





REGION OSTERGOTLAND



VADSTENA



BIRGITTA SQUARE

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**ACTIVE USE OF THE SDGs IN DESIGN STRATEGIES AND BRIEF** 





**ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION** AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR **ALL** 



**ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS** 



MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE



**ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS** 



PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, **COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS** 



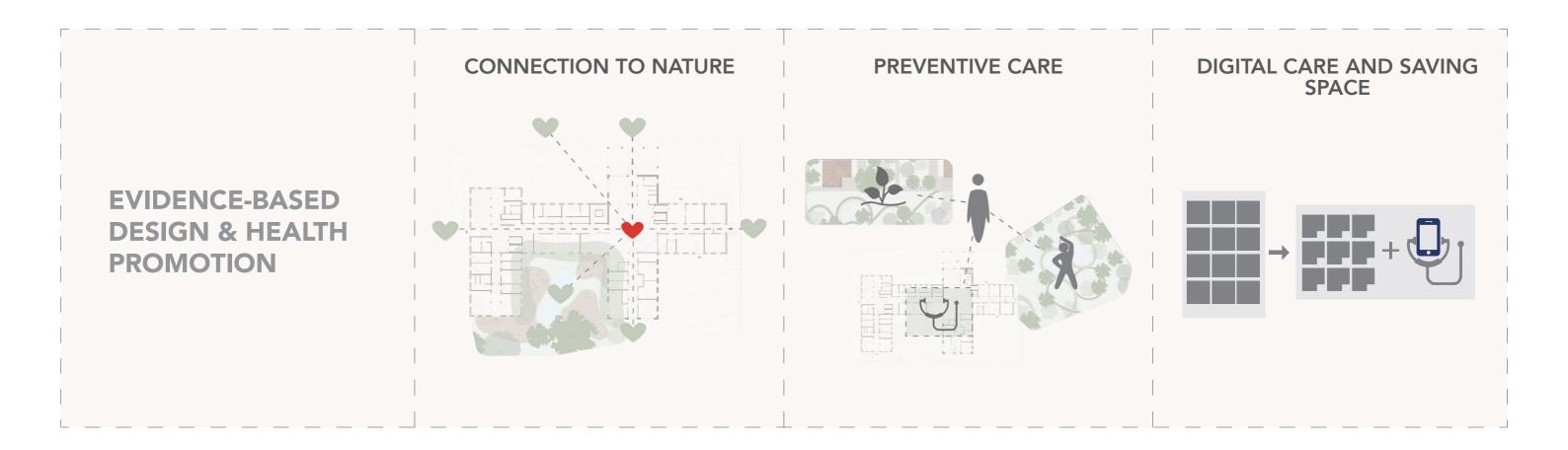














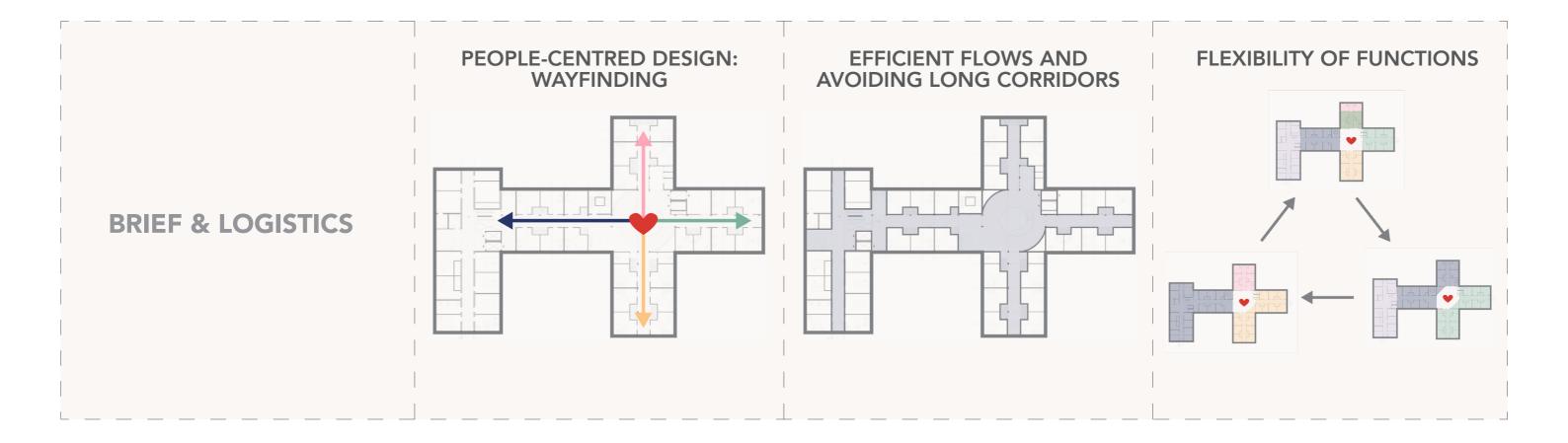


























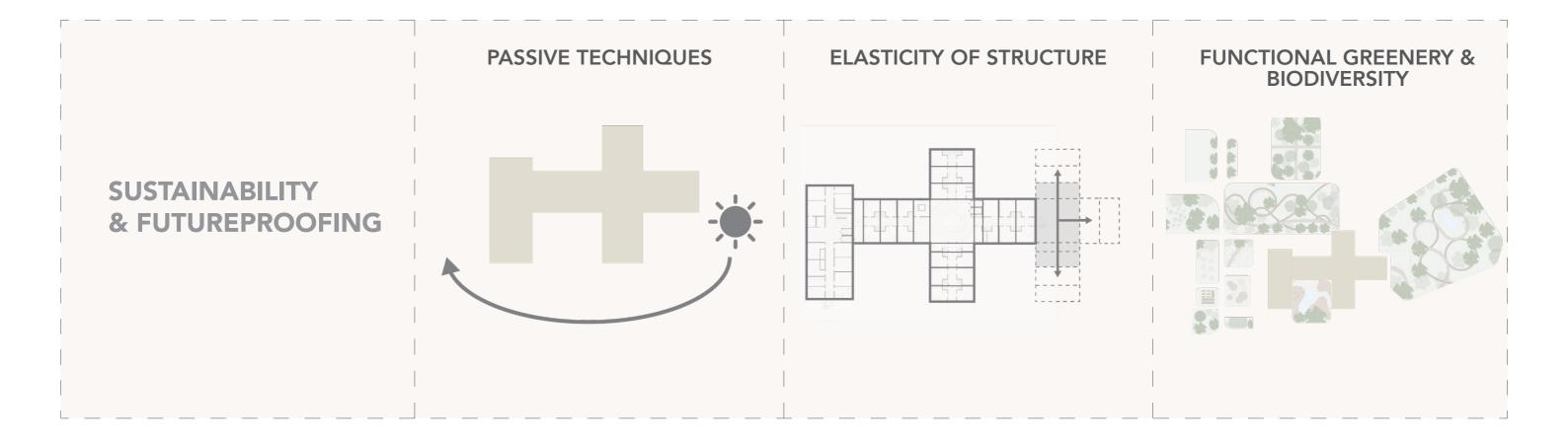






















## **REUSING BUILDINGS**

## **CHALLENGES OF RE-USE**







NARROW **CORRIDORS** 



**RESTRICTED** WINDOW **GRID** 



**STRONG EXISTING** 



**EXISTING** WALL CHARACTER BOUNDARIES



RESTRICTED **BUILDING** HEIGHT



STRATEGY: **RESPECT THE HISTORIC CONTEXT** 

# **OPPORTUNITIES OF RE-USE**



SUSTAINABLE REUSE



 $\mathsf{LOWER}\ \mathsf{CO_2}\ \mathsf{FOOTPRINT}\ \mathsf{BY}$ REUSING BASEMENT AND **FOUNDATION** 

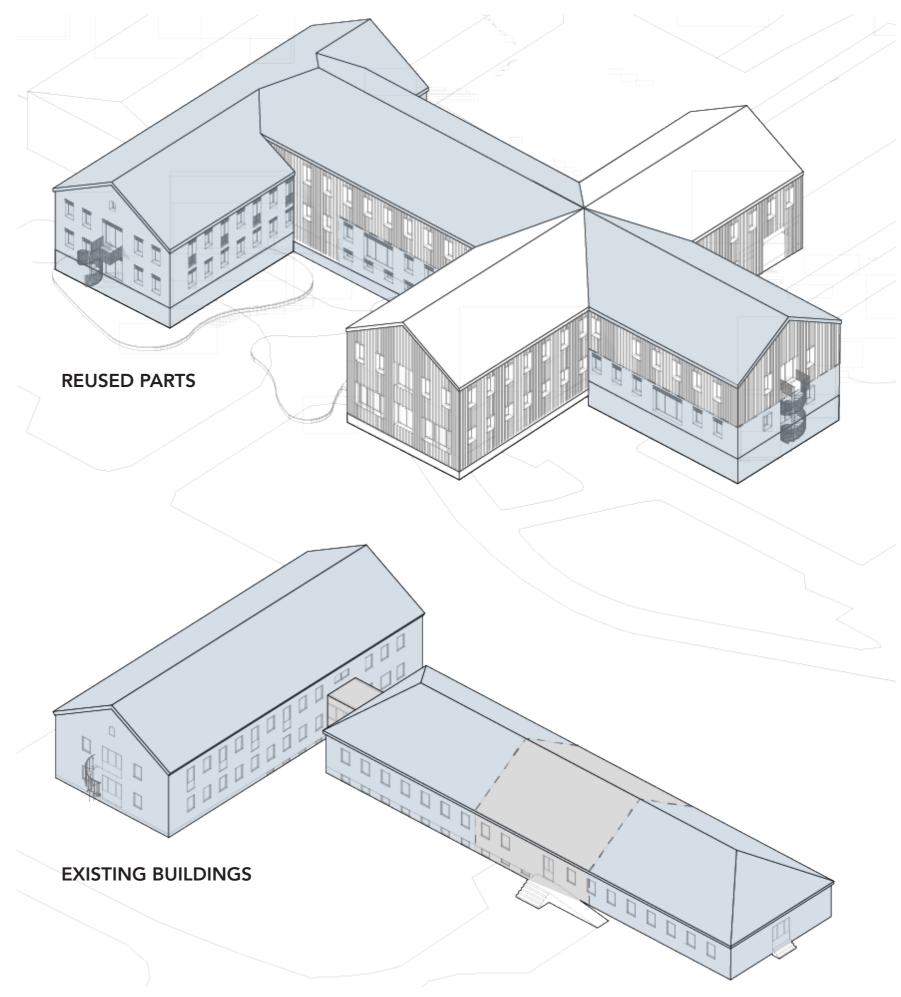


LOWER COST AND LESS CON-STRUCTION TIME



MATCHES THE HISTORIC GRID



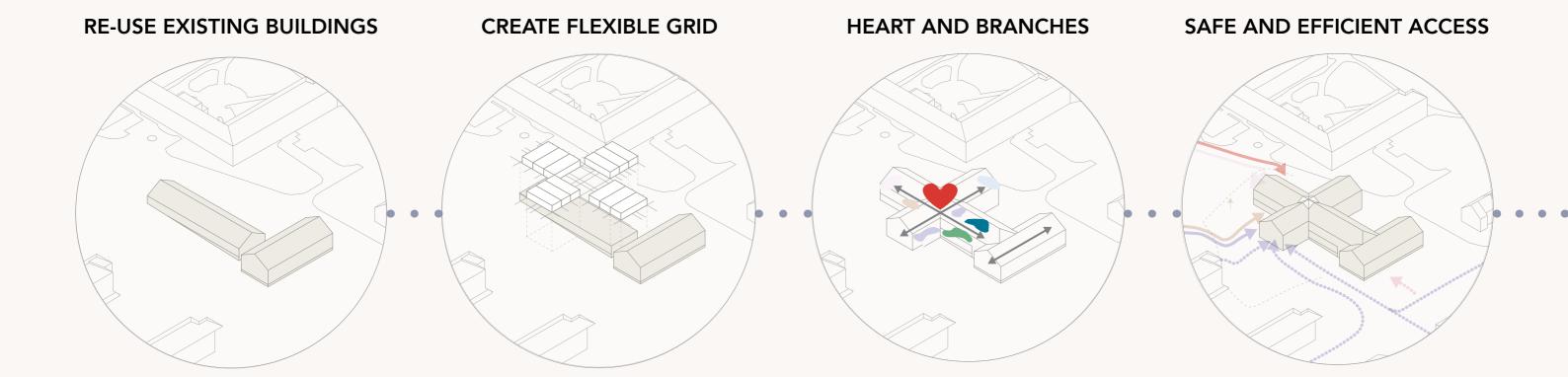














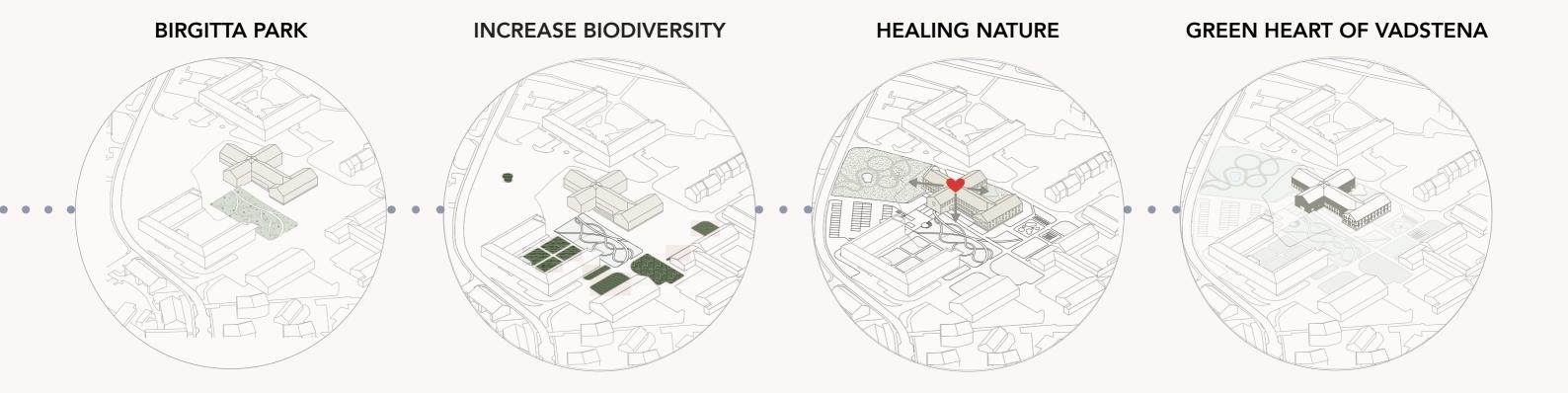


















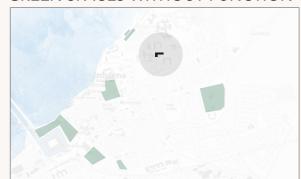




# **WIDER LANDSCAPE**

#### **ANALYSIS**

- HISTORY BIRGITTA HOSPITAL
- CLEAR GRID AND AXIS
- GREEN SPACES WITHOUT FUNCTION



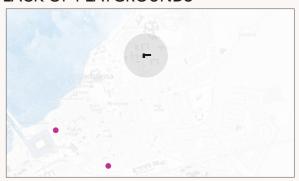
• NO WOMENS CLINIC



• LACK OF EXERCICE FACILITIES IN THE AREA



• LACK OF PLAYGROUNDS

















## **WIDER LANDSCAPE**

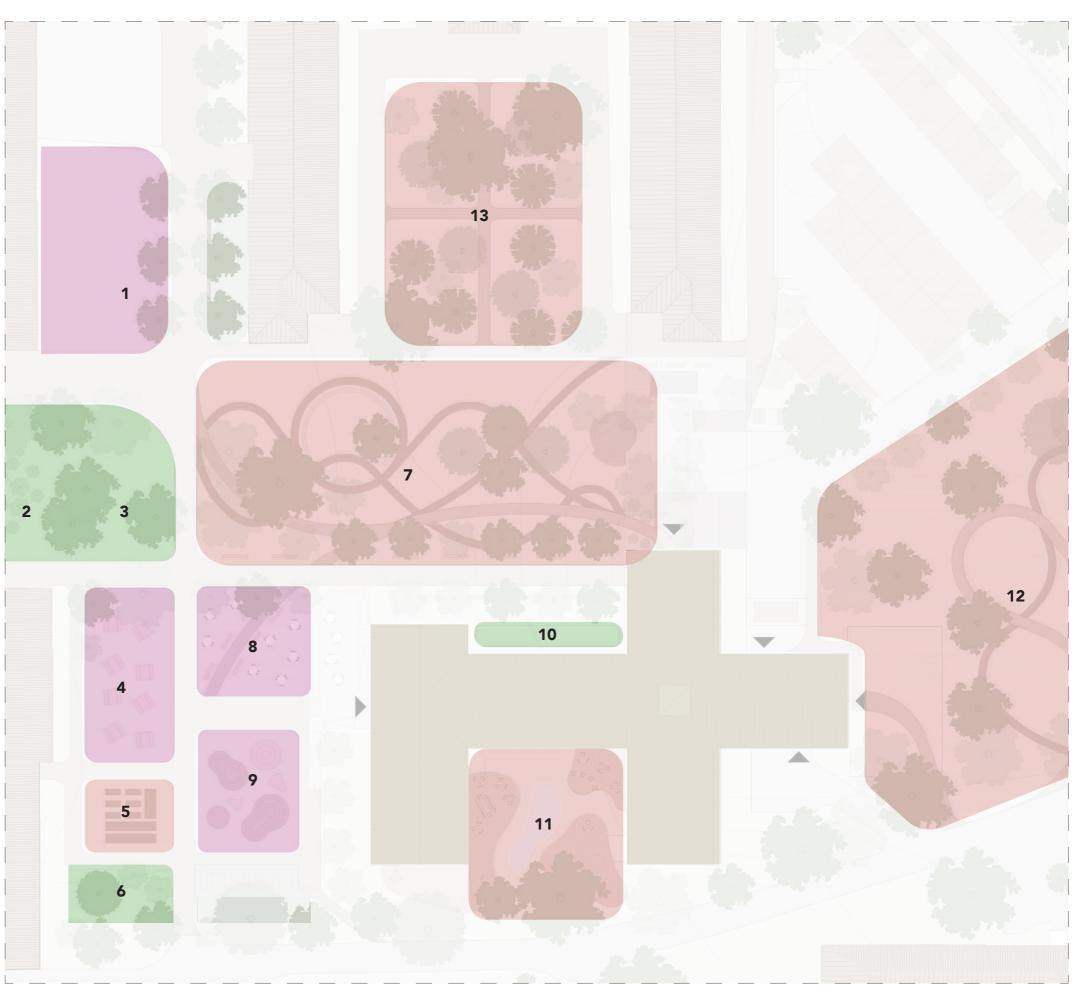
# SITE & ANALYSIS

#### **RESPONSE**

- REGENERATE GREEN SPACES WITH **HEALTH-PROMOTING ACTIVITIES**
- CREATE BIRGITTA PARK ALONG A GREEN CORRIDOR FOCUSING ON **BIODIVERSITY AND SOCIAL VALUE**
- CREATE A WOMENS CLINIC AT THE **HEALTH CENTRE**

#### **FUNCTIONAL GREENERY**

- 1 COMMUNITY GARDEN
- 2 RAIN GARDEN
- 3 BIRD HOUSES
- PICNIC AREA
- 5 COMMUNITY GROWING
- 6 INSECT GARDEN
- 7 BIRGITTA PARK SENSORY GARDEN
- 8 GATHERING
- 9 PLAYGROUND
- 10 WILD MEADOW
- 11 SUN GARDEN
- 12 EXERCICE PARK
- 13 ORCHARD
- BIODIVERSITY
- SOCIAL
- HEALTH PROMOTING



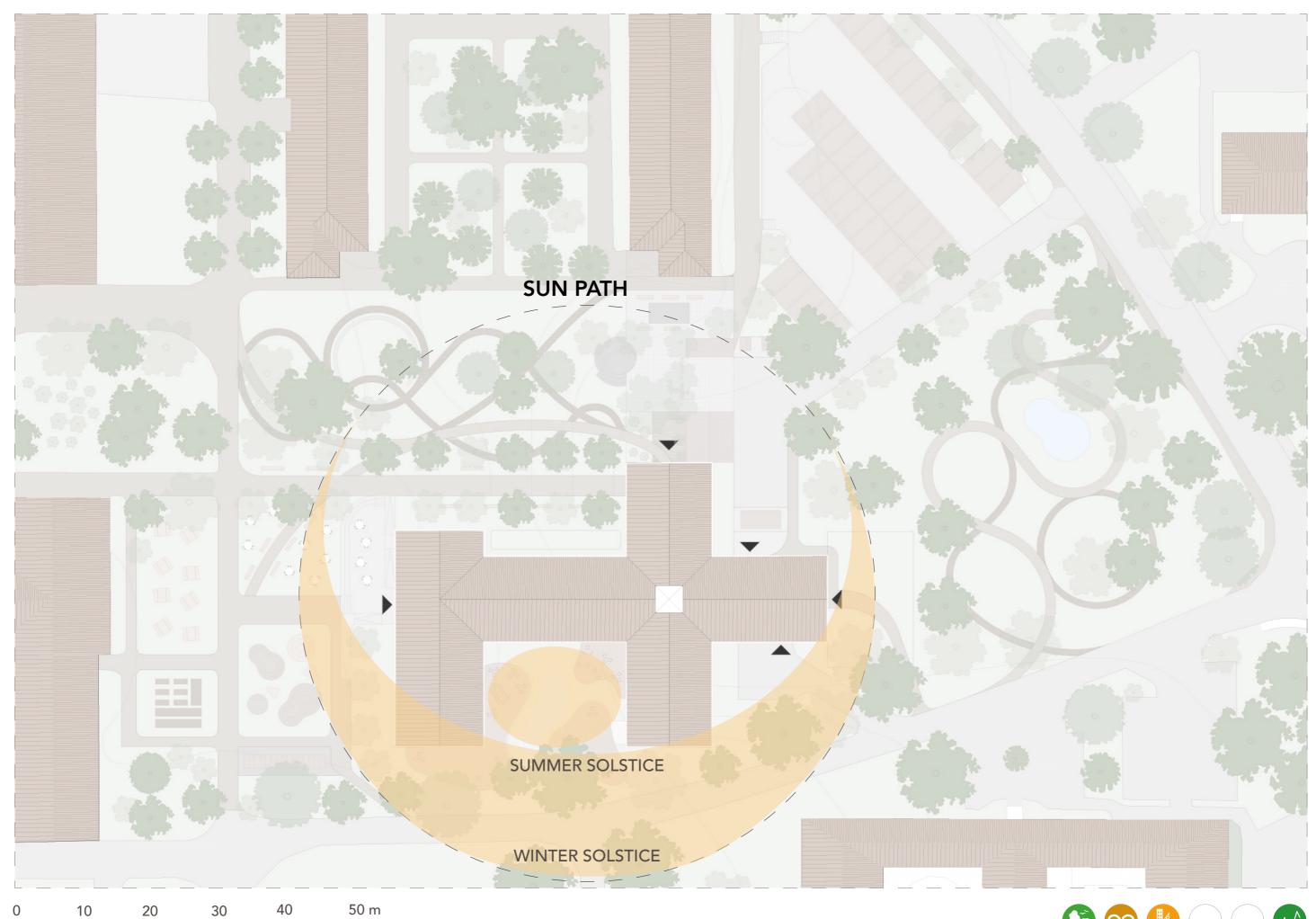














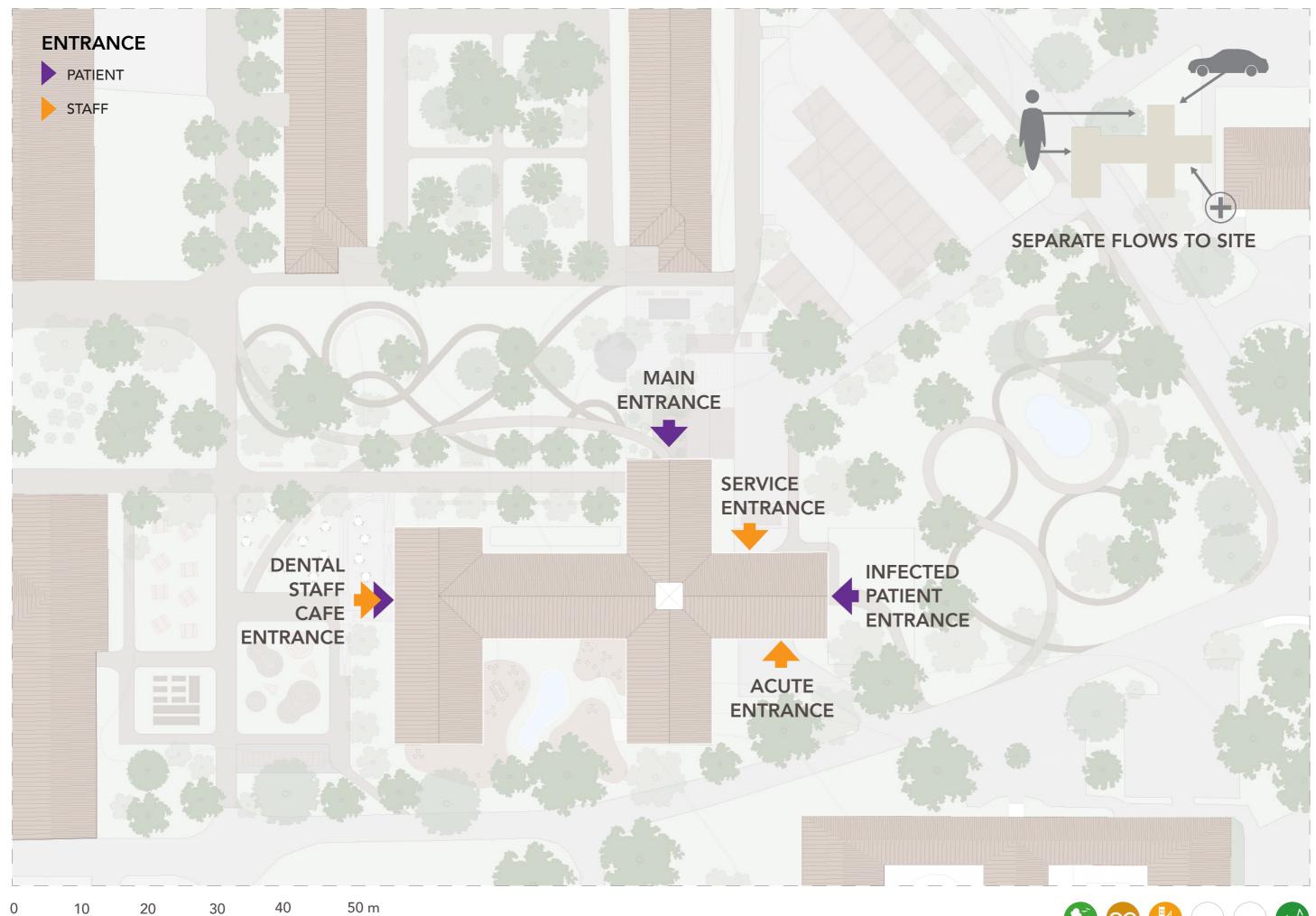






## SITE STRATEGIES: REVITALISING THE GREEN AREAS AND BIODIVERSITY











## SITE STRATEGIES: REVITALISING THE GREEN AREAS AND BIODIVERSITY





30









## **CHALLENGING THE BRIEF**



**WOMEN'S CLINIC** 



CENTRE COMMUNICATION



**DIGITAL CARE** 



PREVENTIVE CARE



**MOBILE CARE HUB** 



**INFECTION CARE** 

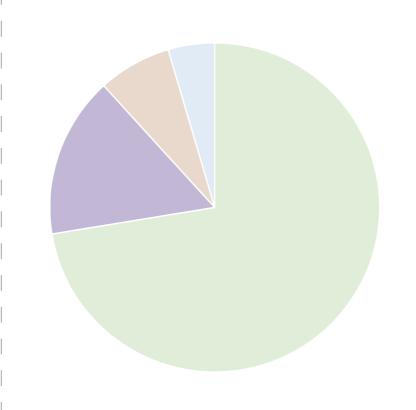


CAFÉ



**STAFF WELLBEING** 

#### **ORIGINAL BRIEF**



# **ORIGINAL BRIEF** PRIMARY CARE

DENTAL CARE SERVICE SPACES

FAMILY CENTRE

**TOTAL** 

1516 m<sup>2</sup>

1098 m<sup>2</sup>

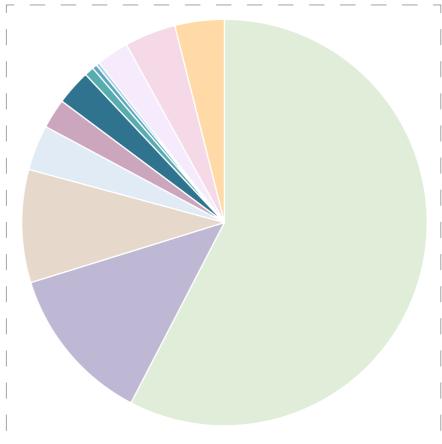
109 m<sup>2</sup>

240 m<sup>2</sup>



#### PROPOSED BRIEF





#### **PROPOSED BRIEF**

<ul><li>PRIMARY CARE</li></ul>	$1070 \text{ m}^2$
<ul><li>DENTAL CARE</li></ul>	$234 \text{ m}^2$
<ul><li>SERVICE SPACES</li></ul>	$167 \text{ m}^2$
<ul><li>FAMILY CENTRE</li></ul>	$67 \text{ m}^2$
WOMEN'S CLINIC	$44 \text{ m}^2$
<ul><li>COMMUNICATION CENTRE</li></ul>	$52 \text{ m}^2$
<ul><li>DIGITAL CARE</li></ul>	$14 \text{ m}^2$
<ul><li>PREVENTIVE CARE HUB</li></ul>	$7 \text{ m}^2$
MOBILE CARE HUB	$5 \text{ m}^2$
INFECTION CARE	$48 \text{ m}^2$
<ul><li>CAFÉ</li></ul>	$76 \text{ m}^2$
STAFF WORKOUT AREA	$73 \text{ m}^2$
TOTAL	1858 m <sup>2</sup>
+	342 m <sup>2</sup>

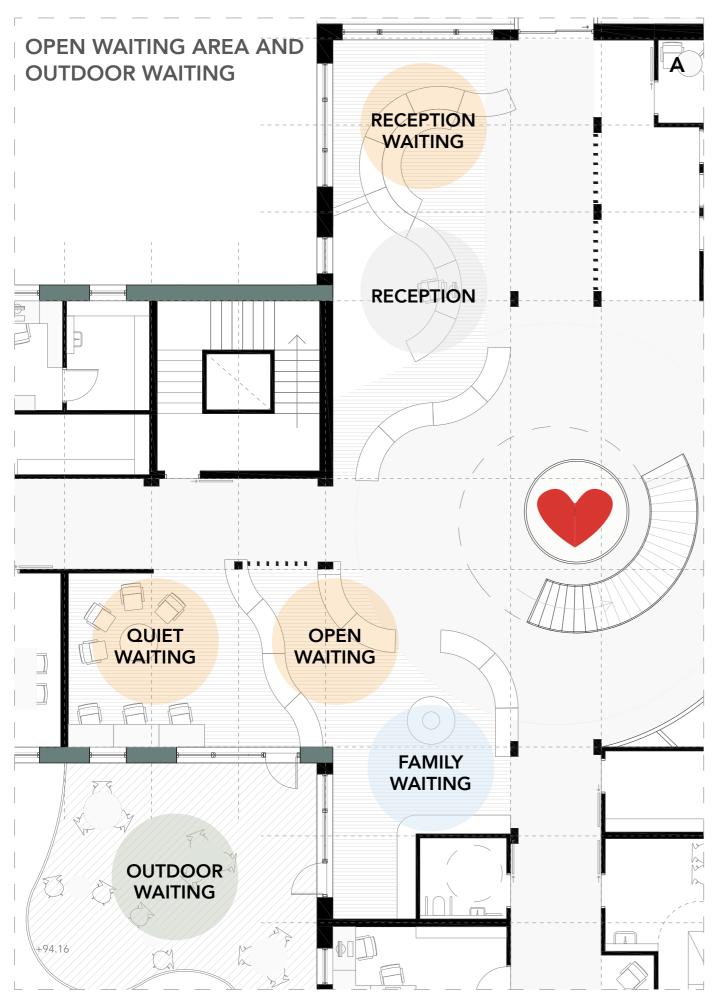












## **FLEXIBLE AREAS ALONG** THE CORRIDOR

WORKING

POD

NOOK

WORKING POD

NOOK

SUPPLY

NOOK

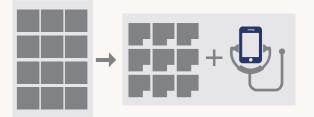
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SUPPLY

#### **DIGITAL CARE HUB**

- DIGITAL MEETING ROOMS
- ONE POINT OF CONTACT

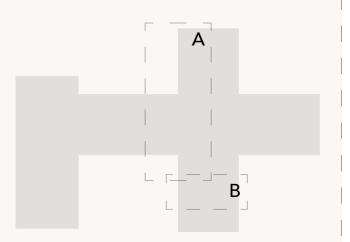
## **REDUCTION OF OFFICES & EXAMINATION ROOMS: WORKING FROM HOME**



## **34 EXAMINATION ROOMS 18 OFFICES**



**30 EXAMINATION ROOMS** 13 OFFICES











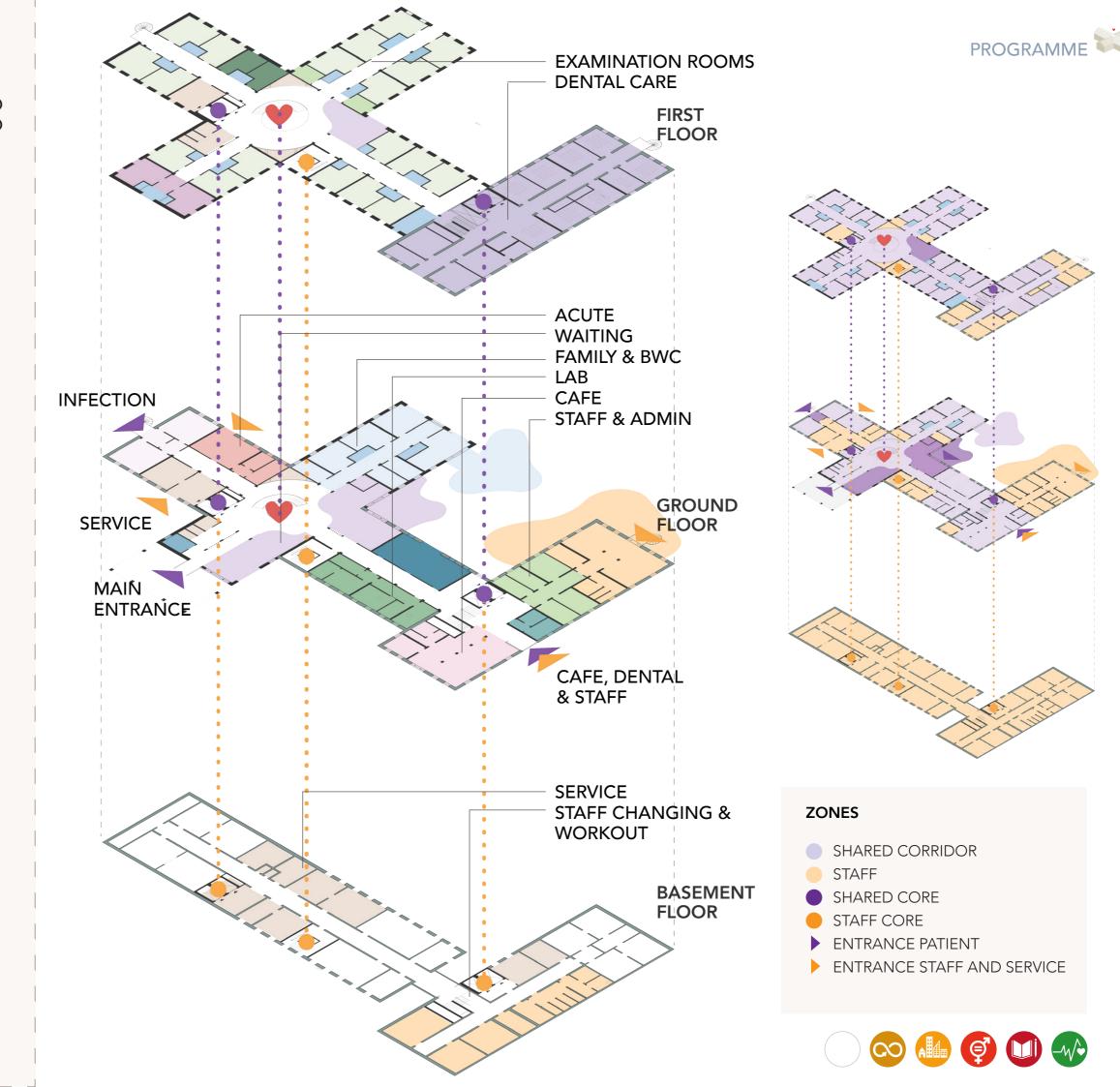




#### FLOOR PLAN CONCEPT

- ACCESS POINTS TO SITE AND ENTRANCES ARE SEPARATED FOR FLOW AND EFFICIENCY
- THE HEART AND DEPARTMENTS
- THREE CORES

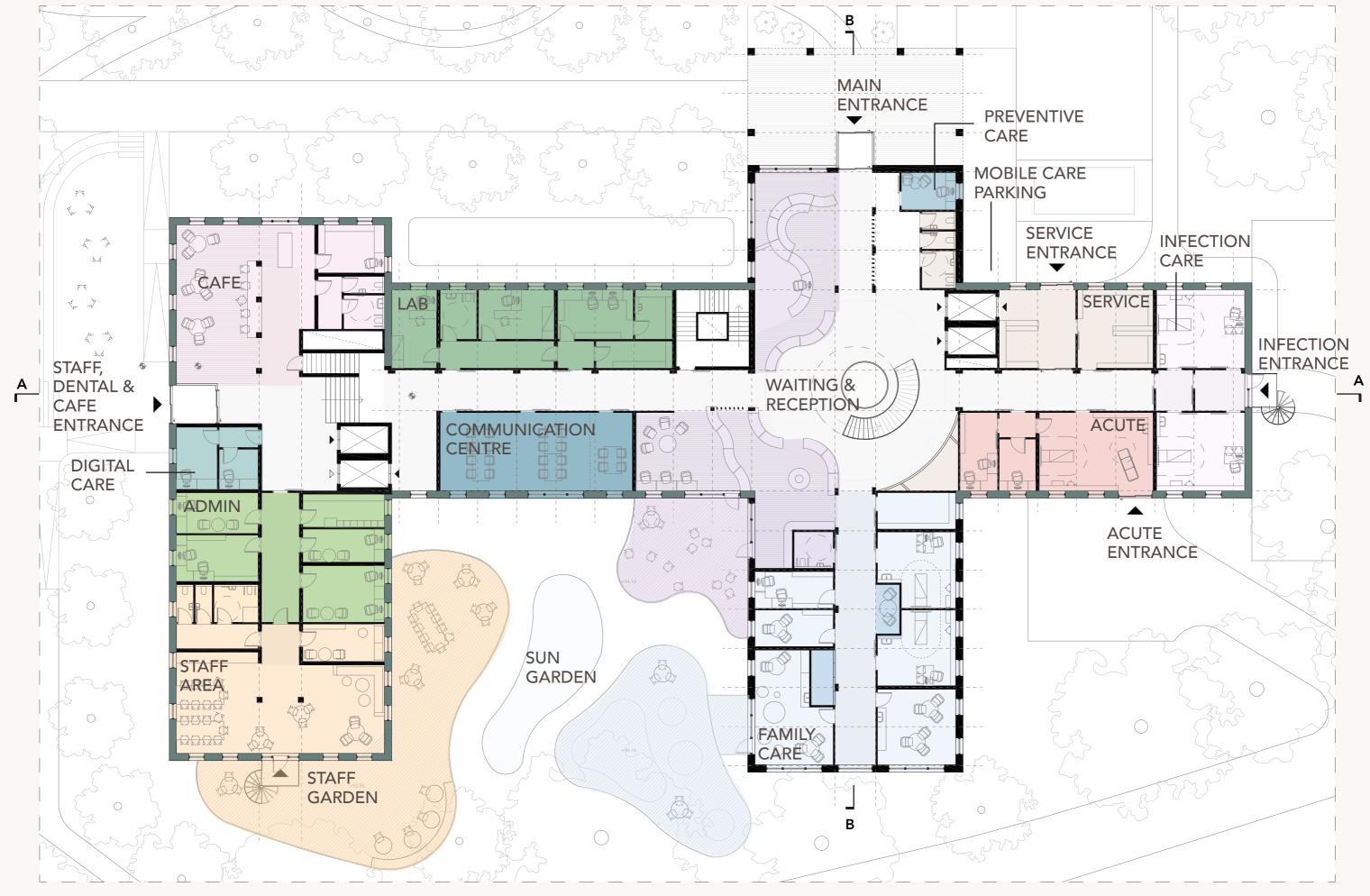
- **♥** HEART
- WAITING AREA
- EMERGENCY
- CAFE
  - INFECTION CARE
- STAFF AREA
- SERVICE SPACES
- ADMINISTRATION
- LAB
- DIGITAL CARE
- PREVENTIVE CARE
- COMMUNICATION CENTRE
- FAMILY CENTRE WITH BWC
- FLEXIBLE AREAS
- DENTAL CARE
- EXAMINATION ROOMS
- PSYCHOSOCIAL RECEPTION
- WOMEN'S CLINIC



10

15

20m





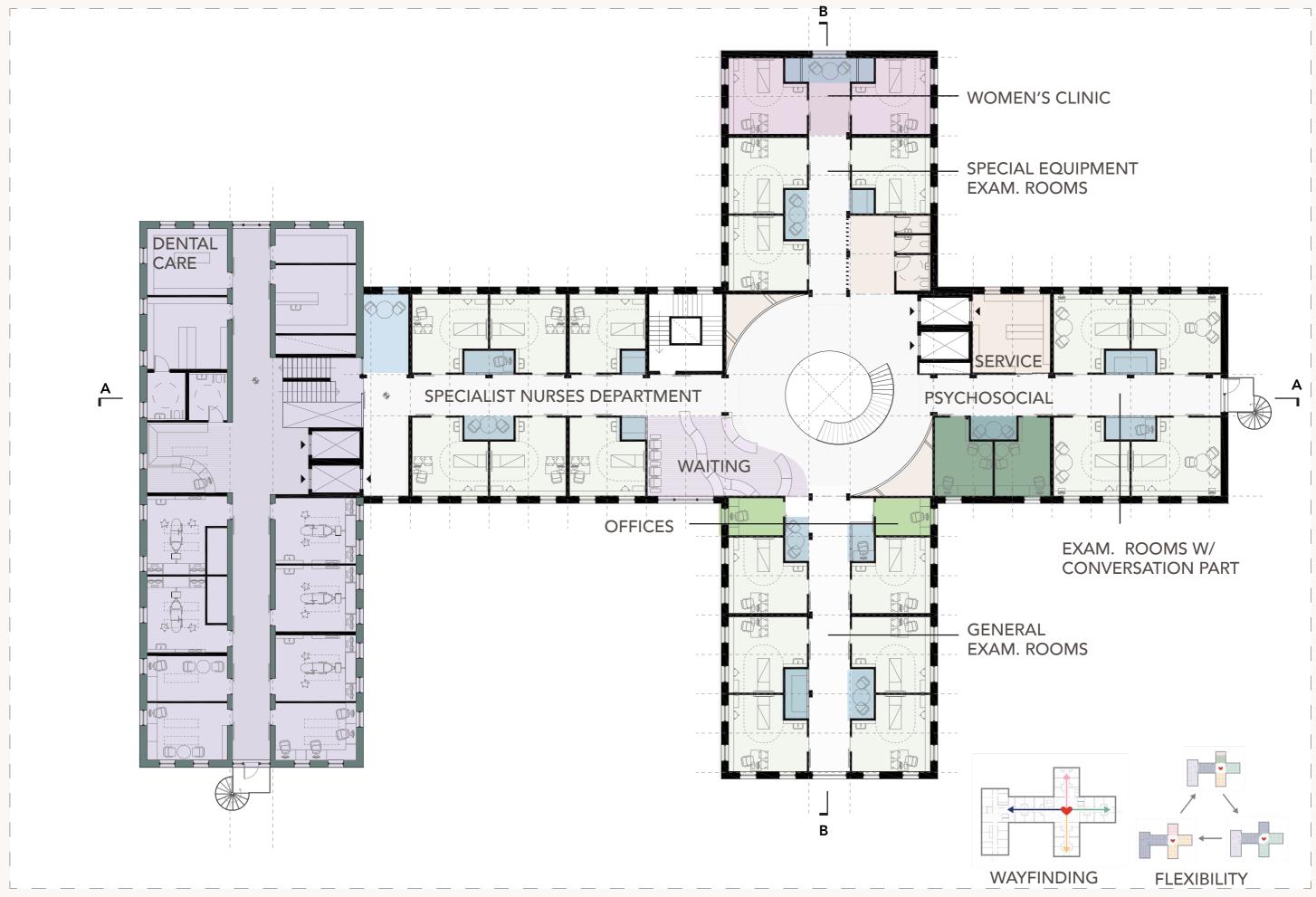










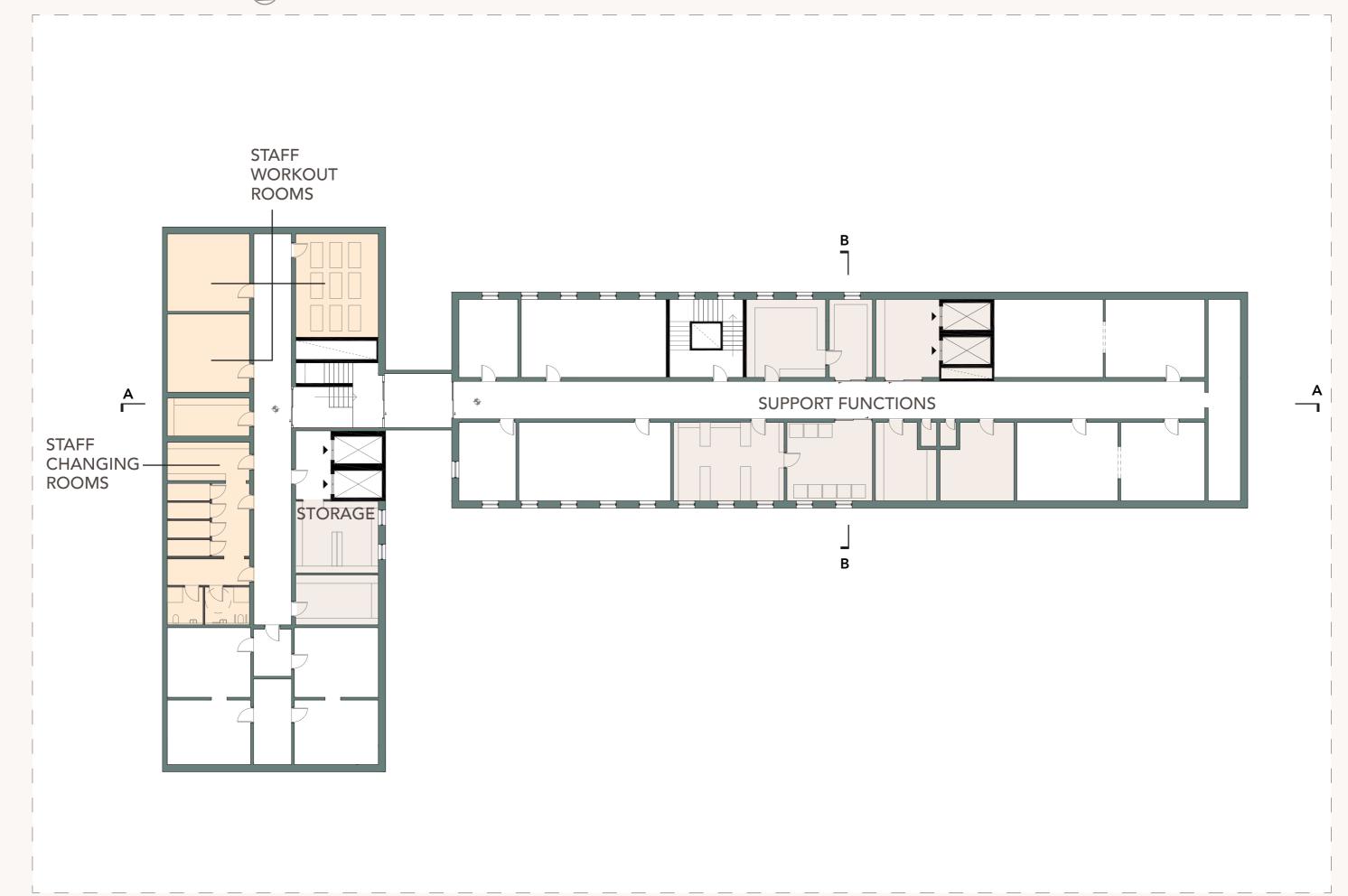
















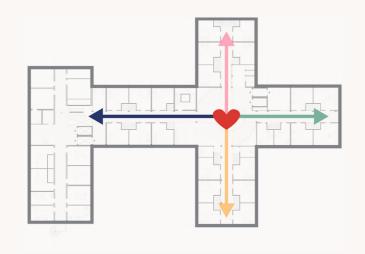


## **DEPARTMENTS**

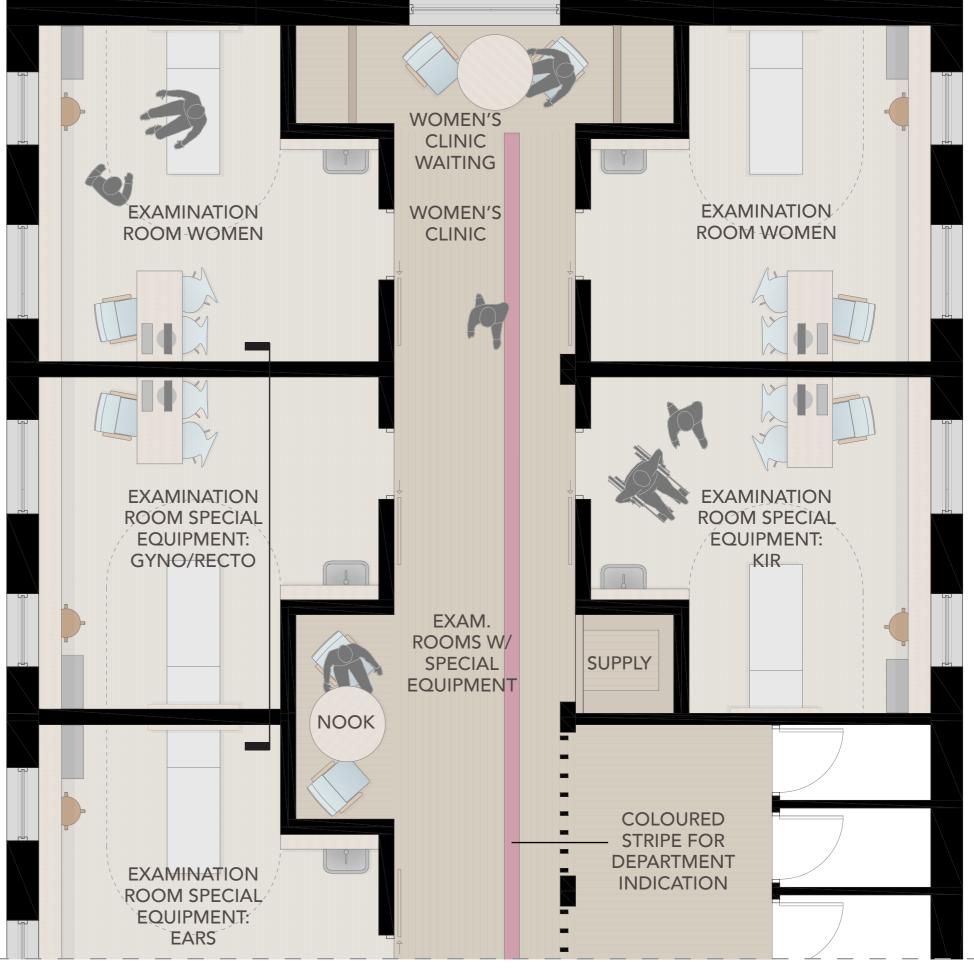
#### **SECTION - EXAMINATION ROOM**



#### **EASY WAYFINDING**







5 m





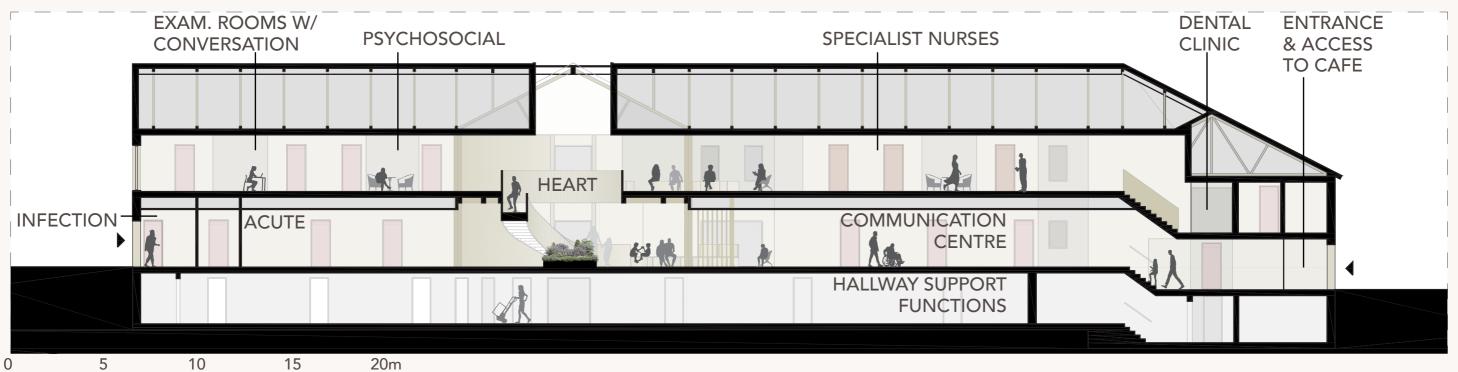


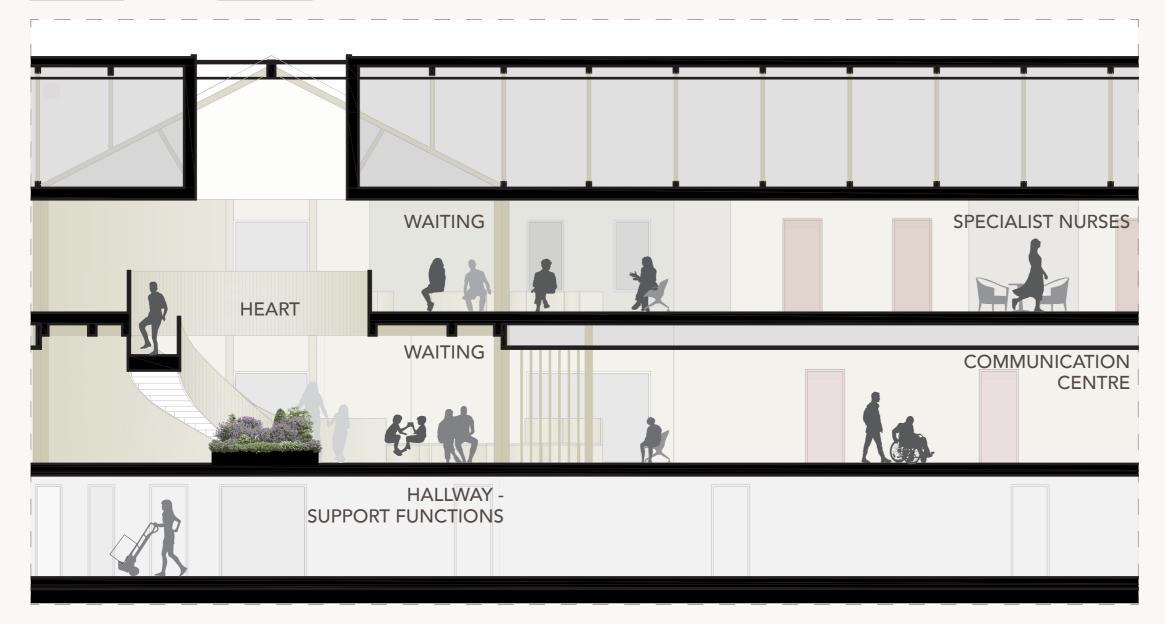














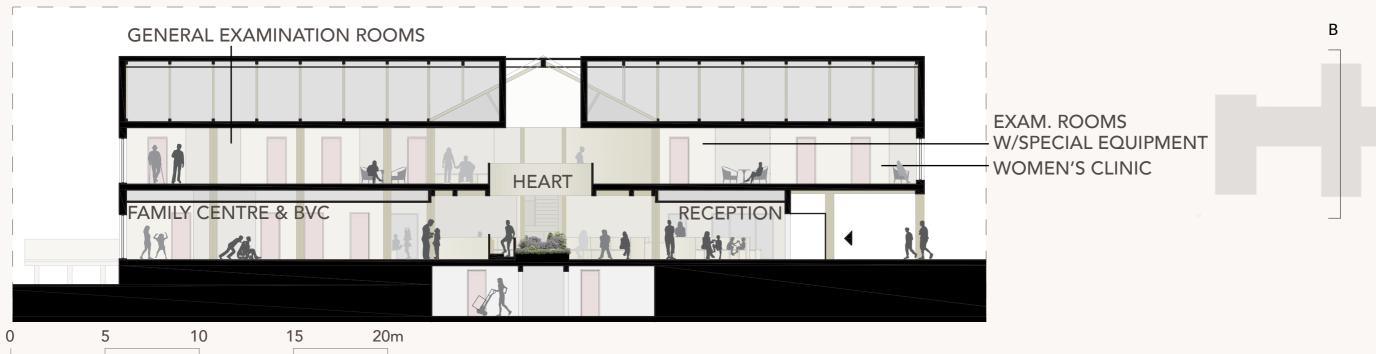


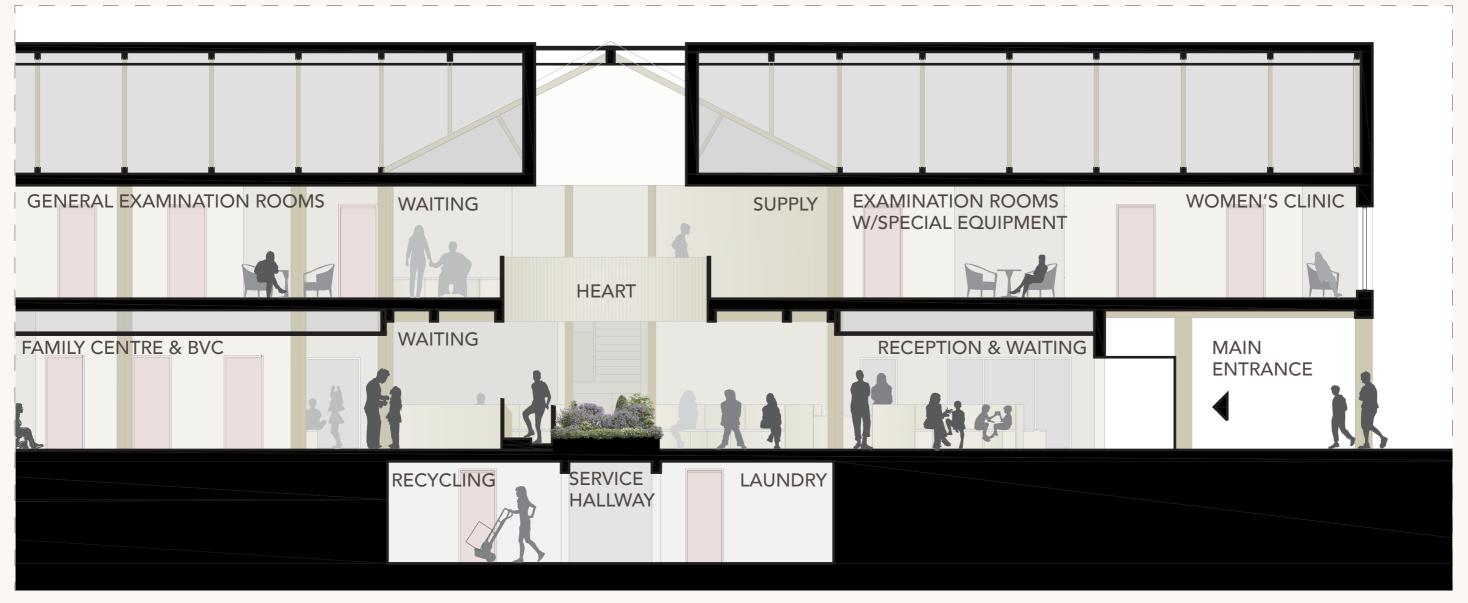












































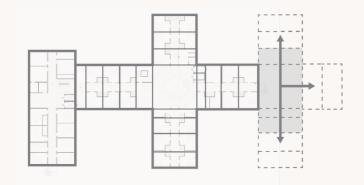
#### **STRUCTURE**

#### **EXISTING & MODULAR**

- MODULAR CLT-STRUCTURE
- REUSE THE EXISTING FOUNDATION, BASEMENT AND STRUCTURAL WALLS
- ADDITIONAL STRUCTURAL COLUMNS

#### **CLT: ELASTICITY & FOOTPRINT**

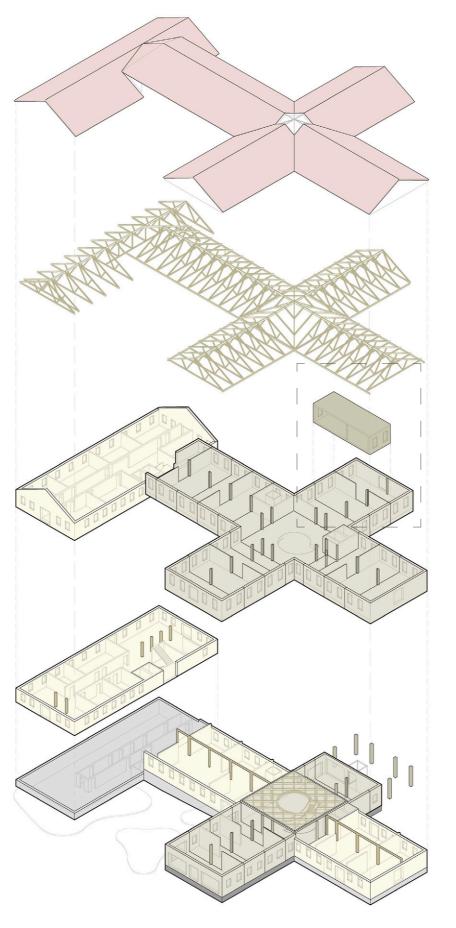
- POSSIBILITY FOR EXPANDING OR DECONSTRUCTION
- LOW CARBON FOOTPRINT



#### **STRUCTURAL ELEMENTS**

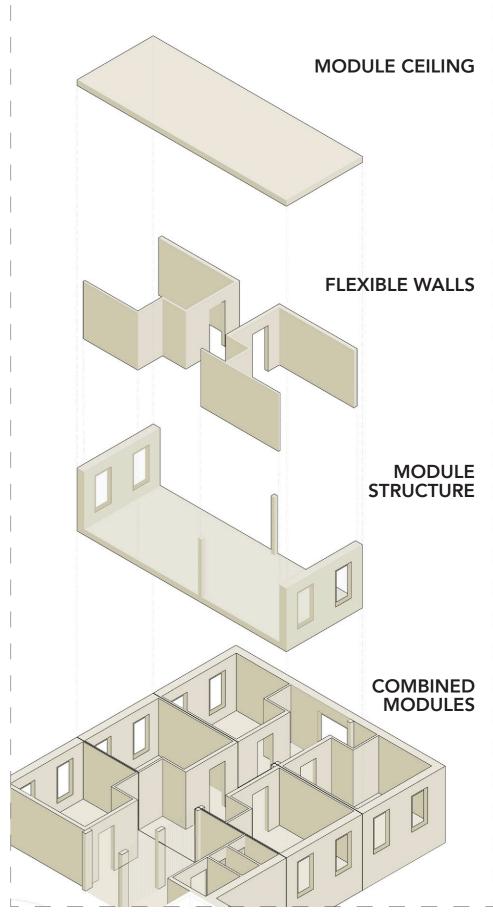
- REUSED AND NEW ROOF TILES
- TIMBER TRUSS STRUCTURE
- EXISTING LOAD BEARING BRICK WALLS
- NEW CLT MODULES
- EXISTING CONCRETE FOUNDATION
- NEW CONCRETE FOUNDATION
- ENGINEERED TIMBER COLUMNS

## STRUCTURAL AXONOMETRIC









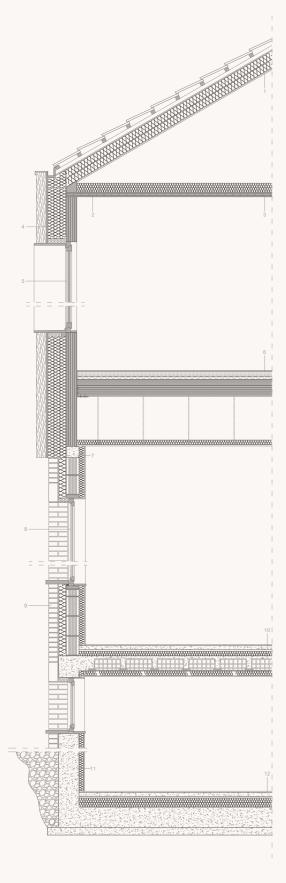




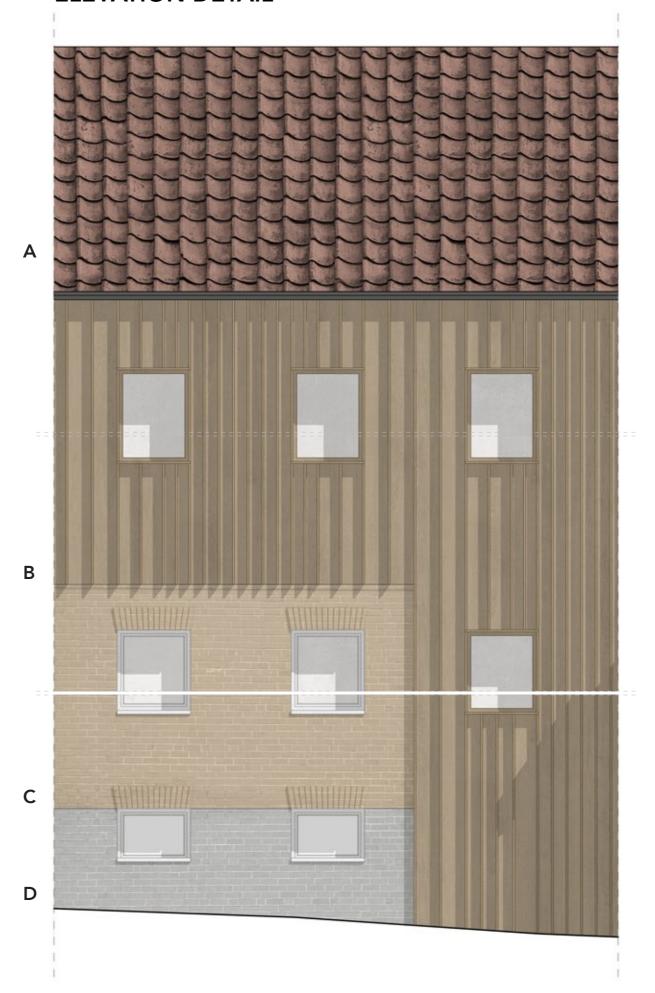


# STRUCTURAL DETAIL

 MODULAR STRUCTURE ADDED ONTO THE EXISTING BRICK WALL



## **ELEVATION DETAIL**







A SINGLE-CUP BRICK



**B** LARCH TIMBER



**B** BRICK WITH MUD PLASTER, COLOURED IN YELLOW



B CONCRETE AND STONE BRICK, MOLDED AND PAINTED GREY









## **SUSTAINABILITY**

#### **ECONOMIC**

- REUSING EXISTING BUILDINGS
- MODULAR STRUCTURE
- ELASTICITY

#### **SOCIAL**

- FUNCTIONAL GREEN SPACES
- COMMUNITY FUNCTIONS
- WOMEN'S CLINIC
- PERSON-CENTERED DESIGN
- STAFF WELLBEING

#### **ECOLOGICAL**

- INCREASING BIODIVERSITY
- LOW CARBON FOOTPRINT

