

Housing demand in Derby

According to Derby City Council, 2017

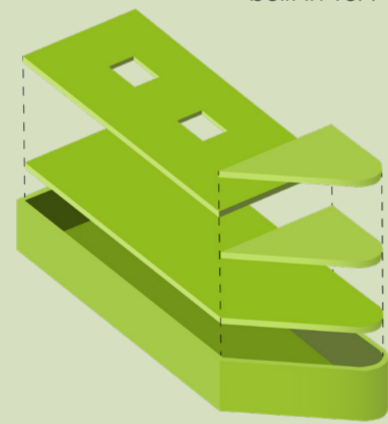
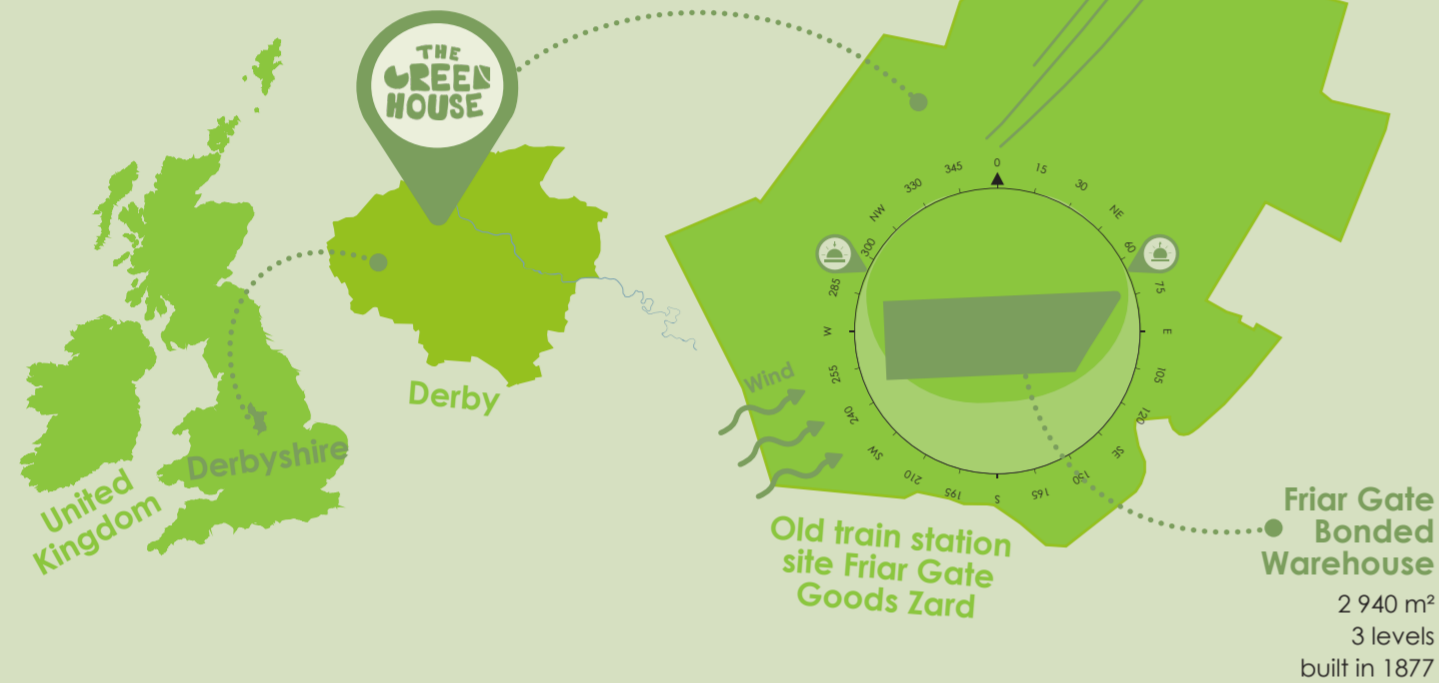
Demand: 16 388 new homes

Supply: 11 000 new homes

How co-living can contribute to sustainability



Site and building analysis



Historically significant elements of the building



THE GREENHOUSE

THE GREENHOUSE

The Friar Gate Bonded Warehouse in Derby, UK, is a Grade II listed building near the city centre. Due to its location and cultural significance, the building holds a lot of potential for Derby and its community.

The proposed conversion of the Bonded Warehouse into a Co-Living Space for families aims to prove that sustainable living can mean community and action rather than sacrifice and scarcity.

Home

Due to the cost-of-living and housing crises, Derby needs affordable homes. Co-Living could lower rents and support parents by fostering a close-knit community.

Community

By providing an event space and inviting the public, the Bonded Warehouse could become a vibrant cultural hub for everyone and connect people who support climate action.

Climate emergency

Reusing and recycling as much as possible, the Bonded Warehouse could be built from sustainable materials and used in a way that benefits the climate and environment.



Provide a home for families in Derby

Main entrance, View 1

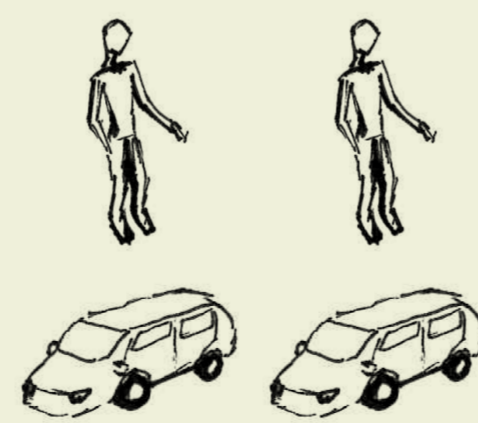


Enrich Derby's community and culture

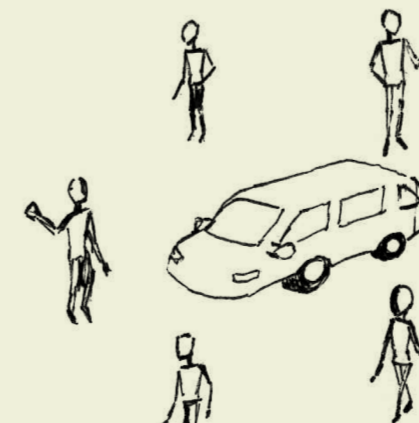


Focus on sustainability in every aspect

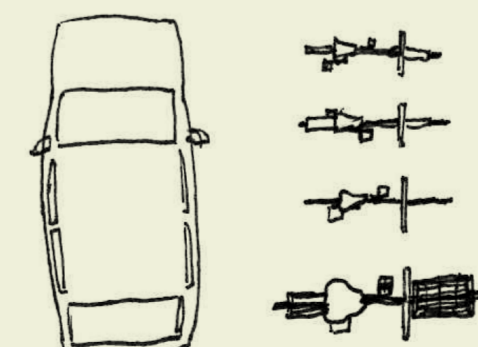
Communal ownership concept sketches



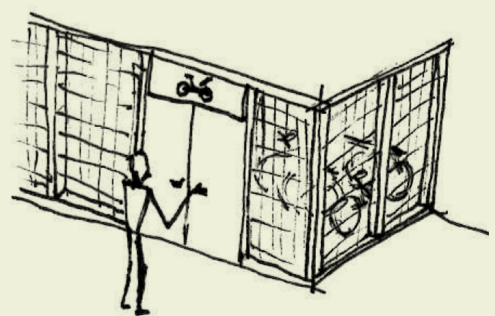
PRIVATE OWNERSHIP



COMMUNAL OWNERSHIP

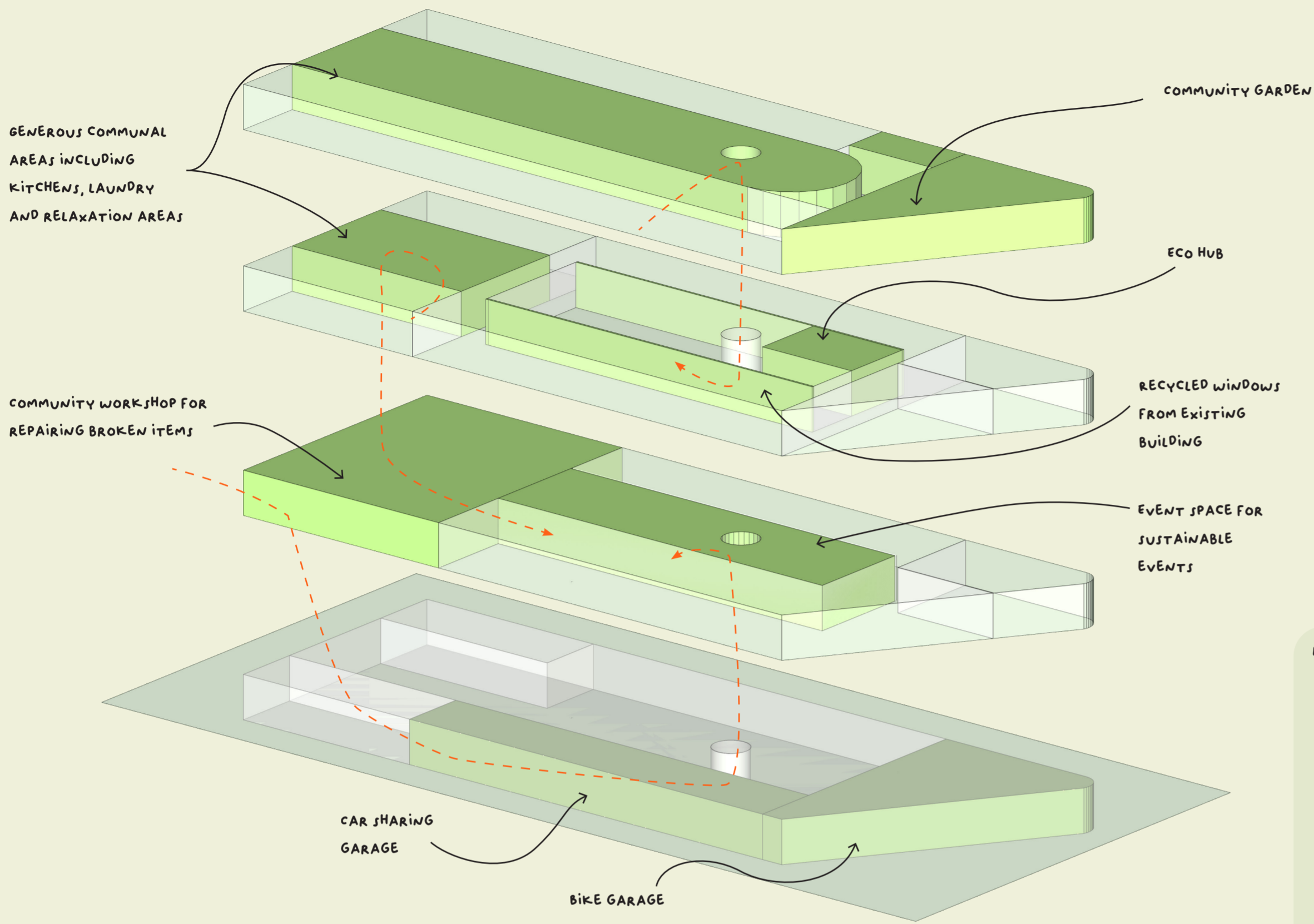


SPACE DEMAND OF CAR VS. BIKE






A SAFE BIKE GARAGE MAKES CYCLING EASIER

Sustainability Concept



LEGEND

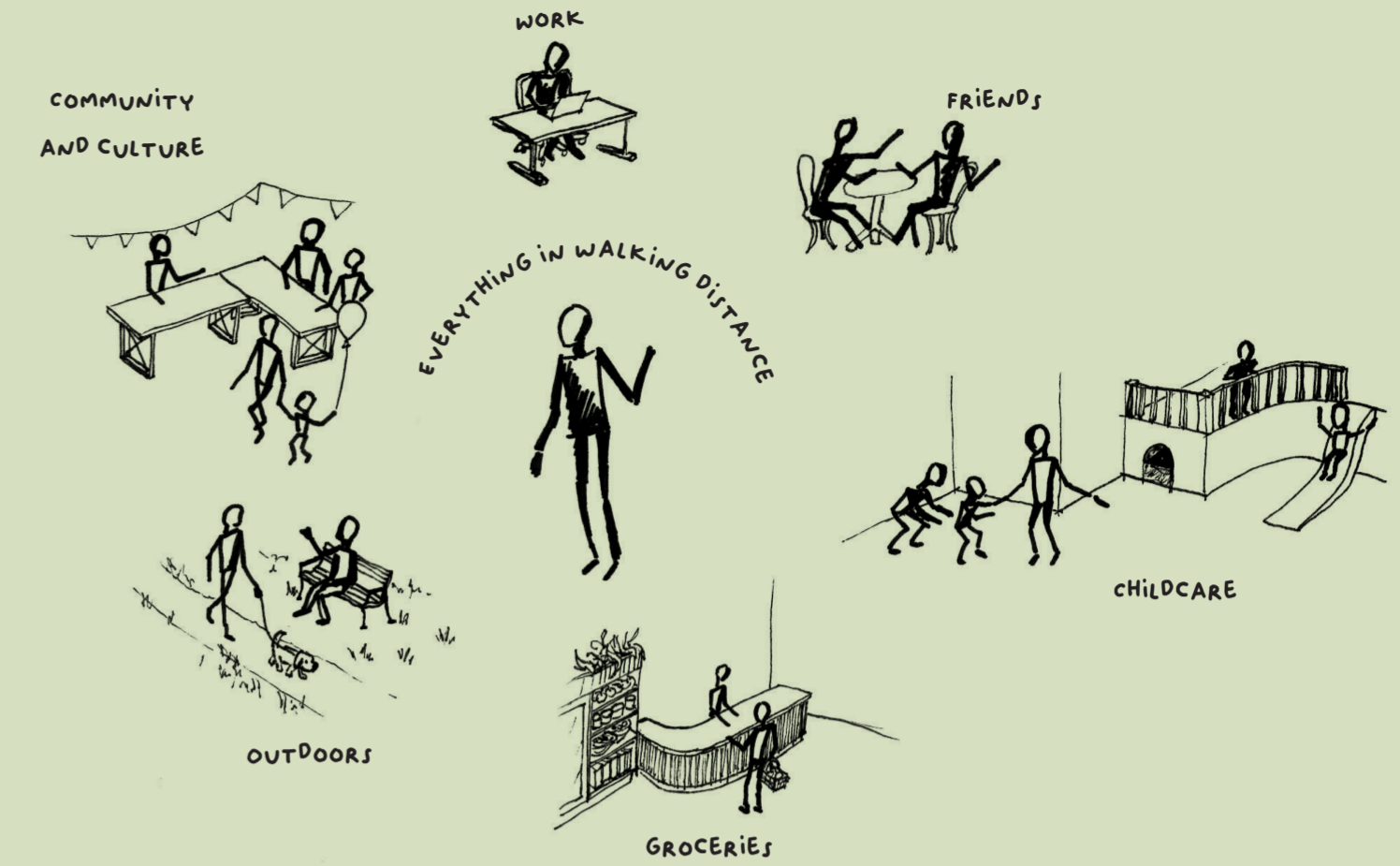
-  Areas that directly support sustainability
-  Apartments and other areas that do not directly support sustainability
-  Short ways to work, childcare, community and shopping. No car necessary!

Materials



- 1 Acoustic wall panels oak, oiled
- 2 Recycled wood sourced through Community Wood Recycling
- 3 Cross grain birch plywood, different thicknesses, oiled and untreated
- 4 Carpet-Tiles for commercial use, evergreen
- 5 Powder coated, aluminium and steel, in black, off-white and dark green
- 6 Terrazzo with recycled elements
- 7 Reused glass from existing windows
- 8 Dark green upholstery fabric, 100% recycled polyester
- 9 Recycled lorry tarp, printed red, sourced through Curtain Kollekt UK
- 10 Clay plaster, smooth finish, sourced from UK
- 11 Woven rattan, Wiener Geflecht
- 12 Industrial parquet, upright rowed white oak pieces

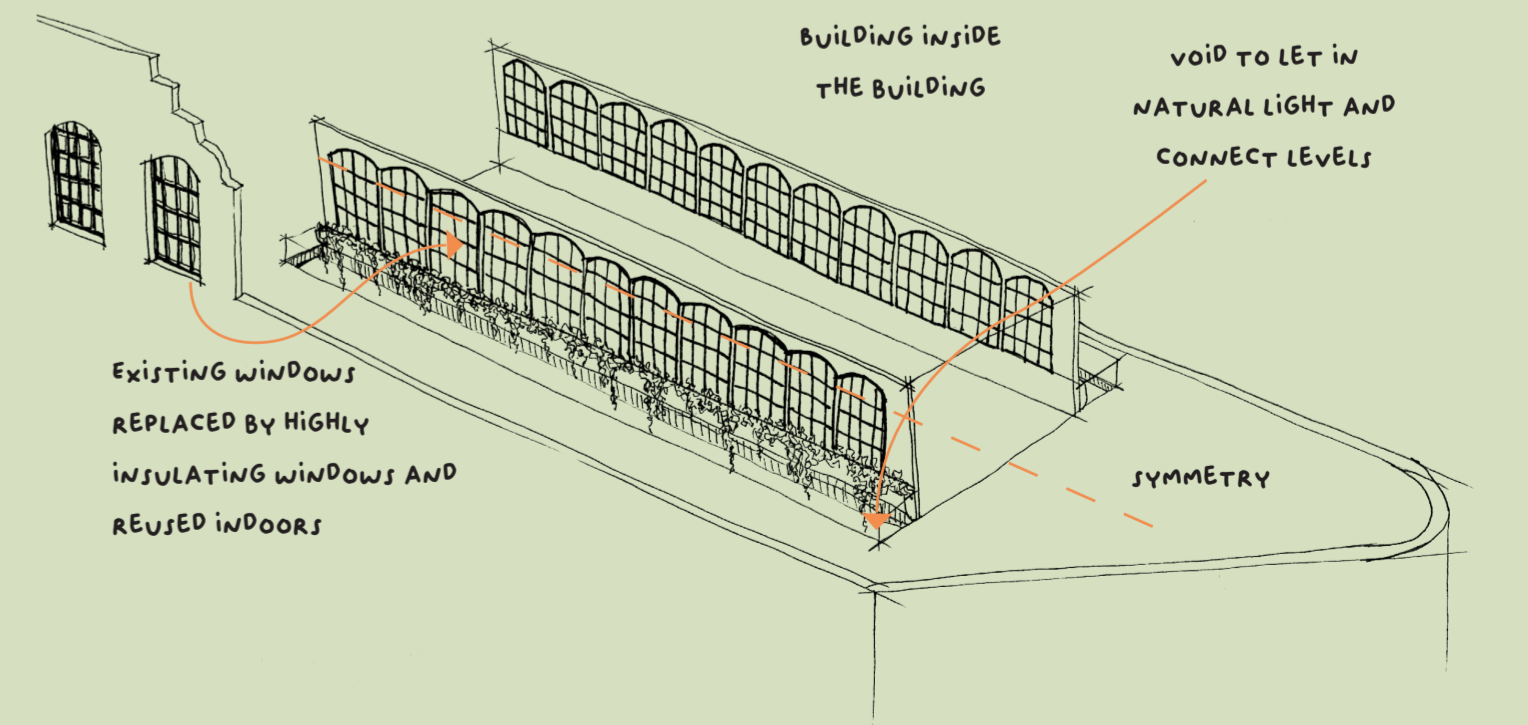
Proximity Concept



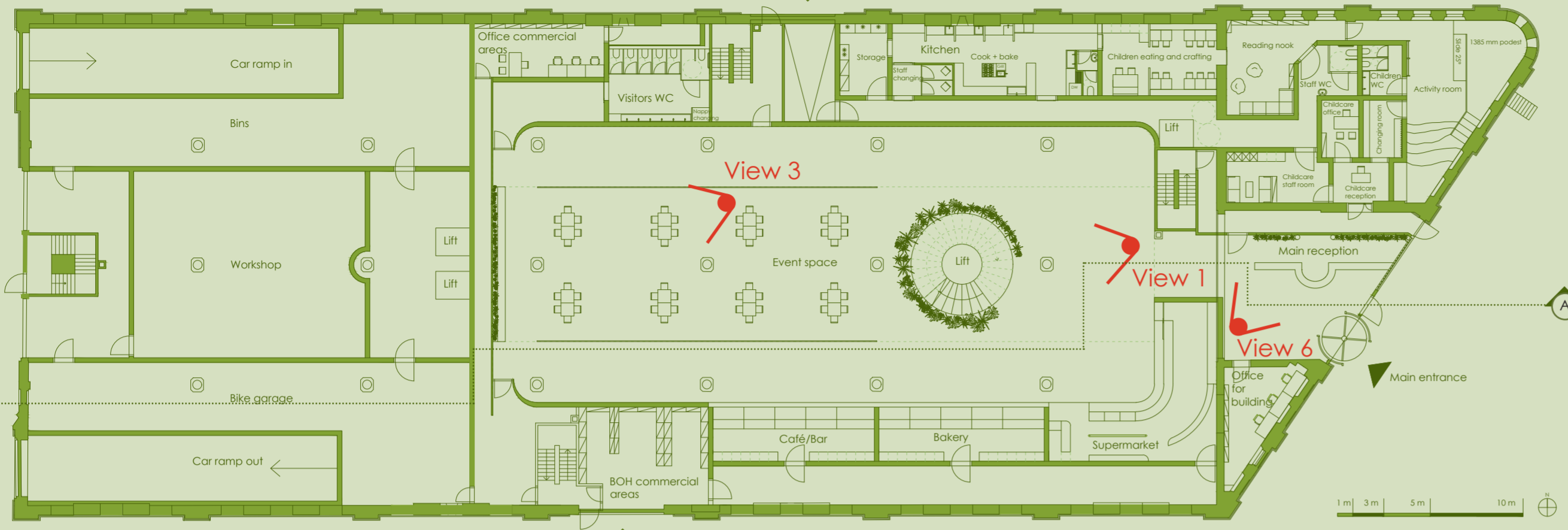
The ECO-HUB, View 2



Design concept sketch



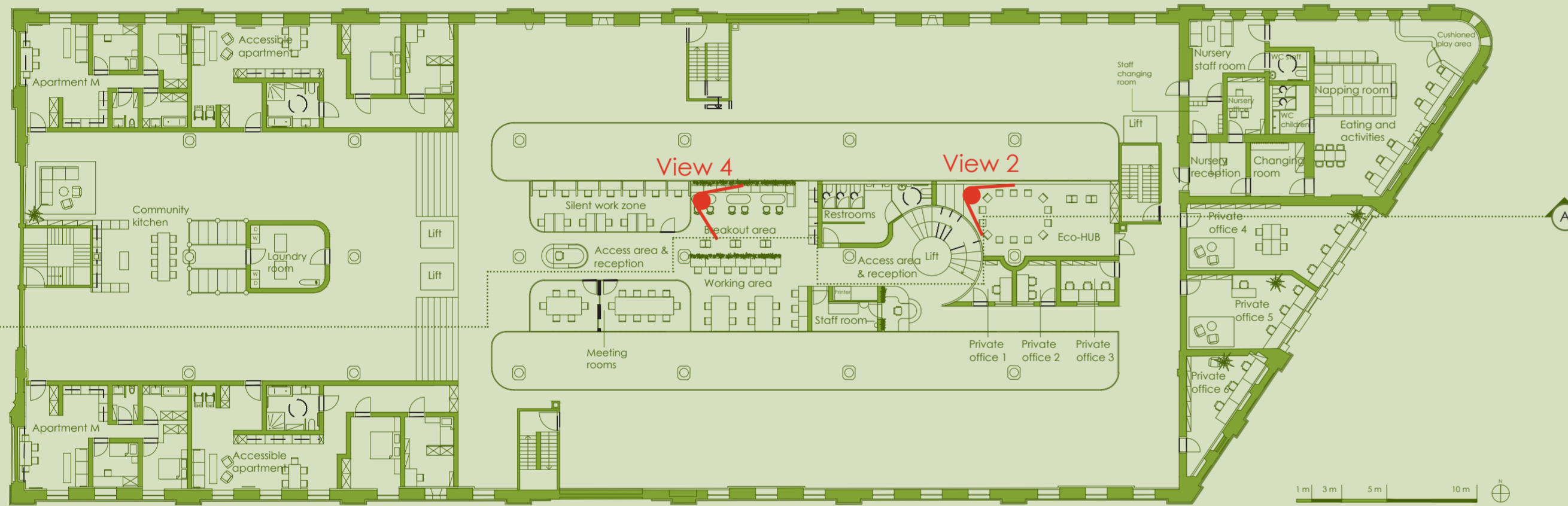
Ground floor



Event space, setup for a party, View 3



First floor



Co-working space, breakout area, View 4



Second floor



Community area for residents, View 5



Main reception, View 6



Shop for community garden harvest and 2nd hand items, View 8



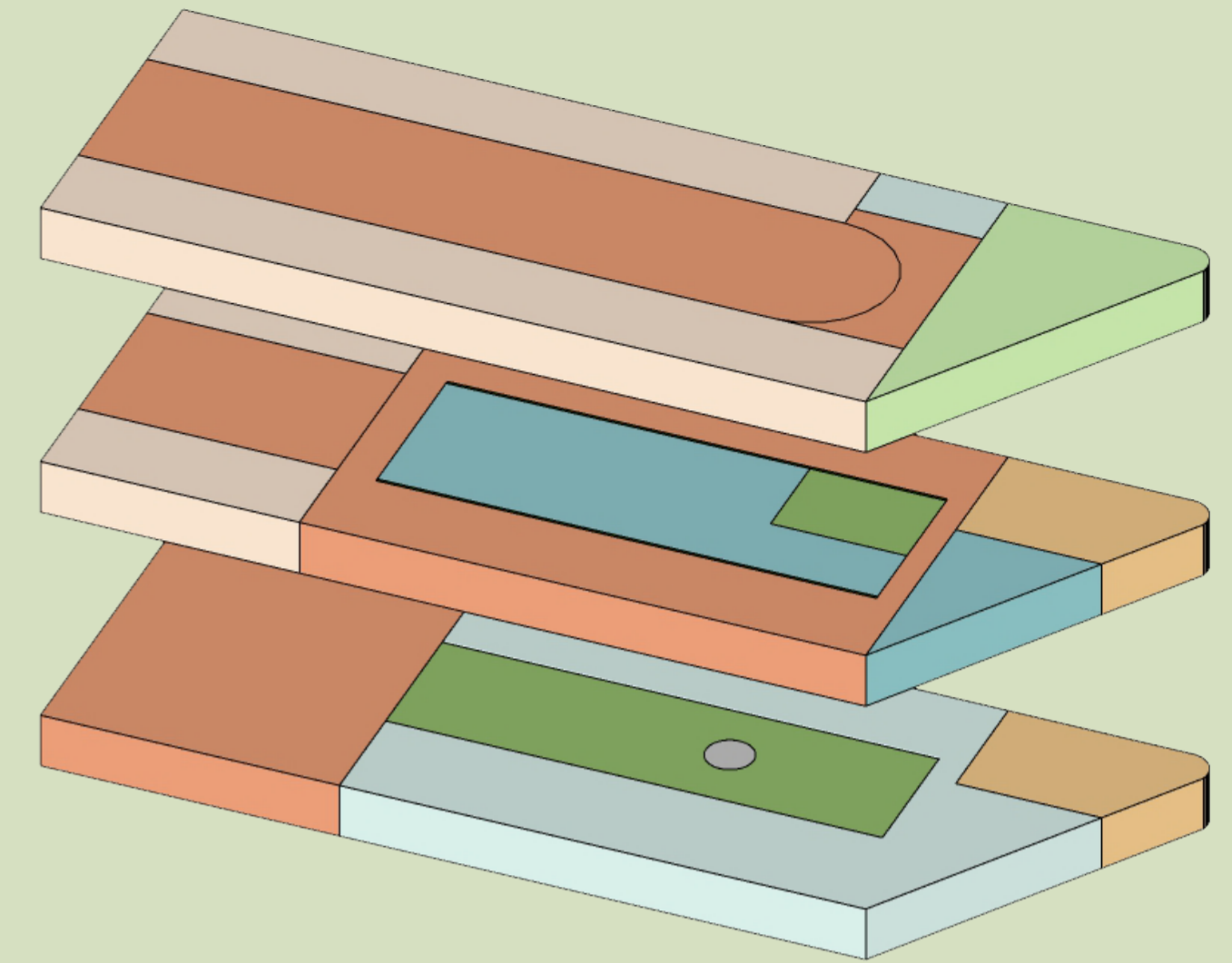
Community area for residents, View 7



Community area for residents, View 9



Zoning



- Eco-Hub and Event Space
- Community Areas
- Community roof garden
- Childcare
- Commercial Areas
- Apartments
- Co-Working space and Offices

Longitudinal section AA through the building

