Integrated Mobility

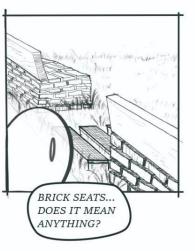
Improve the Accessibility to Military Heritage in Soesterberg

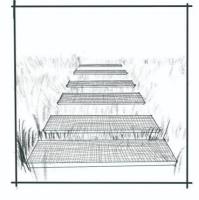


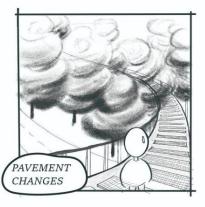
P5 Urban Fabric Lab Flowscape Graduation Studio Landscape Architecture Track

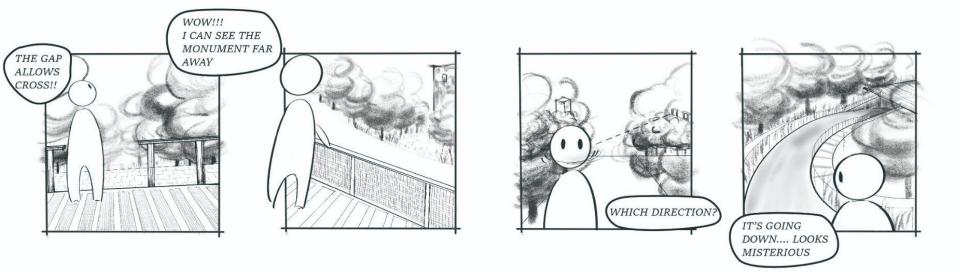
Yan Liang 2022.06.24

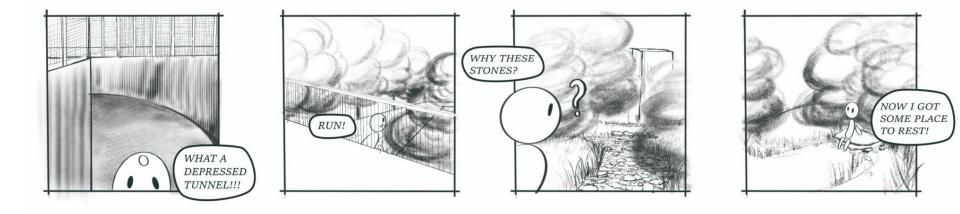


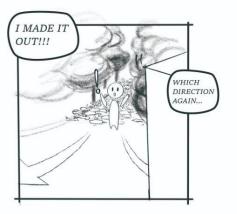


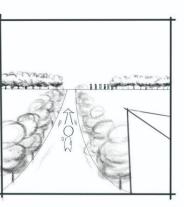


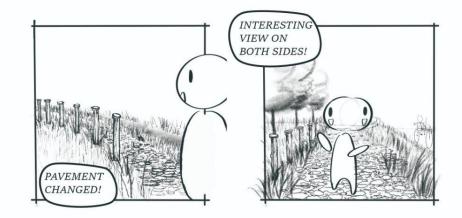














INTRODUCTION

Comics / Topics / Locations / Fieldwork

 Introduction
 Problem Field
 Analysis
 Design Strategy
 Design Implementation
 Reflection

 Comics
 Topics orientation
 Place orientation
 Fieldwork

Military Heritage

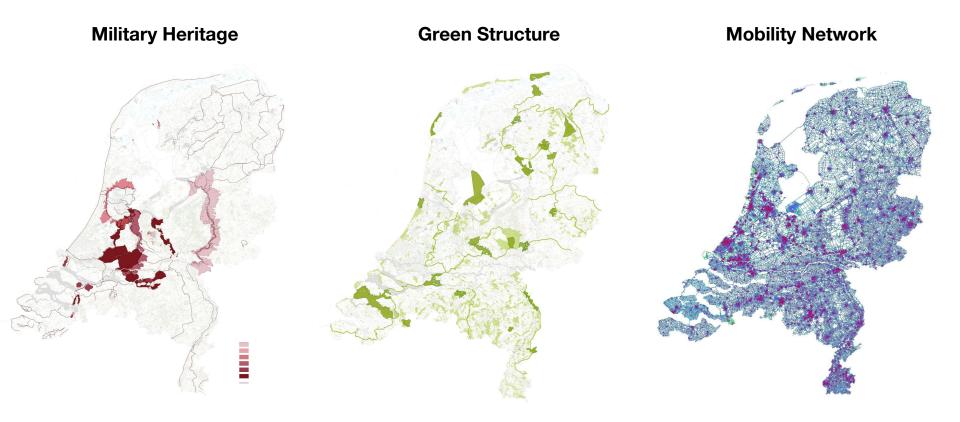
Forest Landscape

Urbanization

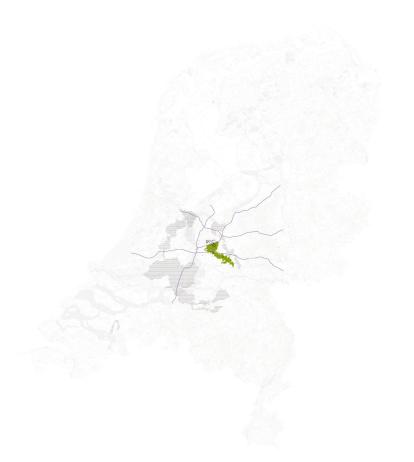


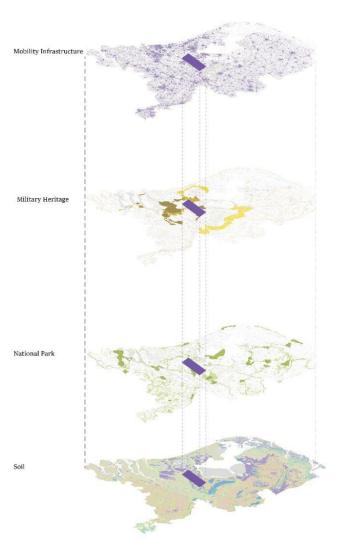
 Introduction
 Problem Field
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 Comics
 Topics orientation
 Place orientation
 Fieldwork



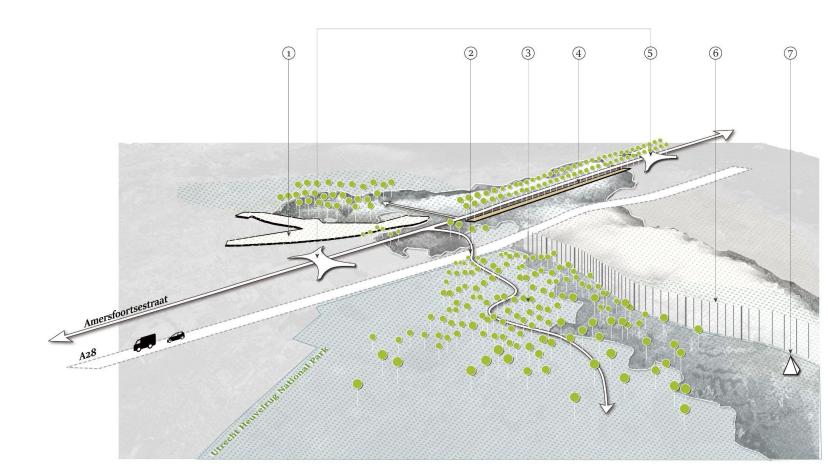
Introduction | Problem Field | Analysis | Design Strategy | Design Implementation | Reflection Topic orientation | **Place orientation** | Fieldwork

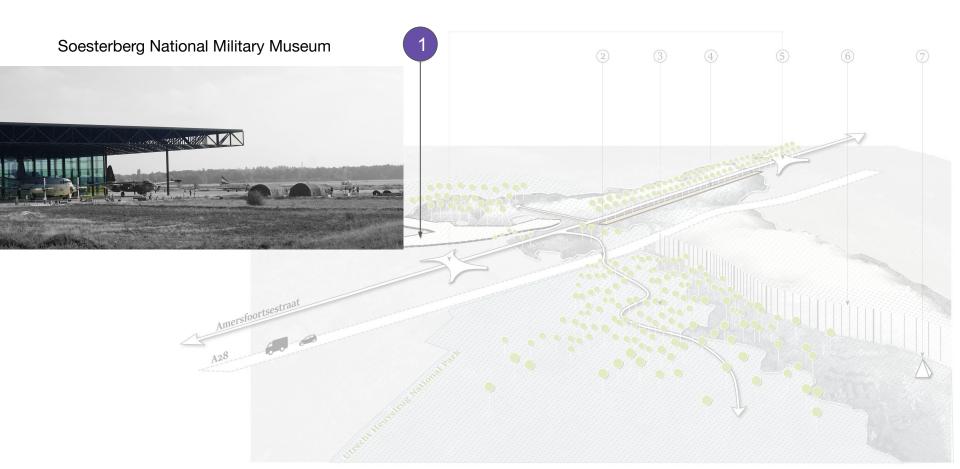




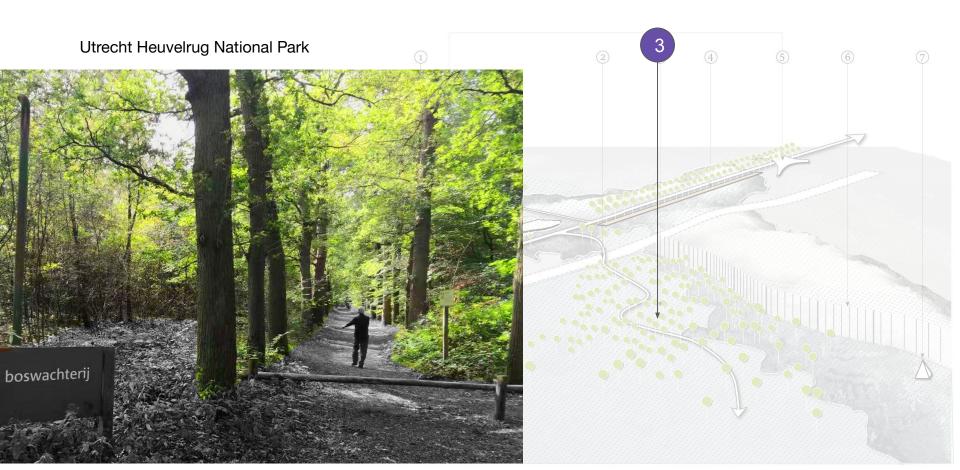
Introduction | Problem Field | Analysis | Design Strategy | Design Implementation | Reflection Topic orientation | **Place orientation** | Fieldwork

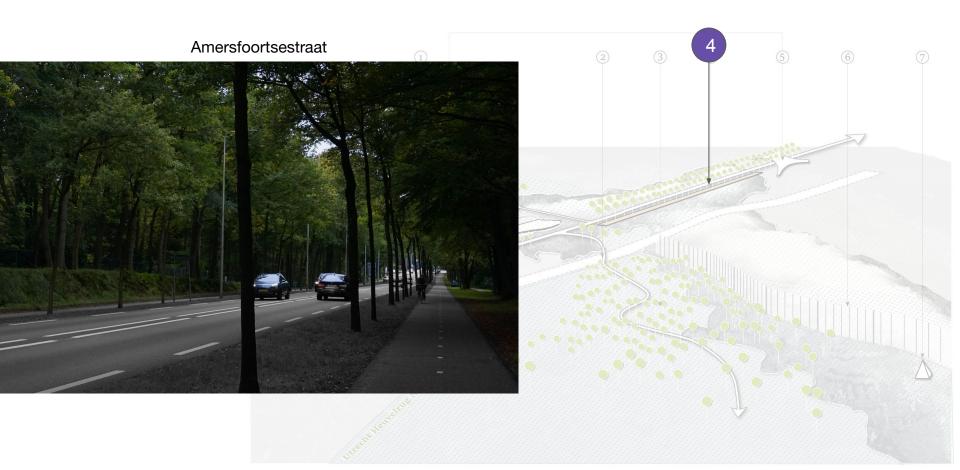


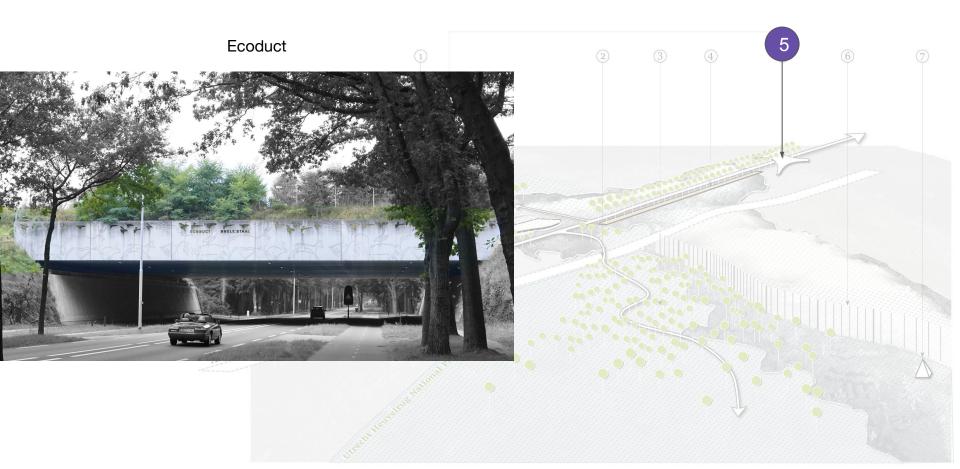


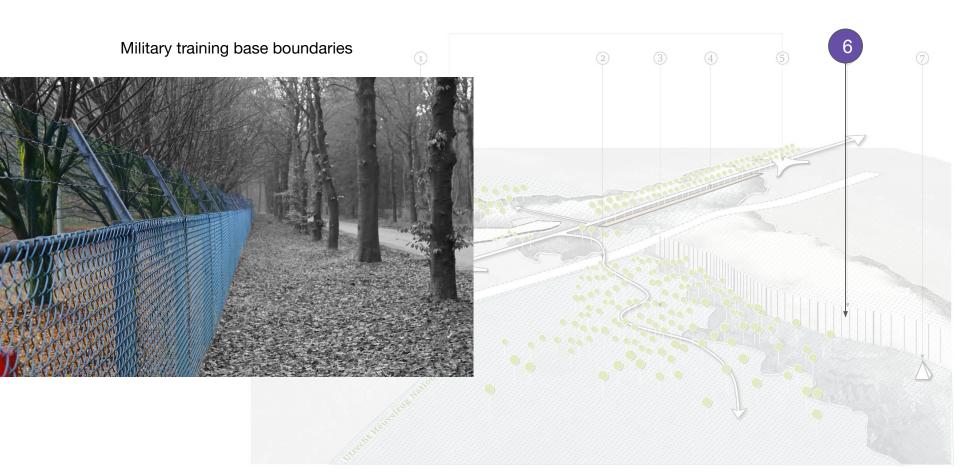


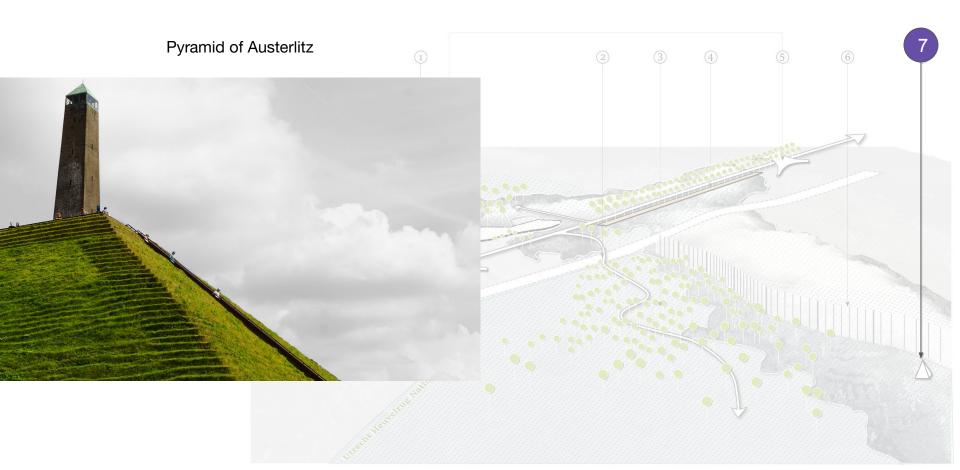












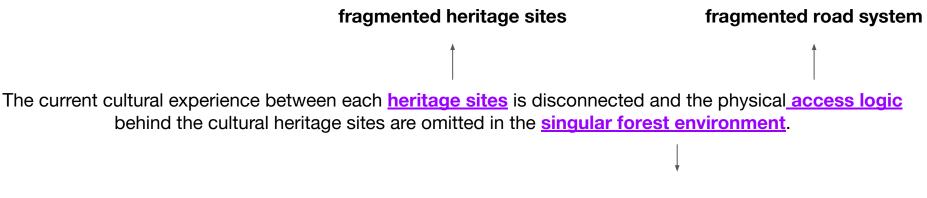
PROBLEM FIELD

Fragmented heritage sites / Fragmented roads / Monocultural forest



The current cultural experience between each heritage sites is disconnected and the physical access logic behind the cultural heritage sites are omitted in the singular forest environment.





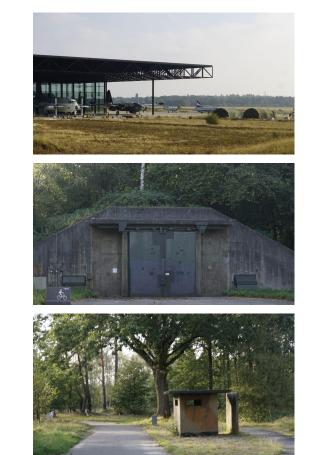
monocultural forest

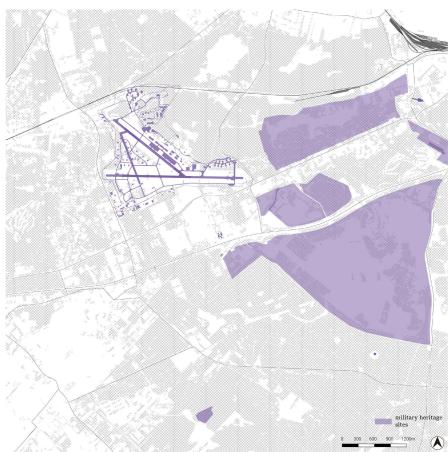
Fragmented heritage sites

large domain

medium domain

small domain





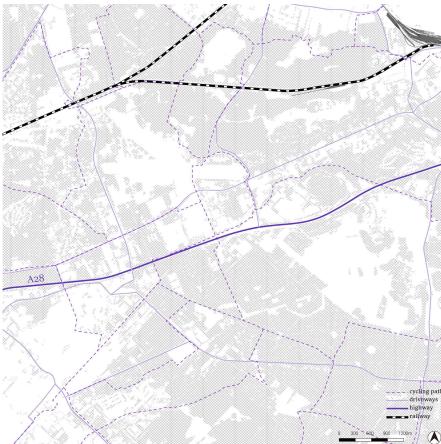
Fragmented heritage sites | Fragmented roadsystem

car lanes

cycling path

foot path





Fragmented heritage sites | Fragmented roadsystem | Monocultural forest



spruce&pine forest

RESEARCH QUESTION

The current cultural experience between each heritage sites is disconnected and the physical access logic behind the cultural heritage sites are omitted in the singular forest environment.

How to improve the accessibility, understandability and presentation of the military heritage in a forest

environment?

accessibility, understandability

and presentation

of the military heritage in a

forest environment?

What is the definition of heritage accessibility? How to increase the accessibility in different mobility systems?

Spatial accessibility

Degree of difficulty (time, distance, transportation type...) Diversities of options for people to choose

Intellectual accessibility

Feelings and visions when approaching (knowledge, awareness, experience, intuition....)

accessibility, understandability

and presentation

of the military heritage in a

forest environment?

How can people understand the story behind by perceiving and involving in the landscape?

Identity of heritage

Memory of a place: Symbols, spiritual significance, cultural representatives, time and periods...

accessibility, understandability

and presentation

of the military heritage in a

forest environment?

What are the principles of presenting a heritage landscape?

Interpretation of heritage

Harmoniously inserted interventions represent heritage identities and add value to the cultural significance.

accessibility, understandability

and presentation

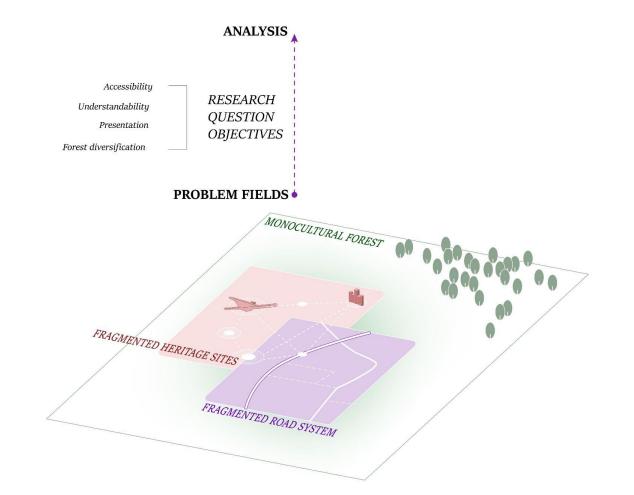
of the military heritage in a

forest environment?

What is the natural approach to diversify the monoculture forest?

Forest diversity (in this project)

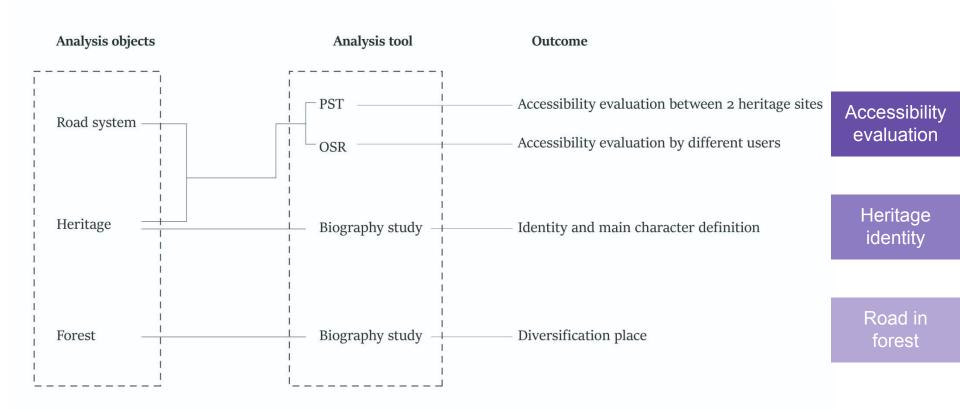
From monocultural to defensive, diversified forest





Accessibility / Heritage identity / Forest diversification

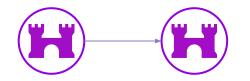
ANALYTICAL FRAMEWORK

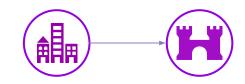


Accessibility | Heritage Identity | Forest Diversification

1. Between heritage sites

2. Socio-Accessibility



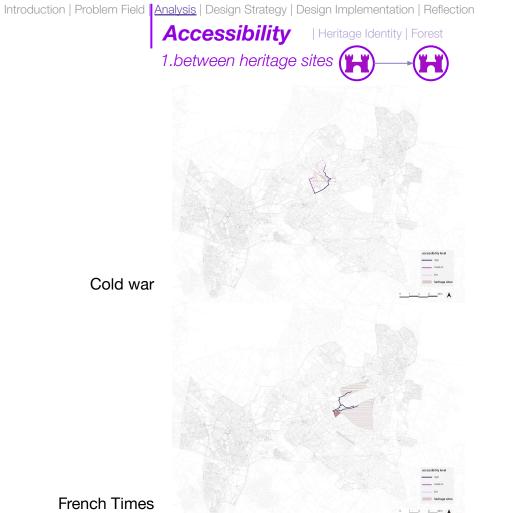


PST: Attraction betweenness

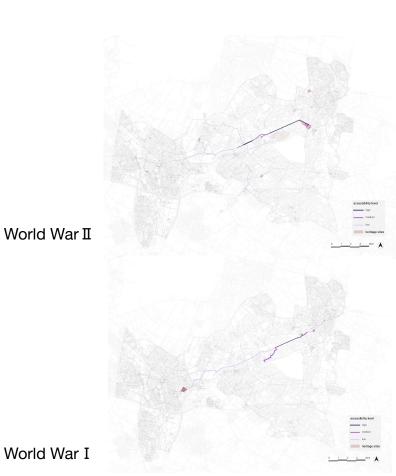
Which roads are the most likely to be taken between specific sites and locations?



Which roads are the FASTEST/SHORTEST way to take between two locations under specific mobility mode?



French Times





1.between heritage sites

High accessibility

Medium accessibility

Low accessibility



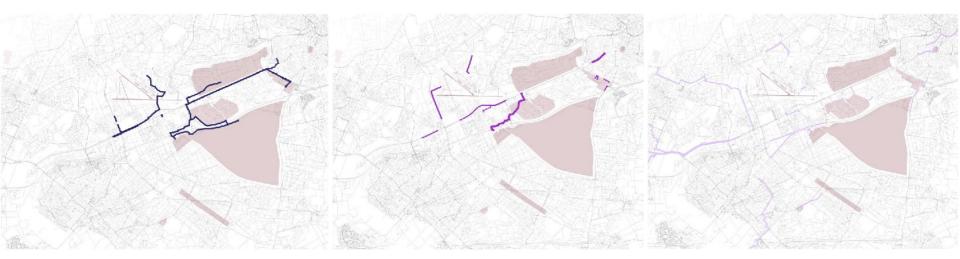


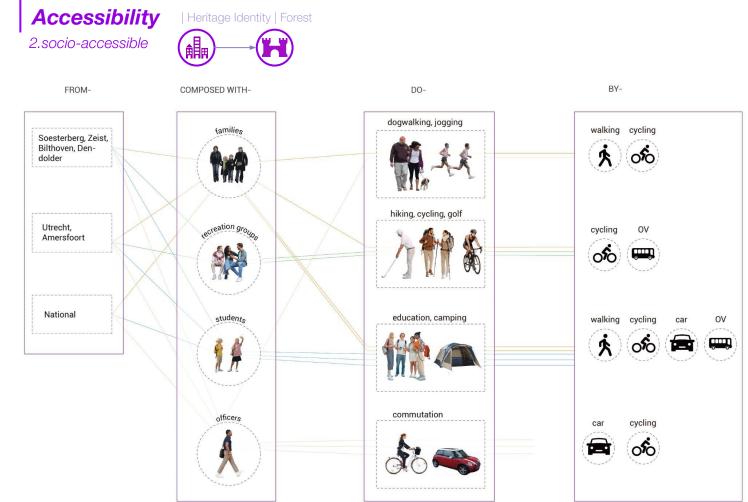


High

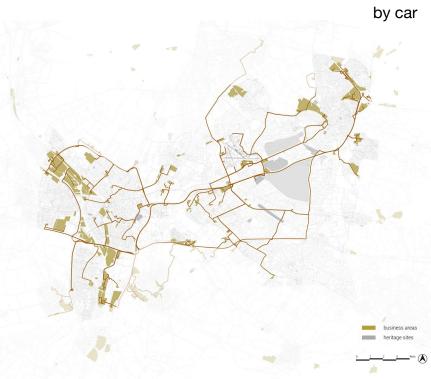
Medium

Low

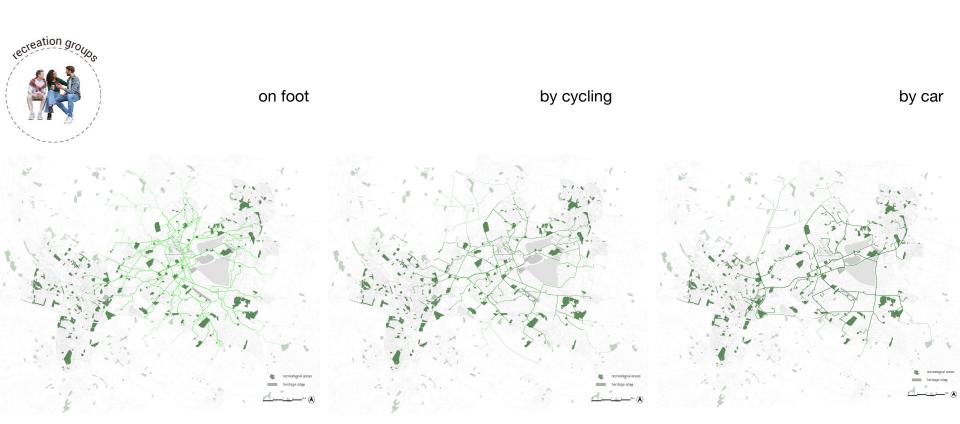










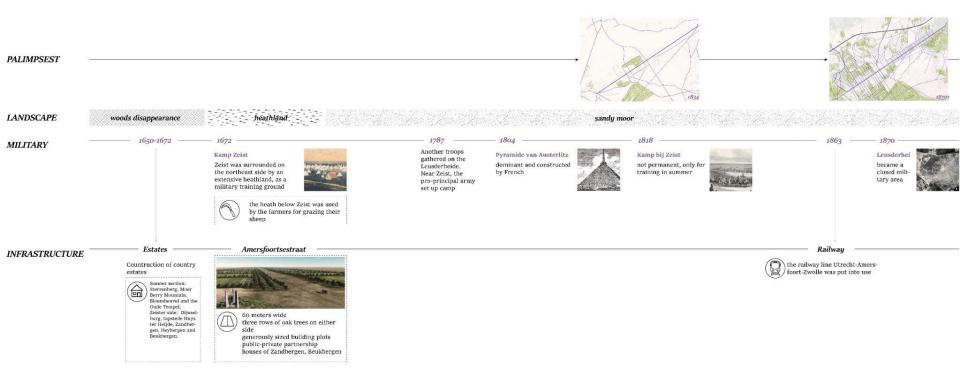


Need new connections

Most preferred-more diversities



Accessibility Evaluation | **Identity** | Forest *Military heritage biography*



Accessibility Evaluation | **Identity** | Forest *Military heritage biography*







Accessibility Evaluation | **Identity** | Forest Military heritage biography

Wars in 4 Times & characters involved

NATO soldiers There where permanent US air planes and

forces stationed till the end of the cold war in 1989.



Prisoners

Neglect, starvation, abuse and murder left their mark on the residence of more than 35,000 inmates who were imprisoned in the camp

Belgium Refugee

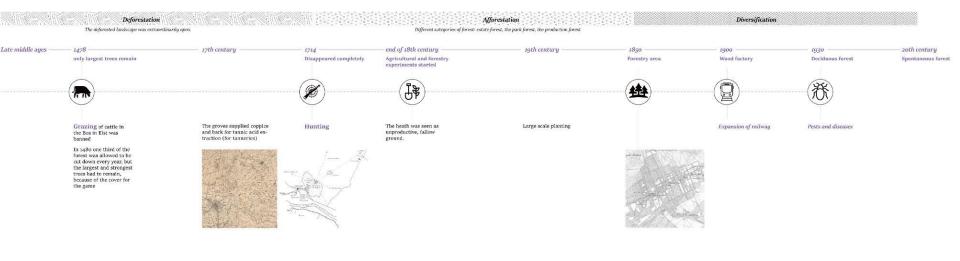
More than 12,000 refugee Belgian soldiers were interned in the immediate vicinity of the Camp

French Batavian tent camp for 18,000 men



Accessibility Evaluation | Heritage Identity | Forest

Forest modification biography

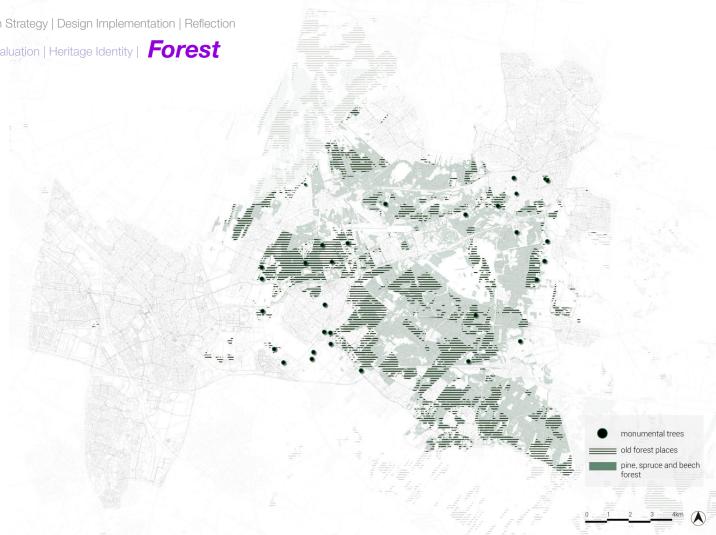


Accessibility Evaluation | Heritage Identity | Forest

1. coniferous to decidous

preserve old forest and monumental trees

forest thinning from spruce

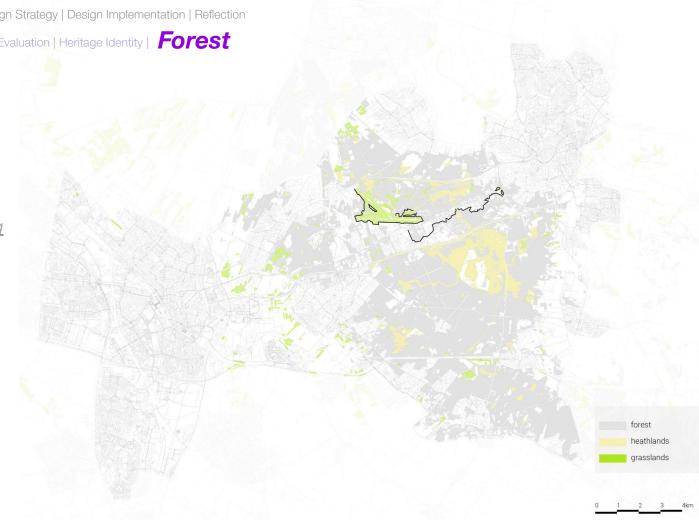


Accessibility Evaluation | Heritage Identity | Forest

2. More trees

government's plan of adding 600000 trees in 2020-2030

the fringe between forests and urban infrastructures could be a choice



Accessibility Evaluation | Heritage Identity | Forest

3. Animal crash

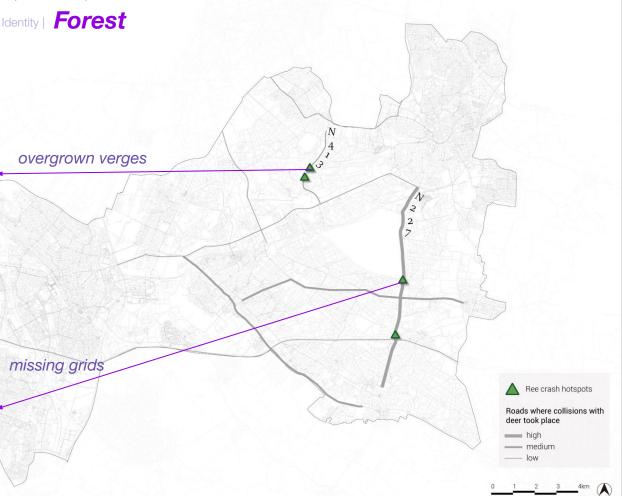
It is estimated that there are *more than 10,000* collisions with Ree in the Netherlands every year.



Accessibility Evaluation | Heritage Identity | Forest





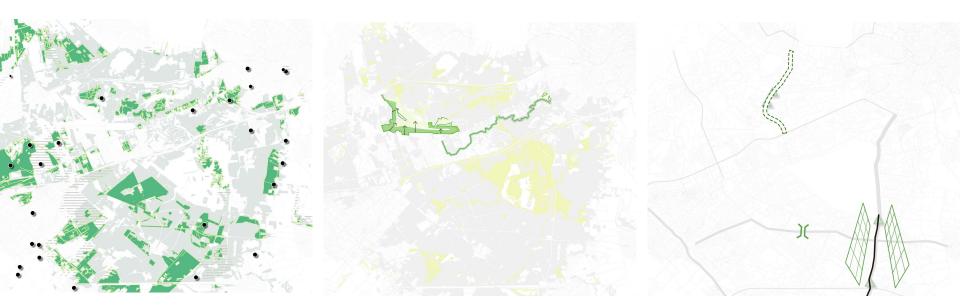


Accessibility Evaluation | Heritage Identity | Forest

1. Forest diversification: preservation and thinning

2. Forest expansion: tree plantings on the fringe

3. Animal crash: overgrown verges and grids



DESIGN ASSIGNMENTS

Heritage recognition

people perceive, feel and transfer the emotions into mental awareness of heritage instead of arriving there without recognition.

Socio-accessible

the new road system meets the requirements of different groups of people as much as possible

Forest diversification

forest with diversified species

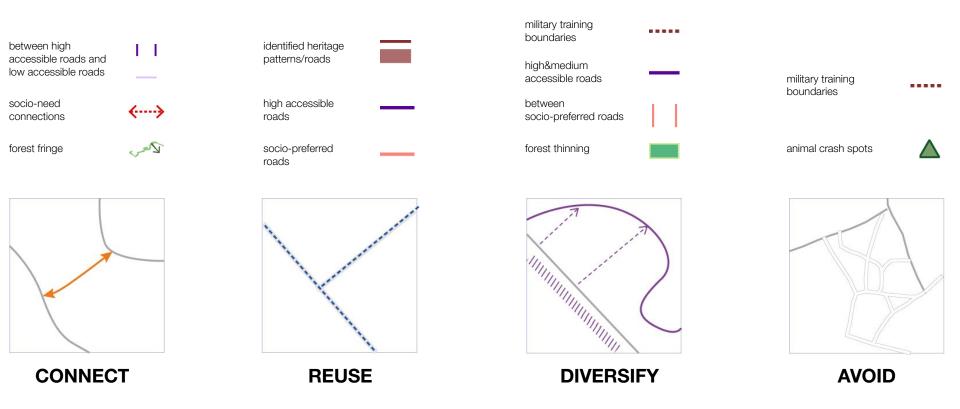


DESIGN STRATEGIES

Space / Historical elements extraction / Forest thinning

Space | Historical elements extraction | Forest thinning | Planning

How to conclude the spacial strategies from analysis?



Space | Historical elements extraction | Forest thinning | Planning

How to realize the "understandability" and "presentation"?



Cold War

Aircrafts





Steel

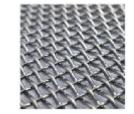
Asphalt(black)

Space | Historical elements extraction | Forest thinning | Planning

How to realize the "understandability" and "presentation"?



"Palestina Express"





Wire(black/silver) Cinder(black and grey)

Space | Historical elements extraction | Forest thinning | Planning

How to realize the "understandability" and "presentation"?

World War I









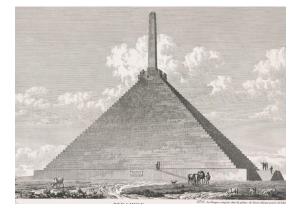
Sheltered house

Belgium refugee monument Bricks(red)

Wood plank

Space | Historical elements extraction | Forest thinning | Planning

How to realize the "understandability" and "presentation"?



French times

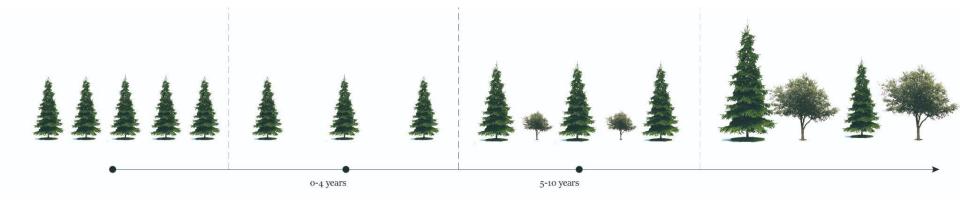
Pyramid

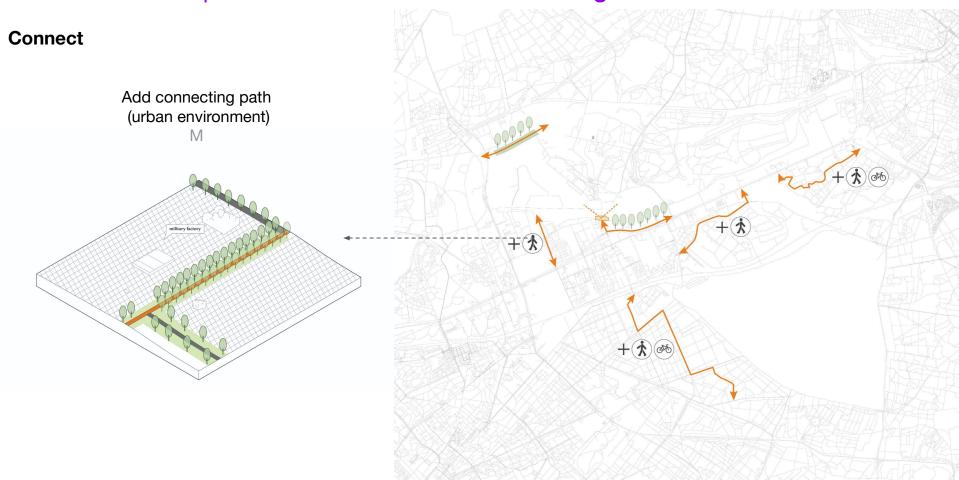


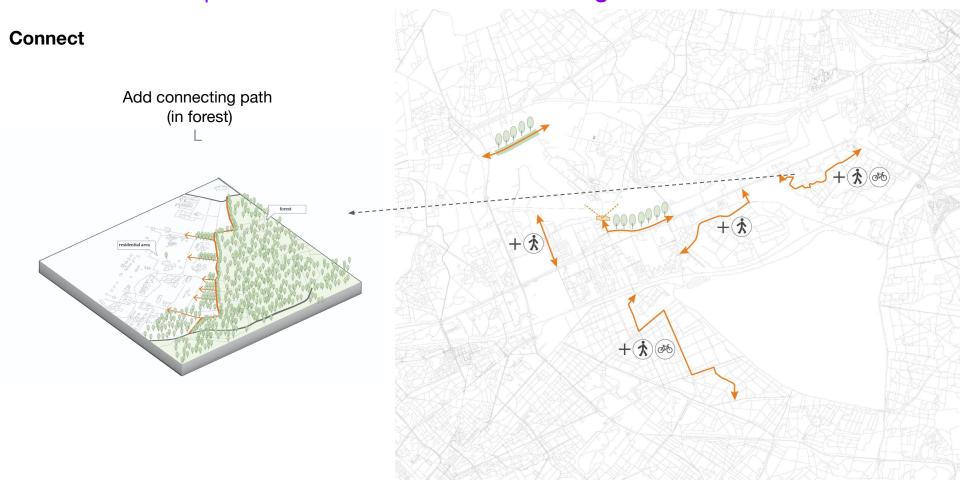
Stones

Space | Historical elements extraction | Forest thinning | Planning

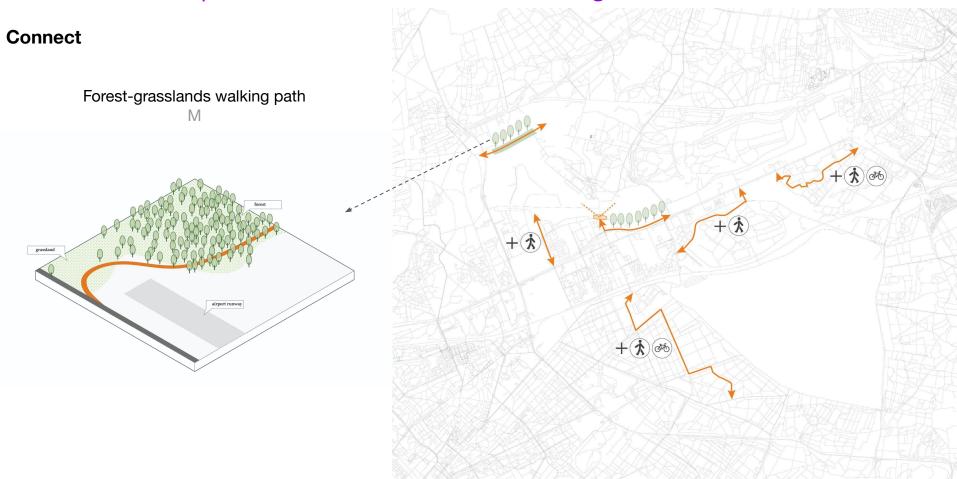
How to turn the coniferous forest to decidous forest?



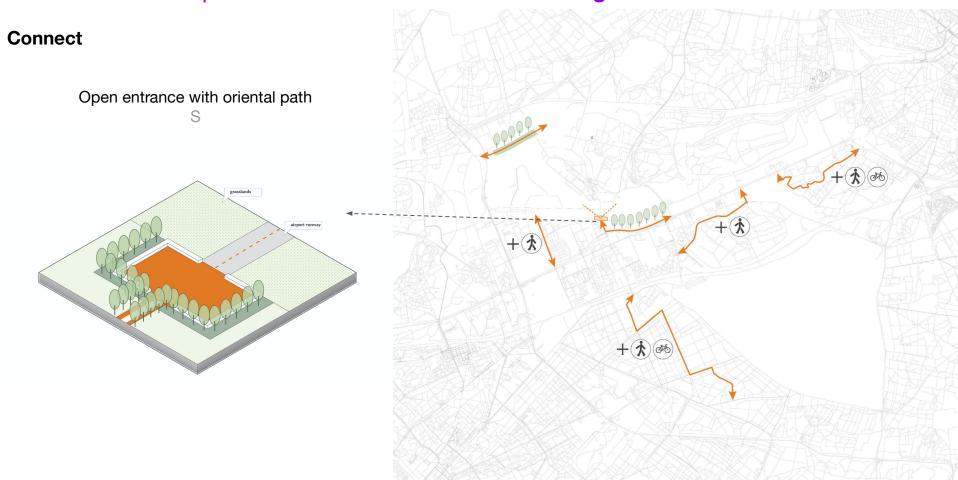




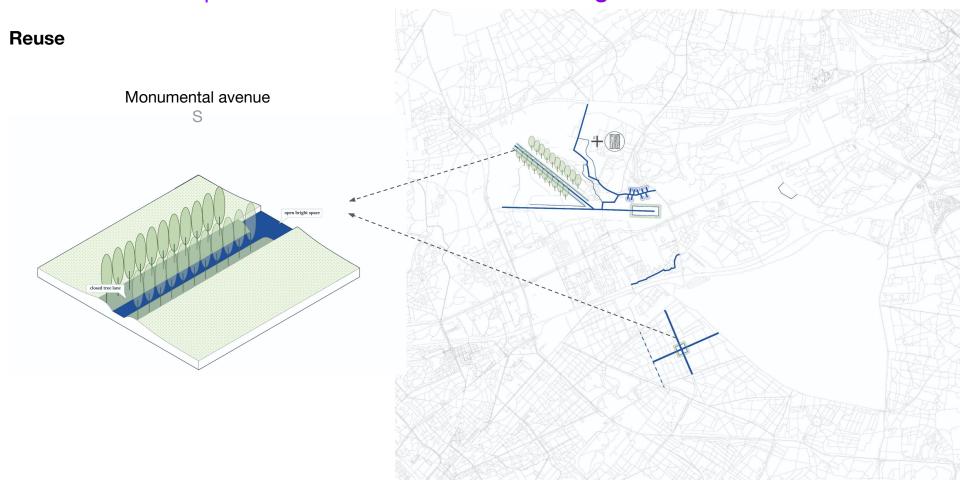




Introduction | Problem Field | Analysis Design Strategy | Design Implementation | Reflection



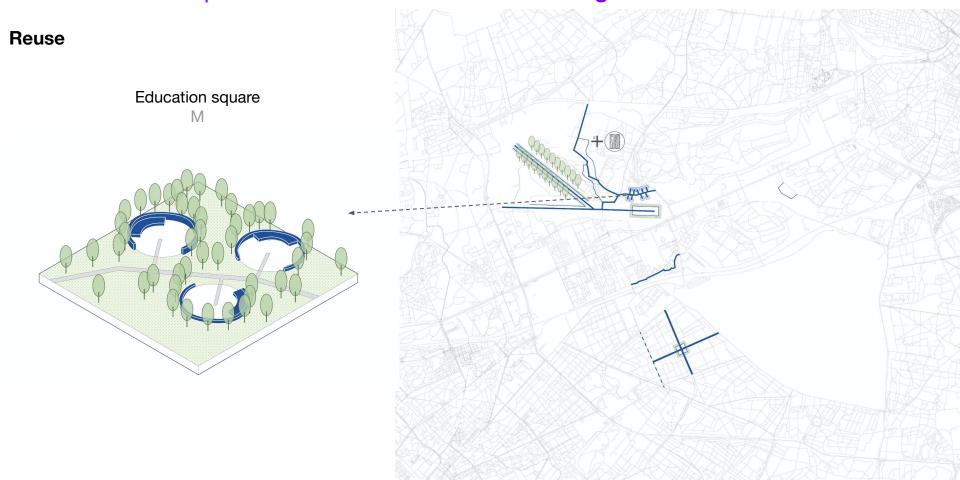
Introduction | Problem Field | Analysis Design Strategy | Design Implementation | Reflection



Introduction | Problem Field | Analysis Design Strategy | Design Implementation | Reflection



Introduction | Problem Field | Analysis Design Strategy | Design Implementation | Reflection





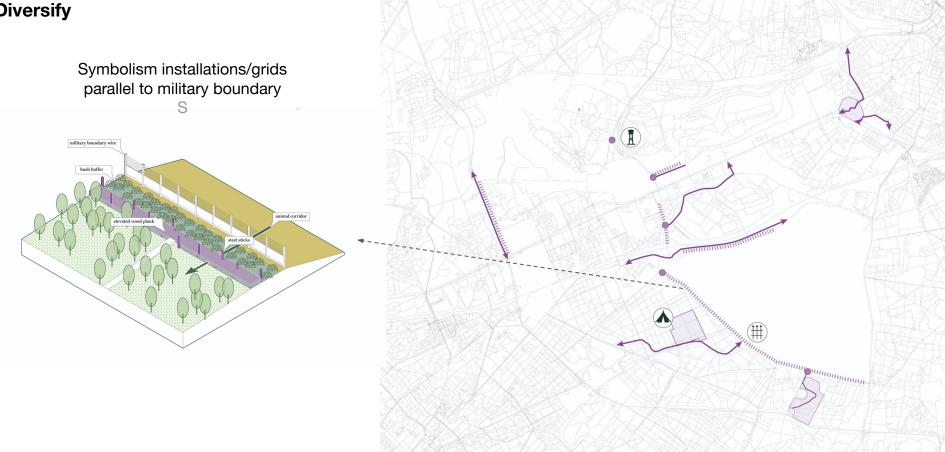
Space | Historical elements extraction | Forest thinning | **Planning**

Diversify

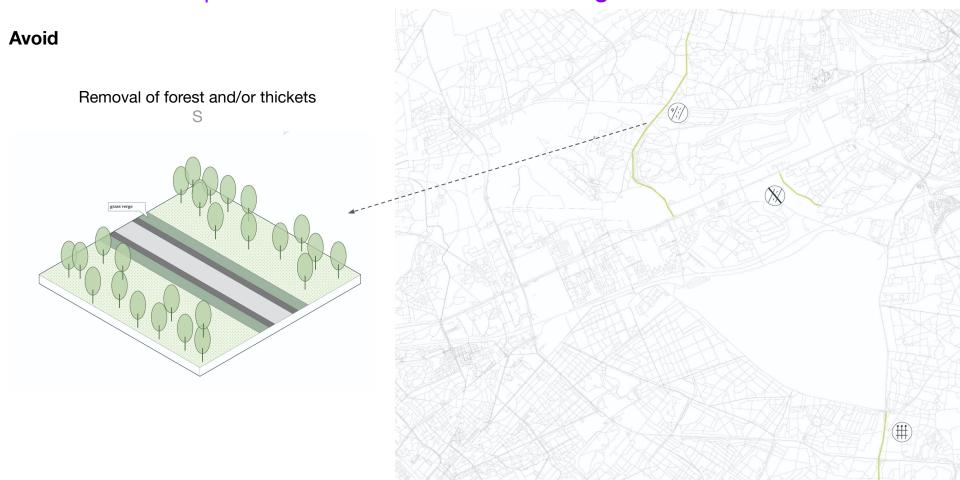


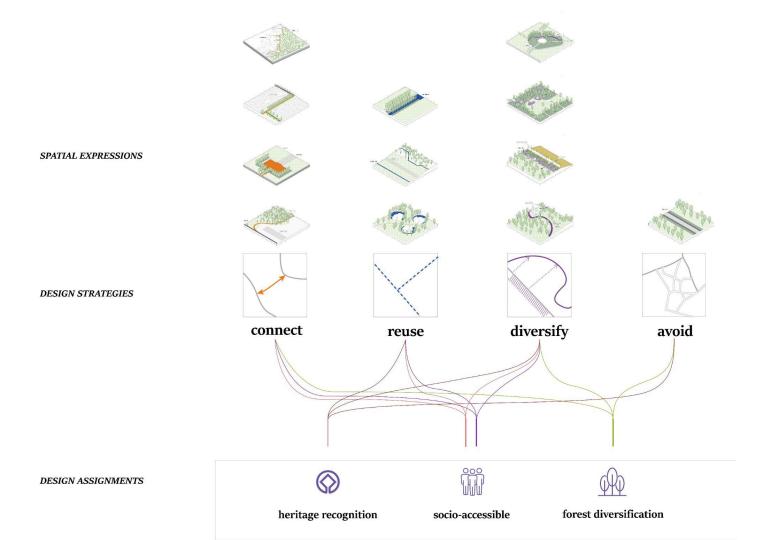
Space | Historical elements extraction | Forest thinning | **Planning**

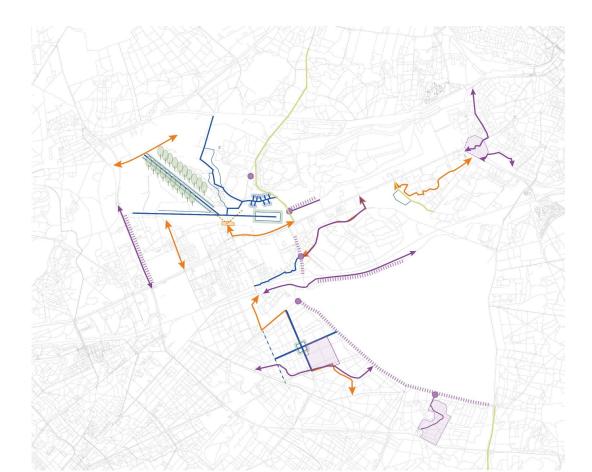
Diversify



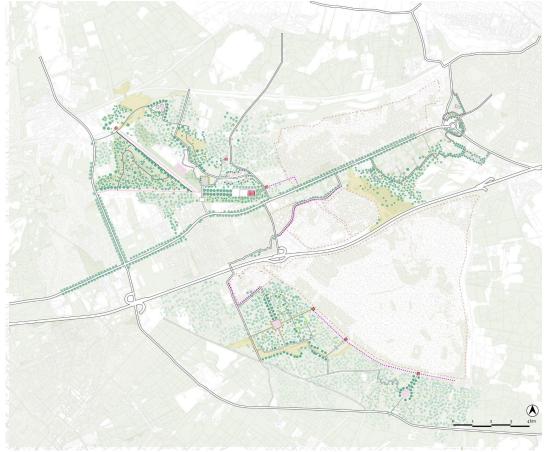








REGIONAL VISION



LOCAL LOOP





LOCAL LOOP

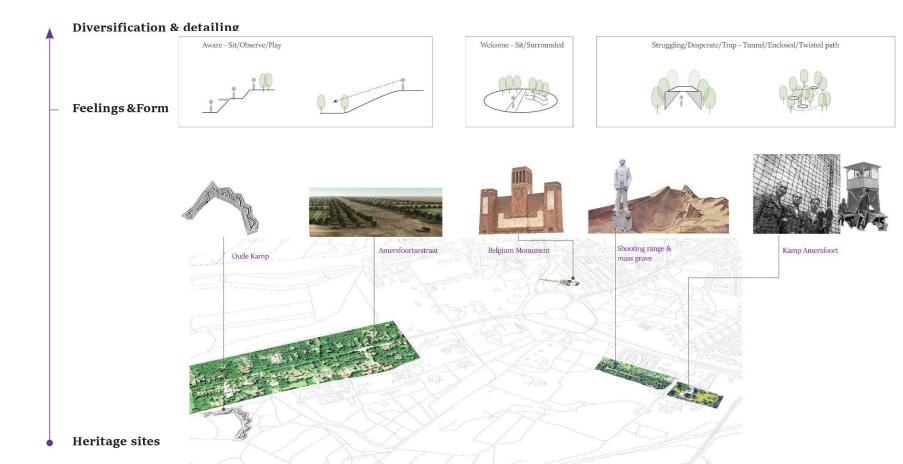
Feelings&forms / Socio-accessible / Masterplan / Nodes&line

Feelings&Forms | Socio-accessibility | Masterplan | Nodes&lines

How to implement the 'historical elements extraction' strategy in the local scale?

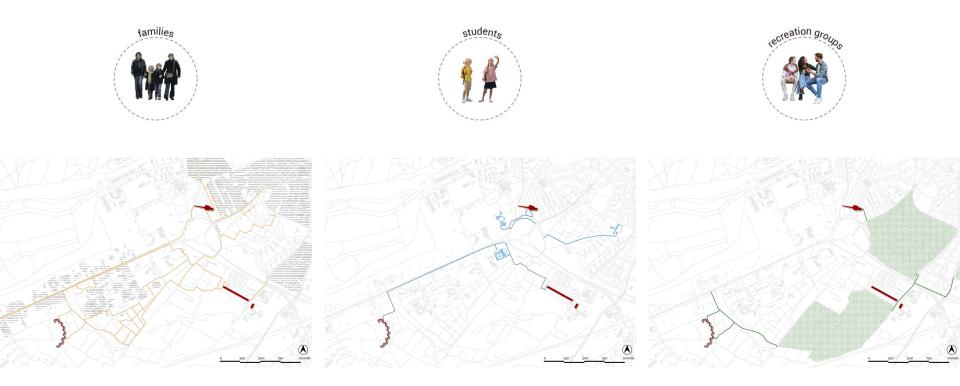
>	_	Diversification & detailing
How to show it by materials, colors, plantings?		Installations: Wire mesh fence, brick/wood seats, Pavement: Steel mesh steps, wooden plank, bricks sitting, Plantings: Oak tree lines, single tree square, tree avenue
		Form
How to translate the feelings into spatial expressions?		Sit, Observe, Play, Surrounded, Tunnel, Enclosed, Twisted path
		Feelings
How did characters experience at that time?		Aware, Welcome, Struggling, Desperate, Trap
		Heritage sites

Feelings&Forms | Socio-accessibility | Masterplan | Nodes&lines

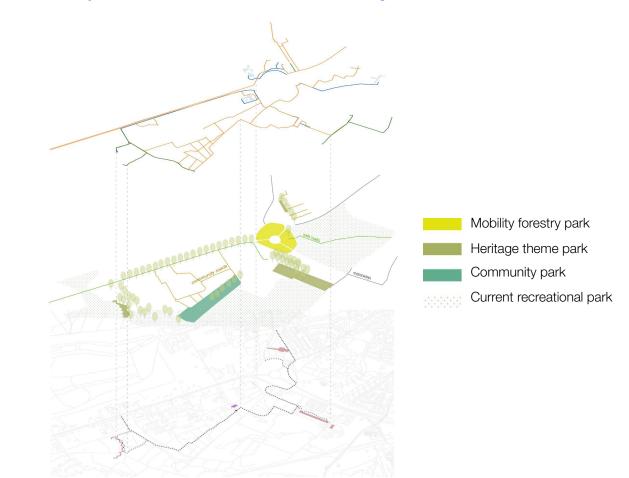


Feelings&forms | **Socio-accessibility** | Masterplan | Nodes&lines

How do the functional areas get access to the heritage site?



Feelings&forms | Socio-accessibility | **Masterplan** | Nodes&lines

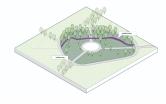


Feelings&forms | Socio-accessibility | Masterplan | Nodes&lines



Connect

Diversify(infrastructure park)



Diversify(lookout)



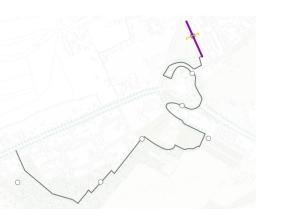
Feelings&forms | Socio-accessibility | Masterplan | **Nodes&line**

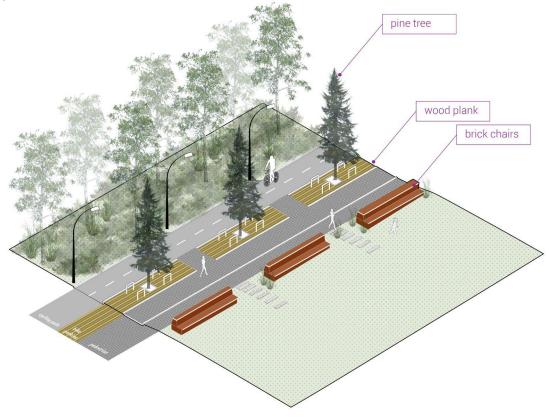
How to make the 'presentation' 'spatial planning' strategy tangible in the local scale?



Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

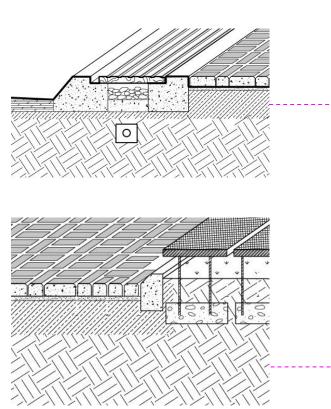
Line01 Sidewalk - Wood plank - Steel mesh steps

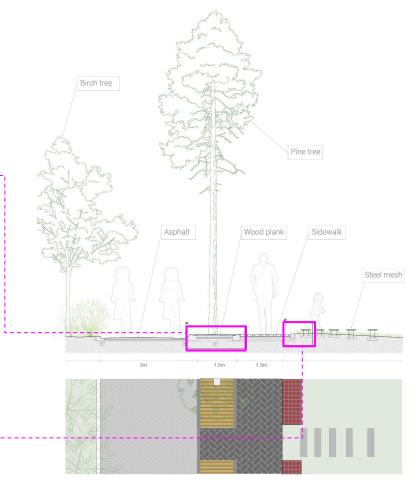




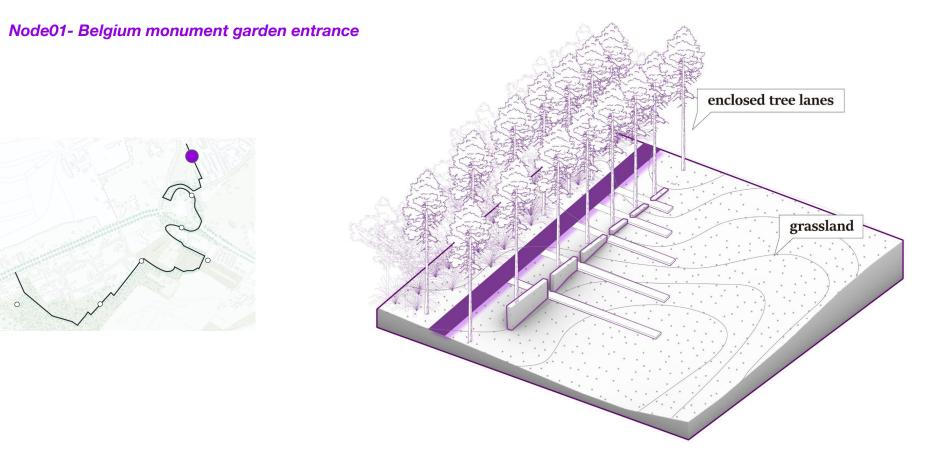
Feelings&forms | Socio-accessibility | Masterplan | Nodes&line







Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

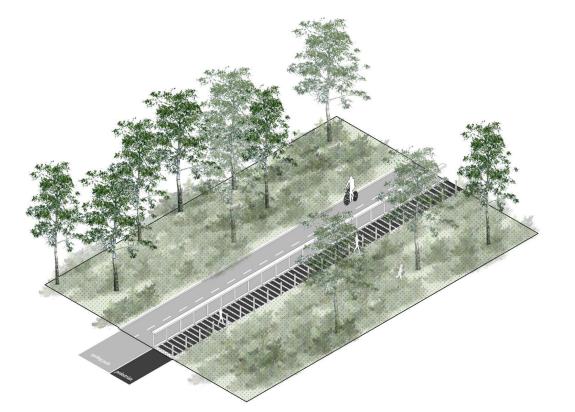


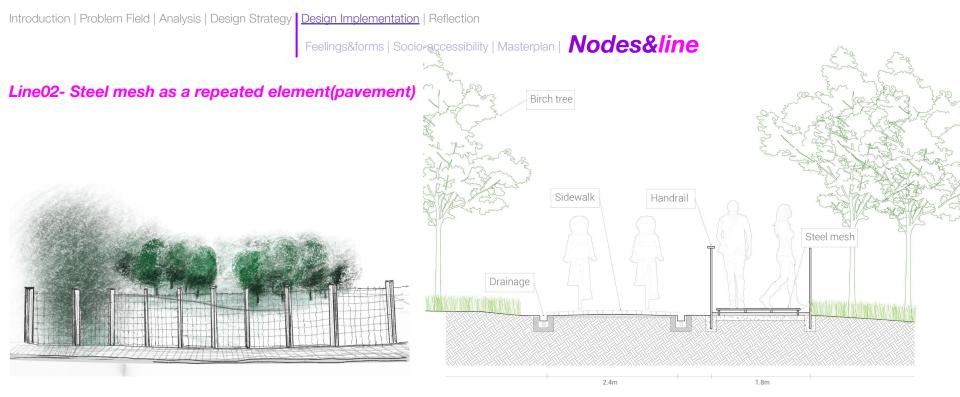


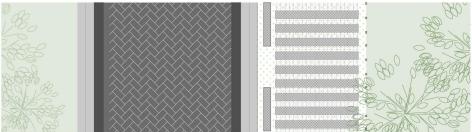
Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Line02- Steel mesh as a repeated element(pavement)





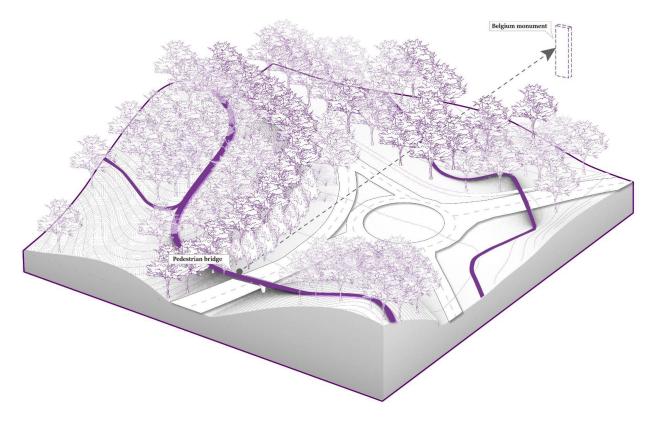




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Node02- Pedestrian bridge to view the Belgium monument



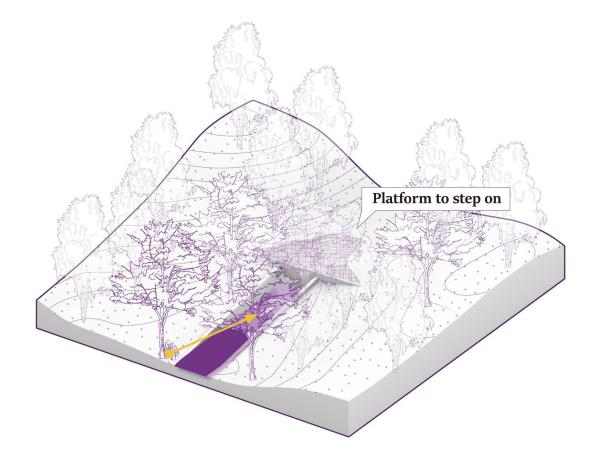




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Node03- Tunnel in the woods





Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Node03- Tunnel in the woods

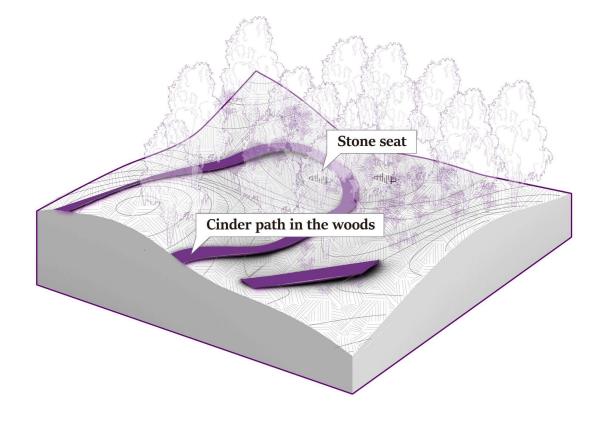




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Node04- Cinder paths and stone seat in woods





Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

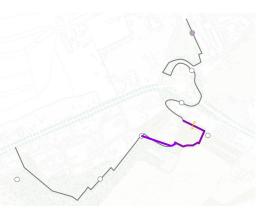
Node04- Cinder paths and stone seat in woods

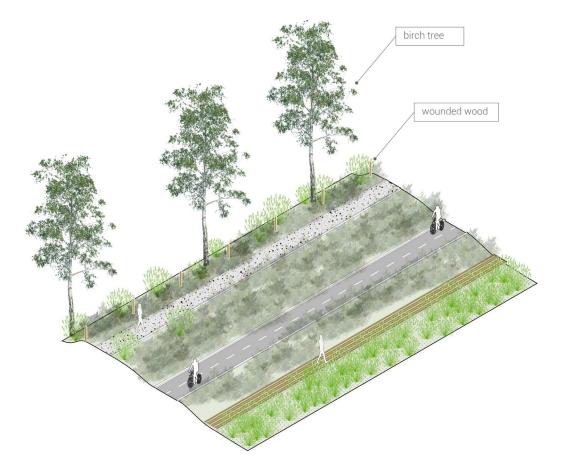




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

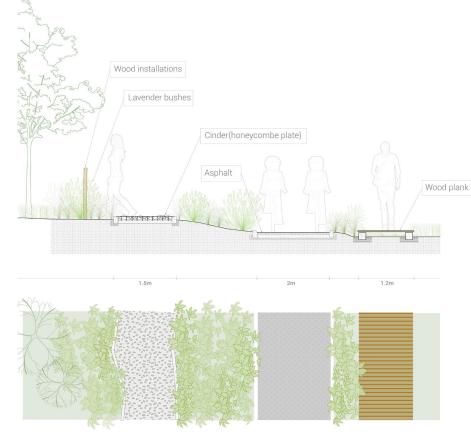
Line03 Gravel - Asphalt - Wooden path





Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Line03 Gravel - Asphalt - Wooden path



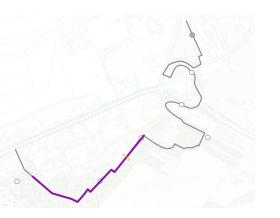
Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

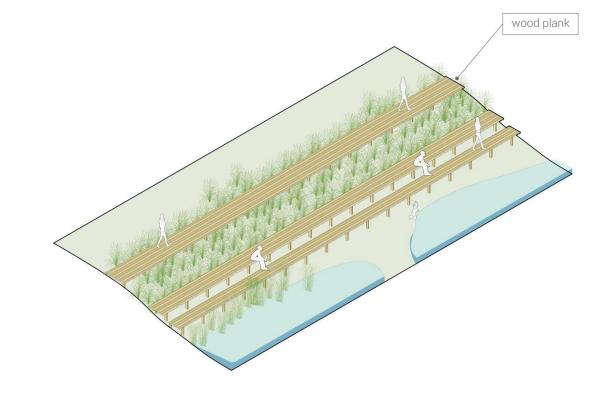
Node05- Lifted path to have an overview of Amersfoortsestraat wounded wood stick



Feelings&forms | Socio-accessibility | Masterplan | **Nodes&line**

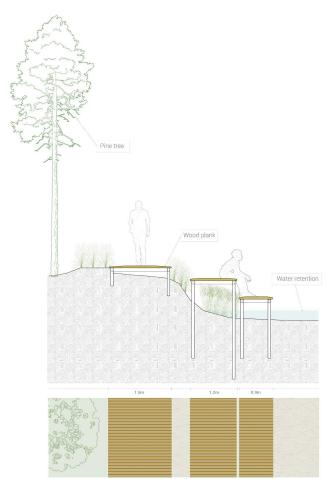
Line04 Lifted wooden path





Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

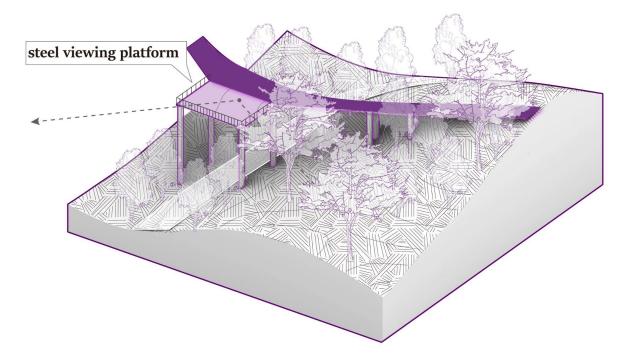




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Node06- Viewing platform towards Amersfoortsestraat

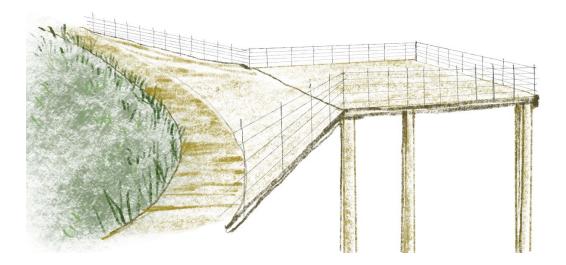




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

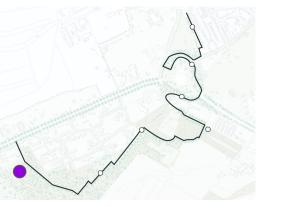
Node06- Viewing platform towards Amersfoortsestraat

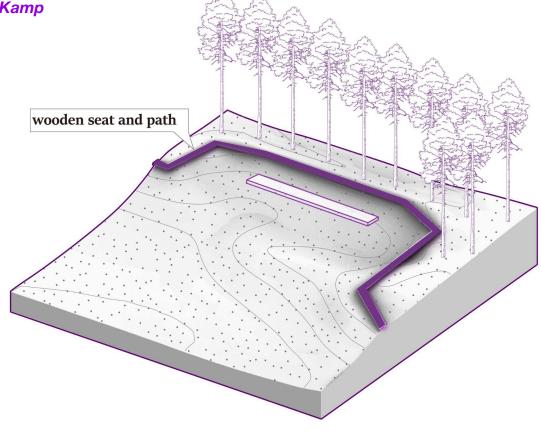




Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

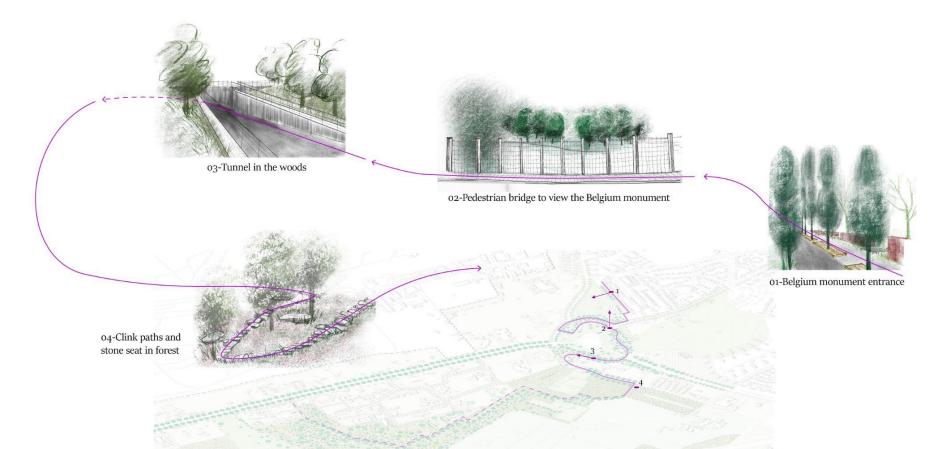
Node07-Wooden path and sandy pitch in Oude Kamp





Feelings&forms | Socio-accessibility | Masterplan | Nodes&line

Sequential perspectives



Feelings&forms | Socio-accessibility | Masterplan | **Nodes&line**

Sequential perspectives



REFLECTION

Research and design

Interwoven process of defining and specifying

Challenges during the process

Same war - different culture perspectives - different experiences

Reflection about my role

As a designer and a participant As a landscaper and an urbanist

THANK YOU !