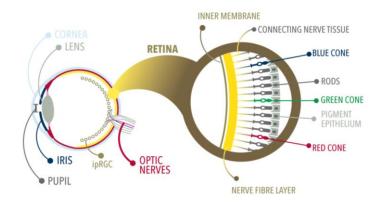




OUR EYES DO MORE THAN JUST SEE.





EXPOSURE TO LIGHT SUPPRESEED MELATONIN FOR ABOUT

HARVARD RESEARCHES AND THEIR COLLEAGUES
CONDUCTED AN EXPERIMENT COMPARING THE EFFECT
OF 6.5 HOURS OF EXPOSURE TO BLUE LIGHT, AND
EXPOSURE TO GREEN LIGHT OF COMPRABLE
BRIGHTNESS

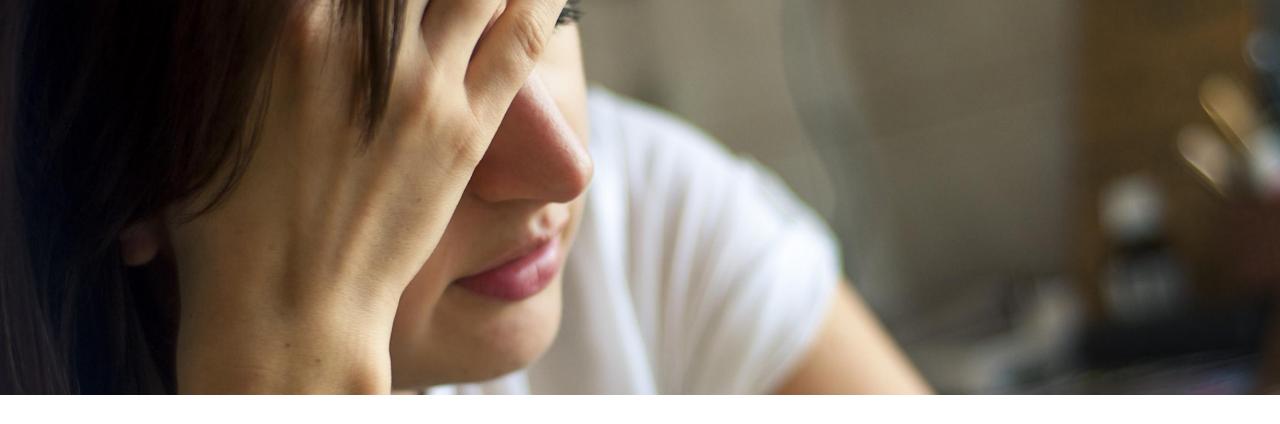
THE BLUE LIGHT SUPPRESEED MELATONIN FOR ABOUT TWICE AS LONG AS THE GREEN LIGHT AND SHIFTED CIRCADIAN RHYTHMS BY TWICE AS MUCH, 3 HOURS VS 1.5 HOURS.

3

http://www.health.harvard.edu/staying-healthy/blue-light-has-a-dark-side

³Circadian Rhythm Sleep Disorders: Part 1, Basic Principles, Shift Work and Jet Lag Disorders, An American Academy of Sleep Medicine Review. Sack, RL, et al. 11, 2007, Sleep, Vol. 30, pp. 1460-1483.

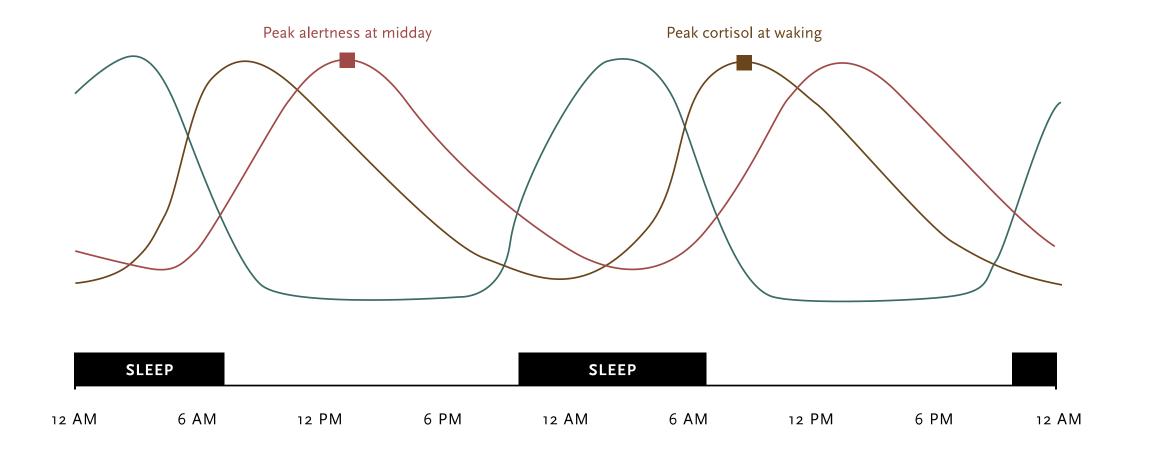
⁴ Cleveland Clinic. Delayed Sleep Phase Syndrome (DSPS). Diseases & Conditions. [Online] Jan 26, 2009. http://my.clevelandclinic.org/disorders/sleep disorders/hic delayed sleep phase syndrome.aspx.



HEALTH IMPACTS OF DISRUPTED CIRCADIAN RHYTHM.



LIGHT AT NIGHT, A POSSIBLE CARCINOGEN



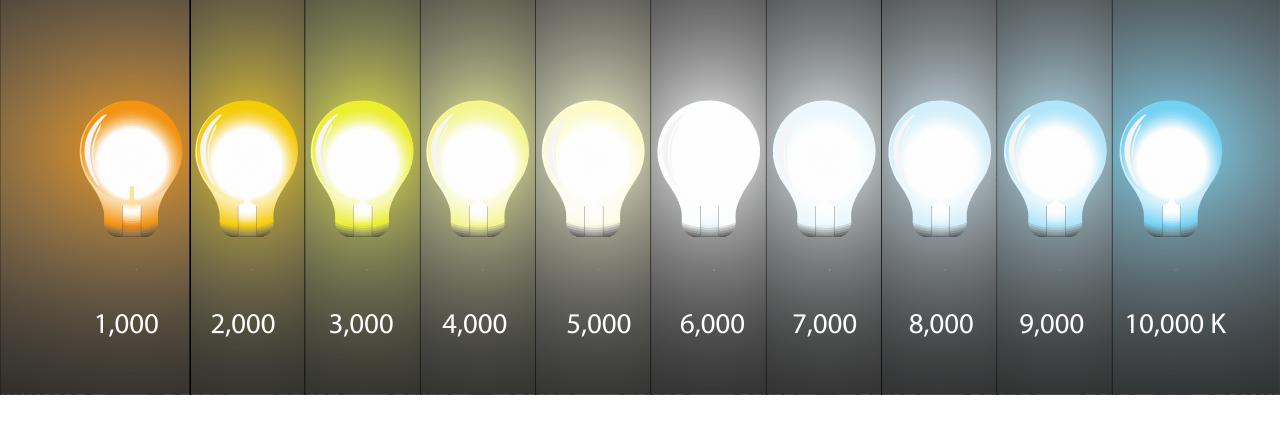
DAILY CYCLE OF CORTISOL & MELATONIN



PROVIDE DARKNESS IN THE EVENINGS.



TYPICAL ILLUMINANCE (LUX) LEVELS



CORRELATED COLOR TEMPERATURE (CCT)



MAXIMIZE DAYLIGHT

- FOCUSED WORK INCREASED BY 15% FOR THOSE WHO HAD WINDOW VIEWS. 1
- LACK OF ACCESS TO NATURAL LIGHT IN WORKPLACES AND SCHOOLS POSSESS A 26% HEALTH HAZARD.
- LACK OF NATURAL LIGHT IS CONSIDERED THE NUMBER ONE WORKPLACE HEALTH HAZARD BY 36% OF PSYCHOLOGIST AND PSYCHIATRISTS.

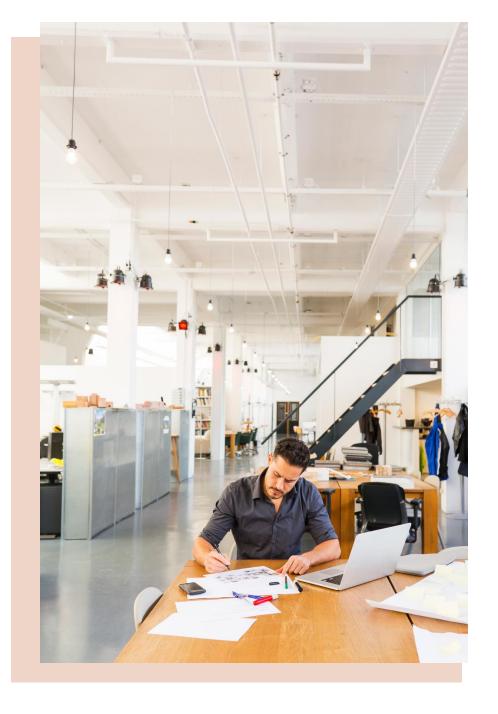
10



The WELL Light concept promotes exposure to light and aims to create lighting environments that promote visual, mental and biological health.

- L01 Light Exposure*
- L02 Visual Lighting Design*
- L03 Circadian Lighting Design
- L04 Electric Light Glare Control
- L05 Daylight Design Strategies

- L06 Daylight Simulation
- L07 Visual Balance
- L08 Electric Light Quality
- L09 Occupant Lighting Control



LO1 LIGHT EXPOSURE

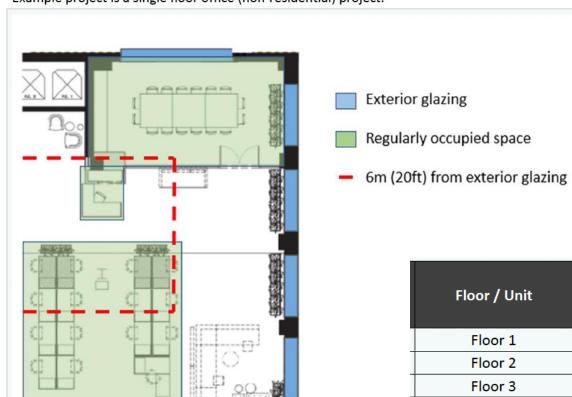
Provide indoor light exposure through daylight and/or electric light strategies.

- Average sDA 200,40% is achieved for at least
 30% of regularly occupied floor area
 - 200 lux for 40% of operating hours
 OR
- At least 30% of the regularly occupied area is within a 6 m horizontal distance of envelope glazing in each floor.

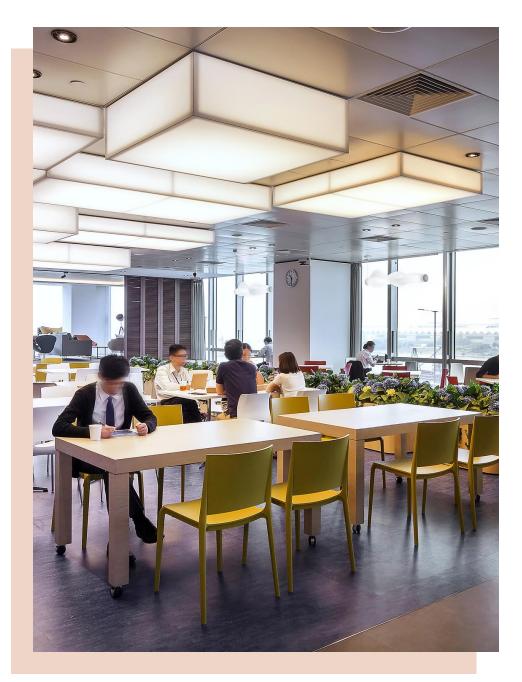
LO1 LIGHT EXPOSURE

EXAMPLE EXCERPT FROM ANNOTATED PLANS

Example project is a single floor office (non-residential) project.



Floor / Unit	Total Regularly Occupied Area (sqft)	Regularly Occupied Area within 20ft of Exterior Windows	Percent Compliant Area	≥30%?
Floor 1	17,320	9,540	55%	YES
Floor 2	17,320	10,240	59%	YES
Floor 3	17,320	6,230	36%	YES
Floor 4	17,320	11,430	66%	YES



LO2 VISUAL LIGHTING DESIGN

LO4 ELECTRIC LIGHT GLARE CONTROL

LO7 VISUAL BALANCE

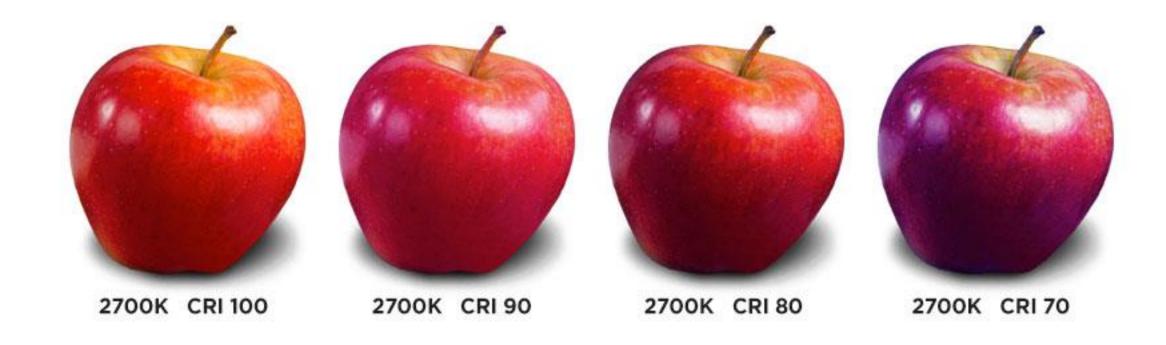
LO8 ELECTRIC LIGHT QUALITY



LO7 VISUAL BALANCE

Fluctuating light levels can lead to eye fatigue, visual discomfort, a decrease in productivity and negatively impact well-being.¹⁷⁻¹⁸

LO8 ELECTRIC LIGHT QUALITY

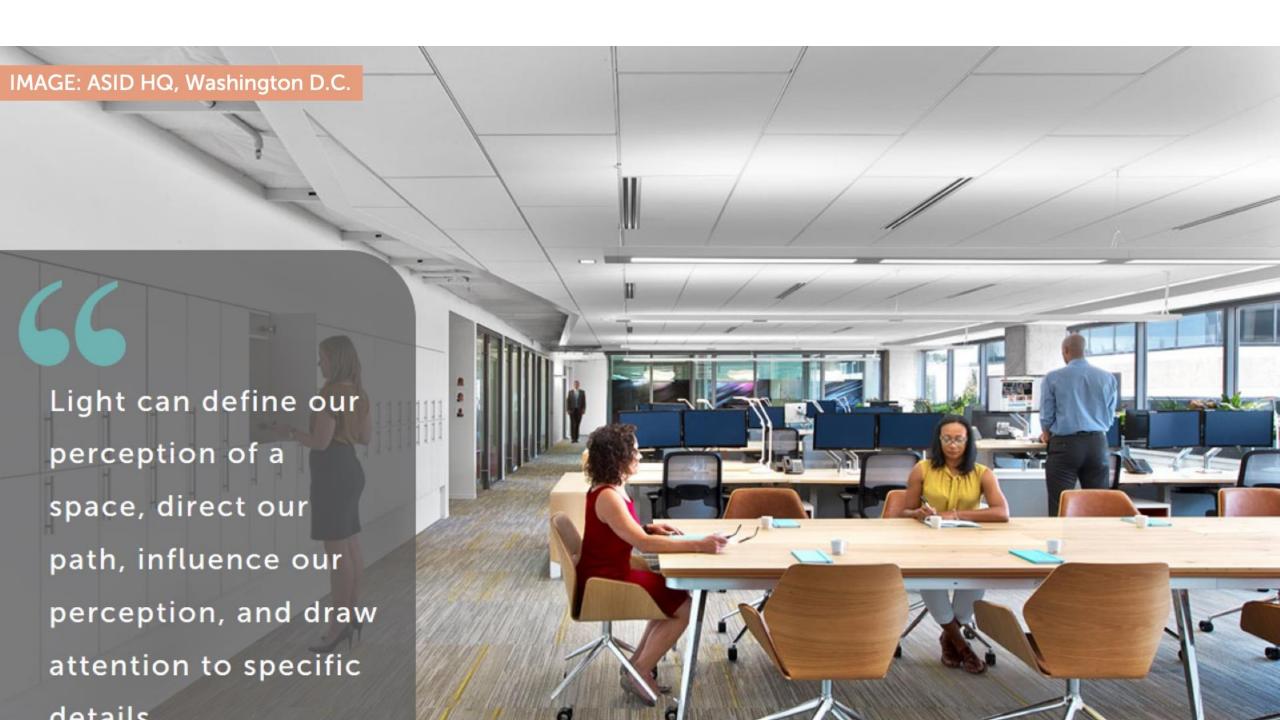


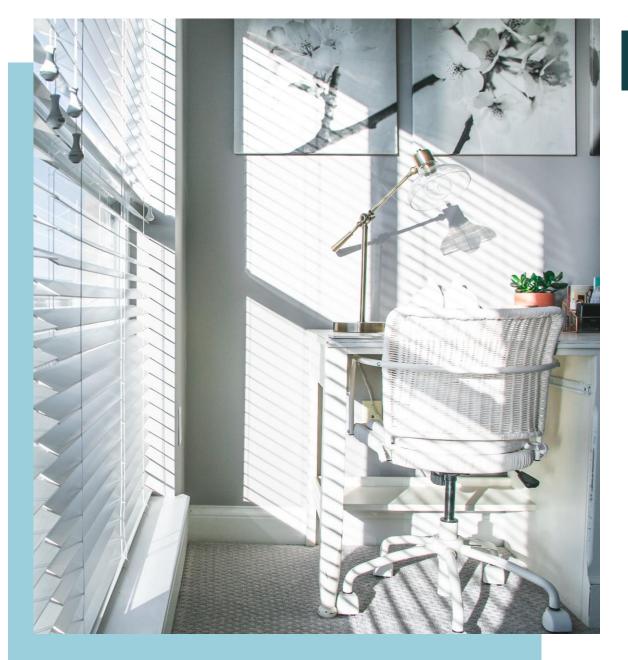


LO3 CIRCADIAN LIGHTING DESIGN

Support circadian and psychological health with indoor daylight exposure and outdoor views.

- 1. Meet Lighting for Day Active People
- Light levels achieved on the vertical plane, entering people's eyes
- Measured by performance test of EML the irradiance, weighted to the response of the ipRGCs, which are the primary driver for the circadian rhythm in the eyes.

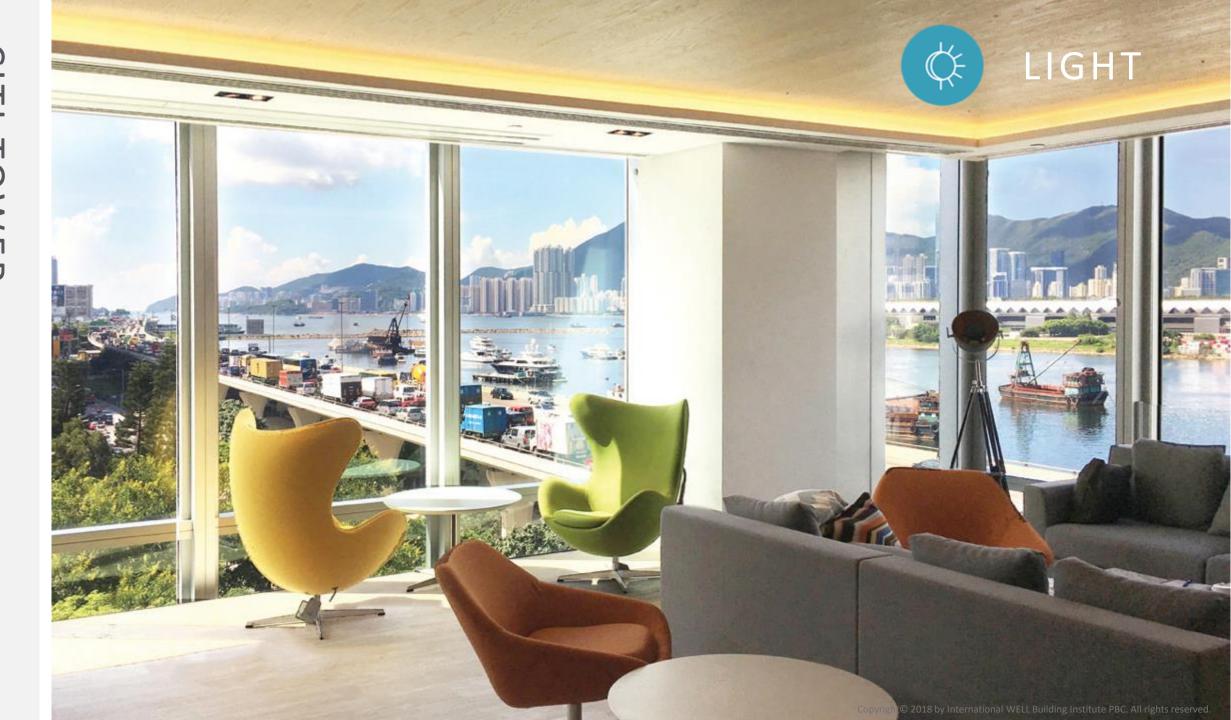




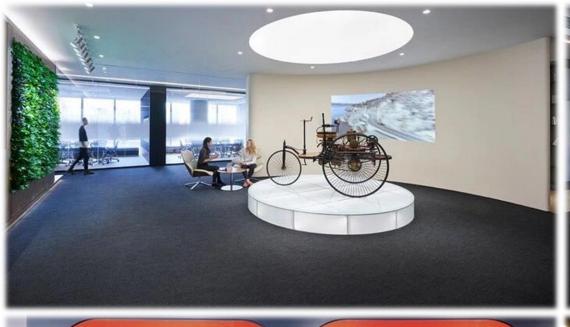
LO9 OCCUPANT LIGHTING CONTROL

Provide individuals with access to customizable lighting environments.

- 1. Enhance Occupant Controllability
- 2. Provide Supplemental Lighting













Project Name:Daimler

Greater China Headquarters

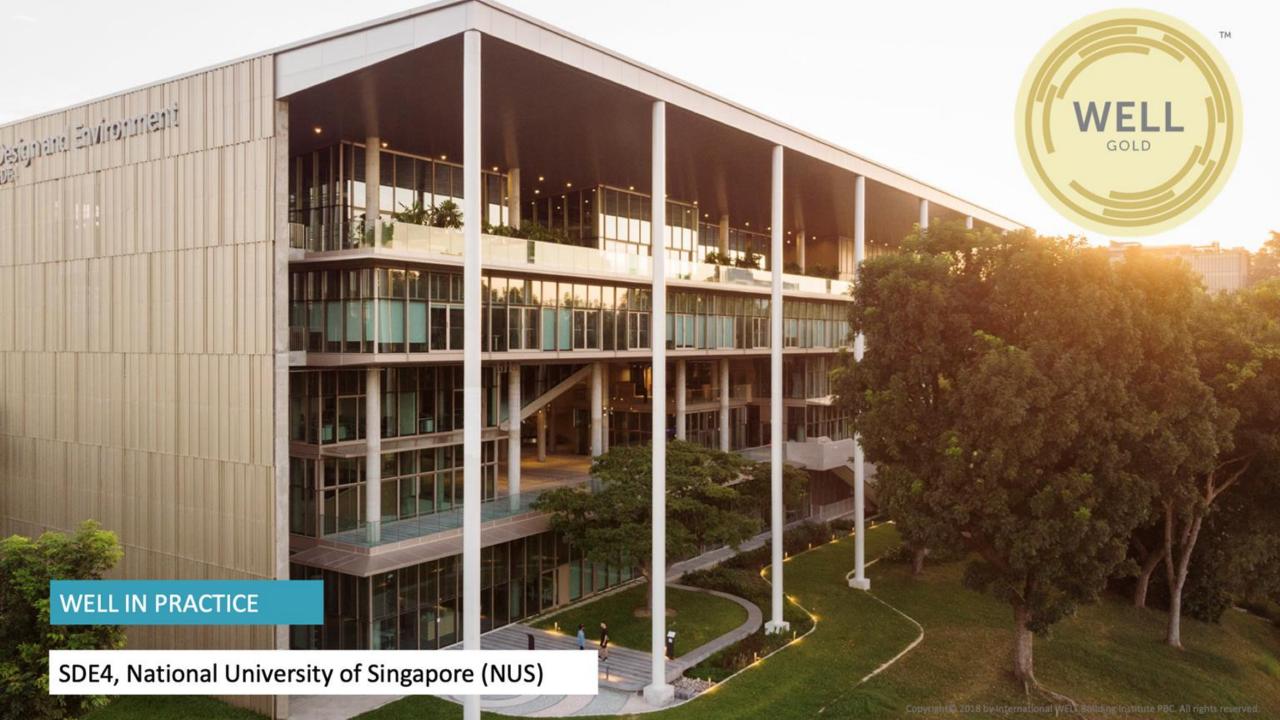
Owner Name:
Daimler

Location: Beijing, China

Size: 434,791 sqf

Typology: WELL (Office)

- Over 430,000 square feet of WELL through several phases in existing office towers.
- China is Daimler's biggest market so they are proud to show commitment to the central government's 'Healthy China 2030' policy.





WEAREWELL

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