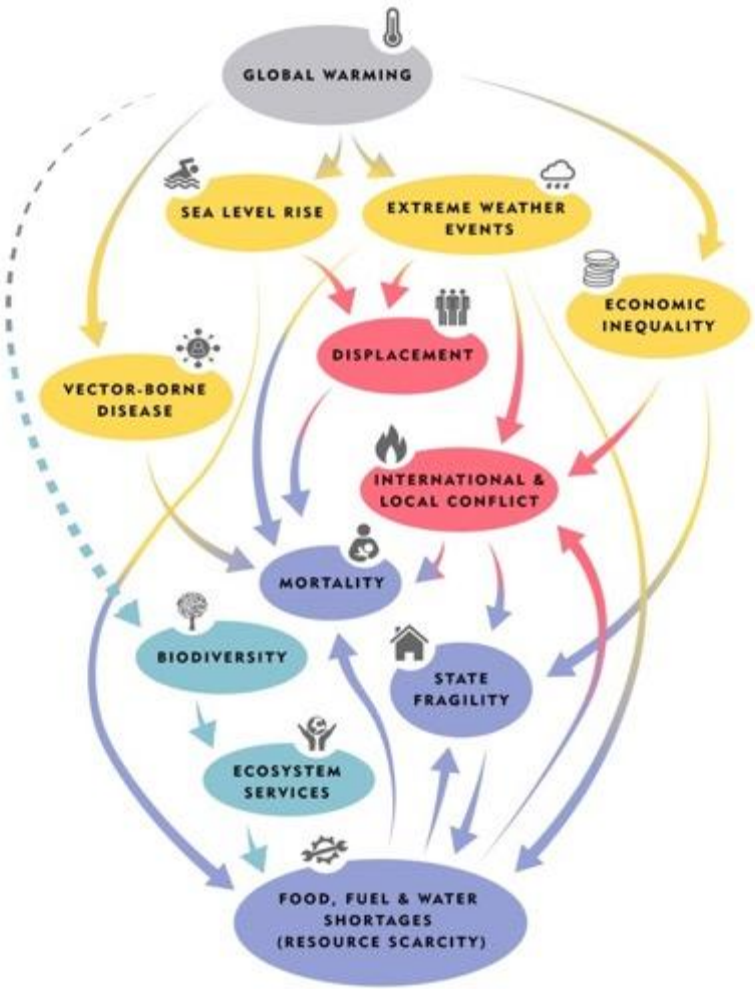


WAUGH THISTLETON ARCHITECTS



40% of global emissions are from the built environment.

By 2030 50% of those will be from the building materials we use.

And in the next 35 years we will double the volume of our built environment.

A CHANGING WORLD



68% of world's population will live in urban areas by 2050

Cities consume two-thirds of global energy

Cities produce 70% of global emissions

Increase risk of depression, anxiety and psychosis

Need to provide adequate infrastructure and green space

People spend 90% of their time indoors

RAPID URBANISATION

Impacts health



Health is becoming an economic priority

The wellness economy is growing rapidly, increasing demand for buildings designed around wellbeing.

Healthy buildings create value.

Like sustainability, health-focused design can increase rental value, tenant retention and long-term building performance.

WELLBEING MATTERS NOW

The pandemic changed expectations



Survival



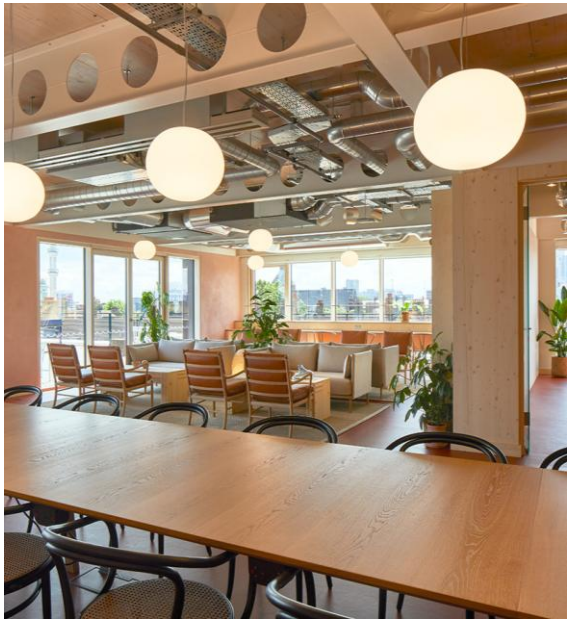
Infection control



Flourishing

ARCHITECTURE, HEALTH AND WELLBEING

Change over time relationship



Integrated Approach



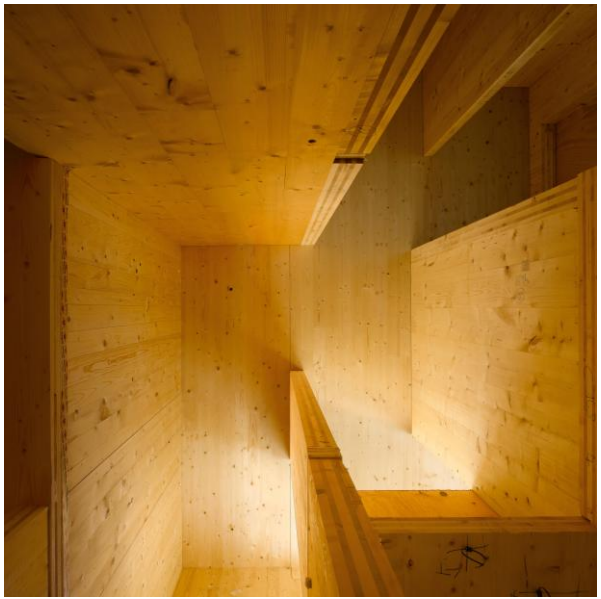
Innovation



Wellbeing

ETHOS AND PURPOSE

High Quality Resilient Buildings



Cross laminated timber



Glulam



Laminated veneer lumber

LOW CARBON STRUCTURE

Engineered Timber Materials



SKANSKA





















Hines

CLIENTS

COMMERCIAL AND ACADEMIC



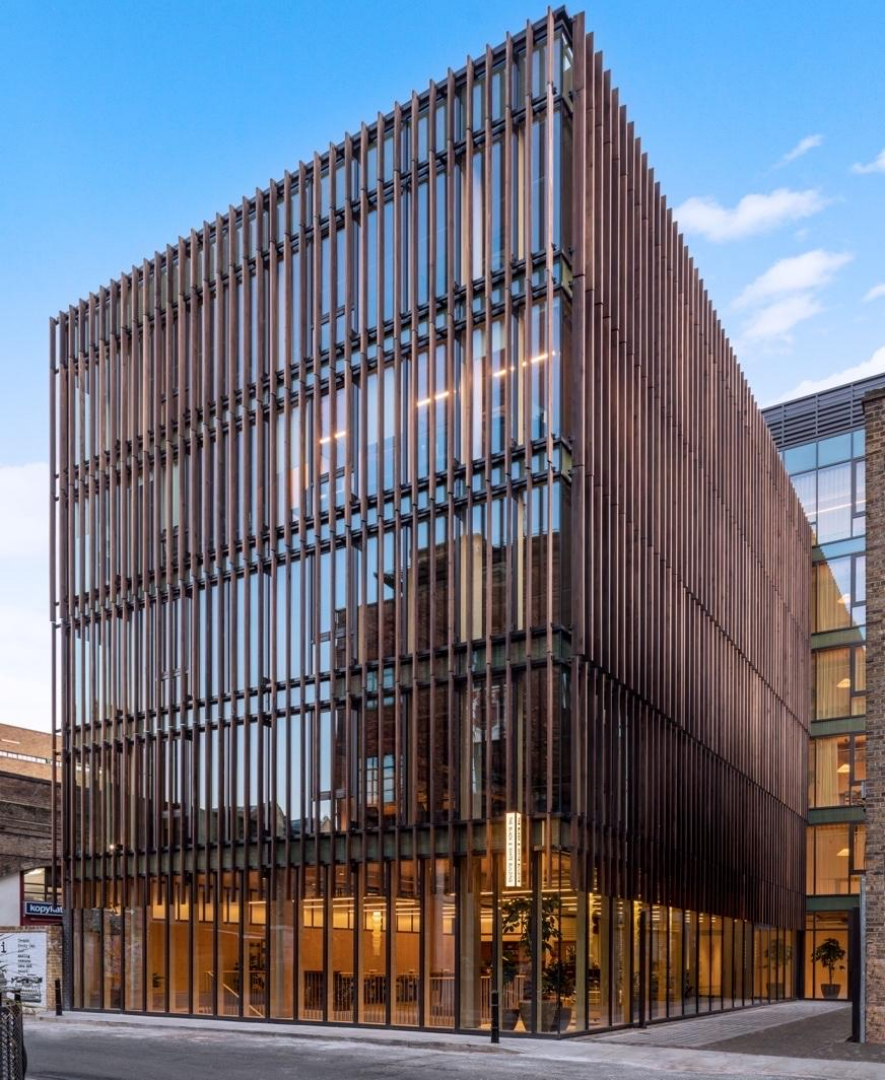
Over 30 Projects Completed in Mass Timber

Current Projects in USA, EU and UK

Homes, Offices And Public Buildings

MASS TIMBER PRACTICE

Research And Design



6 Storeys, Under 18m Threshold

5,000m^2 GIA.

44 Kwh/M2 Energy In Use

256kgco2e/M2 A1-A5 Embodied Carbon

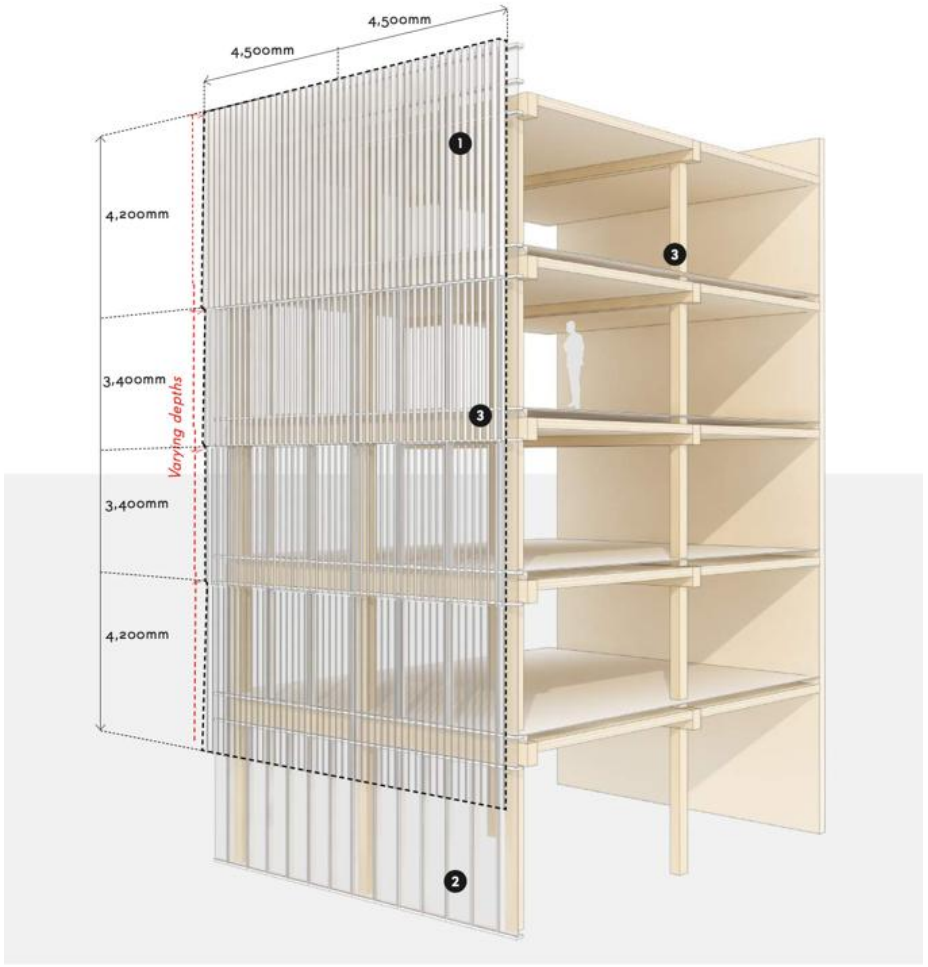
Completed 2022

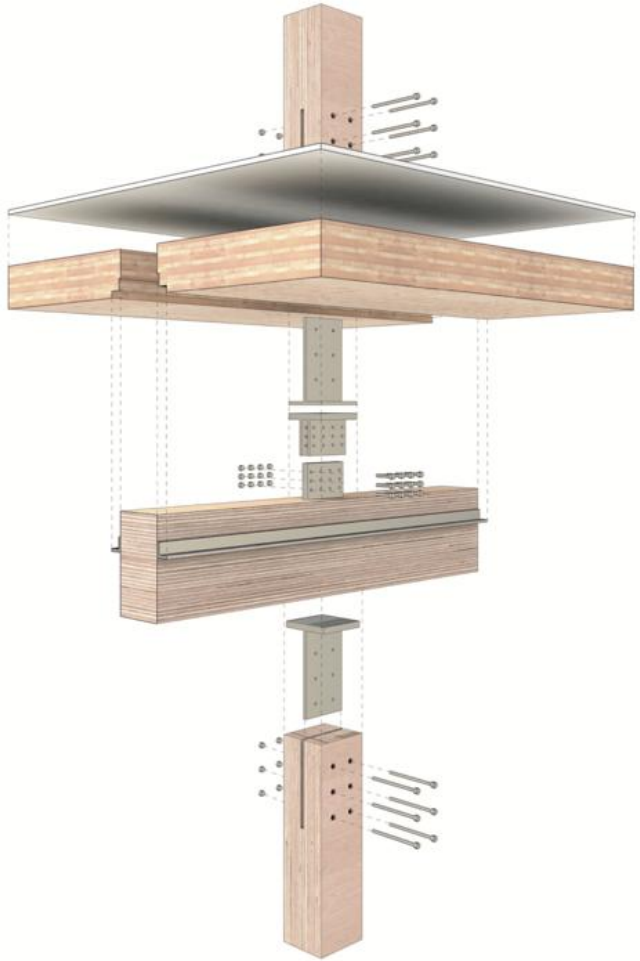
Fully Leased

Higher Returns

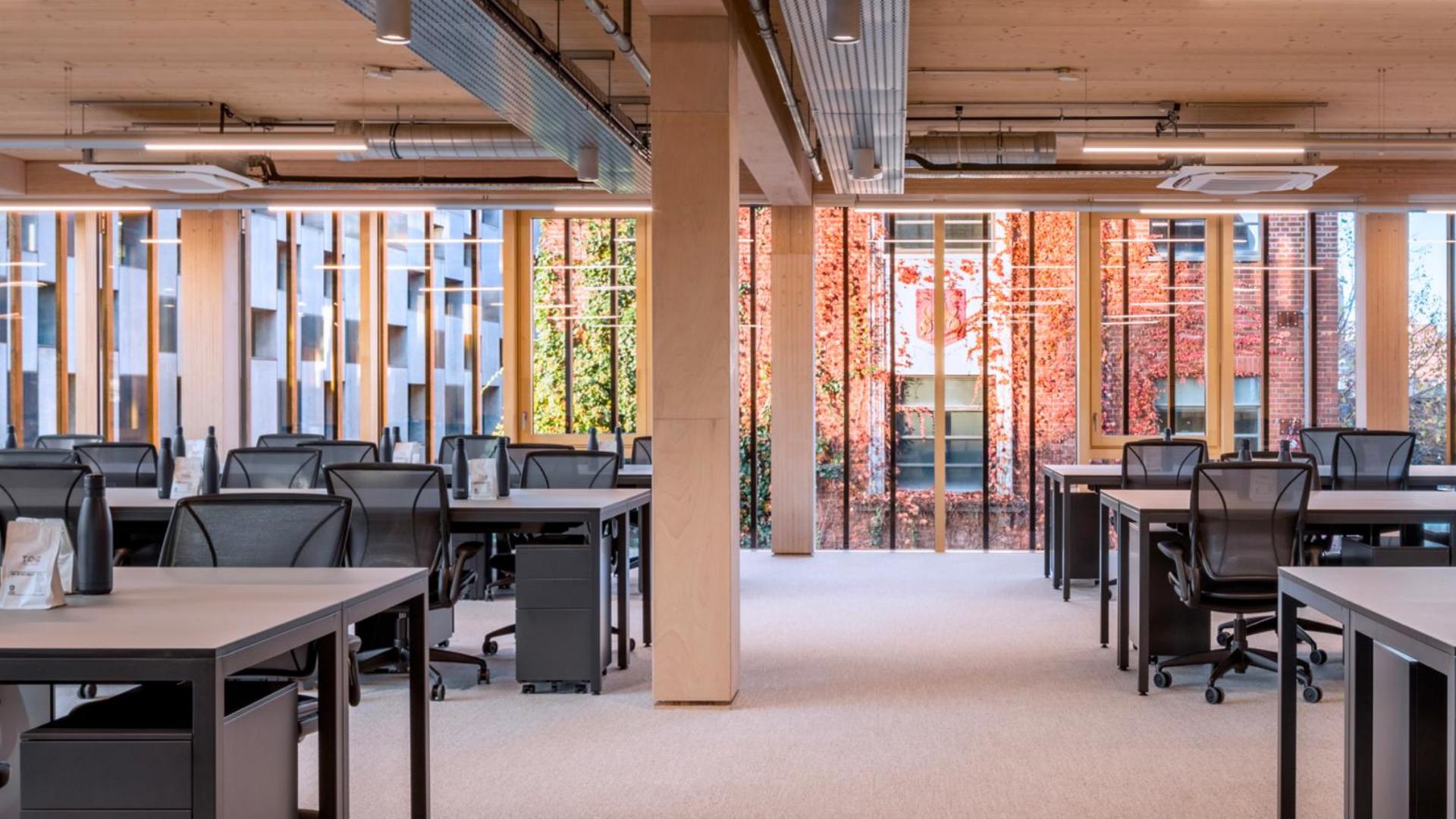
BLACK AND WHITE

Blackstone 2022


4,500mm
4,500mm
4,200mm
3,400mm
Varying depths
3,400mm
4,200mm
1
2
3
3











FULLY LEASED

65% Pre-let

HIGHER RETURNS

ON BUDGET

Cost Equivalent

ON TIME

83 Weeks



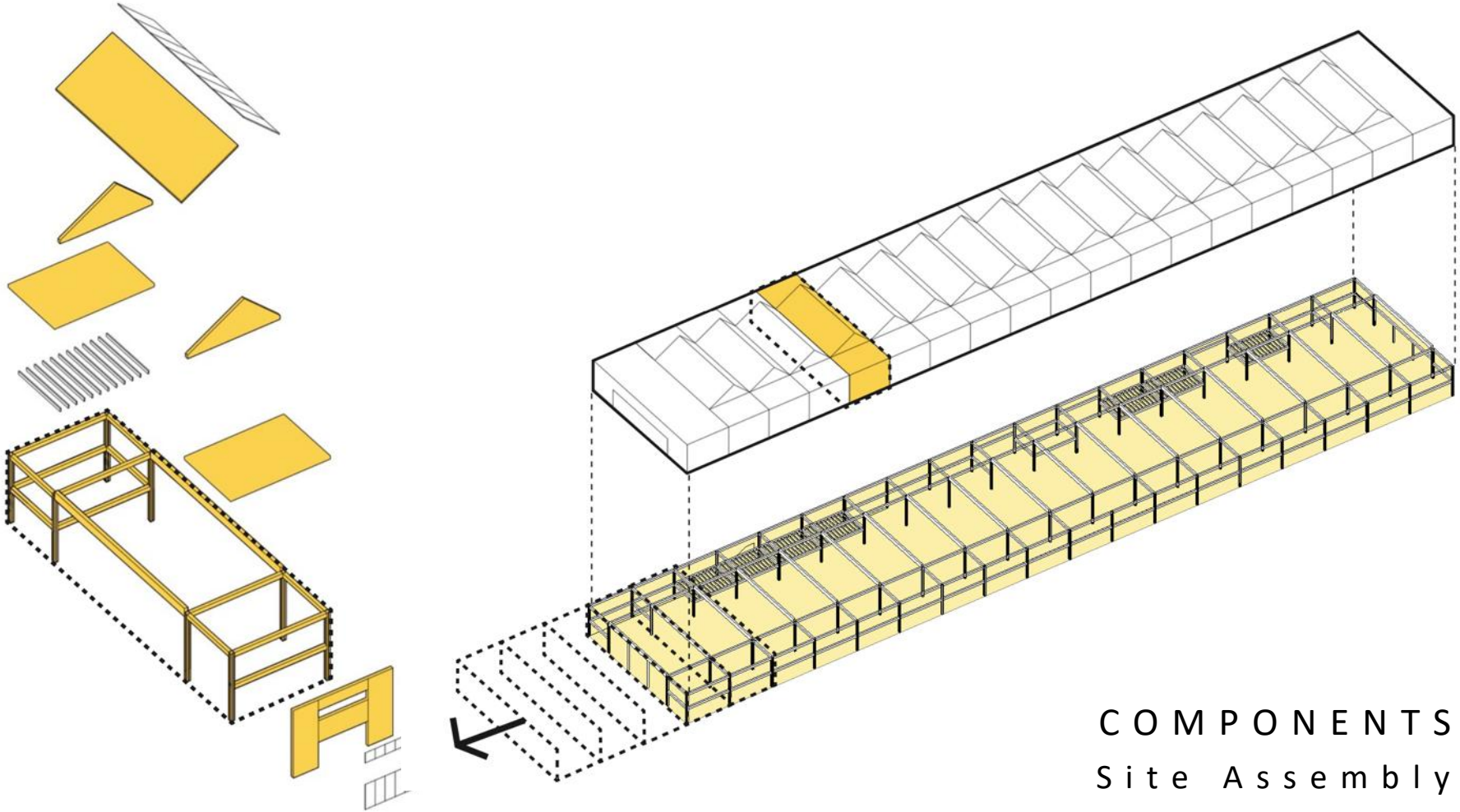
VITSOE

2018



VITSOE SHELVING

Dieter Rams 1960



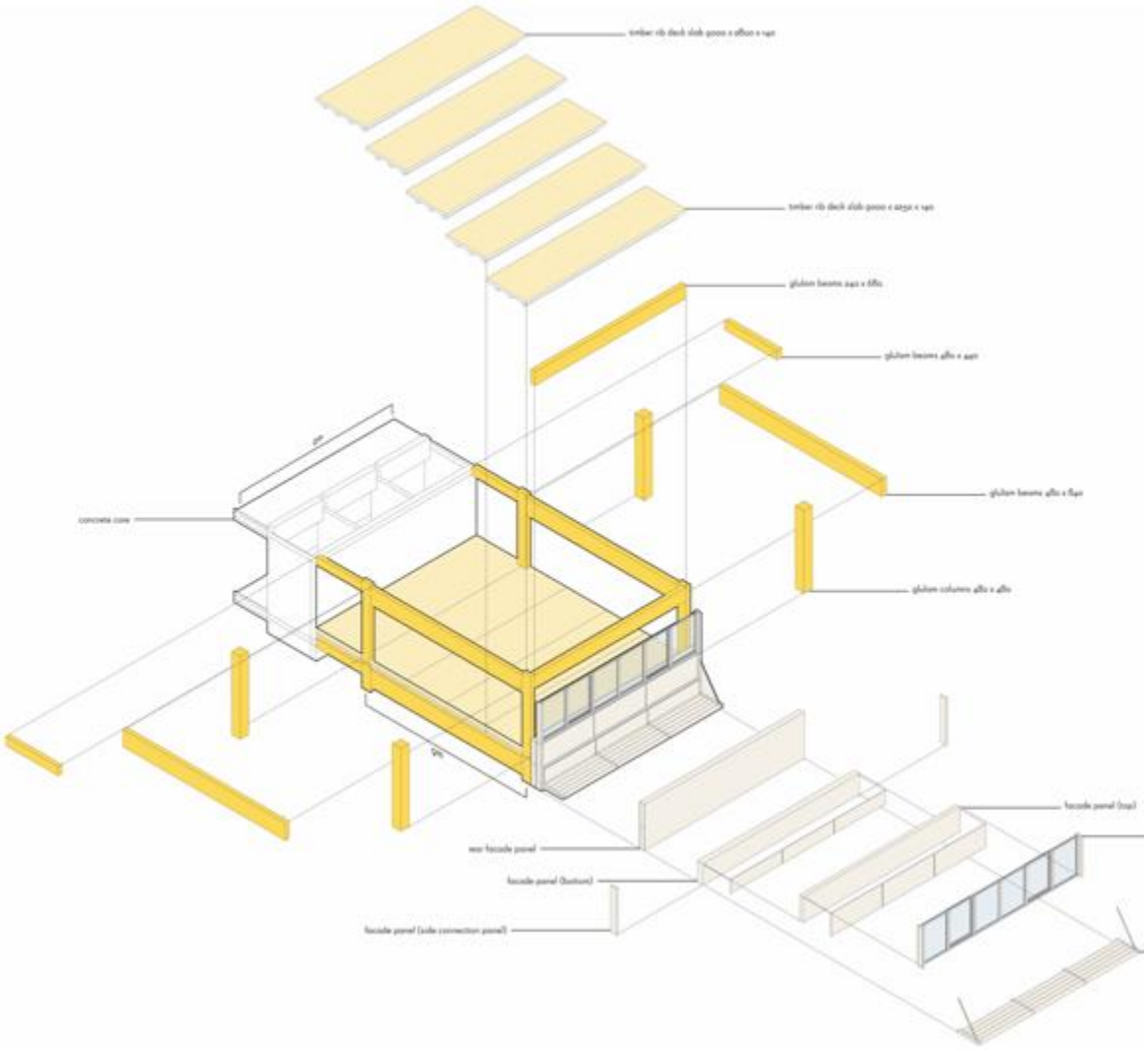
COMPONENTS

Site Assembly




17


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Lendlease Development

Concrete and Timber

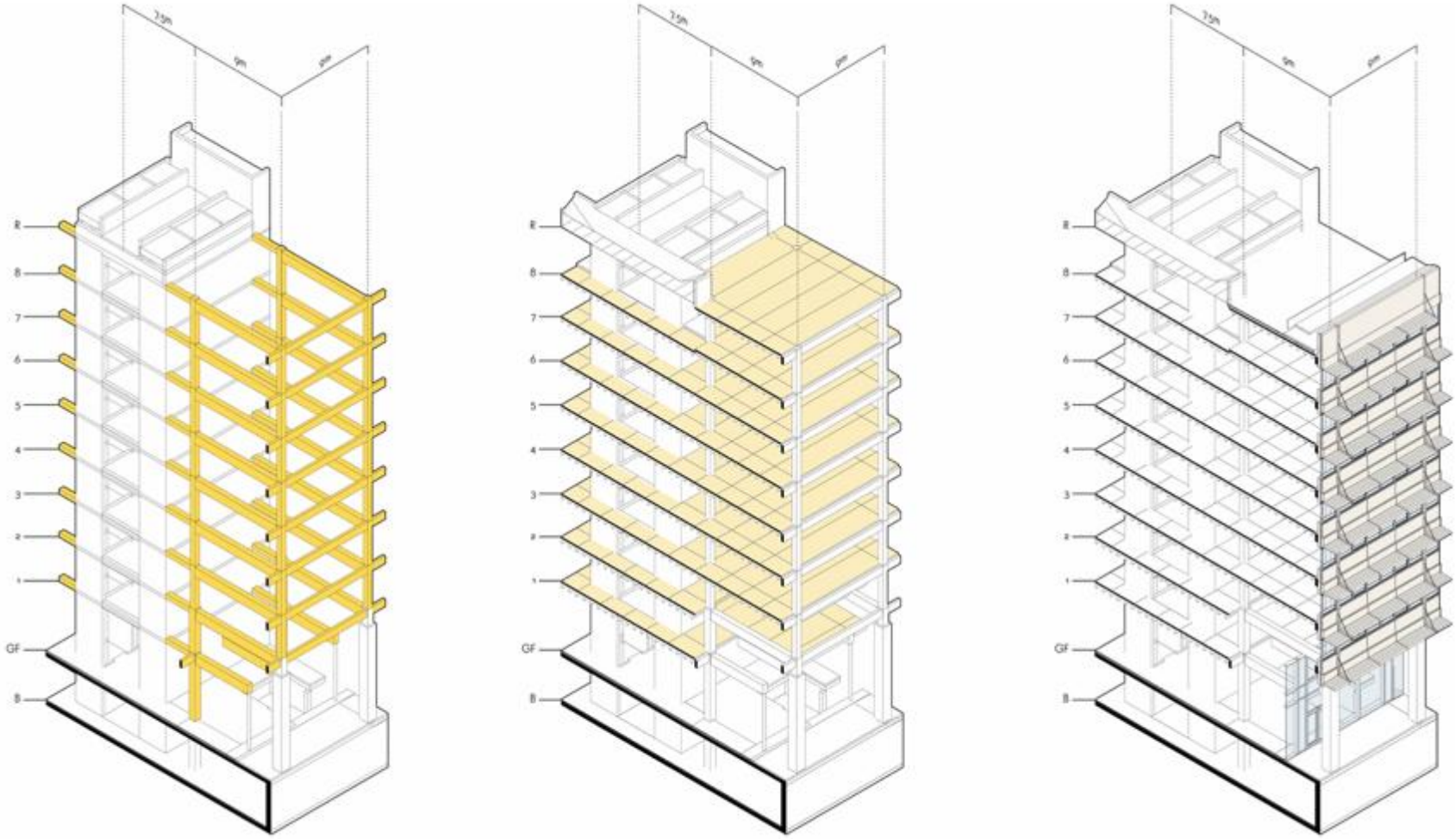
26,000m^2

Office Building

Nine Stories

MIND MILAN

2025


7.5m
9m
9m
R
8
7
6
5
4
3
2
1
GF
B

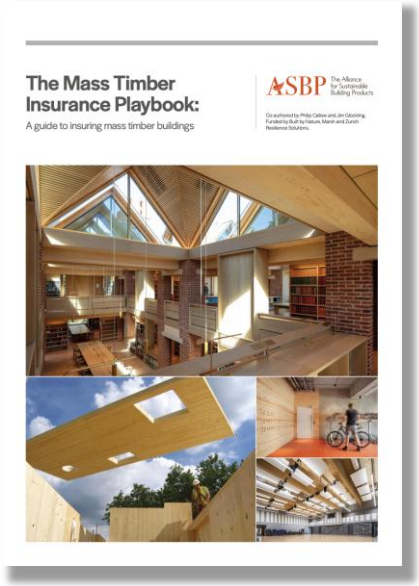












Insurance



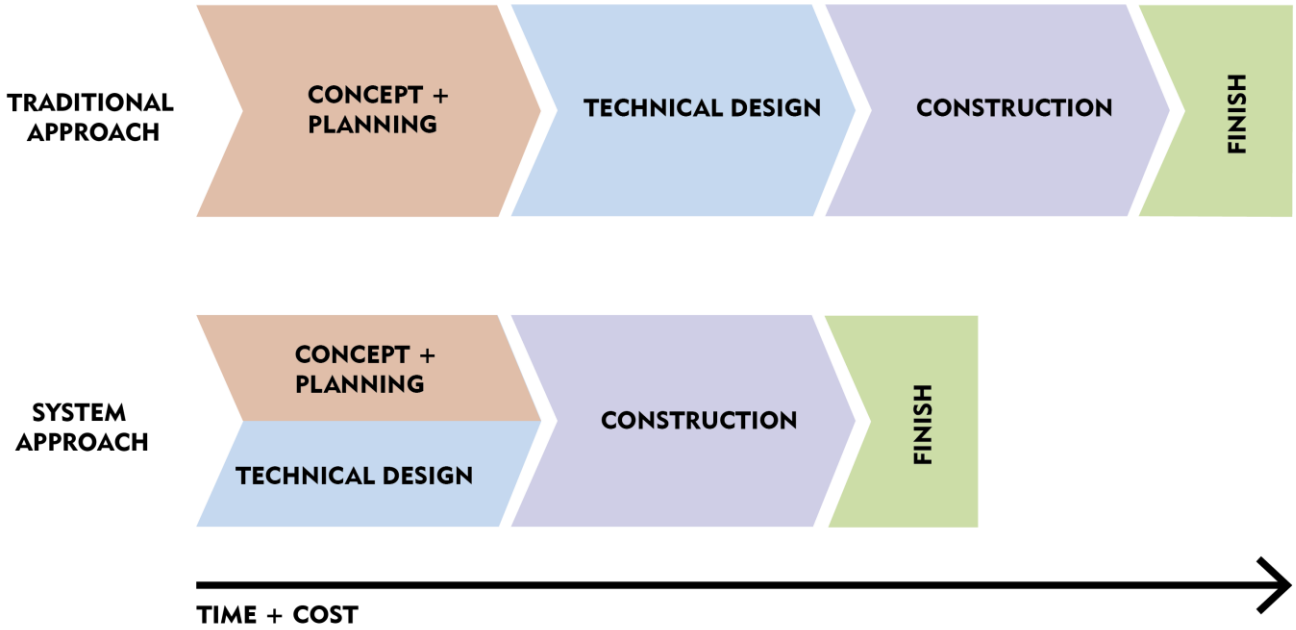
Applied Research



Shared Knowledge

UNDERSTANDING THE CHALLENGES

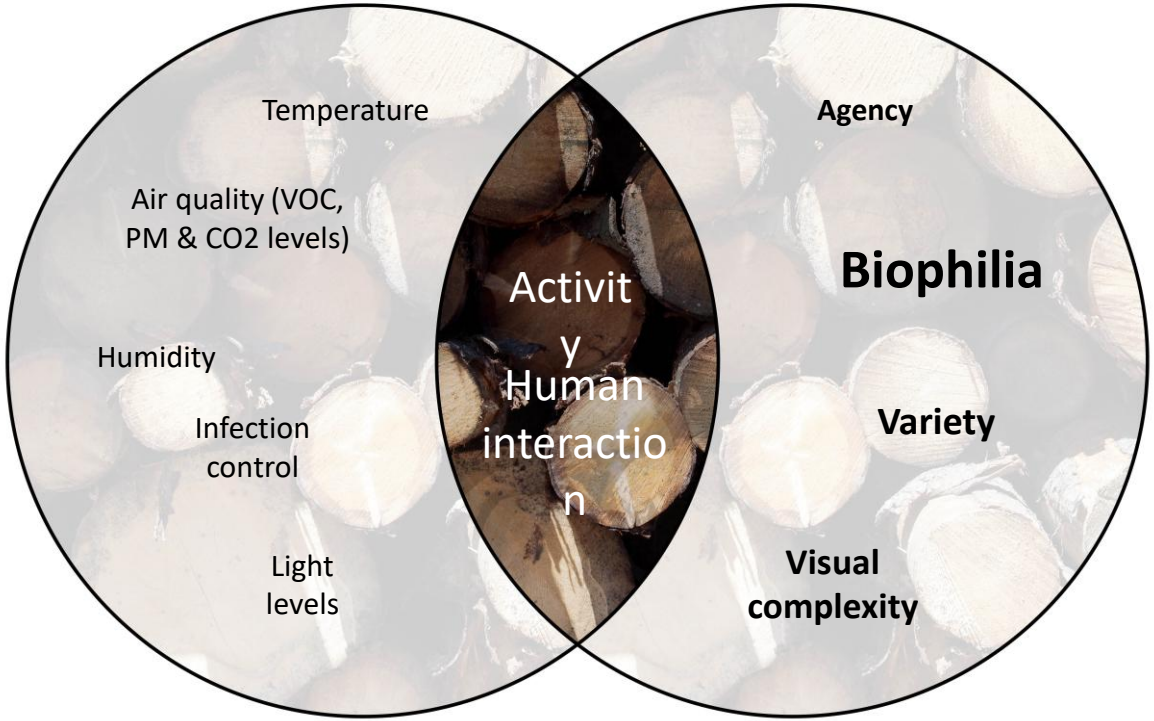
Research and solutions



OPPORTUNITY FOR CHANGE

Upfront design – saves time and increases quality

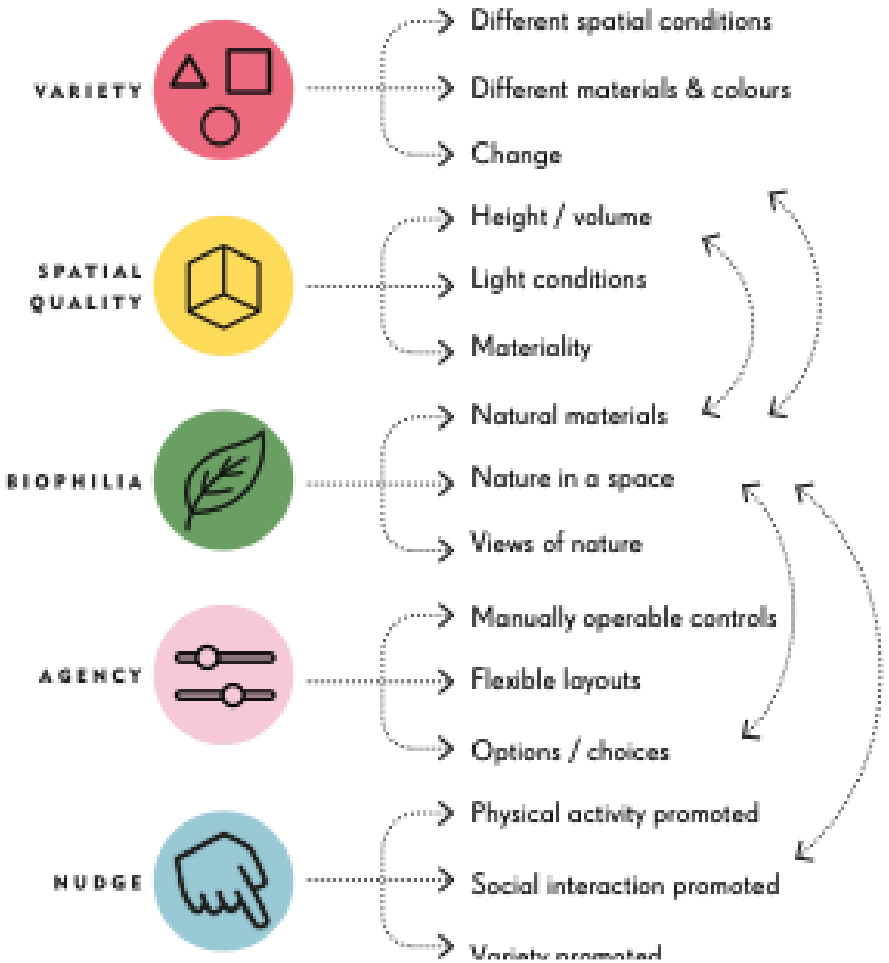
Physical



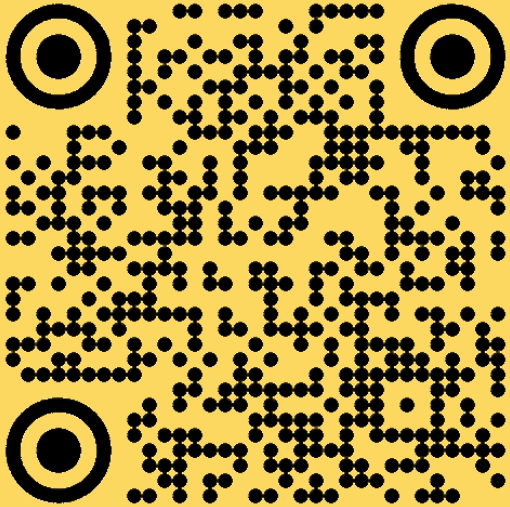
Psychological

TIMBERS WELLBEING IMPACT




VARIETY
Different spatial conditions
Different materials & colours
Change
SPATIAL QUALITY
Height / volume
Light conditions
Materiality
BIOPHILIA
Natural materials
Nature in a space
Views of nature
AGENCY
Manually operable controls
Flexible layouts
Options / choices
NUDGE
Physical activity promoted
Social interaction promoted





WAUGH THISTLETON ARCHITECTS