



# A GREEN CONNECTION

A New Urban - rural Hub Inbetween Angered C. & Storås

project portfolio, Design and Planning for Social Inclusion 2014, Chalmers Architecture  
Group 2 : Johan MARKLUND, ZHANG Weijun, ZHUANG Xinmin

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# INTRODUCTION

## Description

### Summary

The final proposal is the result from weeks of interviews, meetings, workshop and survey. The objective of the project is to connect people with nature and attract people from the city centre. Our proposal includes, amongst other things, to add new buildings, new offices, places for activities, rest, recreation, agroforestry, eco cabins and new parking etc.

We have for some weeks been working on a design proposal to establish a link between Angered and Hammarkullen. We want to do by proposing new buildings, offices, places of activities, rest, recreation, agroforestry, eco cabins, parking amongst other things.

In the beginning and during the process we have been in contact with many different people, organizations, NGO:s and the municipality to create a better picture of the area. We have gone to meetings, interviewed people in Angered, Hammarkullen and in the Gothenburg Centre, met with students from Angered high school and listened to their ideas. All this information, we have tried to process to form the basis of our design.

We propose new homes between Angered and Hammarkullen, close to the tramline. There will be a variety of types of housing, different number of floors, offices, and, if possible, restaurants and shops in the ground floor apartments.

There will be space for rest and activities and the possibility of growing and picking apples from the fruit trees. Along the tram line there is space for agroforestry and we connect the existing paths and are creating new ones.

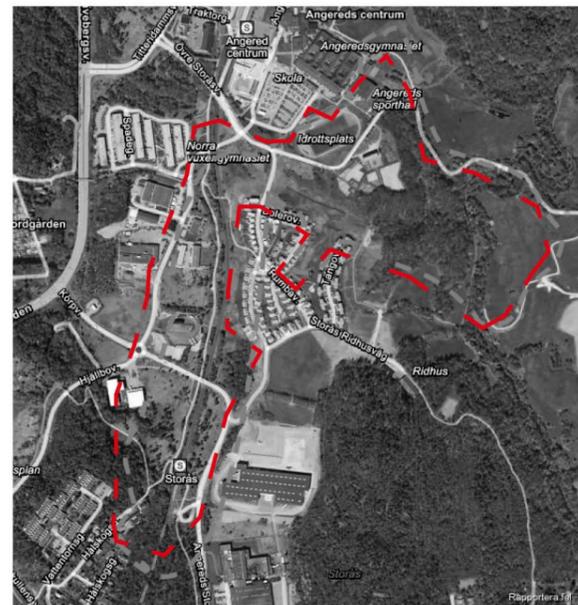
We want to make Lärjeån café and gardens more visible for people visiting and people living in Angered. We have therefore worked with elements that will inspire people go to the café. Close to Lärjeån we propose to have eco-cabins for people to enjoy.

When visitors come to Angered by tram and / or by car, our hope is that they experience and can see many exciting things that makes them want to stay and explore what the area has to offer.

Site location [Gothenburg]



Site location [Angered]

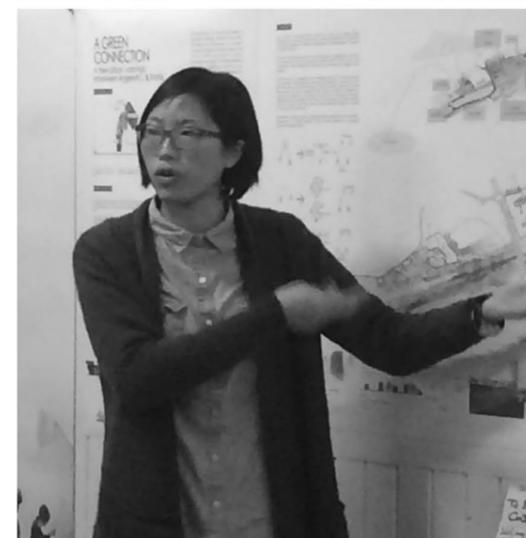


### WEIJUN ZHANG

I am ZHANG WEIJUN, from China. I studied Landscape Architecture in my bachelor. For my first year of Master in Chalmers, Social Inclusion studio is a valuable beginning of study.

### Role:

My role in this team for the analysis part are the context and conditions of the site, such as natural resources, function, green infrastructure and road system, etc. For the design part, I am concentrated on organizing the green land system, to structure the agroforestry and make the activities spot alive.



### XINMIN ZHUANG

My name is ZHUANG Xinmin. I studied Landscape Architecture in Guangzhou, China. In my bachelor study, I acquired not only the knowledge of Landscape Architecture, but also some basic understanding of other design fields.

### Role:

In this project, during the analysis process, I am responsible for project background study and demography analysis. In the design process, I am focused on the area in-between Angered Centrum and Lärjeån Cafe, find out the ways to connect these two places like greenhouses, wooden walls, eco-cabins, etc.



### JOHAN MARKLUND

I have a bachelor in Spatial planning from BTH in Karlskrona. This is my second year of master studies at Chalmers.

### Roles:

My focus has been on the Storås design part where we propose new apartments, offices, green spaces, greenery and more.

I've also been focusing on the participation part, with interviews of stakeholders and the workshop with students from Angered's gymnasium. [In this part we also collaborated with the group with Miriam, Dafni and Nathallie]



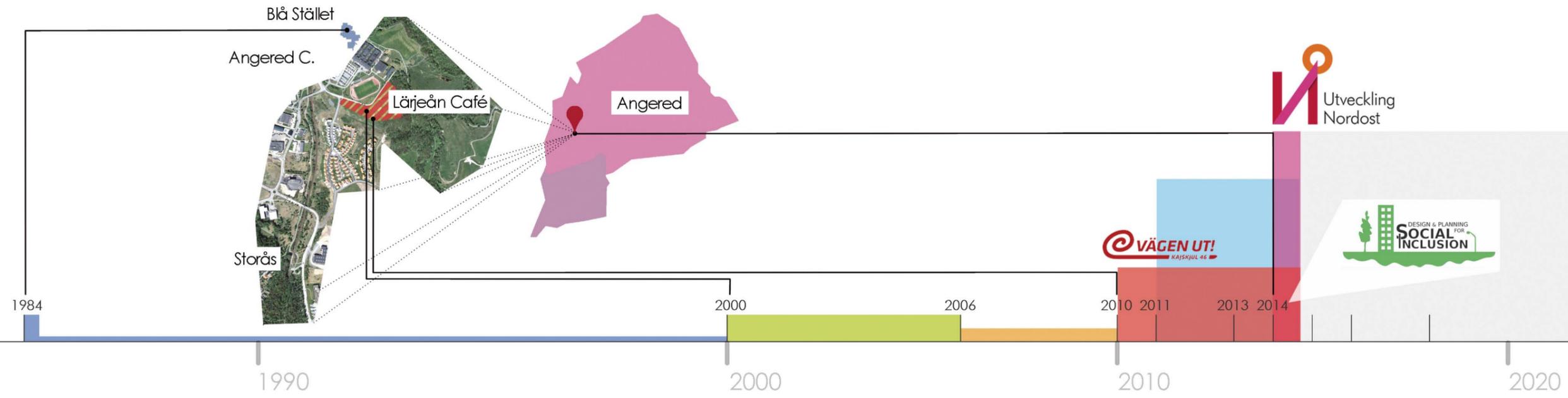
### ANNA KACZOROWSKA

We also want to say thanks you to our tutor Anna, which have given us valuable feedback for our proposal



# BACKGROUND

## History



**1984**

**A visionary exhibition 'Trädgård till nytta och nöje'**

A visionary exhibition at the Blue site in Angered called 'Trädgård till nytta och nöje' ('Garden for the benefit and pleasure') that created great interest with about 60 000 visitors.

**2000**

**Operations started with limited financial resources**

Operations started in earnest, but the Foundation 'Lärjeån Café & Gardens' was formed with very limited financial resources. In this connection, the association - Världsbyn was established with visions of building a "village" of buildings, businesses and plantations with elements from all over the world.

**2006**

**Limited financial resources made the operations become "choppy"**

The business had three talented gardeners and the garden had been well maintained, but the business did not go around economically which led to the Foundation eventually gave up. Since then, the operations become "choppy" followed by a period with decay and vandalism of the garden.

**2010**

**Way Out !! started to build the garden in a good way again**

When interest later requested, in 2010 it was awarded by the Way Out !! - cooperative responsibility, which today operates and develops the business further. With slightly stronger resources than the incumbent players in Lärjeån Café & Gardens, Way Out !! break a bad trend and started to build the garden in a good way again.

**2011 - 2013**

**Stadlandet Gothenburg has been carried out within Utveckling Nordost**

The pilot study Stadlandet Gothenburg has been carried out within Utveckling Nordost, the largest European urban development programs in the districts Angered and Eastern Gothenburg.

**2014**

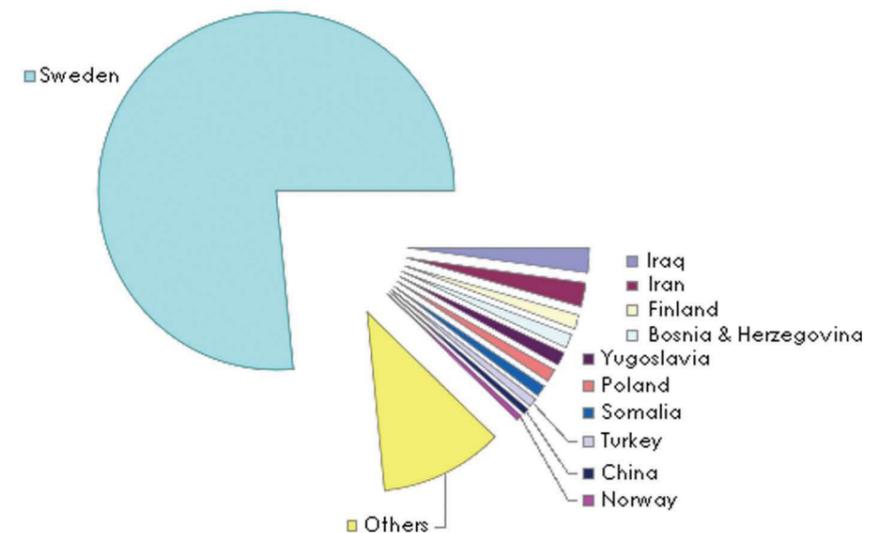
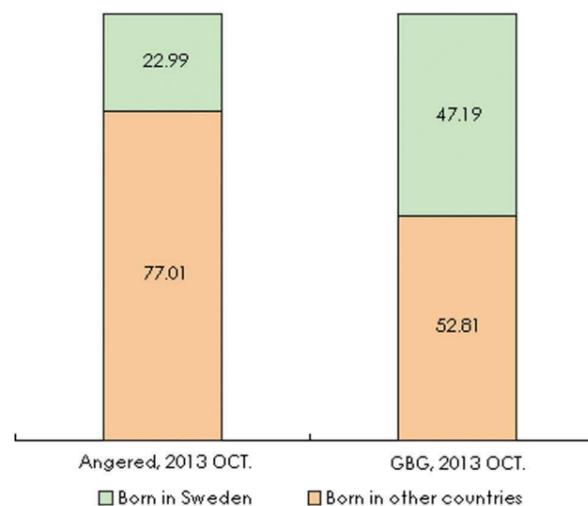
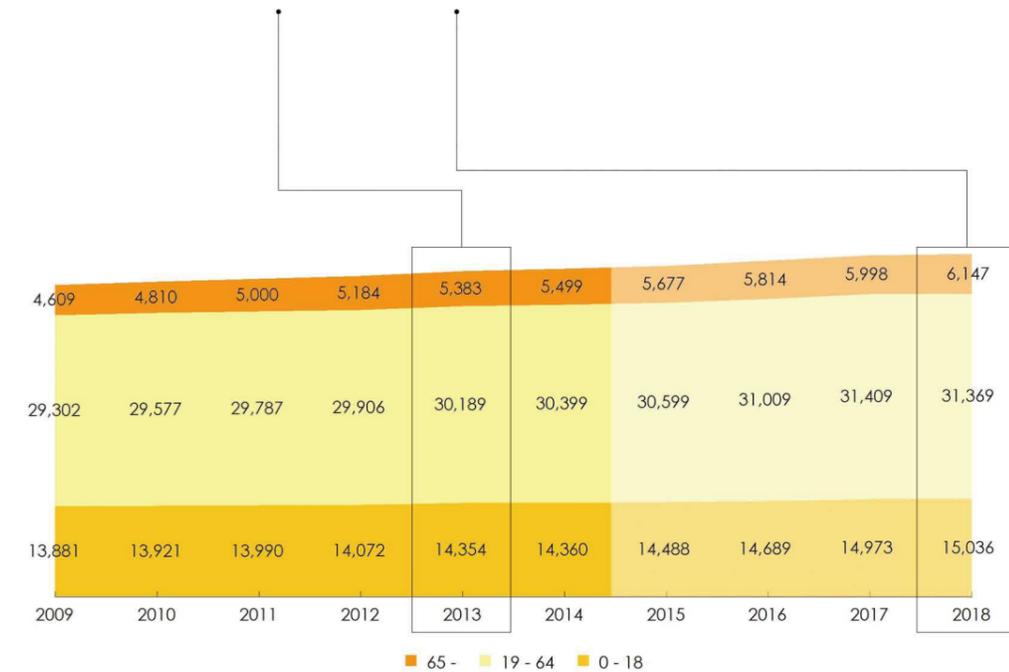
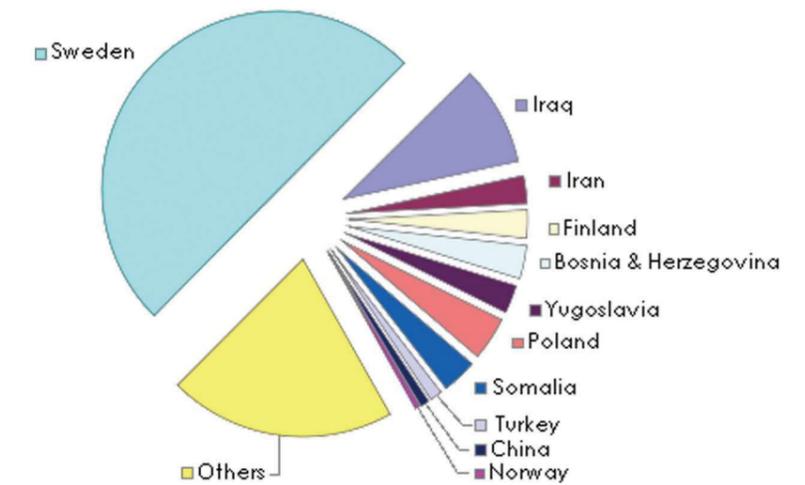
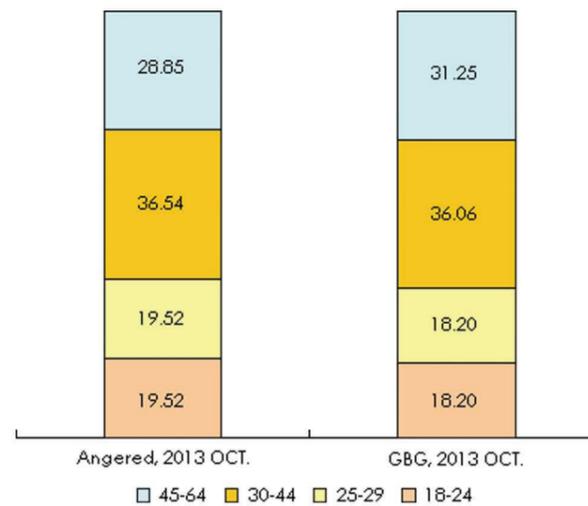
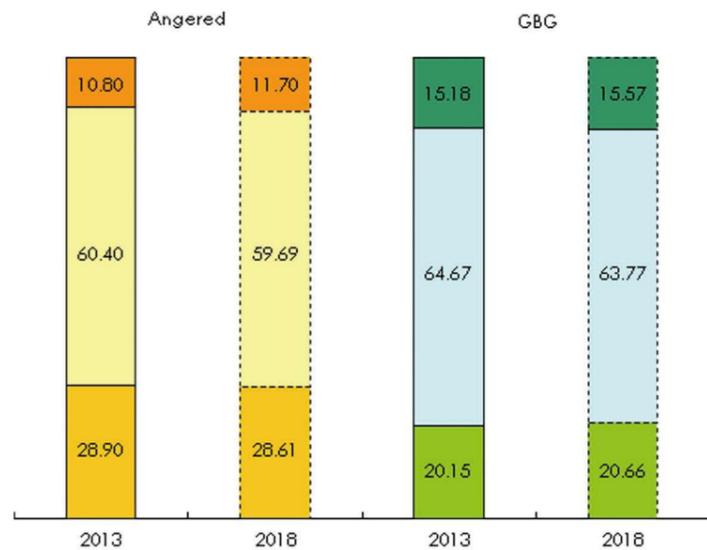
**Initial planning and development of Lärjeån Stadslandsnav**

Initial planning and development of Lärjeån Stadslandsnav - sustainable development between city and country.

Sources of information : Utveckling Nordosts rapport 2013. [www.utvecklingnordost.se](http://www.utvecklingnordost.se)

# BACKGROUND

## Demography



Compared with the city center of Göteborg, Angered is a suburb area famous for Million Programme, providing homes for around 60,000 residents. As the living price is relevant cheaper than city center, low income population and immigrants choose Angered to be their homes.

Population grows year by year in Angered, faster than that in city center of Göteborg. Population frame in Angered is a little different that in city center because of large amount of teenagers. Young people could be rich labour resources to Angered, meanwhile, could be a dangerous group if lack of their mental and physical needs.

In Angered, numbers of immigrants are much more than those in city center of Göteborg. Many of immigrants come from Muslim world like Iraq and Iran, other part of Europe like Finland and Poland. Immigrants bring abundant culture and vivid atmosphere to Angered, but sometimes are misunderstood by others because of the sensationalizing by media, according to some inhabitants.

# BACKGROUND

## Utveckling Nordost

Utveckling Nordost (Development North East) found that the multicultural background in northeast gothenburg has its potentials to develop urban agriculture and green business, since residents here have more knowledge and experiences to do farming, animal raising, handicraft, etc.

According to the materials from Utveckling Nordost and our meeting with Dan Melander and Pernilla ( Vågen ut! ), the development hub in Lärjeån will have these functions:

- Sustainable economy and green business development
- Product processing
- Academy for agroforestry
- Eco-tourism (Eco-cabins)
- Education, Research and utilization
- Center for cultural and creative industries
- Forest Laboratory (construction, energy, design)
- IT network between city and country
- Outdoor educational forum



Abibat Adedigba  
- Airoponic forskning  
- Olofstorp



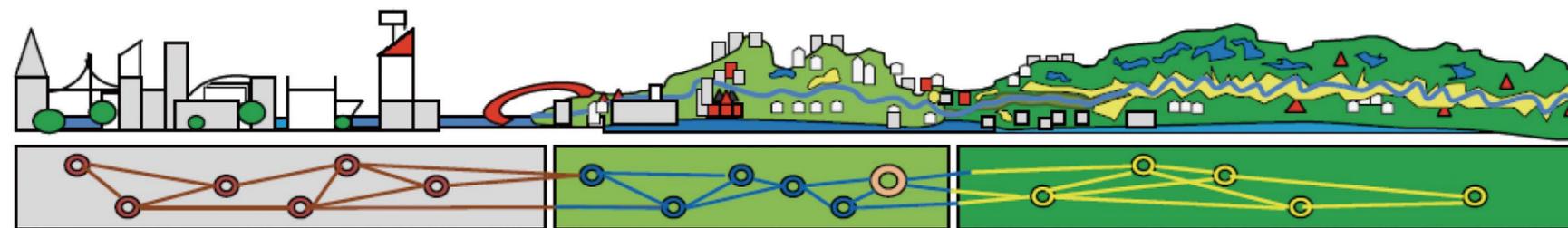
Elisabeth Bremsjö  
- Bergums fritidslantgård



Mats Torvall  
- Olofstorp

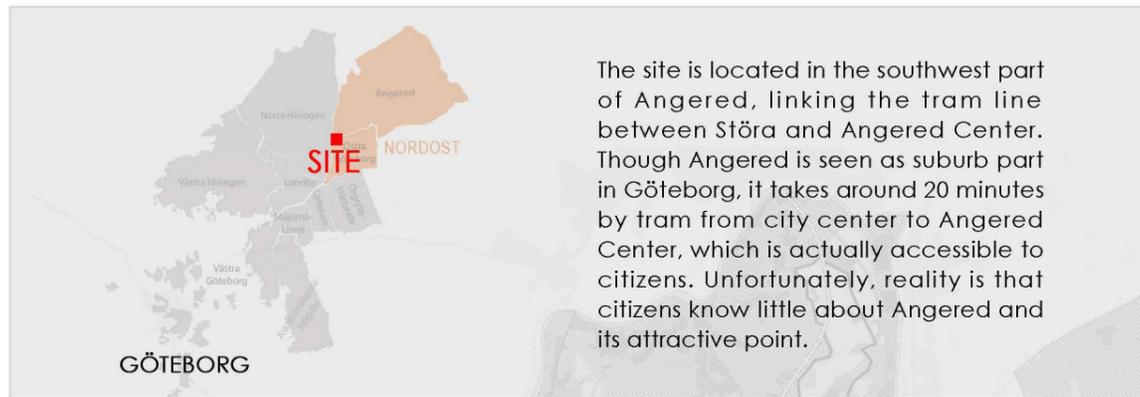


Kaveba Ahmdei  
- Lärare från Kurdistan  
- Mästare på att odla det bästa



# CONTEXT

## The Site

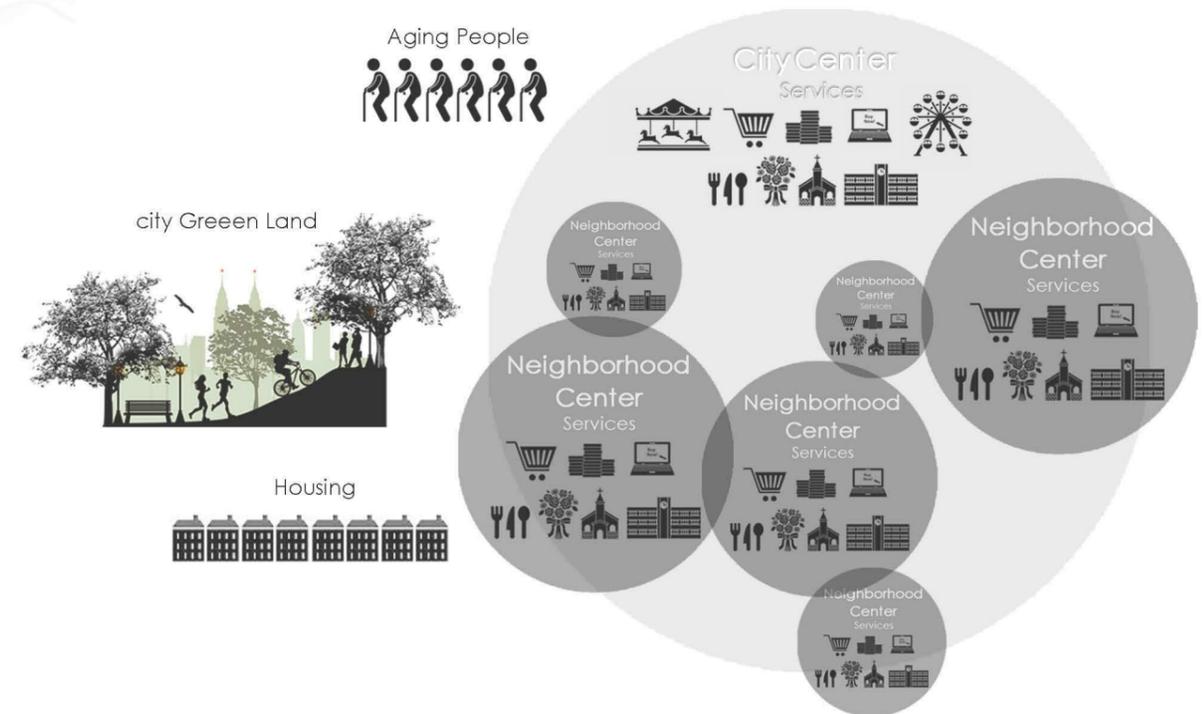
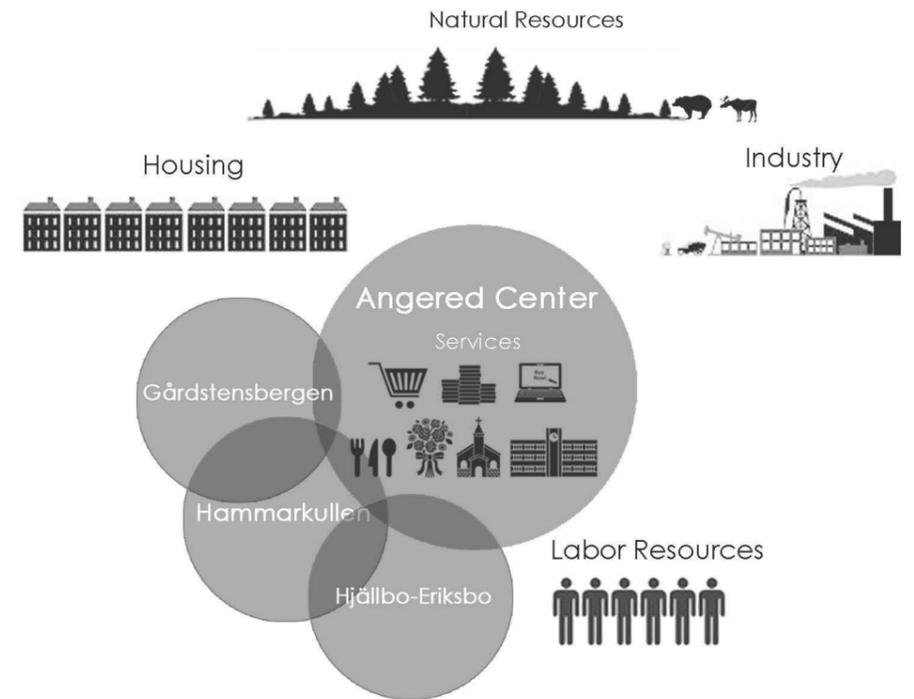


The site is located in the southwest part of Angered, linking the tram line between Störa and Angered Center. Though Angered is seen as suburb part in Göteborg, it takes around 20 minutes by tram from city center to Angered Center, which is actually accessible to citizens. Unfortunately, reality is that citizens know little about Angered and its attractive point.

Facing these realistic conditions, our task is to find out the opportunities and challenges of Angered. As Million Programme has developed several decades, Angered has large number of housing. Except for industry set in Angered, the whole northern part of Göteborg relies on the only center - Angered center to provide services. Different from this, services in city center are more reachable. The neighborhood community serves citizens more choices.

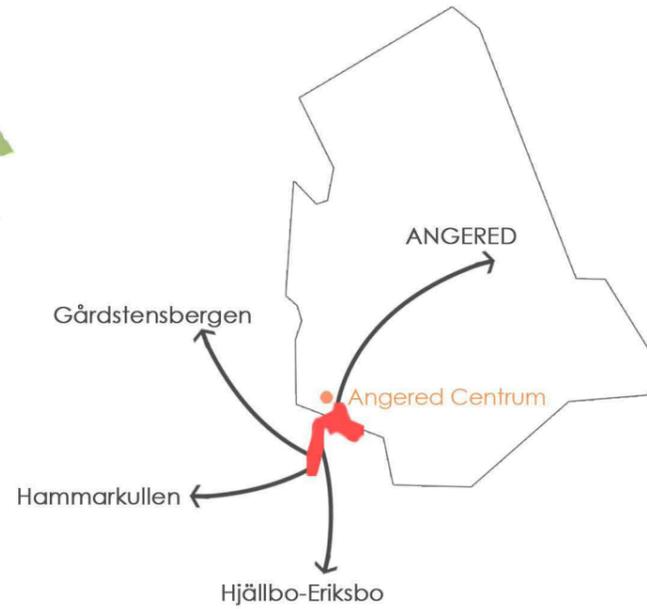
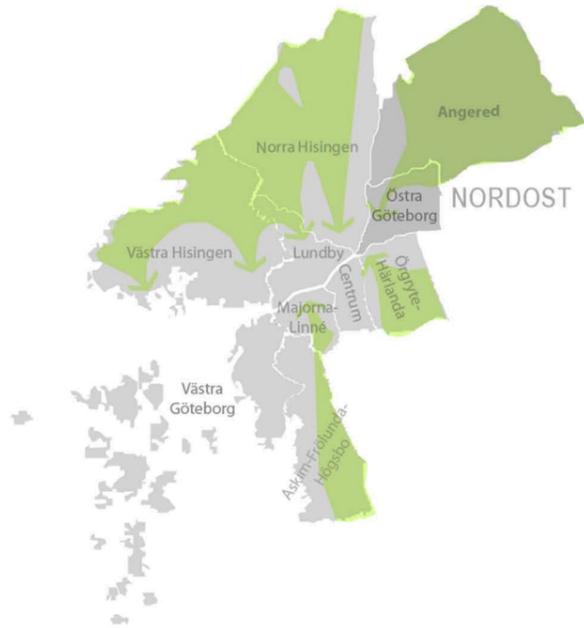
However, large amounts of natural resources is a chance for Angered. With relevant high density living in city center, citizens desire for nature. If Angered can make good use of its nature, it will be a treasure.

Angered shares teenagers as the future powerful group, while city center is troubled for unbalanced aging population and lacking of labour resources.



# CONTEXT

## Ecological Analysis



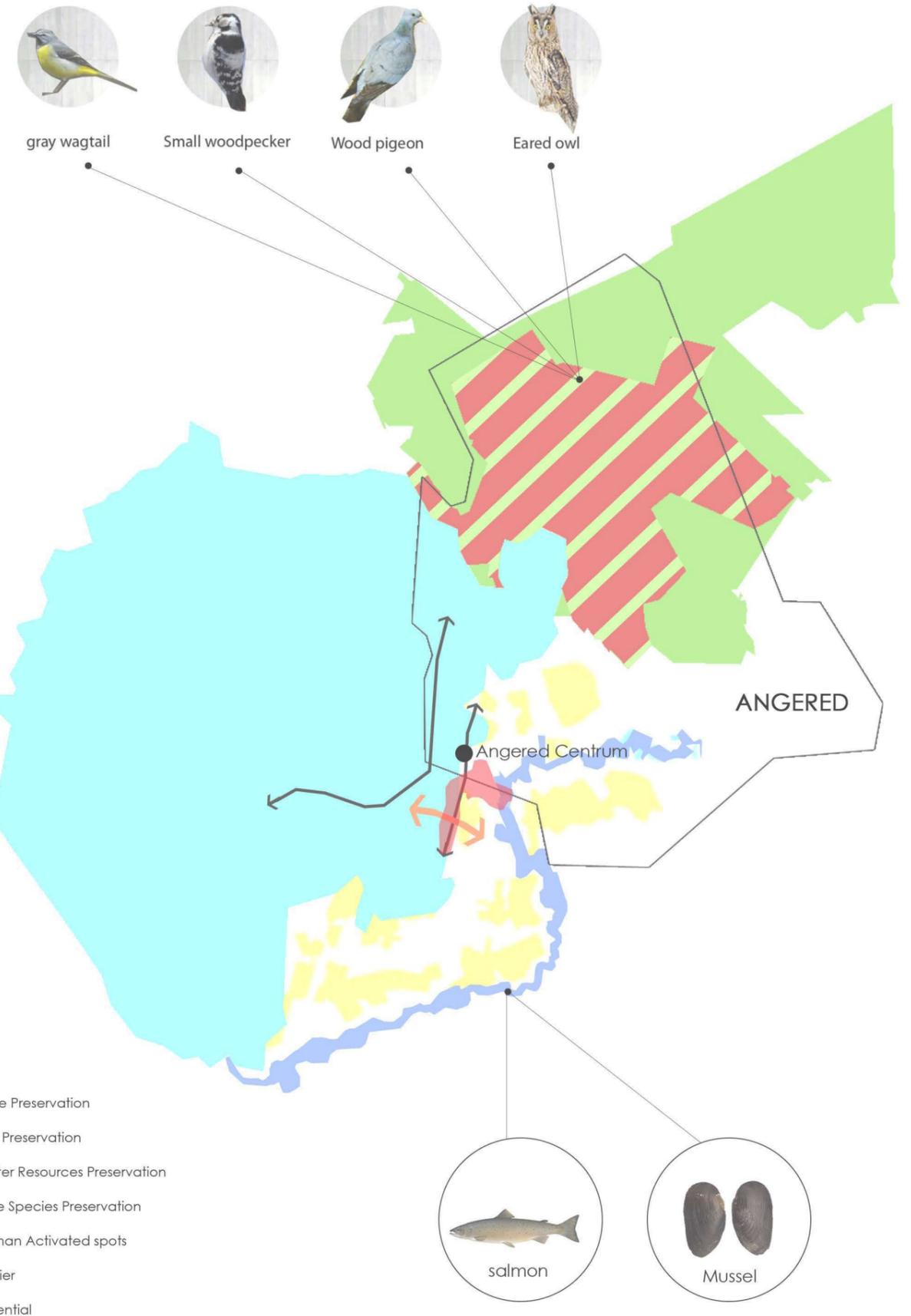
Natural resources of Göteborg is concentrated in and around the northern part. Angered has a lot of forests and water resources in the alpine areas. Birds and animals like to stay in these areas so that observers are willing to climb up the mountains and cross the streams.

As most high density areas are concentrated in city center of Göteborg, urban problems for example, heat island effect, can be produced easily. To cool down the city and maintain sustainability of urban area, natural resources in suburb has to be protected carefully. For aspects, the United Nations and Swedish political departments pay close attention to protect environment in Angered.

Let us know more about the near environment of Angered.

Next to the site, a Preservation for rare animals like mussel and salmon is set in Lärjeån Valley. To the north of the site, there is a bird preservation. Meanwhile, the site is in the range of water resources preservation of Göteborg. Therefore, to consider a suitable design for this urban-rural hub, nature has to be one of the most important factors.

Additionally, human activated areas are always barriers for nature. Similarly, nature is a barrier for development in a way. In the past, human had gone through the path to combat with nature, but the outcome very little, at least to make human understand the limitation of natural resources. At the process of exploring sustainable future, from this project, our team has to think deeply about how to develop and design the site but make it as a friendly transition spot between nature and



# CONTEXT

## Site Analysis



### Function

- CURRENT USE**
- Built-up area with grönoch
  - Area of activity
  - Parks and recreational area
  - Recreation Facilities
  - Large cemetery
  - Major department
  - Farmland
- LANDSCAPE WITH SPECIAL GREAT HOST**
- Area with particularly high values for conservation, recreation, landscape and / or cultural
- CHANGE OF USE**
- Built-up area with grönoch recreational surfaces
  - Area of activity
  - Large cemetery
  - Strategic hub
  - Land Reserve for communication, road

The site is very special for the whole northern part of Göteborg with its strategic significance for the urban-rural hub. It means that Angered center is officially focus for the development of Göteborg.

There are several residences near the site, which means that the design have to consider nearby residents' needs. Industrial areas are surrounded the tram line, which is convenient for the employees working in the factories. In the Lärjeån Valley, lots of natural resources and typology can be used as function of recreation and landscape, and some areas in the Lärjeån Valley are used for farming.



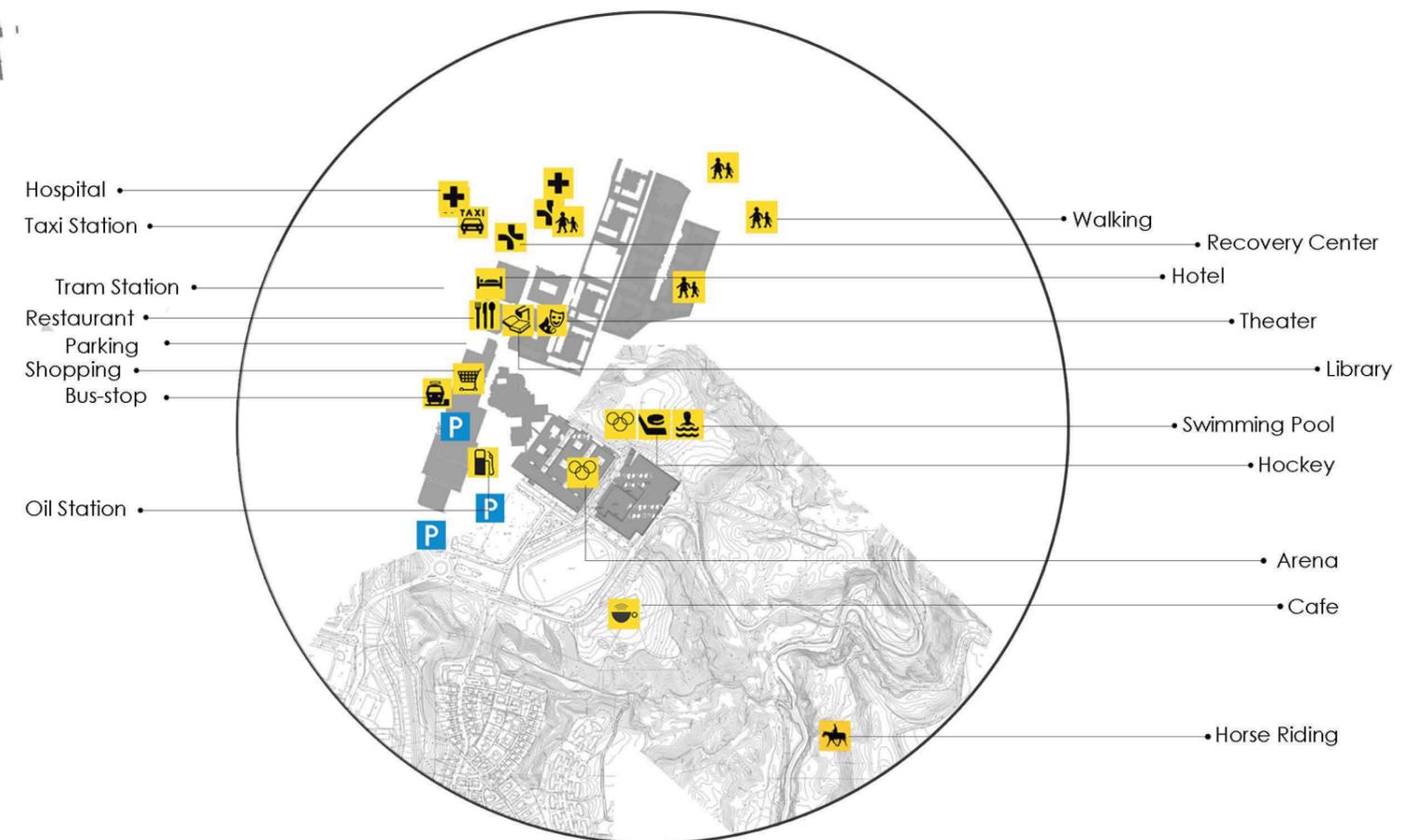
### Built Environment

In the western part of site, there is a residence formed with villas. It is a well-organized villas area, with front garden, back yard and individual garage for each house. To the north, there is a hillside residential area, linked the site with Hammarkullen. As it is located on the hill, typology make the landscape and space change. villas and constructions are built by the change of topology, look very different from the buildings of million programme in Hammarkullen.

Industrial buildings are constructed by concrete, very functional. Buildings of facilities are concentrated near Angered center, included Angered high school, arena, library, theater, supermarket and several shops, etc. Specially, as the entrance of Lärjeån Valley, Lärjeån cafe are built with wooden houses.

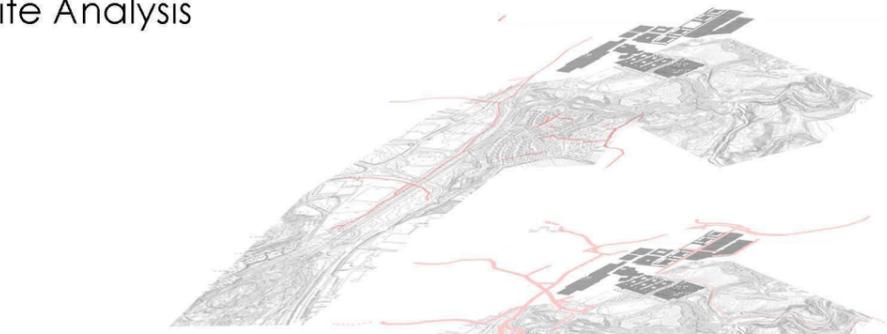
### Services

Main services provided for whole Angered and district nearby, such as, Hammarkullen and Hjällbo.

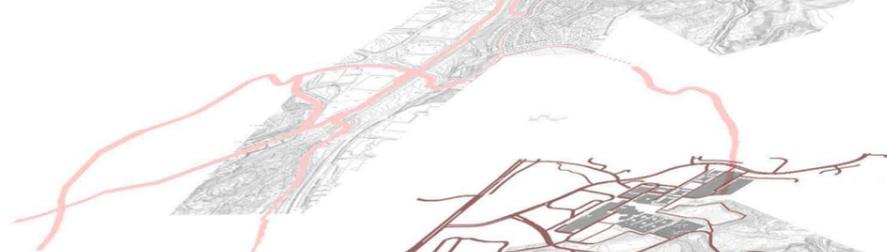


# CONTEXT

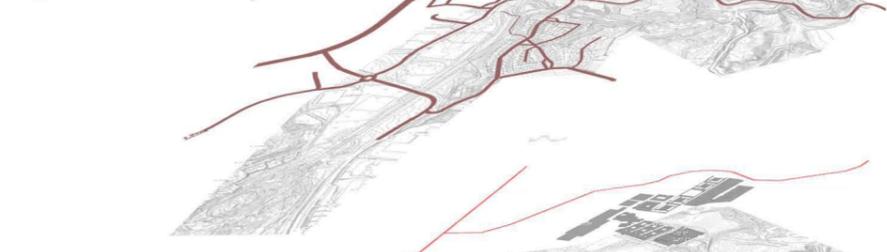
## Site Analysis



Path



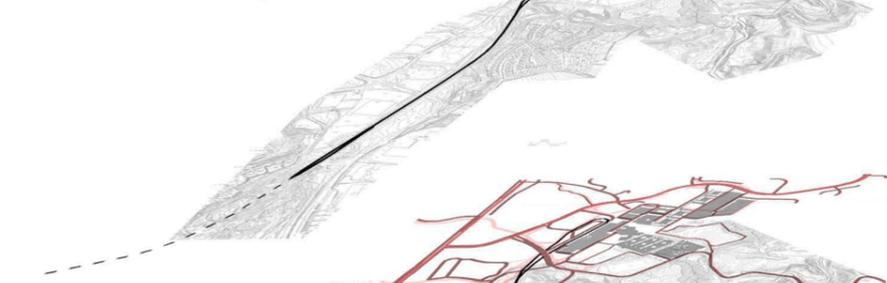
Bicycle Road



Car  
Main vehicles for residents living in villas



Bus  
Several lines to different parts

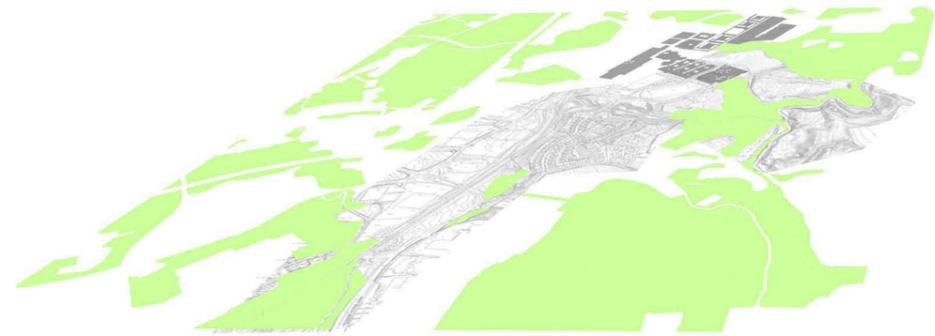


Tram  
Connect to city center

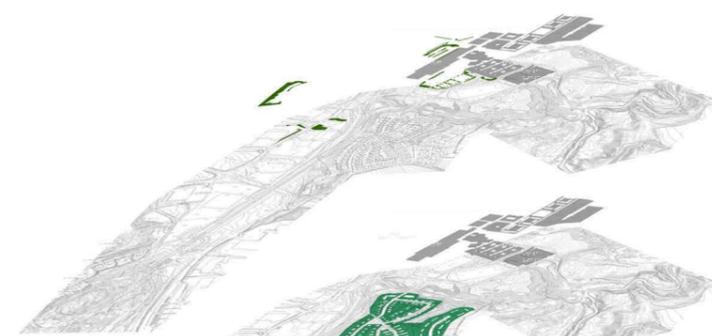


Road System

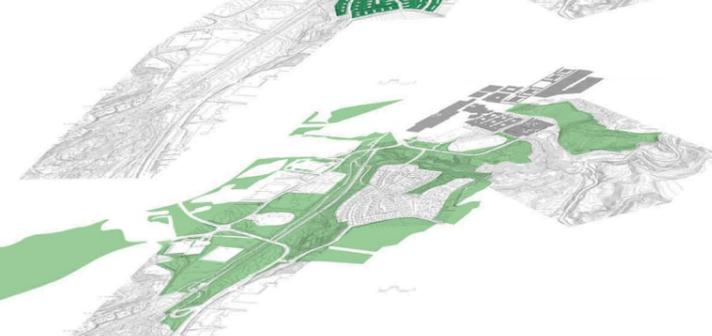
- Tram
- Bus
- Car
- Bike
- Path



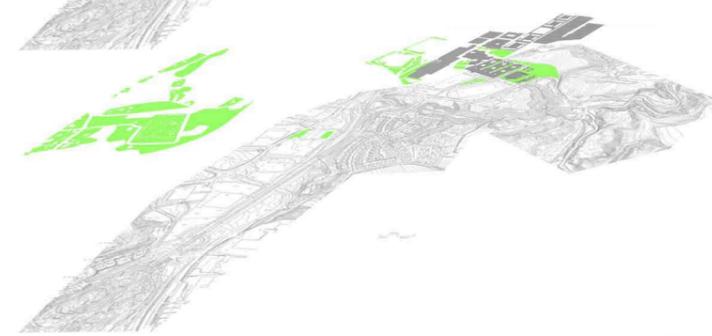
Forest  
Lots of natural resources



Green around parking lot  
Without green fence for noise



Green of villas  
Front gardens and back yards



Green open space  
Near human activated area



Green in-between buildings  
Lack of well-organized

Green Infrastructure

- Forest
- Green of parking lot
- Green of villas
- Green of open spaces
- Green in-between buildings

# CONTEXT

## Site Impression



References: google maps & individuals

# PARTICIPATION

## Timeline



7/11

**What:** Meeting  
**Why?** Knowledge about the project  
**Who?** Dan Melander/  
 Development North East

**What we discussed:**  
 Background info DNE//Connection  
 Hammarkullen//Future functions in  
 the area?//Questions?//Contact list

9/11

**What?** Interview  
**Why?** Gain knowledge about Lärjeån  
**Who?** Staff Lärjeån/vägenut!

**What we discussed:**  
 Produce goat cheese at Lärjeån//Planning to have Goats//The  
 deer's are destroying their land//Starting to build the entrance  
 soon//They have there own bees//Cleaning the water in  
 steps//Planning to have a place for picnic in the area//Their  
 business are growing//Conference, party's, weddings,  
 birthdays//Most of the people working are in work practice

[Fika]



18/11

**What?** Meeting  
**Why?** Arrange Workshop  
**Who?** Mats Carlsson

**What we discussed:**  
 Explained our idea for workshop and survey  
 He will come back to us on Friday

What we also discussed  
 Entreprenuer school//Students good key  
 persons//Example Borås - Kärringrundan//different  
 spots with handicraft

20/11

**What?** Meeting  
**Why?** Listen there opinion about Hammarkullen  
**Who?** Staff - Mix-gården

**What we discussed:**  
 Dan presented his thoughts//In Angered -  
 knowledge about agriculture//Restaurants are looking for locally  
 produced food//Knowledge about agriculture and handicraft are  
 not passed from generation to generation//People in Angered live  
 in the countryside but they don't crop their land//Dan wants  
 information about what to apply money for?!

What do you think? [Staff in Mix-gården]  
 The police are cutting down the trees//Nothing happens - Officials  
 only talks//A person tutoring young kids about farming,  
 handicraft?//Youth don't have any jobs!  
 Maybe their will be a agriculture school in Angered..?

Timeline showing our work process, from the start of the project to the finish. We, together with the other group, had to contact a lot of stakeholders and it was time consuming but worth it. Because we gained a lot of knowledge that we couldn't have gained otherwise. It was hard to grasp who to talk to, but thanks to Dan Melander we knew which stakeholders contact.



9/11

**What?** Interview  
**Why?** Learn about Lärjeån  
**Who?** Staff Lärjeån/vägenut!

**What se discussed:**  
 Queue for allotments gardens//They have  
 tomatoes, chilli, paprika, blommor etc..//They  
 are producing for the café //Communication  
 //Can't offer food security for the  
 café//Collaborate more//Want to produce  
 more//People sometimes work here 1-2 years  
 Staff kitchen 3-4 people//Staff agriculture  
 around 20-30 people//Refining [chili sauce,  
 apple juice.. etc]

[Talked about the weather]

20/11

**What?** Meeting  
**Why?** Tutoring  
**Who?** Dan Melander

**What we discussed:**  
 We (group1&2) presented what we done so far//What is the  
 feeling in the area?//Lärjeån is well known in the Gothenburg  
 //Lärjeån could better at market themselves!//Green  
 connections//Spots where you can experience the area  
 Nature bridge over the tram?//Visual contact, how can we  
 lead people trough the area?//Important about Lärjeån  
 [Suggestions]//Natural resourche, Lärjeån as an entrance to  
 the park?//Outdoor education, Agroforestry?//Place for  
 conference?//Appel trees?//Chickens? Camel farm..

[Group discussion]

20/11  
**Lokalt Göteborg**

They told us their position in this project. Similiar to our position, The method they work now: there is a hub in countryside gathering all the producers' products, then they use a distribution company to transport those products to GBG and sell//Because the producers are old farmers who don't know the way of selling thing.//But this way is expensive.//they want to build a online shopping website//High-rent for a store, so they provide this place, producers can rent a part of this store to sell their products.//High price to get a eco certification, they gather more small farmers to co-operate and share one certification.//They just start this year, lack of resource.//They want to bring transparency of the producing process to the guests. Understand the seasons//they said they are interested in co-operating with handicraft producers in Angered.

• [Other, typical swedish, things we did in between]

# PARTICIPATION

## Timeline

24/11

**What:** Meeting

**Why?** Knowledge about farming in GBG

**Who?** Annette Gustavsson, Fastighetskontoret

**What we discussed:**

Working with strategic questions, housing, recreation, business development//Gothenburg owns alot of agriculture land and forest.//Positive to own as capital and gives oppertunity. They are not building on//3 years ago started working to develop farming and buildings in a good way, togheter with Paula and Lars.//

Project should give something back - social aspect, for people passing, playing.//Important where this places are, proxomately 20 places about urban faming.//The place should be very small, working with an organisation, so it could//Tip: Agricullture development, start small, and develop and become bigger.//Your role in stadslandet? To create work, and land is one way to create work. Focus- work agriculture, food production.

[Talked about the weather]

24/11

**What:** Meeting

**Why?** Knowledge about development plans in Angered

**Who?** Wenche Lerme, Planning office Angered

Architect, studied at Chalmers, 70's, working at the municipality

No actual/official plans for the area//Alot of wishes for Angered Connect hammarkullen and Angered center.//Long-term project Spatial problems and social problems//Develope hammarkullen Important to plan for boys and girls//More activities for girls Maybe apartments at industrial area.//There is a need for more housing in Angered//Heavy industry, unmodern thinking//Beutiful street, femte långgatan?//APARTMENTS or villas? Mix use//More places for social meeting

25/11

**What:** Meeting

**Why?** She lives in the area and to ask about Agroforestry

**Who?** Wenxuan Zhang, living in Angered/ Agroforestry West/architect

**What we discussed:**

We discussed our proposal//rent bicycle// she will send us soem documents about agroforestry

[Fika]

27/11

**What?** Meeting

**Why?** Knowledge about Vögen ut!

**Who?** Pernilla Svebo

**What we discussed:**

The municipality are nor supporting Lärjeån, they dont want to invest in Lärjeån, for 20 years the municipality's been talking but making Lärjeån park into natural resourche.. Invested a lot of money on land they only rent from the municipality//the land is owned by the municipality

What do you want to do at the site?//Entrance to the park, Naturrum, room for telling about the species, kids can come and learn, Outdoor education, satisfied with the proposal//Hard for people to find there way, infrastructure not so good, not clear where to go, make it more visible//Lights so people can find there way, group rooms//Trees with apple trees from the shopping mall to Lärjeån//Visual contact with car, 20-30 parking lots for food festival or other events

27/11

**What?** Meeting

**Why?** Knowledge about agroforestry

**Who?** Bosse Blomkvist

**What we discussed:**

Reseacher at Chalmers, Started to work half time 10 years ago

Planned, if you have very good soil, then you can be very effectiv, set up in 10 years//He has develope another way, want to test other things, part of the charm is to test, not only use traditional things//trees doesnt take up metals and so on, if they do its not transported to apples

Mini kiwi can tolerate some kind of shadow//You can plant mushrooms//Mushrooms in the logs,

Gunnebo castle, heavy polluted ground, they could start to grow organic vegetables//Small fruit trees, feel unsafe if it a lot of vegetation,

2/12

**What:** Workshop

**Why?** Co-design & local knowledge

**Who?** Students from Angered Gymnasium

More information later in the portfolio..

1/12

**What?** Meeting

**Why?** Green Hammarkullen

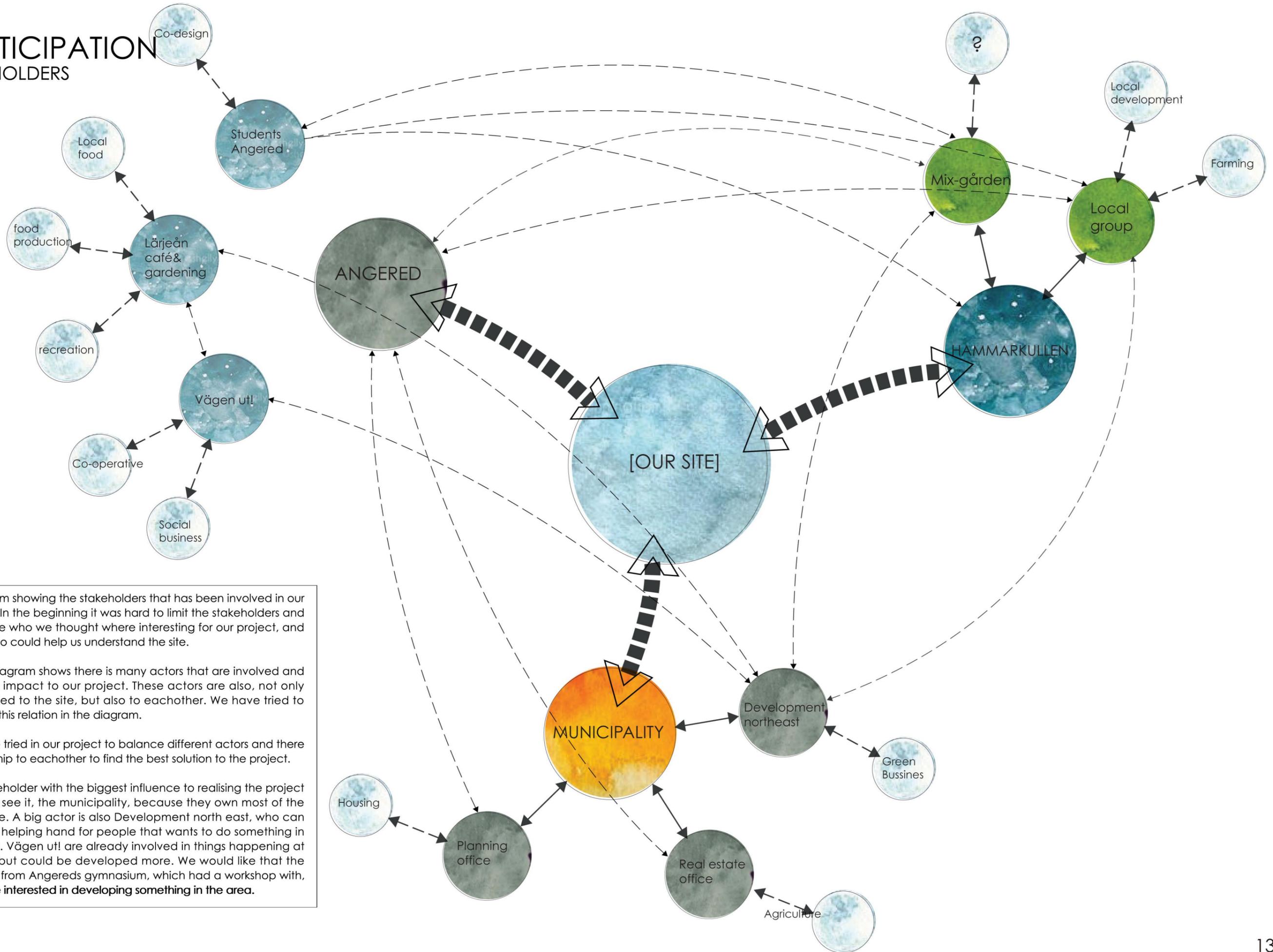
**Who?** Lasse Fryk, Dan Melander & group of poeople interested in green development in Hammarkullen

Arranged by Lasse Fryk//Dan Melander presented his ideas//A group of people that interested in developing Hammarkullen attended the meeting//many intersting thoughts where discussed



• [Other, typical swedish, things we did in between]

# PARTICIPATION STAKEHOLDERS



A diagram showing the stakeholders that has been involved in our process. In the beginning it was hard to limit the stakeholders and find those who we thought where interesting for our project, and those who could help us understand the site.

As the diagram shows there is many actors that are involved and have an impact to our project. These actors are also, not only connected to the site, but also to eachother. We have tried to illustrate this relation in the diagram.

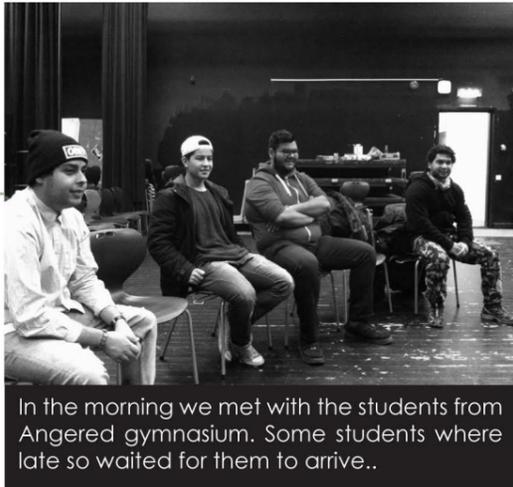
We have tried in our project to balance different actors and there relationship to eachother to find the best solution to the project.

The stakeholder with the biggest influence to realising the project is, as we see it, the municipality, because they own most of the land here. A big actor is also Development north east, who can act as a helping hand for people that wants to do something in the area. Vägen ut! are already involved in things happening at Lärjeån but could be developed more. We would like that the students from Angered's gymnasium, which had a workshop with, could be interested in developing something in the area.

# PARTICIPATION

## Workshop

### Introduktion



In the morning we met with the students from Angered gymnasium. Some students were late so waited for them to arrive..



FIKA!



We told them that we are working on areas which are close to Angered and that we wanted them to participate in our project.

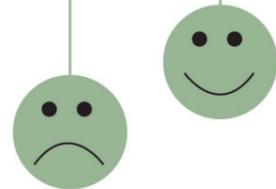
### Part 1



Then we explained to them that we wanted them to put stickers of sad and happy faces on the map.



Happy & sad faces



After they put out the stickers we asked them why they chose to put it there. All of the students were asked.



Why?

After meeting with Mats Carlsson, teacher at Angered gymnasium, we decided to have a workshop with the students of Angered gymnasium. We were very happy that they could participate in the workshop because we knew that it would give valuable local knowledge of the area.

What follows is a description of the workshop process. As you can understand we couldn't show everything that happened, but this is a sum-up of the workshop-day with the students.

We are very happy that we got the opportunity to meet with them and we have tried to implement their ideas into our proposal.



# PARTICIPATION

## Workshop

### Part 2



We explained that we wanted them to first think of functions that they want to add in our two areas.

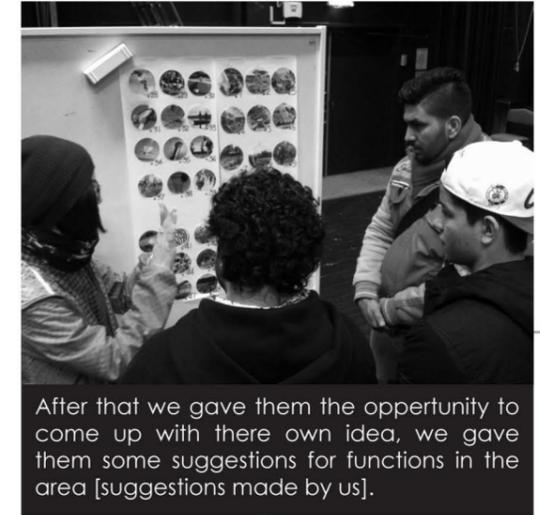


Funtions?

Here we did the same as in part1, we asked them all, one bye one, why they chose to put the functins there.



Why?



After that we gave them the oppertunity to come up with there own idea, we gave them some suggestions for functions in the area [suggestions made by us].

### Part 3



After lunch we went out, together with the students to do a survey in Hammarkullen, Angered C and City centre.



Ursäkta mig?



Hammarkullen

City centre

Angered C

### Sum-up



At the end of the workshop we did a sum-up and asked the student what they thought about the day. We also said what we thought about the workshop. The overall impression from the students, and us, was that it was an interesting and fun day.

### What do we put into our design?

Student housing

Outdoor gym

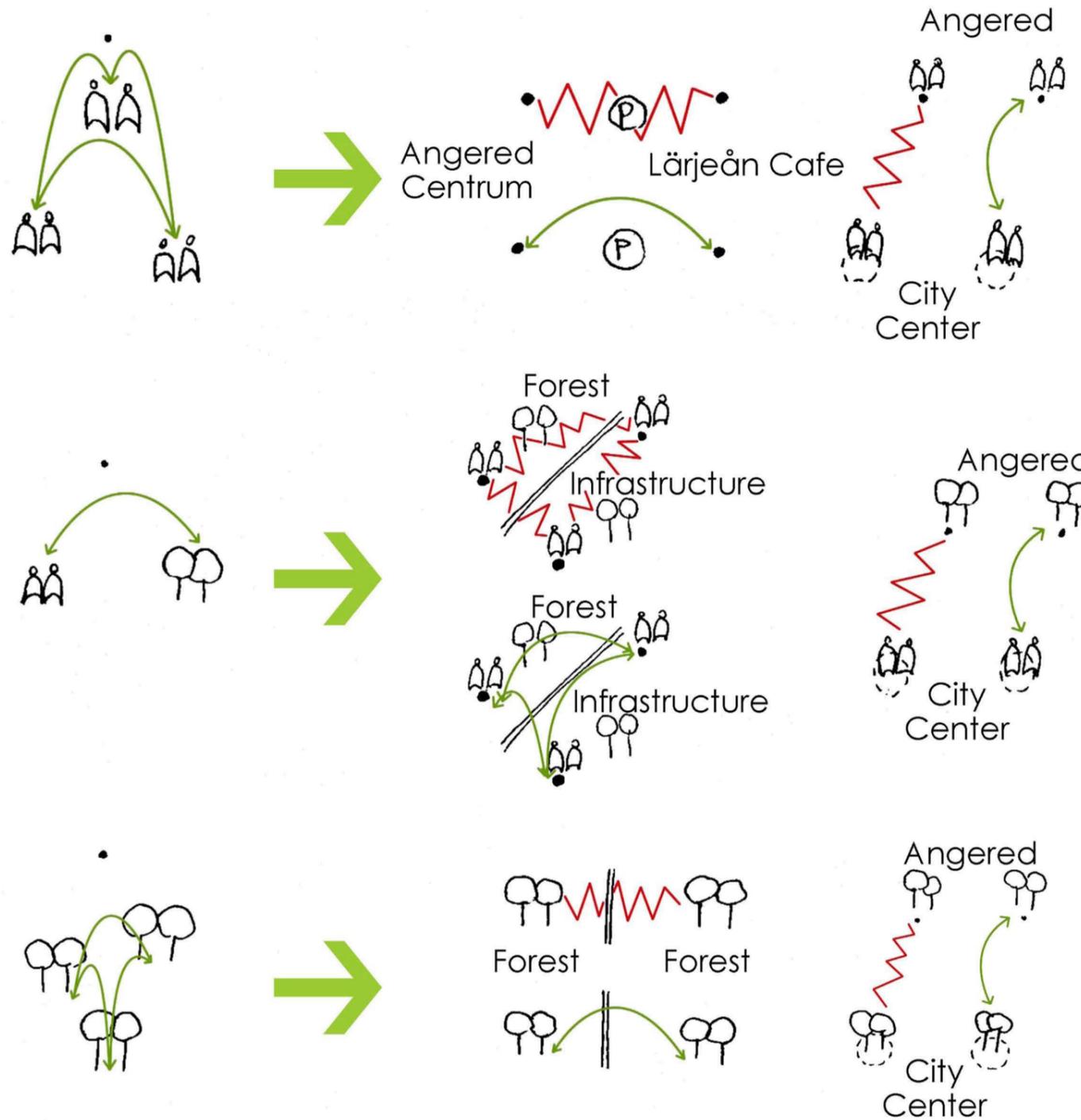
Mini golf

Open green space

# ANALYSIS

## Conclusion

For Angered, opportunities always work with challenges. Opportunities hides in initiatives from multi-cultural skills like handicrafts and agriculture which local Swedish lack of, also in resources of nature. Challenges lies in how to organize the attractive points together to make mix-functional area, which can provide different and special kinds of services only in Angered.



Firstly, for residents in Angered, they are willing strongly to break isolation from the urban center. When citizens can only by tram or spend a lot of time on taking bus to a place they know little, Angered lacks of the attractive point for them. If natural resources are seen to be a developing point, as the entrance of Lärjeån valley, facilities and activities spots in Lärjeån cafe have to be upgraded. Especially, for those who want to visit Lärjeån cafe from Angered center, it is hard to find their way.

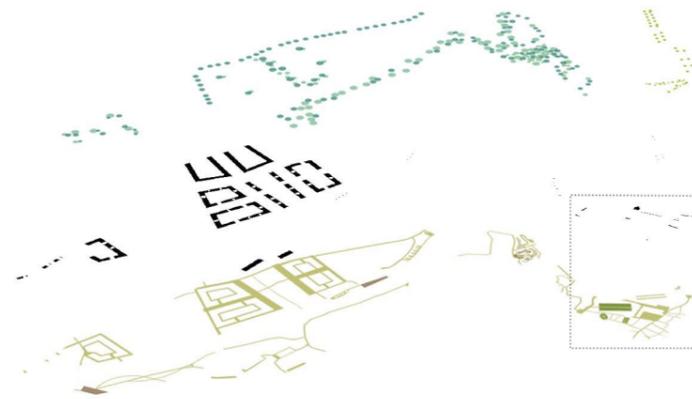
Making good use of natural resources, it will produce a lot of chances for creating diverse recreational spots for human. Nowadays, there are different kinds of activities in forest of Angered. In Lärjeån valley, near the site, there is a horse riding basement and camel farm, which serves people enjoyable moments with animals. However, northeast part is developing so that facilities and infrastructure are not that well-organized. One of our task is find out how to link the existing infrastructure with existing and new facilities to form a good leisure area.

To maintain the natural resources, planning preservation is not enough. Because sustainability not just stays in ecology or biodiversity, social interaction and economic growth have to be thought about. To sustain the relationship between human and nature, ecological resilience should be the foundation of development. To analyse the whole Göteborg, green corridor is connected towards city center. Without hurting ecological balance of the site, potential of linking two green corridor nearby is a challenge for this project

# PROPOSAL

Layers

Adding elements

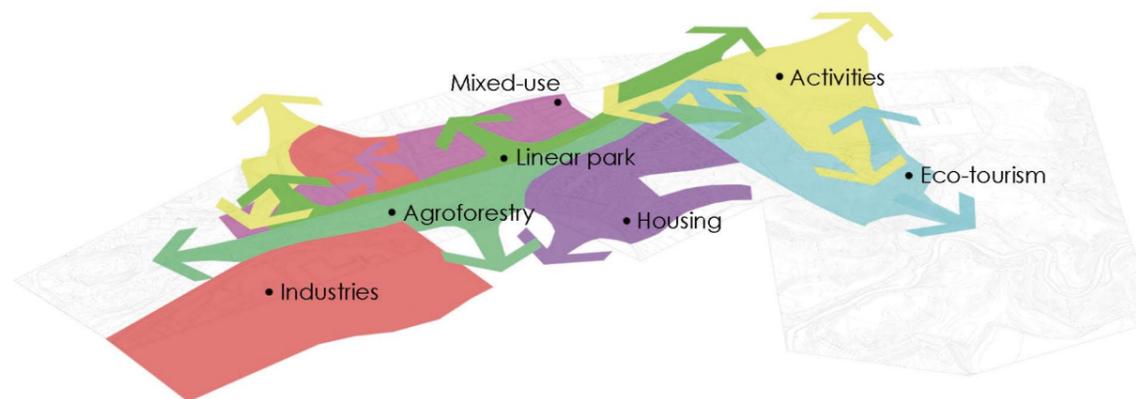


Planskiss Lärjeåns Kafe & Trädgårdar  
Designed by frigående arkitekter  
25 feb 2014

Existing environment



Founctional zoning



# PROPOSAL

## Master Plan

1. Art gallery / Greenhouse
2. Housing
3. Office
4. Greenery
5. Greenhouse
6. Viewing platforms
7. Reception
8. Rental bicycle station
9. Villa
10. Neighborhood park
11. Parking lot
12. Student accommodation
13. Agroforestry



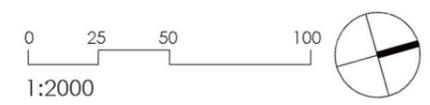
# PROPOSAL

Master Plan



- 1. Villa
- 2. Rental bicycle station
- 3. Neighborhood park (mini golf)
- 4. Wooden walls & billboards
- 5. Parking lot
- 6. Eco-cabins
- 7. Reception
- 8. Outdoor gym
- 9. Fruit trees alley
- 10. Greenhouse

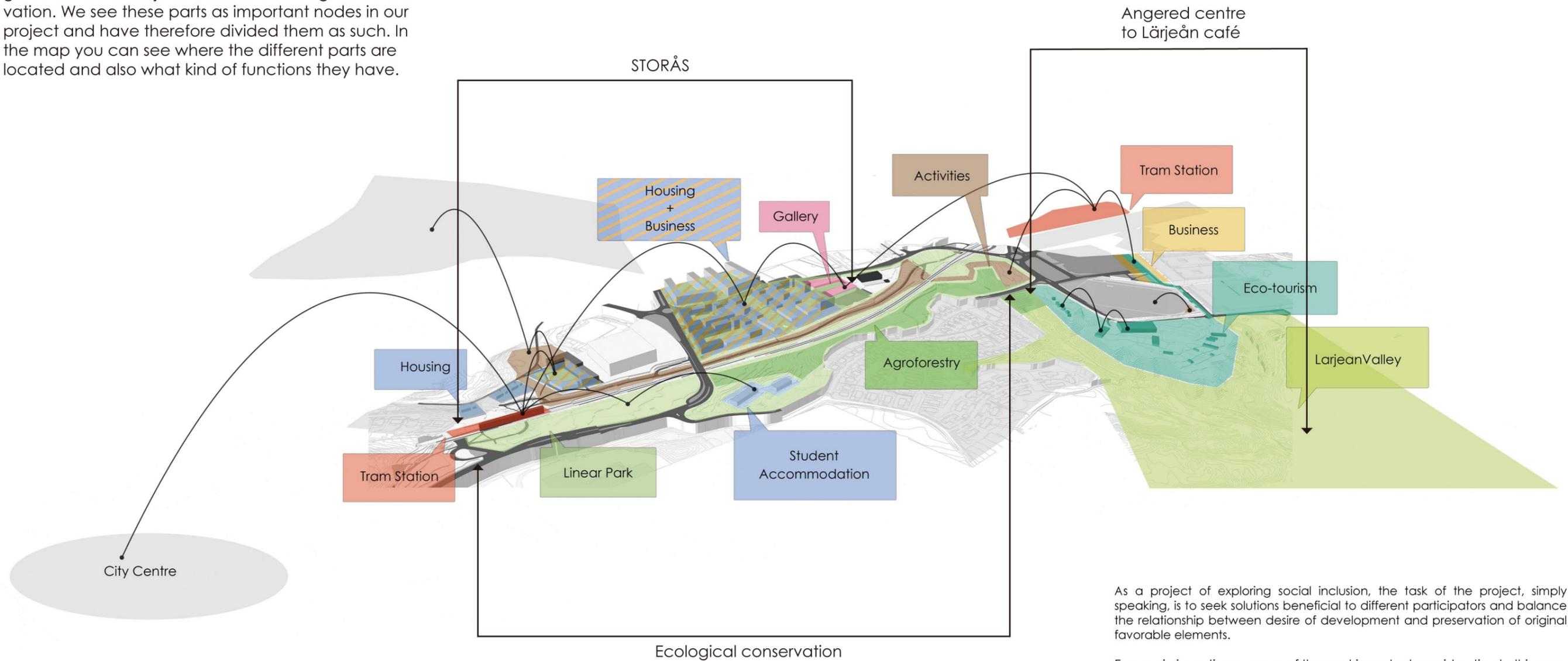
Lärjeån cafe & garden  
(Designed by frigående arkitekter, 25 feb. 2014)



# PROPOSAL

## Strategies

We divided the proposal into three parts. Storås, Angered centre to Lärjeån café, and Ecological conservation. We see these parts as important nodes in our project and have therefore divided them as such. In the map you can see where the different parts are located and also what kind of functions they have.



As a project of exploring social inclusion, the task of the project, simply speaking, is to seek solutions beneficial to different participators and balance the relationship between desire of development and preservation of original favorable elements.

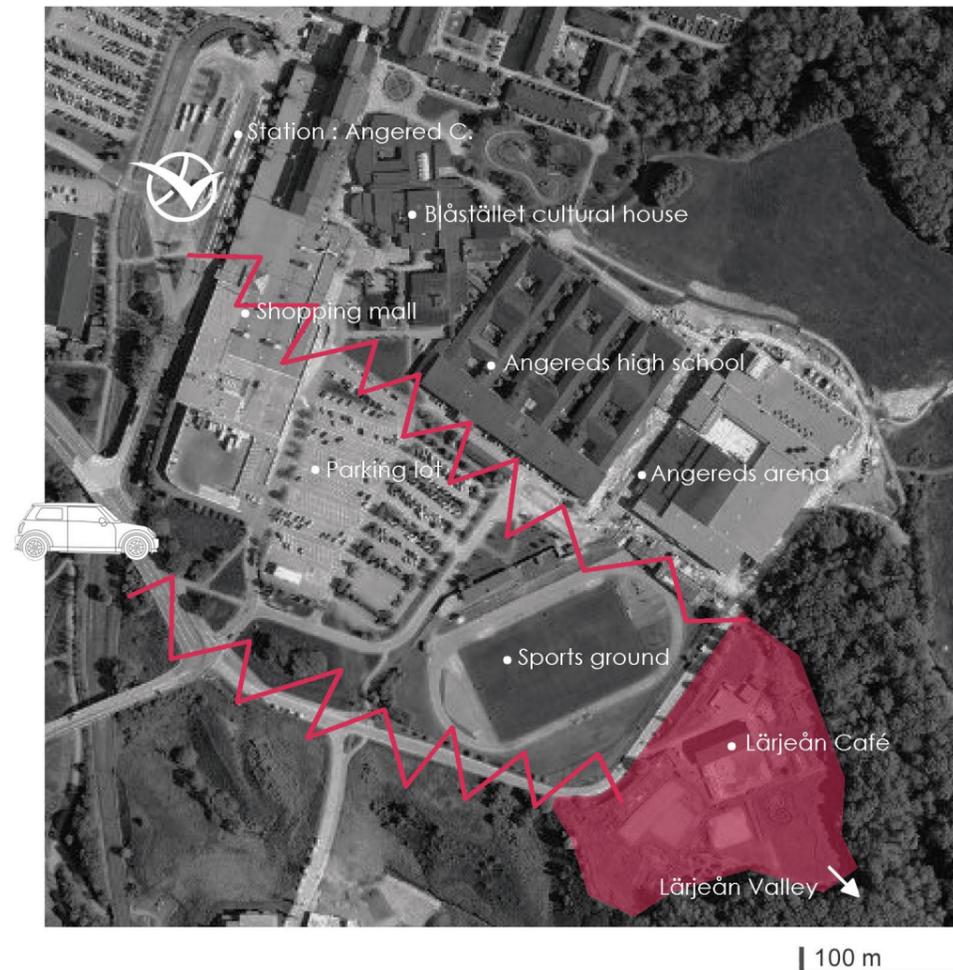
Economic incentives are one of the most important consideration to this area, to increase more jobs with improving life quality, different factors have to be integrated on the foundation of existing infrastructure and advantages of local residents.

Attractive points of Angered may be the large amount of natural resources and potential handmade skills from multi-culture residents. As functions in the site are isolated and simple, lacking of activities and alive atmosphere, tram line between Storå and Angered centum stop gives the first impression for visitors and residents. Our proposal concentrates on creating mix-function neighborhoods, innovating some industry into leisure spaces as new meeting points and adding in-between green to make livable environment to densify the area along the tram line.

Meanwhile, to preserve nature and reduce the influences from human society, agroforestry is an useful transition, which provide potential for ecological restoration between them.

# ANGERED C. - LÄRJEÅN CAFE

## Existing Problems



Although Lärjeån Café is chosen to be one important part of the development hub, and its location seems very close to Angered Centrum in Google map. It is not just that easy to find the way to go there when you are being in Angered Centrum. The gap is existing. According to our investigation, we think that many people mainly get off from Angered Centrum station and enter into their destinations like the shopping mall, then stop moving further. Besides, the atmosphere near the large parking lot seem so deadly, which may be one reason that people don't walk further and see the cafe in Lärjeån. Even to people who come to visit Lärjeån Cafe on purpose, by car or by public transportation, it is also difficult because there is no guiding equipment showing way to the cafe.



To solve those problems, our main task is using some design methods to connect Angered Centrum and Lärjeån Cafe. These are some proposals we have designed:

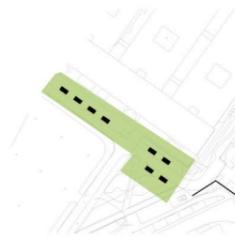
1. Greenhouses
2. Wooden walls & billboards
3. Fruit trees alley
4. Outdoor gym
5. Parking lot
6. Reception
7. Eco-cabins

# ANGERED C. - LÄRJEÅN CAFE

## Solutions

### 1. Greenhouses

Greenhouse is a good way to cultivate vegetables and plants. Since this location is near the shopping mall, the high school and the parking lot, why not combine them with some other functions like office, boutique, cafe or tea house, etc.



Handicrafts made by skilled residents

Green entrepreneur



### 2. Wooden walls & billboards

According to the newest design by Frigående Arkitekter, wooden walls will be used to build an new entrance for Lärjeån Cafe. By using the same way to build walls and billboards alongside the roads, an 'entrance' feeling would be extending which may let the visitors easier to find the cafe.

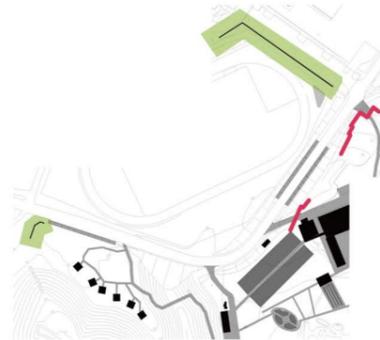
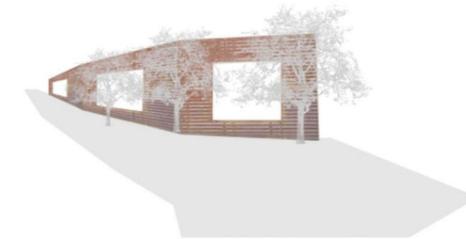


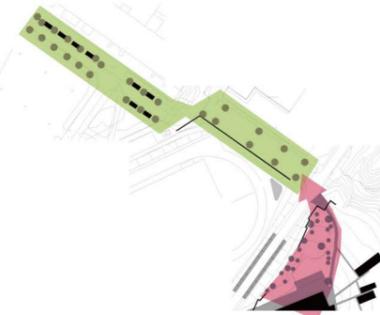
Bild: Frigående arkitekter.

FRIGÅENDE ARKITEKTER



### 3. Fruit trees alley

From our meeting with Pernilla (Vägen ut!), she suggested that some fruit trees could be planted alongside the roads. Since the staffs of Lärjeån Cafe had planed to plant trees inside the garden, why not extend to outside and create a fruit trees alley, then let people to enjoy the beauty of these trees and even pick some fruits from them.



"...some fruit trees could be planted alongside the roads...to create an alley..."



### 4. Outdoor gym

In the workshop with Angeredsgymnasiet, one student suggested that an outdoor gym could to build near the sports ground, because people who come to exercise or play soccer need a place to do some warm up exercises.



"...an outdoor gym could to build...need a place to do some warm up exercises"

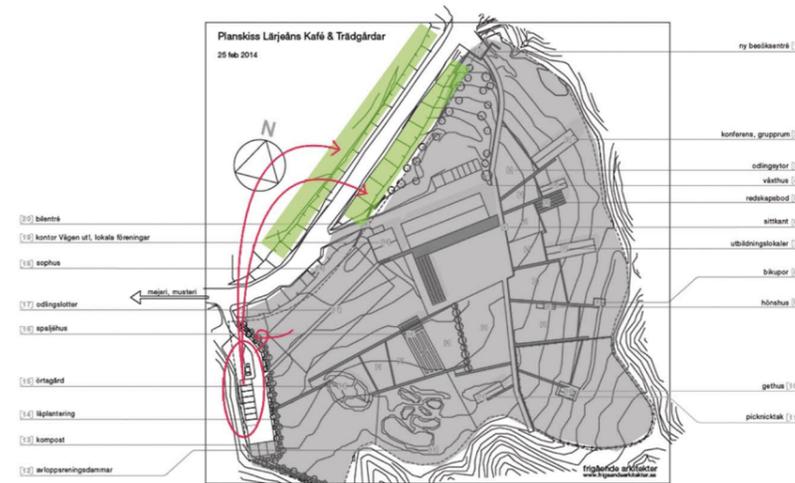


# ANGERED C. - LÄRJEÅN CAFE

## Solutions

### 5. Parking lot

Parking lot for Lärjeån Cafe is removed from the previous location to the roadside, to fulfill the requirement from Pernilla (Vägen ut!), new parking lot can provide enough place for about 30 cars.



Since the layout of Lärjeån Cafe & Gardens have designed by Frigående Arkitekter, Pernilla (Vägen ut!) said that she want most of that design could be preserved. But she is not that satisfied with the parking lot in the previous planning. It would be better to park cars alongside the road, it is more convenient for tourists according to the previous experience. And there would be more places for car parking, which is needed especially in summer.

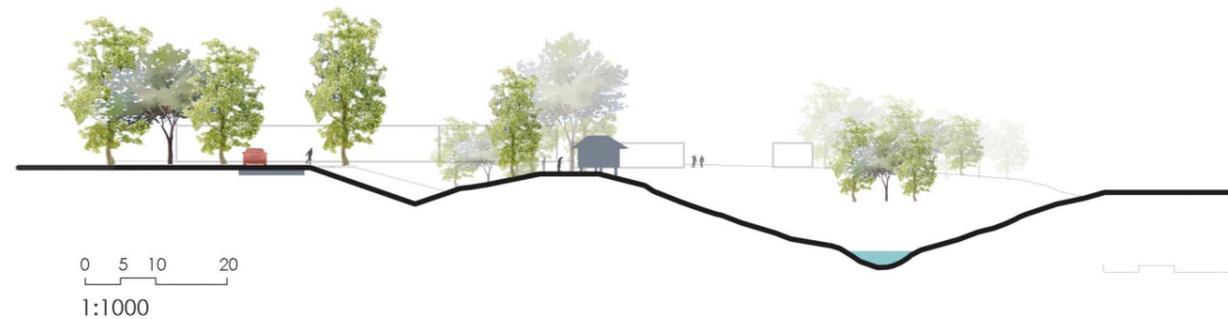
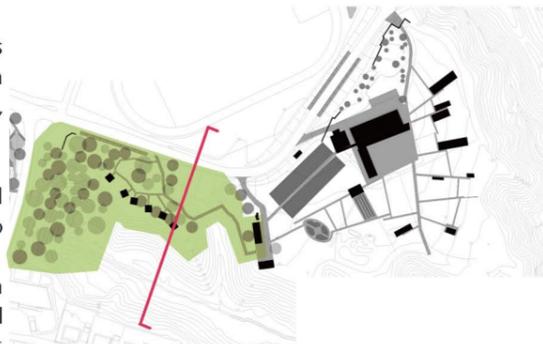


FRIGÅENDE ARKITEKTER

### 6 & 7. Reception & eco-cabins

The reception for eco-cabins is placed in the previous location of parking lot within the garden, which is a good link with Lärjeån Cafe and the eco-cabins and services could be provided for guests from two sides.

Eco-cabins are placed far from Lärjeån Cafe, in a more tranquil environment facing a great view of Lärjeån Valley. There is also a new parking lot near these eco-cabins, and agroforestry would be planted near them to show its beauty and function.



- Eco-cabins are set near the cafe
- Seeing the spectacular view of Lärjeån Valley
- Place for overnight stay for eco-tourists

# ECOLOGICAL CONSERVATION Strategies

The idea of mini golf comes out from the participation with the students from Angered high school in the Preliminary analysis. The slope of the site is suitable for activities. And it mainly serves the residents living in the villas.



Mini golf + Picnic

Abundant natural resources provides chances for green business in Angered. In this part, typology changes dramatic, agroforestry is good for soil erosion, provides jobs for immigrants from agricultural culture and produce food in a ecological way.



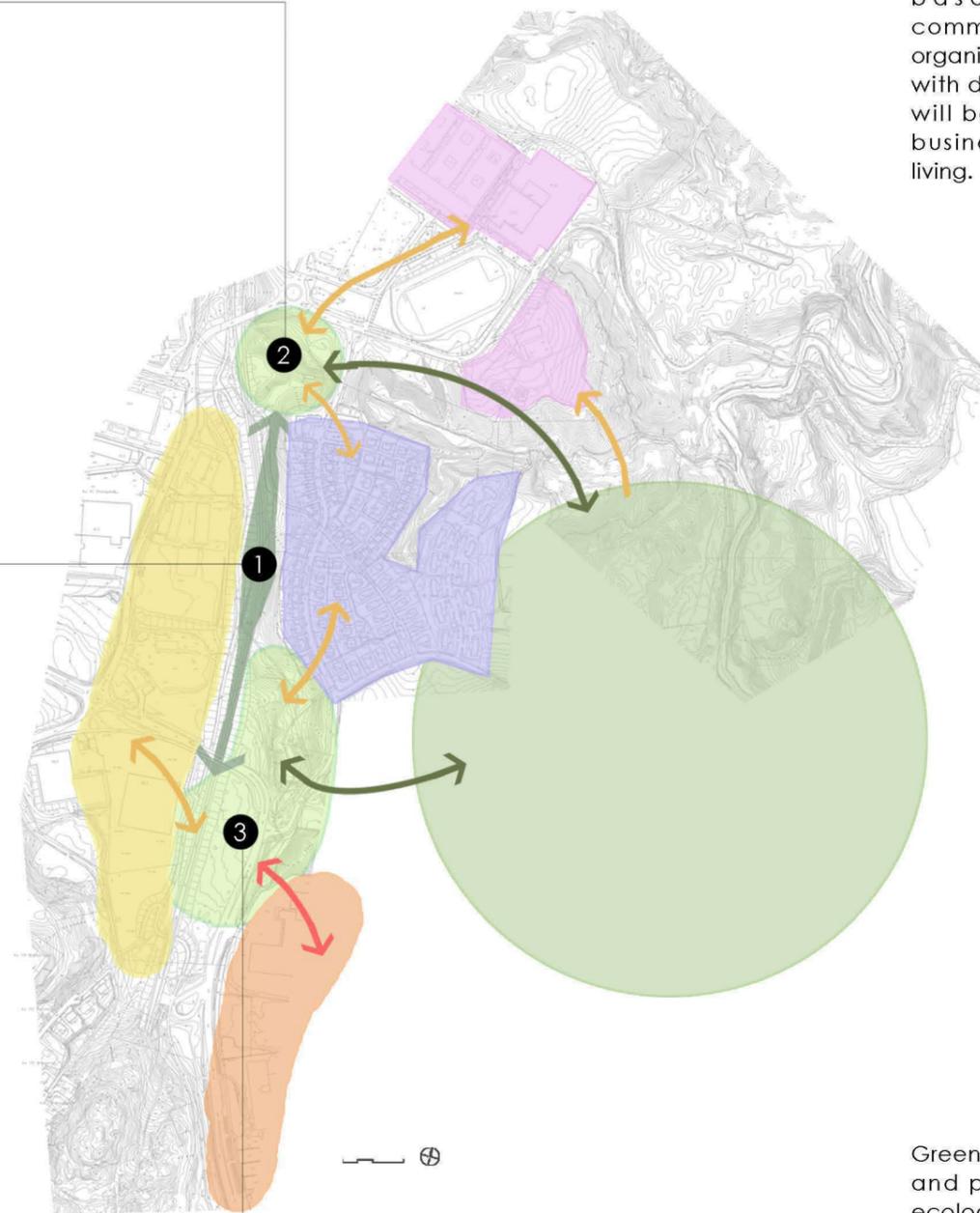
Agroforestry



Outdoor recreation park can served residents nearby and also attracts visitors travelling along the tram line between Stora and Angered.



Neighbourhood Park



- Services
- Green spaces
- Forest
- Future construction area
- Residence
- Industry
- Potential
- Green Fence
- Ecological connection

The potential of Angered hides in the natural resources, but not that Conducive to human living and career chances. Considering the advantages for residents and political developing willing, our team decide to densify the site by mix-functional planning. Additionally, based on the analysis and communication with individuals and organizations, different types of buildings with diverse function added to the site will be a flexible choice to develop business and maintain comfortable living.

Green land is very important for mental and physical health, meanwhile for ecological balance. One of our tasks for urban-rural hub is to maintain nature and develop in a proper way. To adjust the micro climate and add more recreation to the site, not only buildings, but also green spaces should be organized well.

# ECOLOGICAL CONSERVATION

## 1 Agroforestry

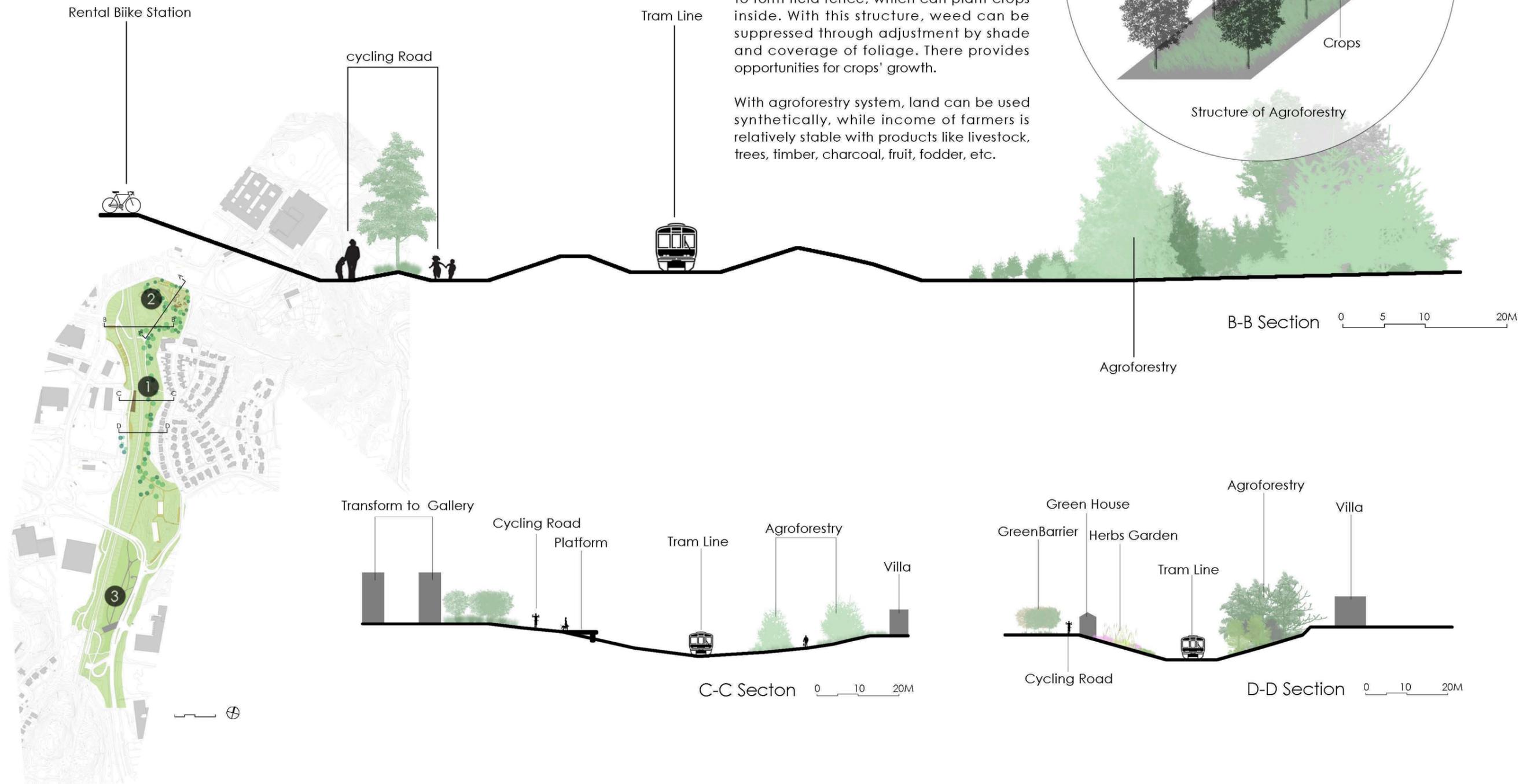
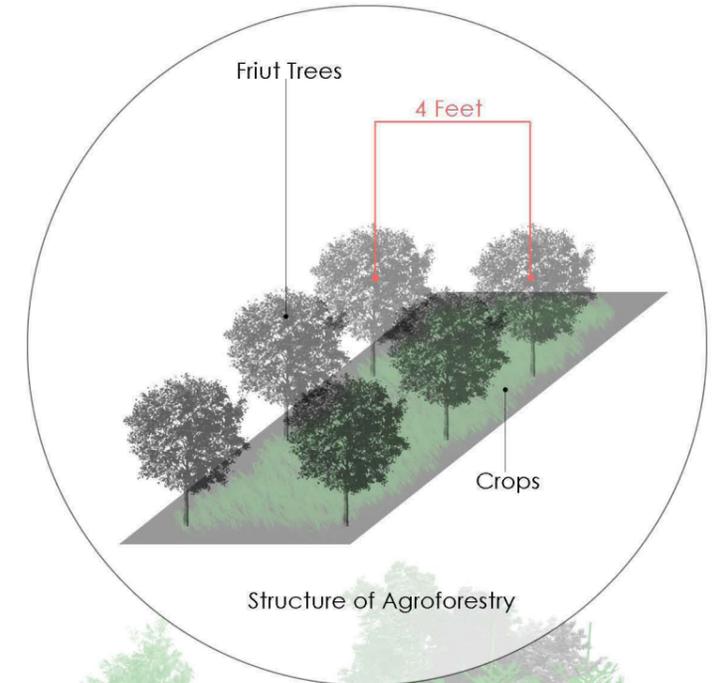
Making use of the complicated structure to protect the farmland from insects pest and adjust the microclimate locally, agroforestry can balance the relationship between nature and human agricultural activities, also being a transition for both of them.

Agroforestry provides services for many aspects. Firstly, provide shade and wind. Secondly, Reduce water evaporation and stress on animals; increase agricultural production. Thirdly, control pests. Fourthly, improve soil permeability and reduce flooding.

Types of trees are one of the key factors for agroforestry system. Choosing proper trees can help provide shade and spaces for the growing of crops underlying. Some trees can even drive away the harmful insects for crops, which is a method to reduce pesticide and increase the production.

As references, alley cropping is a widespread way of agroforestry. It advocates that planting fast-growing trees every 4-6 meters to form field fence, which can plant crops inside. With this structure, weed can be suppressed through adjustment by shade and coverage of foliage. There provides opportunities for crops' growth.

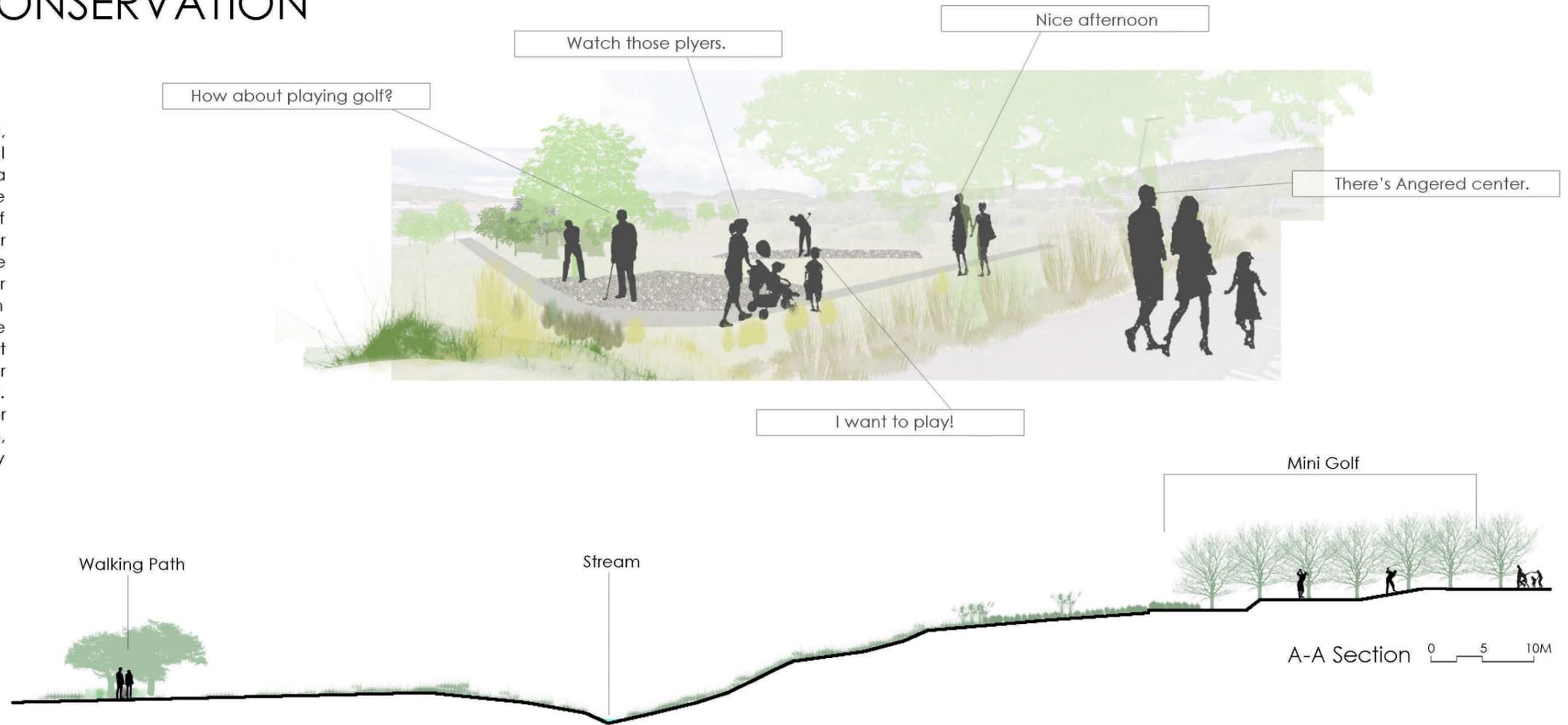
With agroforestry system, land can be used synthetically, while income of farmers is relatively stable with products like livestock, trees, timber, charcoal, fruit, fodder, etc.



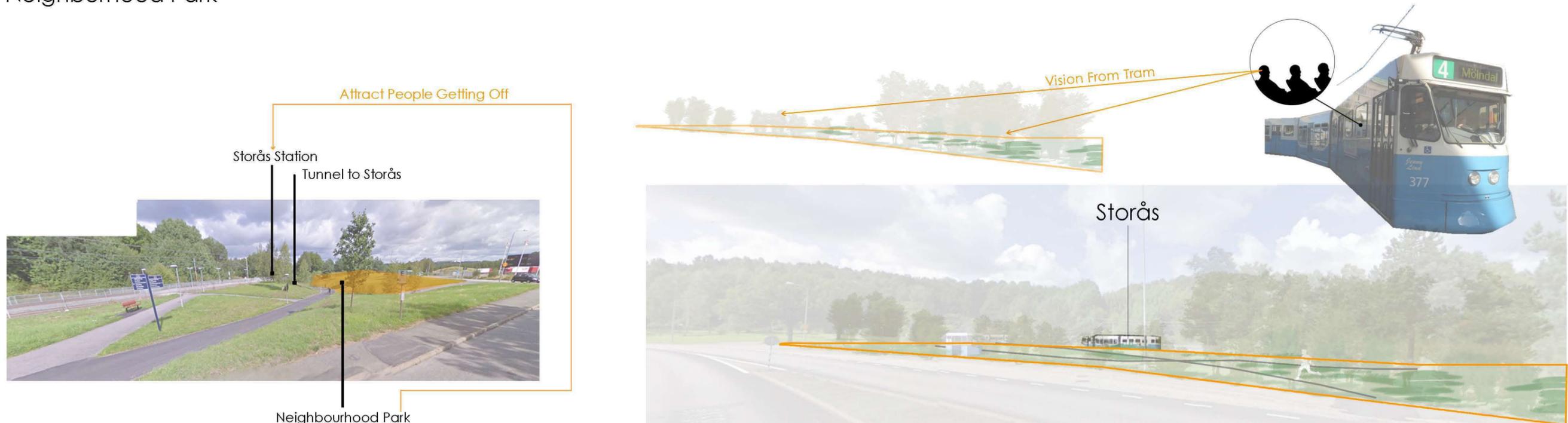
# ECOLOGICAL CONSERVATION

## 2 Mini Golf

Recreational area serves open spaces, clean air and leisure spaces for local people and visitors. Though the site has a big residence, its shortage lies in the inadequate facilities surrounded. If residents want to exercise or relax, their only choice is the forest. However, as the forest is so big, it takes a long time for them to climb up hills to reach activities' spots. The best way to solve the problem is to add a small leisure spot where is flat and with good view near the residences and Angered Center. Passersby will naturally be the guards for people playing in the spot. Meanwhile, players can also upgrade the lively atmosphere and attract walkers.



## 3 Neighborhood Park



# STORÅS

## Floor heights, functions & mix-use

### Floor heights

Diagram showing the buildings and their different heights. Access to sun and noise has been considered when dividing heights. Note that no sun study has been made, because of lack of time, but earlier experience has been used to divide the heights.

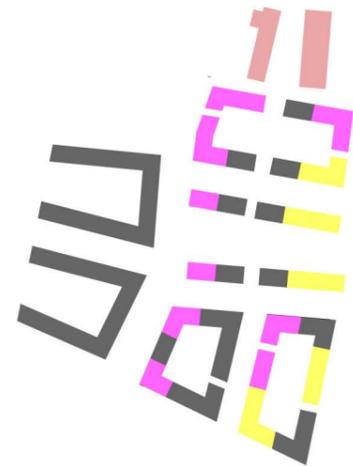
### Functions

The area has been divided into different functions, where offices are placed to protect from the apartments from noise. The new villas are planned to be an extension of the existing villa area. The reception is placed to attract people coming with the tram, planning to visit the Eco centre. We propose that the existing small industry could be transformed, in a few years into green house and art galleries.

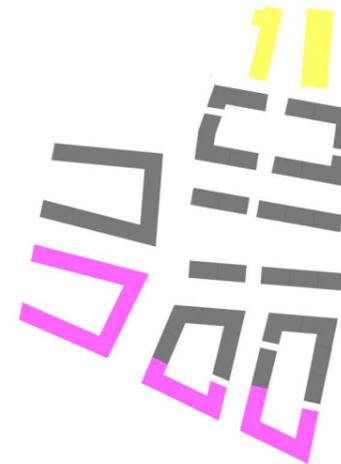
### Mix use

The area should be pedestrian friendly with diverse ownership, heights, colours, material and if there is a need also shops and/or restaurants in the ground floor. Shops and restaurants should be placed together, concentrated, and form a "shopping street" if possible. Where this could be needed to be investigated more.

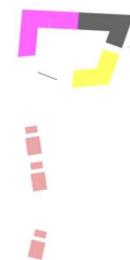
Floor heights



Functions



Mix-use



- 1-2 floors
- 2-3 floors
- 4-5 floors
- 5-6 floors



- Housing
- Office
- Villas
- Reception
- Art gallery/green house

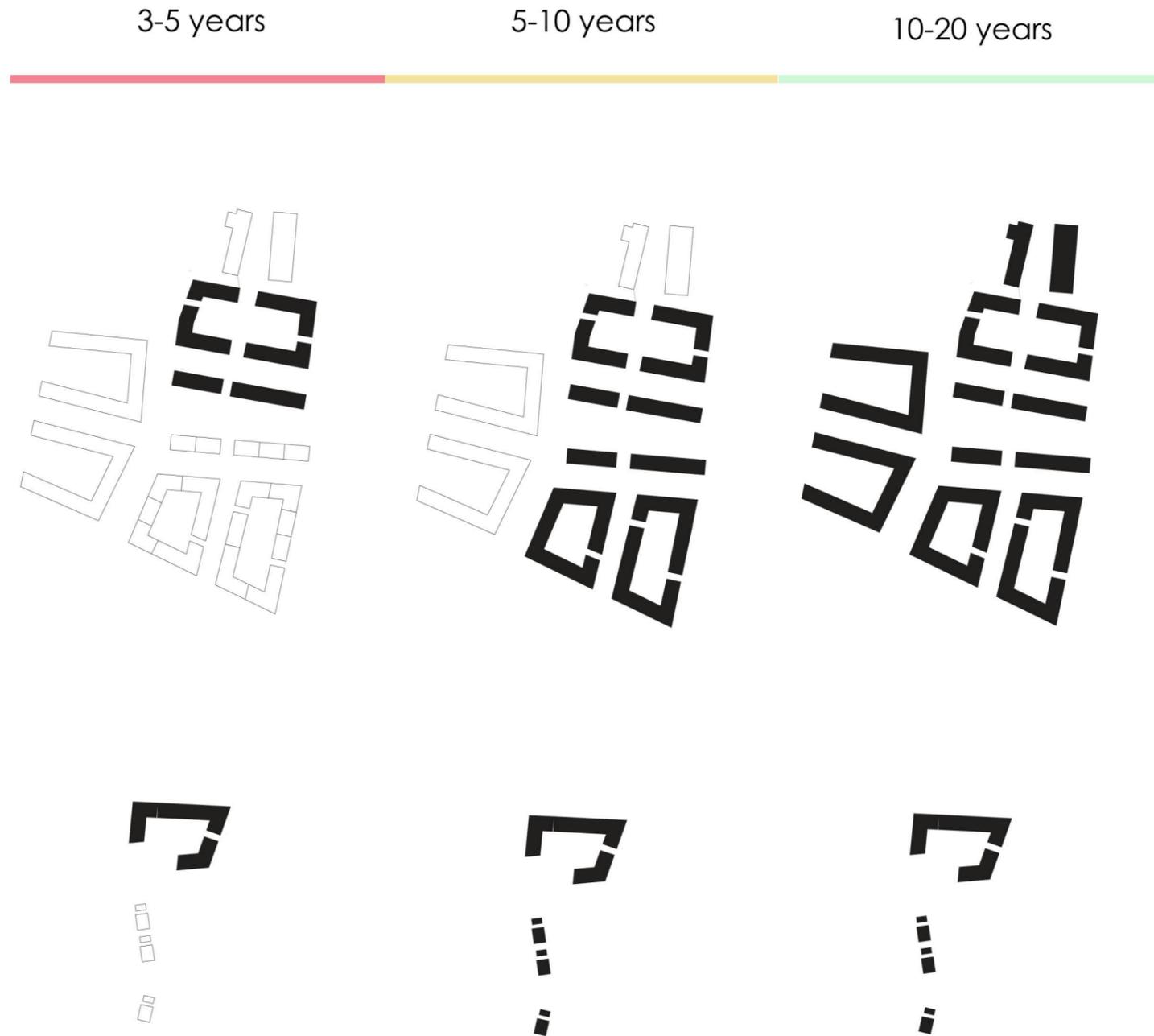
# STORÅS

STEP BY STEP

In 3-5 years we propose that the empty plot close to the small industry could be transformed into area for apartments. And the area close to Storås tram station can be built.

In 5-10 years we imagine the possibility to that much of the area are transformed, with reservation that the existing small industry are still in use.

In 10-20 years the area close to Rösered, west of Spadegatan, can be developed with both housing and offices.



# STORÅS

Perspective



From the the Storås tram station you have visual contact with the reception that will take care of tourists or other people coming to visit the Eco center at Rösered. The area could also give opportunity for people living there in villas and apartments. As the perspective shows the area is very close to Storås tram station and from here it's only 20 min to the city centre.

# STORÅS

Section

A-A 1:500



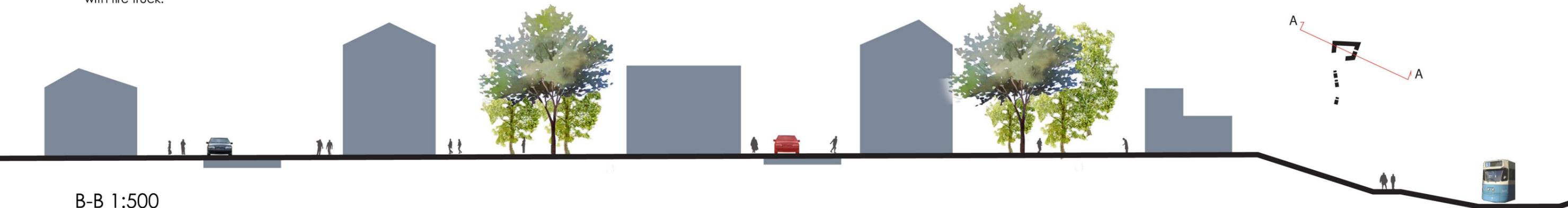
The old industrial area

A section showing the space between the buildings and as you can see the typography is flat. It's important that the slope down to the pedestrian road and the tram line is handle in good way, so it's easy to access the road from the housing area and the other way around.

The courtyards are generous so that the sun can enter and to give space for common activities. The trees should also have a central place in the courtyards.

The area should be pedestrian friendly, but it's possible to access by car and with fire truck.

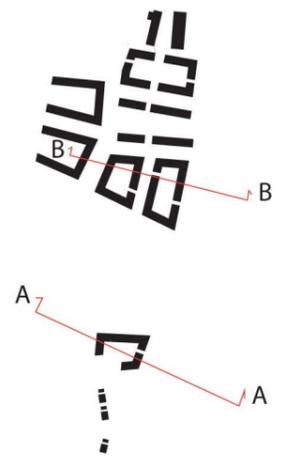
B-B 1:500



Storås tram station  
The typography is changing slightly but not dramatically and the houses can be placed on relatively flat ground.

It should be noted that a new industry has been developed close by, and further industrial development could be in planning (but nothing we have knowledge about)

The section shows that the area is close to the tram, and the tram stop Storås is very close.



# PROPOSAL

Perspective



# EXHIBITION

## A GREEN CONNECTION A New Urban - rural Hub Inbetween Angered C. & Storås

**BACKGROUND**

**PARTICIPATION**

**DIAGRAM ACTORS**

**TIMELINE PROCESS (Interviews & Meetings)**

**WORKSHOP WITH STUDENTS AT ANGERED HIGH SCHOOL**

**CONCEPT**

As a project of exploring social inclusion, the task of the project, simply speaking, is to seek solutions beneficial to different participants and balance the requirements between those of development and preservation of original landscape elements.

Economic incentives are one of the most important considerations in this area, to increase more jobs with improving the quality, different factors have to be integrated on the foundation of existing infrastructure and advantages of local residents.

Attractive points of Angered may be the large amount of natural resources and potential landscape skills from sub-cultural activities. An functions in the area are schools and sports, housing, agriculture and some similarities with the between Storås and Angered centrum also gives the best impression for visitors and residents. Our project concentrates on creating new function neighborhoods, involving some industry this allows spaces for new meeting points and adding inbetween green to make inbetween development to study the area along the train line.

Moreover, the project will make individual the influence from human society, agriculture is an useful foundation, which provide potential for ecological restoration between them.

**STRATEGIES**

Flat impression - Perspective in train

Section 1

Section 2

Section 3

Agri-estate

Greenhouse Offices / Boutique / Cafe / etc.

**ANALYSIS**

Adding elements

Existing environment

Fourfold zoning

Metropolitan

Agri-estate

Greenhouse Offices / Boutique / Cafe / etc.

**ANALYSIS**

Adding elements

Existing environment

Fourfold zoning

Metropolitan

The poster from the exhibition above. To your right some pictures from the exhibition day. We all started preparing on floor 6 and then went to the red house to prepare and hang our posters. Anticipation in the air! We are happy that so many came to listen to us!



# FINAL CONCLUSIONS

## Conclusion

During our process we learned that involving people, interviewing stakeholders and booking meetings and preparing them – is time consuming. But we also realized that this has been our most important source of inspiration and has given us vital information to the project. We are not only glad that we had the opportunity to meet so many people, but we also think it gave our proposal a robustness that it wouldn't have had otherwise.

Our site is, as you may have noticed by now, large in both a geographical sense but also when it comes to limit the amount of stakeholders. We managed to find a way to choose who to talk to thanks to Dan Melander, but also our talented group with Miriam, Dafni and Nathallie. We owe them many thanks for helping us in different ways, and hopefully we have given them something back.

As mentioned we had to limit our task both physical and when it comes to stakeholders, but we think we managed to find a way to do this in a good way. The amount of interviews and meetings were a lot, but were not overwhelming us [maybe sometimes] and the geographical area for design was big, but we think we managed to handle it in a good way.

When it comes to handling interviews we learned that improvising is a good attribute to have, but also to be prepared in a good way. We think we managed the interviews in a good way, but as always you can improve your techniques. For sure it has been a learning experience to interview all these people.

Arranging a workshop is nowhere easy and also here you need to improvise in some sense. For example, people that we expected to come didn't show up and people were late. This is of course natural, but when we are two groups planning it's harder to improvise, because you have to discuss the changes within a quite big group. [the changes we made should and could have been better discussed within the group]. As a whole we think that the workshop was a success and gave valuable information for the project, but also as a learning experience for further work both as a student and professional landscape architect and planner.

