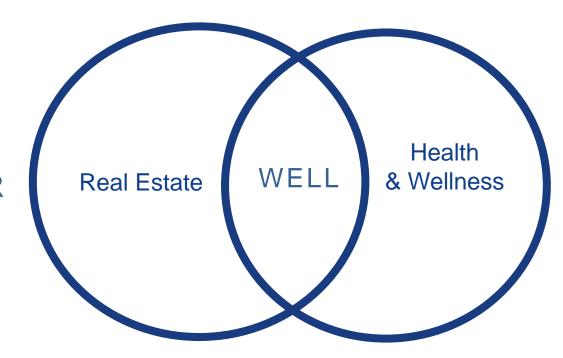




WELLNESS
IS THE NEXT
TRILLION DOLLAR
INDUSTRY









It will literally change the way we live and work

FORMER PRESIDENT BILL CLINTON ON THE WELL BUILDING STANDARD

Copyright© 2015 by International WELL Building Institute PBC. All rights reserved.

THE WALL STREET JOURNAL.

Home World U.S. Politics Economy Business Tech Markets Opinion Arts Life Real Estate

BUSINESS | MANAGEMENT

Companies Ponder a Rating of Workers' Health

IBM, PepsiCo and J&J are among those weighing how to report, measure the health of their workforce

Companies with high performing health program for employees outperformed the Standard & Poor's Index by as much as 16% a year.

Journal of Occupational and Environmental Medicine





Health, Wellbeing & Productivity in Offices

The next chapter for green building

Design for Healthy Behaviors is ranked #1 as both **most transformative** + fastest-moving sub-trend of the Health and Well-Being macro-trend.

- ASID Industry Outlook, 2015







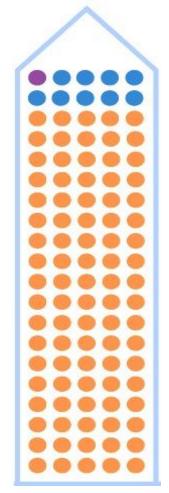






of employees admitted that their attitude about work is adversely affected by the quality of their workplace environment.





SMART BUSINESS

Energy | 1% Annual Cost

Rent | Operations: 9% Annual Cost

Salary | Benefits: 90% Annual Cost

¹Knoll Workplace Research "What's Good for People, Moving from Wellness to Well-Being", Kate Lister 2014

²Studies include those conducted by organizations including Harvard Business Review, World Economic Forum and the American Journal of Health Promotion Image courtesy of World Green Building Counsel Report "Health, Wellbeing & Productivity in Offices"

SMART CHANGES AHEAD

50% of U.S. employers with 50 or more employees, or 3/4 of the workforce, offer wellness promotion initiatives.¹

99% of employers plan to to offer health improvement and wellness programs in the next 3-5 years.²

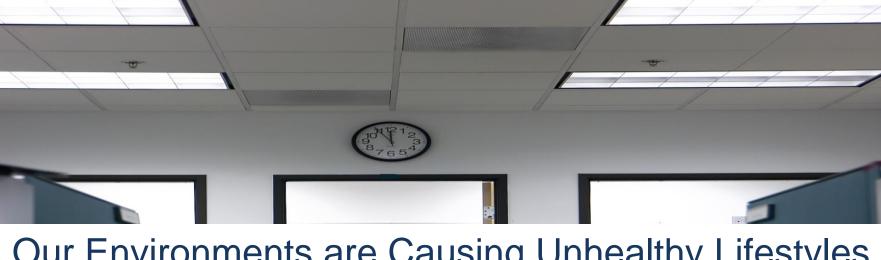


WELL Certified City District

Project Location: Tampa City, FL into a 40-acre WELL City

Preliminary numbers indicate very healthy investment returns:

- 5-35% premium on wellness-branded, single-family homes
- 7-10% premium for wellness rentals
- 15-30% average daily rate premium for wellness-branded hotels.
- Examiner.com



Our Environments are Causing Unhealthy Lifestyles and Low Productivity





WELL is like a

NUTRITION LABEL

for your building, providing transparency on the quality of our built environment.

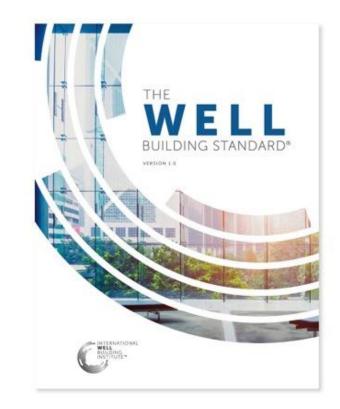




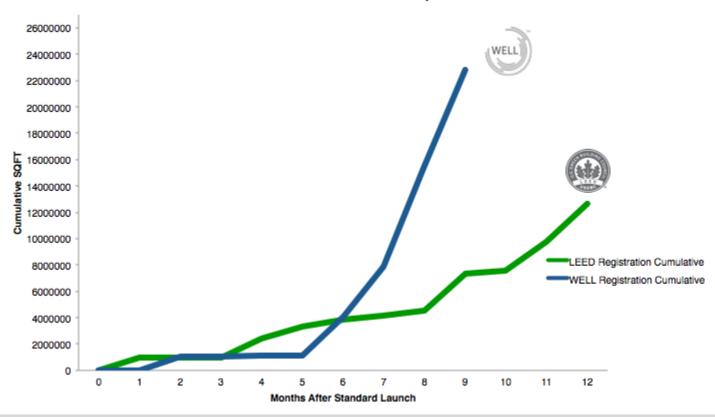


 Provides a model for design and construction to integrate human health features in the built environment

 Is a performance-based system to measure impact of built environment on human health

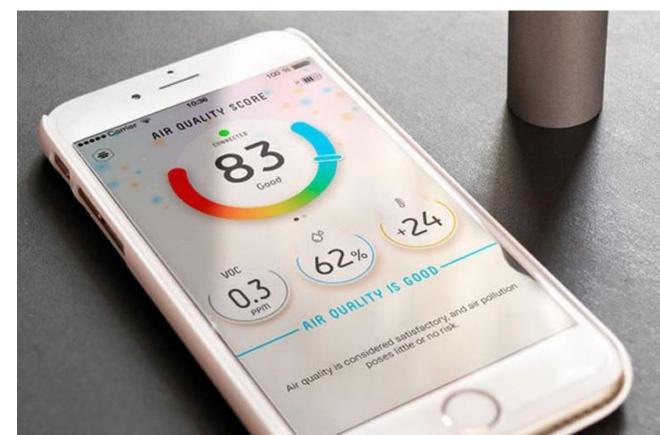


LEED vs WELL Growth Comparison



"Era Of The City" - Rapid Urbanization Estimates predict an increase in the urban population 3.6 billion 2050 2011

OCCUPANT TRANSPARENCY





Indoor health begins here

Access to Mayo Clinic researchers and expert infrastructure



DELOS

INNOVATE WELL



- Access to clinical research units, investigators and research staff from Mayo Clinic
- Consumer visibility: 50 million unique visitors per month to Mayo website
- Exclusively human-centered research approach
- Multidisciplinary, multi-institutional collaboration taps the best minds from science, medicine, technology, industry and research



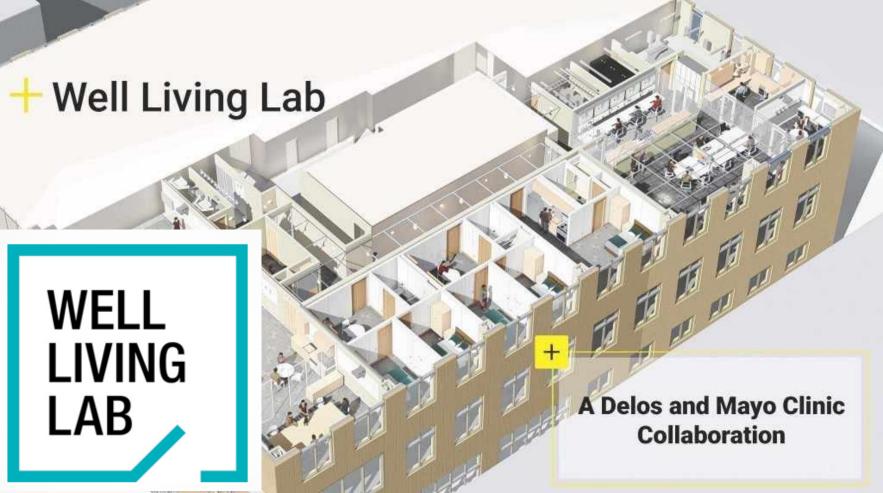
+ What is the Well Living Lab?

The first research center designed to:

Validate the real-world impact of indoor environments on human health and well-being

Generate evidencebased information that
can be used in
practical ways to
create healthier indoor
spaces







SHARE











WHY THE MAYO CLINIC MODELED ITS NEW LAB ON A STUFFY OFFICE



This looks like a normal office building. But it's actually filled with hidden sensors. © WELL LIVING LAB



Why individuals and organizations care

\$2.9 trillion current U.S. health care economy

- Drug spending—both for generic and specialty drugs will be a driving factor
- Prevention and healthy lifestyles will be key to bending the cost curve

86%

of health care costs are due to chronic conditions \$225.8 billion estimated cost of productivity loss from personal and family health problems³

In 2012, the United States spent billions to treat chronic diseases⁴:

\$243 billion circulatory

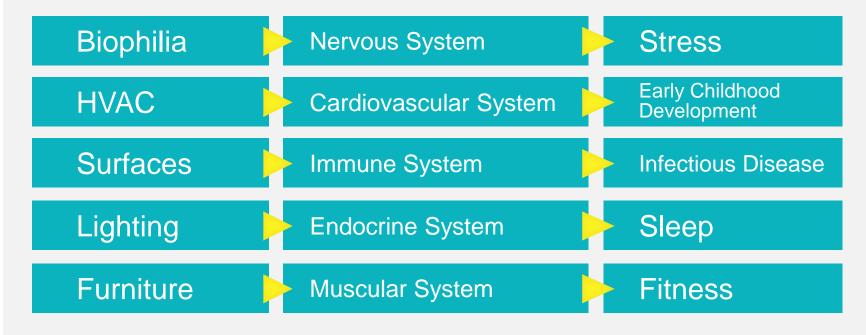
\$188 billion musculoskeletal

\$158 billion respiratory

\$139 billion endocrine



Buildings (and everything in them) can affect our health



CONFIDENTIAL

+ State-of-the-art sensors

Environmental

Air Quality

-Particulate matter

-Gases (e.g. CO, NO_{x_i} VOCs)

Temperature (radiant and ambient)

Humidity

Light, incl. spectral power density

Sound

Commercial, reference grade, and experimental sensors

Wearables

Heart rate

Heart rate variability

Galvanic skin response

Motion

Skin temperature

Near-body temperature

Respiration

Posture sensors

Embedded

Sleep monitoring

Chair and seating embedded sensors

Desk elevation & standing desk usage sensors

Pressure sensors

Fabric-based sensors

Electronics and applianceembedded sensors

Imaging

HD video

Facial recognition

Emotional state detection

Thermal imaging

CONFIDENTIAL

+ Control and monitor



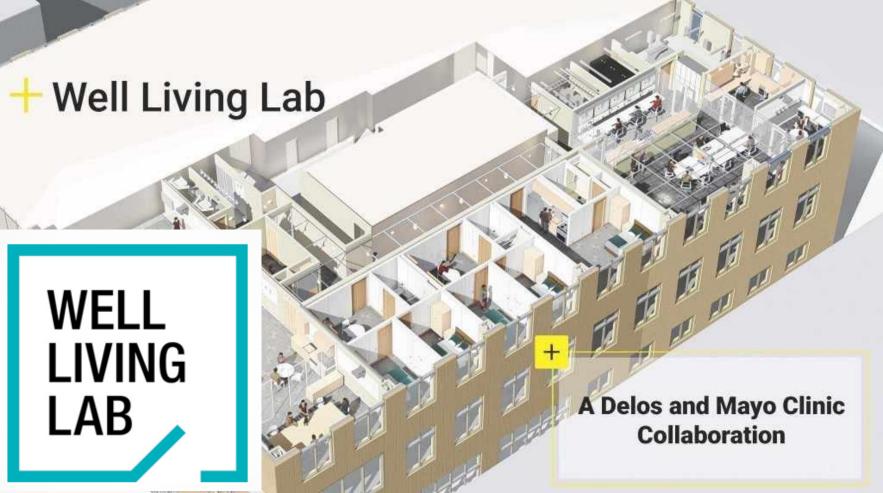
Control and monitor what's happening in the onsite Lab space—as well as offsite in real-world environments

Sophisticated data collection and analytics platform



+ ...is only the start of something much bigger















WHY THE MAYO CLINIC MODELED ITS NEW LAB ON A STUFFY OFFICE



This looks like a normal office building. But it's actually filled with hidden sensors. © WELL LIVING LAB



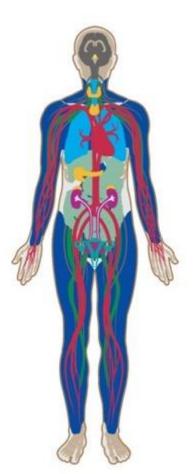


Seven Concepts



Body Systems Applied to WELL Features

A simple way to express the built environment's complex impact on the human body



Cardiovascular

Digestive

Endocrine

Immune

Integumentary

Muscular

Nervous

Reproductive

Respiratory

Skeleta

Urinary

air

Create optimal indoor air quality to support the health and well-being of building occupants.

Copyright© 2015 by International WELL I

material selection · ventilation · filtration · moisture control · maintenance & operations · source of concern protection · construction processes

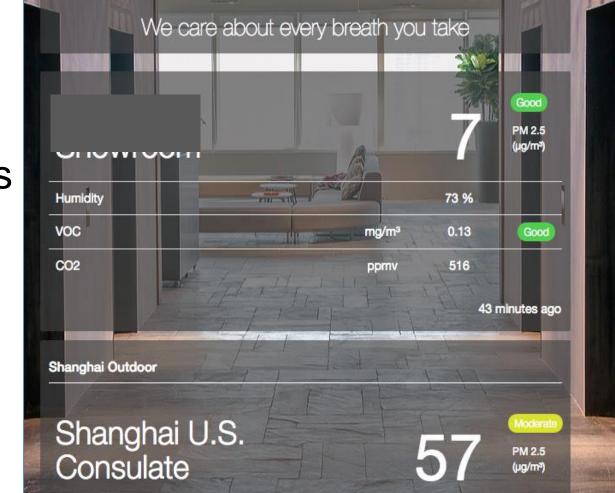
Productivity improvements of **8-11**% are not uncommon as a result of better air quality.

- World Green Building Council, 20151

Concentrations of some pollutant indicators can be 2 to 5 times higher indoors compared to outdoors.

- Environmental Protection Agency, 2012²

WELL Projects Demonstrate Quality



water

Promote safe and clean water through proper filtration and other methods, and require the appropriate quality of water for various uses.

performance testing · treatment · maintenance δ operations · hydration promotion

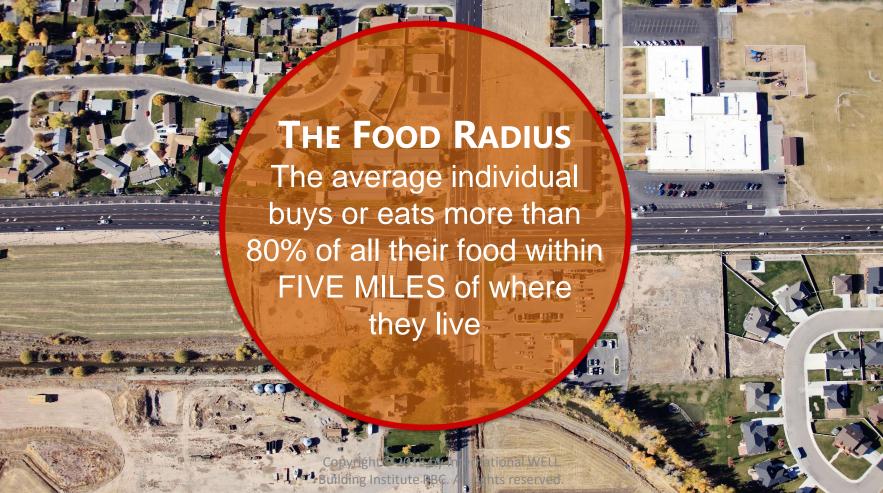


nourishment

Require the availability of fresh, wholesome foods, limit unhealthy ingredients and encourage better eating habits and food culture.

healthy portions · mindful eating · food production access to healthy foods · food preparation allergies & alternatives · transparency environmental cues & influencers



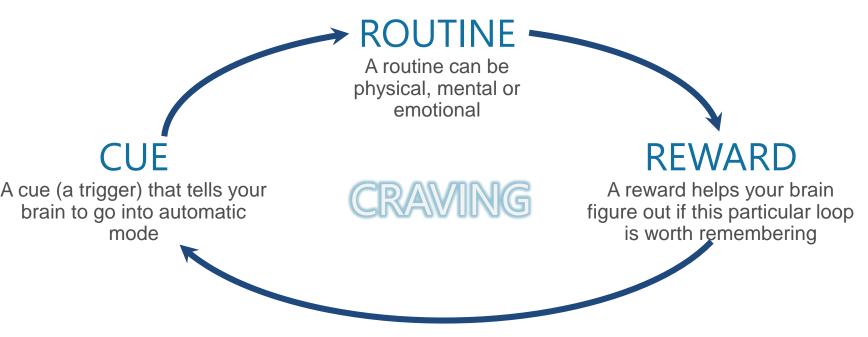


If the Candy Dish is 6 Feet Away, you Eat 1/2 as Much



THE HABIT LOOP

Habits Are Triggered by Environmental Cues



The average size of an American dinner plate has increased almost 23% since 1900.1 By using smaller plates, forks and spoons, we can eat HUNDREDS FEWER CALORIES at meals.2 **Today** 1900

Eating unhealthily is linked with a 66% increased risk of loss of productivity.1

Adults with the greatest knowledge of nutrition are 25% more likely to eat a healthy diet.²

Greater fruit and vegetable intake is associated with a 27% lower odds of depression.³

Population Health Management, Vol. 17, 2014.

The association between fruit and vegetable concumption and mental health disorders, evidence from five waves of a national survey of Canadians, McMartin, SE, PN, Jacka and Colman, LT-4, LL. Preventative Medicine, 2013, Vol.

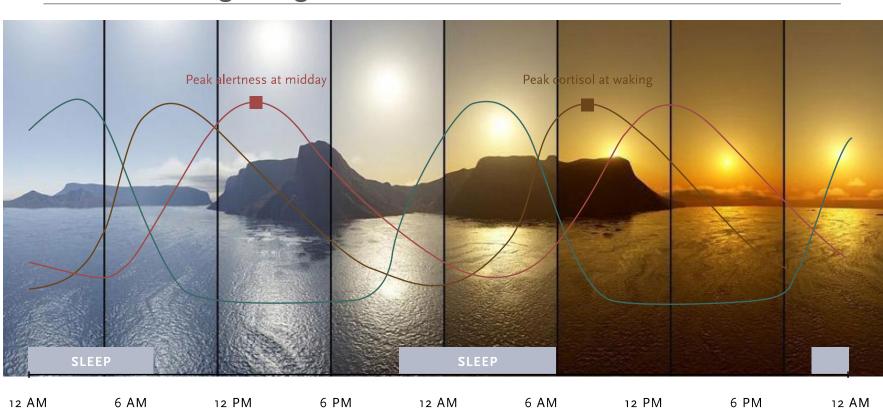
light

Provide illumination guidelines to minimize disruption to the body's circadian system, enhance productivity and provide appropriate visual acuity. Require specialized lighting systems designed to increase alertness, enhance occupant experience and promote sleep.

circadian design · daylighting · glare control · color quality · activity-based lighting levels · visual acuity



Circadian Lighting Emulates the Natural Environment



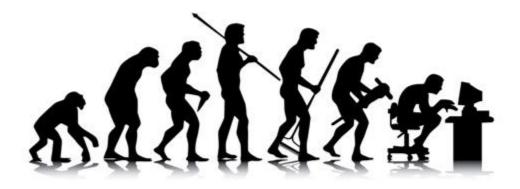
fitness

Allow for the seamless integration of exercise and fitness into everyday life by providing the physical features and components to support an active and healthy lifestyle.

exterior active design · interior active design · activity-based working · physical activity spaces · awareness and habits · physical activity programs



Our environment is changing how we live.



Physical inactivity is the 4th leading risk factor for mortality.

- World Health Organization

What happens to your body when you sit for a prolonged period of time?

- Calorie burning drops to less than 1 per minute.¹
- Cardiovascular, endocrine, digestive, reproductive, respiratory, muscular, skeletal and nervous systems are negatively affected.²
- Prolonged sitting disturbs mood, energy levels and productivity.³

Standing based of ce ork sho's encouraging signs of attenuating ost randial glycaemic e cursion. Buckley, 2, et al. 2, s.l. Occupational and Environmental Medicine, February 2014, Vol. 75, pp. 109-11. http://www.ncbi.nlm.nih.gov/pubmed/24297826. 10.1136/ cemed-2013-101823.
WBI Fitness Wellography, Elements of Fitness: Physical Inactivity



³ Reducing Occupational Sitting Time and Improving Worker Health: The Take-a-Stand Project. 2011. Pronk. N. et al. s.f.: Preventing Chronic Disease, 2012, Vol. 9. http://www.cdc.gov/pcd/issues/2012/11_0323.htm. 110323.

comfort

Establish requirements to create

a distraction-free, productive and comfortable indoor environment.



ergonomic · acoustics · thermal olfactory - accessibility

mind

Require design, technology and treatment strategies to provide a physical environment that optimizes cognitive and emotional health.

stakeholder engagement · transparency · wellness awareness & protocols · connection to nature · adaptable spaces · altruism



BIOPHILIA

After 40-second microbreak, subjects who see green roofs, instead of concrete roofs, demonstrate higher concentration levels.

6% increase in concentration levels for those who saw the green roof.

8% drop in concentration levels for those who saw the concrete roof.





Adaptable spaces give individuals control over their environments, reducing stress and positively impacting job satisfaction and group cohesion.¹

After just four weeks of using sit-stand desks, subjects report feeling more comfortable, energized, healthier, happier, less stressed and more focused and productive.²

Both private and open areas should be available and comfortable. Private spaces accommodate confidentiality, while open areas facilitate collaboration.³

³Effects of Control Over Office Workspace on Perceptions of the Work Environment and Work Outcomes Lee, SY and Brand, JL. 3, 2005, Journal of Environmental Psychology, Vol. 25, pp. 323-333.

⁴ Reducing Occupational Sitting Time and Improving Worker Health: The Take-a-Stand Project, 2011. Pronk, N. et al. s.f.: Preventing Chronic Disease, 2012, Vol. 9.

http://www.cdc.gov/pcd/issues/2012/11_0323.htm 110323.

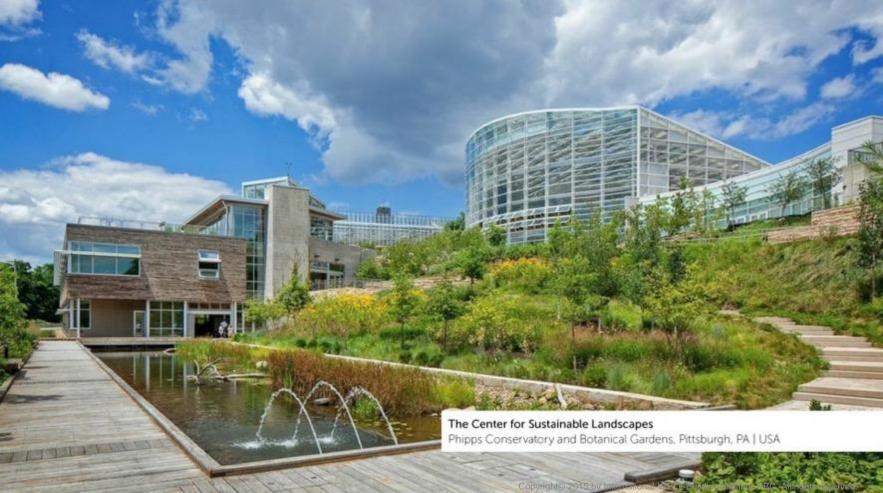
³ Fayard, A and Weeks, J. Who moved my cube? Harvard Business Review. [Online] July 2011. https://hbr.org/2011/07/who-moved-my-cube.















Announcing the First WELL Certified City District

At the 2015 Clinton Global Initiative (CGI) Annual Meeting, Delos, the pioneer of Wellness Real Estate™, and Strategic Property Partners announced a partnership to create the world's first WELL Certified™ city district in Tampa, Florida



WELL CERTIFICATION PROCESS





Working together to optimize building performance for *human health* and our *environment*.

The WELL Differentiator

Data Driven Environmental Assessments Through Onsite

Performance Verification

IWBI + GBCI





Ensuring that certification for **WELL** and **LEED** works seamlessly.

Project Typologies for WELL v1.0

The current WELL v1.0 is optimized for commercial and institutional office buildings. For WELL v1.0, there are three project typologies:



1) New and Existing Buildings



2) New and Existing Interiors



3) Core and Shell

Pilot Programs

IWBI has developed pilot versions of the standard to test and refine how WELL can be applied to new building sectors. IWBI currently offers pilot programs for:

- Retail
- Multifamily
- Residential
- Education
- Restaurant
- Commercial kitchen
- Neighborhood

THE WELL DIFFERENTIATOR

Data Driven Environmental Assessments Through Onsite

PERFORMANCE VERIFICATION

BRINGING WELL TO PRACTICE

industry experts on healthy environments

WELL ACCREDITED PROFESSIONAL (WELL AP)



WELL ACCREDITED PROFESSIONAL (WELL AP)

