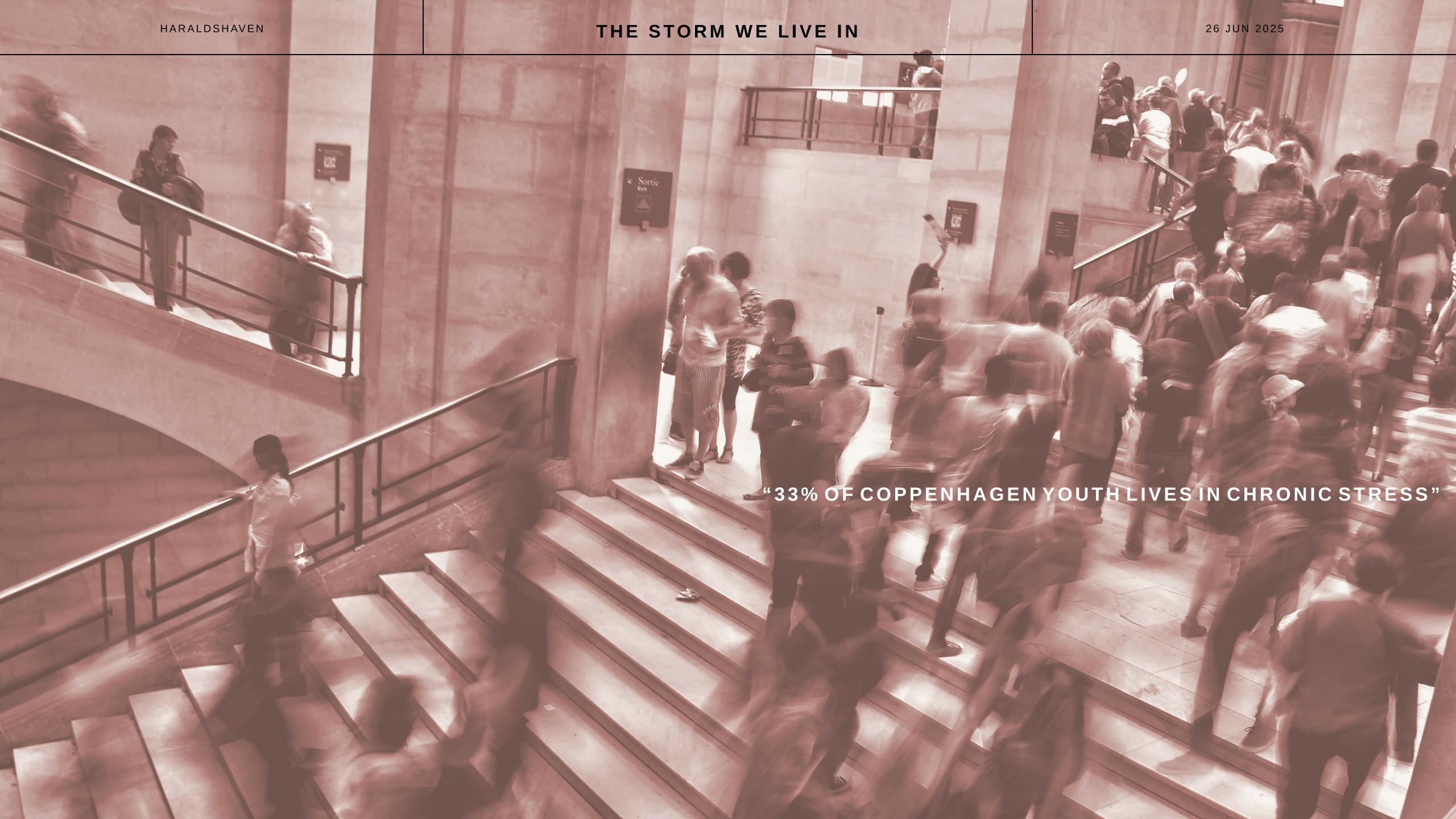
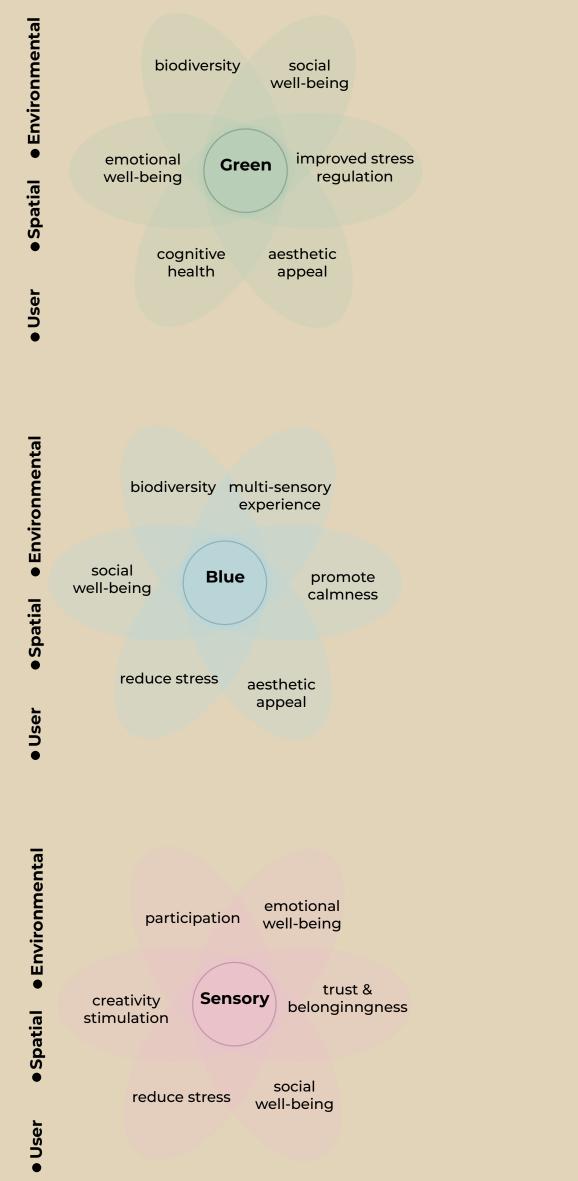
HARALDSHAVEN

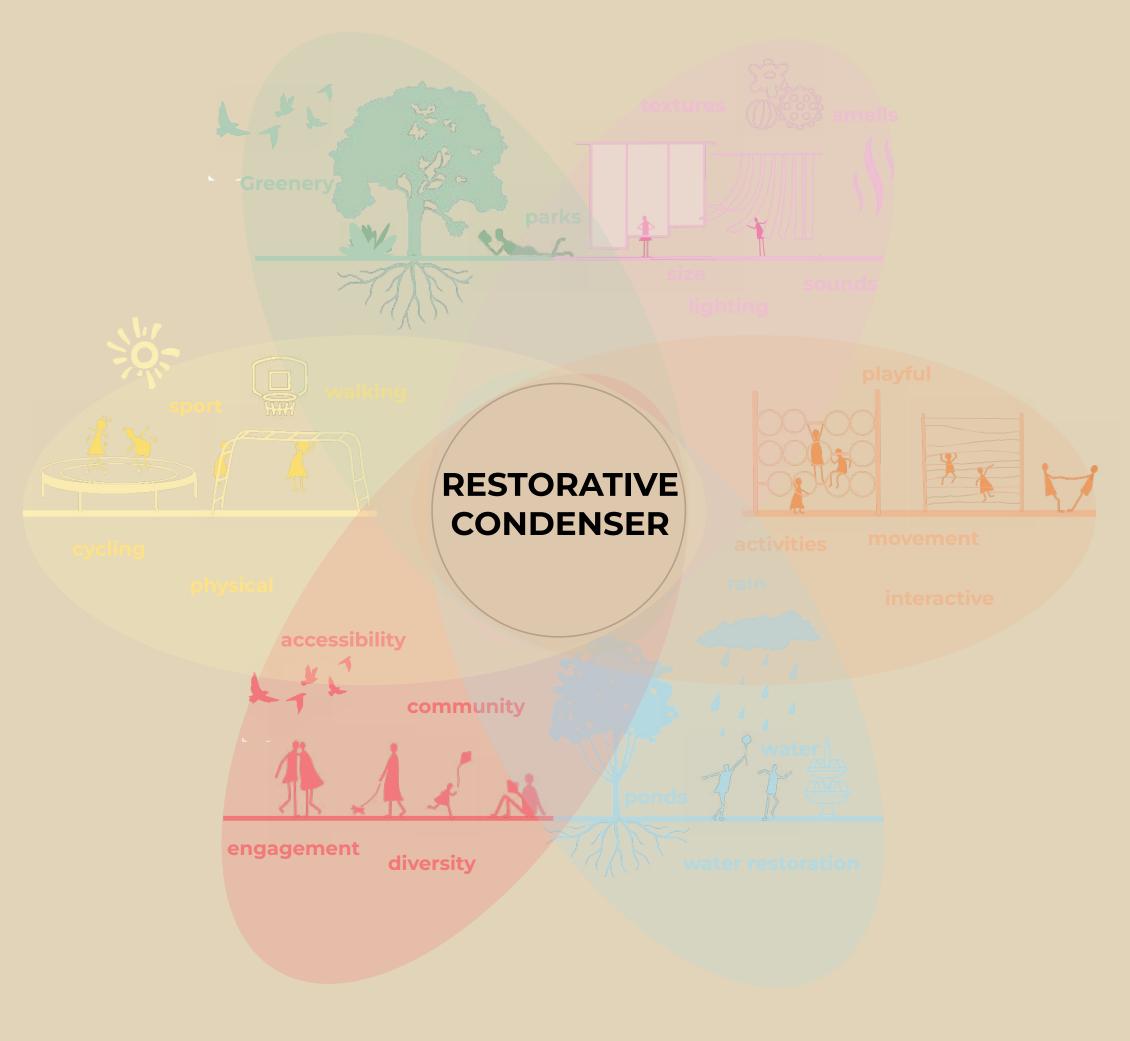
DELFT UNIVERSITY OF TECHNOLOGY ANTONIO CANTERO GER WARRIES SANG LEE

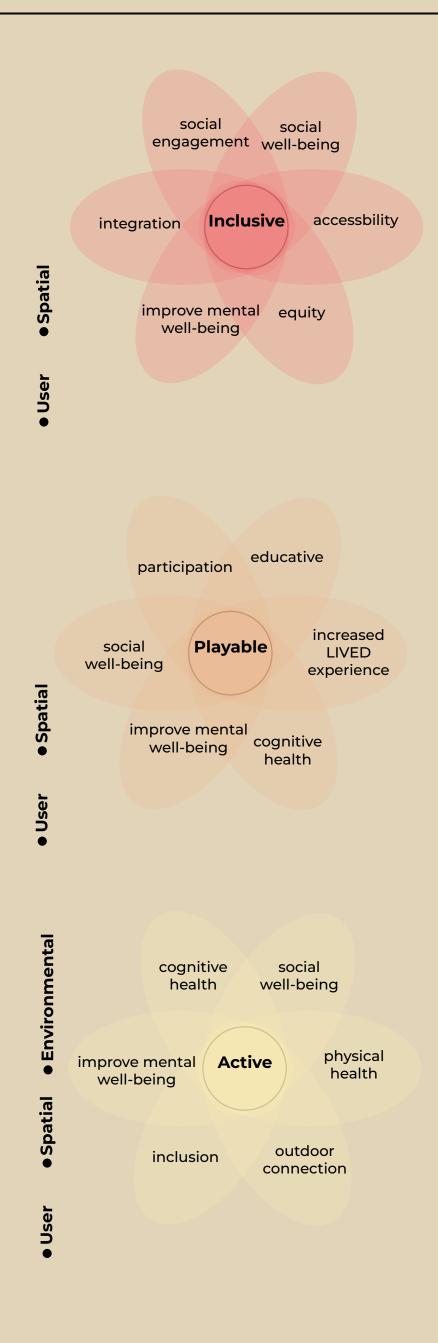




A PALETTE OF EMOTIONS



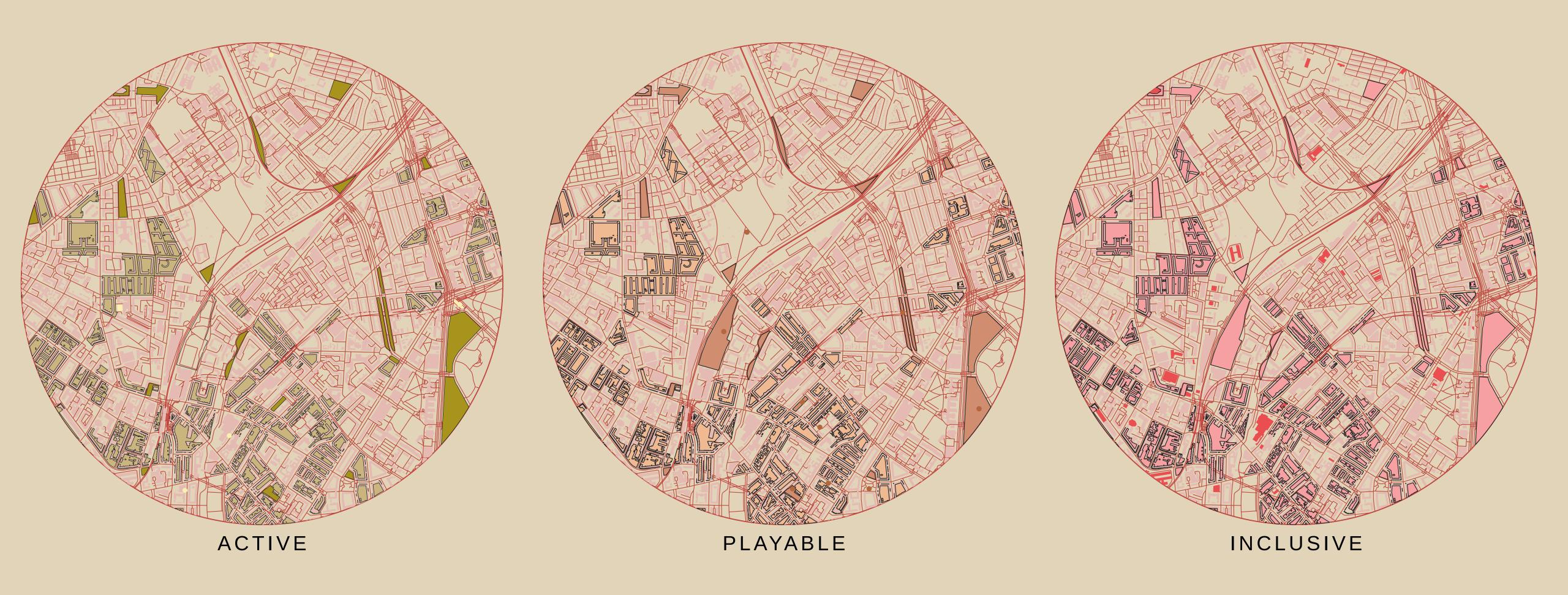




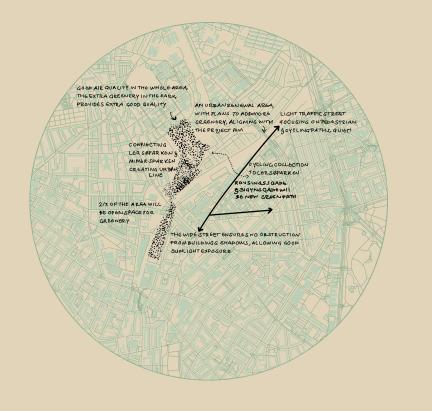
existing greenery existing fauna & flora air pollution current parks evaluation existing blue raini analysis flood analysis water parks soundscapes smellscapes visuals textures tactile elements culinary integration accessibilty &connectivity active public spaces play opportunities inclusive opportunities safety demographics cafes safety night/ day situations walking opportunties health facilities

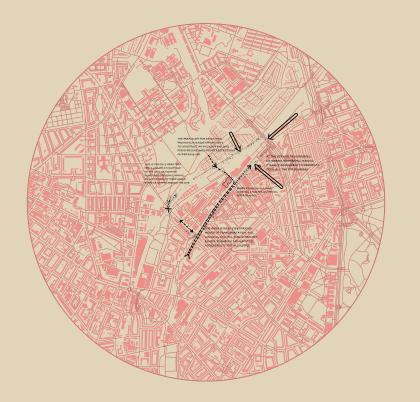
what the site taught me











Nørrebro: layered, loud, alive.



THE IDEA CONDENSED 26 JUN 2025

DESIGN MATRIX DESIGN MATRIX

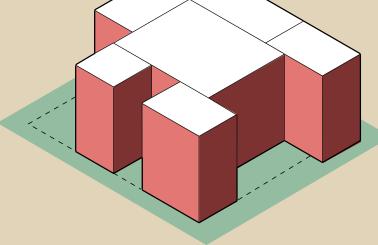
Design Framework for Restorative Architecture: A Matrix for Enhancing Mental Well-Being

Design element	Greenery	Water	Sensory	Inclusive	Playable	Active	Evidence/ Justification	Priority leve	l Notes
serene nature	***	***	***	***	*	*	A longitudinal Swedish study found that "serene" natural environments-characterized by tranquility and natural sounds such as birdsong-had the strongest positive impact on women's mental health over time (Van den Bosch et al., 2015, as cited in Roe & McCay, 2021).	High	Requires regular cleaning & maintenance
30% tree cover	***	*	***	*	*	*	Tree cover of at least 30% was found to be more effective in reducing psychological distress compared to other types of urban greenery, such as grass (Astell-Burt & Feng, 2019, as cited in Roe & McCay, 2021). This indicates that incorporating diverse and complex vegetation typologies can enhance mental health outcomes	medium	Regular tree maintenance (e.g., trimming, monitoring health) is essential for safety and aesthetic quality.
green view	***	*	***	***	*	*	Enhancing visual access to nature can have a meaningful impact on mental health. Examples include being able to see natural elements like inner courtyards or tree-lined avenues from windows (Gilchrist et al., 2015; Pretty et al., 2005; Vemuri et al., 2011).	high	Requires spatial allocation
rich biodiversity	***	***	**	*	*	*	A study revealed that psychological well-being is positively linked to biodiversity indicators, such as the richness of plant and animal species, regardless of factors like age, gender, or ethnicity (Wood et al., 2018, as cited in Roe & McCay, 2021).	medium	Requires ecological diversity enhancement.
climate adaptive	***	***	***	***	***	***	A design that mitigates heat stress, provides shade, and offers protection from heavy rain ensures usability throughout the year. Incorporating features such as shelters, outdoor heating, and cooling systems enhances year-round accessibility to green spaces, promoting inclusivity and mental well-being.		Add shaded seating and weather protection to ensure year- round usability.
green roofs & walls	***	**	**	**	*	*	Enhances biodiversity, improve air quality, and provide visual relief, particularly in dense urban areas. (Roe & McCay, 2021)	high	High installation and maintenance costs.
moving water	*	***	***	**	**	**	Interacting with moving water, such as crashing waves, waterfalls, or fountains sparks high levels of fascination, curiosity, and engagement. Its dynamic and multisensory nature promotes attention restoration and helps reduce stress (Roe & McCay, 2021).		Maintain constant water flow to avoid stagnation.
		7	64				165		

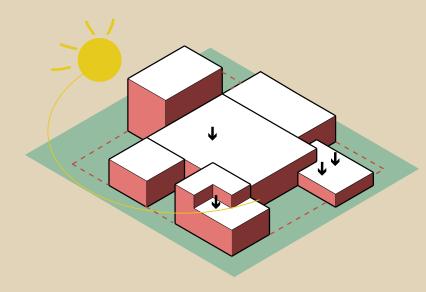
164

DESIGNING FROM EVIDENCE

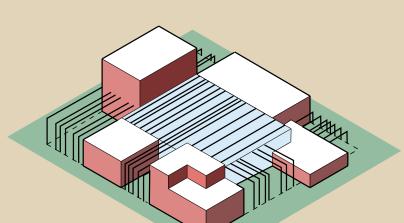
a silent mass, unware of its context



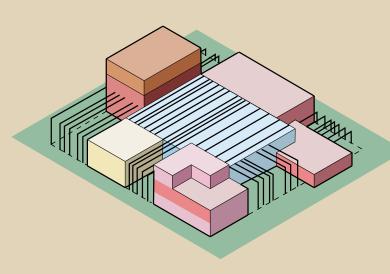
carved open to welcome access & light



a heart space invites light, people, & air

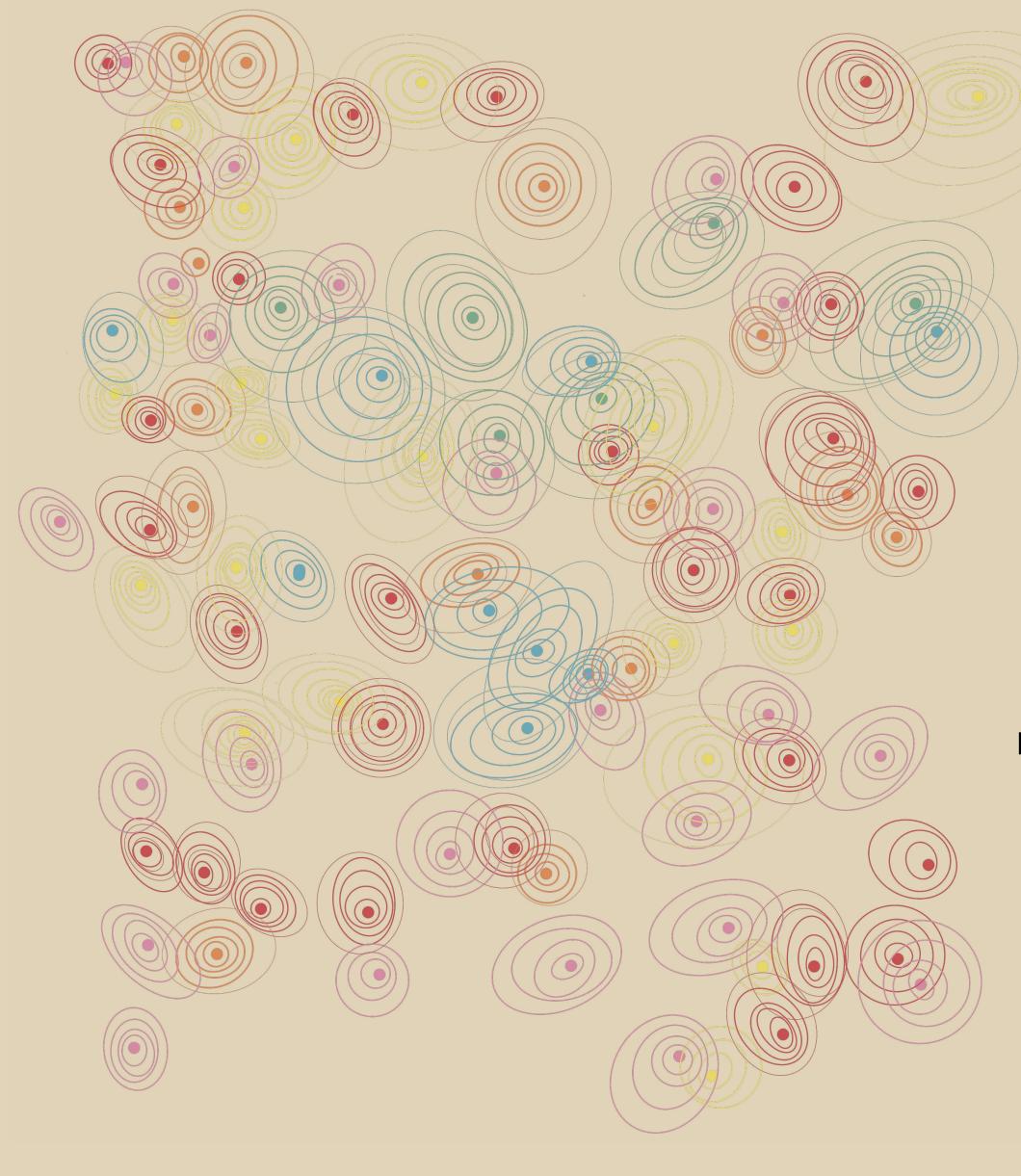


shading, vegetation, & porosity define edges



A BUILDING THAT CONDENSES CARE!

a hybrid building that condenses care



HIGHS TO PLAY, LOWS TO REST

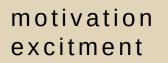






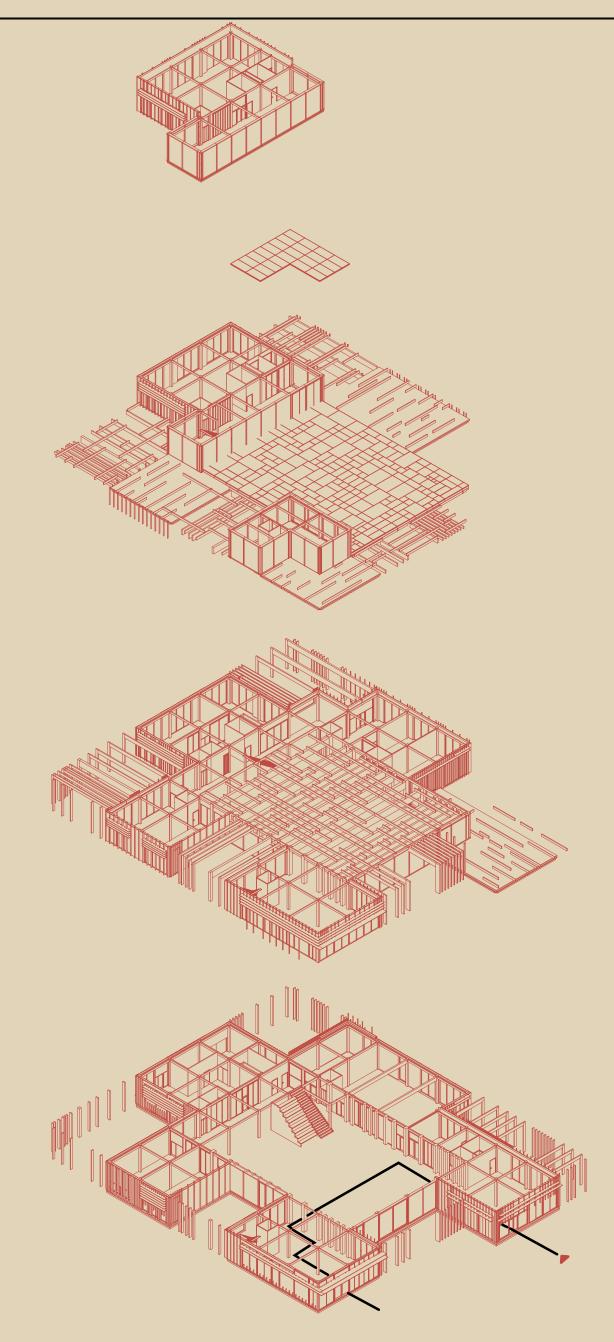


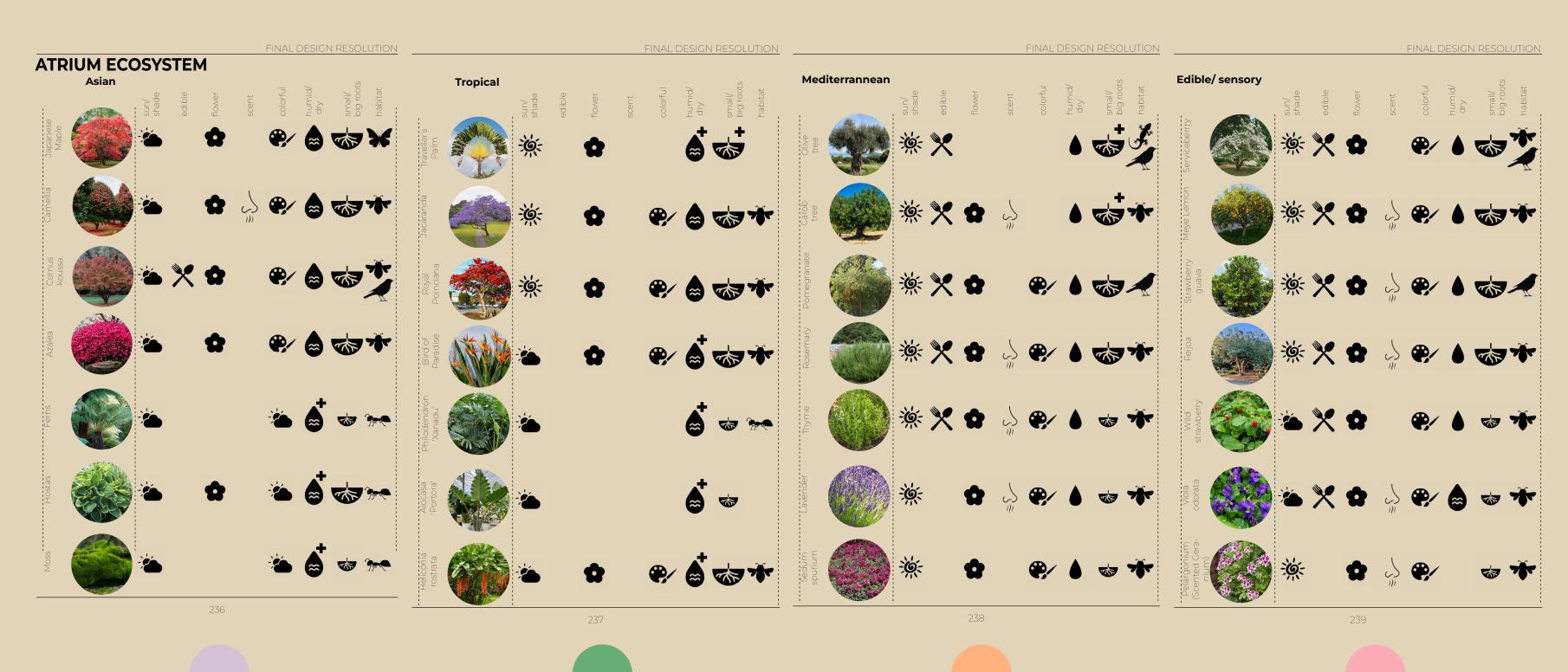


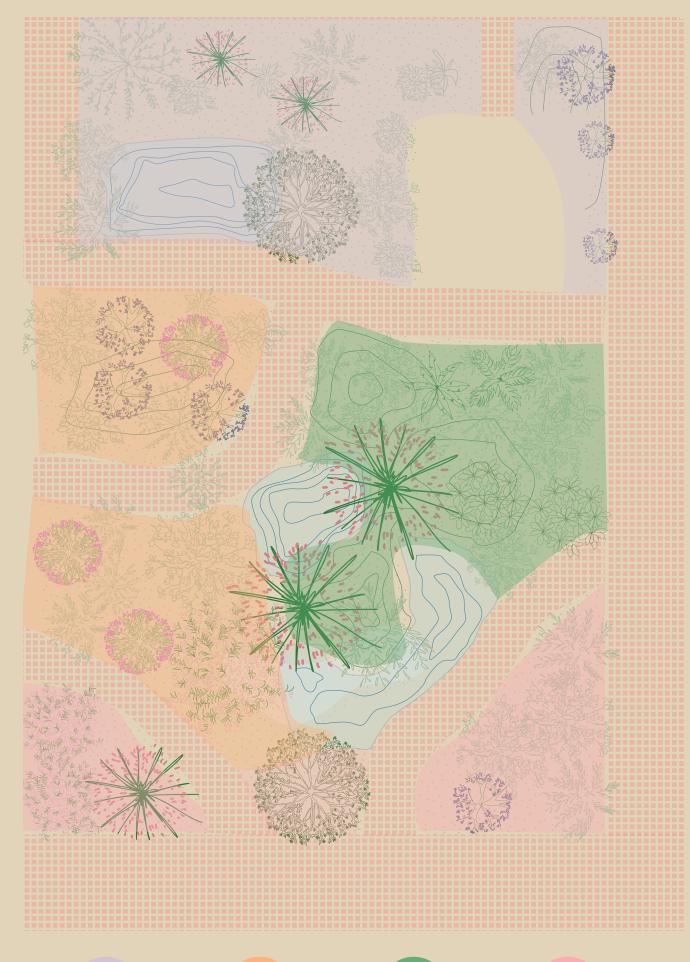






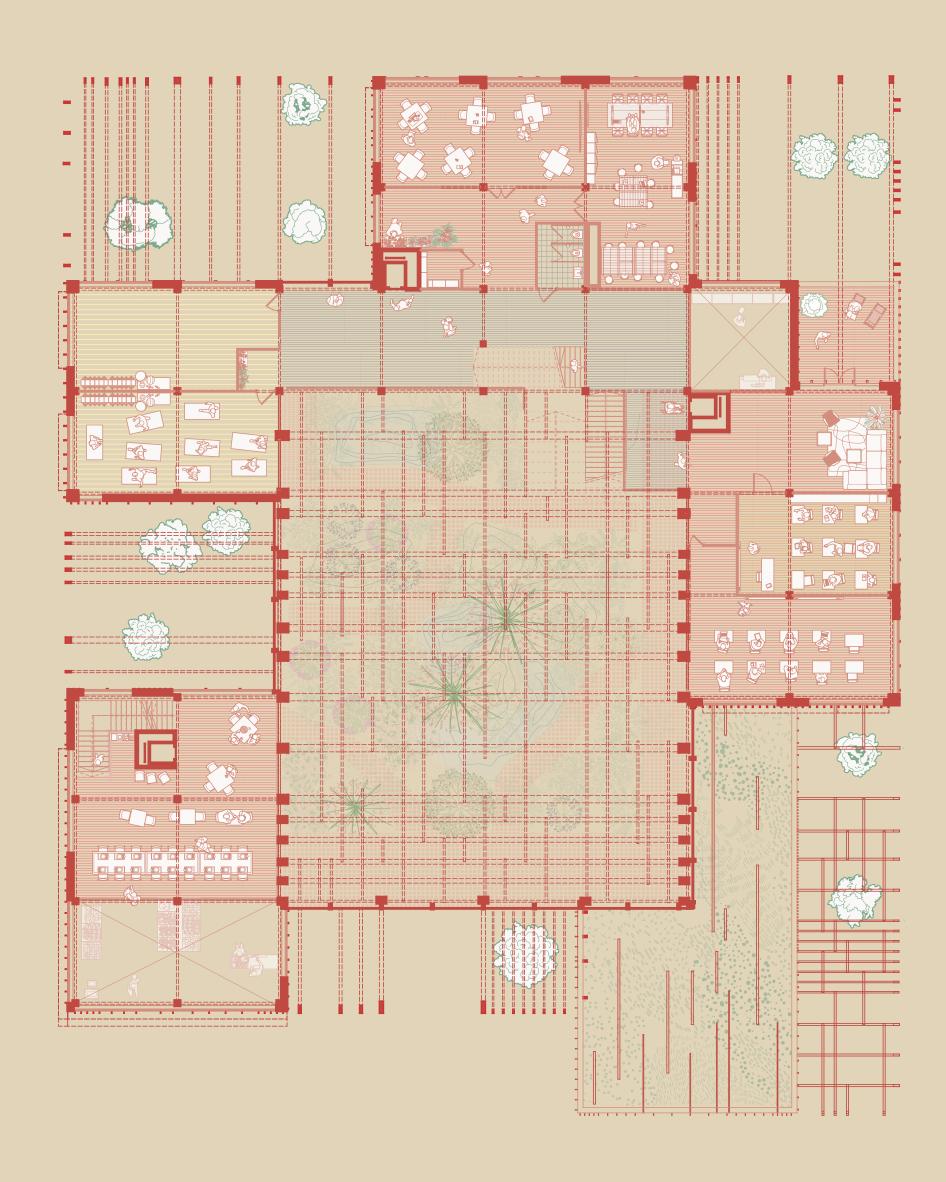


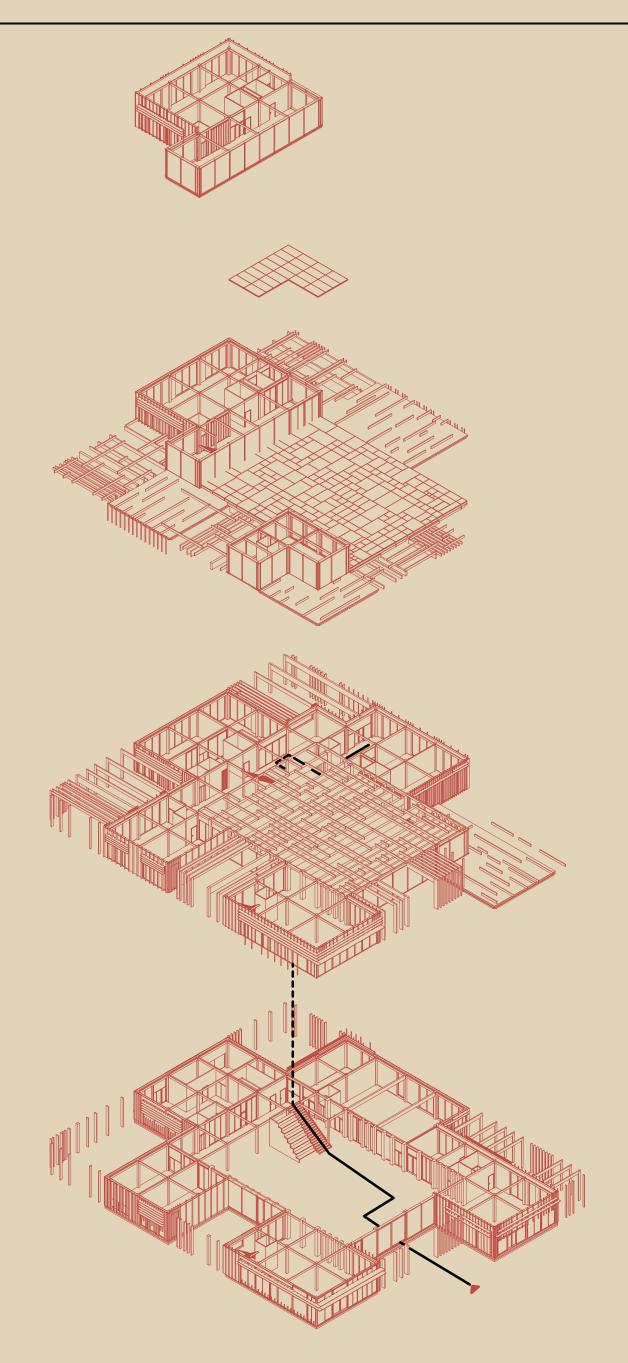




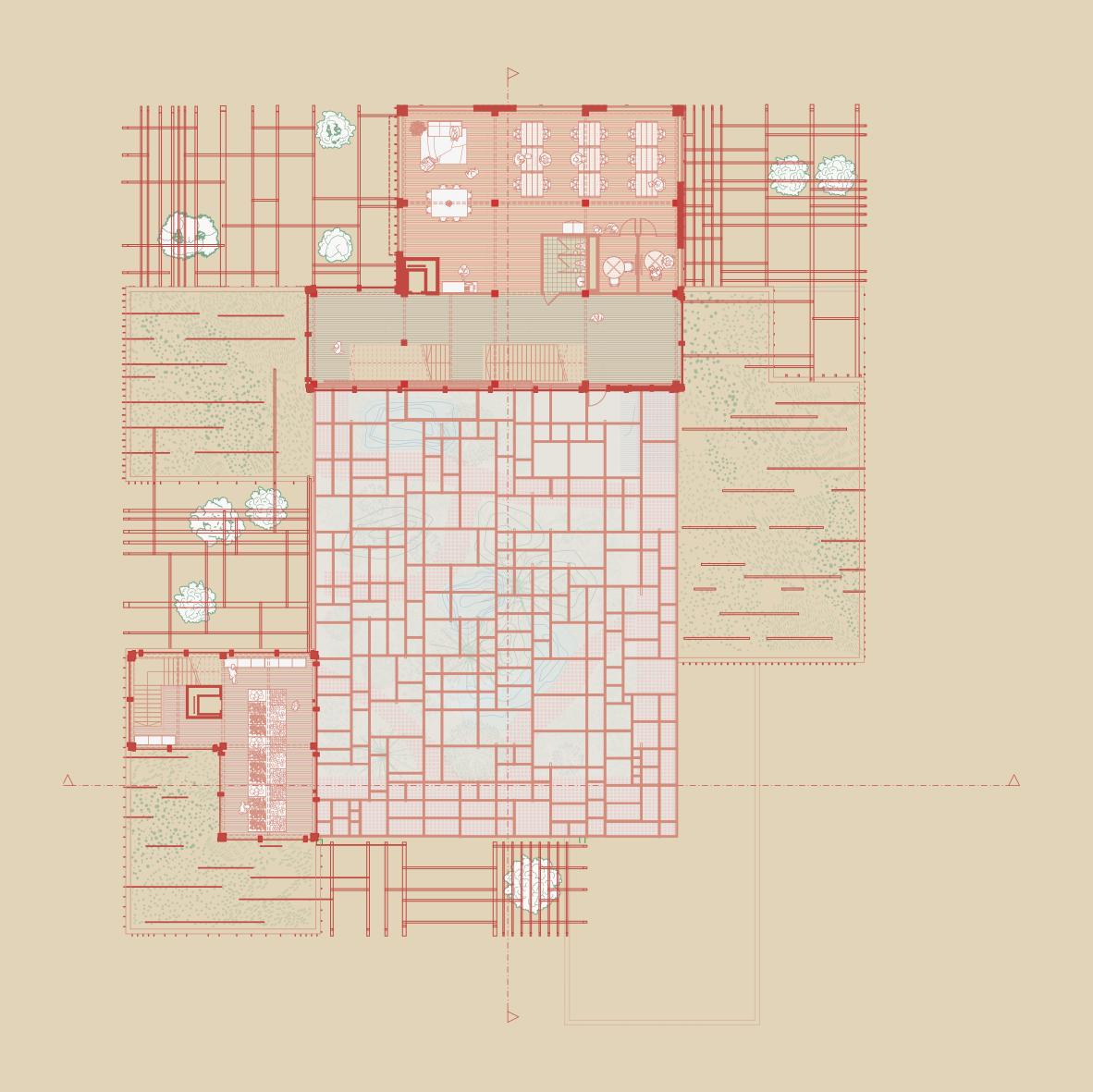


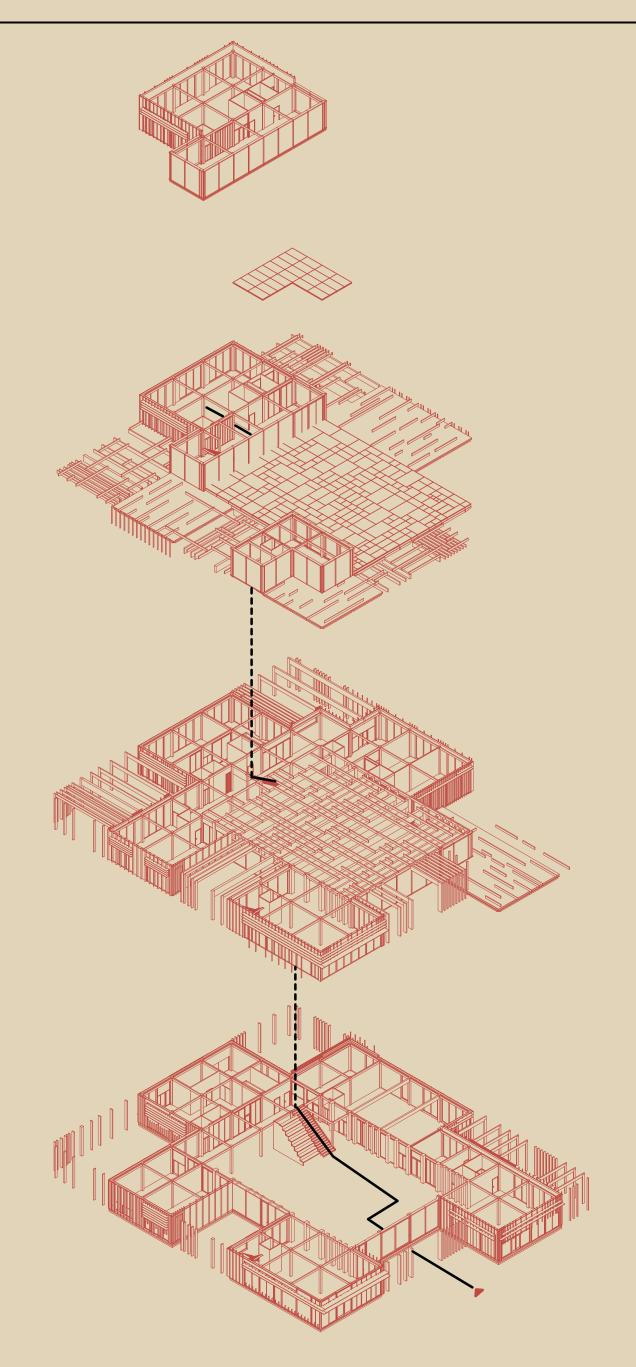




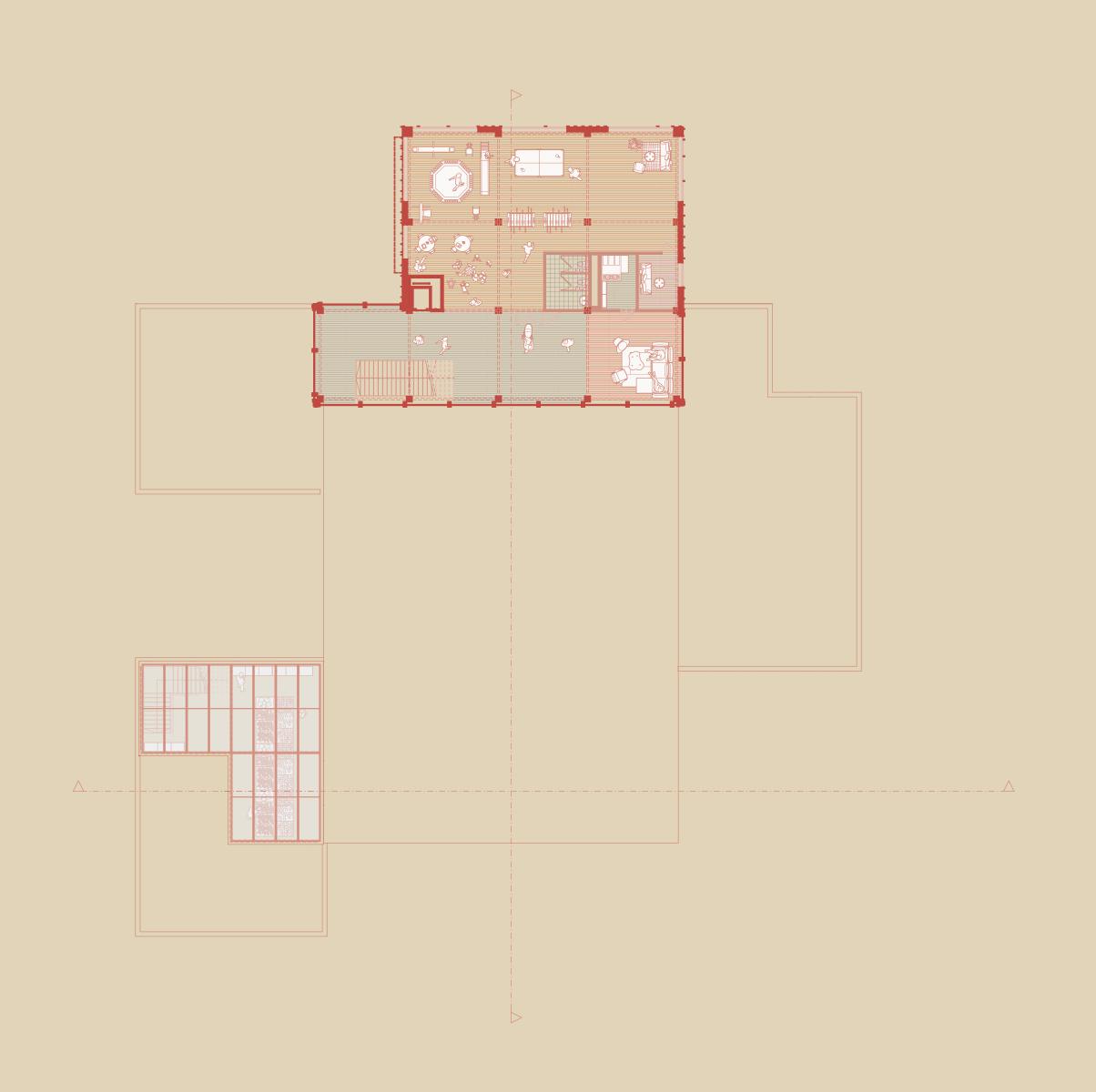


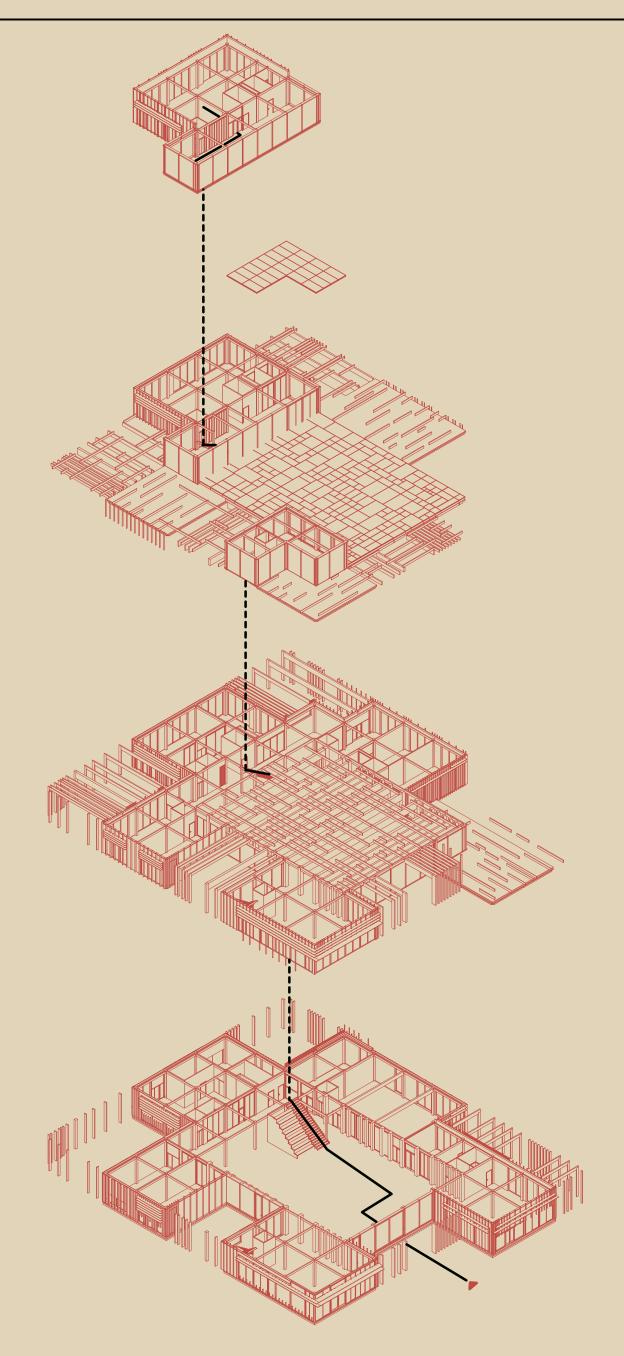




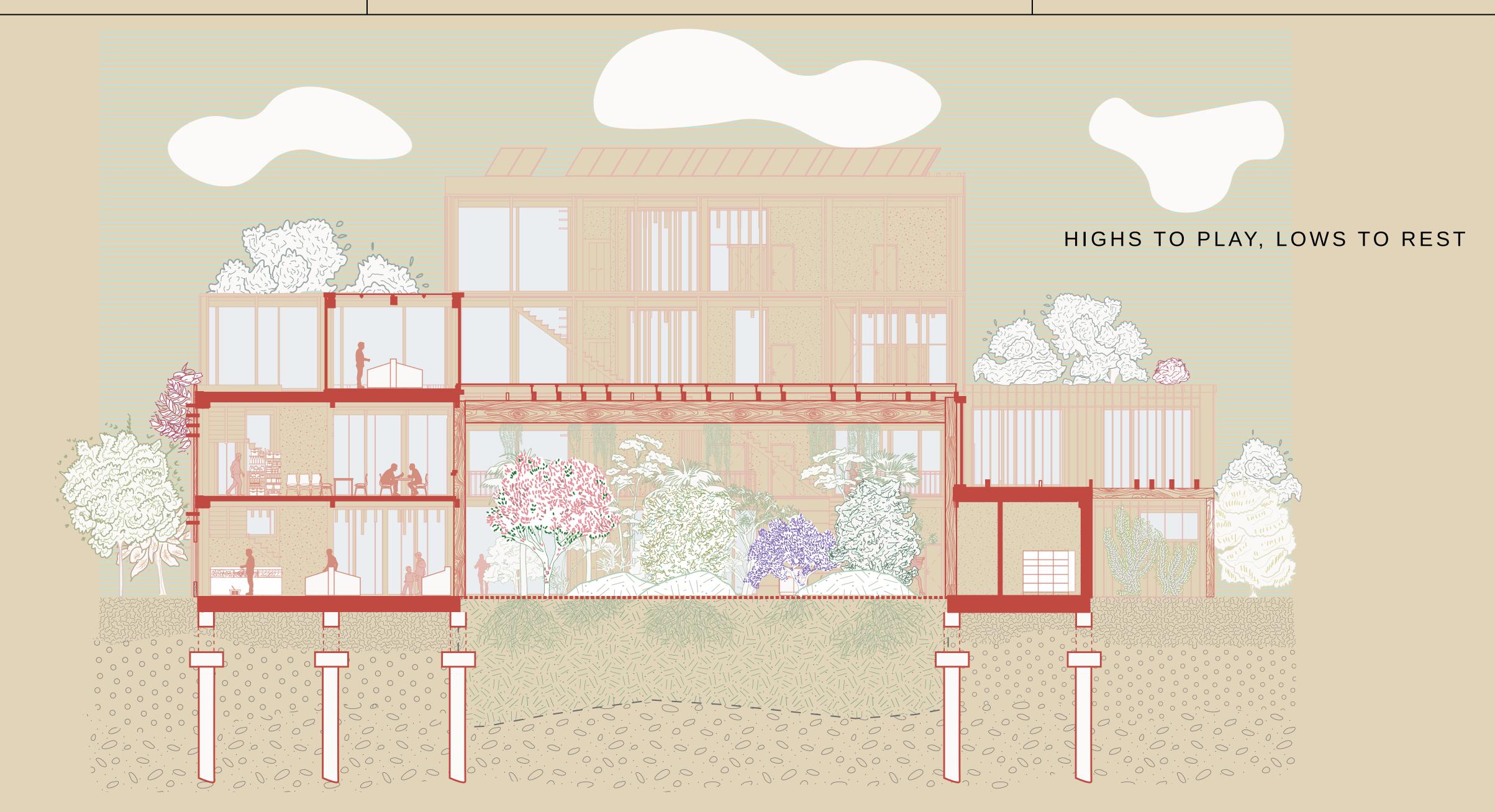


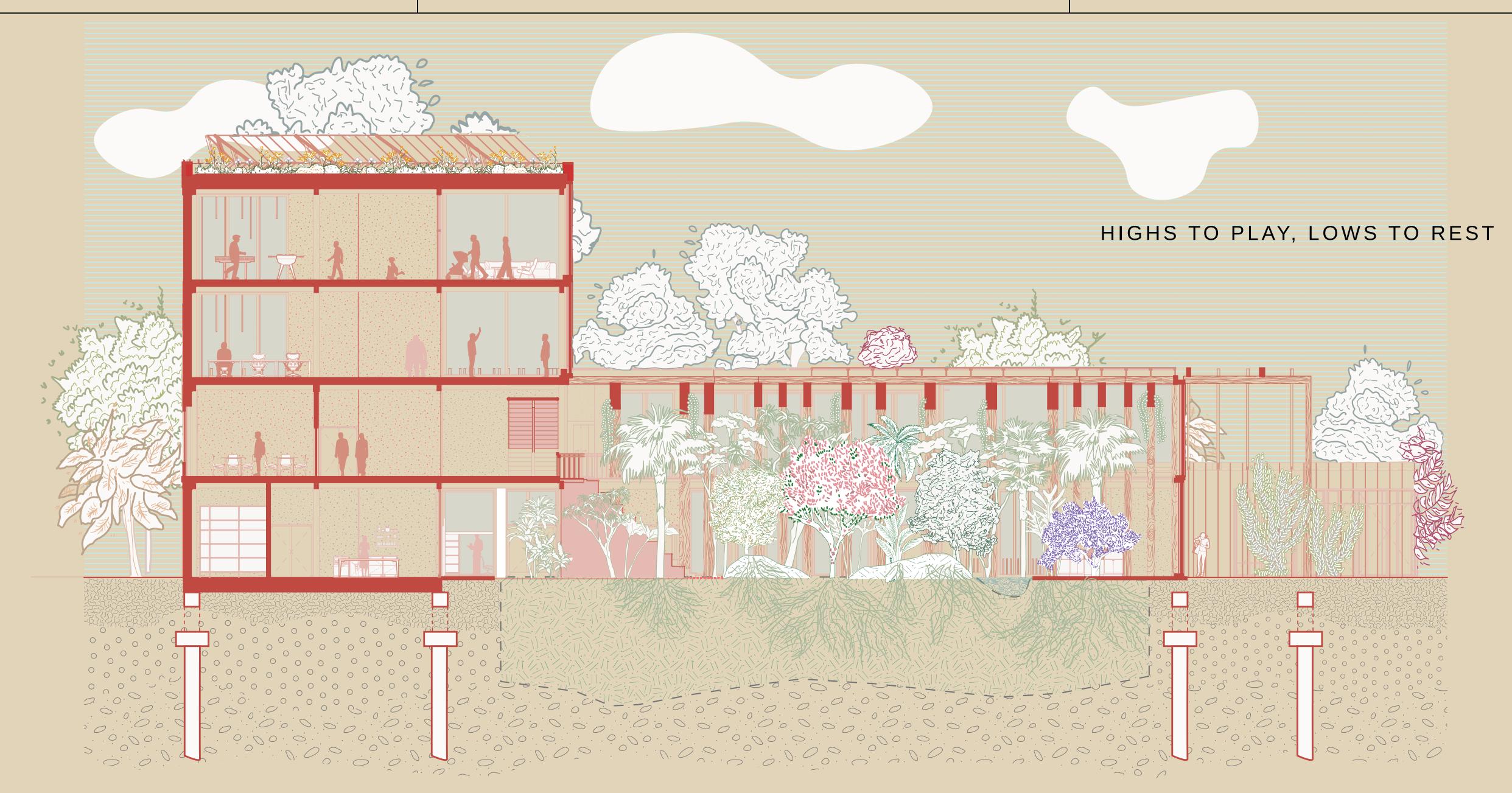


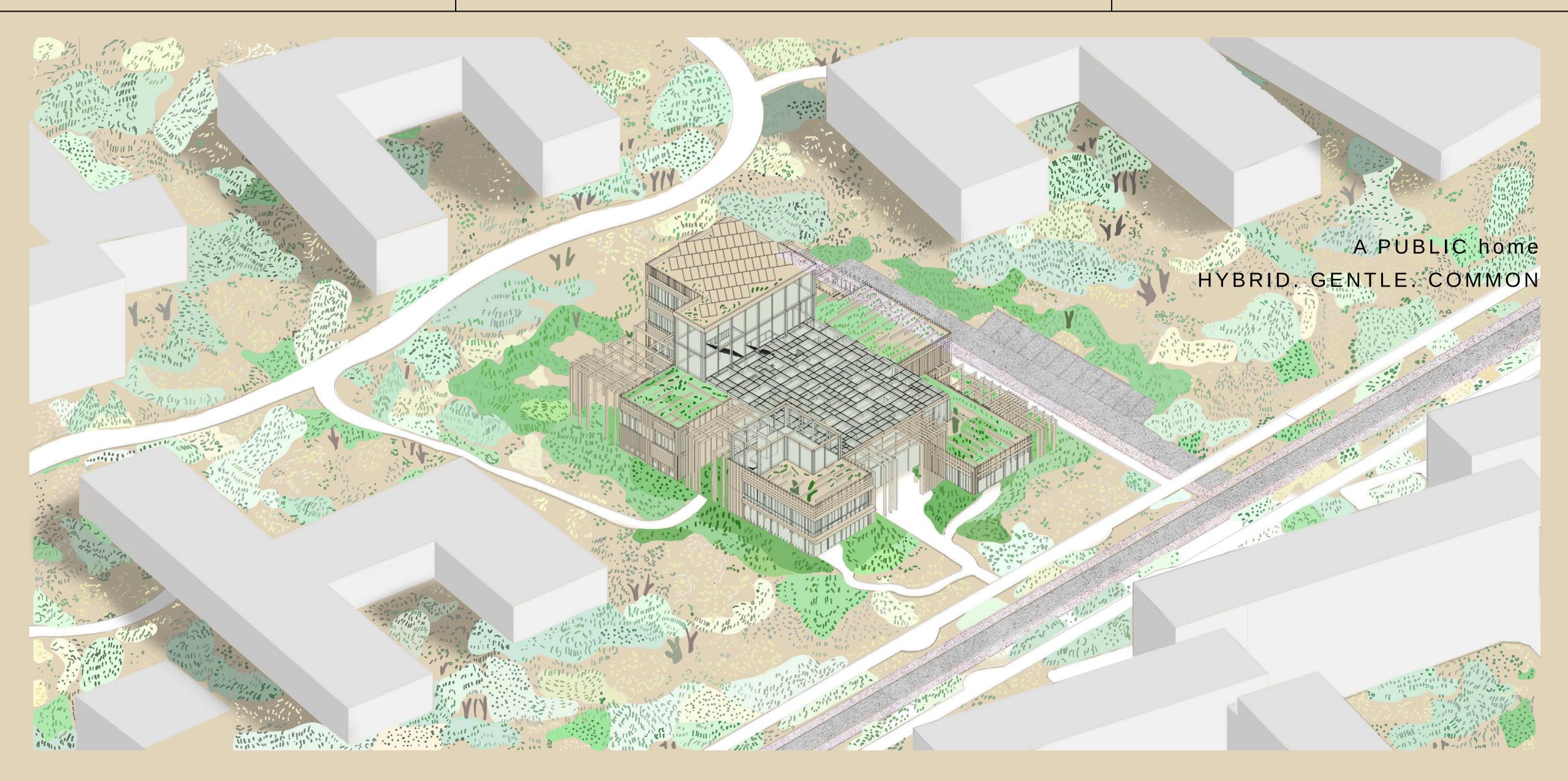


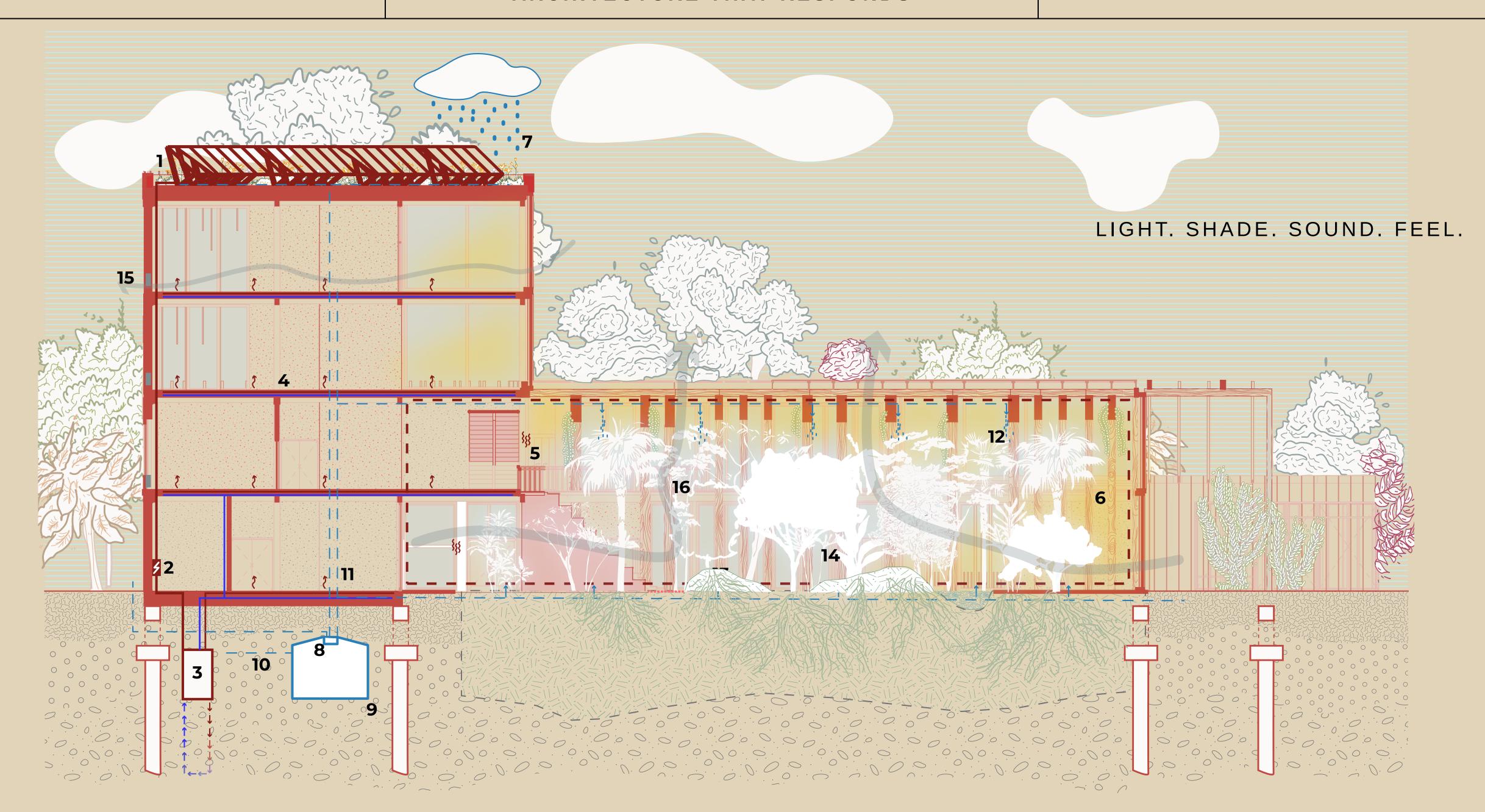


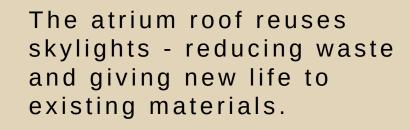












The façade shades direct sun light, minimizing cooling

Flexible, open spaces extend the building's lifespan by adapting to future social and cultural needs.



LESS WASTE

RESOURCES
RITUALS
RESPECT
N CYCLES

CIRCULARITY AS A COMMITMENT



Nordic Lunawood slats were chosen for proximity and minimal transport emissions - sourced from FSC-certified forests.

demand and energy use

across seasons.

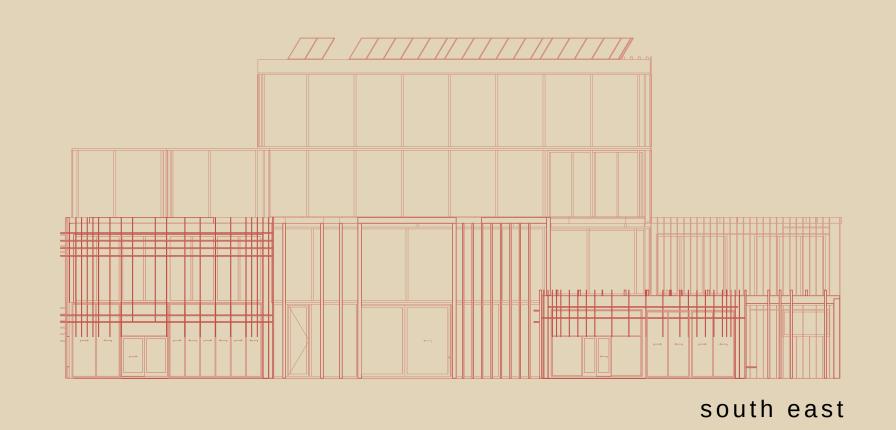
The roof & the atrium are not just green — they're alive. Designed to host birds, insects, and microecosystems.



LANOTIONAL EFFECT

A wooden load-bearing structure and bio-based insulation define the building's low-carbon skeleton.





FILTERED. FELT. ALIVE





C1

Sun context of the day

Late afternoon summer sun (17:00–21:00) enters at and intense reflections in a low angle (~20-30°)

Light is soft but can cause Winter sun is weak but may long horizontal glare if not still offer passive gain if

Winter sun: almost no direct exposure — mostly ambient daylight

00 Sensory room

Concept: enclosed, private & immersive

Window/s: none

mood: Enclosed, private, focused - supports sensory isolation

Horizon- tal slats start at	none
vertical slats	very dense 188x19 spacing is 193
Result	No light, dense & private

01 Studio

⊞ Window/s: Large windows

mood: Dynamic, open, warm in afternoon; calm and clean in the morningfeels active

Horizon- tal slats	none
vertical slats	42 mm × 68 mm / spacing: 800 mm and 256 where there are not any windows
Result	Play with staggered slat heights if view is to play- ground – feels active

BI

Sun context Mostly in shadow for most strong, low-angle summer sun (15:00-21:00)

Risk of glare, overheating,

filtered well

3 00 Yoga Room (right)

Window/s: a narrow vertical windows 1125x3600mm

mood: green, quiet zone & private

	Horizon- tal slats start at	2 m, spacing 350 and depth 450mm	
	vertical slats	26x140 mm, spac- ing 350mm. A little denser for more privacy	
	Result	Let filtered	

	privacy
Result	Let filtered light and glimpses of greenery in
	& maintain pri

Window/s: one low wide horizontal slit 1250x3750

mood: Darker, immersive space

vertical Thick vertical

slats slats 40x185, spac-

	500mm and tighter towards the edge 250 mm
Result	Let small amount of light and glimpses of greenery in & maintain privacy & the immerssive mood

01 Studios

Window/s: Large glazing 3600x3750 for maximum view

mood: Dynamic, open, warm in afternoon; calm and clean in the morning

ver- tical slats	deep slats 40x185 & thinner ones 26x140 starting at 2m for more shadow
result	the vertical rhythm is casting soft patterns and shift mood with daylight
Hori- zontal	450x50 space 300 starting at 2.7 m

Al

Sun context Full sun exposure throughout the day, especially midday

High-angle summer sun (10:00-15:00) risks overheating and glare

Low-angle winter sun (10:00-14:30) provides valuable passive heat gain Ideal for controlled daylighting and seasonal responsiveness if properly shaded

3 00 Yoga Room

Concept: Calm, meditative, cool in summer

Window/s:
a narrow vertical
windownear the edge this
brings morning light but
avoids glare.

Cover the rest with a green façade

vertical slats behind greenery for rhythm and structure.

00 Sensory Room (left) No horizontal slats here the window is small - no need to block high sun.

Benefit: Reduced overheating, visual softness, natural sound insulation from greenery.

v.L.v
Light quality: soft
diffused light from edge,
mostly shade

mood: secluded, green	
quiet zone	

Horizon- tal slats	none
vertical slats	140x26 mm, spac- ing 350 - where no windwos 1050 mm
Result	Winter sun (15–25°) enters from edge window; summer sun blocked from top

01 Studio

Concept: cool, active,

a narrow vertical windownear the edge this brings morning light but avoids glare.

Cover the rest with a green façade

vertical slats behind greenery for rhythm and structure.

No horizontal slats here the

B2

Sun context strong, low-angle summer sun (15:00-21:00)

Risk of glare, overheating, and intense reflections in

Winter sun is weak but may still offer passive gain if filtered well

00 Staff Office (right)

Window/s: full height (3600 mm) with light filtering

mood: Comfortable work zone, active view

Hori- zontal slats	starts at 2 m, spac- ing 350 and depth 450mm
vertical slats	26x140 mm, spacing: 350 mm. At the windows closed till height 1200mm to provide privacy and then open
Result	Keeps the light soft and workspace usable throughout the afternoon

01 workshop space

Window/s: full height (3600 mm) with light filtering

mood: bright & active

Hori-	start at 2.5 m, spac-
zontal	ing 350 and depth
slats	400mm
vertical	19x92 mm, spacing:
slats	350 mm.
Result	Maintains daylight and visual activity with functional sun protection

02 CO-working space

Window/s: full height (3600 mm) with light filtering

🔀 **mood:** bright, green &

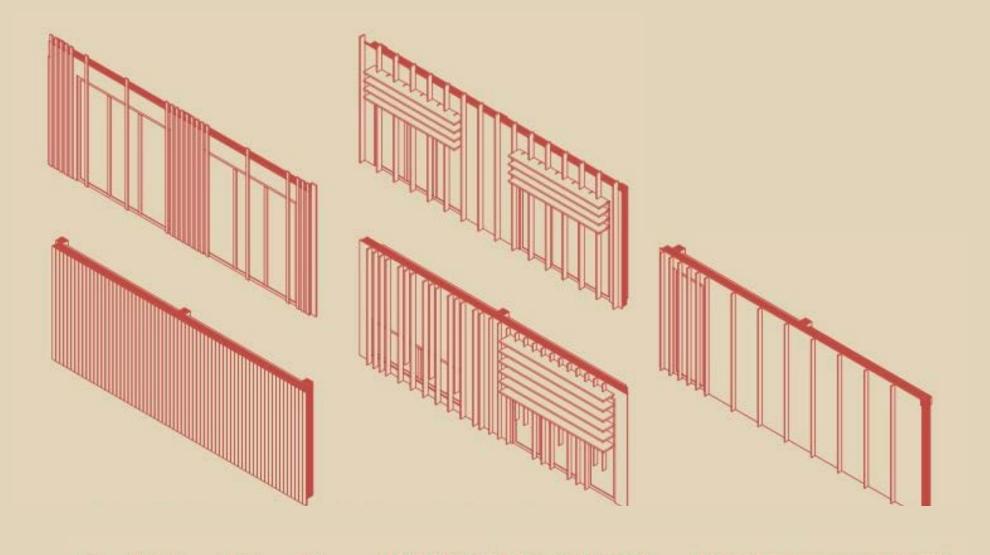
open	
Hori- zontal slats	start at 2.5 m, spac- ing 350 and depth 400mm
vertical slats	26x140 mm, spacing: 500 mm.
Result	daylight for focus, minimal glare on screens

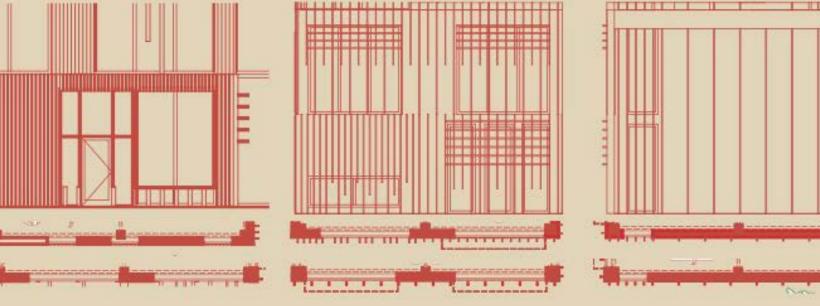
03 Indoor playground

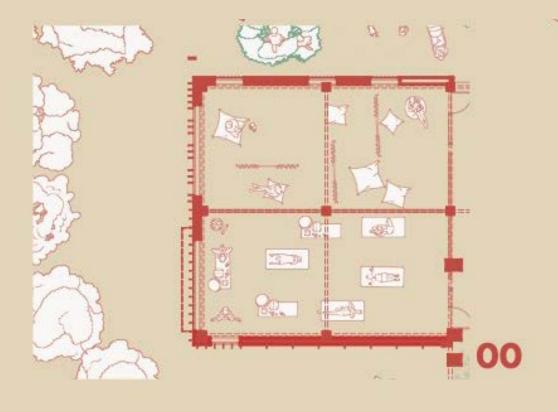
Window/s: full height (3600 mm) with light filtering

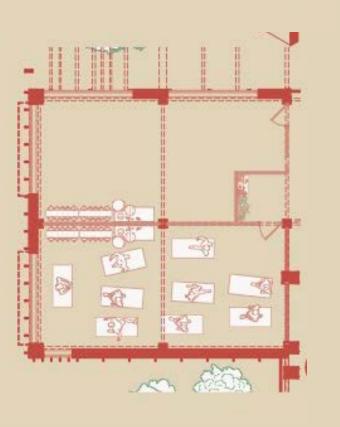
mood: joyful, bright

Hori-	start at 2.8 m, spac-
zontal	ing 350 and depth
slats	450mm
vertical	19x92 mm, spacing:
slats	500 mm.
Result	Bright & joyfull sphere

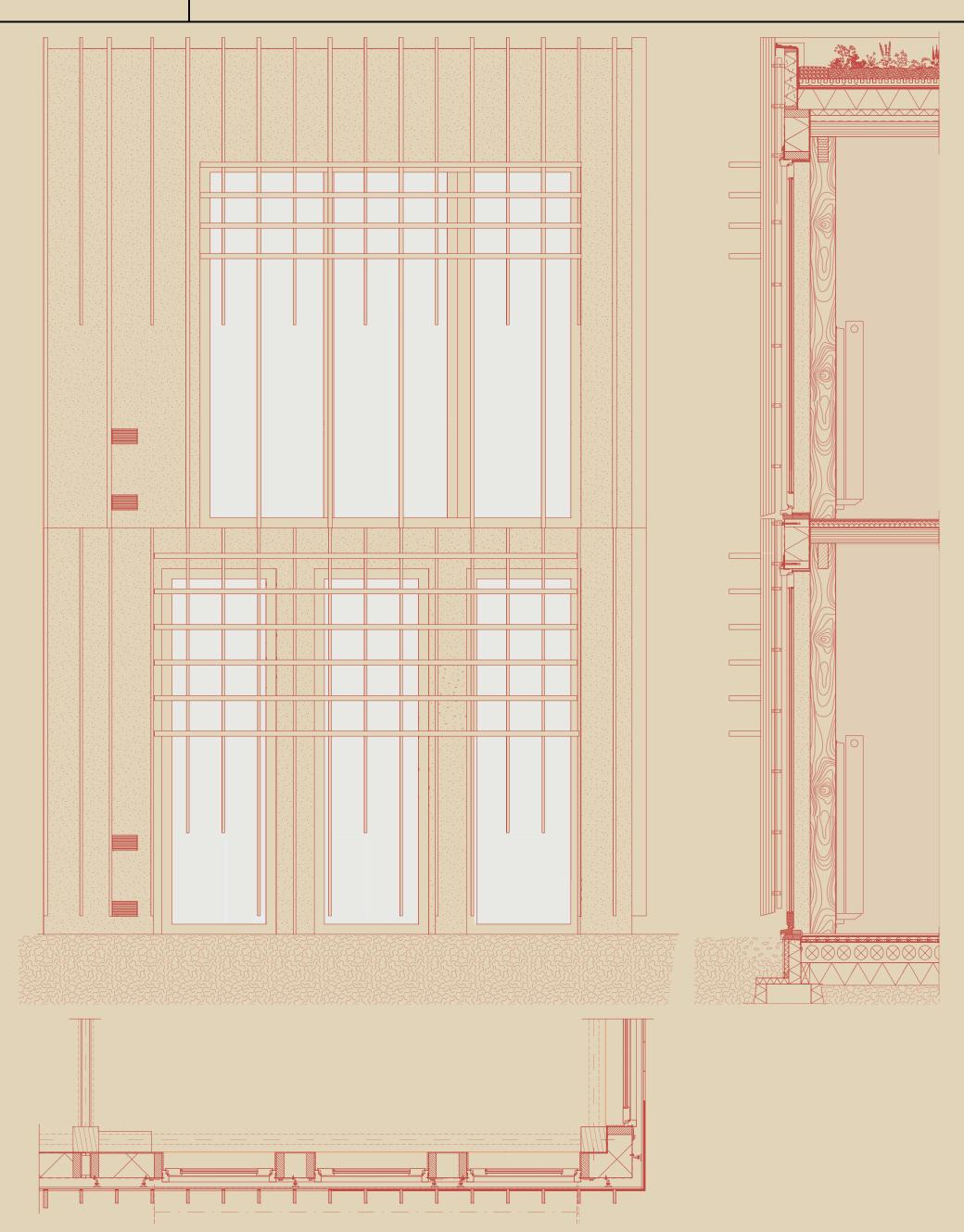


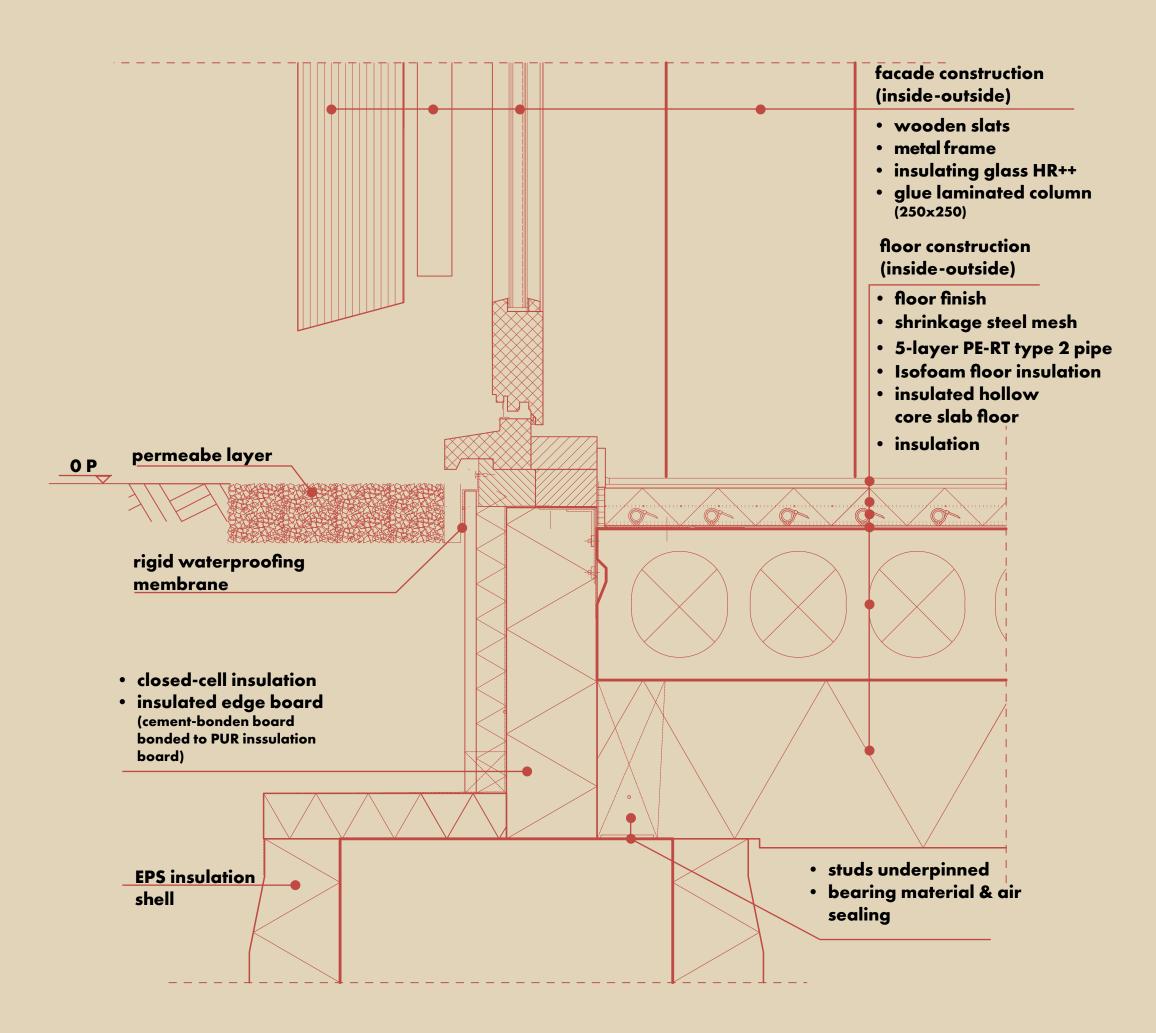


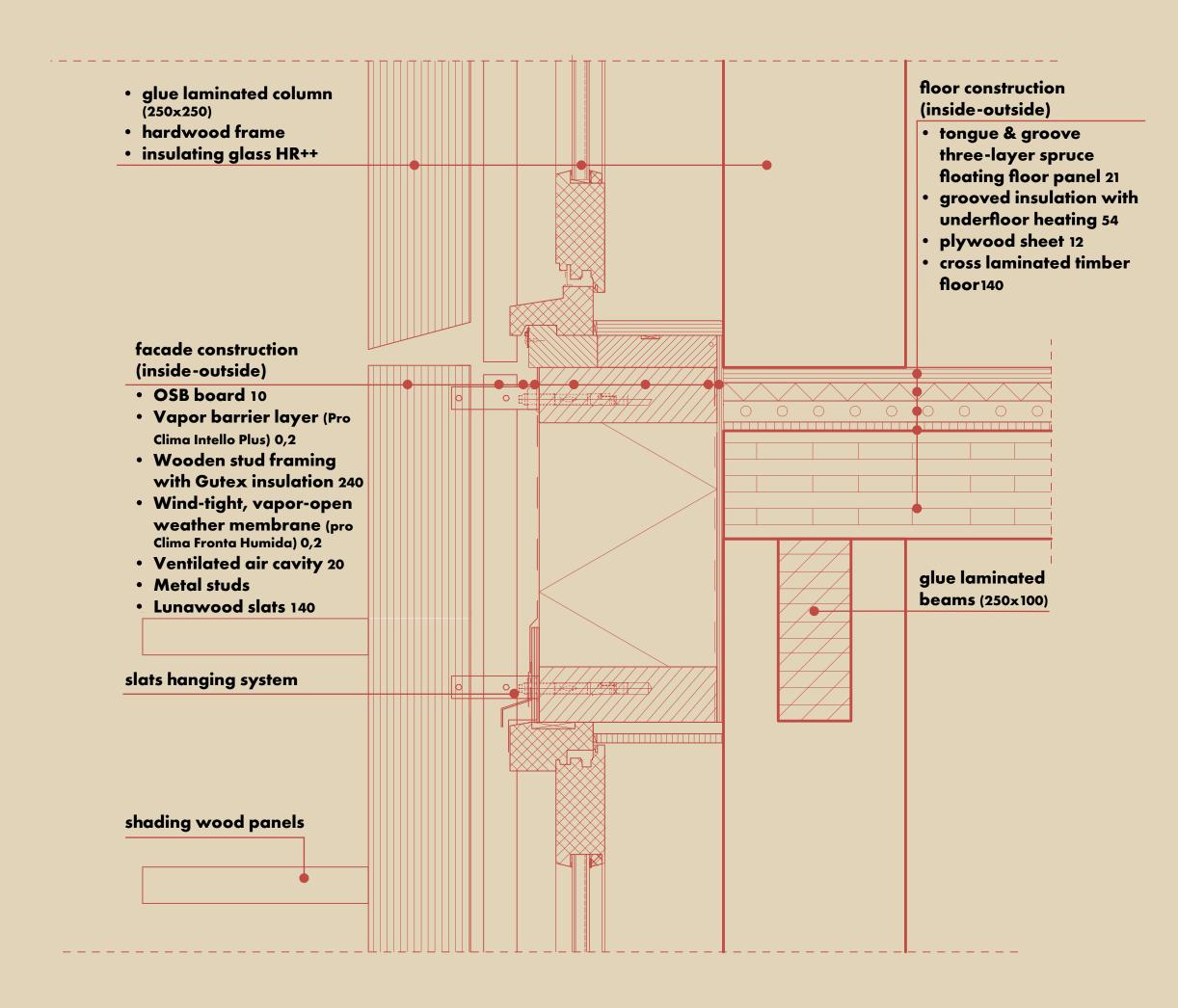


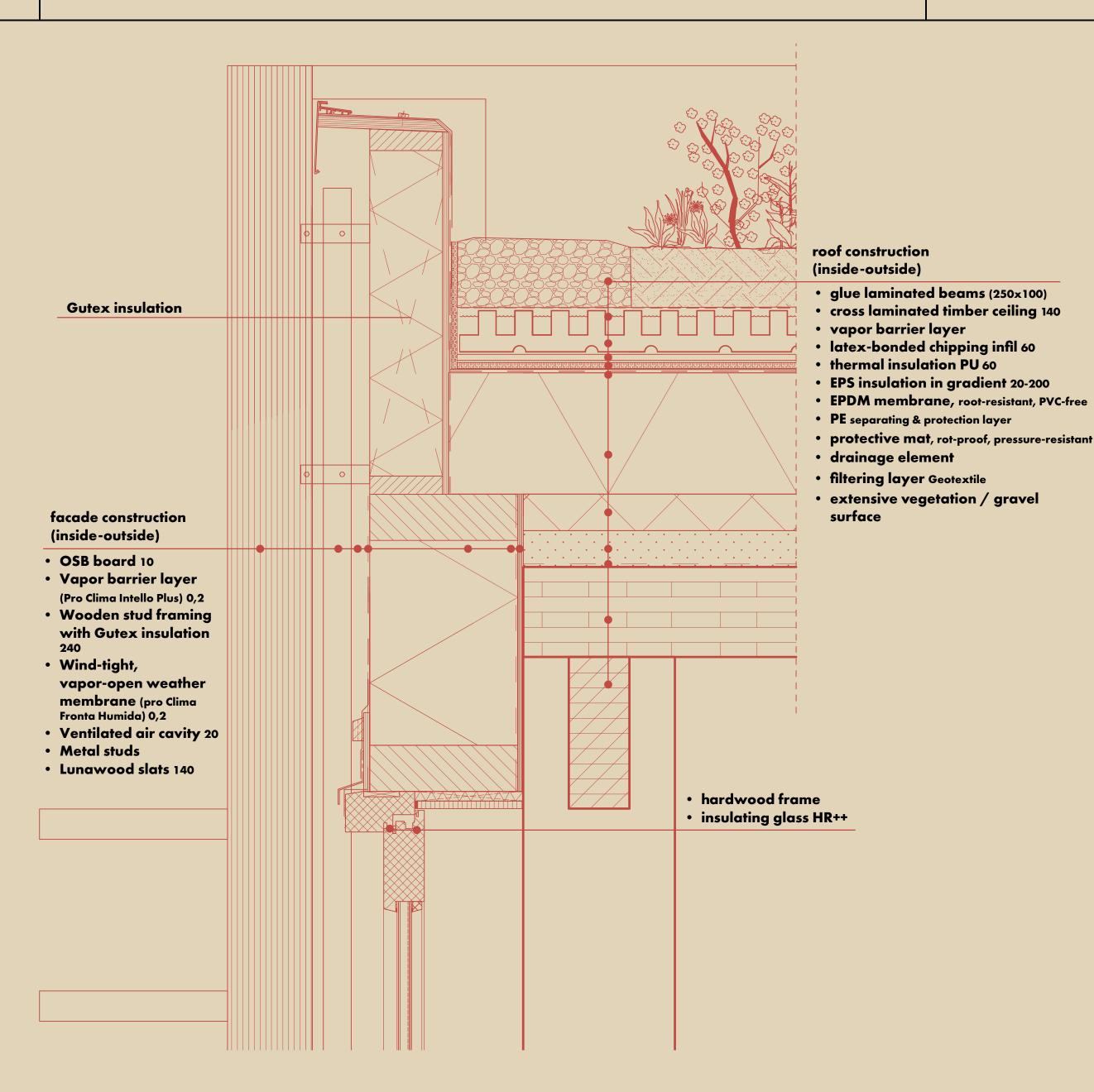


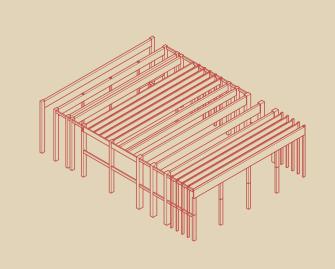
FILTERED. FELT. ALIVE



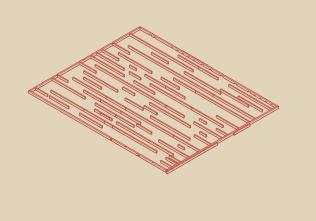




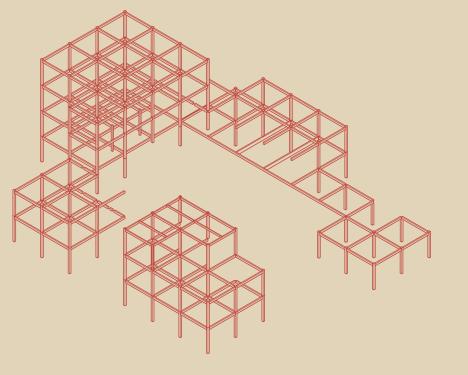




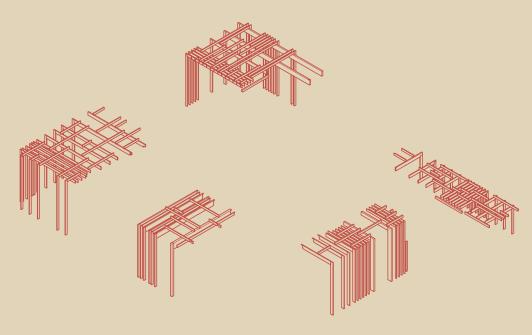




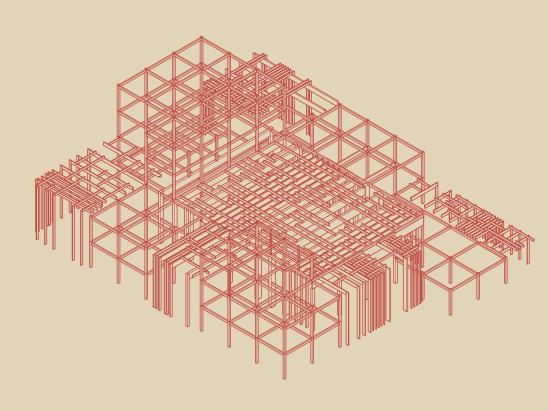
sky connection ligt & stability



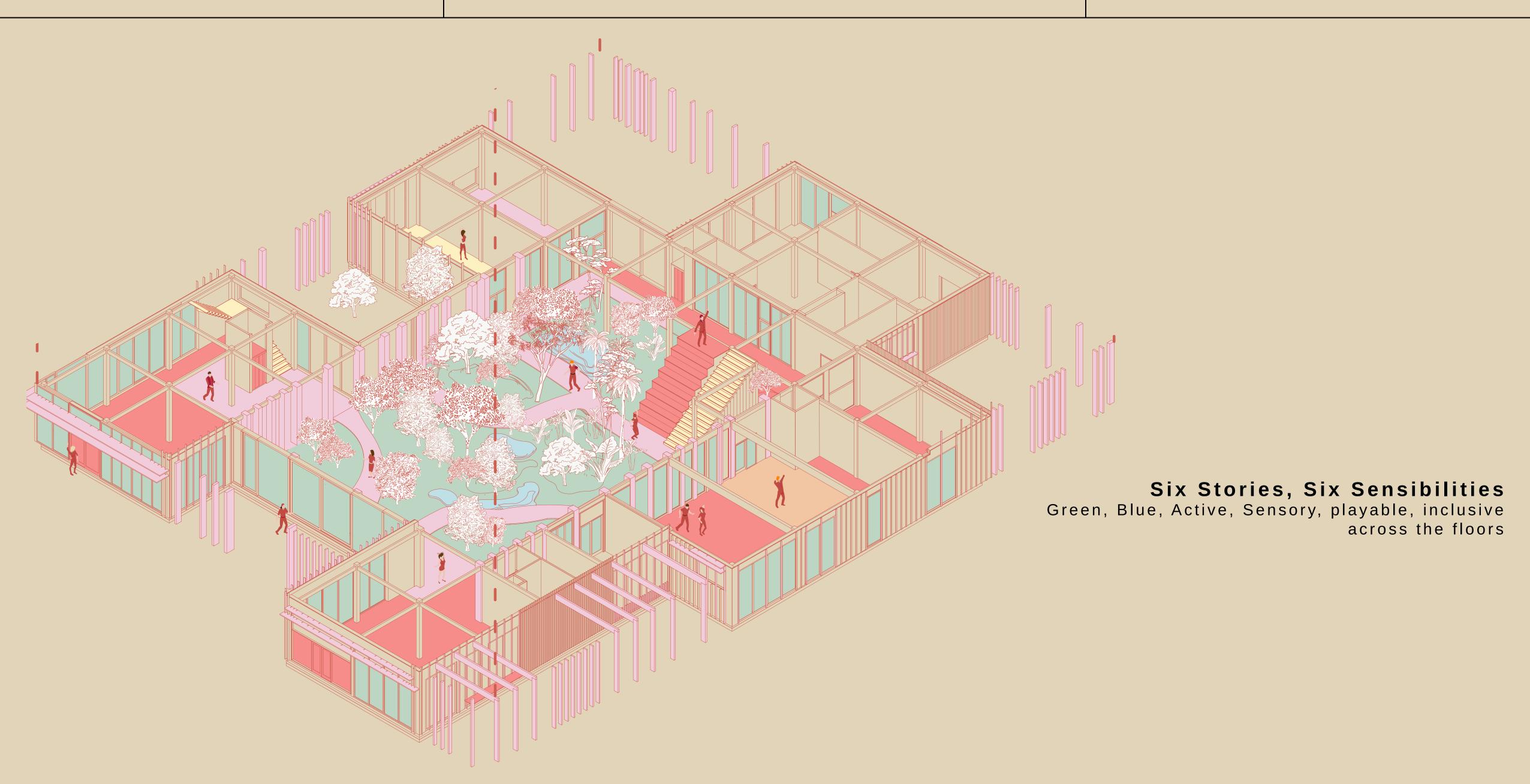
backbone neutral framework

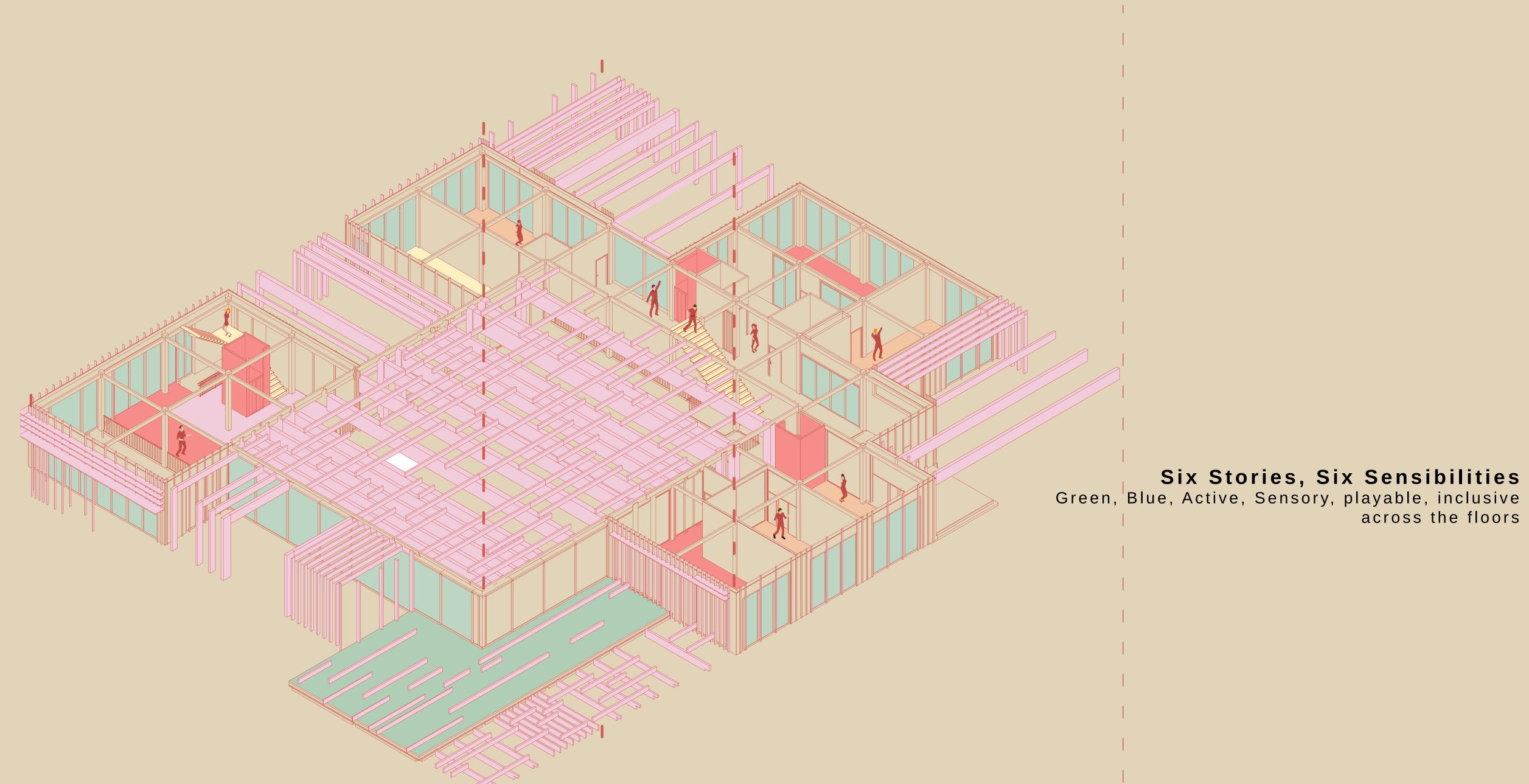


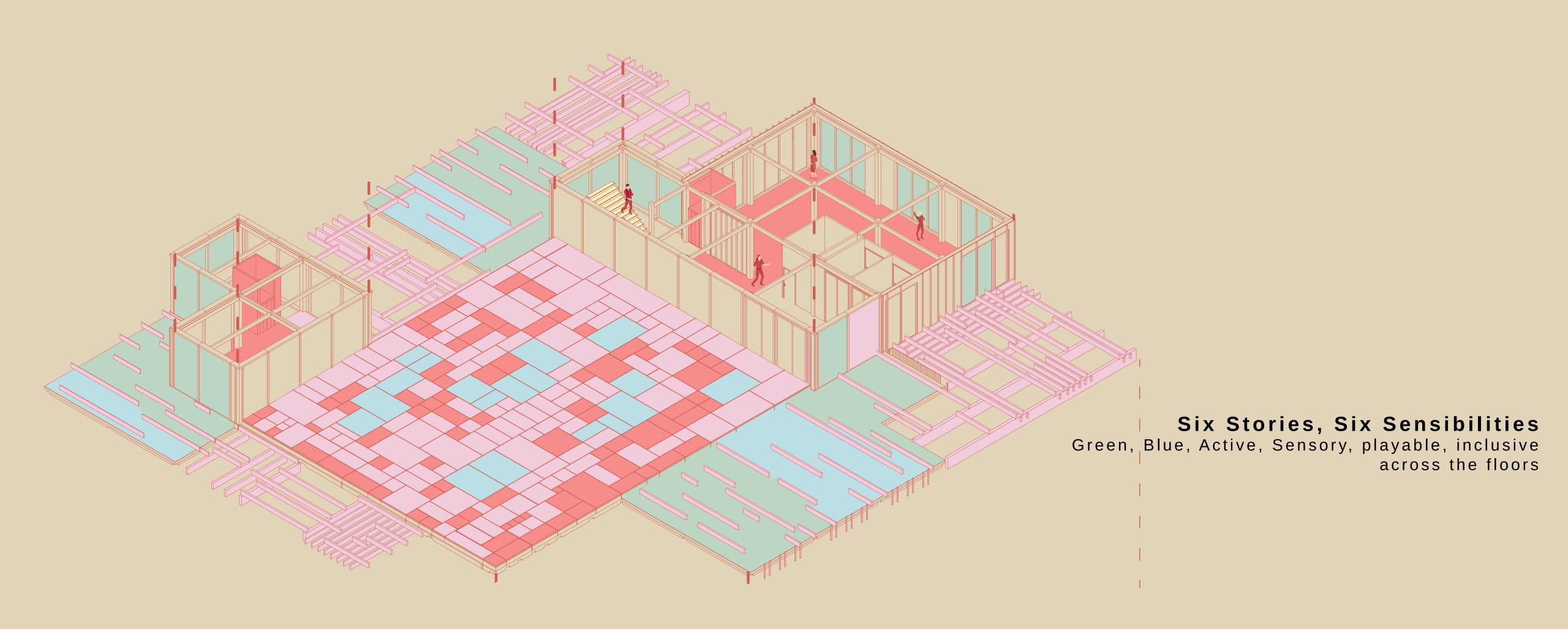
semi open light structure



flexible structure

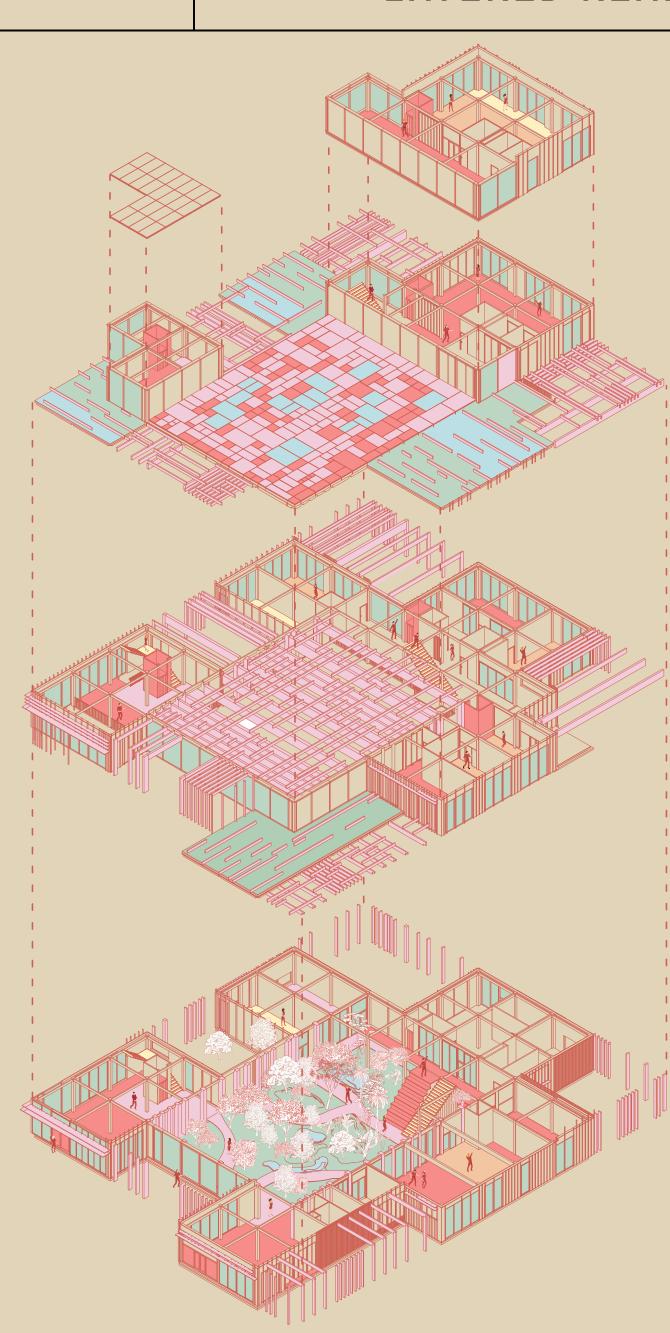






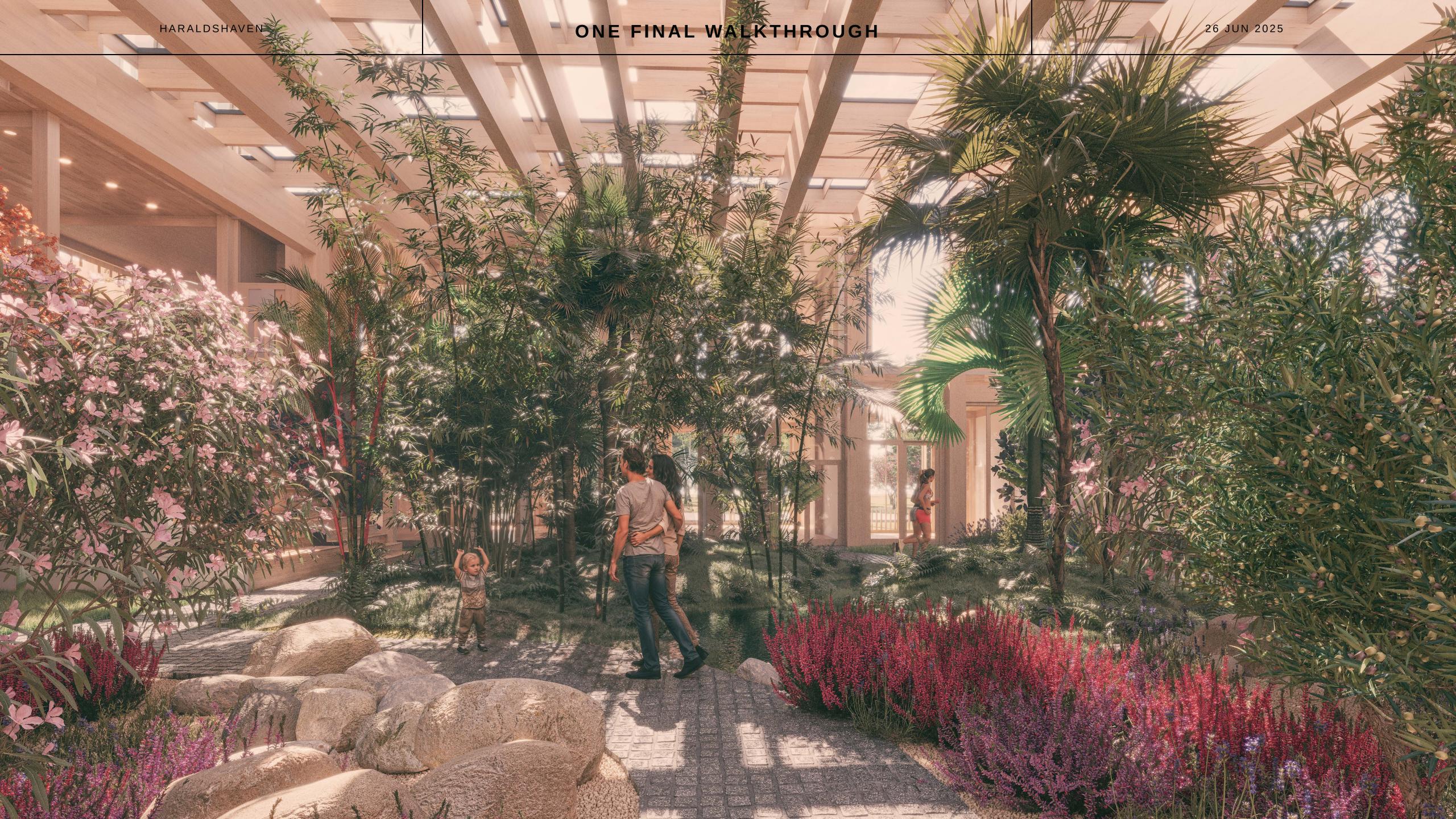


Six Stories, Six Sensibilities
Green, Blue, Active, Sensory, playable, inclusive
across the floors



Six Stories, Six Sensibilities Green, Blue, Active, Sensory, playable, inclusive

across the floors









THANK YOU