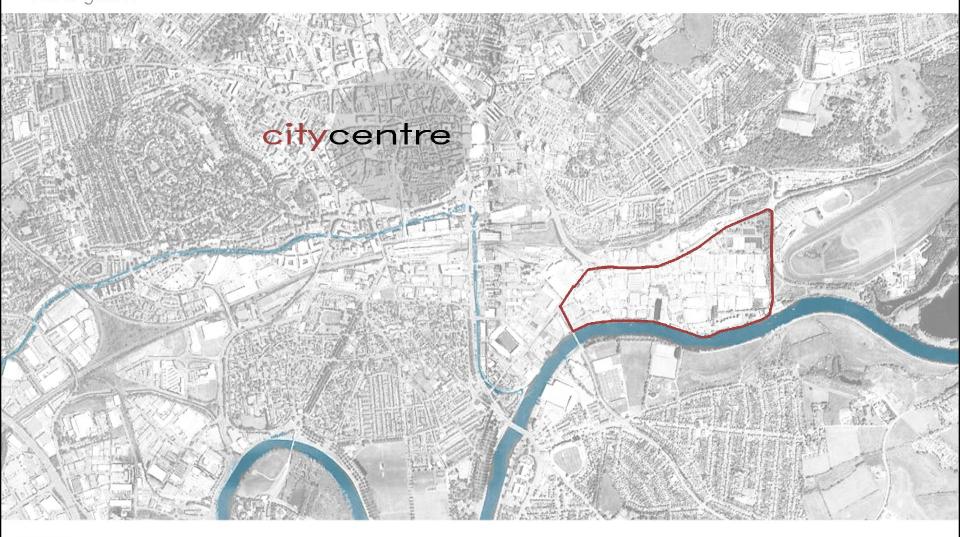


ZORNICA PETROVA

IVAILO ALEXANDROV

GEORGI GROZDANOV

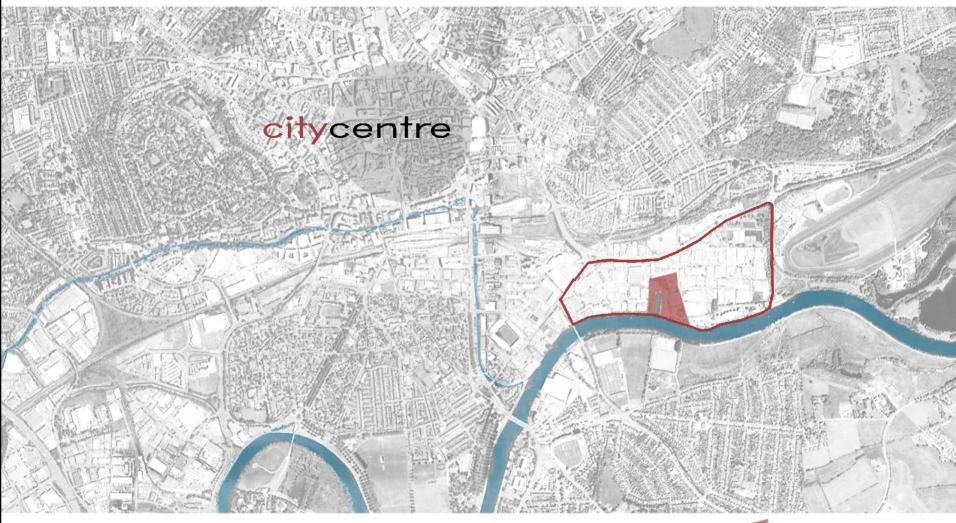
situation Nottingham



river Trent

border of the industrial region

situation Nottingham



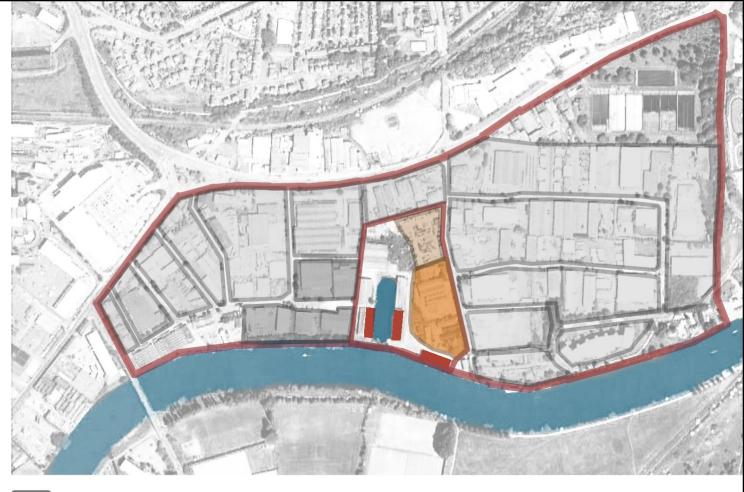
river Trent

border of the industrial region

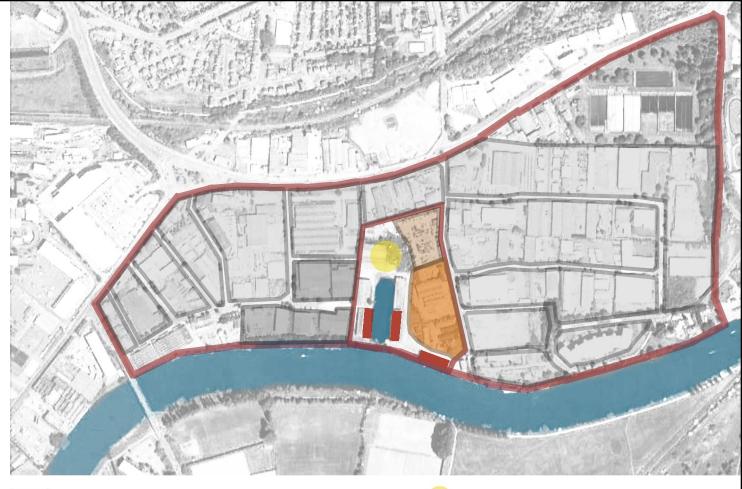


Trent Basin site



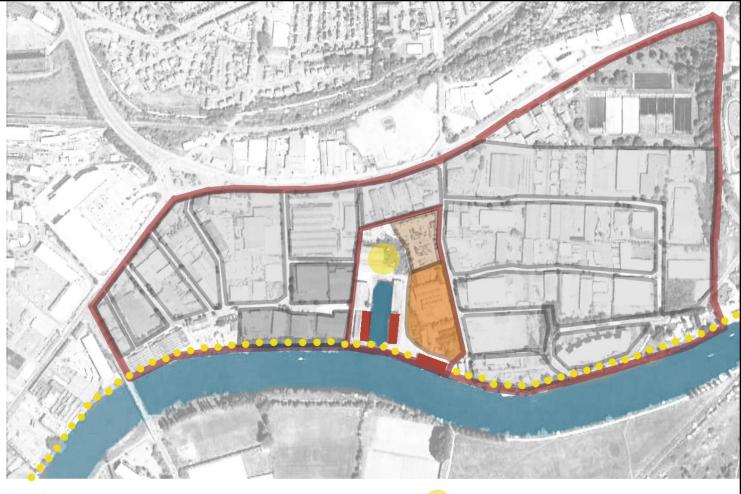


- proposed residential buildings
- proposed comercial buildings
- project area
- proposed housing in 2nd phase
- community centers



- proposed residential buildings
- proposed comercial buildings
- project area
- proposed housing in 2nd phase
- community centers







proposed comercial buildings

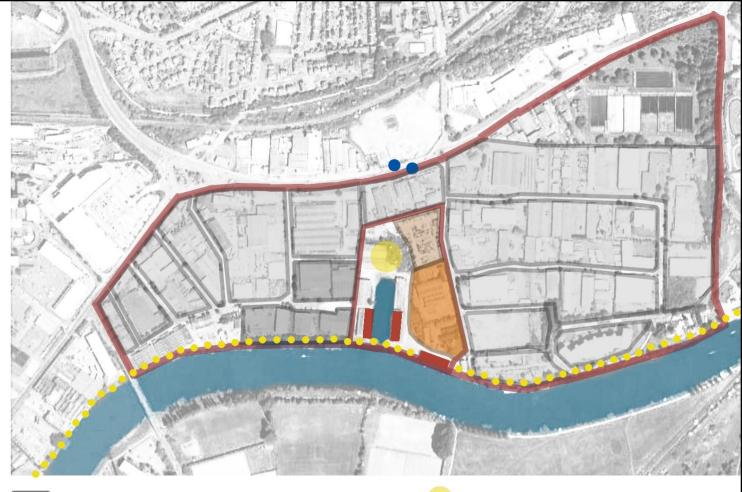
project area

proposed housing in 2nd phase

community centers

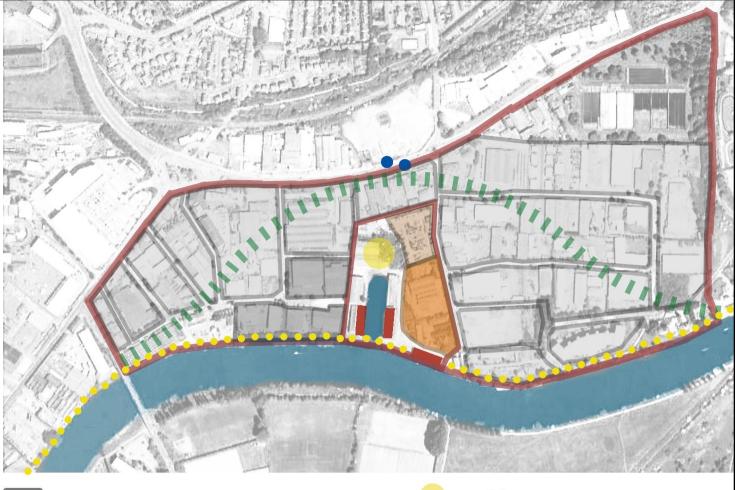
public space

continuation of the river side public footpath towards the citycentre



- proposed residential buildings
- proposed comercial buildings
- project area
- proposed housing in 2nd phase
- community centers

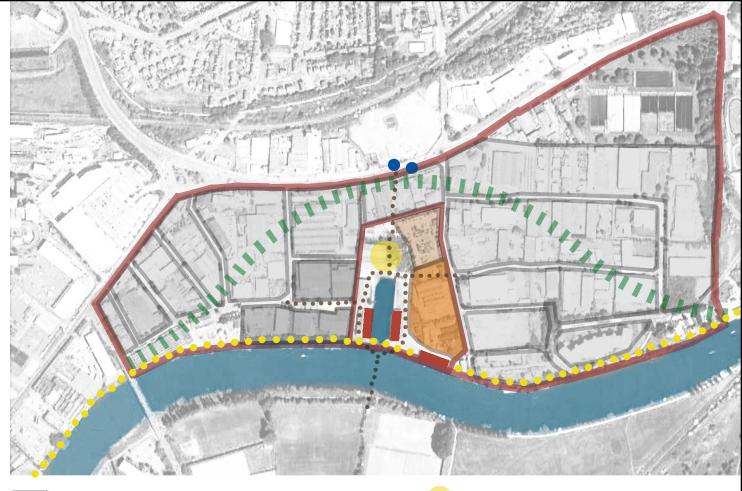
- public space
- continuation of the river side public footpath towards the citycentre
- bus stop



- proposed residential buildings
- proposed comercial buildings
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- proposed housing in 2nd phase
- community centers

- public space
- continuation of the river side public footpath towards the citycentre
- bus stop
- ||||| green corridor proposal



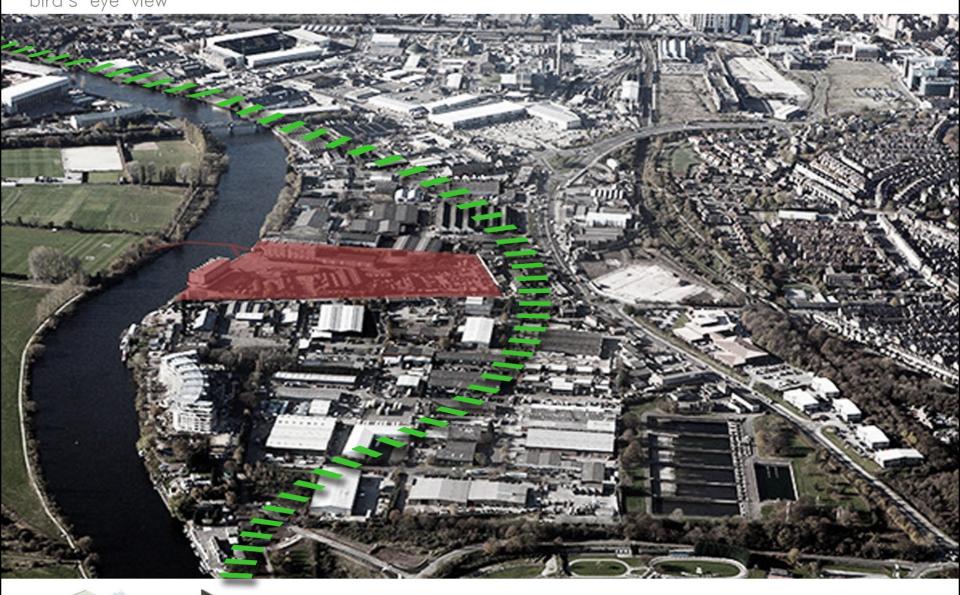


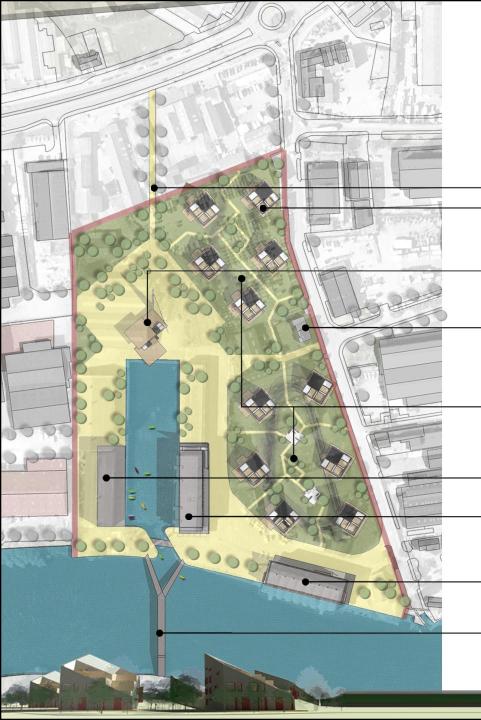
- proposed residential buildings
- proposed comercial buildings
- project area
- proposed housing in 2nd phase
- community centers

- public space
- continuation of the river side public footpath towards the citycentre
- bus stop
- ||||| green corridor proposal
- •••• new pedestrian paths



situation bird's eye view





situation Trend Basin site

pedestrian path connecting the site with the public transport

residential structure for 3 families

symbolic structure which creates stunning setting for civic gatherings, celebrations and ephemeral events

situated between the two residential complexes the victorian house is suitable for a kindergarden

artificial hill covering the car parking and creating an open green space in order to provides people with places where they can gather, recreate and play

new community center providing activities both during school and afterschool, alowing neighbours to engage in the process of building a stronger community

multistorey vegetable farm

restaurant, cafe, art gallery

pedestrian bridge connecting the site to the park and the sport facilities



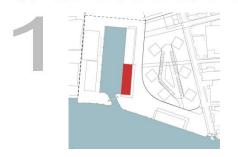
warehouses present condition

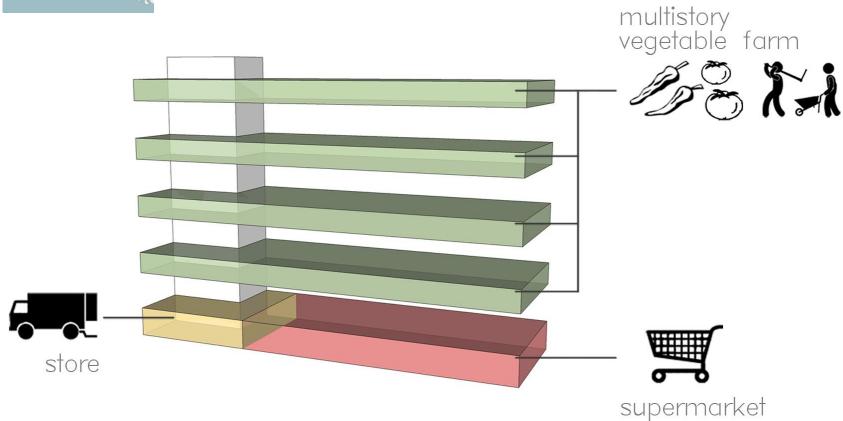




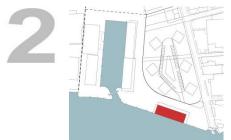


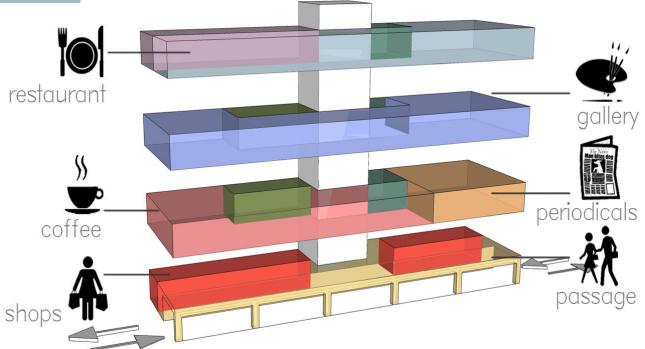
warehouse



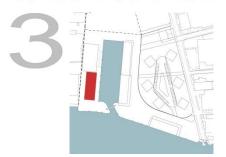


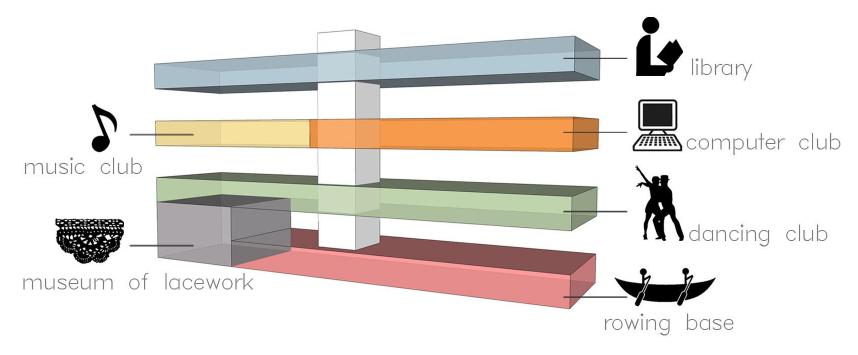
warehouse





warehouse









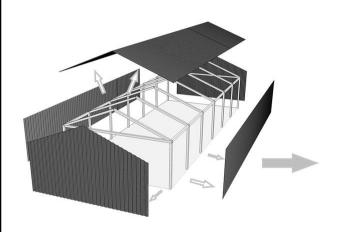
reused materials existing warehouses



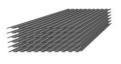


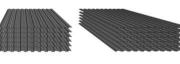
reused materials

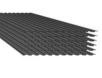
scheme

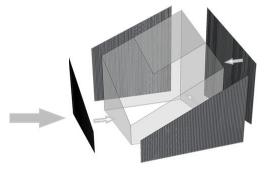












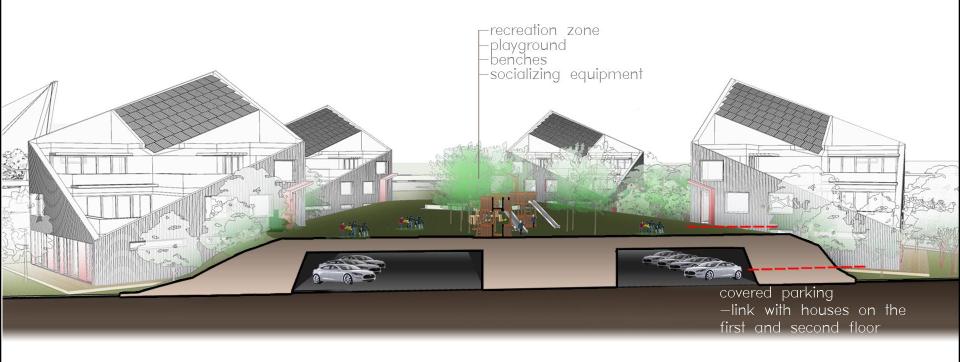
REUSED

tin - 9365 m2bricks - 460 m3 concrete pannels - 1440m2 'dress' the new house

tin - 4250 m26houses x 640m2 reconstructed warehouse 810m2 bricks - 100 m3 concrete pannels - 1440m2

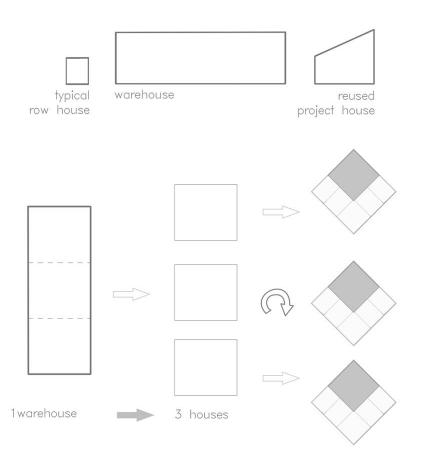


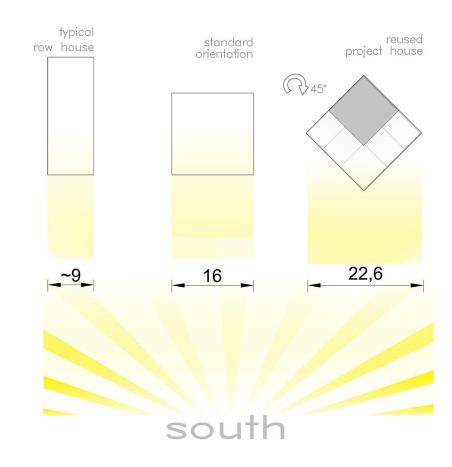
the hill scheme





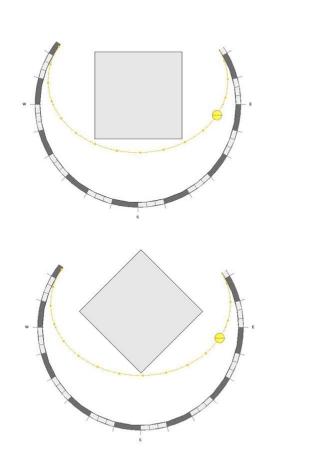
scale factor/ sunlight

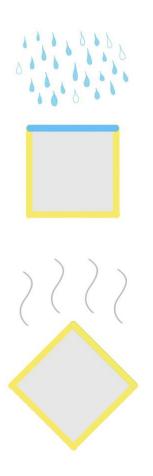






moisture prevention





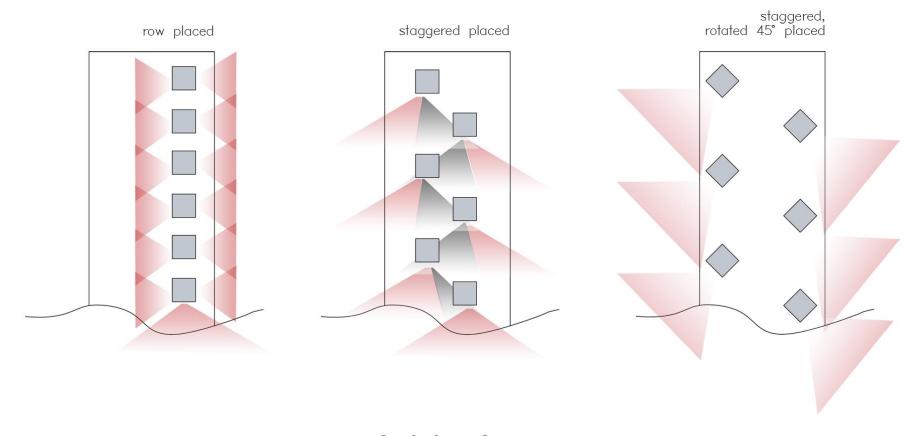
max.3 hours of sunlight per day on the nord facade

- not optimal ventilation
- accumulates moisture

max.10 hours of sunlight per day on the nord facade

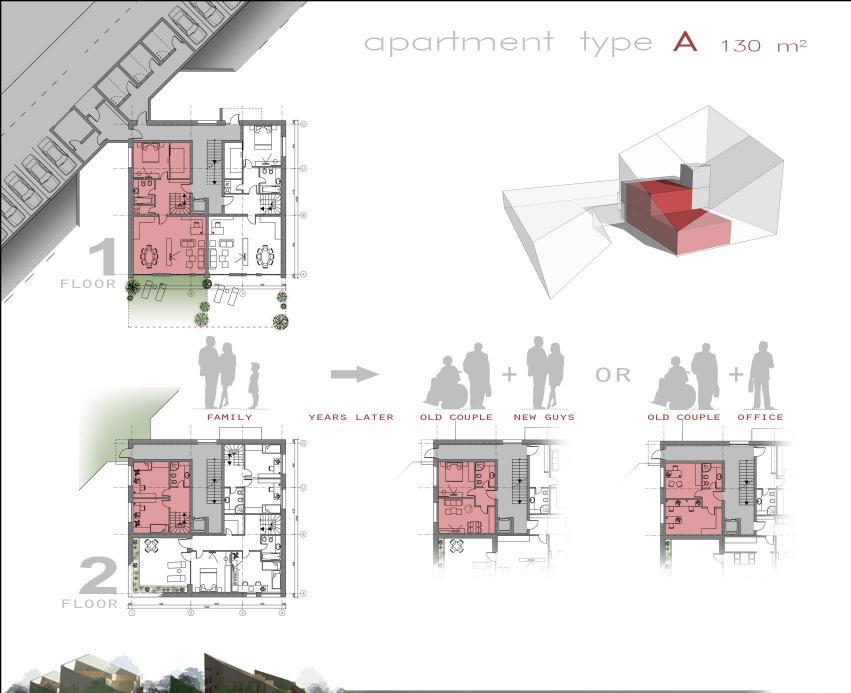
- better ventilation
- prevents accumulating moisture

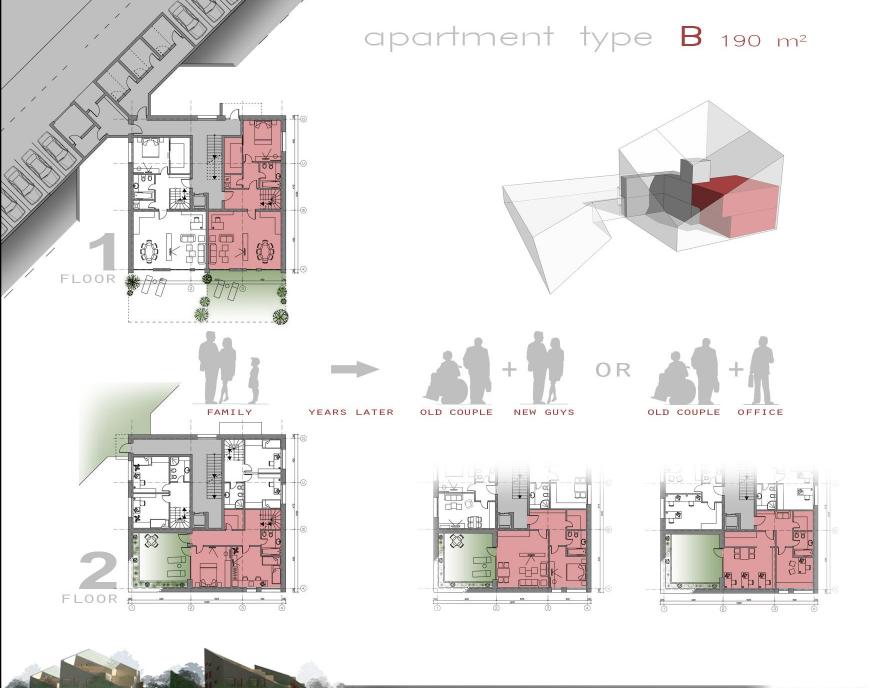




sight views

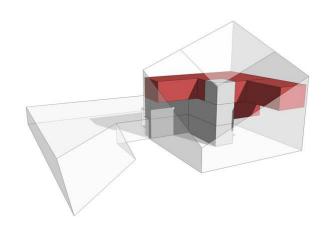






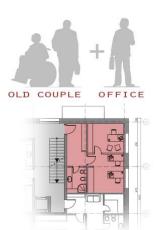
apartment type C 215 m²





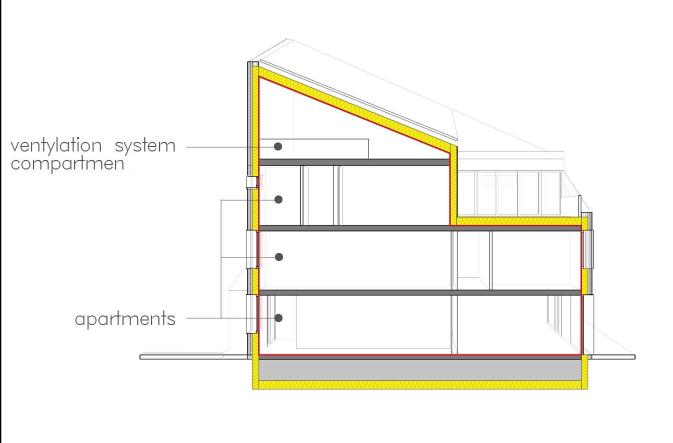


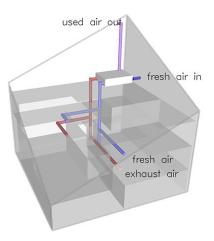


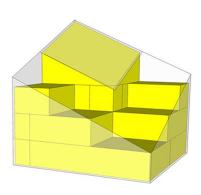


thermal insulation/airtightness/ventilation system

energy efficiency



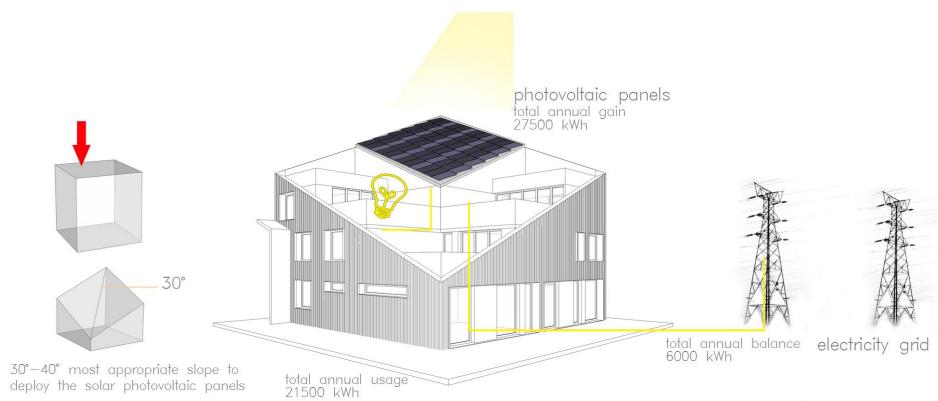




heated volume



photovoltaic panels



Calculations.		
Heat Losses:		
1. Transmission Heat Losses per m ² and year:	41.12 um	n/o
2. Ventilation Heat Losses per m ² and year:	0.00 xmx	w/o
3. Total Heat Losses per m ² and year:	41.12 sand	n/o
Heat Gains:		
4. Internal Heat Gains per m ² and year:	11.34 year	m*40
5. Available Solar Heat Gains per m ² and year;	16.20 um	m*s0
6. Total Heat Gains (Free Heat) per m² and year:	25.19 sand	w/o
Annual Heat Demand (kWhlm'):	3622.62 _{100.0}	
Specific Annual Heat Demand (kWh/m²):	14.93 years	n'e

Specific Annual Heat Hemand < 15 kWhl(m'a) achieved

