Note: This presentation represents the deliberations of a task group to an independent advisory committee, and as such, may not be consistent with current GSA or other Federal agency policy.

Health and Wellness Task Group Update

JUNE 7, 2017

WHO Definition of Health

The World Health Organization (WHO) defined health in its broader sense in its 1948 constitution as "a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity."

Health & Wellness Task Group

Motion:

Propose evidence-based criteria to integrate health and wellness into all government facilities programs, drawing from approaches including buildings and health rating systems and biophilic design strategies.

Benefits:

Enhance employee health and performance and support agency mission achievement through the adoption of health focused building design and operations strategies

Identify a compelling business case for building-owning or managing agencies to adopt such practices

Guiding Principles Background

New Federal Guiding Principle (GP):

 Occupant Health and Wellness: Promote opportunities for voluntary increased physical movement of building occupants such as making stairwells an option for circulation, active workstations, fitness centers, and bicycle commuter facilities; and support convenient access to healthy dining options, potable water, daylight, plants, and exterior views.

Adds to other relevant GPs:

- Enhance Indoor Environmental Quality: Ventilation and Thermal Controls / Daylighting and Lighting Controls / Indoor Air Quality
- Reduce the Environmental Impact of Materials: Material Content and Performance
- Employ Integrated Design Principles: Integrated Design / Commissioning

Summary of Presentations

Fitwel

- Liz York and Joel Kimmons from CDC presented on Fitwel's origins
- Eleni Reed and Denise Funkhouser shared GSA's experience piloting and using the Fitwel program
- Joanna Frank and Giselle Sebag from the Center for Active Design (CfAD)
 provided a deeper look at the Fitwel scorecard and certification process

WELL Building Standard

- Rachel Gutter from the International WELL Building Institute (IWBI)
 presented the history and mission of the WELL Building Standard
- Susan Chung and Randy Fiser from the American Society for Interior Designers (ASID) shared their experiences implementing WELL at their new Washington DC headquarters

Fitwel Background

CDC, GSA and NYC NYC Department of Health and Mental Hygiene collaboration

Licensed to and operated by the Center for Active Design (CfAD)

Over 600 projects in system. GSA is pursuing Fitwel certification for 22 of its owned, existing buildings in FY 2017, 2 per Region

Fitwel provides 60+ low-cost, high-impact strategies for enhancing building environments to improve occupant health and productivity

All strategies are voluntary— strategies improve community health, reducing morbidity & absenteeism, instill well-being, support social equity, provide healthy food options, and/or increase physical activity

WELL Building Standard Background

The IWBI team includes public health, engineering, and building science experts

Medical researchers, practitioners and scientists were convened to develop building standards, employing a peer review process for research sources serving as a basis for the standards

WELL demands more than good design; it requires data-driven environmental assessments through third party on-site performance verification, with performance reviewed every three years

WELL works with LEED, Green Star, BREEAM, and other globally-utilized rating systems to drive human and environmental sustainability.

Over 350 projects encompassing over 76 million square feet are utilizing WELL

Existing Buildings Crosswalk Diet – Exercise – Smoking Cessation

- Area of Positive Impact
- Related Guiding Principle
- Fitwel
- WELL Building Standard
- DoD Unified Facilities Criteria
 1-200-02 (Dec 2016)

- GBI: Green Globes & Guiding Principle
 Compliance EB Assessment
- USGBC: LEED v.4 EBOM
- ASHRAE 189.1 (2014 / 2017)

Draft cross-walk between		inciples / Rating Systems and Crite		'ellaess Goals with current GSA or other Federal agency policy.)				
	Guiding Principles for Sustainable Federal Duildings (Existing Building U.O.N.)	!fitwel"	WELL BUILDING STANDARD	DoD Unified Facilities Criteria 1-200-02 (Dec 2016)	Grees Beilding Initiative: Grees Glober - EB (U.O.N.) Guiding Principles Complianc Existing Buildings Assessment Program NOTE to Compliance (BUMAIS Exaded 01-000% additional sedates NOTE to expected for CIBE root. Anticipated completion 2011 "MOTE: 2 Compliance Assessment Program to completion 2016 Principles Compliance Assessment Program to comply with the DOI (Unified Principles Compliance Assessment Program to comply with the DOI (Unified Principles Compliance Assessment Program to comply with the DOI (Unified Principles Compliance Assessment Program to comply with the DOI (Unified	LEED v.4 Existing Building: Operations and Maintenance (EBOM) U.O.N.	ASHRAE 189.1 - 2017 / IgCC 2018 (NOTE: As of \$/18/17 additions based on 189.1-2014 plus confident estimate of changes that will be incorporated into 2017 version)	Research Support
as part of Integrated Assessment, Operation and Management of Existing Buildings Integrated Teams Integrated Assessments of Operations and Management Practices Continual Improvement	L Employ Integrated Assessment, Operation, and Management Principles a. Integrated Assessment, Operation, and Management American Principles a. Integrated Assessment, Operation, and Management American Principles of American Pr	Fitwel is a cost-offective, lajb-impact building certification standard that optimizes building exceptant health and producing through targeted producing through targeted producing through targeted and policies. Fitwel has a vision for a health affective where every building is enhanced to support the willbeing of its occeptant and surrounding communities. It is based on the idea of the communities of the support the willbeing of its occeptant and surrounding communities. It is based on the idea in the control of the communities of the product of the communities of the product of the product of the communities of practice to work, regardless of their sites, upe, and location. Operational policies and recommendations are included within each credit for integration into Operations and Management of a building.	Compreheasive and interdisciplinary approaches are necessary to meaningfully address the complex issues of human health and well-being. A narrow focus on select and well-being, A narrow focus on select Many factors of the physical savironment was a significant impact on days red supharable and productivity, but it is often the interactions between multiple environmental factors that matter most. A growing body of interactions between multiple environmental factors that matter most. A growing body of the comprehensive matter of the matter most. A growing body of cities of the matter most. A growing body of retreatment of the matter most in the property of the pro	Chapter 2 Building Design & Construction 2-1.2 Work in Existing Buildings 2-2.2 Employ integrated Design Principles 2-2.5 Integrated Design Principles 2-2.5 Integrated Planning 2-2.1.2 Evaluation of the Site 2-2.1.1 Mergrated Planning 2-2.1.2 Evaluation for Design Travegies 2-2.1.3 Evaluation of the Site 2-2.1.3 Evaluation of the Site 2-2.1.3 Evaluation of the Site 2-2.1.4 Site Integration and Design of the Building Chapter 3 Accessment of Existing Buildings for High Performance and Sustainable Building (IMPSB) Compliance 3.1 Overview 3.2 Employ integrated Assessment, Operation, and Mrhangament Principles Through an integrated process and team, idealify and implement operations and maintenance policies that improve building servicemental performance, protect improve building servicemental performance, protect improve building servicemental performance, protect 5.0 Neurview Projects are not stand alone, initiatives but are part of a comprehencing sectionable installations 5.1 Neurview Projects are not stand alone, initiatives but are part of a comprehencing sectionable installation master plan that defines the holistic vision for planning and development of the installations is to look beyond the	Green Globes - New Construction (NC) 3.1 Project Management 3.1 Integrated Design Process (DP) 4.1 Integrated Design Process (DP) 5.1 Integrated Design Process (DP) 5.1 Integrated Design Process (DP) 5.1 Integrated Design Process 6.1 Integrated Design Pro	IEED v8. EDI-CI. New Construction (NC) Pillot Credit 100: Integrative Process for Neath Promotion (New Countraction?) Promotion (New Countraction?) A construction of the Countraction of the Impact that project design and countraction has on health and well-beining. An adjust of the Integration of the Countraction of the Countraction of the Countraction of the Countraction of the Impact that project design and countraction has on health and well-beining. An adjust the Countraction of the Countraction of the Impact that project design and countraction has on the Countraction of the Countraction o	ASHIAZENCE/ESUSSED 1831 contains a number of building and system design greater remarks in Section 8, Indoor Environmental Quality, where are intended to meet the goal of the properties of the section of the section reads are follows: "0.18 Soops. This section specifies requirements for indoor eavironmental quality, including indoor sit quality, enricommental tobsecto mode costrol, ovardoor are delivery countries of the section of the section specifies requirements for indoor eavironmental public, including indoor sit quality, enricommental tobsecto mode costrol, ovardoor are delivery socialistic control (injuling quality, daylighting, and low-smitting materials." Section 10 of the standard, Construction and Phase for Operation, has additional requirements to section 10 of the standard construction and Phase for Operation, has additional requirements the constructed building and to support good indoor environmental quality in the occupied building over time. Informative Appendix F: Integrated Design	

Replace with Checklist for Simplification & Usability

Green Building Advisory Co	mmittee, Health & Wellness Task Group			
DRAFT Checklist for Existing	g Buildings			
(Note: this document repres	ents the deliberations of a task group to an independ	ent advisory committee, and as such, may not be	consiste	ent with current GSA or other Federal agency policy.)
Date: June 1, 2017				
Areas for Positive Impact		Guiding Principles for Sustainable Federal Buildings (Existing Building U.O.N.)	~	Applicable Guidelines, Standards, and Rating Systems
General Health & Wellness	Integrated Team Approach for Assessment, Operation and Management of Existing Buildings.	Employ Integrated Assessment, Operation, and Management Principles		Fitwel: No specific requirement. Operational policies & recommendations included in each credit.
		a. Integrated Assessment, Operation, and Management		WELL Building Standard: Mind Feature: Precondition 85 Integrative Design
				DoD Unified Facilities Criteria 1-200-02 (Dec 2016): Chapter 2 Building Design & Construction 2-2 Employ Integrated Design Principles Chapter 3 Assessment of Existing Buildings for High Performance and Sustainable Building (HPSB) Compliance 3.2 Employ Integrated Assessment, Operation, and Management Principles

- Area for Positive Impact
- Means for Achieving Potential Outcome
- Guiding Principle for Sustainable Federal Building (EB)
- Applicable Guidelines, Standards and Rating Systems

Diet – Potable Water – GP Occupant Health

Fitwel
9 Water Supply
10 Cafeteria and Prepared Food Retail & 11 Vending Machines and Snack Bars
WELL Building Standard: Nourishment Feature
30 Fundamental Water Quality (Precondition)
37 Drinking Water Promotion (Optimization)
DoD Unified Facilities Criteria 1-200-02 (Dec 2016)
Chapter 3 Employ Integrated Assessment, Operation, and Management Principles
3-5.4 Occupant Health and Wellness: Convenient Access to Potable Water
Green Globes - EB
4.0 Emissions, Effluents, & Pollutant Controls: 4.10 Is the drinking water safe?
GBI Addressing 2-5.4 and 2-2.1.1 Access to Potable Water from the DoD UFC 1-200-
02 in revised Guiding Principles Compliance Assessment Program.
LEED v.4: EBOM/NC
Pilot Credit 105: Lead Risk Reduction
ASHRAE/ICC/IES/USGBC 189.1
6. Water Use Efficiency: limits on use of potable water for irrigation and in HVAC

systems. Requirement for water bottle filling stations for half of all drinking fountains.

(2017/Addendum 2014)

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H & W Concepts in Leased Settings

	Leasing Setting/ User						
H & W Concept	Model Commercial Leasing Provisions (GBAC Task Group)	Tower Companies (uses LEED-CI and EBOM v3)	<u>Jamestown</u> (encourages Energy Star + LEED)	GSA Lease Language (aligns w/GPs for leases)			
Integrated H&W	None	None	None	None			
Healthy Dining	None	None	None	None			
Potable Water	None	None	None	None			
Stairwells	None	None	None	None			
Active Workstations	None	None	None	None			
Fitness Access	None	None	None	None			
Bike Facilities	Yes	Indirect	Yes	None			
Transit/Walkability	Yes	Yes	Yes	Yes			
Smoking Reduction	None	Yes	Yes	Yes			
Daylight	Yes	Yes	Yes	Indirect			
Plants	None	None	None	None			
Views	None	Yes	Yes	None			

Note: Pilot and Innovation credits were not included

Possible Next Steps

- •Review model leasing provisions to see what is directly or indirectly included in leasing language regarding Health & Wellness attributes.
- •Transform the Checklist into more of a design guidance/reference document, which can link to other more detailed resources or incorporated in SFTool.
- •Clarify which systems offer third party verification or certification as it may be a requirement for the user.
- Evaluation of any additional guidelines, standards, or rating systems that include relevant criteria to support compliance with the Health & Wellness GP requirements that should be added into the listing.
- Evaluation of cost that is associated with recommendations that are included within the Checklist guidance tool.

Resources

- https://fitwel.org/system
- https://www.wellcertified.com/en
- <u>https://www.buildinggreen.com/feature/programming-buildings-health-well-fitwel-and-beyond</u>
- <u>https://www.thegbi.org</u>
- http://www.usgbc.org
- http://www.wbdg.org/FFC/DOD/UFC/ufc 1 200 02 2016.pdf
- <u>https://www.ashrae.org/standards-research--technology/standards--guidelines</u>
- <u>https://energy.gov/eere/femp/downloads/2016-guiding-principles-sustainable-federal-buildings-updates-crosswalks</u>

Discussion Questions

- 1. Is the Task Group generally on track to produce recommendations and resources of use to Federal agencies?
- 2. What do you think should be included in the business case for health and wellness recommendations?
- 3. What other resources, standards, organizations, etc. should the Task Group be tapping in support of its work?