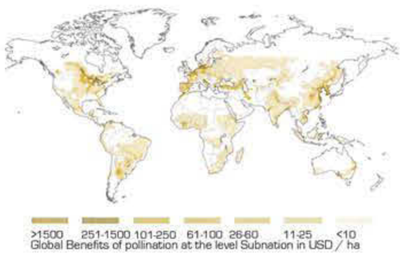
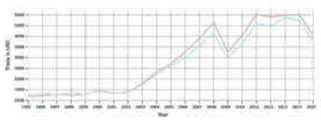
BEE CITY

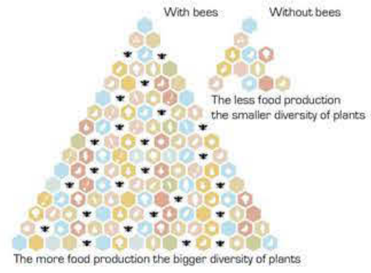


Step 1. Bees in the world
Bees have a great importance at world level, both for their pollinating work and for the various products that are generated thanks to them: wax, honey, royal jelly .... There is currently a global bee deficit which has led to a number of studies on the tithe of its population and its effect on agriculture.

Step 2. Market niche
Bees are a huge market niche due to the great worldwide demand of them. Therefore we propose a generating city of BEES, a "**BEE CITY**" that allows an improvement of the Dutch agriculture in addition to increase the study and manufacturing of the products tha comes naturally from the bee



Step 3. Dutch economy
From 2015 the Netherlands had a negative trade balance of $ 26.1 billion in net imports. Compared to their trade balance in 1995, they had a positive trade balance of $ 8.65 Billion net exports.
With our proposal we expect to reach and improve the conomical level of 1995



Step 4. Dutch economy
The vast majority of plants on Earth require animal-mediated pollination to produce seeds and fruit.
The calculations show that 87.5% of flowering plants are pollinated by animals, having it a total economic benefit of "**265 billion euros in productivity due to pollination**"

Step 5. Dutch exports
The Netherlands is one of the world's largest exporters, beeing agriculture one of the biggest potentials of its economy. Its share of world exports of these products is larger than one would expect given the size of its economy and the size of the global market for these products

B5. The Bee Pharmacy
Due to the healing properties of the bees products, many pharmaceutical companies use bee product in their medicine therefore we propose a building were we could study the implement of the bee in the medicine.

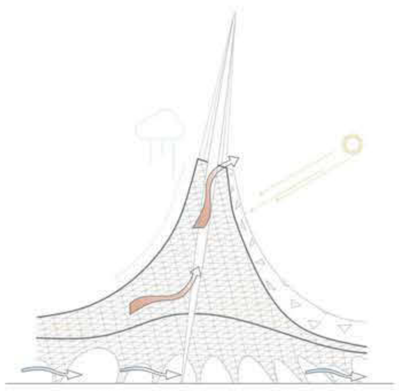
B1. The Factory+housing
The Factory is the place where the all the products that come from the bees are manufacturated.
The upper floor works as a eco-power plant to supply energy the factory.

B2. The Honeycomb
The Honeycomb is a structure that as works as a "house" for the bees to favor their procreation to mantein a rich ecosystem.

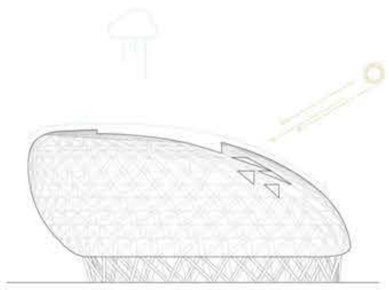
B5. The Laboratory+ housing
To control the quality of the plant species in order to reach a successful pollination and a green equilibrated ecosystem

B3. The Bee Workshop+housing
The Bee Workshop we aim to experiment and show the people the different benefit of the bee products such as the healthy characteristics of the honey and how to use it in your daily live.

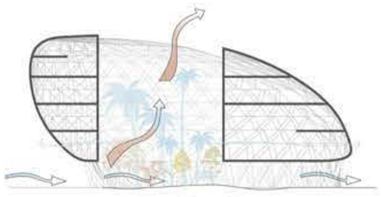
B4. The ECO-housing
Due to the high demands of jobs and the need of housing we propose this building with public uses in the groud floor, between a large garden and the farming/crops areas.



Step 1. Textile installation
The pollinator textile system will contain the bees but also allowing a natural air flow and sun to pass through it.
It will also contain photovoltaic panels to obtain the max. energy possible.



Step 2. I- building
The geometry given to the building will allows not only obtain energy throught its facade with photovoltaic panels but also obtein all the water from the abundant rain in The Netherland



Step 3. patio
Patios allows natural air flow in the building favoring a inner eco-clima during the whole year.
The building is lifted up to sepate it from the floor to get shadow during the summer and fresh air getting in the building.

Step 4. Wind
The aerodynamic geometry of the building, makes it not an obstacle to the wind, dissipating the load on the facade.

Step 4. Trees & bees
Flowers are planted which attract bees and the proposed trees contain the max. contamination causing a higher level of oxygen

BEE CITY

B1. The Factory+housing

P1. The Green Topography

P8. The Study garden

P2. The Bee garden

B5. The Bee Pharmacy

B2. The Honeycomb

P6. The Community garden

P3. The Market

P4. The Playground

B3. The Bee Workshop+housing

B5. The Laboratory+ housing

P5. The Eco crops

B4. The ECO-housing

P7. The Couples garden

P6. The aromatic garden

scale 1:500 N

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BEE CITY

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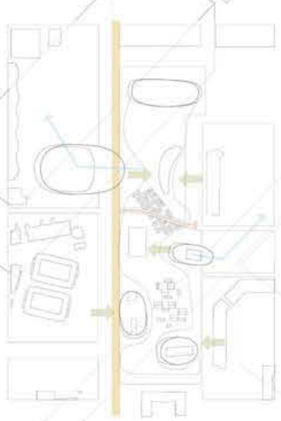
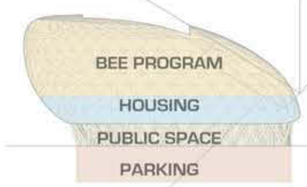


S1. Productive city Scheme

The program gives a solution to an urban level interralationating the original hatch with the new proposal.

For that, part of the program stay outside the actuation area, enhancing the whole between other areas by improving the circulation with the creation of a new road in the street Karspeldreef leaving the study area free or cars.

Using the existign ghatch we propose a new market for the BEE city close by the crops.
All this proposal is grouped under a mesh pollinator system, which separates the bee population from the peoples



S2. Programmatic Scheme

All the building are multi programmatic.
They always contains a program related with the bee products, housing for those workers, a public/commercial space and a private parking for them.
Therefore all the housing has always a direct conection to their inner patio, creating differents relationship and reaching a full live ambient during the whole day.

scale 1:500

S3. The Bee City

In Bee city, architecture, bees, society and economy are interrelated to give an answer to a global problem from a local scale, through a multitude of equipment for this purpose: housing, pharmaceutical industry, processing factory, beehives Population, ecological orchards, gardens ...

In this productive city based on the planting of diverse typologies of trees that favor the pollination of the bees. The textile mesh that covers the whole is the pollinator system through which the bees interact naturally with the environment.