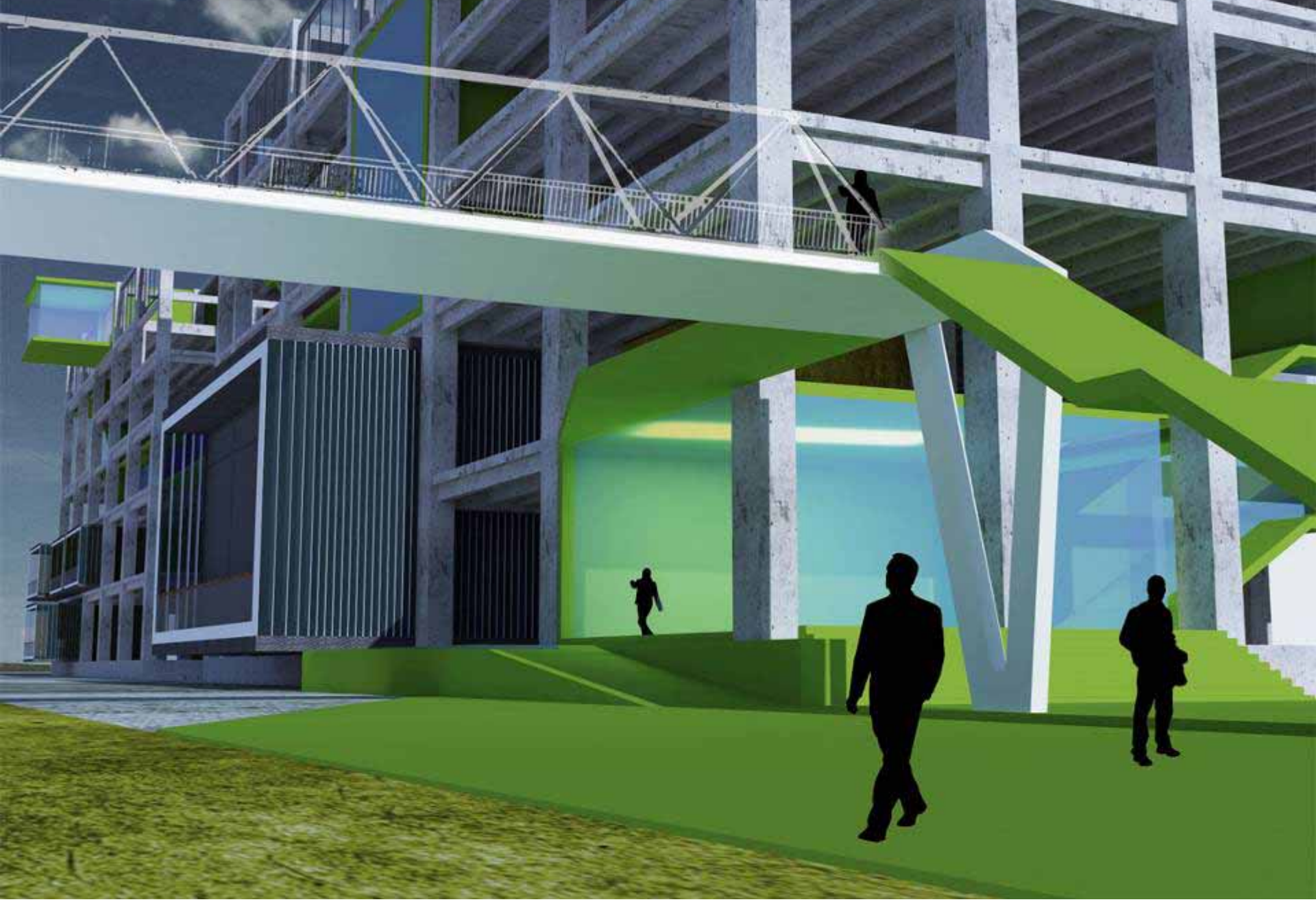


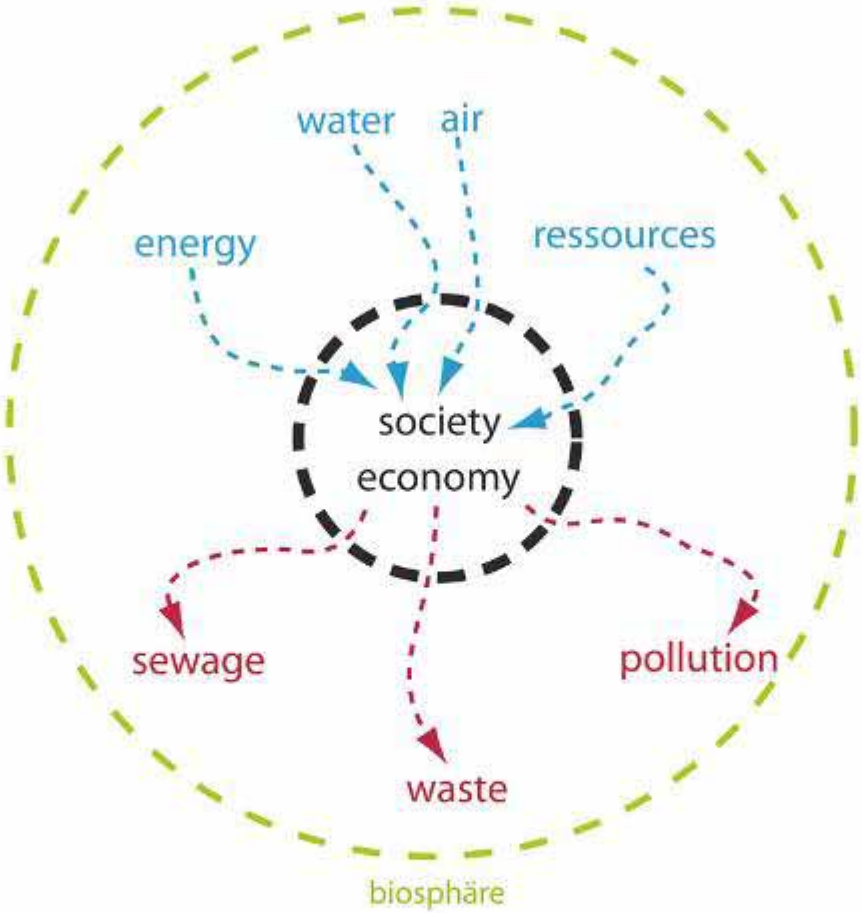
Merotopia

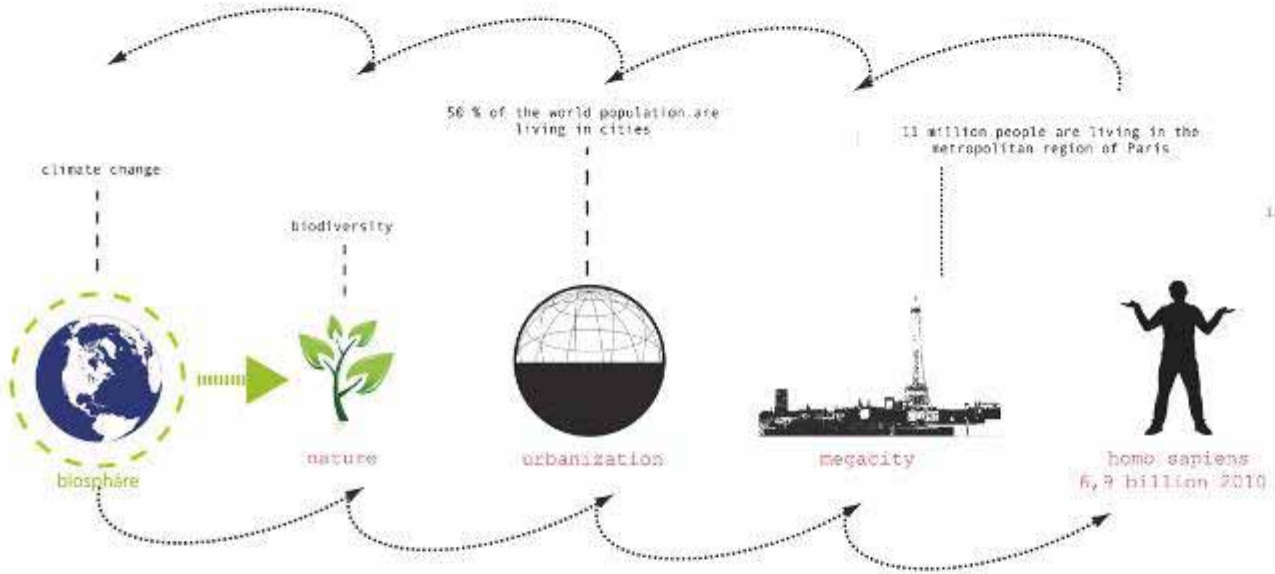

Location Paris / Pantin
48°53'41.44"N / 2°24'58.95"E

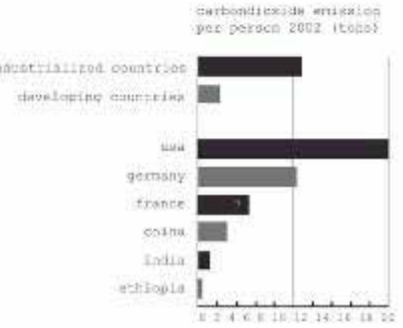
siteplan

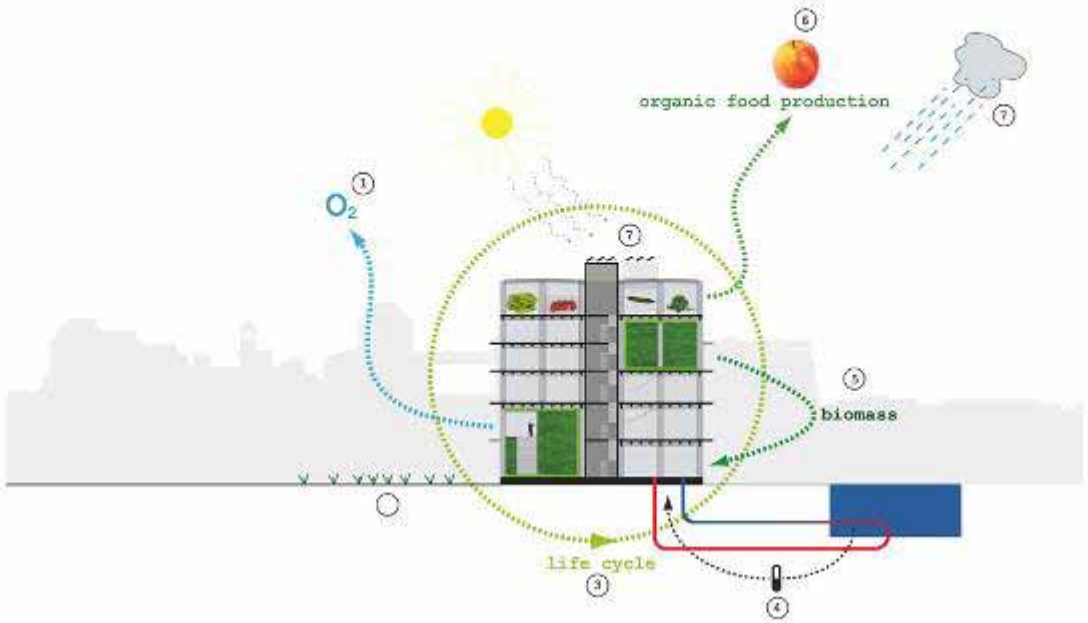
construction


25°C 77°F
0°C 32°F


water
air
energy
ressources
society
economy
sewage
pollution
waste
biosphäre


50 % of the world population are living in cities
11 million people are living in the metropolitan region of Paris
climate change
biodiversity
biosphäre
nature
urbanization
megacity
homo sapiens
6,9 billion 2010


carbondioxide emission per person 2002 (tons)
industrialized countries
developing countries
usa
germany
france
china
india
ethiopia
0 2 4 6 8 10 12 14 16 18 20

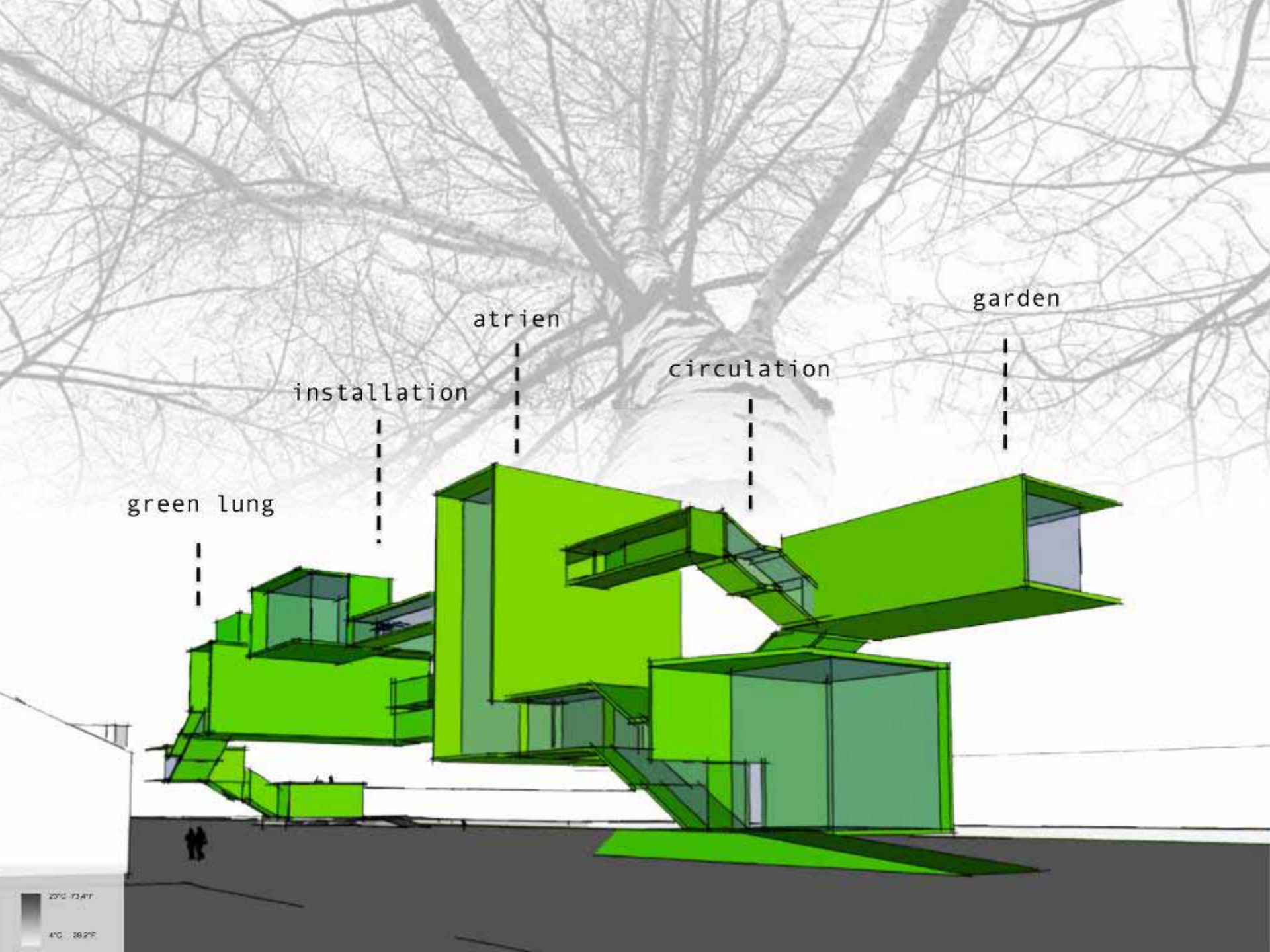


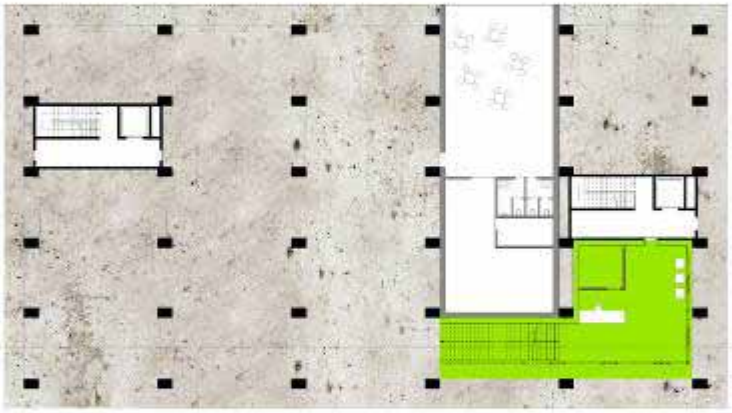
1. The green ribbon has planted walls and green atrien and will help to clean air and to produce O_2
2. The structure will contain 3 climate zones to keep the energy consumption low
3. The old concrete structure will be reused and can be used as thermal storage
4. The water of the canal will be used for a heat exchange system
5. The waste biomass of the green ribbon, the farm and the site will be used for producing Biogas
6. The urban farm with a hydroponic systems on the the roof has an area of 2000 m2 and can produce local organic fresh vegetable
7. The phovoltaic panels with an area of 1000 m2 will produce energy for the pluged-in merotops
8. The greenhouse roof is designed to capture rainfall

function

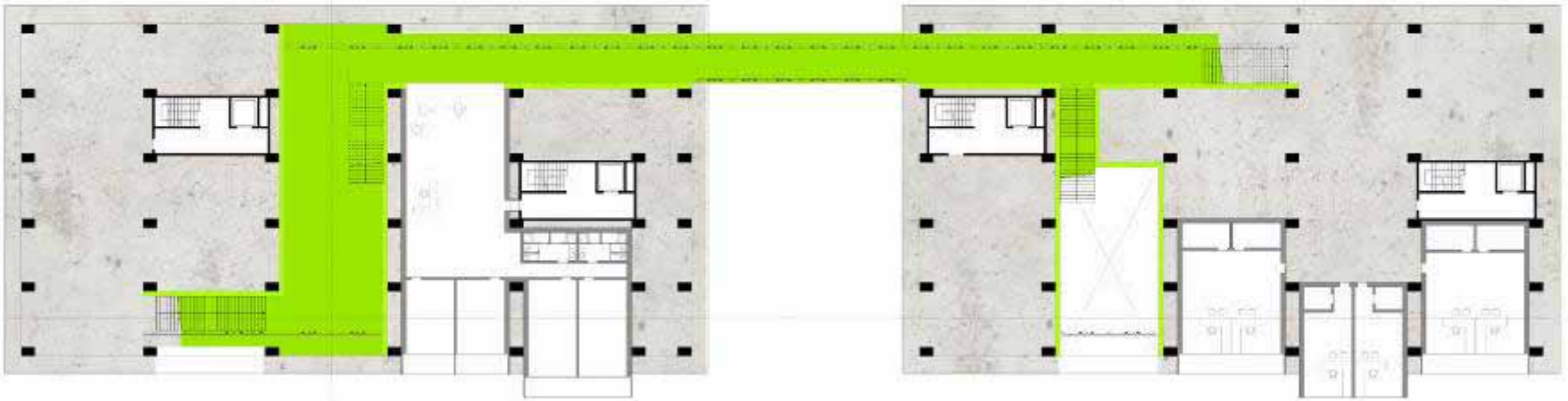
galary
office
farm
studio
living
restaurant
workshop
hostel

lifeline


garden
atrien
circulation
installation
green lung



ground floor

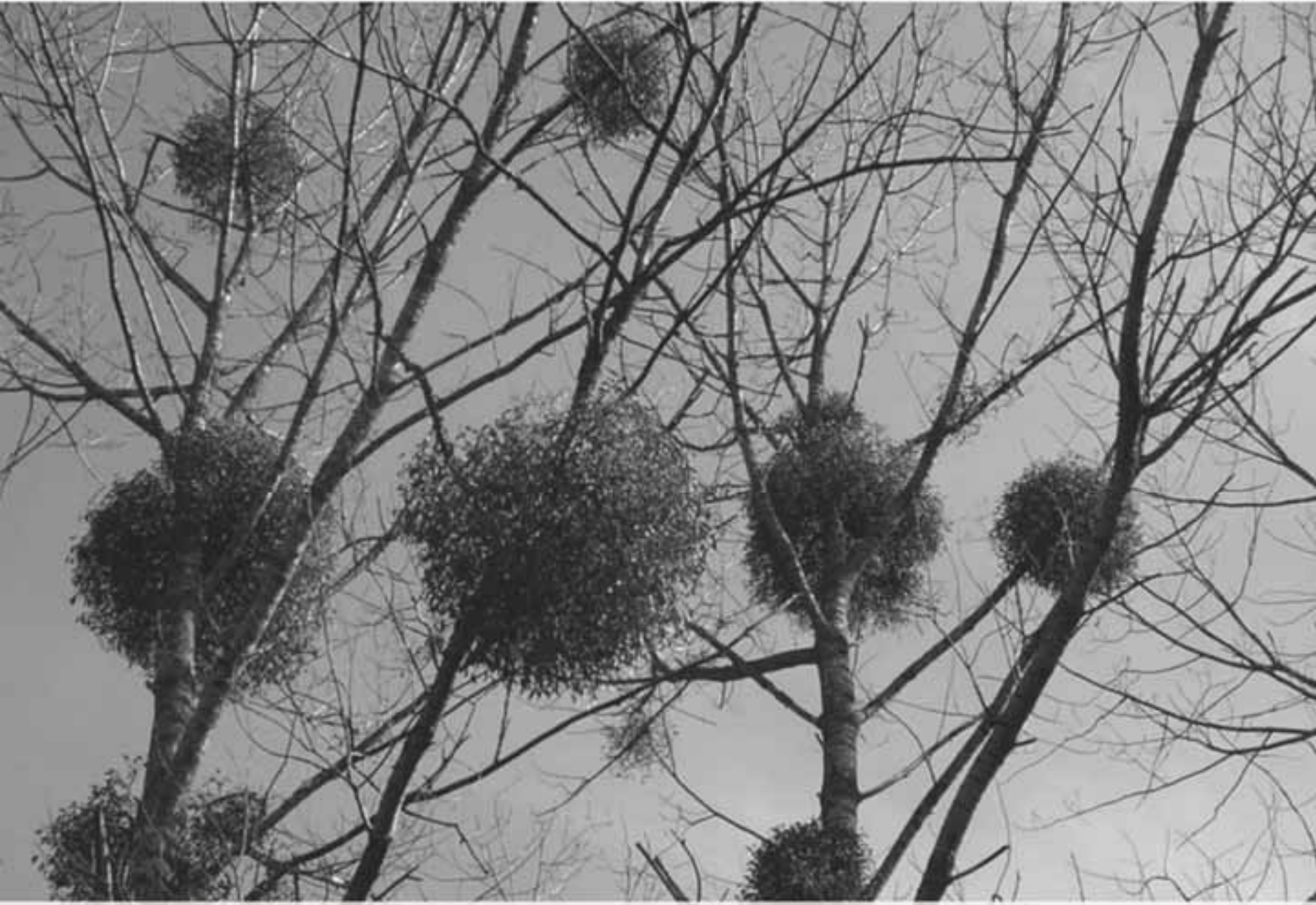


2nd floor

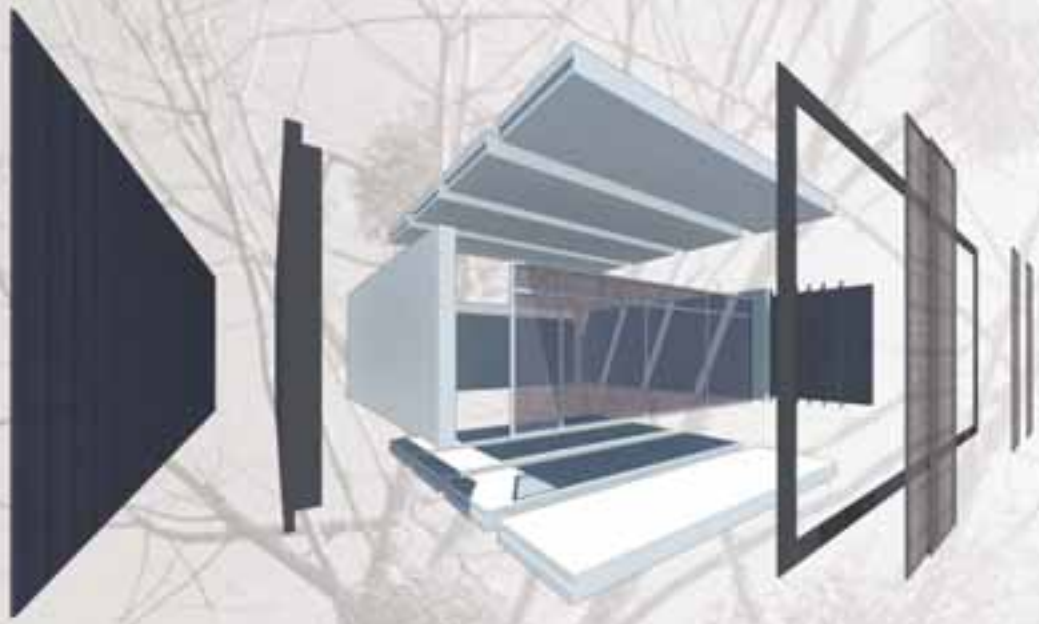
south elevation

section AA

section BB



merotop



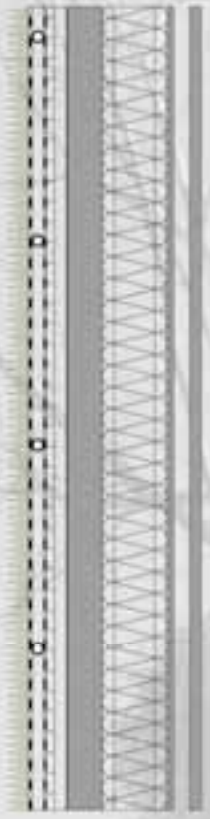
wall construction

mold	28,0 mm
furring stripes	40,0 mm
DWD -board	16,0 mm
FJI 58x240, insulated, e = 625 mm	240,0 mm
LenoTec®-massive wall	85,0 mm
plasterboard	12,0 mm
	421,5 mm

operating figures

WLG 035	U=0,14 W/m2K
WLG 040	U=0,15 W/m2K
sound insulation	46 dB
fire protection	F 30-B (F90)
moisture proof	Sd=6m

detail merotop



wall construction planted wall

mold	28,0 mm
furring stripes	40,0 mm
OWD -board	16,0 mm
FJI 58x159,isolated, e = 625 mm	159,0 mm
LenoTec®-massivewall	85,0 mm
membrane	
rear ventilation	30,0 mm
water proof board, root proof	20,0 mm
inner felt	5,0 mm
irrigation	30,0 mm
perforate membrane	
felt with slots for plant pockets	5,0 mm
plants	

Thank you for the invitation

Elisabeth Schulz Tim Reckhaus