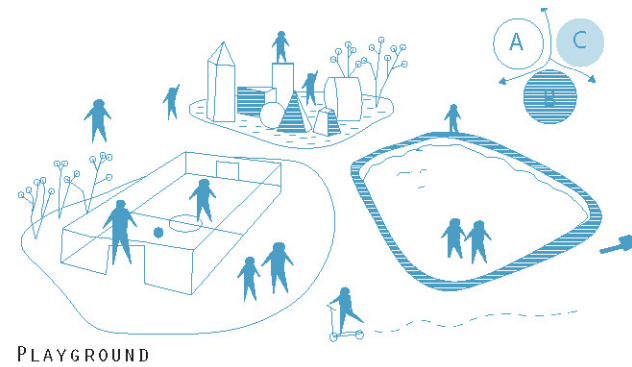


Grønn Skjærgård

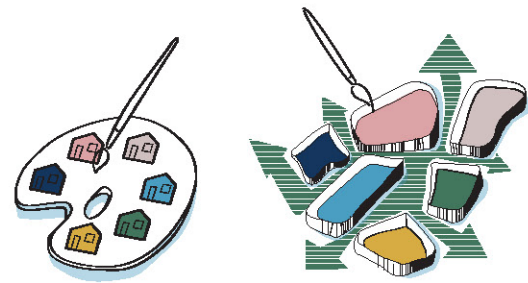
Playground Breivoll

Fall 2016, NTNU - AAR4515 - Urban design and architecture
Katharina Bier and Pernille Schanche Feragen





PLAYGROUND



GREEN VILLAGES



BORDERS

GREEN CONNECTORS

SCENARIO
OSLO HOVINBYEN IS UNDER DEVELOPMENT. BREIVOLL IS LOCATED AT THE CORNER OF THE AREA WITH THE LEAST EXPECTATION OF DENSITY. THEREFORE WE BELIEVE IT WILL BE PERFECT AS A PLAYGROUND FOR TESTING NEW IDEAS AND CONCEPTS FOR THE MUNICIPALITY, DEVELOPPERS, ARCHITECTS AND INHABITANTS.

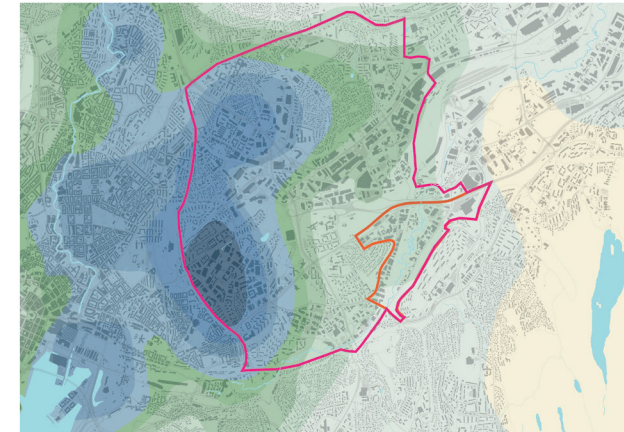
VISION
BREIVOLL WILL BE A VARIOUS PLAYGROUND IN WHICH NEW IDEAS ARE TESTED IN SMALLER 'VILLAGES'. IT WILL BE THE FIRST CAR FREE AREA IN OSLO. THE NEW AREA WILL SUPPORT THE DIY AND RECYCLING CULTURE - IT WILL HELP EDUCATE THE INHABITANTS IN A MORE SUSTAINABLE WAY OF LIVING. MOREOVER IT WILL TEST NEW OWNERSTRUCTURES (SHARING FACILITIES AND FLEXIBILITY). IT WILL STRENGTHEN THE NEIGHBOURHOODS AND CLOSE COMMUNITY. EVERY VILLAGE HAS A STRONG IDENTITY. BREIVOLL WILL BE A TESTGROUND AND ADVERTISER FOR NEW WAYS OF PARTICIPATION AND INVOLVEMENT.

CONCEPT
BECAUSE OF THE LOW DENSITY EXPECTATION AND THE BIG EXISTING GREEN STRUCTURES, WE WILL BUILD SEVERAL VILLAGES CONNECTED BY A GREEN STRUCTURE. EVERY VILLAGE IS SELF-SUFFICIENT AND WILL TEST SOMETHING, AND EVERY VILLAGE HAS ITS OWN IDENTITY AND CHARACTER. THE VILLAGES ARE PLACED WITHIN AND CONNECTED BY A BIG GREEN STRUCTURE - BREIVOLL WILL BE A GRØNN SKJÆRGÅRD.

CONNECTING THE AREA
THE BIGGEST CHALLENGES ON SITE TODAY ARE THE SURROUNDING BORDERS. WE AIM TO CONNECT BREIVOLL WITH THE NEIGHBOURHOODS. OUR TOOL WILL BE A GREEN RING. THIS RING WILL CONNECT THE NEARBY AREAS AS WELL AS MAKE THE ALNA RIVERSIDE PARK IN BREIVOLL THE NEW GREEN CENTRE OF HOVINBYEN,

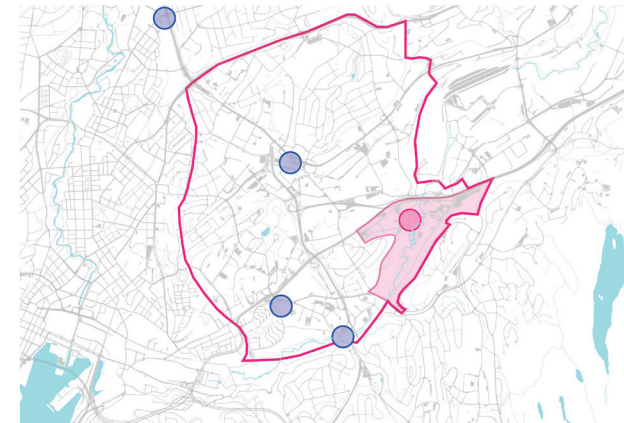
RECYCLING TRIGGER
TODAY BREIVOLL CONSISTS MAINLY OF INDUSTRY. WE WILL USE THIS CHALLENGING STRUCTURE AS A STARTING-POINT FOR FURTHER DEVELOPMENT. WITHIN 3 DIFFERENT PHASES THE INDUSTRY WILL REDUCE TO A SMALL HUMAN SCALE, INCLUDED IN THE NEIGHBOURHOOD.

DENSITY



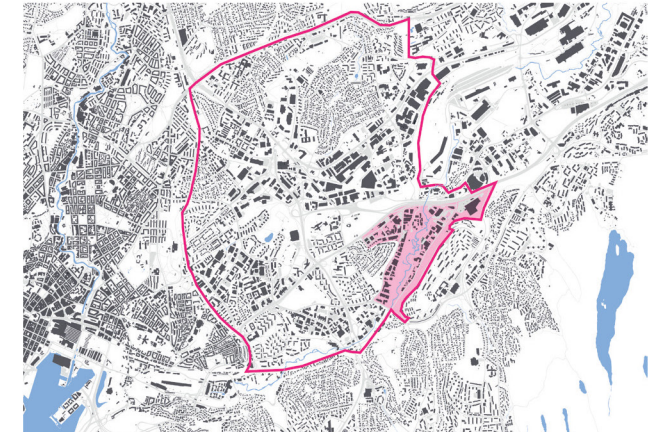
THE EXPECTED DENSITY IN BREIVOLL IS LOW. THEREFORE A DENSE URBAN PROPOSAL IS NOT SUITED FOR THIS AREA, BUT RATHER A LESS DENSE CITY STRUCTURE PLAN TAILORED FOR THE SPECIFIC AREA, AND WITH THE FLEXIBILITY TO ADAPT SHOULD THIS NEED CHANGE.

HUBS TODAY AND FUTURE



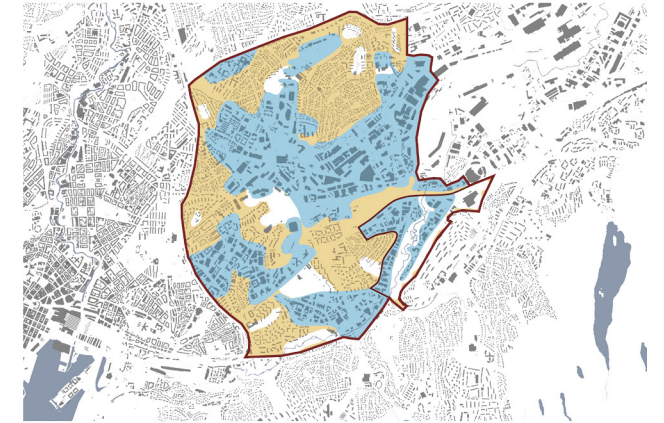
IN THE HOVINBYEN DEVELOPMENT PLAN FURTHER HUBS ARE PLANNED. BREIVOLL WILL BE ONE OF THE FUTURE TRANSPORTATION HUBS.

LOCATION



HOVINBYEN IS AN AREA IN THE EAST OF OSLO. THE WHOLE AREA IS UNDER DEVELOPMENT. BREIVOLL IS SITUATED ON THE CORNER OF HOVINBYEN.

FUNCTIONS



WHOLE OF HOVINBYEN MAINLY CONSIST OF BIG TRAFFIC AND INDUSTRY STRUCTURES. BREIVOLL IS NO EXEPTION, WITH ALMOST NO HOUSING ON THE SITE.

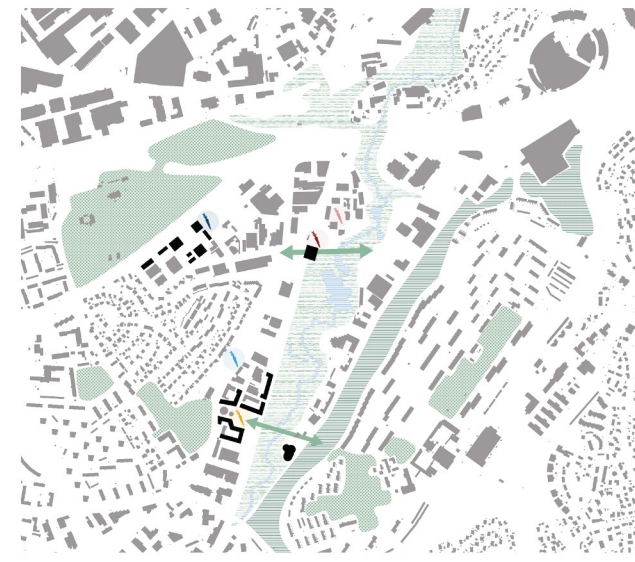
PHASES



PHASE 0: EXISTING SITUATION

CHALLENGES | BORDERS:

- SLOPE
- WATER
- TRAIN
- ROADS
- INDUSTRY

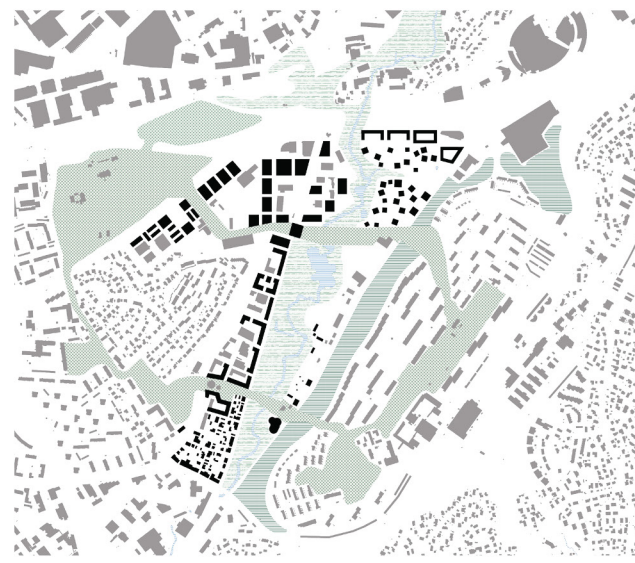
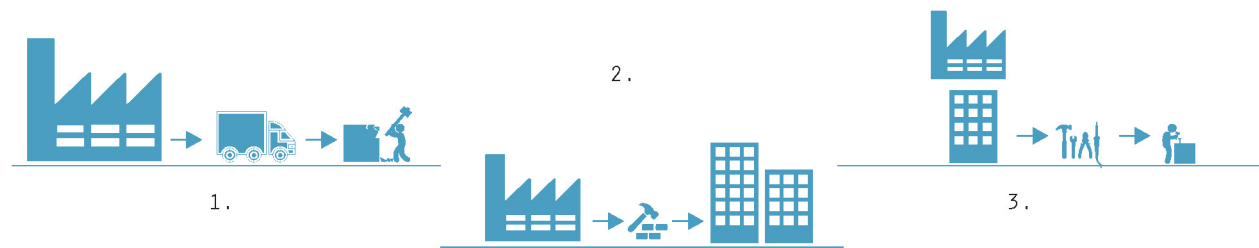


PHASE 1: DEVELOPMENT CATALYST

- FRETEX VILLAGE AS CATALYSATOR
- MOVING VILLAGE AS CATALYSATOR
- HUB STATION AND BRIDGE CONNECTOR IS BUILT
- NEW SCHOOL FACILITIES CONSTRUCTED NEXT TO THE GREEN CONNECTOR
- ARTISTS ARE INVITED TO USE THE AREA FREELY, AS LOW RENT WORK AND LIVING SPACES.

RECYCLING FACTORY

1. EXISTING INDUSTRY AS CATALYSATOR AND FOR DECONSTRUCTION AND REUSE
2. SMALLER INDUSTRY SUPPORTING THE CONSTRUCTION OF THE VILLAGES (DISLOCATION TO THE FRETEX AREA)
3. SMALL SIZE RECYCLING INDUSTRY FOR THE INHABITANTS (WORKSHOPS)

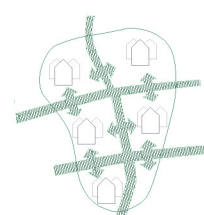


PHASE 2: GREEN CONNECTION

- FOREST | ACTIVITY AND SHELTER
- GREEN CONNECTOR | PLAYING AND RELAXING
- ALNA PARK | RECREATION AREA
- ACTIVITY PARK | SPORTS AND ATTRACTIONS



CONNECTING WITH SURROUNDING AREAS



CONNECTING THE VILLAGES

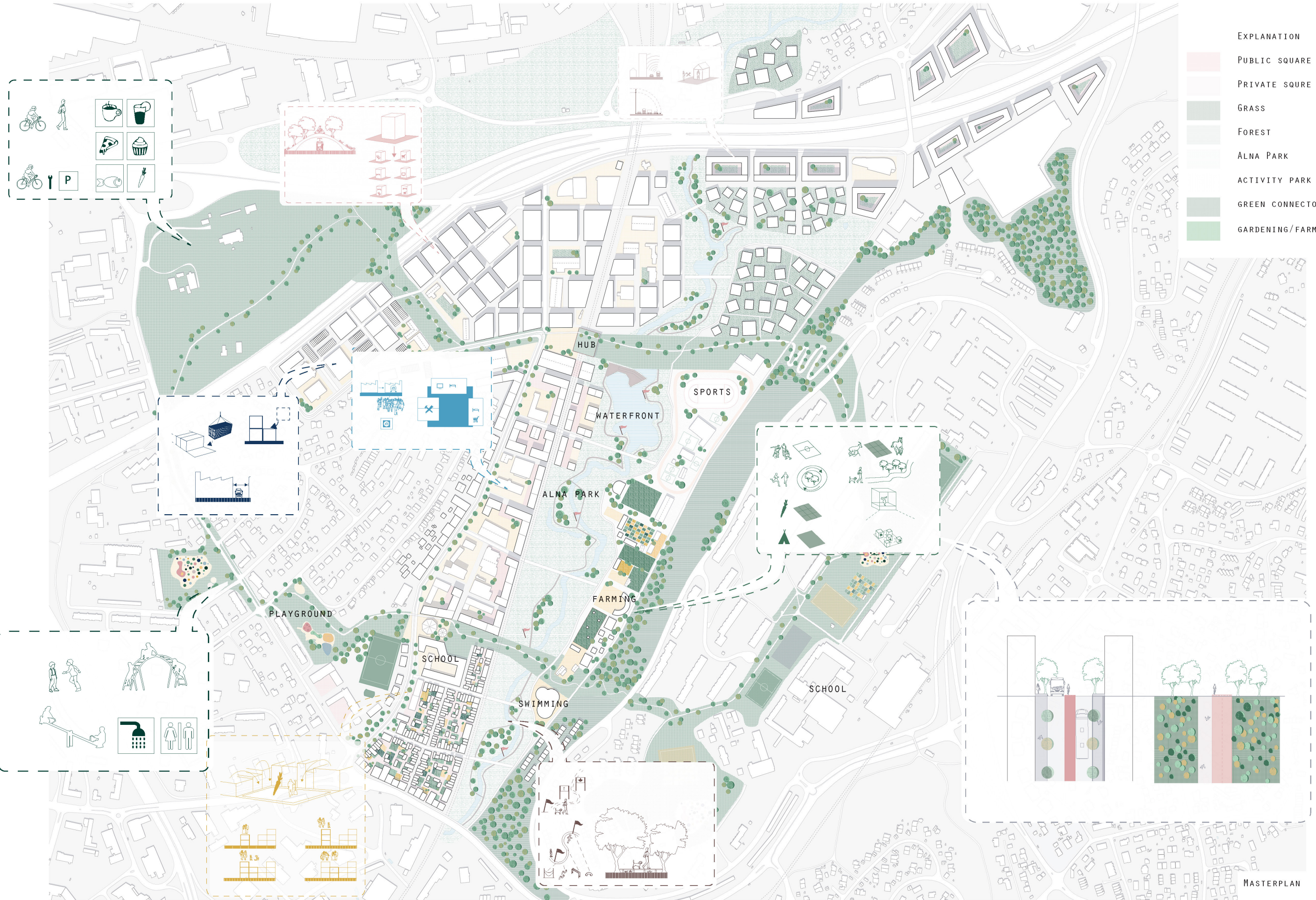


PHASE 3: GREEN VILLAGES

HOW THE VILLAGES OPEN UP THE AREA

EVERYONE NEARBY WILL BE A PART OF THE NEW BREIVOLL, CONNECTED THROUGH:

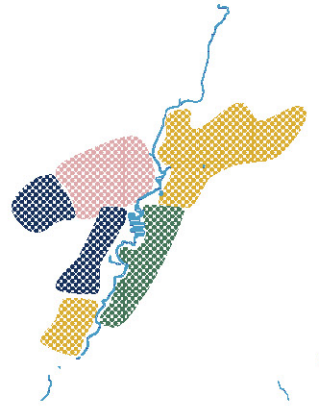
- OWNERSHIP: SHARING PUBLIC SPACES AND FUNCTIONS, WHICH ARE MADE EASILY ACCESSIBLE BY WALKING, BIKING AND PUBLIC TRANSPORT.
- FUNCTIONS CONNECTING THE AREAS AROUND, LIKE SCHOOLS, LEISURE ACTIVITIES, SPORTS, CULTURE AND MORE. PLACEMENT OF VILLAGES DECIDED BY FUNCTION AND LOCATION
- TYPOLOGY: VILLAGES REACTING TO THE SURROUNDINGS, NO HARSH BORDERS. THIS CONTRIBUTES TO THE GOAL THAT NEIGHBOURHOODING AREAS FEEL LIKE AND ACT AS A PART OF THE NEW BREIVOLL.



- EXPLANATION
- PUBLIC SQUARE
 - PRIVATE SQUIRE
 - GRASS
 - FOREST
 - ALNA PARK
 - ACTIVITY PARK
 - GREEN CONNECTOR
 - GARDENING/FARMING

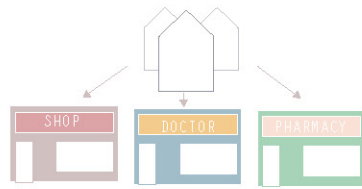
MASTERPLAN

RULES



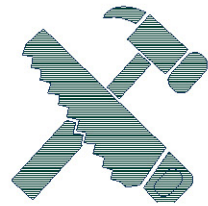
#1 MIXED USE IN THE VILLAGES

CITY MIX, WITH MIN. 3 FUNCTIONS PER BUILDING
 MIXED USE WITH FOCUS ON INDUSTRY (BLUE)
 MIXED USE WITH FOCUS ON HOUSING (YELLOW)
 MIXED USE WITH FOCUS ON LEISURE ACTIVITIES (PINK)



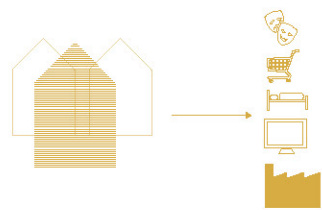
#2 INDEPENDENT VILLAGES

FUNCTIONS IN THE VILLAGES ENSURE THAT INHABITANTS DON'T HAVE TO GO ELSEWHERE FOR THEIR DAILY NEEDS.



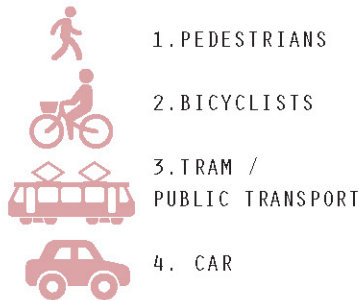
#3 PARTICIPATION OF INHABITANTS

PEOPLE CAN BE INVOLVED IN MANY WAYS: - BUILD YOURSELF, CHANGE EXISTING BUILDINGS, AND ACTIVITIES ARE CHANGEABLE IN THE GREEN AREAS.



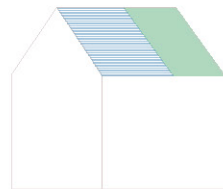
#4 FLEXIBILITY

BUILDINGS CAN BE USED FOR HOUSING, OFFICE, INDUSTRY, STORES ++ FLEXIBLE TYPOLOGIES, FLEXIBLE BUILDINGS



#5 TRAFFIC HIERARCHY

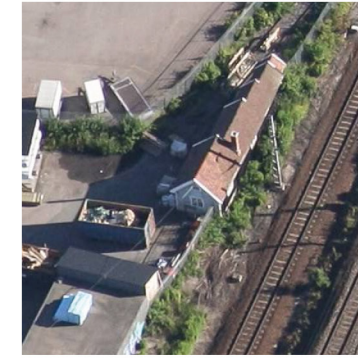
PEDESTRIANS ARE PRIORITIZED FIRST, THEN BICYCLISTS, THEN PUBLIC TRANSPORT LIKE BUS AND TRAM, AND THEN LAST THE PERSONAL CARS.



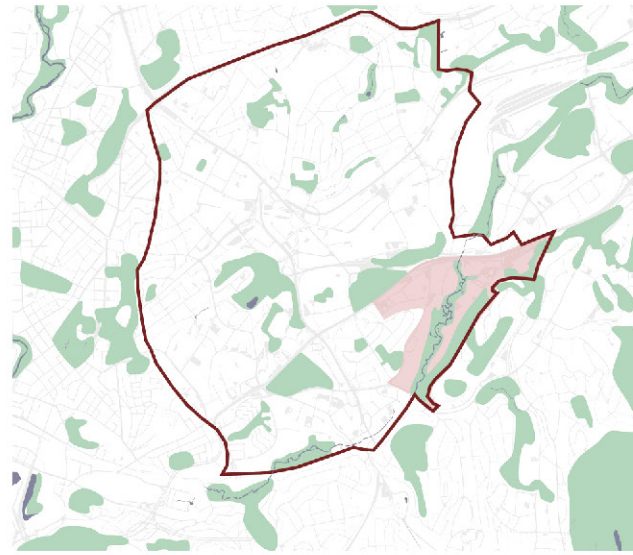
#6 ROOFS

ALL NEW BUILDINGS MUST HAVE SOLAR PANELS AND/OR GREEN ROOFS.

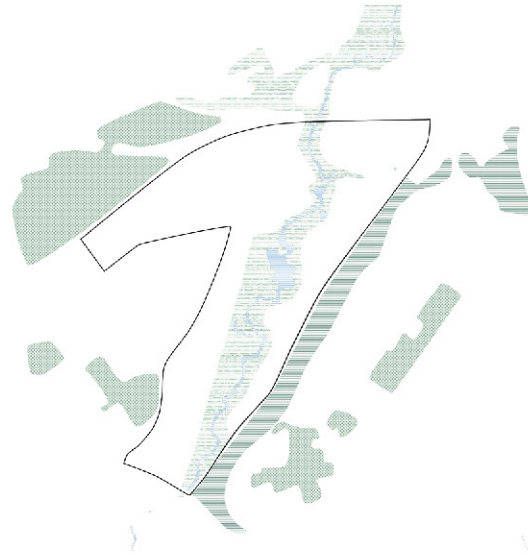
BUILDINGS WE KEEP



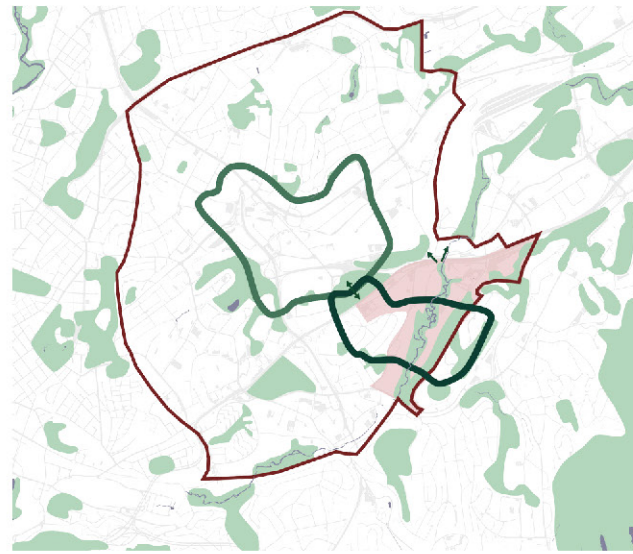
GREEN STRUCTURE



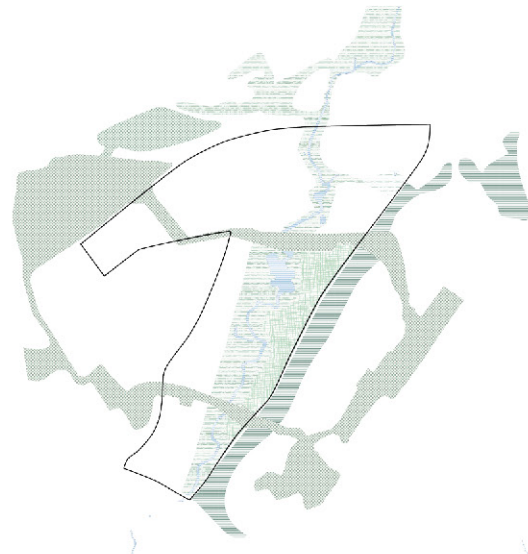
GREEN TODAY



GREEN AT BREIVOLL TODAY



GREEN RING

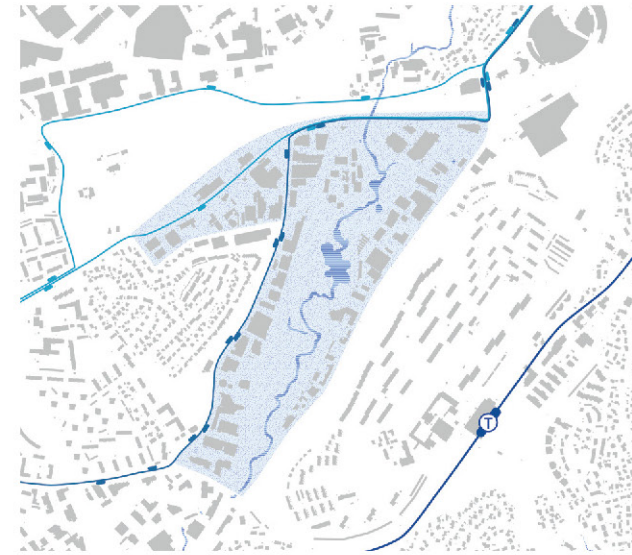


FUTURE GREEN AT BREIVOLL

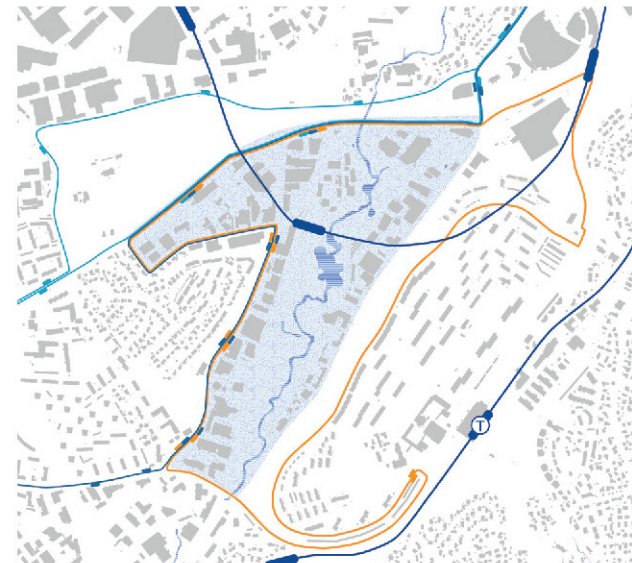
THE MUNICIPALITY IS PLANNING TO CONNECT GREEN AREAS IN HOVINBYEN. THEY CALL IT A RING (AS SEEN TO THE LEFT). WE PLANNED OUR OWN RING CONNECTING THE AREAS AROUND BREIVOLL, AND TO "ALNA GRÖNNTRAGET" (RIGHT).

1. ALNA
2. GREEN RING
3. ACTIVITY PARK
4. FOREST

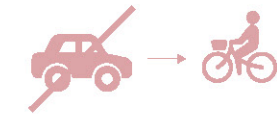
TRAFFIC STRUCTURE



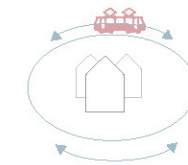
TRAFFIC TODAY: BUS, T-BANE, TRAIN



TRAFFIC FUTURE: BUS, T-BANE, TRAIN



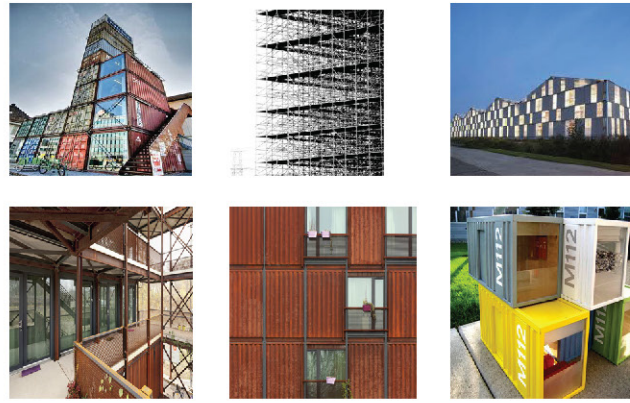
PRINCIPLE WALKING AND BIKING



PRINCIPLE RING BUS

MOVING VILLAGE

FLEXIBLE, 'BIG' INDUSTRY, STUDENTS, WORKERS, CONTAINER-STRUCTURE



THE MOVING VILLAGE WILL BE CONSTRUCTED IN THE BEGINNING. THE CHARACTERISTIC IS A BIG AND FLEXIBLE STRUCTURE. DEPENDENT ON NEEDS, USE AND INHABITANTS THE VILLAGE CAN BE CHANGED. THE BIG STREET AND SQUARE STRUCTURES ARE PRACTICAL FOR THE OUTDOOR LIFE AND INDUSTRY. THE KIND OF SHOPS AND FUNCTIONS ARE FLEXIBLE.

FARMING VILLAGE

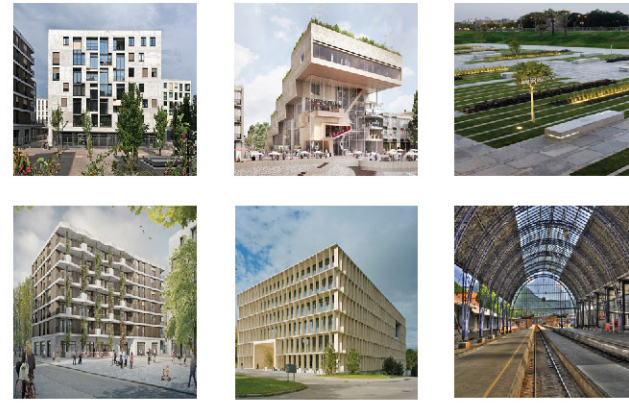
NEIGHBOURHOOD, URBAN FARMING, FLEXIBLE OWNERSHIP, SMALL SCALE, SCHOOL, LOCALSHOPS



THE FARMING VILLAGE IS A SMALL SCALED BLOCK STRUCTURE WITH SMALL, VARIABLE AND FLEXIBLE ROW HOUSES. THE OWNER STRUCTURE IS NOT FIXED AND THE COMMUNITY SHARE THE GREEN COURTYARDS AND FARMING PARCELS. THERE ARE FOUR MAIN TYPES OF HOUSES INSIDE THE STRUCTURE, AND SEVERAL DIFFERENT SIZES, ATTRACTING DIFFERENT INHABITANTS. THE VILLAGE WILL ALSO BE ATTRACTIVE FOR FAMILIES, BECAUSE OF THE GARDENS AND THE SCHOOLS AND KINDERGARTENS NEARBY. THE FACILITIES OF DAILY NEEDS ARE INCLUDED IN THE BLOCKS.

CULTURAL VILLAGE

URBAN VILLA, STATION, UNIVERSITY CAMPUS, CULTURAL CENTER, PUBLIC LIFE



THE CULTURAL VILLAGE IS THE NEW CENTRE OF BREIVOLL. THE NEW HUB STATION WILL BE HERE AND ATTRACT ALSO PEOPLE FROM THE NEIGHBOURHOODS. THE VILLAGE CONSISTS OF URBAN VILLAS, WHICH HOSTS HIGH QUALITY HOUSING AND A LOT OF CULTURAL ATTRACTIONS, OFFICES AND UNIVERSITY BUILDINGS. THE BUILDINGS IN CONNECTION TO ALNA WILL BE USED BY ARTISTS AND MUSICIANS, SO THAT THE WATERFRONT IS A CULTURAL, INTERESTING AND RELAXING MEETING POINT.

ACTIVITY PARK

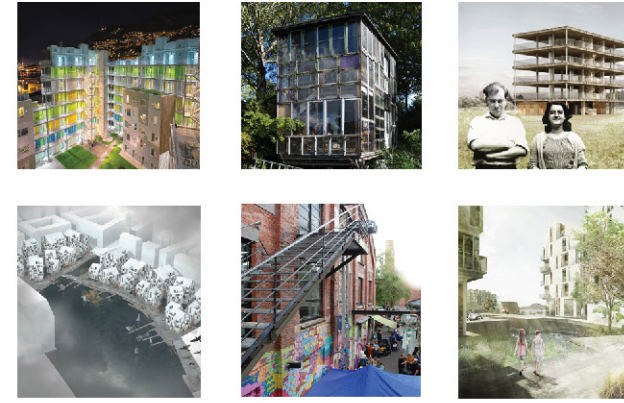
ACTIVE ATTRACTIONS, SPORTS



THE PARK VILLAGE INCLUDES SPORTS AND RECREATION AREAS FOR INDOOR AND OUTDOOR ACTIVITIES. THE SPECTRUM GOES FROM NATURE MUSEUM AND PETTING ZOO TO THEATRE, FESTIVAL AND CONCERT SHOWS, AND TO CAMPING AREAS AND SPORT FACILITIES.

SELF-MADE VILLAGE

WALL, SELF-BUILD, STUDENTHOUSING, FAMILY, SELF - ORGANIZED, COLOURFUL AND LIVELY



THE SELF-MADE VILLAGE IS MAINLY FOR PEOPLE WHO ARE INTERESTED IN SELF-BUILDING AND SELF-ORGANISATION, FOR INSTANCE STUDENTS AND YOUNG FAMILIES. THE CONSTRUCTION STRUCTURES ARE THE SIZE OF SMALL URBAN VILLAS. THIS WAY JOINT BUILDING VENTURERS CAN RENT A PLOT AND ORGANIZE THE CONSTRUCTION AND COMMUNITY THEMSELVES. IN ADDITION HIGH BLOCK STRUCTURES WORK AS A SOUND BARRIER TOWARD THE MAIN STREET. THESE CAN BE USED FOR OFFICES AND/OR STUDENT APARTMENTS.

GREEN CONNECTOR

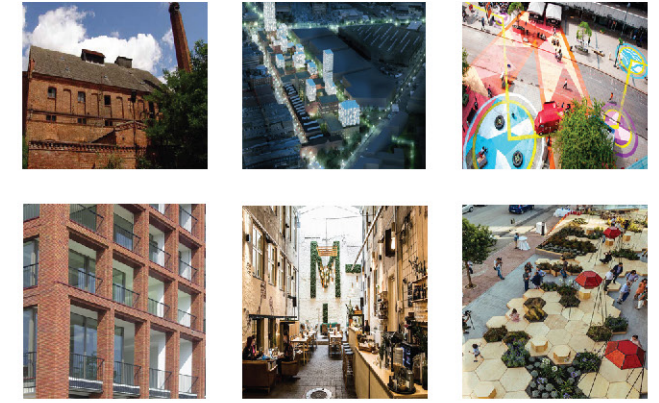
PLAYING AND RELAXING



THE GREEN CONNECTOR INCLUDES BICYCLE ROADS AND PEDESTRIAN PATHS FOR CONNECTING THE AREA. MOREOVER A LOT OF DIFFERENT PLAYGROUNDS FOR ALL AGES ATTRACT THE NEIGHBOURHOODS. SERVICES LIKE FOOD SERVING, CAFÉS, BIKE-PARKING AND PUBLIC BATHROOMS WILL ALSO BE BY THE GREEN CONNECTOR.

FRETEX VILLAGE

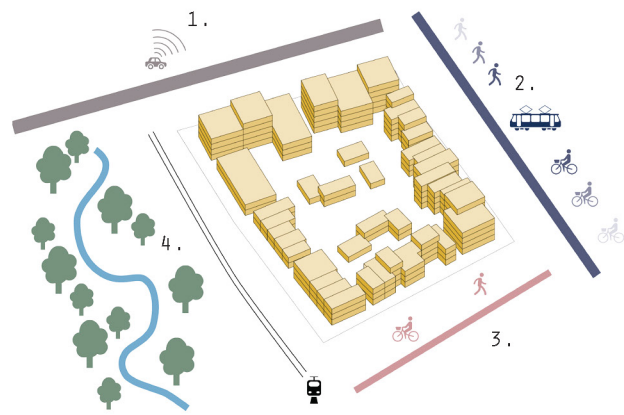
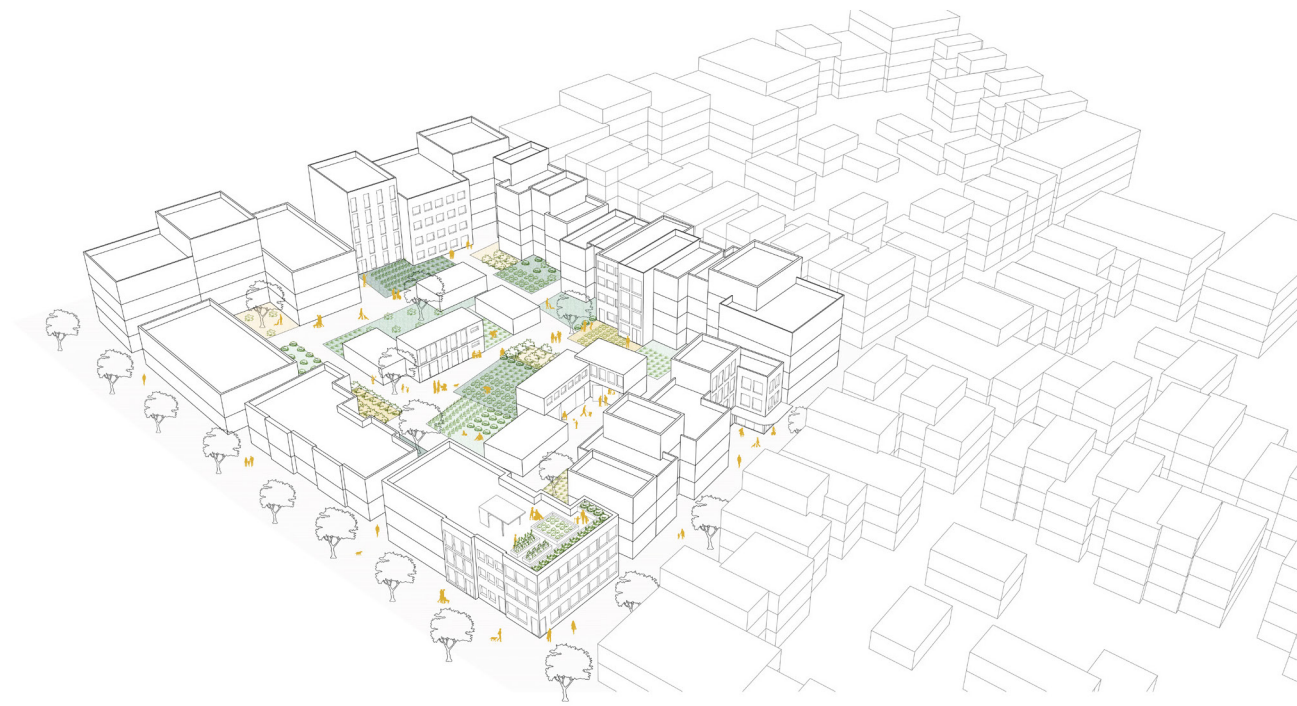
RECYCLING, WORKSHOPS, DIY, MIXTURE OF FUNCTIONS, PARTICIPATION, LOCALITY, MARKETS, MEETING POINT



THE FRETEX VILLAGE IS THE HEART OF THE NEW DEVELOPMENT OF BREIVOLL, AND WILL BE THE INITIAL MEETING POINT FOR THE INHABITANTS. HERE THEY CAN PARTICIPATE IN A LOT OF DIFFERENT WORKSHOPS IN COOPERATION WITH FRETEX. BESIDES FRETEX INDUSTRY, WORKSHOP AREAS, AND CRAFTSMEN TRAINING, THERE WILL BE OFFICES AND SHOPS IN THE GROUND FLOORS. ON TOP OF THESE BUILDINGS ARE GOOD PLACES FOR HOUSING. ALL TOGETHER THIS CREATES A LIVELY AND INTERESTING PUBLIC COURTYARD AT DIFFERENT HOURS OF THE DAY. HERE WORKSHOPS AND LOCAL MARKETS CAN TAKE PLACE.

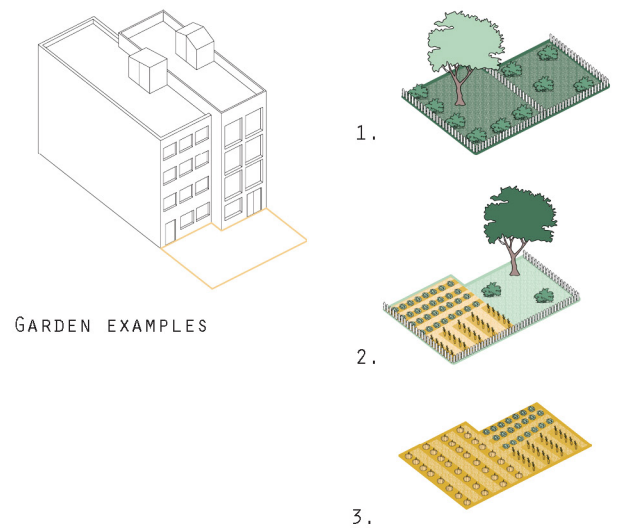


FARMING VILLAGE



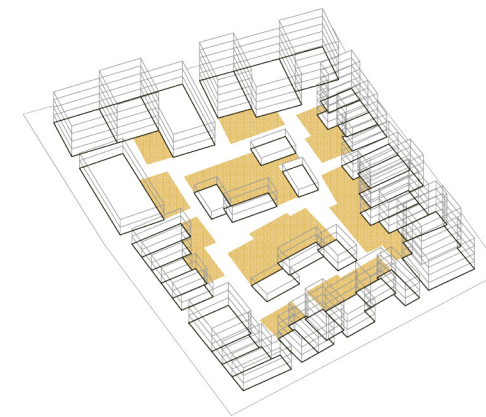
REACTING TO THE AREA

1. ROAD: TO ISOLATE FROM NOISE: TALLER AND WIDER BUILDINGS WITH MULTIPLE UNITS
2. STREET WITH MOSTLY PUBLIC TRANSPORT, BIKES AND PEDESTRIANS. LOTS OF FOOT TRAFFIC, STREET SHOPS IN FRONT. INTERESTING AND VARIED FACADE.
3. WAY FOR MOSTLY BIKES AND PEDESTRIANS, SMALL STREETS, SMALL SHOP FRONTS AND FRONT YARDS.
4. TRAIN: A LITTLE NOISE, SO NOT ENTIRELY OPEN. VERY NICE VIEW OF ALNA: LOW BUILDINGS WITH BIGGER SHARED ROOF GARDENS.

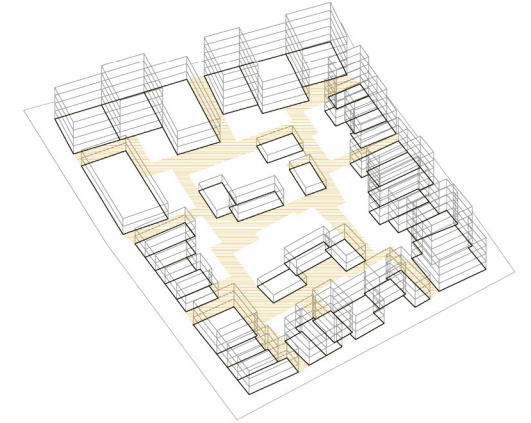


GARDEN EXAMPLES

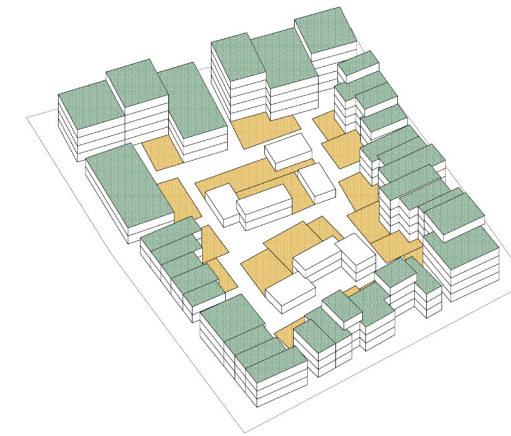
1. PRIVATE GARDENS
2. SHARED BETWEEN UNITS
3. SHARED BY ENTIRE BLOCK
4. HERE THE INHABITANTS HAVE THE POSSIBILITY TO GROW THEIR OWN PLANTS AND FOOD.



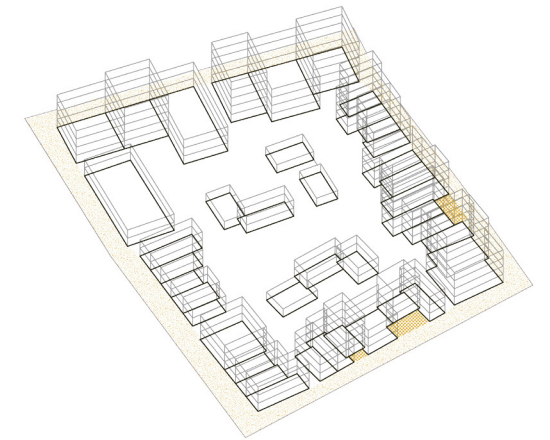
SHARED GARDENS/FARMING



INNER PATHWAYS



SEMI PUBLIC (YELLOW) AND PRIVATE GARDENS (GREEN)



SHOP FRONTS/FRONT YARDS (DARK YELLOW) AND OUTSIDE STREET (LIGHT YELLOW)

SLAB:
4 STORY MULTI FAMILY HOUSE



SINGLE HOUSE:
SHED/ WORKSPACE

ROW HOUSE:
4 STORY SINGLE OR DOUBLESINGLE HOUSE



URBAN VILLA:
4 STORY MULTI FAMILY HOUSE

MAIN TYPOLOGIES / BUILDING TYPES

TALLER

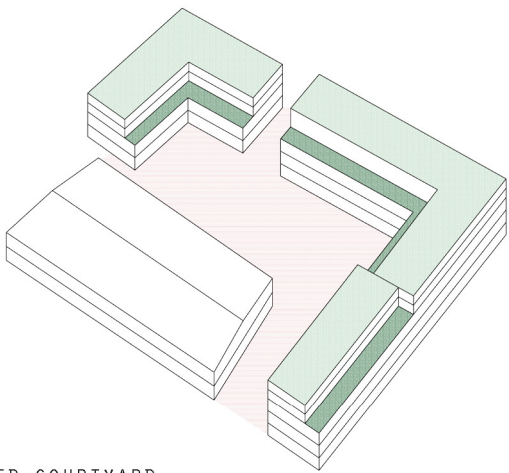
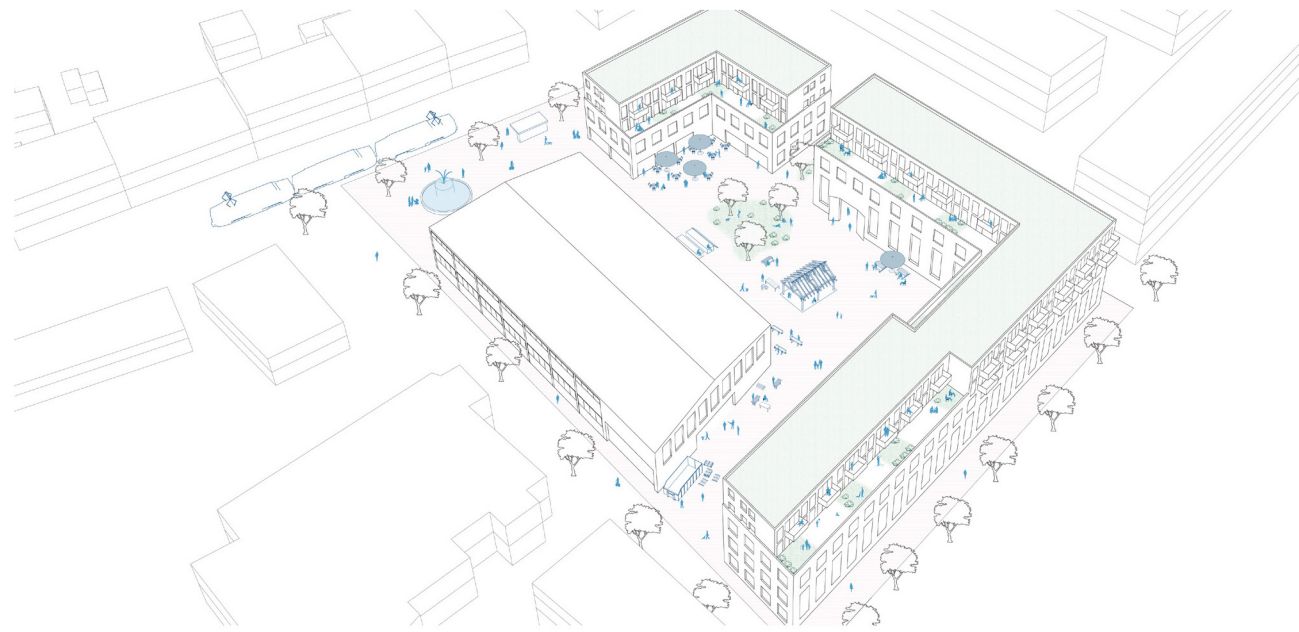


SIZE VARIATIONS



DIFFERENT TYPES AND SIZES OF HOUSES ATTRACTS A DIVERSE GROUP OF INHABITANTS

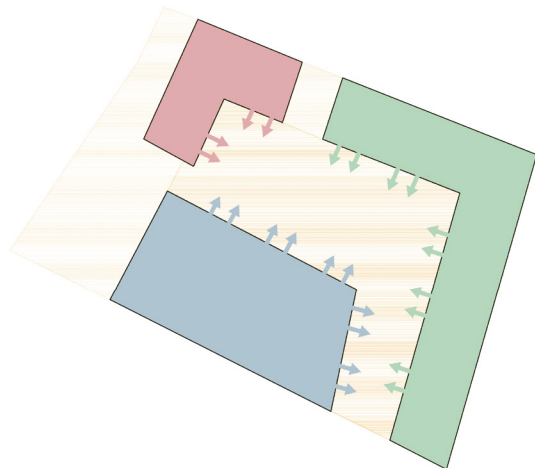
FRETEX VILLAGE



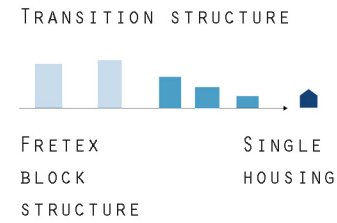
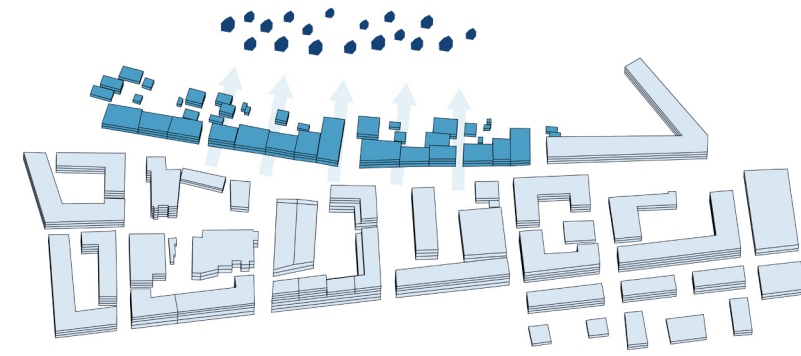
SHARED COURTYARD

- GREEN ROOF
- PUBLIC SQUARE
- PRIVATE OR SHARED BALKONY

DIFFERENT FUNCTIONS SHARING THE SPACE MAKES IT MORE LIVELY AND INTERESTING

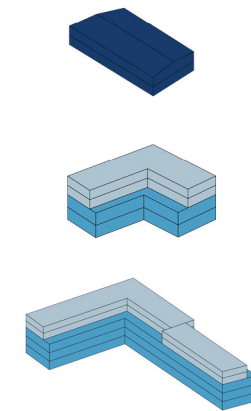


EXPOSITION



TYPOLGY: REACTTING TO THE AREA

BIGGER STRUCTURES ARE SITUATED AROUND THE EXISTING BUILDINGS AND ALONG THE TRAIN TRACKS. REACTING TO THE NEIGHBOURING HOUSING AREA SMALLER ROW HOUSES MAKE A VARIED TRANSITION FROM THE BIGGER BLOCKS TO THE SINGLE HOUSING AREA.

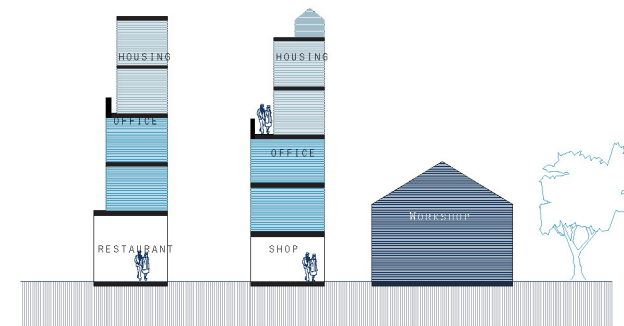


EXISTING WORKSHOP STRUCTURE

HOUSING ON TOP -

LAMELLA

OFFICES/SHOPS FIRST FLOORS



PRINCIPLE SECTIONS

THE TYPOLOGY IS FLEXIBLE FOR DIFFERENT FUNCTIONS. BUT EVERY COURTYARD SHOULD BE CONNECTED TO THREE FUNCTIONS MAKING THE AREA MORE LIVELY. BECAUSE OF THE PUBLIC ATTRACTIONS THE HOUSING IS ON TOP OF THE BUILDINGS

