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URBAN LAND INSTITUTE

DESIGNING HEALTHY PLACES

PRESENTED BY:

Andy Cohen, FAIA Co-CEO



How does the built environment affect health?

Design impacts well-being.



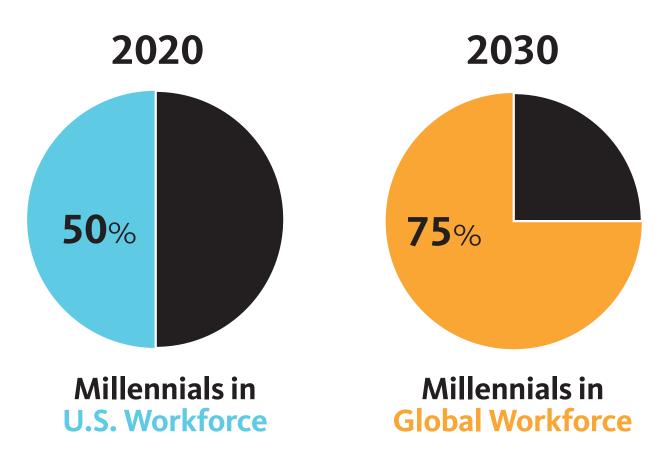
Healthy Workplace Design Drivers



Talent Diversity is Changing Talent Demands

Millennials are demanding healthy environments

- Live/Work Balance: Health & Wellness
- Authenticity: Anti-corporate
- Transient: Want it now
- Purpose: Make a difference



— FORBES, WHY YOU SHOULD BE HIRING MILLENNIALS, JULY 2012

Why Healthy Workplace?

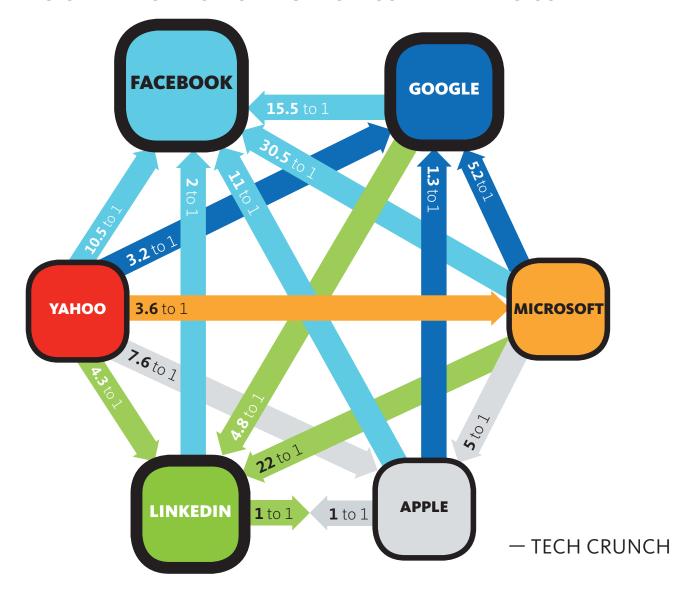
Attracting Talent

A TECH CASE STUDY:

Companies are willing to go to great lengths to attract, keep and nurture fresh talent with innovative ideas.

The cost of human capital

RATIO OF EMPLOYEES MOVING FROM COMPANY A TO COMPANY B



Why Healthy Workplace?

What if the workplace could feel like this?

A healthy employee is

3_X

more productive than an unhealthy one.

— HEALTH FUTURES STUDY, 2010



Why Healthy Workplace?

Wellness Amenities

Concierge

Tech (Genius) bar

Coffee bar

Laundry

Dry cleaning

Day care

Dog walking

Nutritionist

Dentist

Cooking classes

Wellness classes

Fitness classes

Micro kitchen

Sports bar

Community center

Quiet rooms

OUTDOOR ACTIVITIES

Amphitheater

BBQ pits

Screening area

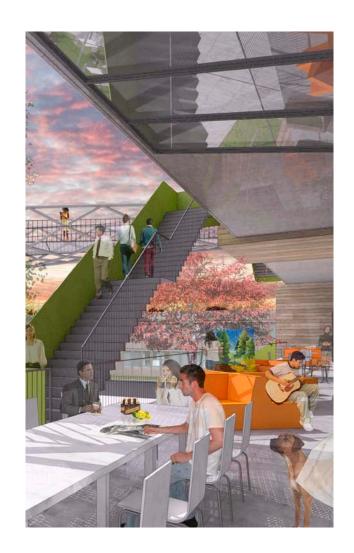
Bike share

Basketball court

Volleyball court

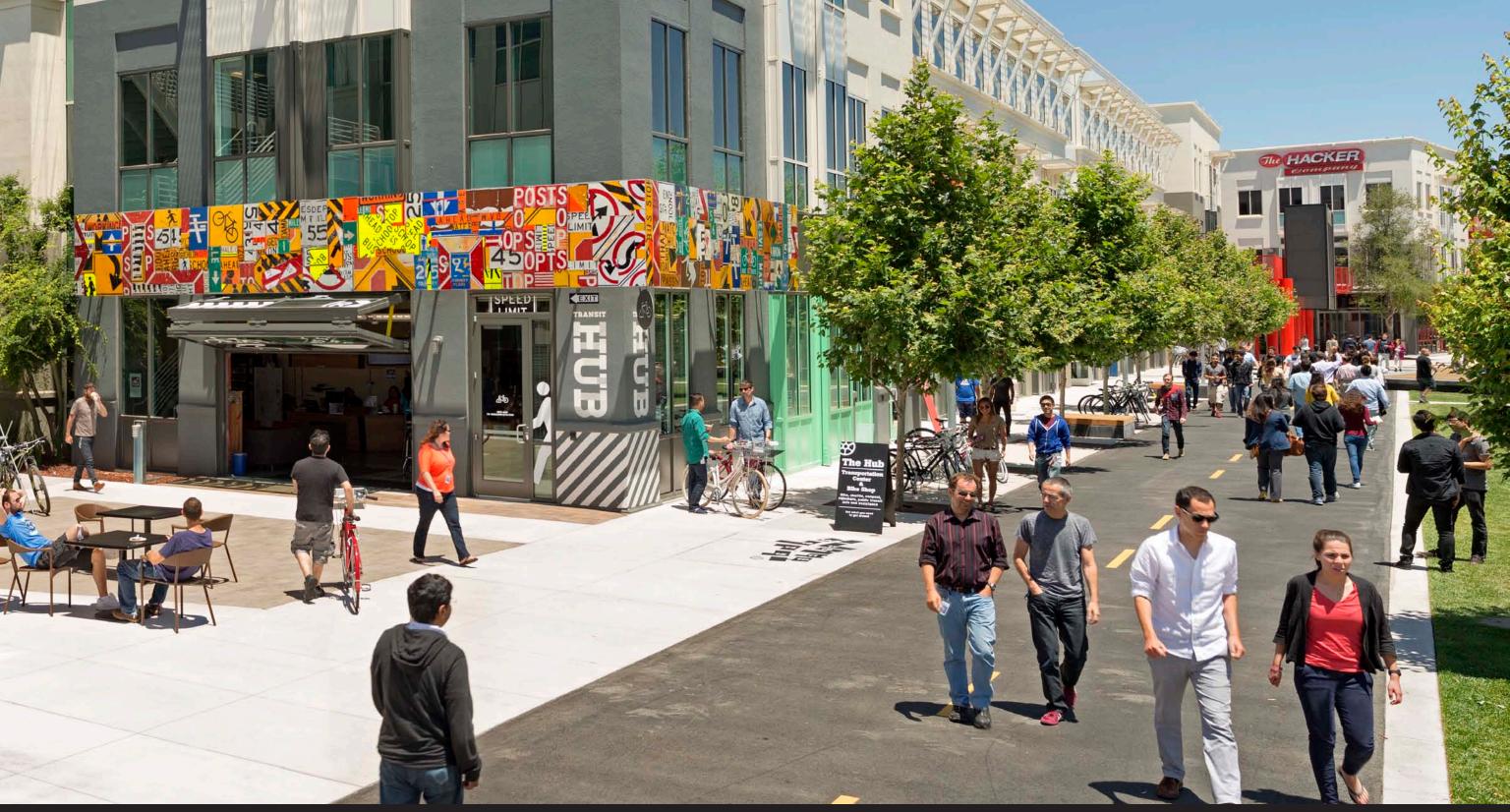
Tennis court

Food trucks





FACEBOOK MENLO PARK, CA

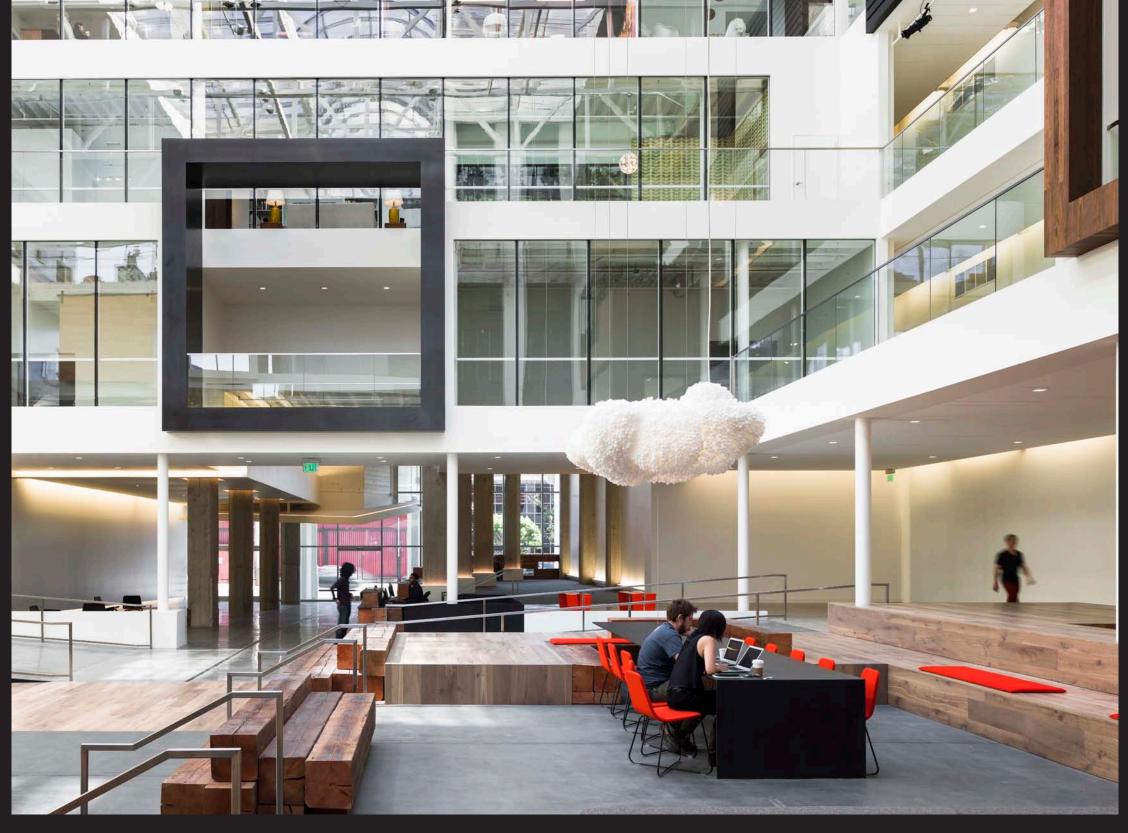


FACEBOOK MENLO PARK, CA

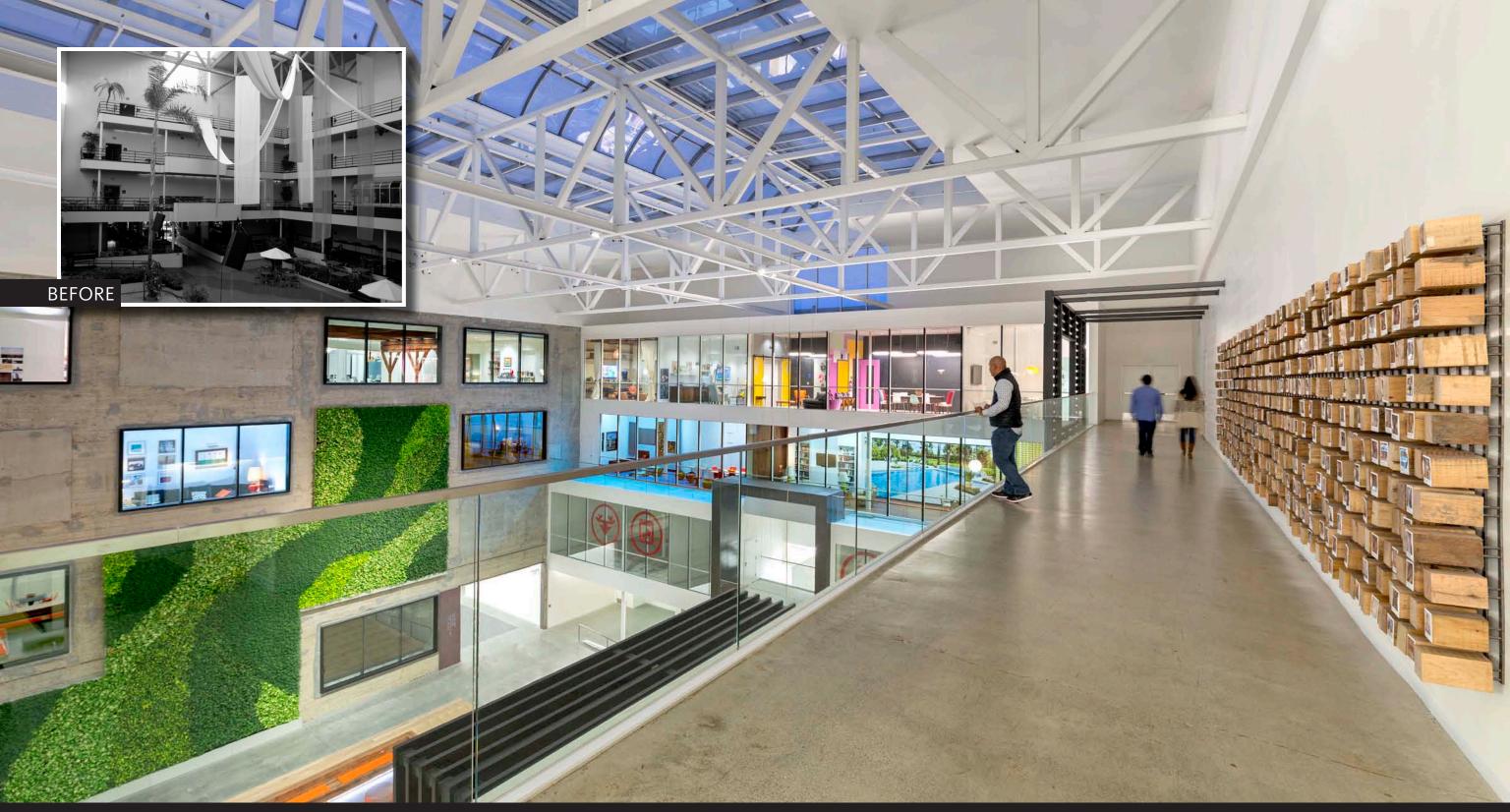
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888 BRANNAN SAN FRANCISCO, CA
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AIRBNB SAN FRANCISCO, CA

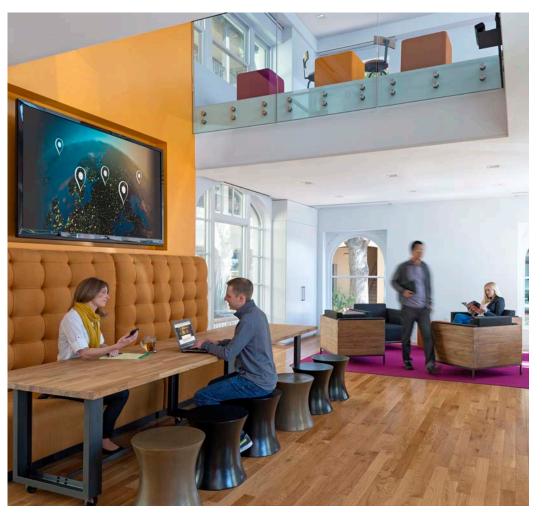
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Unhealthy Workplace Costs

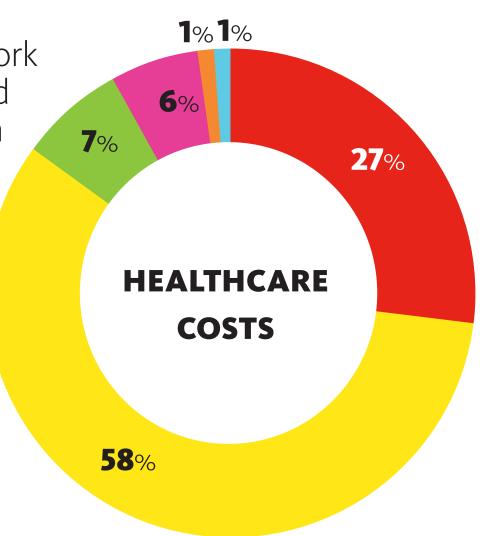
Operational Costs





Employer productivity per work per year lost to health-related absenteeism or presenteeism

- Medical
- Absenteeism
- Presenteeism
- Short-term disability
- Long-term disability
- Workers Compensation



Healthy Workplace Strategies

Sick Building Syndrome (SBS)

30%

Of new and remodeled buildings worldwide are subject of excessive complaints related to indoor air quality (IAQ) causing health and comfort issues for occupants.

BUILDING RELATED ILLNESS (BRI) CAUSES



- VOCs (cleaning products)
- Non-HEPA Vacuum
- Particulates
- Carbon Dioxide Build Up
- Temperature Extremes
- Pesticides
- Computers
- Allergens
- Odors
- Contaminated Air
- Pollen
- Improper Filtration
- Lead
- Mold / Bacteria
- Ashestos
- Water Leaks
- Fiberglass Insulation
- Carpet Fibers
- Sewage
- Furniture
- Improperly Sealed Concrete
- Perfume / Cologne
- Transmittable Disease
- Excessive Exhaust

Healthy Workplace Strategies

Design / **Planning**

- Collaborative and focus space
- Healthy food front and center
- Prominent stairs

Places for Activity

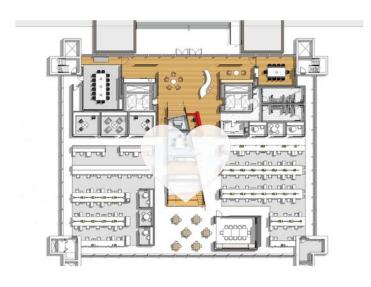
- Amenities for well-being
- Active / Walking meetings
- Active / Adjustable desks

Quality

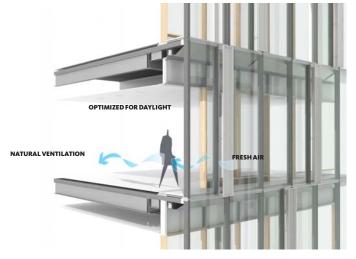
- Natural lighting
- Air quality
- Acoustics
- Temperature and comfort

Environmental Organizational Policies

- Fitness and health incentives
- Real-time feedback
- Reward work-life balance







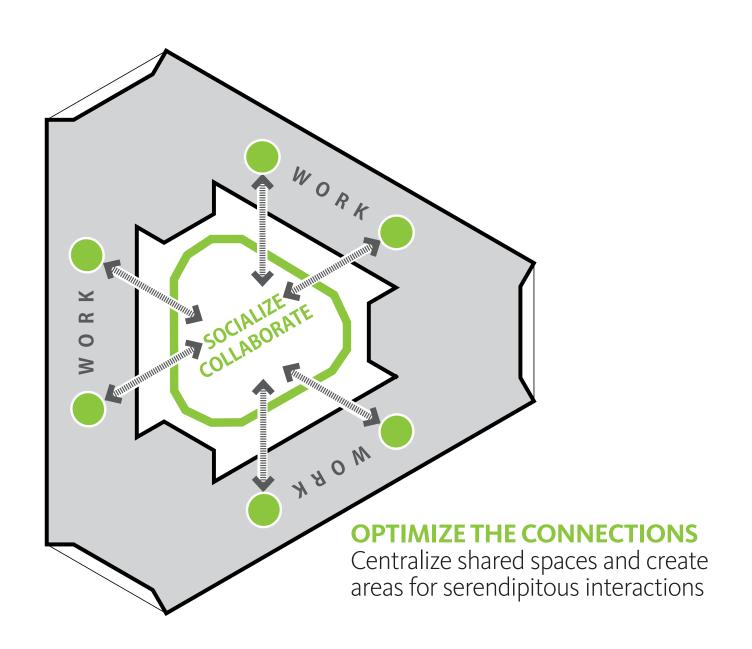


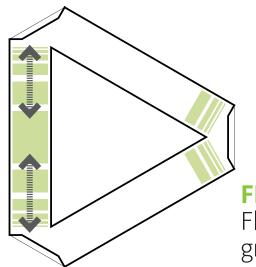
ULI DESIGNING HEALTHY PLACES



NVIDIA SANTA CLARA, CA

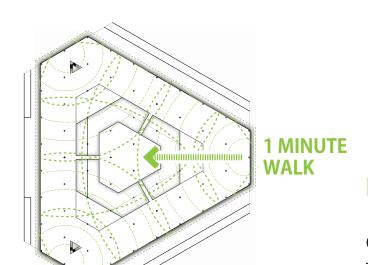
GIVING THE BUILDING A HEART





FLEXIBLE NEIGHBORHOODS

Flexible work zones absorb growth and surge

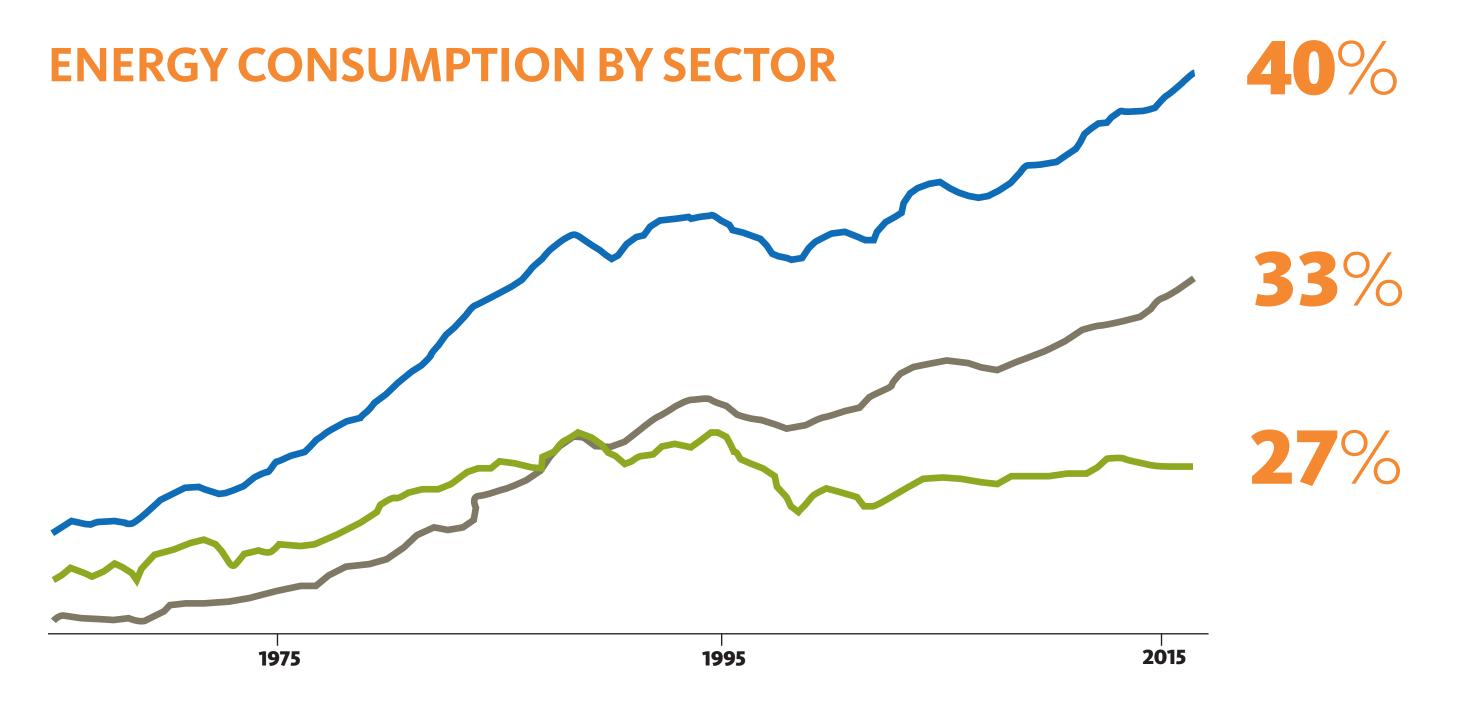


PROXIMITY

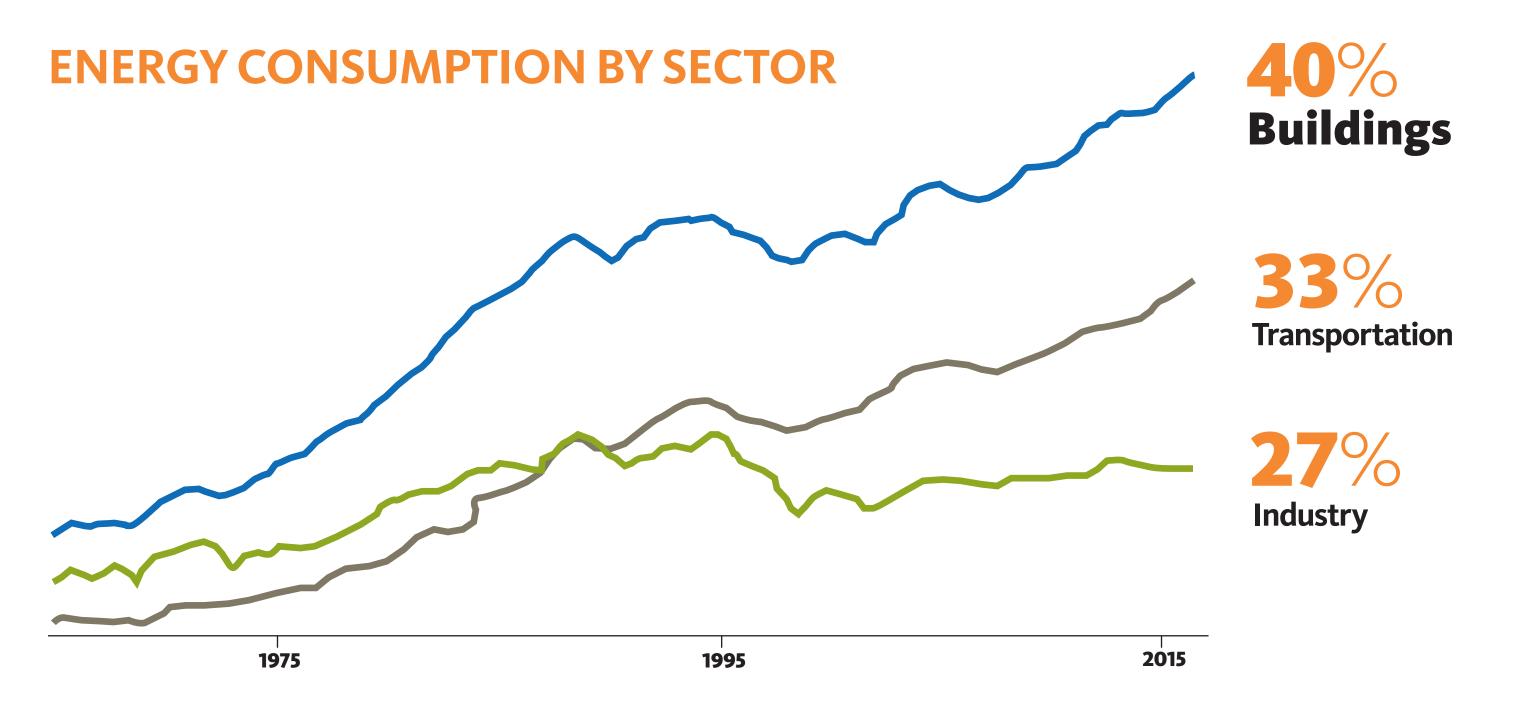
Research shows that visual connectivity is necessary for effective collaboration

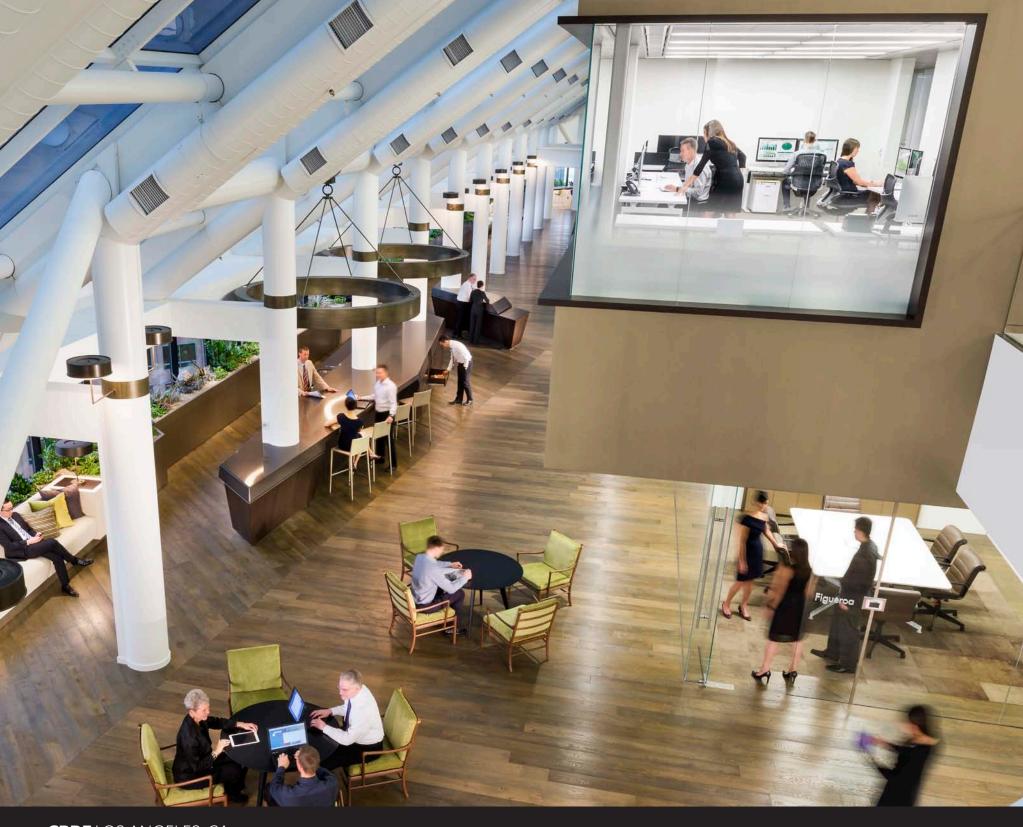
NVIDIA SANTA CLARA, CA

Designing Healthy Places



Designing Healthy Places





"As the substantial return on investment (ROI) is confirmed, we see that well-being will be a significant part of the marketplace moving forward..."

LEWIS C. HORNE

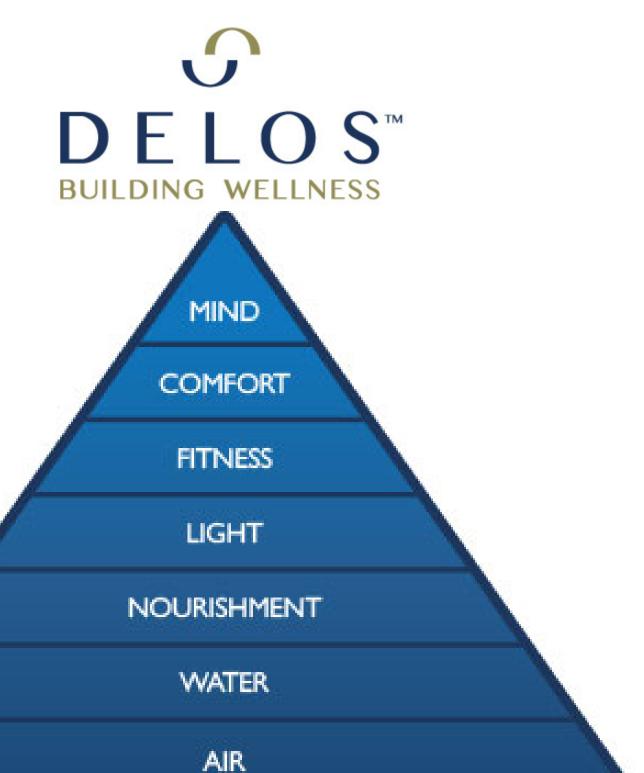
President CBRE, Los Angeles, CA

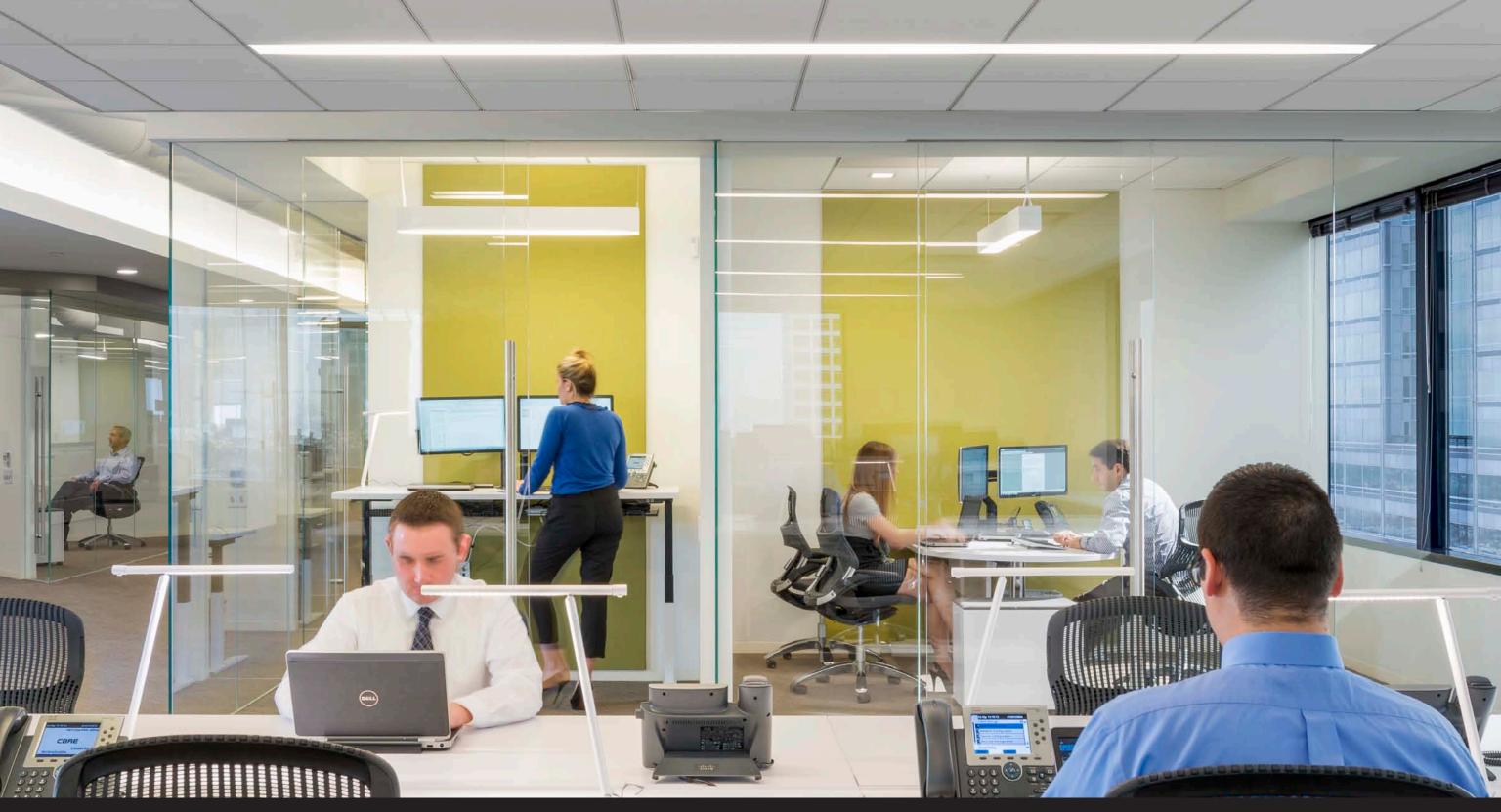


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Healthy Workplace Strategies

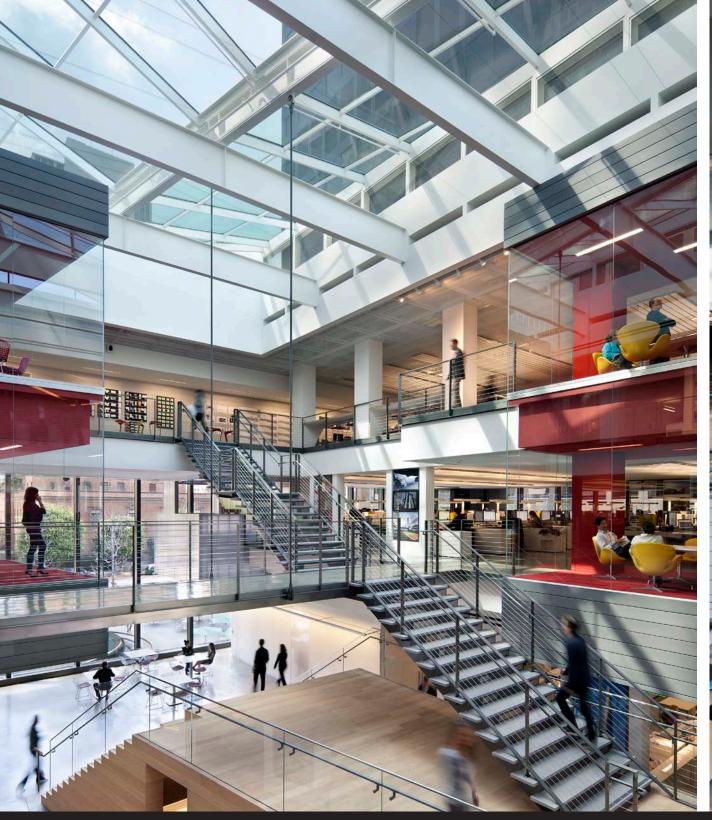




CBRE LOS ANGELES, CA

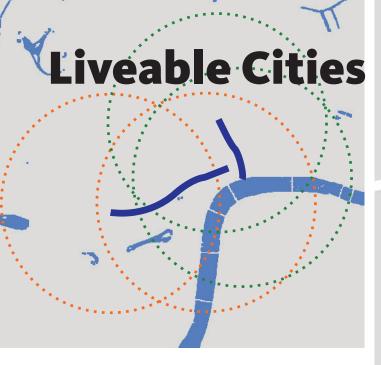
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GENSLER LOS ANGELES, CA

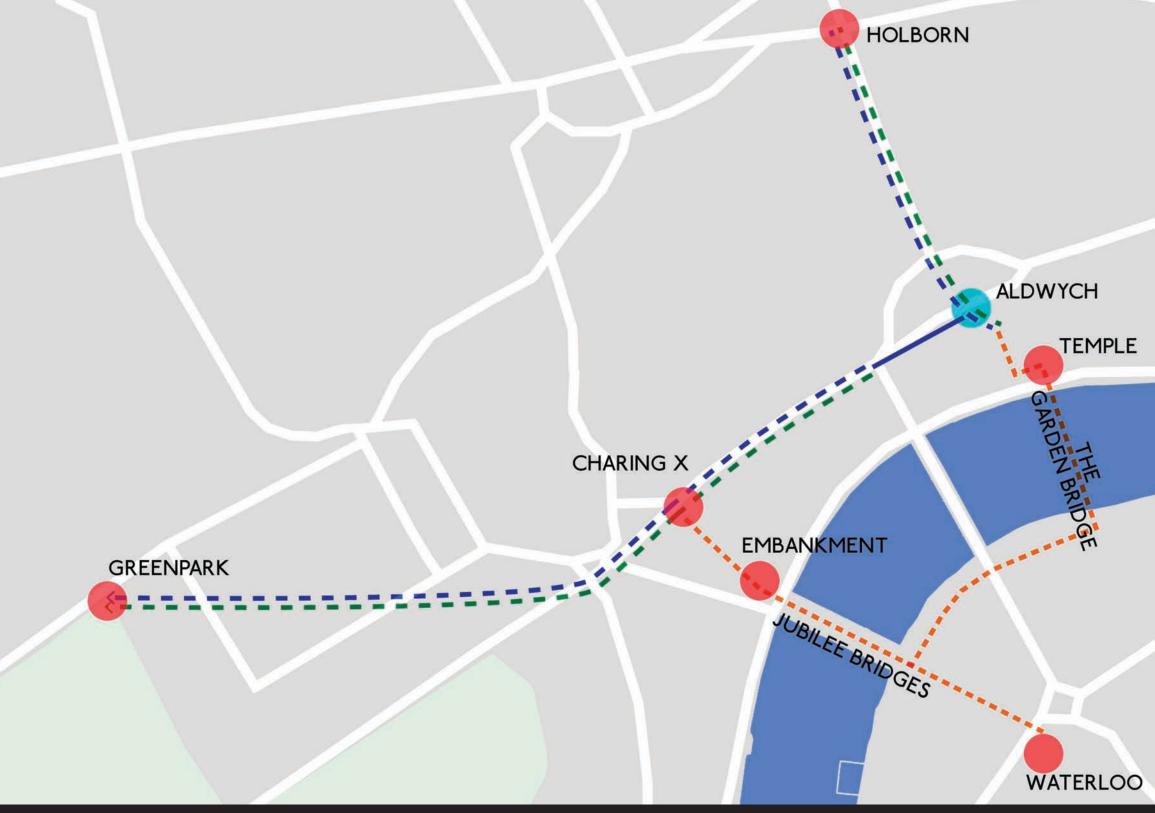




EXISTING STATION

UNDERLINE TUNNEL

OVERGROUND WALKWAY



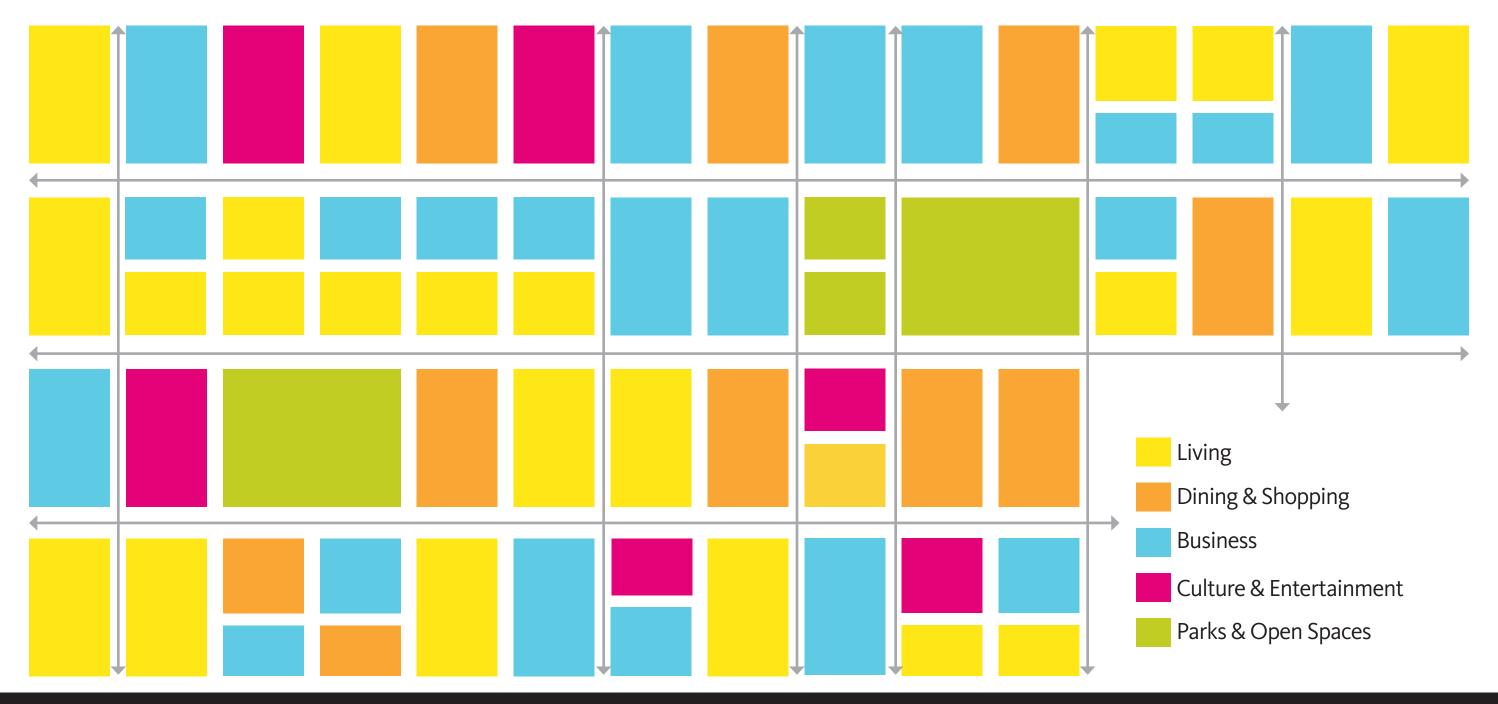
LONDON UNDERLINE LONDON, UK



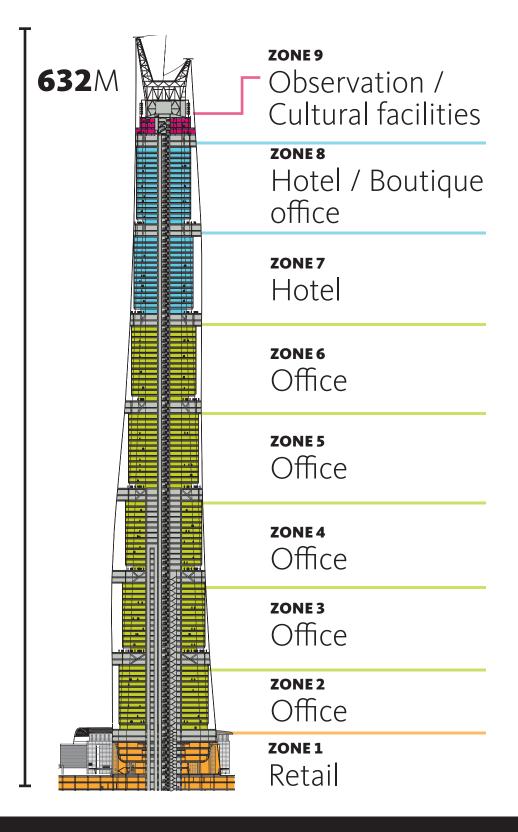
LONDON UNDERLINE LONDON, UK

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Amenities and Dynamic Cities

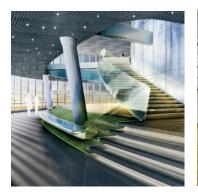






A VERTICAL CITY

Shanghai Tower is a **city within a city** comprising nine vertical zones, each 12 to 15 stories high. Each zone is encircled by public space within the double-skin façade.



Observation level



Offices



Sky lobbies



Retail podium



Ground-floor lobbies





HEALTHY DESIGN MATTERS

PUTTING BEST ENVIRONMENTAL PRACTICES IN VIEW

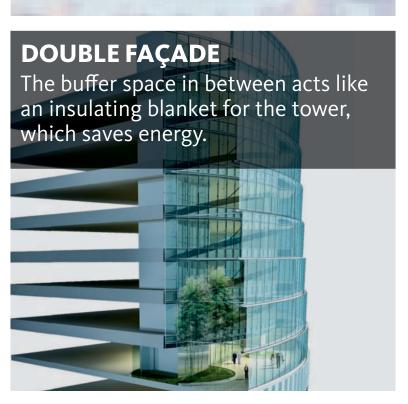
Healthy building design is at the core of Shanghai Tower's development.

GREEN STRATEGIES

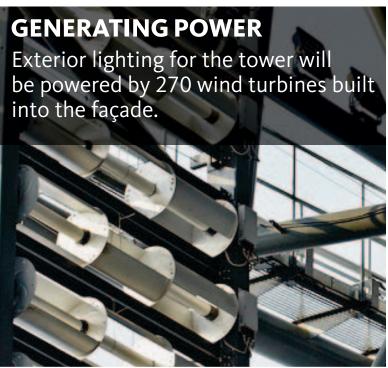
Shanghai Tower will achieve both LEED Gold certification and a China Green Building Three Star rating. Shanghai Tower's sustainable strategies will reduce the building's carbon footprint by

34 METRIC TONS PER YEAR

DAYLIGHTING The glass skin admits maximum daylight, reducing the need for electric lighting.











INTELLIGENT SKIN

Double skin acts as an insulating blanket, keeping the sun's heat out in the summer and the building's heat in the Winter, at the same time letting the maximum amount of light in to reduce the need for artificial lighting in the day.

Wall Type:





