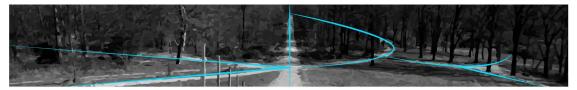
ESTATE SPACE

Exploring the spatial-visual relationships in the estate landscape of Gelders Arcadia









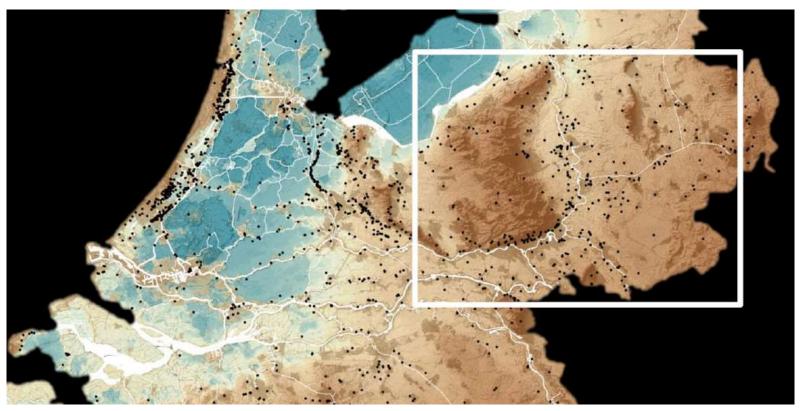
Ming Jiang

LAB Gelderland

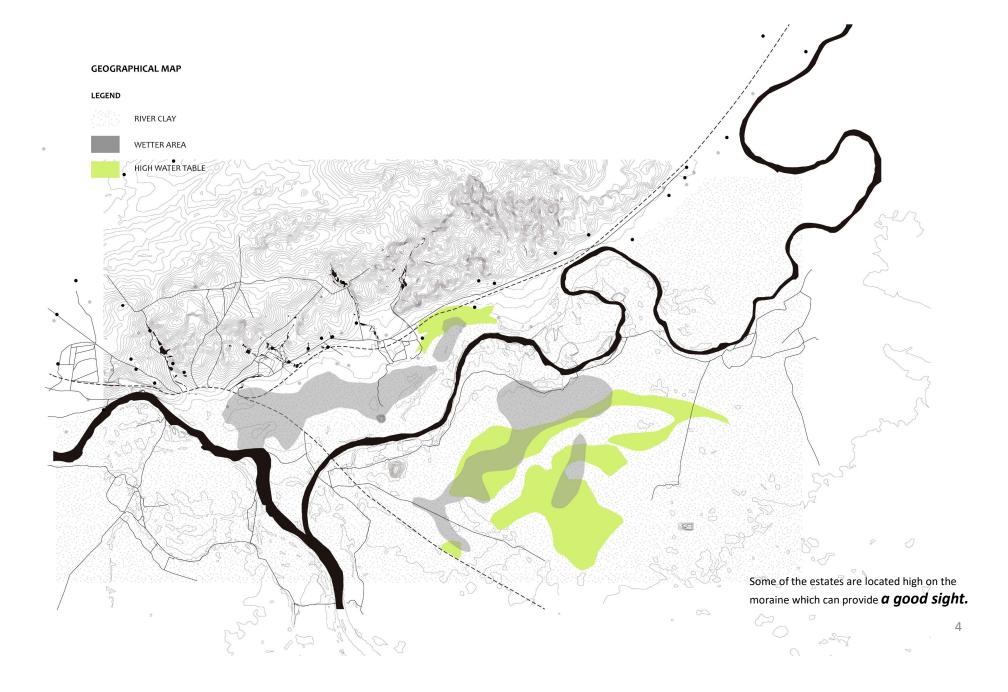
Mentors: Steffen Nijhuis, Leo van den burg

FASCINATION OBJECTIVE&QUESTION ANALYSIS

Distribution of the estates in NL



Source: Steffen Nijhuis

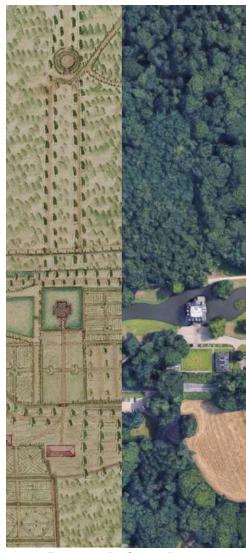




PARK KLARENBEEK-EUSEBIUS CHURCH
<u>Estate-City</u>



ROZENDAAL-KONINGSEWG **Estate-Infrastructure relics**



Zypendaal-De Gulden Bodem **Estates-Estates**

Problem-Visual Obstacles





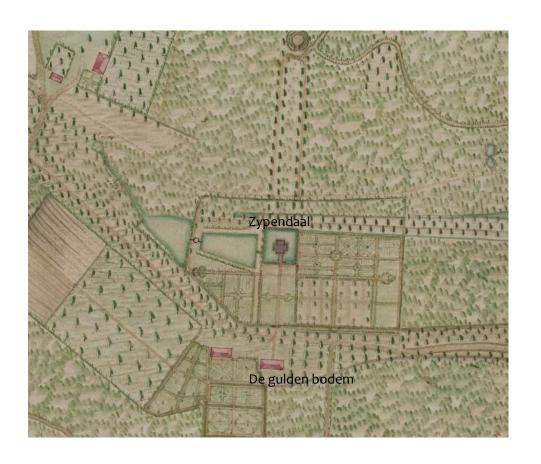






-Not following the guideline of vision -The city are cutting down the visual relation

Internal relation changed-Zypendaal





SUMMARY OF THE PROBLEM

Fast city development made the estates out of touch of this growing, so the obstacles and fragmentation arise, narrowing the visual channel and connection of the estates, also the estate itself

A considerable height difference

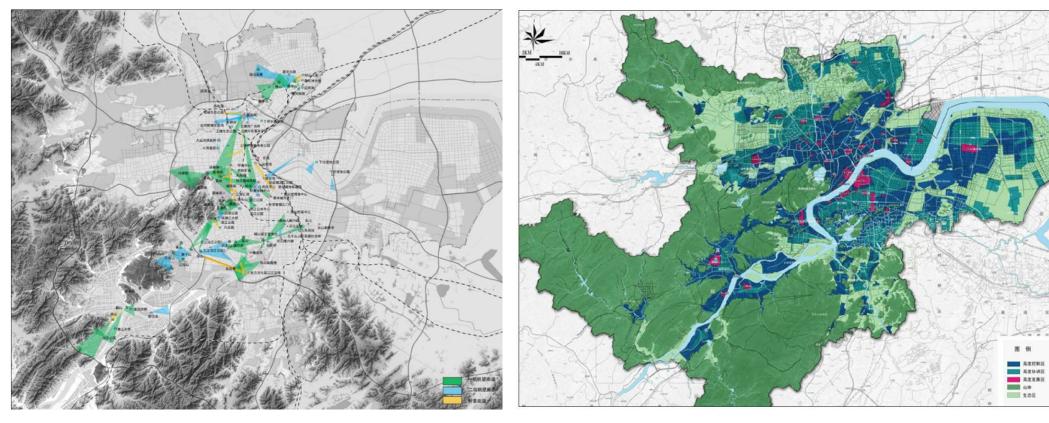
High density of beautiful estates

Various visual factors in different scales

With all the advantages held, Can visual network guide urbanization? Can visual elements make people aware of spatial qualities? Can the connection deal with fragmentation?

DESIGN+PLANNING TOOLS

Visual policy and implementation in Hangzhou, China



Landscape vision system (BI Shuhui, HUANG Wenliu, YANG Yidong,2018)

Height control system (BI Shuhui, HUANG Wenliu, YANG Yidong,2018)

OBJECTIVE&QUESTION ANALYSIS PRINCIPLES ASCINATION

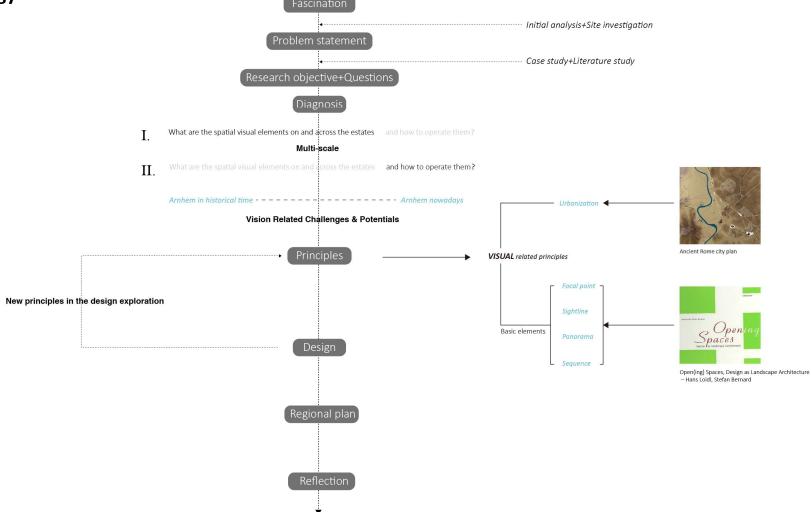
OBJECTIVE

To explore the potential of spatial visual framework for preservation and development of estates landscapes in urban context and to safeguard and develop the spatial visual qualities of the estate themselves

RESEARCH QUESTION

ANALYSIS ————	What are the spatial visual elements on and across the estates, and how to operate them?
TOOLBOX ———	What are the spatial visual principles to organize the spatial development of estates landscape?
DESIGN ————	How to apply this to develop the landscape, to restore historical artifacts, reduce fragmentation and help the development of accessibility?

Methodology



ANALYSIS PR

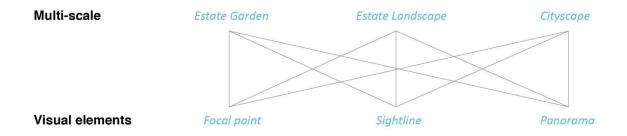
PRINCIPLES

DESIGN EXPLORATION

E&QUESTIO

ANALYSIS FRAMEWORK

What are the spatial visual elements on and across the estates and how to operate them?



II. What are the spatial visual elements on and across the estates and how to operate them?



Vision Related Challenges & Potentials

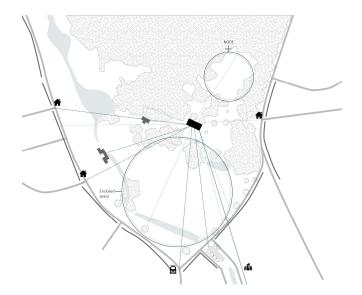


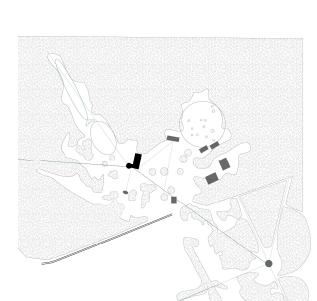






ROZENDAAL

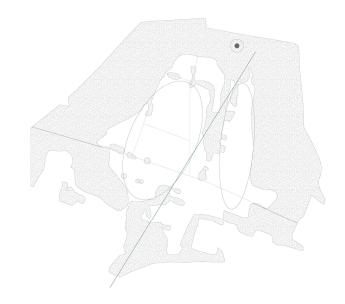










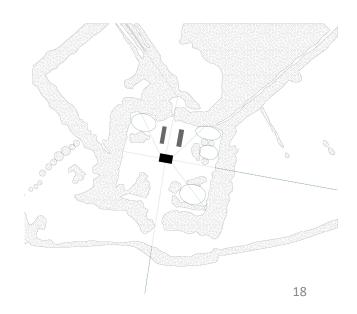






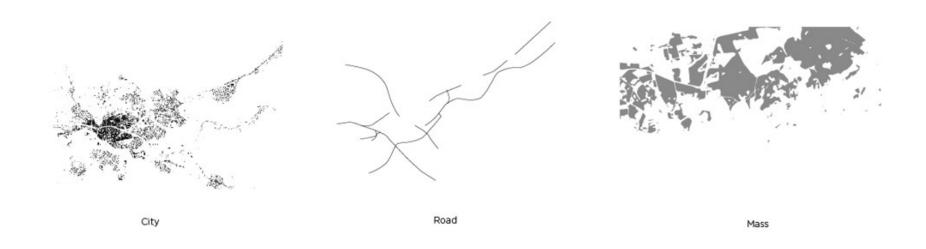


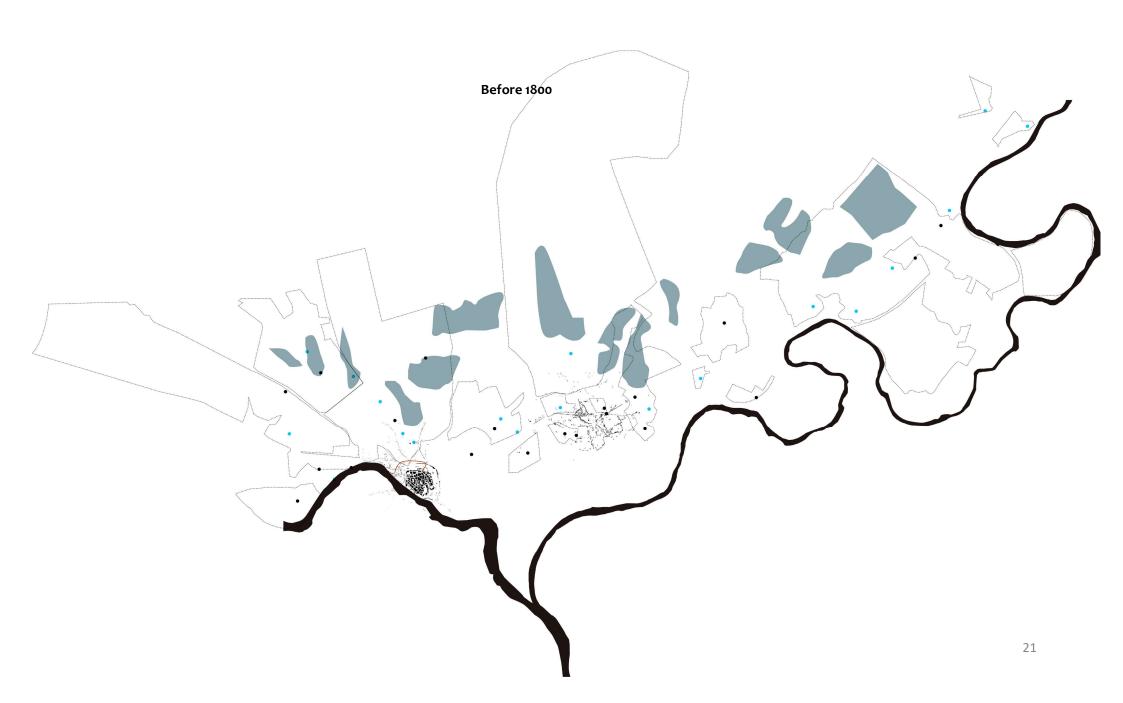




SUMMARY OF THE MUTI-SCALE ANALYSIS

The basic visual elements of focal point, sightline, and panorama are existing in every scale of the estates which contain loads of information and the value of the estates themselves.

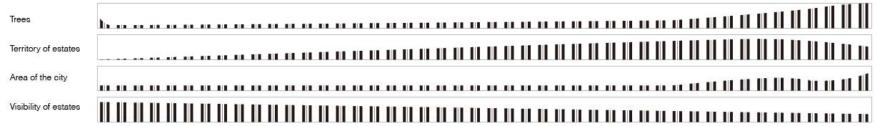


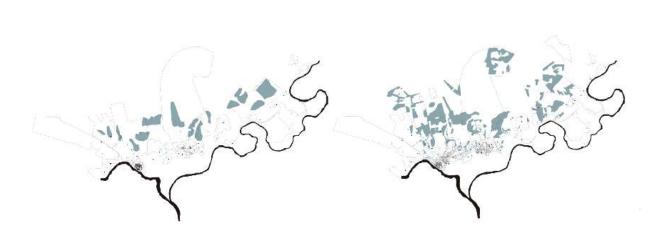


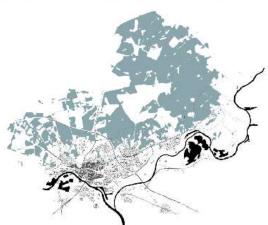




							The second industrial revolution			
						The first industrial	revolution			
		nobilities				Regent families from Arhnem	New elite(bankers&industrialists)			
								World War II		
								Operation market garden		
The vanishing of trees in Veluwe							Reme	ediation for forest		
	1200	1300	1400	1500	1600	1700	1800	1900 1940		







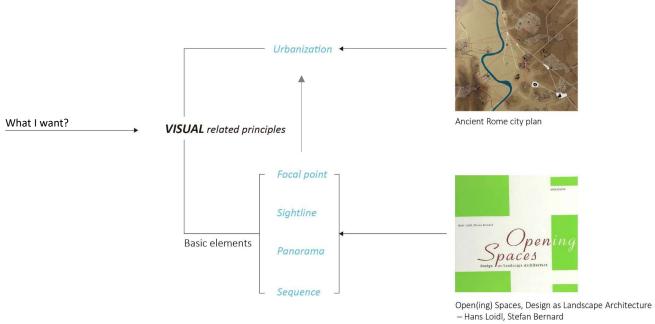
SUMMARY OF THE CHALLENGE

The challenges now are to reconnect the visual relation among estates, make people more aware of the value of the estates to reduce fragmentation and obstacles. The lost visual relations are the potential for this.

So, how to organize the spatial development of estates landscape?

CONCLUSION

DESIGN PRINCIPLES ESIGN EXPLORATION NI AL VOIC

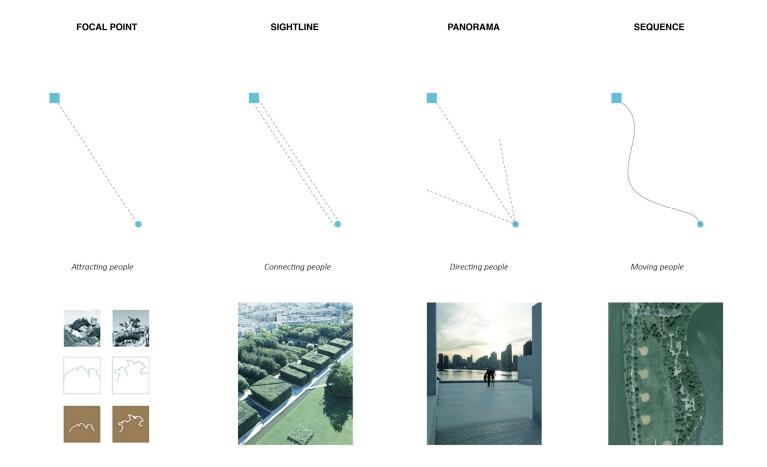


PRINCIPLES

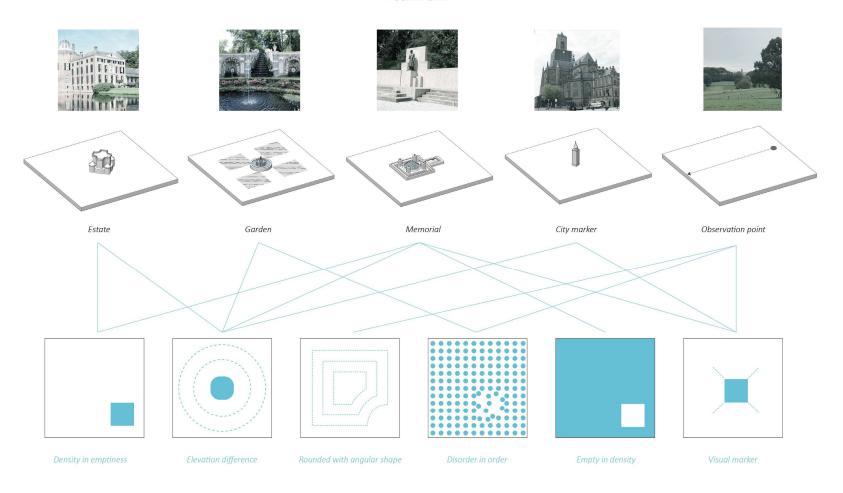
in design.

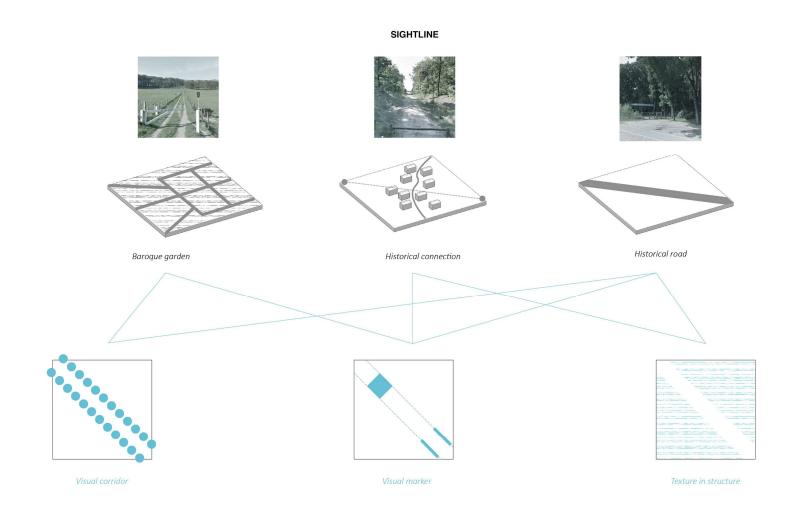
Principles are some general tool boxes that being used to

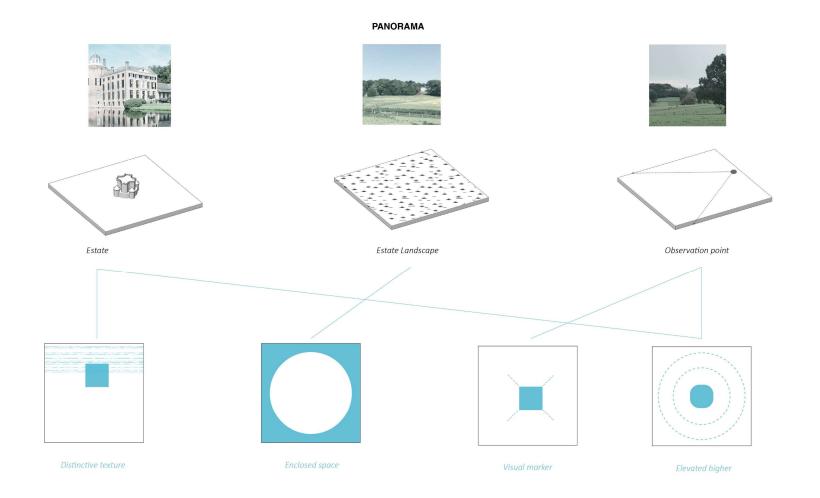
adapt into different situation



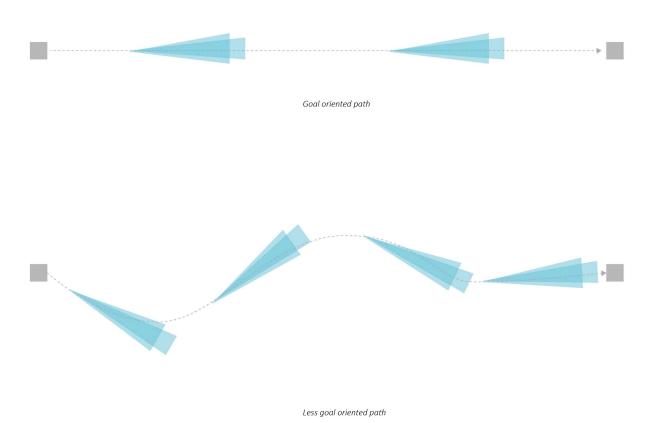
FOCAL POINT



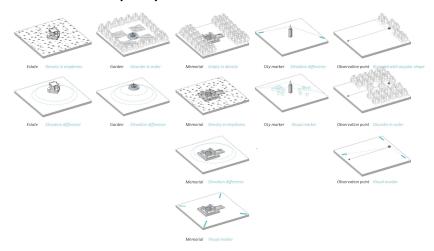




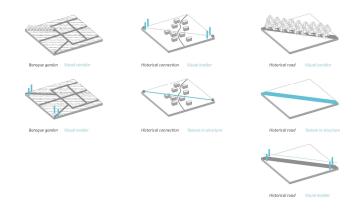
SEQUENCE-SCENE



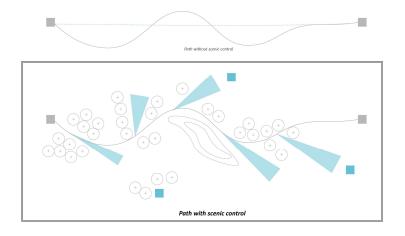
Conclusion for principle







SEQUENCE-SCENIC CONTROL



DESIGN EXPLORATION

CONCLUSON&COMPARISON

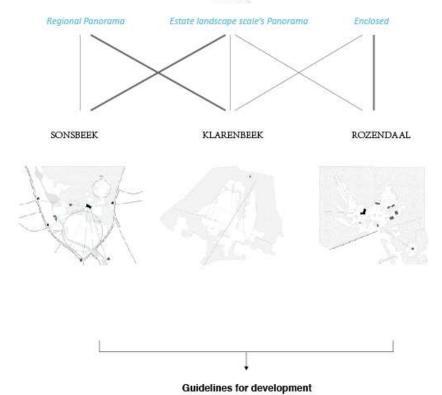
RINCIPLE



TYPOLOGY OF ESTATES IN SPATIAL VISUAL QUALITIES



URBAN









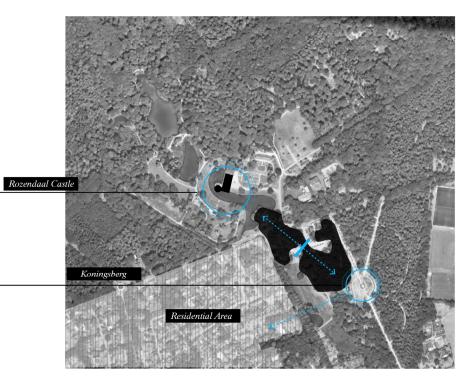




Design Experiment One—Pure Space Koningsberg of Rozendaal

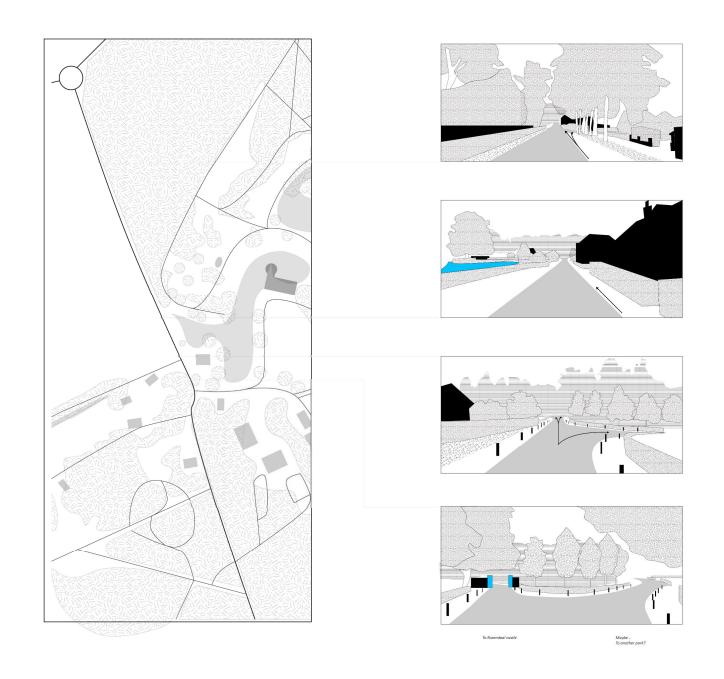






1.The change of spatial visual experience to the estate landscape 2.The future relationship with the neighbor of this region 3.The future recreation composition for visitors

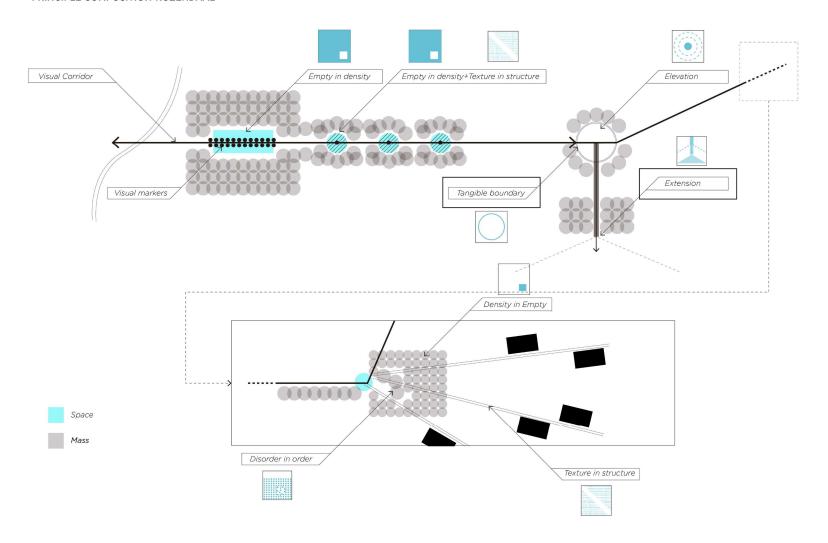
SEQUENCE ANALYSIS







PRINCIPLE COMPOSITION-ROZENDAAL





REGIONAL SPACE CHANGE-BEFORE



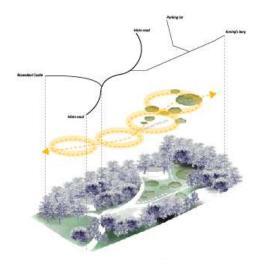
REGIONAL SPACE CHANGE-AFTER



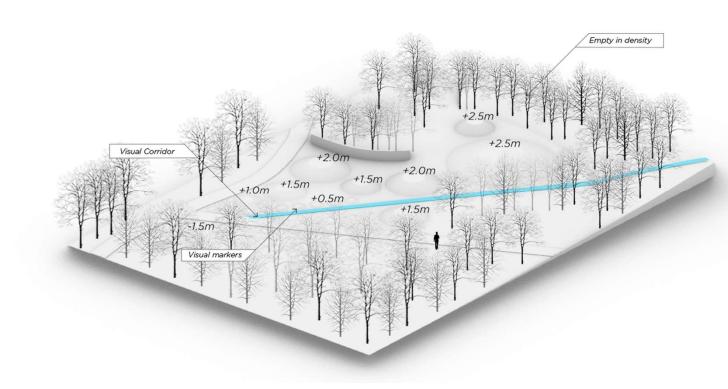




Before



After

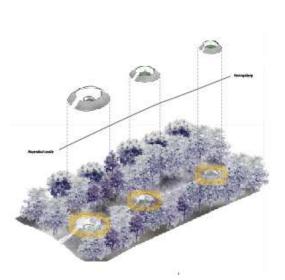


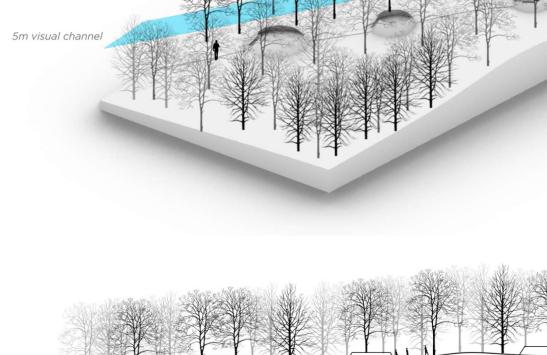






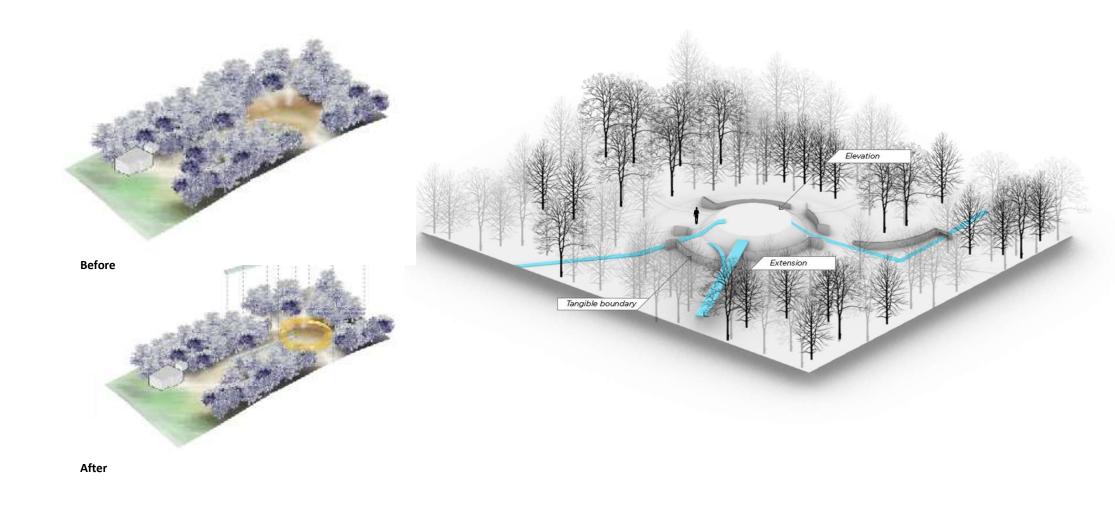






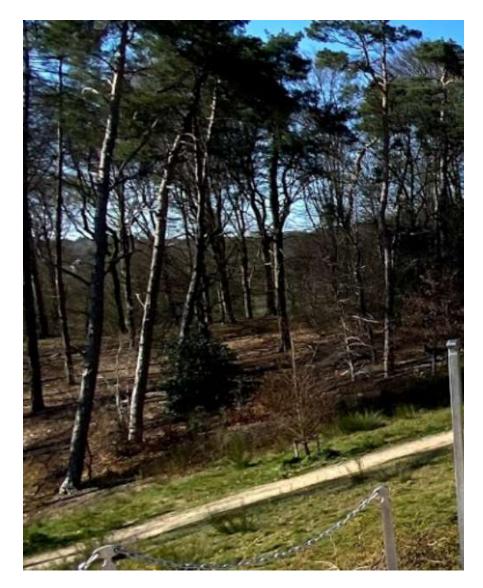
After

Empty in density+Texture in structure





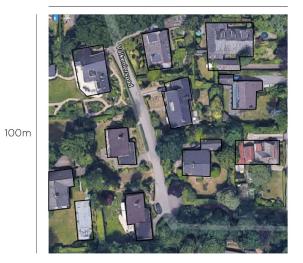








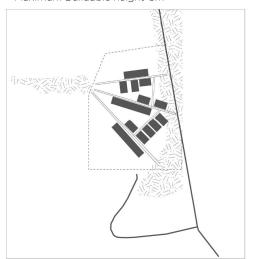
100m



Density of the nearby community Aprox: 25%



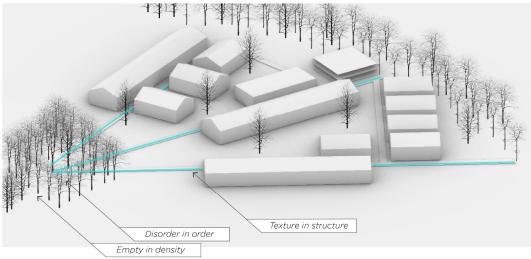
Maximum Buildable height-8m



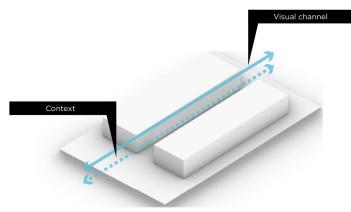
Building Typology



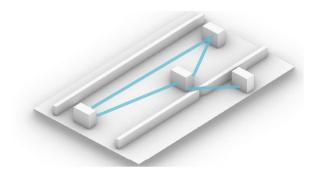
Possible result for the future community



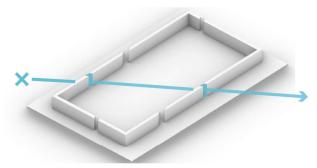
Lessons learned



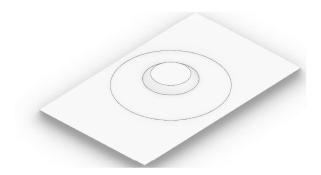
1. Strong background story



3. Balanced internal and external relations



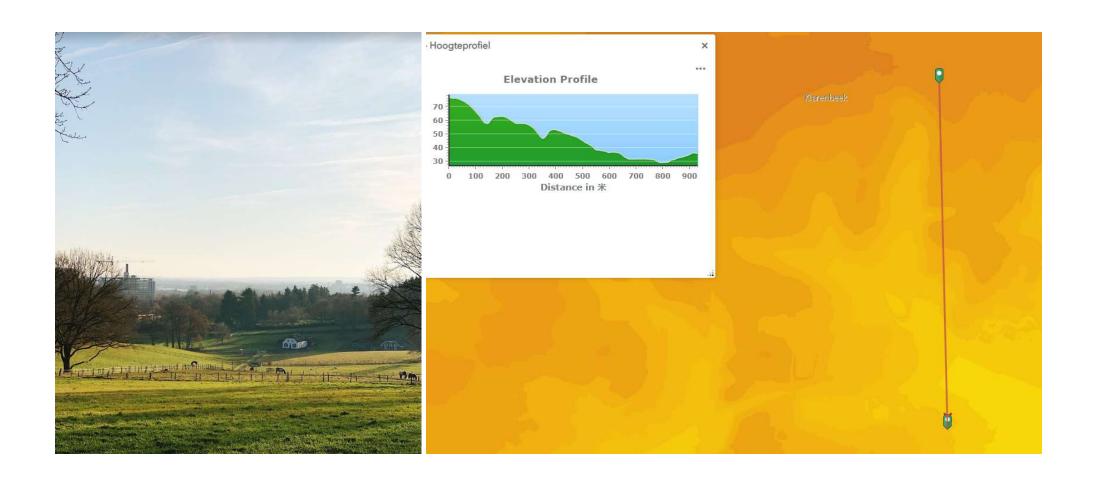
2. Remain the pure space

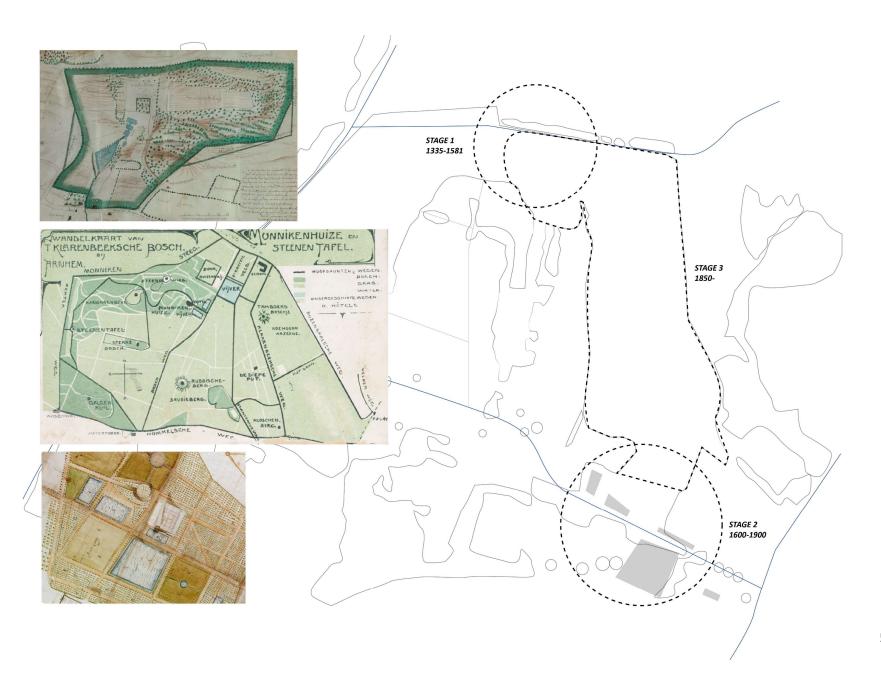


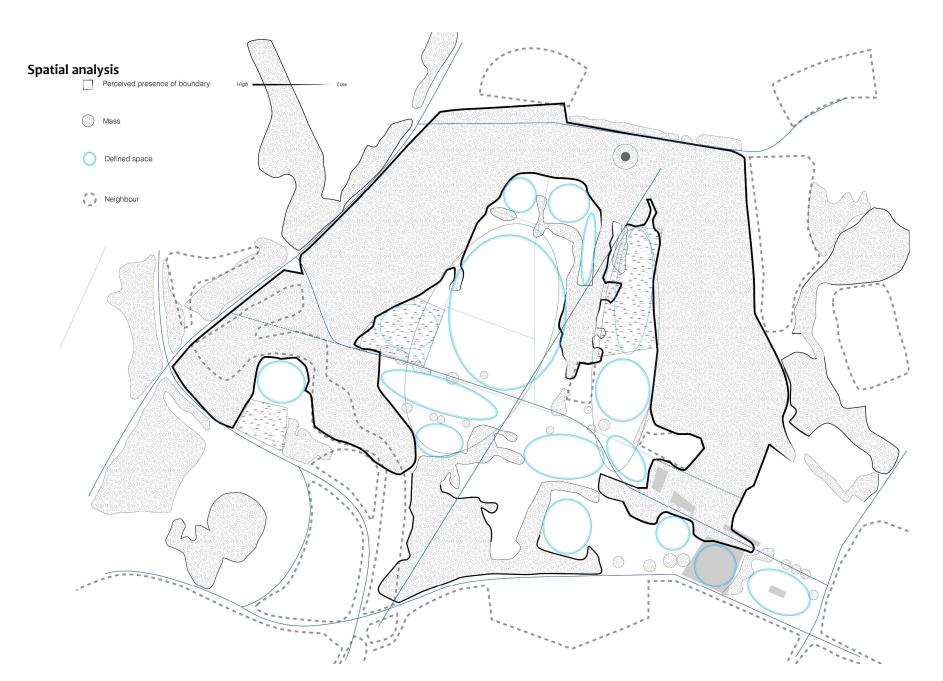
4.Respect the topography



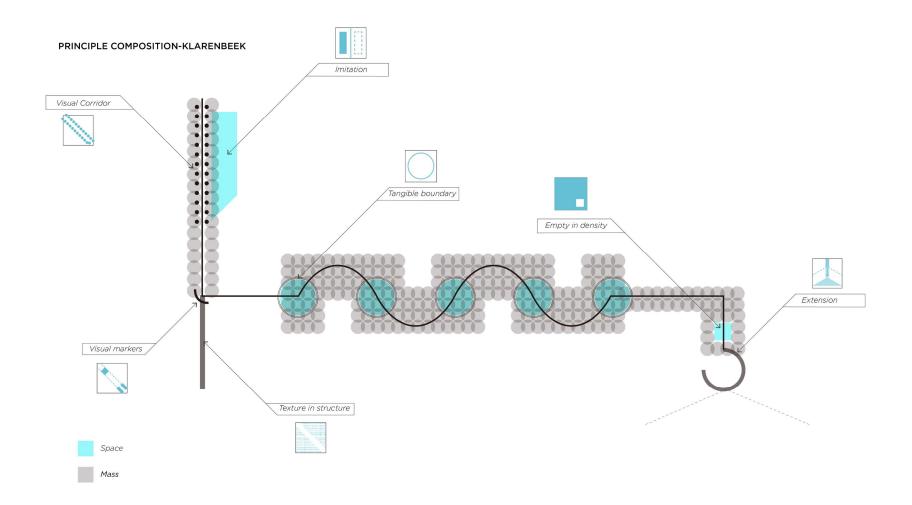
Design Experiment Two—Suggesting Space Klarenbeek

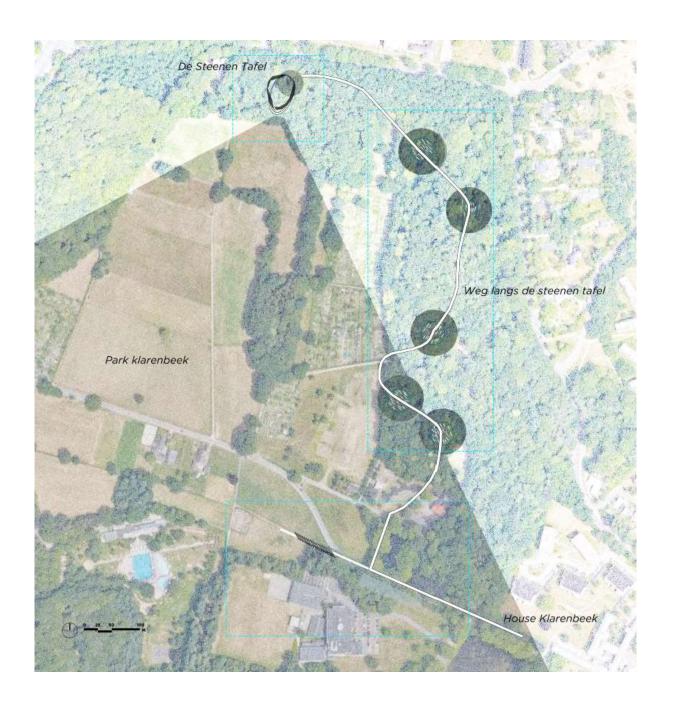






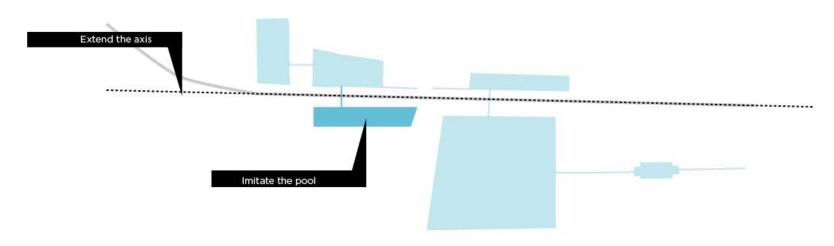


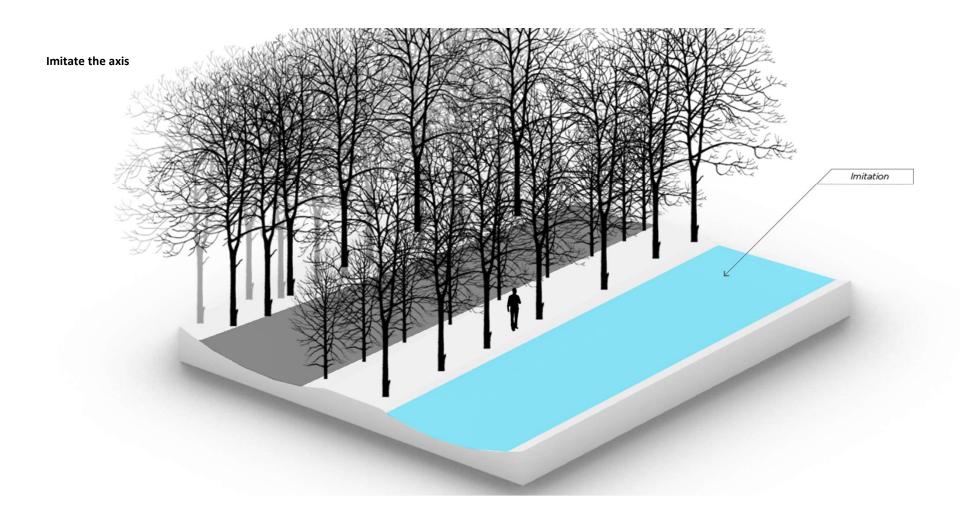




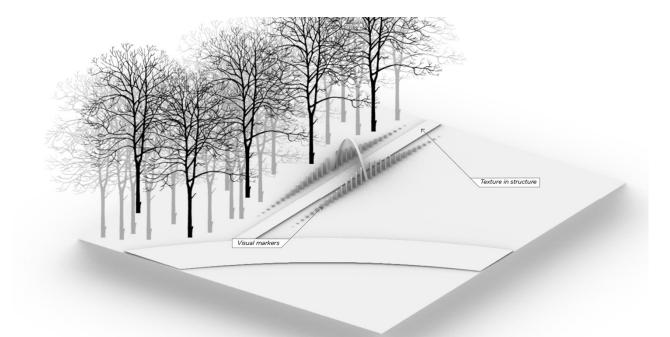
Condition diagram

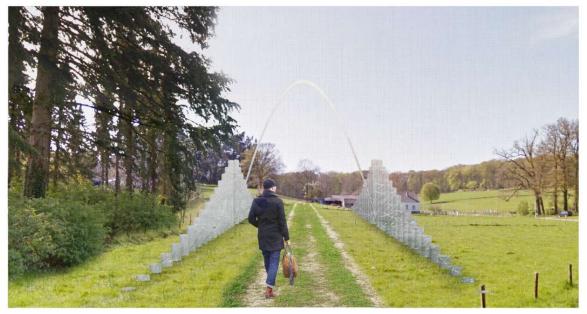




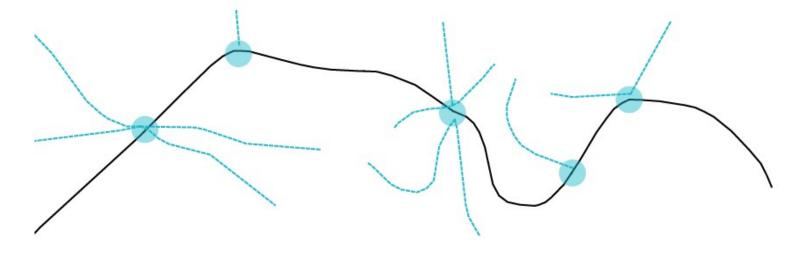


Extend the axis

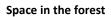


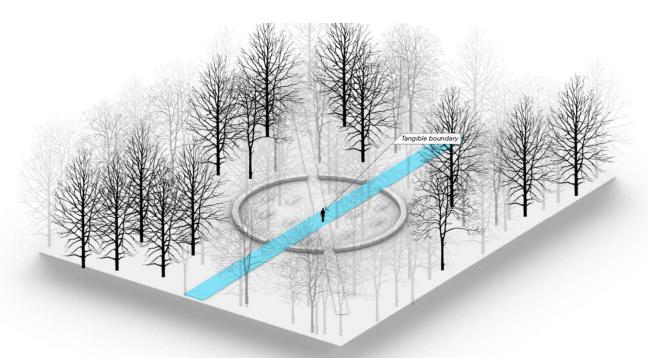


Routine analysis









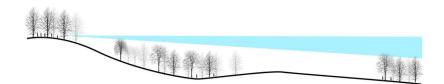




Comparison of De steenen tafel



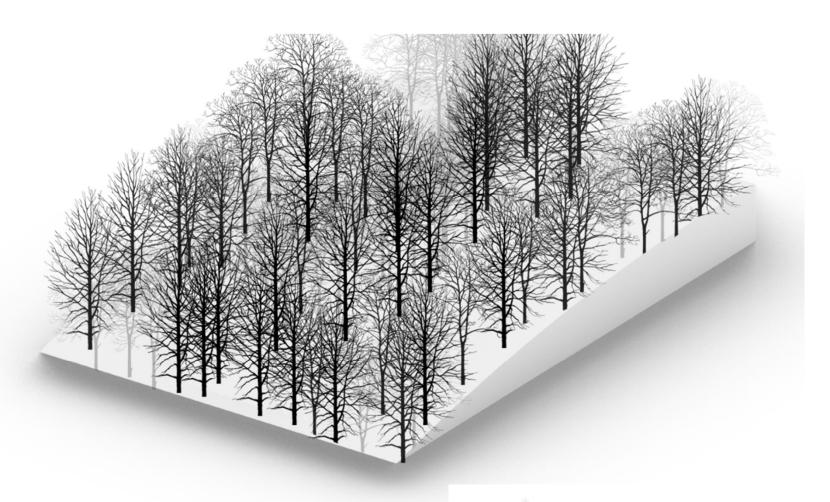
De steenen tafel 1890

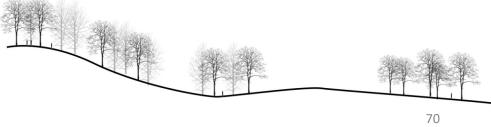


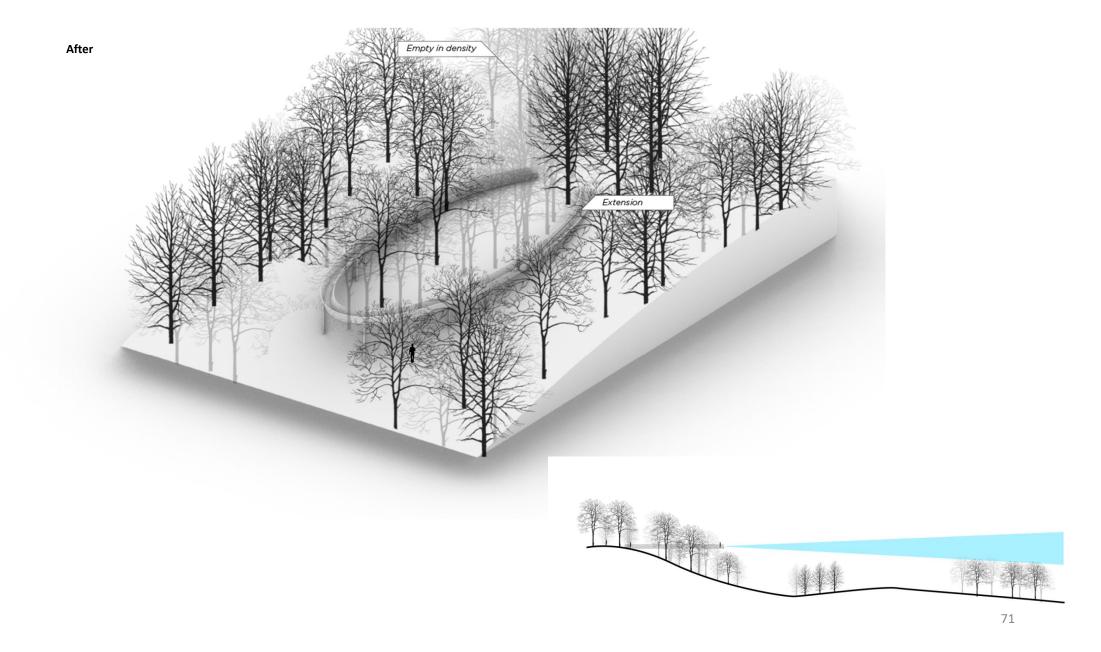


De steenen tafel now



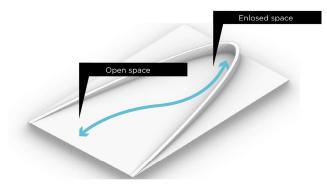








Lessons learned



1. Comprehensive story for various of space



3. Repect the topography



2. Use the best of the current connections



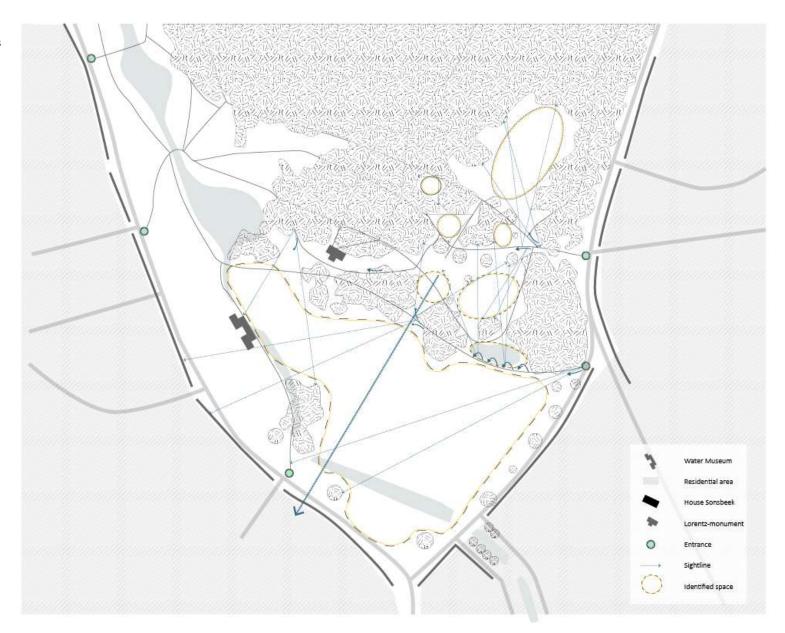
Design Experiment Three——Open Space Sonsbeek



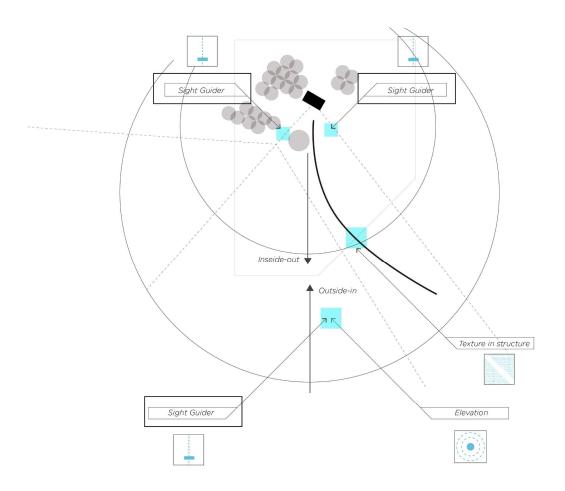


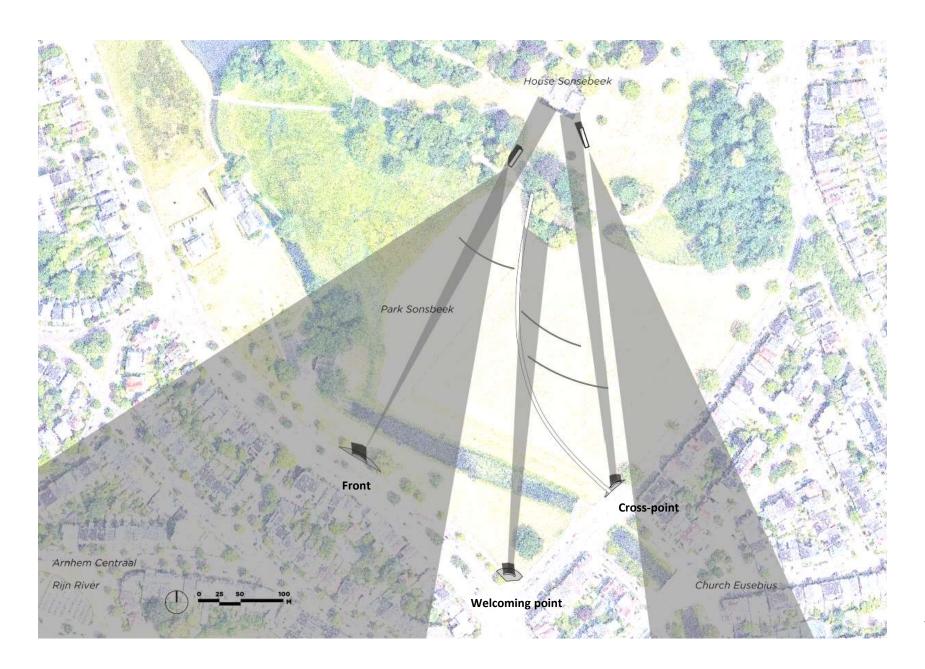


Spatial anaylsis

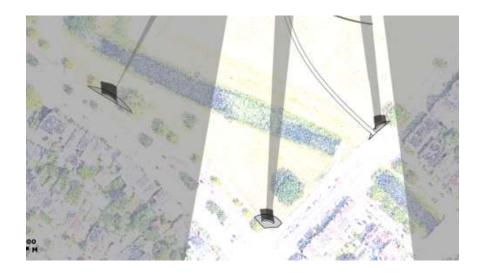


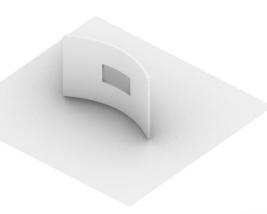
PRINCIPLE COMPOSITION-SONSBEEK

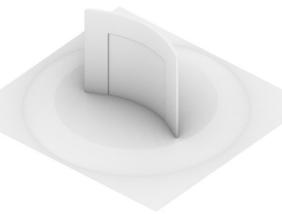




Three visual guider from city to Sonsbeek







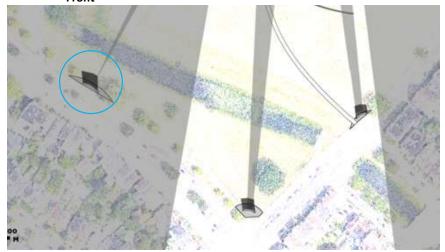


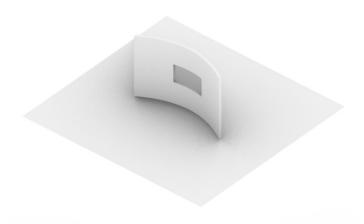
Front

Welcoming point

Cross-point

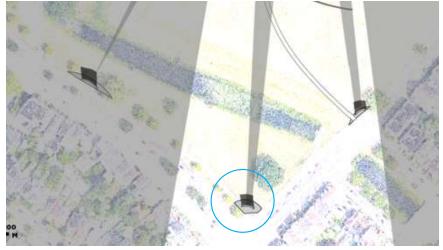
Front

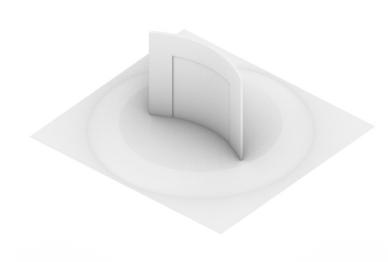






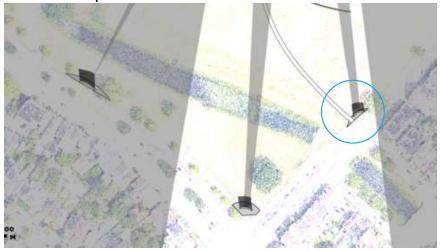
Welcoming point

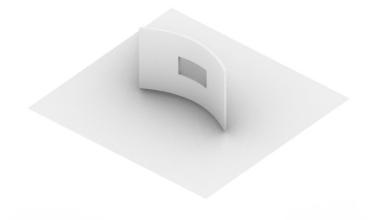






Cross-point









Installation from inside out

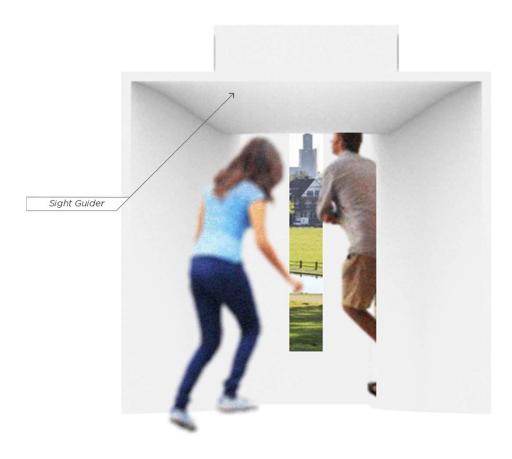






Church Eusebius

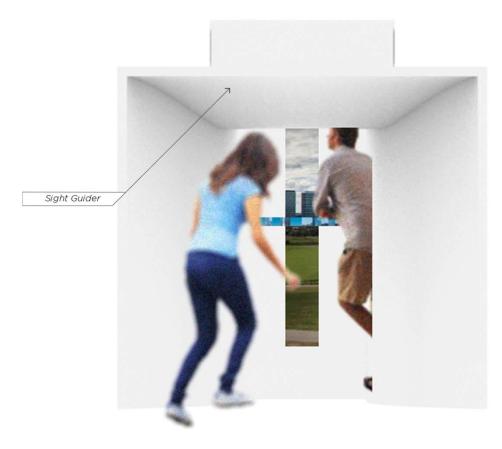






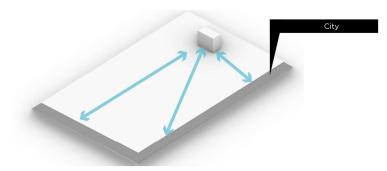
The Rijn



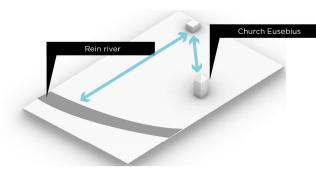




Lessons learned







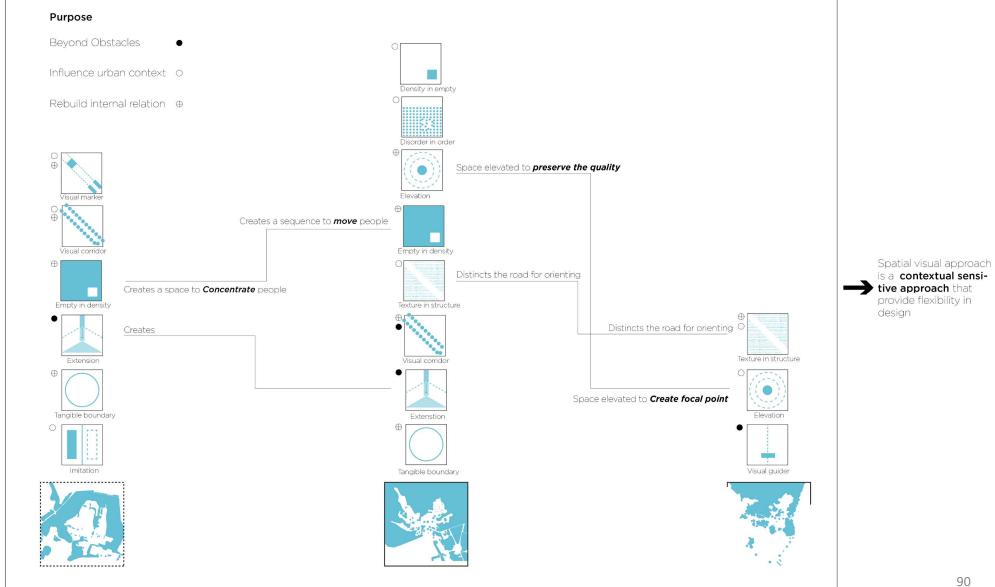
2. Connection with the city

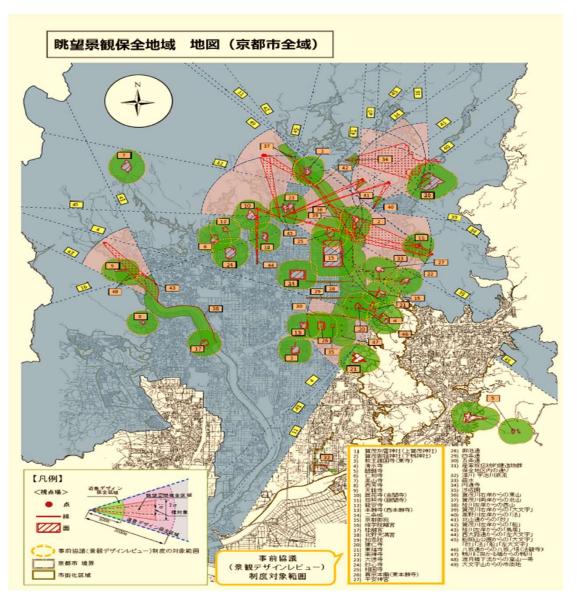
CONCLUSION&COMPARISON PLORATION

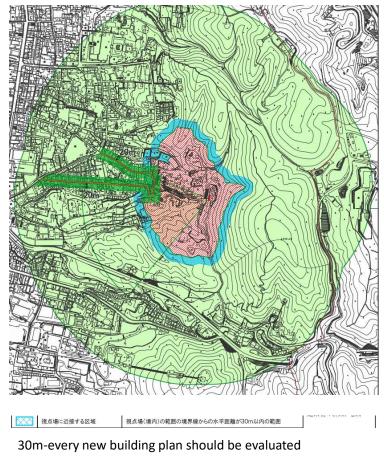
Feedback to the toolbox

NEW OLD Tangible boundary Visual guider Imitation Extension

Comparison of the three estates

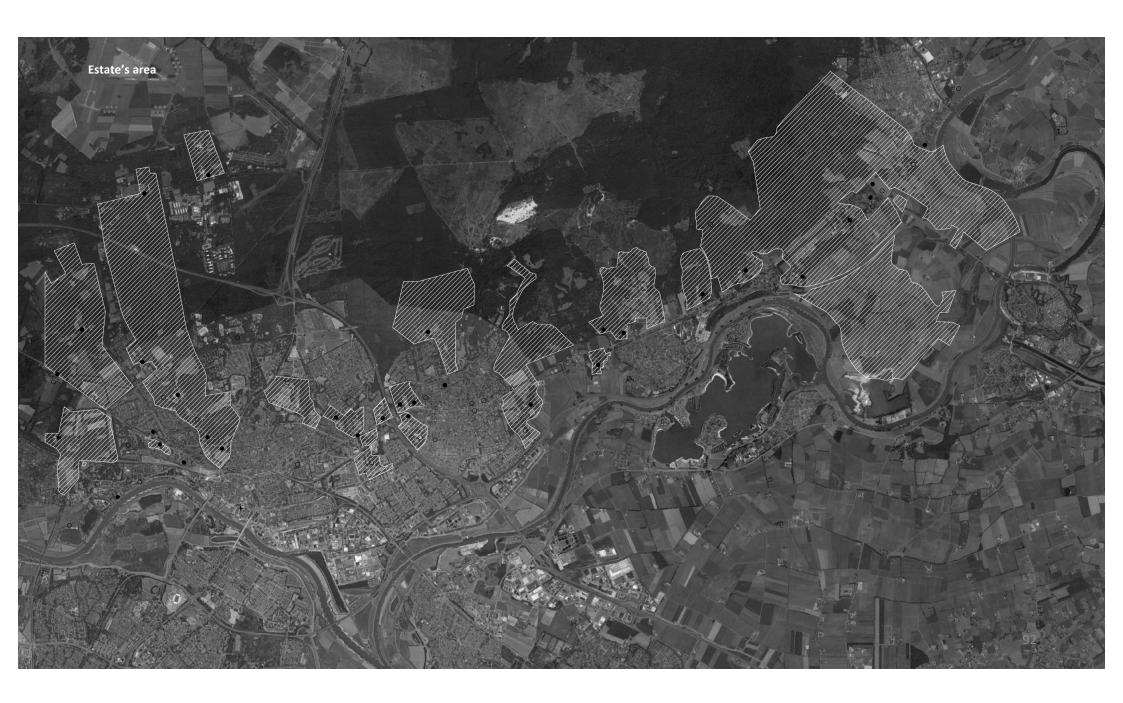




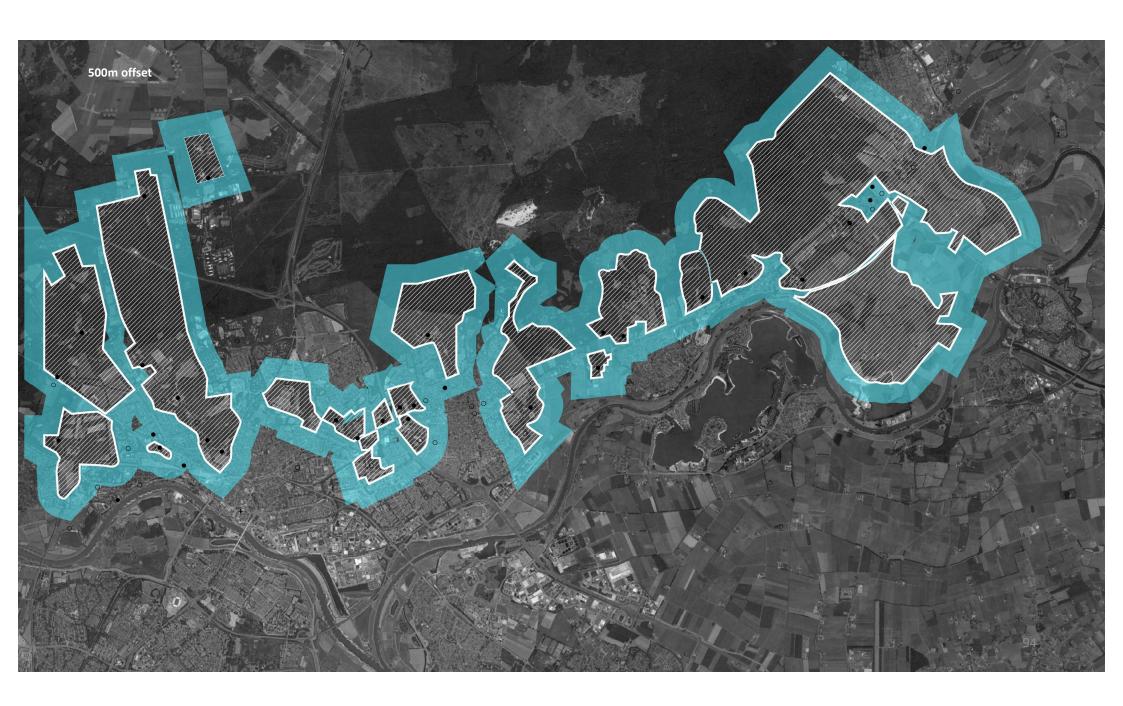


近景デザイン保全区域(境内) 視点場(境内)の範囲の境界線からの水平距離が500m以内の範囲 建築物の大規模な新築。増築 (療施費 2000 ㎡以上)

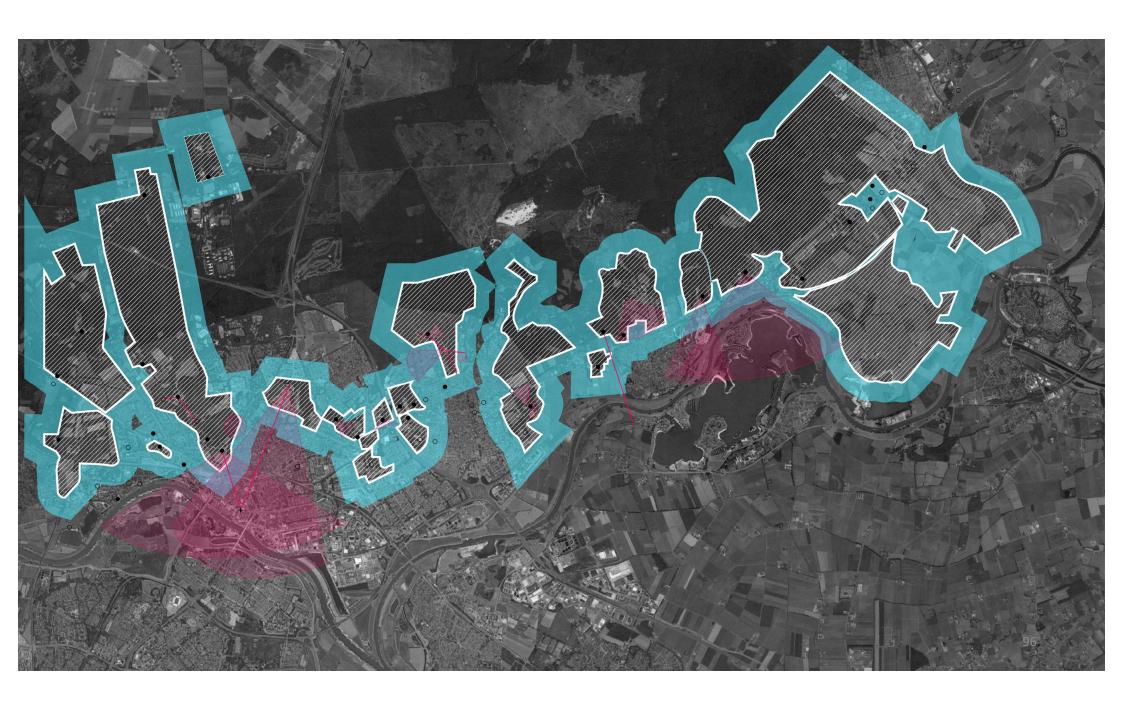
500m-building plan which has the floor bigger than 2000m2 should be evaluated



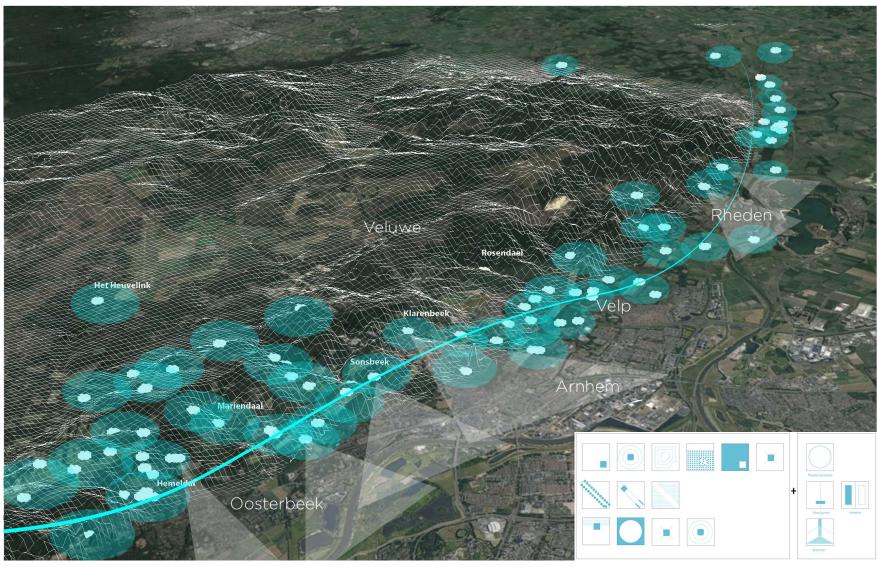








Regional Scenario



REFLECTION IPARISON



Spatial visual approach is a strong design approach that considers the local conditions like geomorphology and historical patterns that make up the visual landscape

Principles

Capacity 20 cars Un Co. Dayling of Single Housing Community housing Shop

Building Typology



Similar

process

Rozendaal Klarenbeek Sonsbeek 1..Historical analysis 1...Historical analysis 1...Historical analysis 2. Spatial sequence 2. Spatial sequence 2. Spatial sequence 3. Spatial visual analysis 3. Spatial visual analysis 3. Spatial visual analysis 4. Potentials 4. Potentials 4. Potentials 5.Principles 5.Principles 5.Principles Ideal situation 6.Master plan 6.Master plan 6.Master plan 7. Detail intro of the design 7. Detail intro of the design 7. Detail intro of the design 8.Urban plan 8. Lessons learned 8. Lessons learned 9. Lessons learned

Possible result for the future community

Testure in structure

Emply in density

Policy?

Difficult to practice, economic value.....

•

Models to promote



Thank you!!