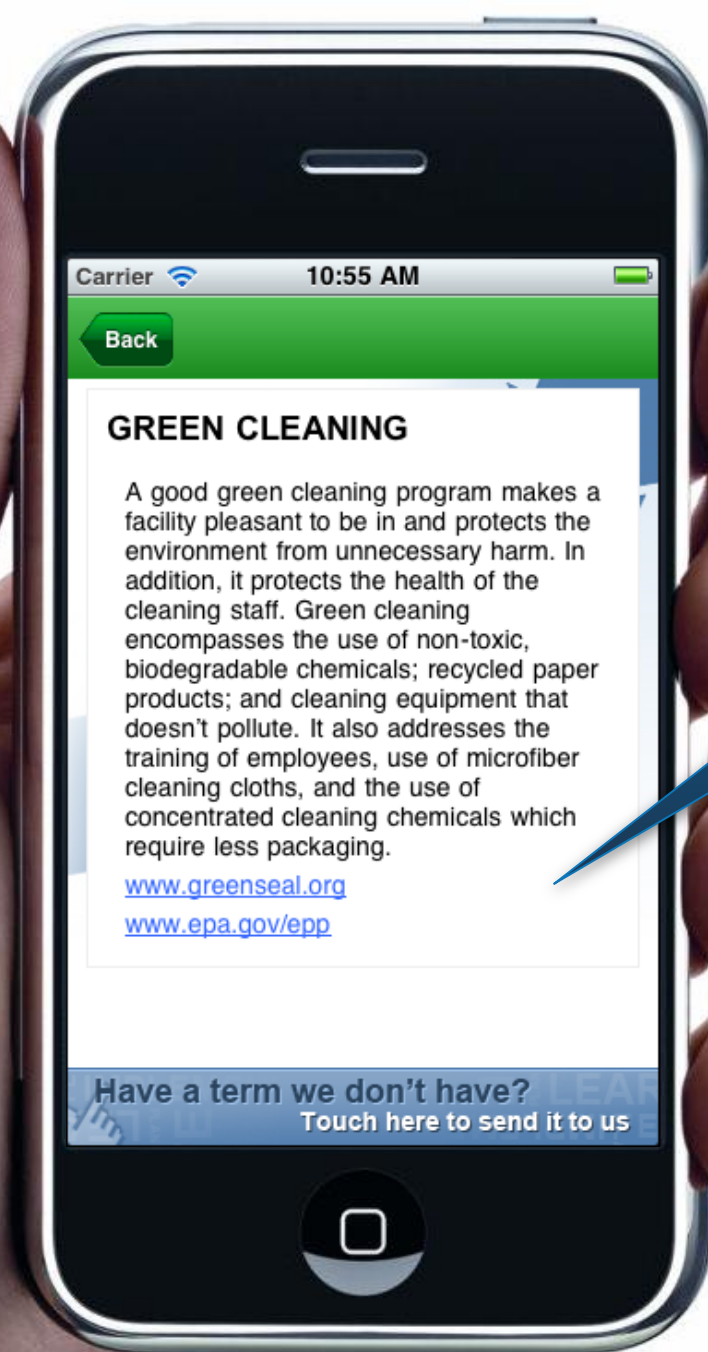
Materials



Learn about IEQ, material content, energy impacts, and cost for each type of material

Learn

Sustainability References



Term definitions
provide reference
links and additional
resources



Sustainable Facilities Tool

Sustainable Facilities Tool: www.sftool.gov

SF Mobile:

Blackberry <http://appworld.blackberry.com/webstore/content/50279?lang=en>

Android <https://market.android.com/details?id=com.phonegap.sfmobile>

Apple AppStore or <http://itunes.com/apps/sfmobile>



Thanks!

For more information on WSL and the Acoustics Tool:

Kevin Kelly, AIA

Senior Architect, GSA Center for Workplace

Kevin.kelly@gsa.gov

For more information on SFTool and the Acoustics tool:

Michael Bloom

Michael.bloom@gsa.gov

For more information on FPDS Procurement tool:

Janise Nichols

Janise.nichols@gsa.gov

