

**The WELL Standard** 



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## Cundall

#### **About Cundall**





21 OFFICES GLOBALLY



750+







#### **Cundall services**

#### CUNDALL





































To find out more about our services visit: www.cundall.com

#### One Planet Company

#### CUNDALL

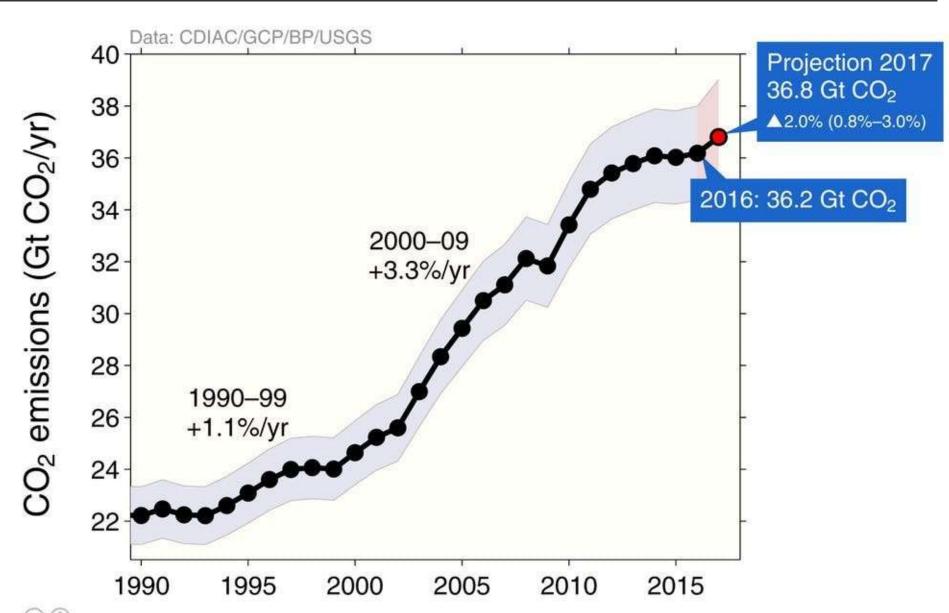
## We practise what we preach

- World's first consultancy to be formally endorsed as a One Planet Company by sustainability charity BioRegional
- Applied the 10
   One Planet Principles to guide our commitment, actions and services
- Cundall Sustainability Roadmap available on www.cundall.com





<b>⊕ ₩ ₩</b>			
Health and happiness	Encouraging active, sociable, meaningful lives to promote good health and well being		
Equity and local economy	Creating bioregional economies that support equity and diverse local employment and international fair trade		
Culture and community	Respecting and reviving local identity, wisdom and culture; encouraging the involvement of people in shaping their community and creating a new culture of sustainability		
Land use and wildlife	Protecting and restaring biodiversity and creating new natural habitats through good land use and integration into the built environment		
Sustainable water	Using water efficiently in buildings, farming and manufacturing. Designing to avoid local issues such as flooding , drought and water course pollution		
Local and sustainable food	Supporting sustainable and humane farming, promoting access to healthy, low impact, lacal, seasonal and arganic diets and reducing food waste		
Sustainable materials	Using sustainable and healthy products, such as those with low embodied energy, sourced locally, mode from renewable or waste resources		
Sustainable transport	Reducing the need to travel, and encouraging law and zero carbon modes of transport to reduce emissions		
Zero waste	Reducing waste, reusing where possible, and ultimately sending zero waste to landfill		
Zero carbon	Making buildings energy efficient and delivering all energy with renewable technologies		





# Health & Wellbeing 2<sup>nd</sup> Wave of Sustainability



Healthy Buildings

Healthy Planet

90%

of our lives are spent indoors and it has a lasting impact on our *health*..

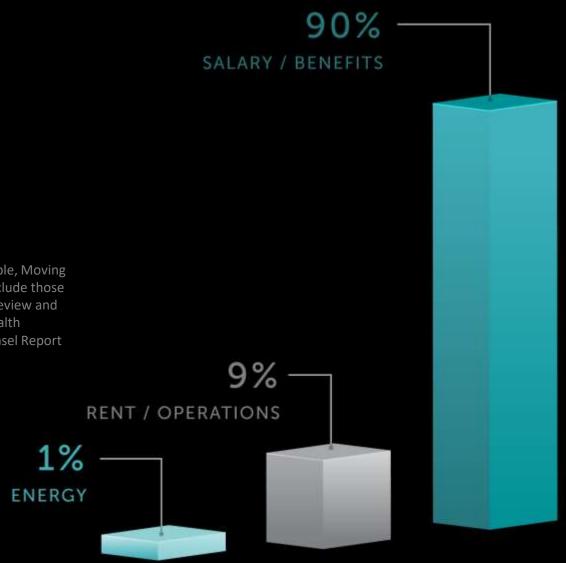




#### Biggest cost is pe

# INVEST IN FOR RETURNINVESTMEN

Source: Knoll Workplace Research "What's Good for People, Moving from Wellnes to Well Being", Kate Lister 2004 Studies include those conducted by organizations including Harvard Business Review and World Economic Forum and the American Journeal of Health Promotion Image courtesy of World Green Building Counsel Report "Health, Wellbeing & Productivity in Offices"







# Trends towards healthy buildings...

#### Green Building Council

#### CUNDALL































THE IMPACT OF GREEN BUILDINGS ON PEOPLE AND PROFIT

FEBRUARY 2016





Health, Wellbeing &

**Productivity in Offices** 

The next chapter for green building













JULY 2016







GLOBAL CAMPAIGN SPONSORS:









8%

Improvement in performance.

35%

Reduction in absenteeism.

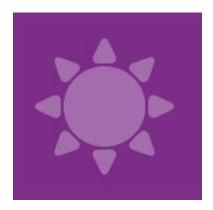


4%

Reduction in performance at cooler temperatures.

6%

Reduction in performance at warmer temperatures.

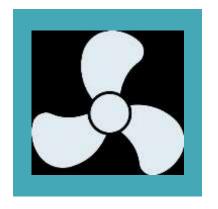


46%

More sleep per night on average for office workers with windows.



#### Impact on sustainability



# 12 l/s/person to 25 l/s 8% improvement for everyone?

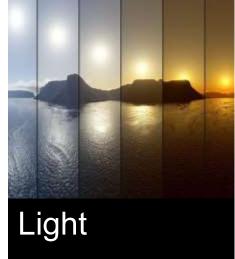
800% more fan energy or more plant space More cooling & heating

#### WELL Building Standard









Water

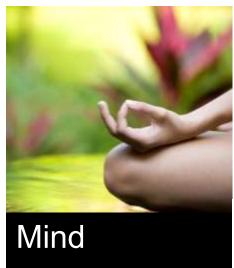
Nourishment



Fitness



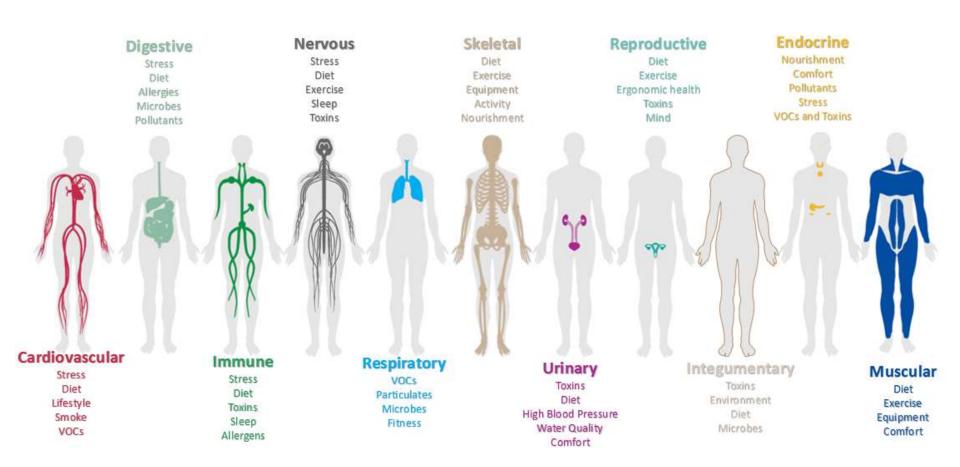
Comfort





#### WELL Building Standard

#### **CUNDALL**



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#### Performance Based Standard



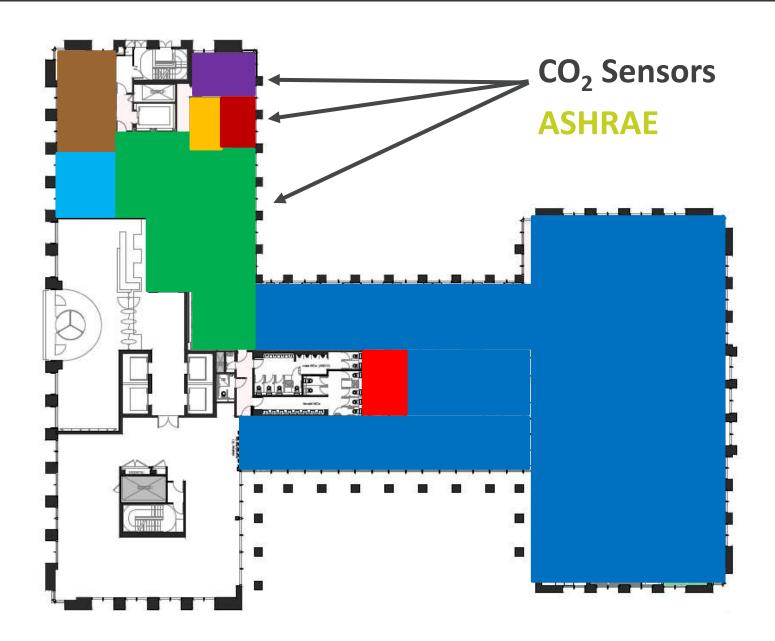




#### One Carter Lane - Case Study







#### Air - Health Materials







Air - VOCs





















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"...I understand it now, if I can eat it, I can install it..."



#### "...it doesn't have that new car smell..."

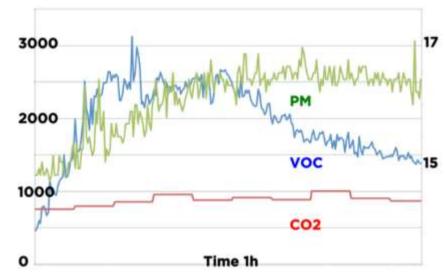
Element	WELL Standard	Cundall
Carbon Monoxide	<9ppm	0.8ppm
Formaldehyde	<27ppb	1.28 ppb
Ozone	<51ppb	5.5 ppb
Nitrogen Dioxide	<53ppb	21ppb
PM2.5	<15µg/m³	8µg/m³
PM10	<50µg/m³	0μg/m <sup>3</sup>
Total VOCs	<500µg/m³	1323.2µg/m³

"...I can smell the difference..."





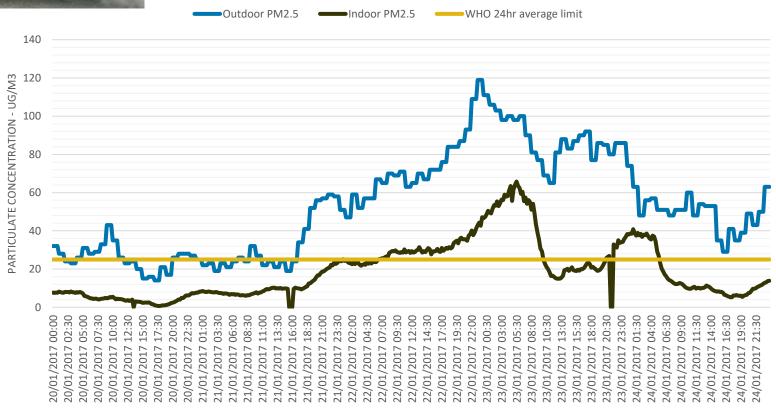








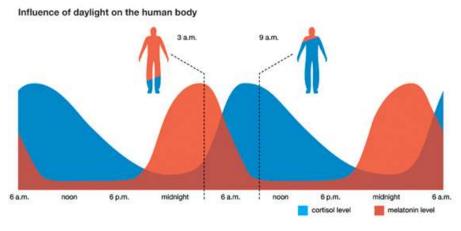
#### PM2.5 comparison



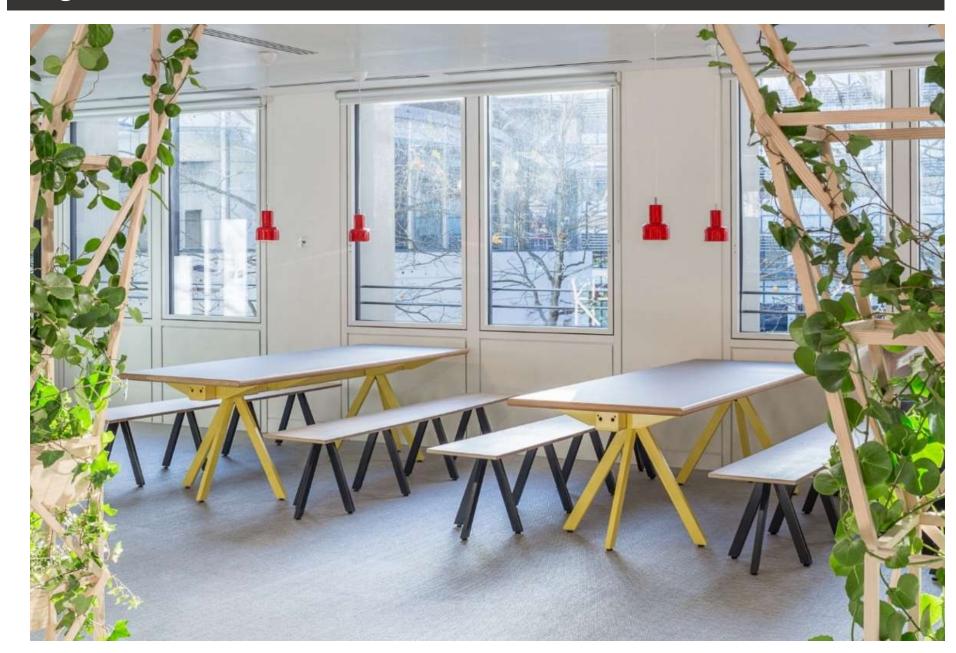


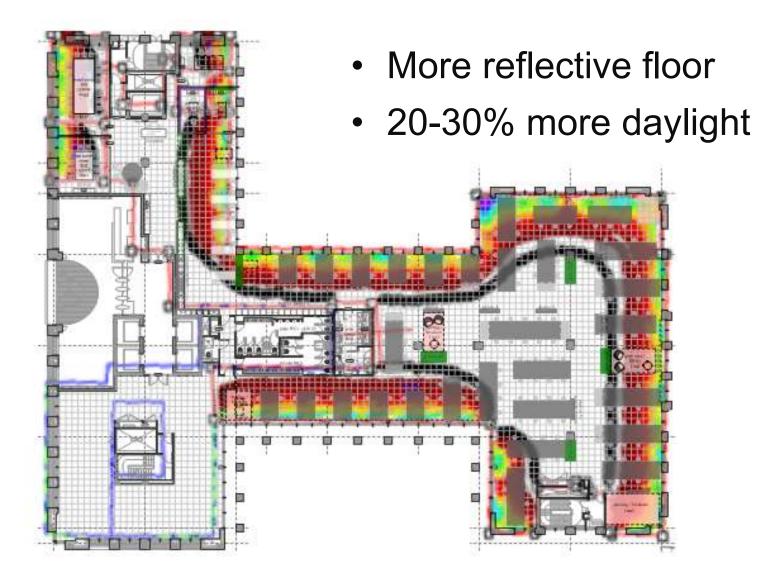
### Light







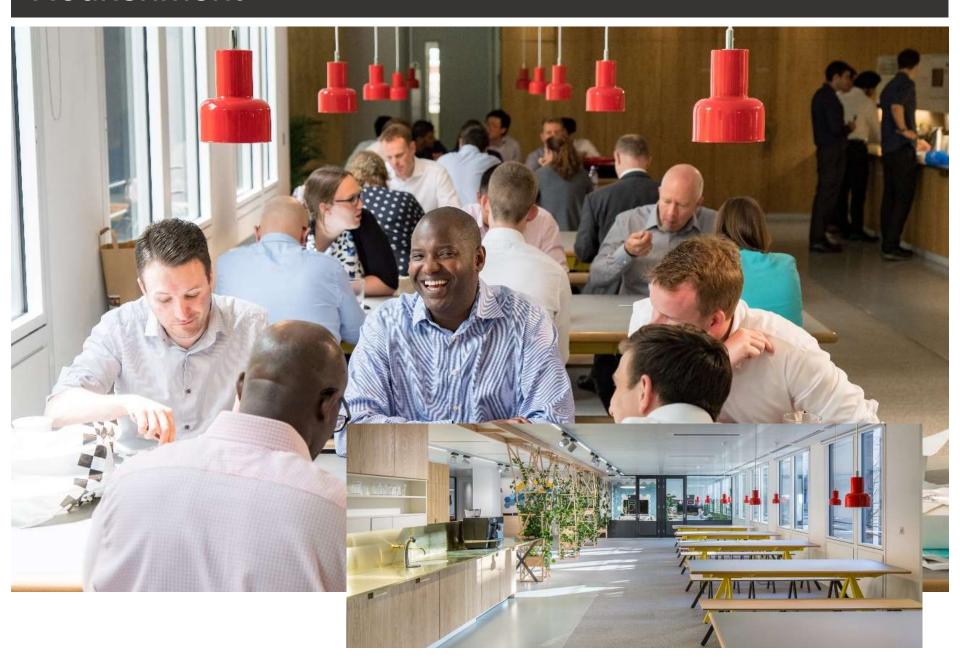




Nourishment



Seating for 30% of staff

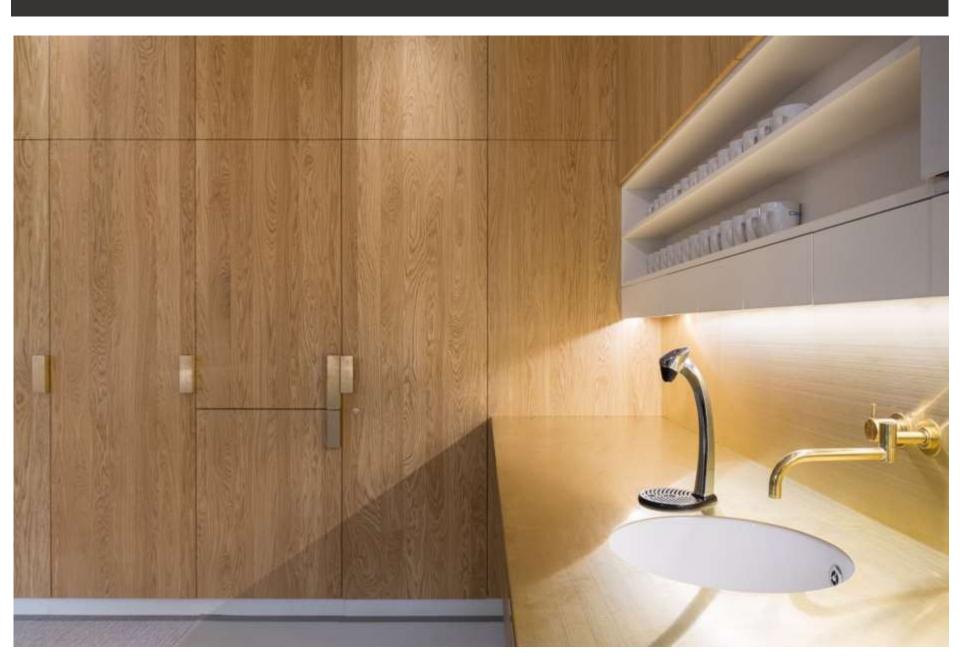




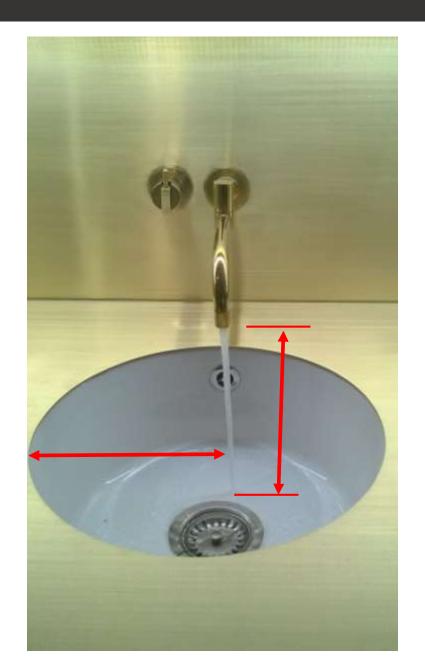










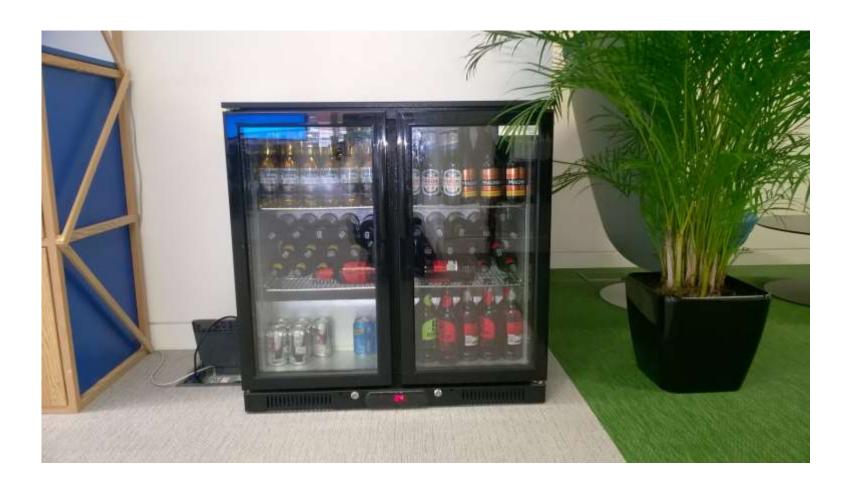












Fitness

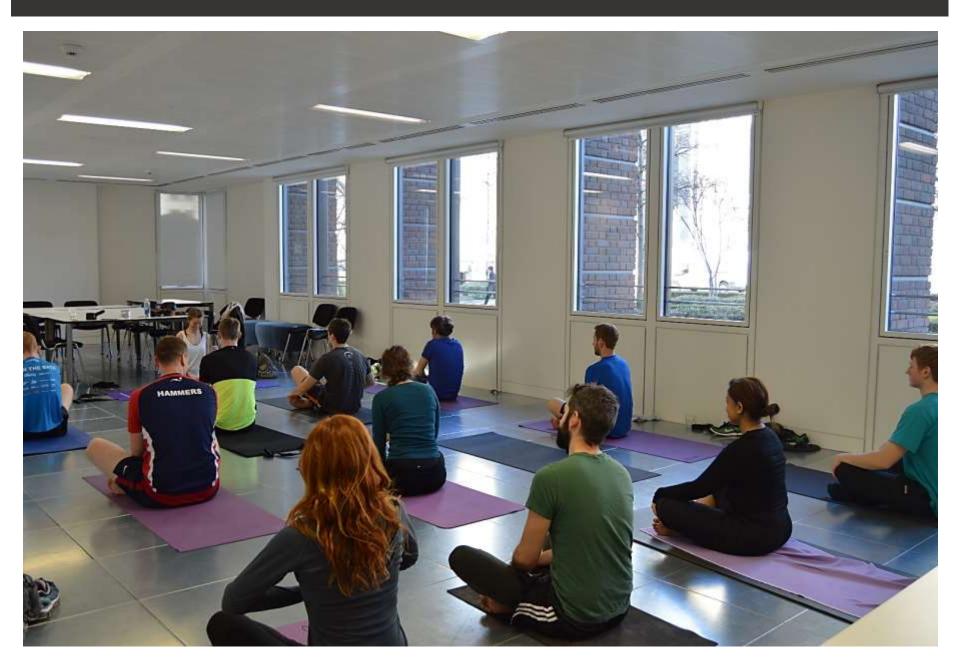
#### CUNDALL



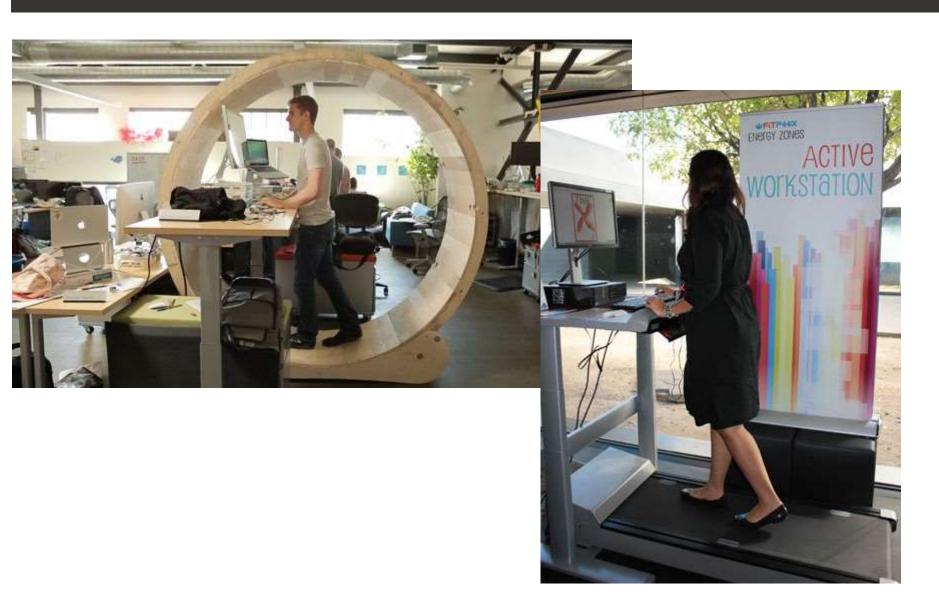
**Health & Wellbeing** 















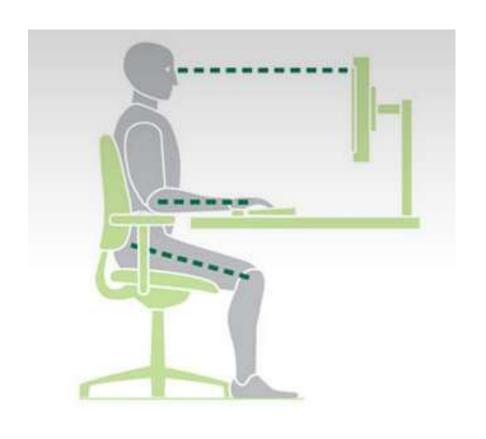


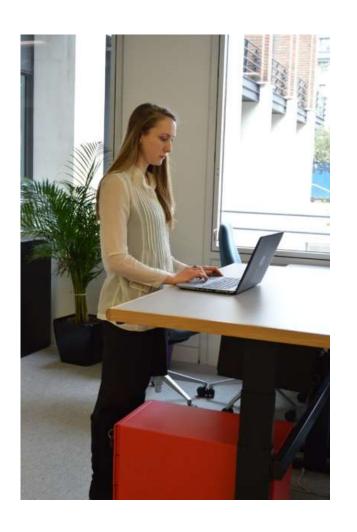




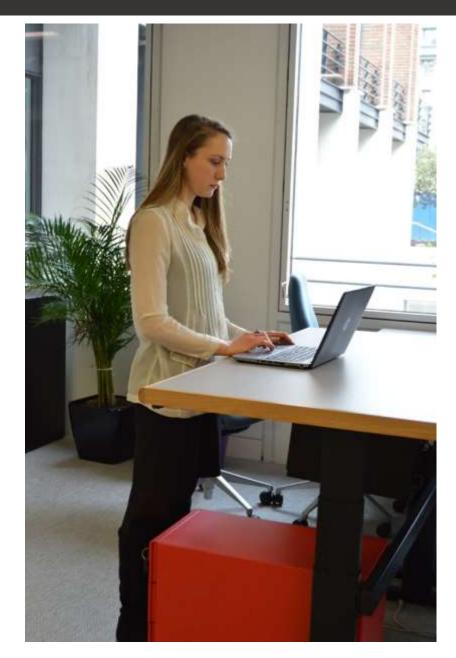
Comfort







Sitting Kills, Moving Heals by Joan Vernikos















#### Feel Good Factor





What is the impact on productivity?

# Mind: Biophilia – Cundall Experiments







# Mind: Biophilia















#### WELL – Cost

#### CUNDALL

# Total Cost £850,000 1,500m<sup>2</sup> fit-out

- Joinery materials £3,000
- Egger board to joinery units £1,500
- Compliant ply to vinyl floor £60
- Bolon floor in lieu of carpet £5,200
- Compliant paint coats £7,000
- Variable air volume to meeting rooms £5,000
- Air Water / Testing £2,000
- Water Filter £7,000

Total £30,760

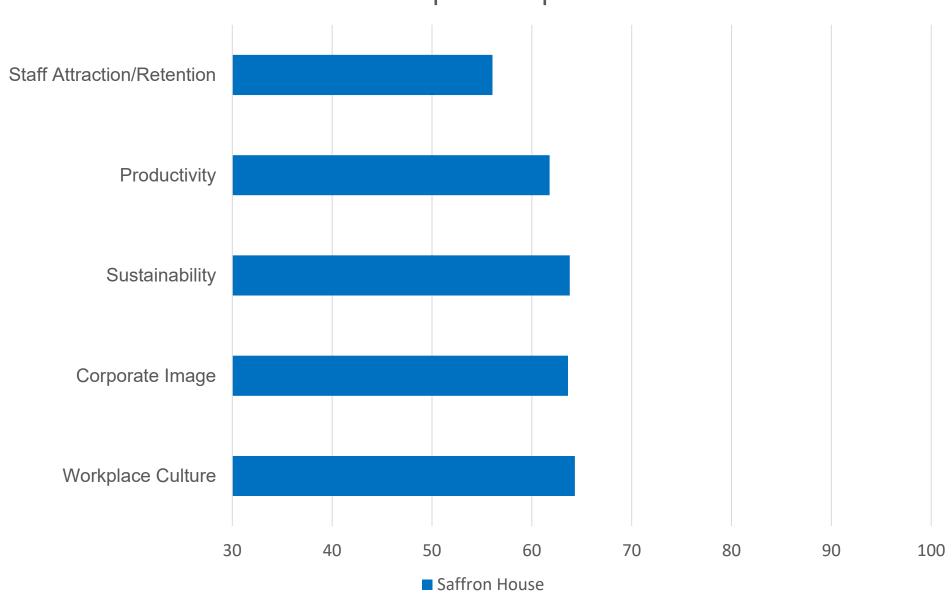
3.6% uplift or £200 per head

**WELL Fees - £6,000** 

+ £15-20K Consultancy Fees

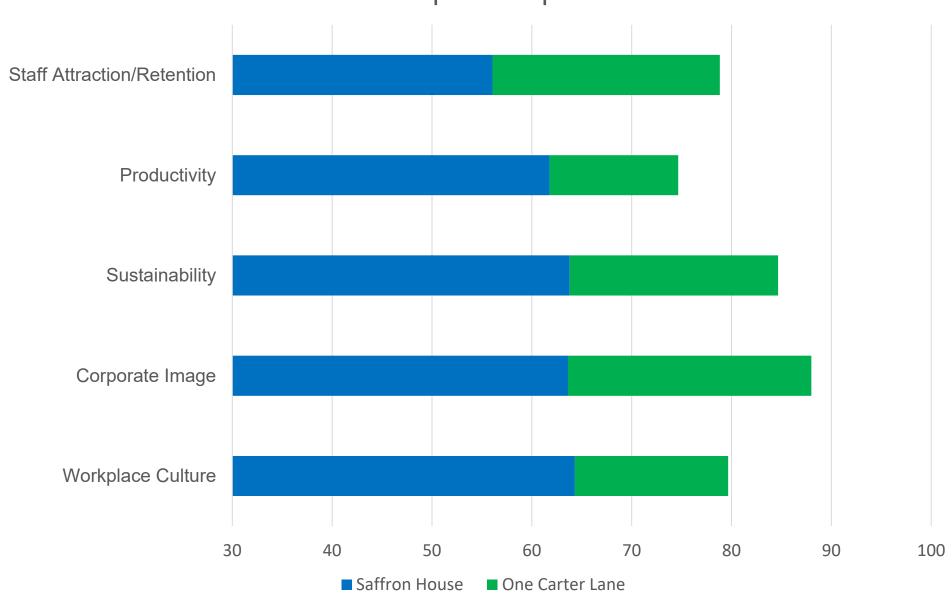
## HR Metrics – Post Occupancy Survey





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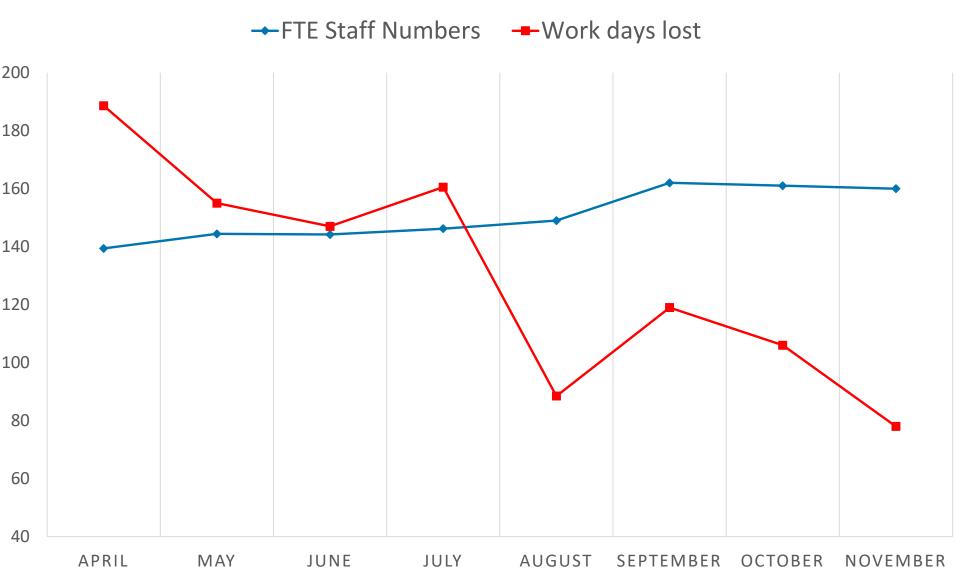


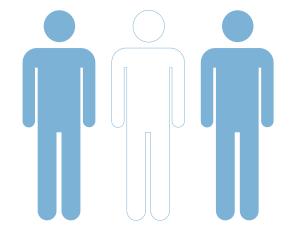


#### HR Metrics - Absence Rate









50%

REDUCTION IN ABSENTEEISM COMPARED WITH 27%

2/%

REDUCTION IN STAFF TURNOVER



**SAVING PER ANNUM** 



