

U2 Randstad National Park

Why National Park in Randstad?

Enough Green for Randstad?

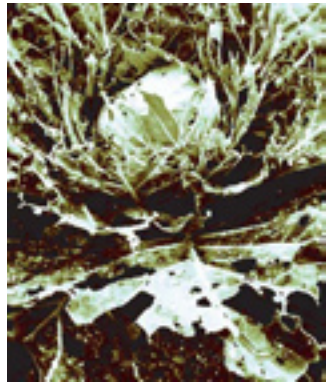
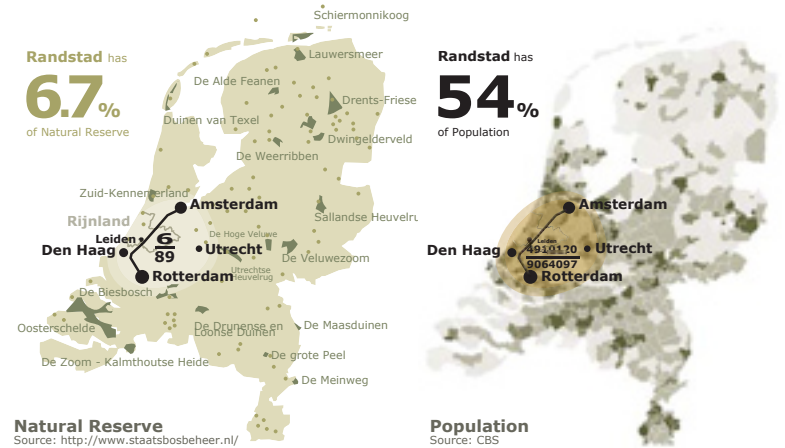
Though the green Heart is surely big and it locates in the middle of Randstad, do we have enough green space for the inhabitants of Randstad? or the green spaces have high quality?

If we consider only the important natural reserves in the Netherlands, there are 89 of them in the nation, and within Randstad there are 6 of them (10 in easy reach from Randstad). It is only 6.7 % and the population is more than 50%. Even if we consider the main 5 cities of Randstad except Utrecht, in other words big cities within North Wing and South Wing, the % of population is 54% of the nation.

6.7 % of natural reserve for 54% of people. Obviously there is a big unbalance between the quality of green and urbanization. What we need within Randstad is not only huge empty green space; green heart, but also qualitative nature area, and the new national park in Rijnland region can be really helpful to improve the existing condition.

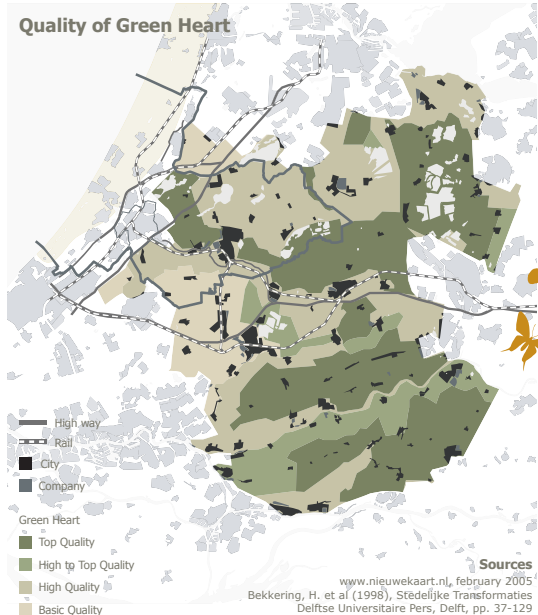
Randstad

Natural Reserve/Population



Green Heart???

Randstad has the huge green polder area in the middle of big cities and the area is usually called Green Heart. However, As this map shows, we have to admit Green Heart is not really green any more. It is filled by many infrastructure and small development and it looks as if a leaf eaten by green caterpillars. However there Valuable green areas are still left in the middle of Randstad and we should preserve the historical landscape of the Netherlands. It was surely created by the great works of Dutch people and the value of it is not only about the naturalness



Crossing Point of Green and Red

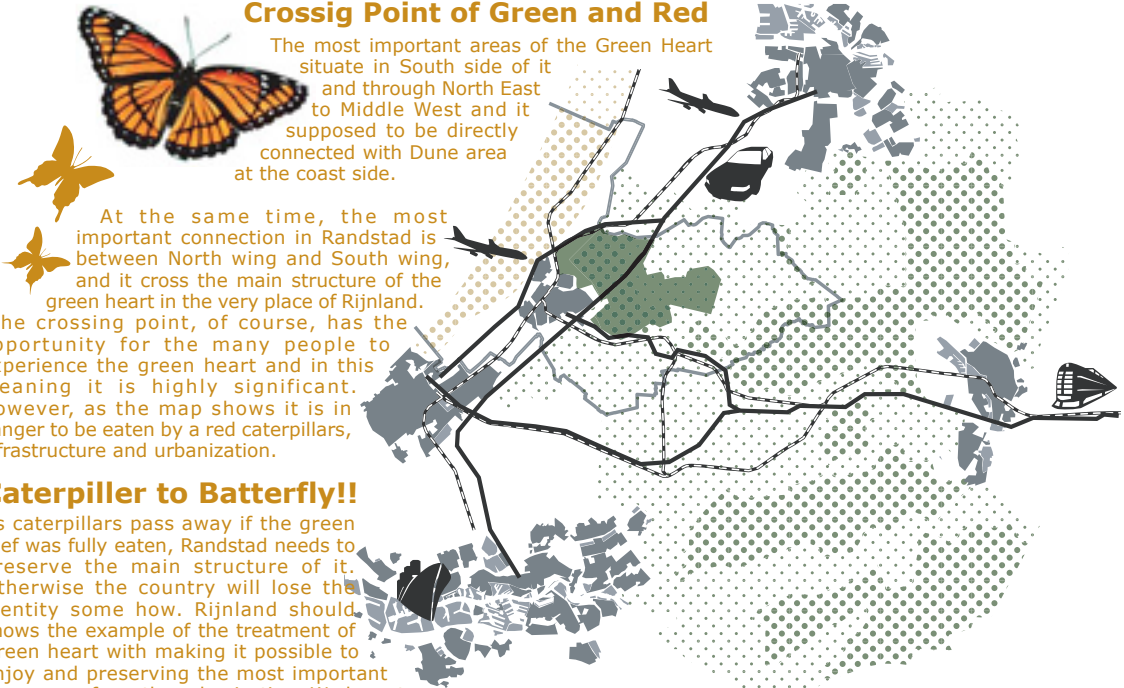
The most important areas of the Green Heart situate in South side of it and through North East to Middle West and it supposed to be directly connected with Dune area at the coast side.

At the same time, the most important connection in Randstad is between North wing and South wing, and it cross the main structure of the green heart in the very place of Rijnland.

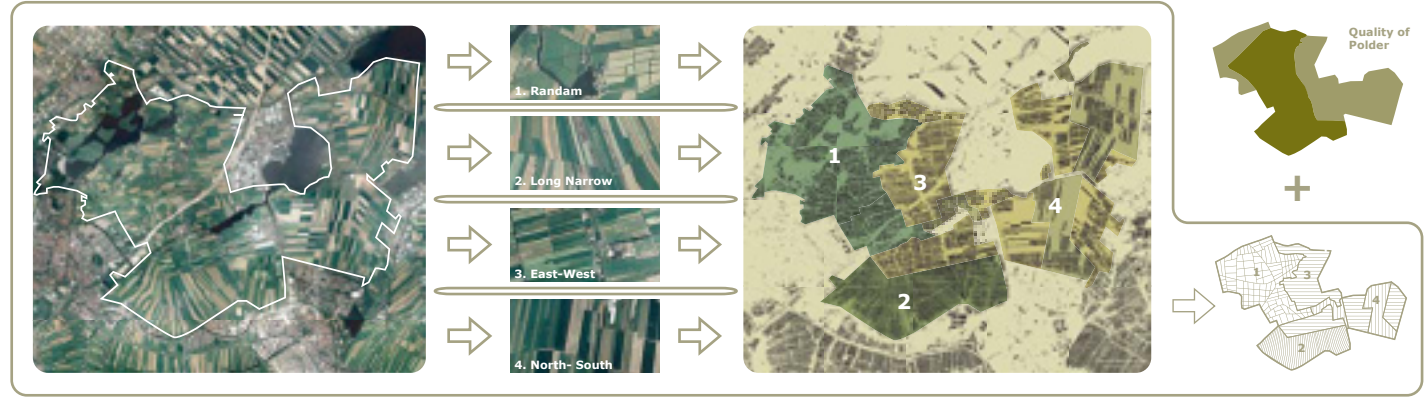
The crossing point, of course, has the opportunity for the many people to experience the green heart and in this meaning it is highly significant. However, as the map shows it is in danger to be eaten by a red caterpillars, infrastructure and urbanization.

Caterpillar to Butterfly!!

As caterpillars pass away if the green reef was fully eaten, Randstad needs to preserve the main structure of it. Otherwise the country will lose the identity some how. Rijnland should shows the example of the treatment of Green heart with making it possible to enjoy and preserving the most important green area from the urbanization. We have to grow up as the green caterpillar flies up to the sky and becomes the butterfly.



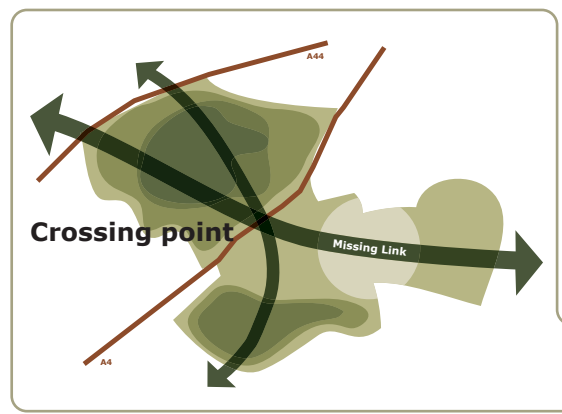
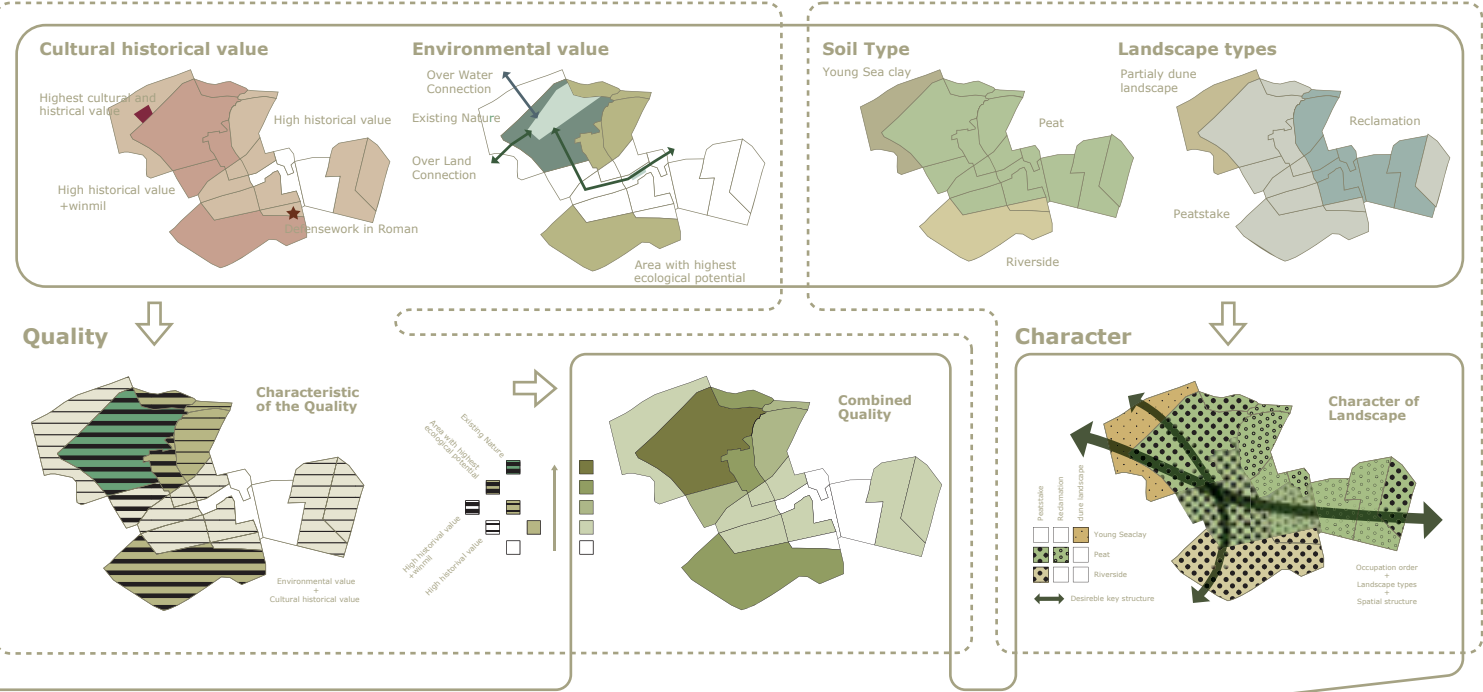
Patern of Polder Structure



Distingwish the charactors




How to divede?
What's the characters



Quality and Potential

Transportation of Randstad national park


River Bus Line



There are enough water-linns in the national park and river bus can be one of the main activity and transport of the national park. (Only one addition is needed, however a few meters widening is needed)

This system is well connected to the old city centre of Leiden and new A4 junction and near from the railway station, therefore as a whole network the river bus can work sufficiently.


Public Transport



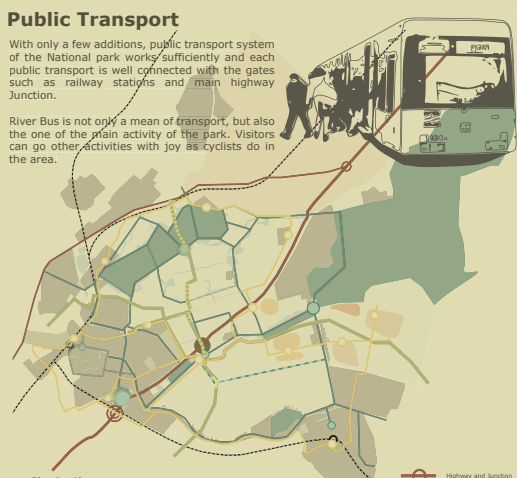
With only a few additions, public transport system of the National park works sufficiently and each public transport is well connected with the gates such as railway stations and main highway junction.

River Bus is not only a mean of transport, but also the one of the main activity of the park. Visitors can go other activities with joy as cyclists do in the area.

Bus Line



Bus line support other means of transport and create good connection for the visitor of the park and inhabitants.



River bus Line
 Existing water line
 New Line
 Main River Bus Station


Bus Line
 Bus Line
 Bus stop

Train
 Railway and station

Main Bicycle Road
 Widen Existing
 New

Highway and Junction

Bicycle Road



Regends

Green Structure
 Main Structure

Main Bicycle Road
 Widen Existing
 New

Normal Bicycle Road
 Existing
 New part


Checkpoint
 Winmill Checkpoint
 Entrance Information Centre
 Main Information Centre and Landscape Museum

Infrastructure
 Highway and Junction
 HSL

Cycling is one of the main transport and activity of the park together with water transport.


The structure of it follow the key structure of the green and cyclists can enjoy the changing of landscape unit through the area and the windmill along the roads will be used for the checkpoints of the park and work as branches of landscape museum. Regarding to the car toads structure the central area has the highest accessibility and the main information centre and Landscape museum should locate at the crossing point of two bicycle loads (also key structure of the green). However HSL and A4 are the big barrier for the green structure and access through the area. Therefore the museum should also work as the big bridge for all mean of transport and it will be the symbol of the national park.

Main Car road structure and Car Entrance



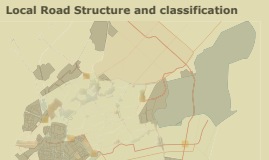
The Park is enough accessible from outside and 5 main car entrances are selected. The central area along Highway A4 is the most accessible than other areas and suits for the location of Central Information Centre and Museum. However to create more better accessibility, an insertion of major road is suggested and there is no difficulty for the construction.

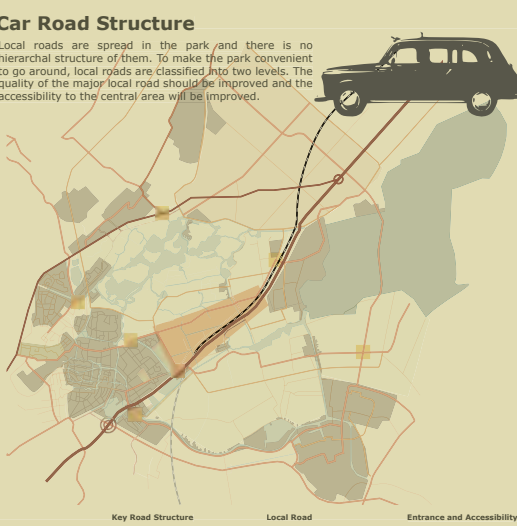
Car Road Structure



Local roads are spread in the park and there is no hierarchal structure of them. To make the park convenient to go around, local roads are classified into two levels. The quality of the major local road should be improved and the accessibility to the central area will be improved.

Local Road Structure and classification

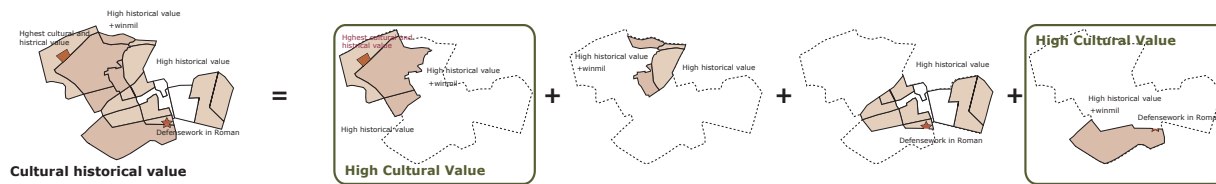
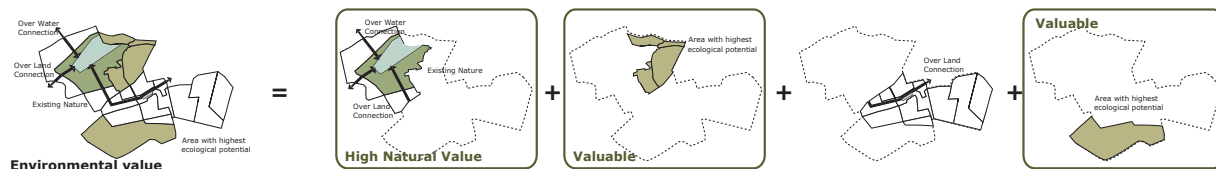
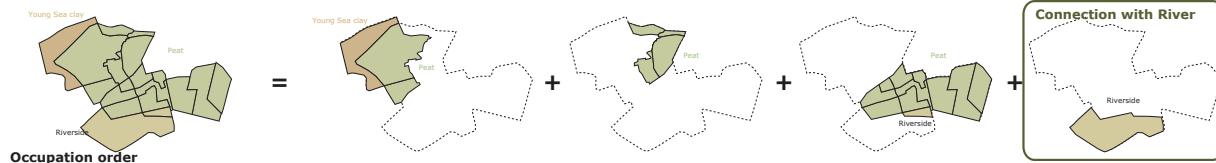
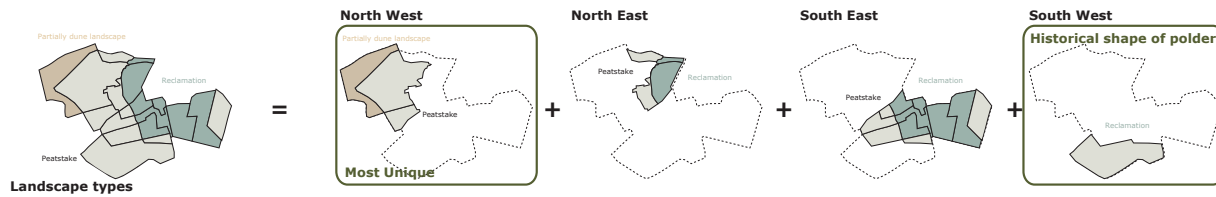




Key Road Structure
 Highway and Junction
 Major Road
 New Major Road

Local Road
 Important Road
 More local road

Entrance and Accessibility
 Main car Entrance
 Most convenient car access area



Eco Structure

Main landscapel Structure

Water

Zone

North West Area: water leisure

Leisure Facilities

South West Area: High Quality polderlandscape with pedestrian path

Flatness Path

Infrastructure

Bicycle Road

River Bus

Highway

Importand Roads

Railway

North East Area: Farm Park and small housing development

Farm Park

Central Area: Landscape Museum and central Park

landscape Museum

Central Park

South East Area: Sports activity and Intensive Agriculture

Water Sports

Intensive Agriculture

Sports Field

Check Point

Main Entrances Information

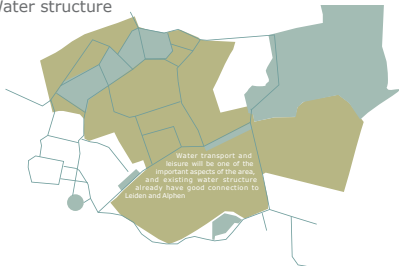
Windmill checkpoint

Polder painting point

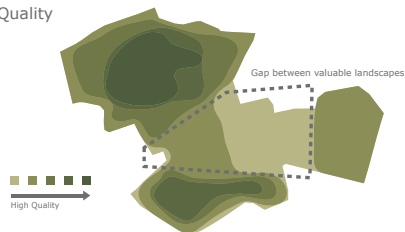
Structure of the National Park

As a whole, the national park create the structure like this map. The project reinforce the quality of the nature and make the green and blue more useful. Landscape and Infrascapce of this projet can be an example for the future development of Green Heart and also Randstad itself.

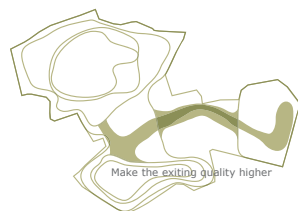
Water structure



Quality



Other projects and Landscape unit



New Green structure

Existing green structure has several gaps between valuable green areas and the new green structure is needed. Based on existing Water structure, green quality and landscape units, the new structure is defined and the quality of several area have to be improved more.

Some areas which still has less quality will be used for

Agriculture park

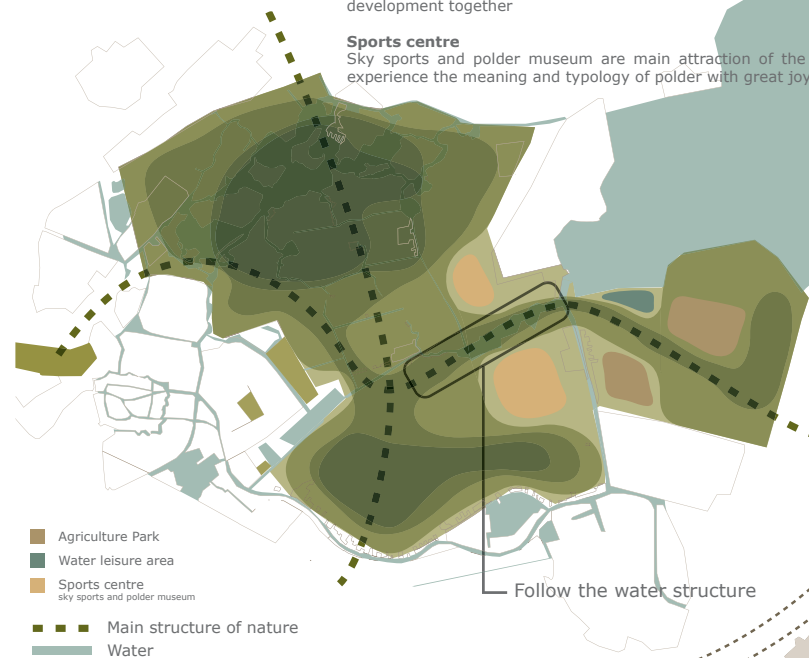
Reorganize the existing agriculture field and make it as intense agriculture park with small shops

Water leisure area

Related with the new great lake project and create water sports related areas and several housing development together

Sports centre

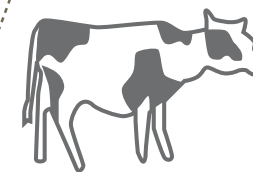
Sky sports and polder museum are main attraction of the centre and people can enjoy and experience the meaning and typology of polder with great joy.



Ecological Structure

+

Restriction System for the future development



Type of boundary and restriction

Based on the red contour and the situation of the surroundings, the borderlines can be defined into 5 groups.

City edge and Preservation edge

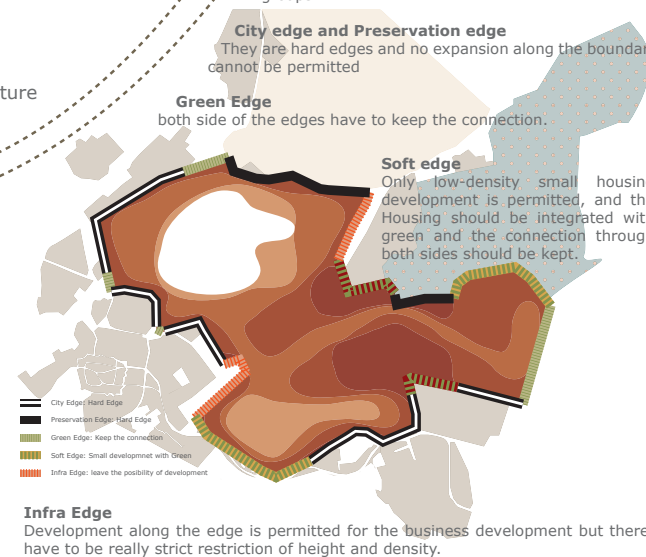
They are hard edges and no expansion along the boundary cannot be permitted

Green Edge

both side of the edges have to keep the connection.

Soft edge

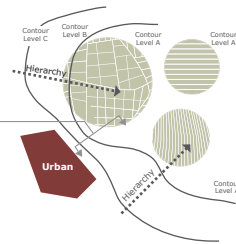
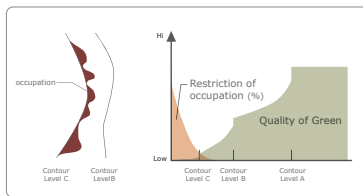
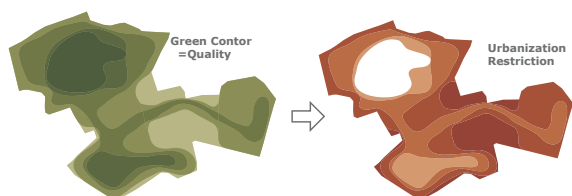
Only low-density small housing development is permitted, and the Housing should be integrated with green and the connection through both sides should be kept.



Restriction regarding Green contour and Hierarchical structure

Quality map can be used directly as the green contour of the national park (Red contour shows the possibility of future urbanization) and future development beside the border of the national park have to have the restriction based on it.

Depend on the quality and distance from certain levels of natural quality will be used for the height and % of occupation.



North-West Area

North-West NW1 NW2 NW3

Landscape types

Most Unique

Occupation order

Spatial structure

Bio connection

Environmental value

High Value

Cultural historical value

High Value

The most important area is NW2, and the landscape of the area is quite unique not only comparing with other area in the Park but also other areas in Green Heart. The area's main activity will be water sports and leisure and existing facilities and activity has to be reinforced (including widening of the beech area)

NW1 has less quality than other areas, but the area is good better for the construction. The area will mainly serve for the NW2 and Some accommodation and restaurant should be inserted more.

NW3 locates in the middle of the park and most accessible from outside. The area will be the central area of the park and will have central park and Landscape museum which has also the role of information center. Also the museum works as the bridge over the A4 and HSL. Main landscape structure cross exactly there and all means of transport go through the park and the museum represent not only the landscape of nature but also the infralandscape.

4 Zones, 4 Identities and 4 main Activities

North-East Area

North-East NE1 NE2,3 NE4

Landscape types

Occupation order

Spatial structure

Environmental value

Valuable

Cultural historical value

The area is less qualitative compare with the lake district, however the quality of the area is still quite high in whole area.

At the same time, the area face to the N44 and there are already several housing development integrated with green and water, To preserve the area several green connection under the Highway and HSL are needed and same time there are more possibility for the housing development along Highway. The amount of housing should be small and these housing should be highly integrated with nature. Together with this small project and to provide, small polder park with some facilities can be made mainly for children.

Also existing farm houses can be used for the farm experience facilities, in which farmer can sell fresh products directly, and these small villages should grow together with the national park

This area's project is aimed mainly for the education and rehabilitation of the village. Based on existing old farmhouse, there will be farm Experience Park. Visitors can enjoy the village life, nature and how polder landscape is kept by farmer. And also for the farmers the place can be used for the commercial use.

South West

Landscape types

Historical shape of polder

Occupation order

Connection with River

Spatial structure

Environmental value

Valuable

Cultural historical value

High Cultural Value

The area has quite unique polder structure and it is valuable both historical and ecological meaning. As HSL made a tunnel for the area, the area shouldn't be touched more and have to be preserved as it is. However, in my opinion, the preservation can only work if the people know the existence of the area and can find the value of it.

Make use of the flatness

One of the most unique aspects of Dutch landscape is the wideness, in other words, the flatness. We can find the beauty of it not only from normal height but also from above and from lower level like as same as horizontal line.

In this area, the project is only about the insertion of the pedestrian path and experience through it can widen the idea and the polder-landscape.

Pedestrian path and car road go up and down and visitors can enjoy the variety of view through the road. and the underground part of the pedestrian route can have several room for education of landscape.

South East

South East SE1,2,3,11 SE4,7,8,10 SE5,6,9

Landscape types

Occupation order

Spatial structure

Environmental value

Cultural historical value

Less valuable and easier for construction
Better to chose these areas for the insertion of activity

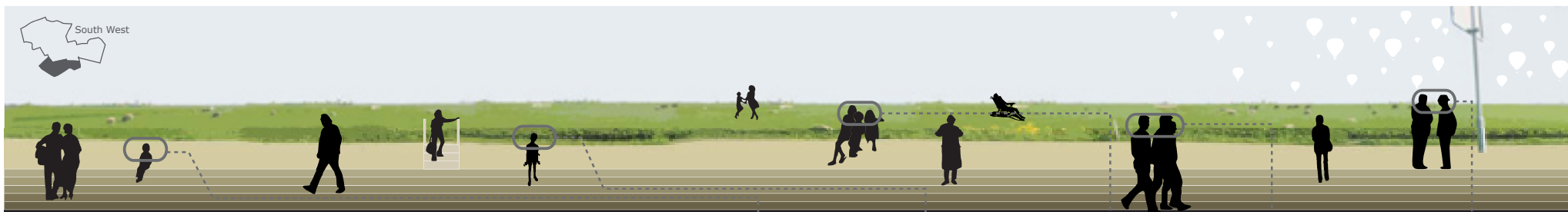
Need of filling gap
Preserve existing condition and make North-south and East-west connection stronger.

Gap between East and West
Suitable for insertion of new activities and make the area more valuable

Infra and biotope
Create some new connection through A4 and HSL both for people and animals

Create Infralandscape both enjoyable for cars and pedestrian cyclist

Reclamation
More opportunity for adding new activities such as sky sports, cow related sports or etc.



Flatness Path in South West Area

The Path has lower level and higher levels and at the cross and doesn't bother car traffic. Not depending on their age height of eye sight, everybody can enjoy the landscape from above and from the same level as polder (Perfect flatness allow people to see the landscape even if we look at it at that level)
 Along the underground path, there are several education room pf polder and it is possible for everybody to get to know more about polder through the experience.

Car traffic can go under the path

How it looks?
 From **above** the ground & From **Horizontal** level

