Catalystpartners

## WELL +

## Economic Development

### Economic Development

"A process of creating and utilizing physical, human, financial, and social assets to generate improved and broadly shared economic well-being and quality of life for a community or region."

-Karl Seidman

## THE WELL BUILDING STANDARD

### BUSINESS CASE

INSTITU

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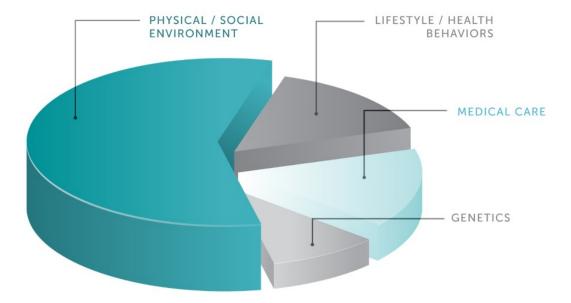
### WELL IS FOR PEOPLE

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#### THE BUILDINGS WHERE WE LIVE, WORK, LEARN AND RELAX PROFOUNDLY IMPACT OUR HEALTH, WELL-BEING AND PRODUCTIVITY.

#### WHAT DETERMINES THE STATE OF HEALTH?



#### A COMPREHENSIVE APPROACH TO WELL-BEING

The WELL Building Standard is made up of features that address ten concepts:





### 15,000 liters of air breathed a day



Source: McDowell J. Encyclopedia of Human Body Systems. Greenwood; 2011

### っ AIR

Experience high-level indoor air quality across a building's lifetime.

- Performance metrics
- Ventilation and operable windows
- Filtration
- Construction pollution management

- Source of concern protection
- Smoking ban
- Maintenance and operations
- Microbe and mold control

## LEAD PFAS LEGIONELLA

## A body water loss of only 1%-2%

can impair cognitive performance and contribute to health issues like fatigue, mood swings, and headaches.

## WATER

Access to high quality drinking water and water management.

- Performance metrics
- Legionella control
- Treatment

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- Drinking water promotion
- Moisture management
- Handwashing

## 46 minutes

#### more sleep for workers in offices near windows.

SOURCE: Chueng I. (2013) Impact of workplace daylight exposure on sleep, physical activity, and quality of life. American Academy of Sleep Medicine 36



Benefit from daylight and lighting systems designed to increase alertness, enhance experience and promote sleep.

- Occupant controls
- Visual acuity
- Circadian lighting design
- Glare control

- Daylighting access
- Visual balance
- Light quality
- Light exposure and education



## in staff performance when offices are too hot and

if too cold.

SOURCE: Lan L. Wargocki P. Wyon DP. Lian Z. (2011) Effects of thermal discomfort in an office on perceived air quality, SB symptoms, physiological responses, and human performance. Indoor Air 21:5, pp 376-90



## THERMAL COMFORT

Maximize your productivity through improved HVAC system design and by meeting thermal preferences.

- Performance metrics
- Thermal zoning
- Individual controls

- Radiant thermal comfort
- Ongoing monitoring
- Humidity control

# 66%

in staff performance as a result of distracting noise.

SOURCE: Banbury SP. and Berry DC. (1998) Disruption of office-related tasks by speech and office noise. British Journal of Psychology 89:3, pp 499–517

## SOUND

Improve your experience with optimal acoustical comfort parameters.

Performance metrics

Absorption

- Mapping
- Barriers

Masking



#### Estimated Annual Economic Burdon of Turnover

for a 100 employee business in Michigan losing 12 employees per year

SOURCE: The Right Place; https://www.rightplace.org/assets/img/uploads/resources/Cost-of-Employee-Turnover.pd

## \$153 Billion

Estimated economic burden of chronic health conditions for US employers.

SOURCE: Gallup; https://news.gallup.com/poll/150026/unhealthy-workers-absenteeism-costs-153-billion.asp

# The business case for the WELL Building Standard