

# SIMBIOSY AT NYTROP

Neighbours from Nytrops are going to have their home natural pharmacy; growing Medicinal Plants in the field which will be pollinated by the Honey Bees from the apiary.

Medicinal Herb Farm

Bee Apiary

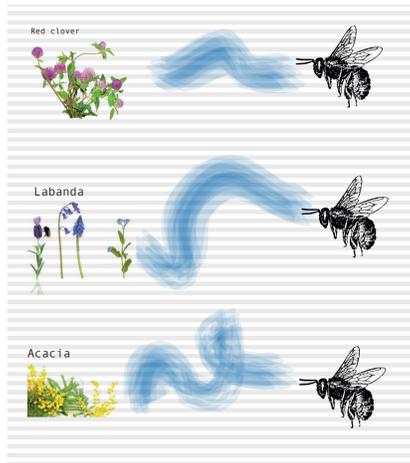
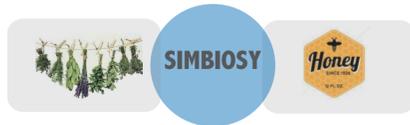
1 GREEN HOUSE \_ 10 FAMILIES



15 GREEN HOUSES \_ 150 Families



Traditional Green House



1bee colony \_ 22Kg honey year



12 hives \_ 264 Kg honey year



528 HONEY POTS/ YEAR

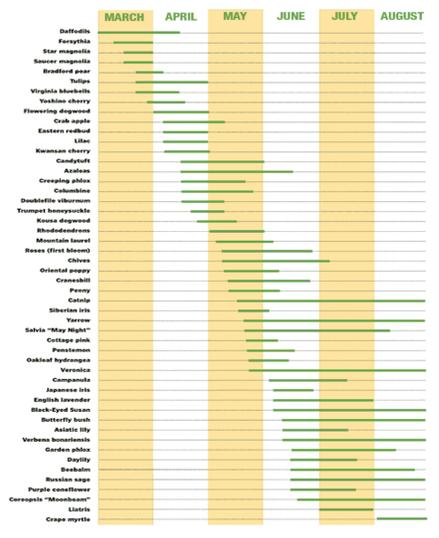


Traditional Apiary



## CALENDAR: WHEN THE PLANTS WILL BE POLINATED BY THE BEES

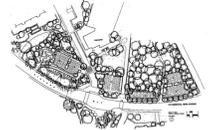
This is an example how it will look like because I am still working in the one with my list of plants selected.



MULTI-FLOWER HONEY  
The result is a honey called multi-flower, made with variety of divers flowers

## garden REFERENCES

University of Washington's Medicinal Herb Garden



Ancient medicinal garden plan inspired by the parts of the body.



## URBAN CONDITIONS FOR BEES

- Place surrounded by néctar-polinifera vegetation
- Not a most / wet place
- In an accessible place
- Flat field
- They need natural source of water close to the hives.
- 200liters recipient. 2liters x day x hive
- Not a most / wet place

- 200m from residential buildings or public roads.
- From the swimming pool as well



Hives against strong winds - Shrubs or trees to stop the strong wind



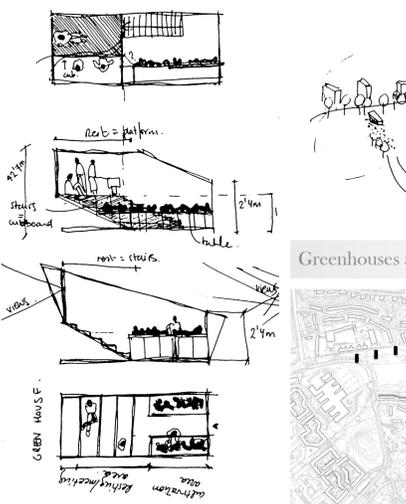
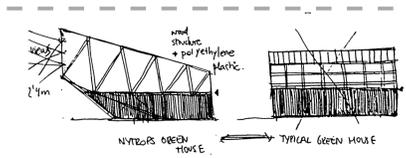
Orientation south-east- to get the first rays of sunlight. The bees are gonna leave early morning and the wind will help them to come back



Apiary area

## GREENHOUSE REQUIREMENTS

- Flexible structure, able to open and close it easily
- Some installation providing water for the plants. Fire-hose for outside
- Worktables, empty ones and another with "boxes"
- Cubboards to keep seeds for a year later



Greenhouses area



## VOCABULARY

- Apiary**, place where you keep bees, especially a collection of hives kept to provide honey
- Beekeeper**, person who keeps bees in order to produce honey
- Hive**, a structure where bees live, especially a beehive (= container like a box)
- Bee Colony**, a group of bees of the same type that live together, with 1 queen.
- Pollination**, process where the bees give a flower or plant pollen so that it can produce seeds:

## PROJECT STRATEGIES

### BEE LIFESTYLE

#### IDEA

The bees take an important role in the project. They will get the nectar of the flower of the plants; the flower gets pollinated, and reproduction begins. From them we can extract Honey but also bees-wax, royal jelly, propolis and pollen.

#### HIVE

So many kinds of hives and differences. The project is designed by the rational hive with mobil layers called Layens Hive.

#### PLACE

The hives has to be projected having in consideration a lot of parameters; not wind, southern face, accessible...

#### MAINTENANCE

We will need a bee expert once a week to go to the place and confirm there's nothing wrong. In the summer 10 beekeepers will go to take the honey on 21th june -summer solstice-

#### RISKS

There are a lot of prejudices about the danger of bees, but it doesn't exist. The references are examples that show how an apiary can work in the middle of a city

## PRIVATE NATURAL PHARMACY

#### IDEA

The project believe in the ancients habits to get medicines in the most natural way. Till now very family will have their natural pharmacy at home. Minimum use of fertilizers and syntetic pesticides.

#### MEDICINAL PLANTS

These plants have diverse curative effects.

#### CULINARY HERBS

Species for the daily use at the kitchen.

#### PROCESS LAND-KICHEN

You can prepare oils, tees, drinks, species...by yourself. The plants doesn't need complex process after cultivation, or you use them fresh or dry.

## WOODEN HOUSES

#### IDEA

These plants are really strong and they survive outside during the winter, we just need a greenhouse for the cultive and preparation. Then will be moved outside. It will be like a workplace. The greenhouse will be shared by 10 families from the neighborhood.

#### GREENHOUSE EFFECT

The greenhouse effect will help plants to grow because of its gradual warming of the air inside the house.

#### DOBLE FUNCTION

In one hand will be the greenhouse to cultivate the plants and keep material for the plants, and in another hand, will be also used as a little cottage to rest and to have views to the nature.

#### PLACE

The houses are settle in a line through the north area of the field to keep the southern sun and be protected from the wind by the buildings.

#### STRUCTURE

Light structure made by wood and covered by polyethylene plastic.

## apiary REFERENCES



Eriksen+skajaa, OSLO . Palynopolis  
The project was awarded for the Oslo Triennale

"The bee hotel" can be found in Place des Jardins in Paris

"The bee hotel" can be found in some parks in London: Bunhill Fields, West Smithfield, Postman's Park, St Dunstan's in the East and Cleary Garden