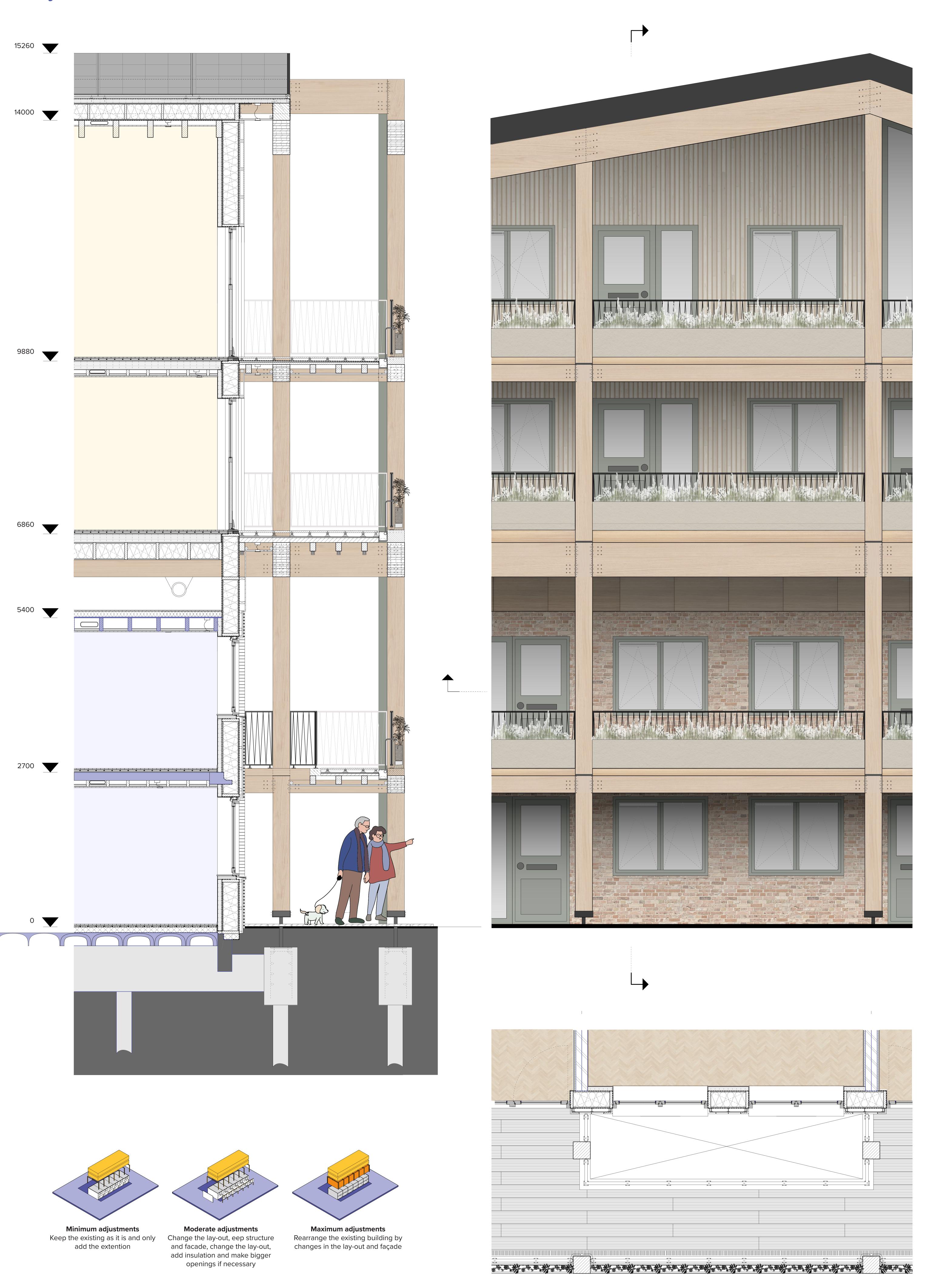
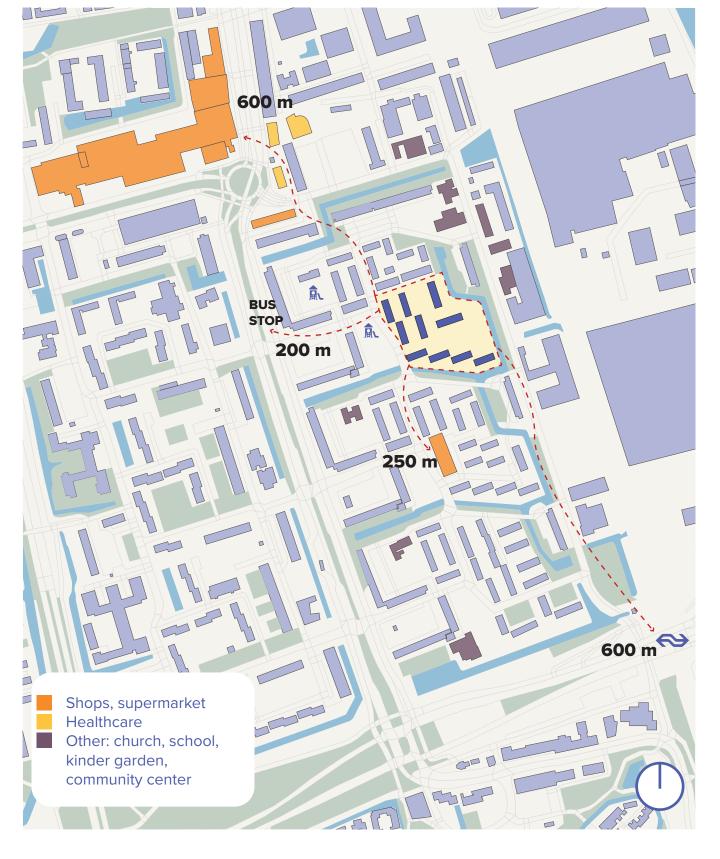
FAÇADE FRAGMENT 1:20



DETAILS 1:10 CONSTRUCTION PRINCIPLE direction of rainwater discharge 0 0 artificial lighting outside gallery solar panels (Unidek Solar Power system) water-resistant, coating cross laminated timber beam 600x300 mm cross laminated timber 75 mm vertical timber cladding 15 mm fire-retardant chipboard 18 mm horizontal timber battens 50 mm flax insulation 264 mm between timber studs vertical timber counter battens 25 mm (Rc=6,9 m2K/W) water-resistant, vapour open barrier fire-retardant chipboard 18 mm fire-retardant chipboard 18 mm vapourproof barrier flax insulation 264 mm between timber studs timber beams 300x100 (between beams (Rc=6,9 m2K/W) space for electricity and ventilation pipes vapourproof barrier timber cladding finishing fire-retardant chipboard 18 mm cross laminated timber 75 mm finishing optional Hardwood door frame 67x114 mm HR++ glazing outdoor gallery floor finishing wooden anti-slip planks 3000x220mm sloping insulation timber 85mm beams douglas wood 150x100mm **Roof** 1:5 scaled to 1:10 Hardwood door frame 67x114 mm insulated elevation cross laminated timber beam fire-retardant chipboard 18 mm flax insulation 264 mm between timber studs fire-retardant chipboard 18 mm cross laminated timber floor 150mm XPS insulation 100 mm floor heating pipes 14 mm, fermacell 20 mm wooden floor finishing 70x20 mm Concrete foundation 0 0 2 Concrete hollow-core floor slab 140 mm Brick load bearing walls Reinforcing openings with lintel 0 0 **(5)** Extension on the garden side with 1,5m 0 0 0 0 0 0 6 Foundation new columns Existing wooden roof Construction gallery columns 300x300 mm cross laminated timber column 300x300 mm © Cross laminated timber beams 600 mm timber cladding 15 mm horizontal timber battens 100 mm Expansion CLT construction 150 mm water-resistant, vapour open barrier Constuction balcony fire-retardant chipboard 18 mm Crawt space 600 mm flax insulation 264 mm between timber studs New wooden roof (+ hight beam 300mm) (Rc=6,9 m2K/W) space for ventilation, water and other pipes fire-retardant chipboard 18 mm vapourproof barrier EXISTING CONSTRUCTION EPS insulation 100 mm DucoTop 50 'ZR' grille fire-retardant chipboard 18 mm timber beams 300x100 (between beams 1,5m 10 m 2,5m NORTH Hardwood window frame space for electricity and ventilation pipes 67x114 mm HR++ glazing Sound insulation 40 mm timber cladding finishing Transistion existing to new 1:5 scaled to 1:10 MODULAIR AND FLEXIBLE HUB Different façade elements cross laminated timber column 300x300 mm brick slips 28x50x210 mm joint 10 mm (Mechslip system) Mechslip bracket system 70 mm elevation existing concrete beam 300x300 mm water-resistant, vapour open barrier existing hollow-core floor slab 140 mm fire-retardant chipboard 18 mm water-resistant, vapour open barrier flax insulation 264 mm between timber studs XPS insulation 100 mm (Rc=3,1 m2K/W) (Rc=6,9 m2K/W) PE foil vapour barrier fire-retardant chipboard 18 mm floor heating pipes 14 mm, fermacell 20 mm vapourproof barrier filling mass cross laminated timber 75 mm wooden floor finishing 70x20 mm finsing optionally steel column foot hight differs per floor Open elements: Closed elements: windows with elevation new concrete optional timber timber cladding, foundation for the columns, steel reinforcement insulation & CLT shutters Modulair and flexible structure Easy to expand or adjust to the CLT floor + Connection detail situation Beam & column insulation **Foundation** 1:5 scaled to 1:10 CLIMATE PRINCIPLE sound insulation HemKor Kingspan 30 mm exisiting load-bearing brick wall 205mm (two layers) sound insulation HemKor Kingspan 30 mm Hardwood window frame 67x114 mm HR++ glazing optional finishing (openable) Rain water management Climate concept winter & summer Hardwood door frame 67x114 mm HR++ glazing steel railing cross laminated timber column 300x300 mm brick slips 28x50x210 mm joint 10 mm Mechslip bracket system 70 mm water-resistant, vapour open barrier fire-retardant chipboard 18 mm outdoor gallery floor flax insulation 264 mm between timber studs finishing wooden anti-slip (Rc=6,9 m2K/W) planks 3000x220mm fire-retardant chipboard 18 mm vapourproof barrier cross laminated timber 75 mm finsing optionally Ventilation type C in and out through ventilation grilles Rainwater from roof collected and transported by drainpipe 2 Rainwater from the gallery access collected and transported by drainpipes Mechanical extraction in kitchen and bathroom 10 The existing 60's homes get a new façade with insulation 3 Filter to clean rainwater before collecting Added matierial is wood to introduce more natural materials as con-Floor heating in winter and cooling in summer Rain water basin for collecting and storage of rainwater Central heat pump, low temperature heating with ground source trast to the brick and concrete postwar neighbourhoods Every apartment has a heat pump that extracts heat from Water from the basin to the pump in the hub to use it for laundry and toilets On the south side the balcony construction provides shade in the Rainwater will be pumped up to water the plants on the façade (closed system, ventilation air for warm tap water summer and all dwellings get sun screens Horizontal detail 1:5 scaled to 1:10 Transition space between exisitng and new, crawl space and space remaining water returns into the basin Energy supplied by the sun from pv-panels on the roof for ventilation and other pipelines

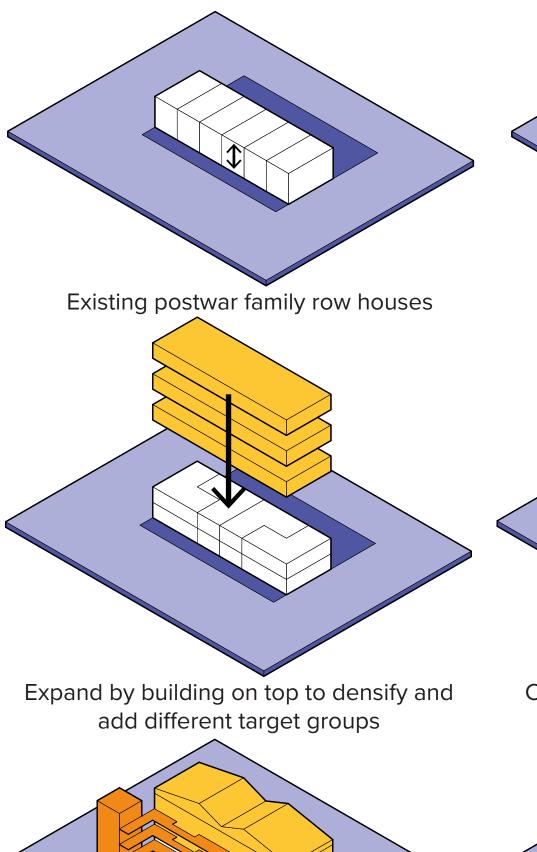
Betje Wolff

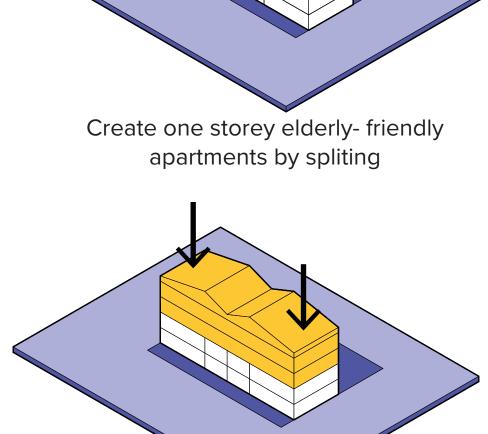
A toolbox for the transformation of postwar single family houses into an ageing and elderly-friendly living environment

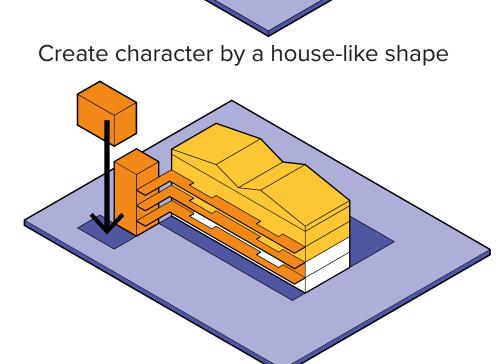




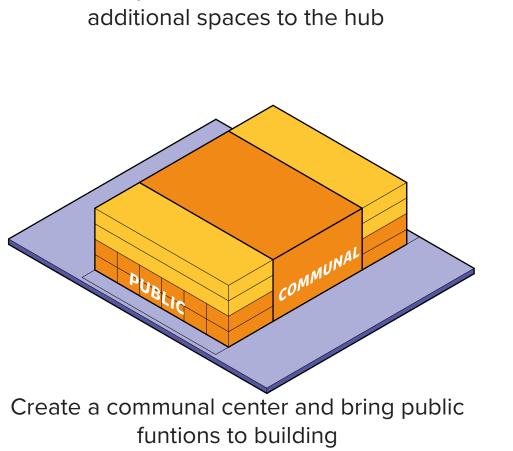
THE TOOLBOX

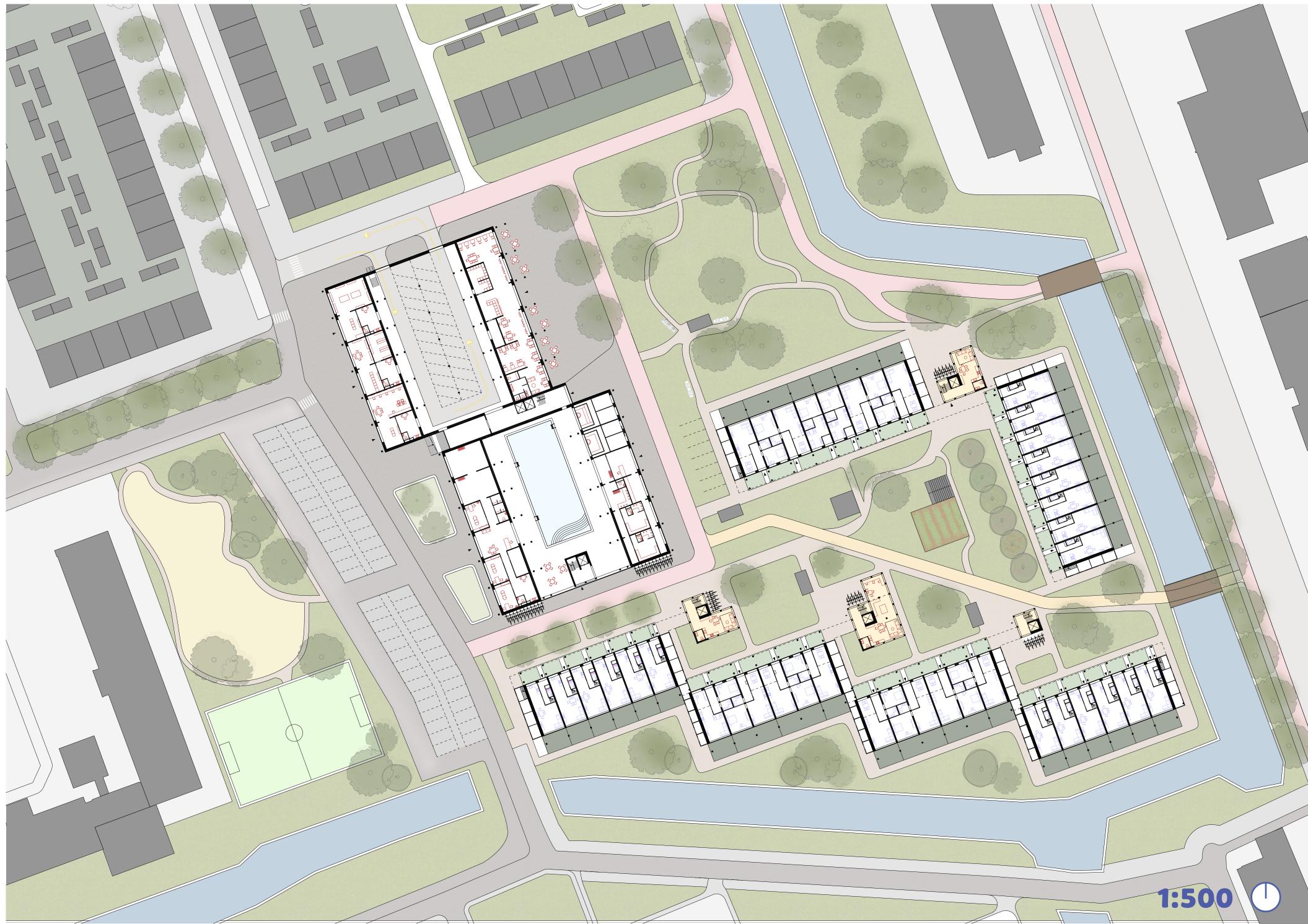






Add extra spaces for encounter and other





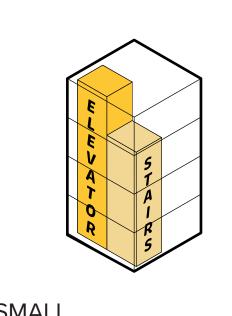
THE HUB

Use the space in between two blocks to

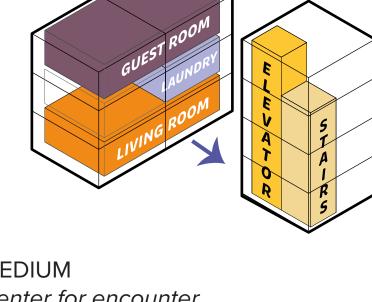
create a larger building

Add an external access hub for elevator

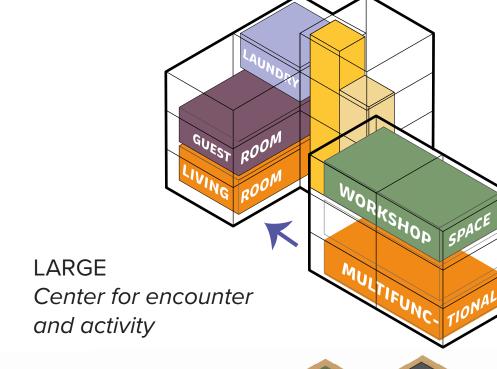
and stairs, and connect with gallery access

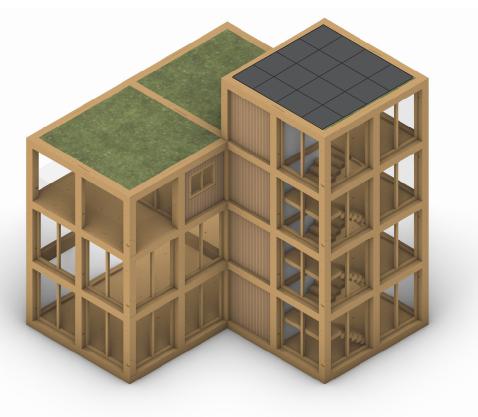


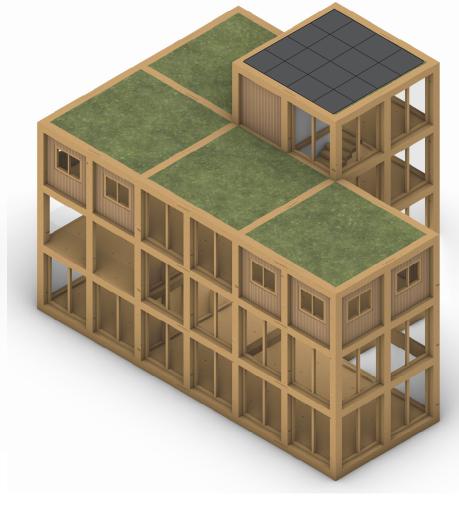
SMALL Access area

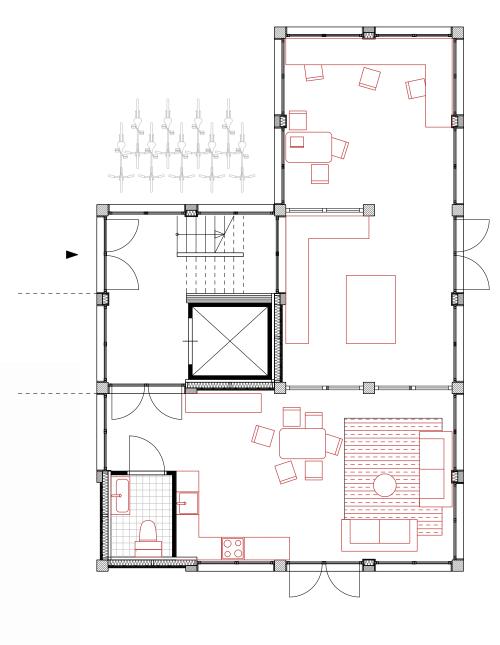


MEDIUM Center for encounter

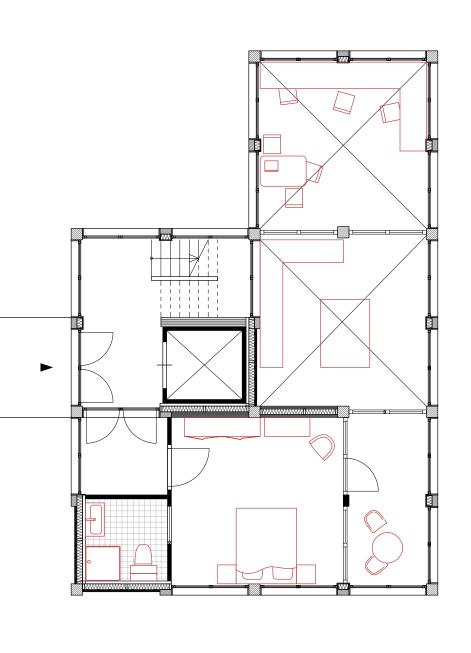




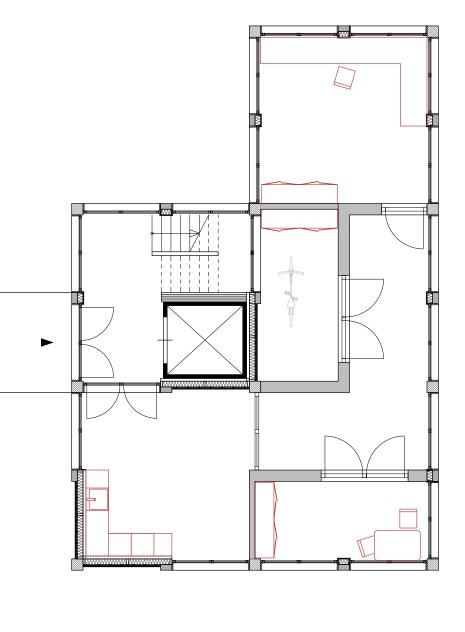




Ground floor LARGE Communal living room/kitchen, workshop space, shared office space

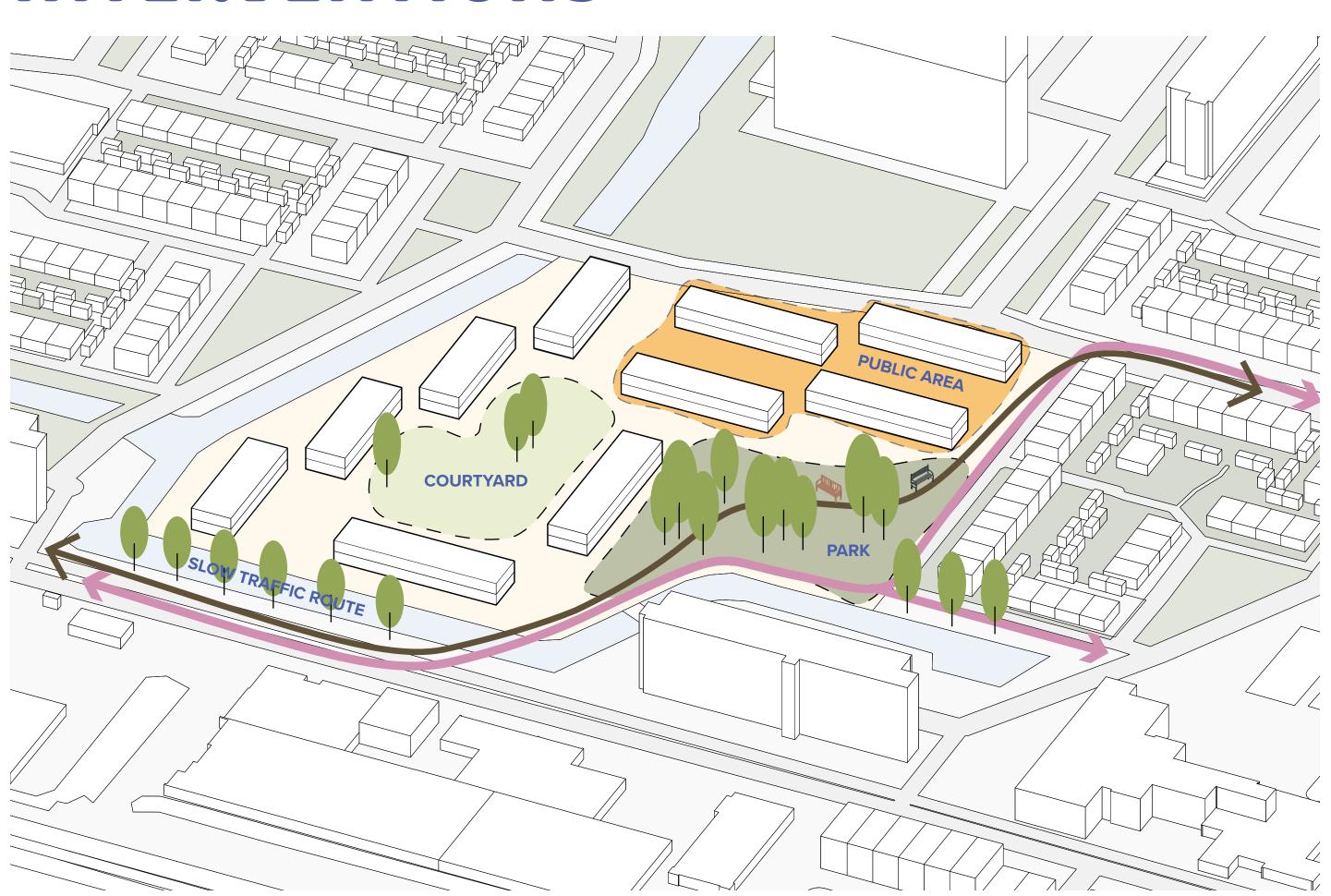


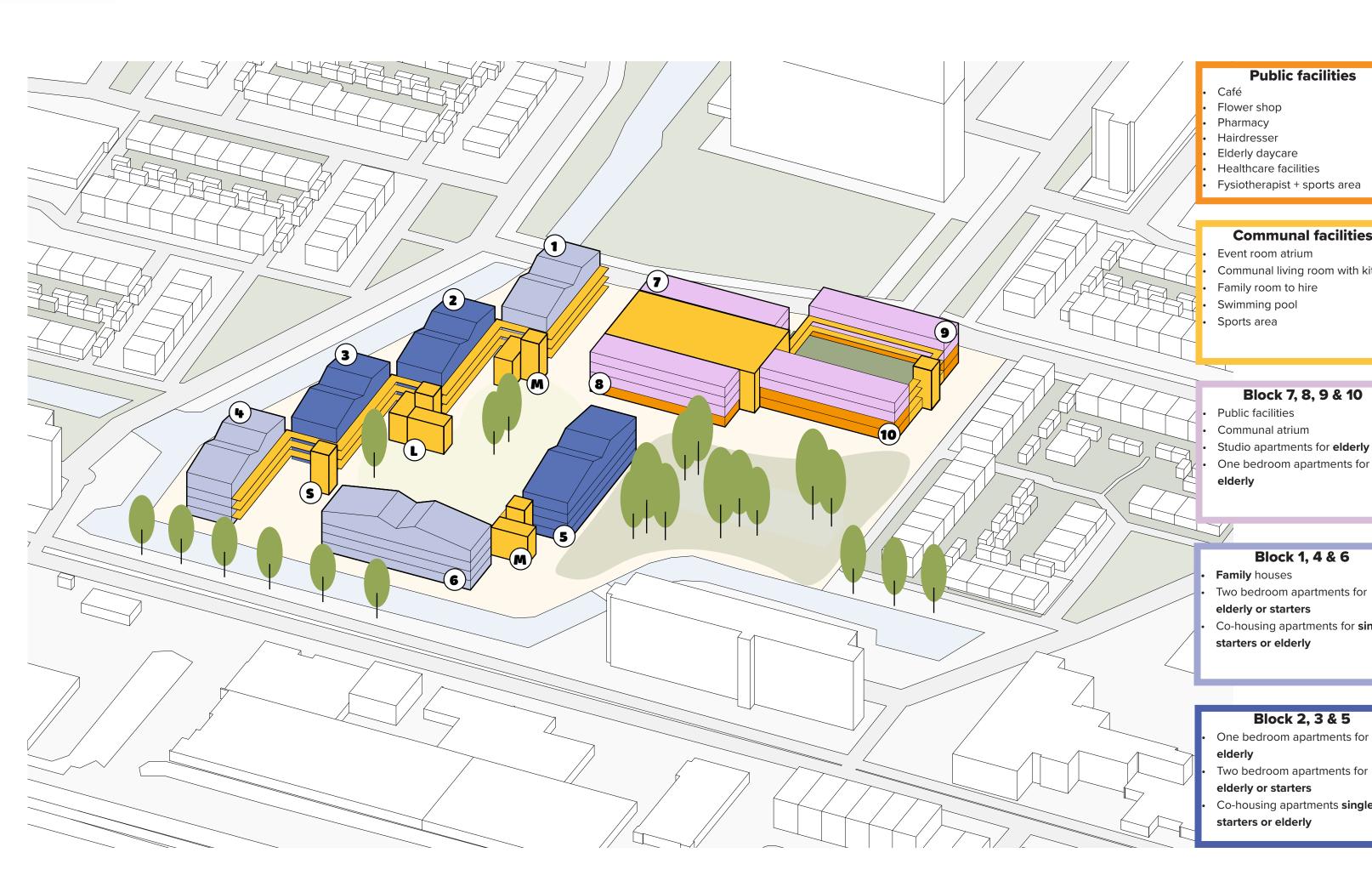
First floor LARGE Guest room with balcony, void



Second floor LARGE Laundry room, workshop spaces to hire for residents

INTERVENTIONS







Block 7, 8, 9 & 10 Studio apartments for **elderly**

Two bedroom apartments for Co-housing apartments for **single**

One bedroom apartments for Two bedroom apartments for Co-housing apartments **single**

Aagje Deken Park PUBLIC BUILDING WITH COMMUNAL ATRIUM Looking for... A place where Betty can have social interaction with people and where healthcare is available one bedroom apartments one bedroom apartments communal atrium Name: Betty Family situation: Widow public funtions swimming pool public funtions STREET SIDE PARK SIDE public funtions roof garden public funtions public funtions Third floor block 7-10 1:200 Familiy room (to hire) Communal kitchen 21 Communal center (event space) One bedroom apartments 65 m² 32: Second floor block 7-10, communal center 1:200 Park view Day care for elderly Guest room Roof garden with jeu de boules Pedicure Doctor, healthcare facility Laundry room Studio apartment 45 m² 12x First floor block 7-10, roof garden 1:200 45 m^2 65 m² 32 x Visual connection to communal atrium Section A block 7-8, public plinth & communal atrium 1:200 1 Café, terrace with park view 2 Indoor parking space (22 spots) Flower shop Pharmacy Hairdresser Parking space mobility scooters Twiming pool with sauna 8 Entrance swimming pool, dressing rooms Ground floor block 7-10, public plinth Physiotherapist 1:200 Sports area Workshop/storage space

Betje Wolff Courtyard PRIVATE LIVING COMMUNAL COURTYARD Looking for... Two storey family A smaller apartment houses where they still can be active, have social contact, but also their private home Name: John and Claire Age: 67 & 65 Family situation: Married & two children **Three bedrooms** Courtyard side Third floor block 1-2 & hub M 1:200 Storage Second floor block 1-2 & hub M 1:200 24 x **Garden side** First floor block 1-2 & hub M 1:200 Section block 3 & hub LARGE Ground floor block 1- 2 & hub M 1:100 1:200 Façade elevation block 1 - 2 1:200