

DUMOULIN IPW III PROJECT: PIPE AND BRICK FACTORY WIJTSCHATE



Studenten

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Begeleider

Prof. Barbara Van der Wee

In samenwerking met

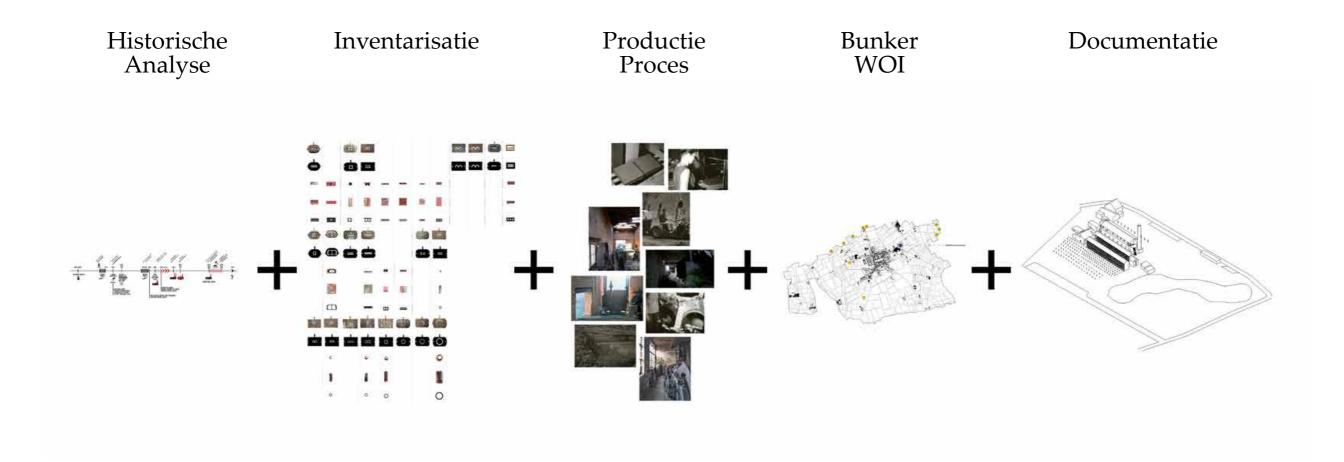






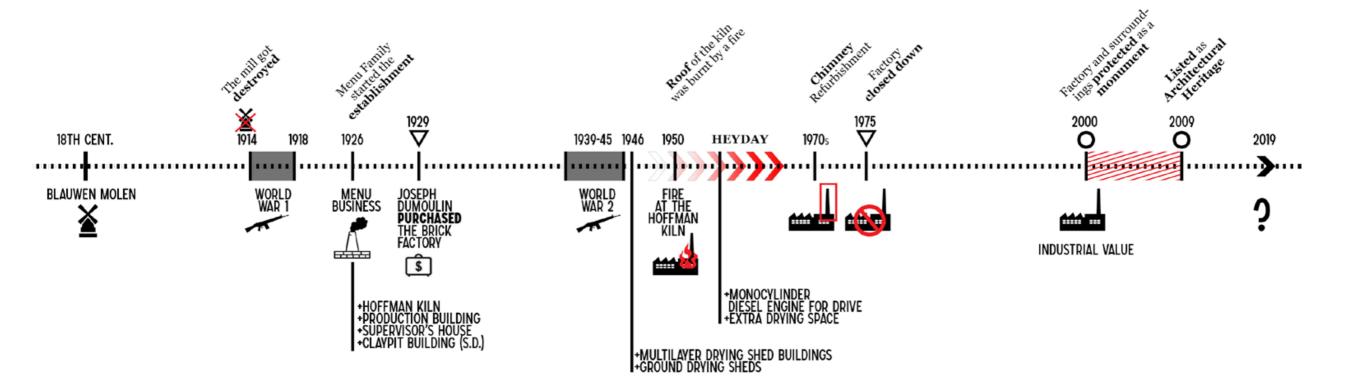


Opdracht - Doelen

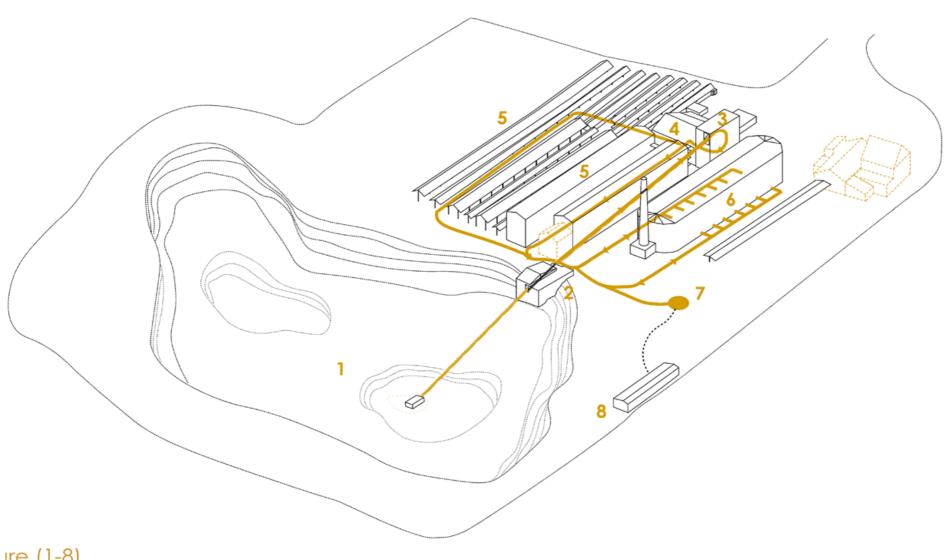


MasterplanBescherming + Toekomstvisie

Historische Analyse - Tijdlijn



Historische Analyse - Productie Proces



Procedure (1-8)













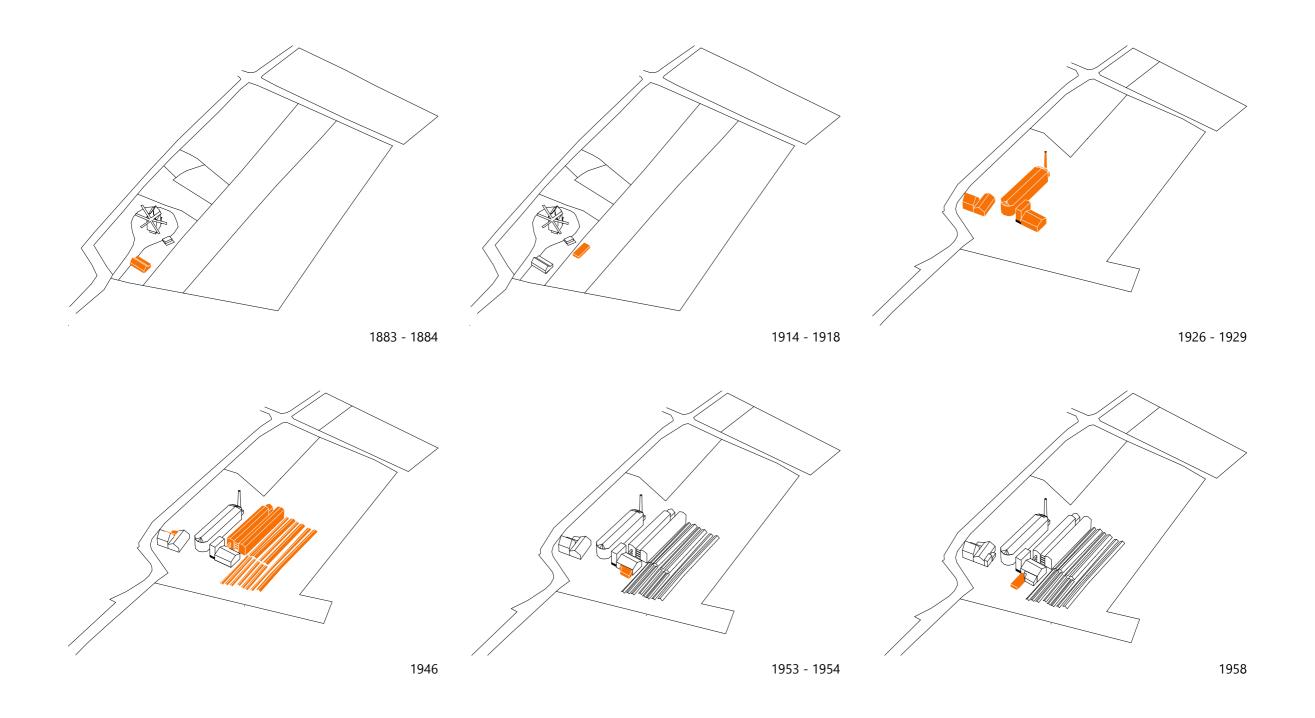




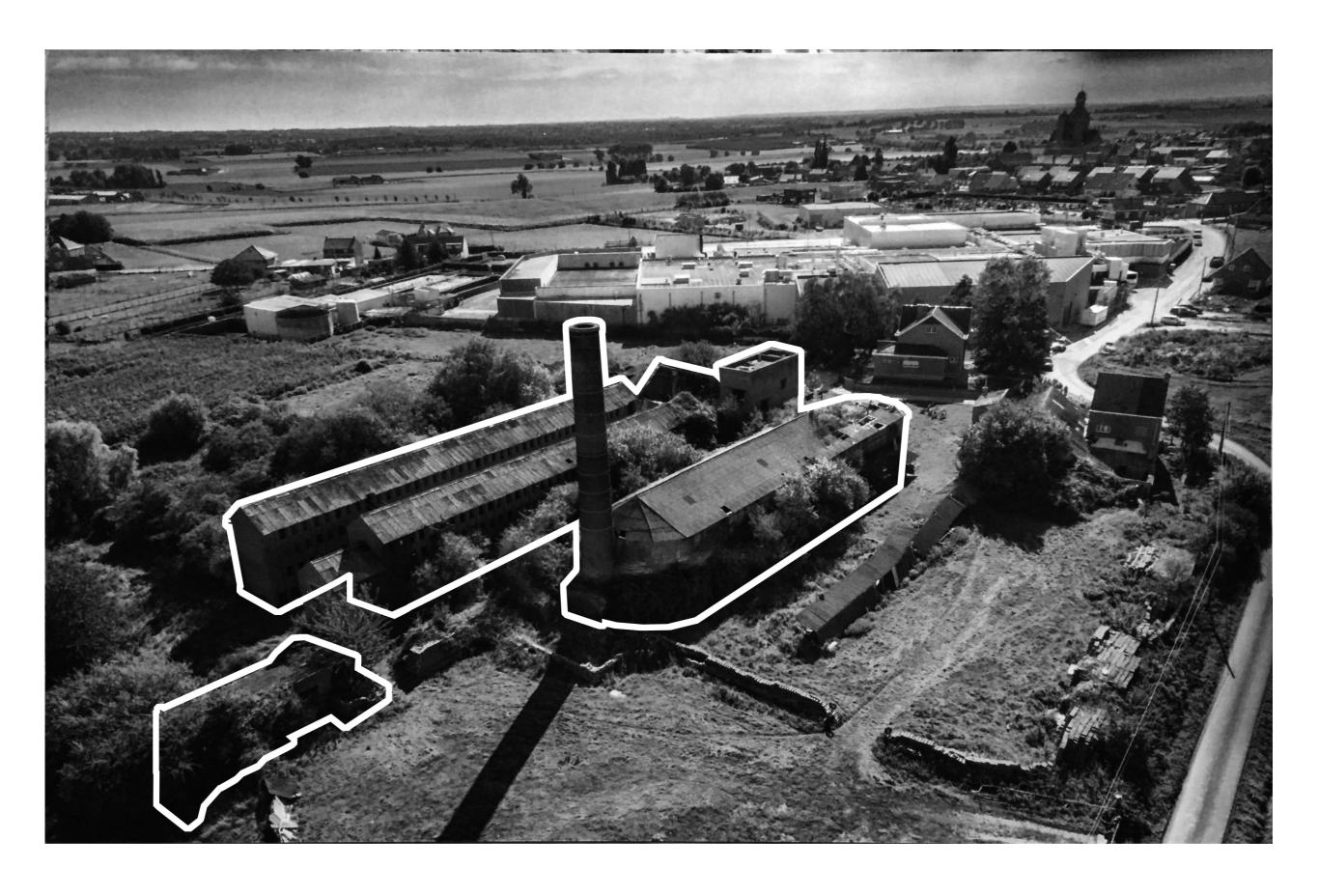
Historische Analyse - WWI Bunker



Historische Analyse - Kadaster

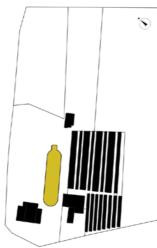


Site Analyse - Perimeter

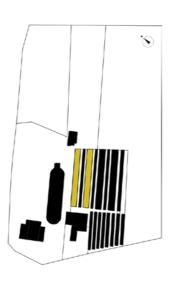


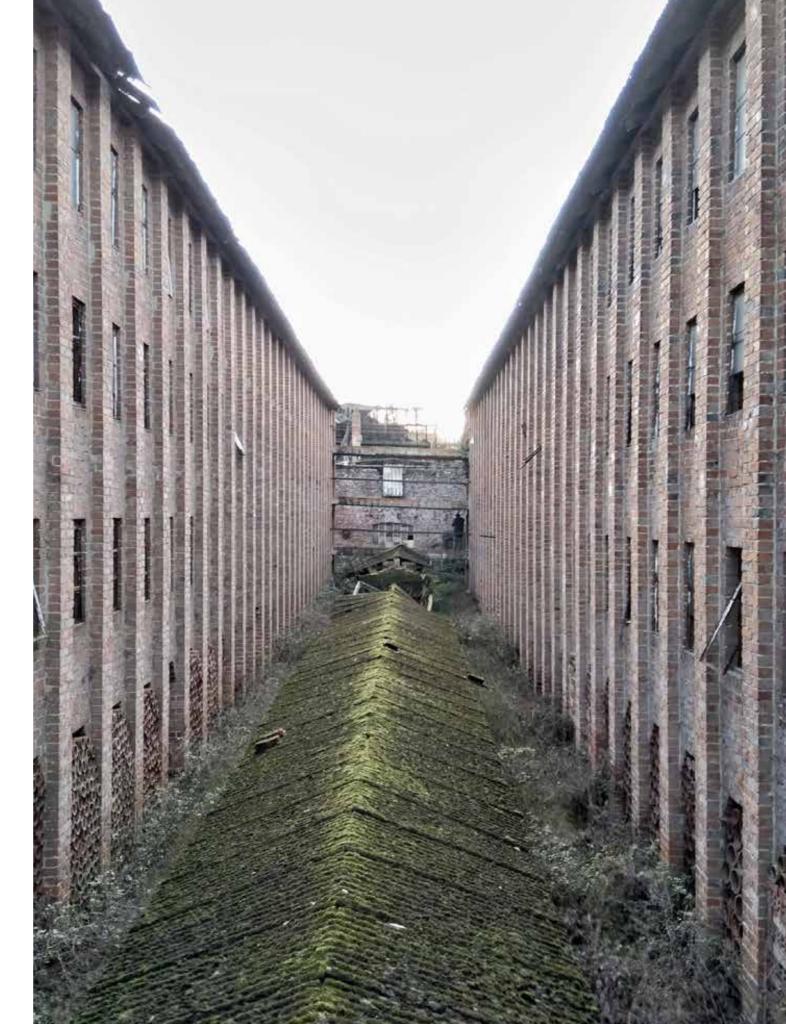
Site Analyse - Hoffman Kiln



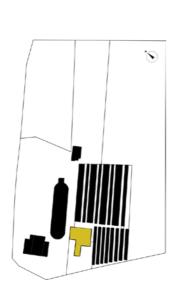


Site Analyse - Droogloodsen



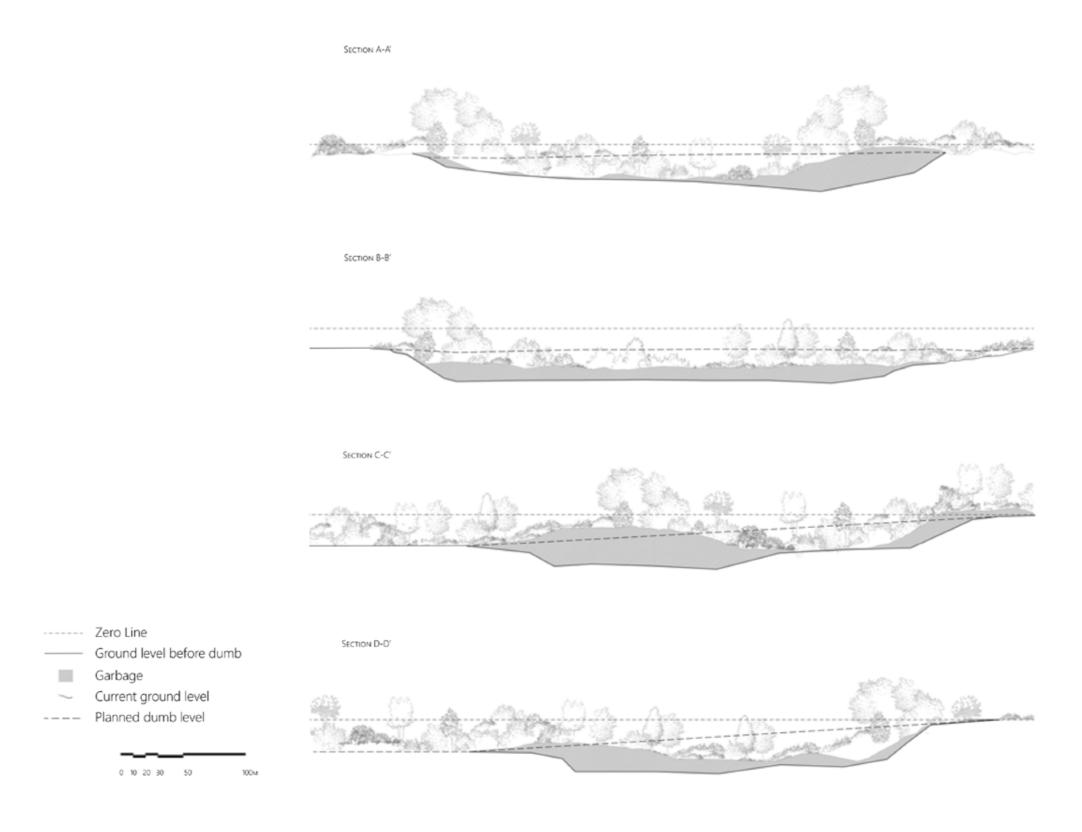


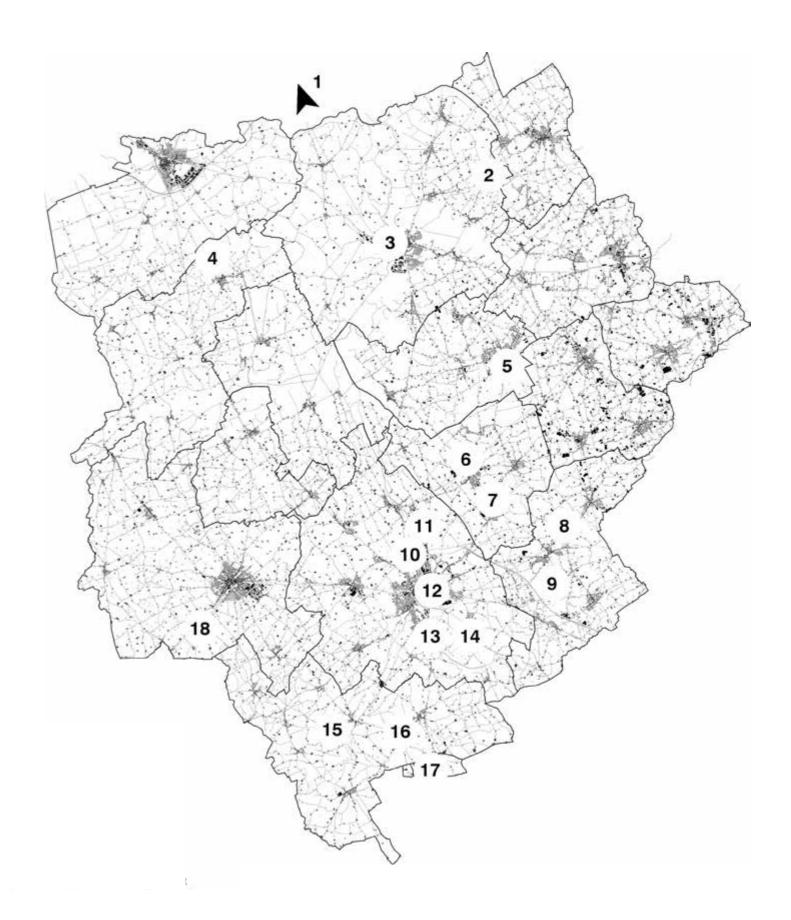
Site Analyse - Productie Gebouw



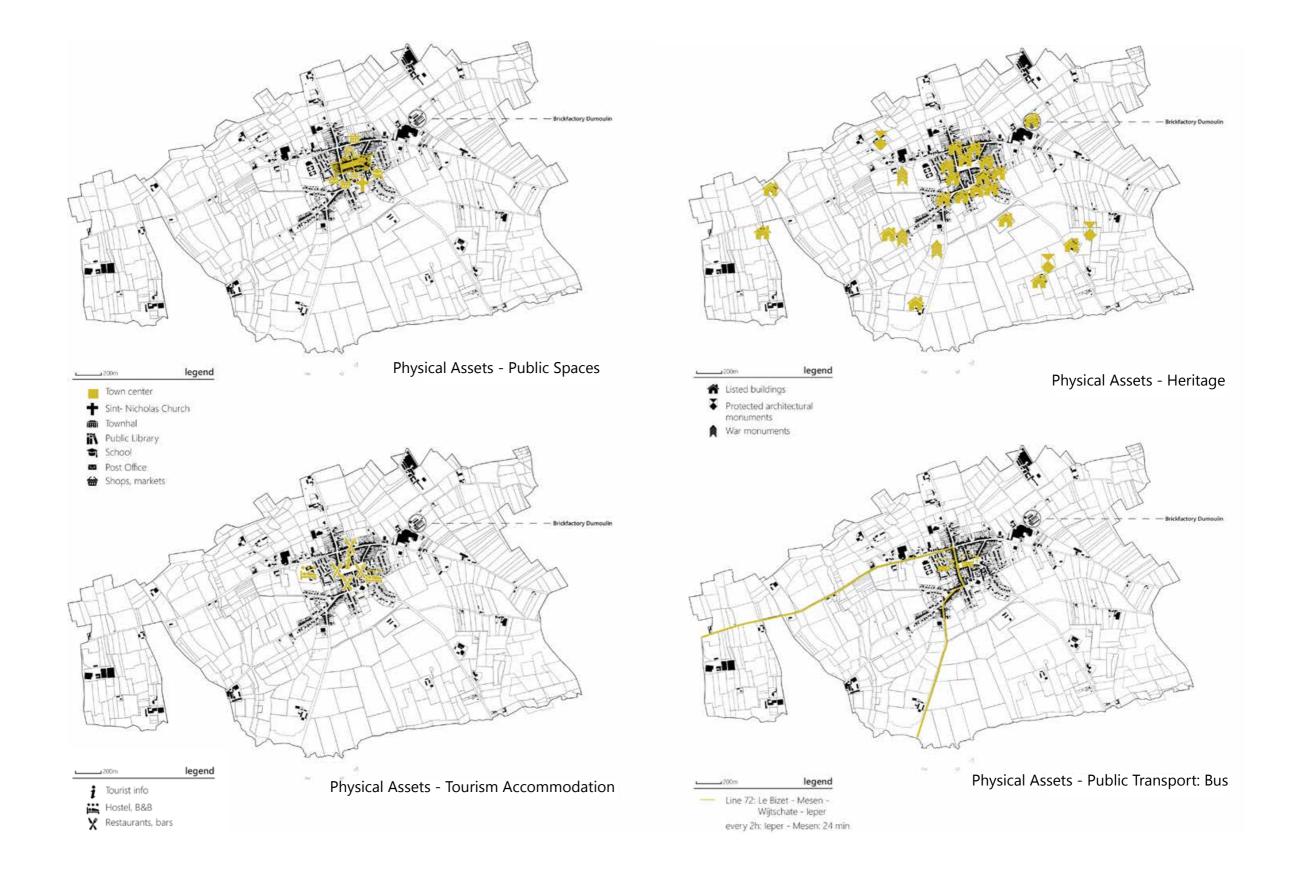


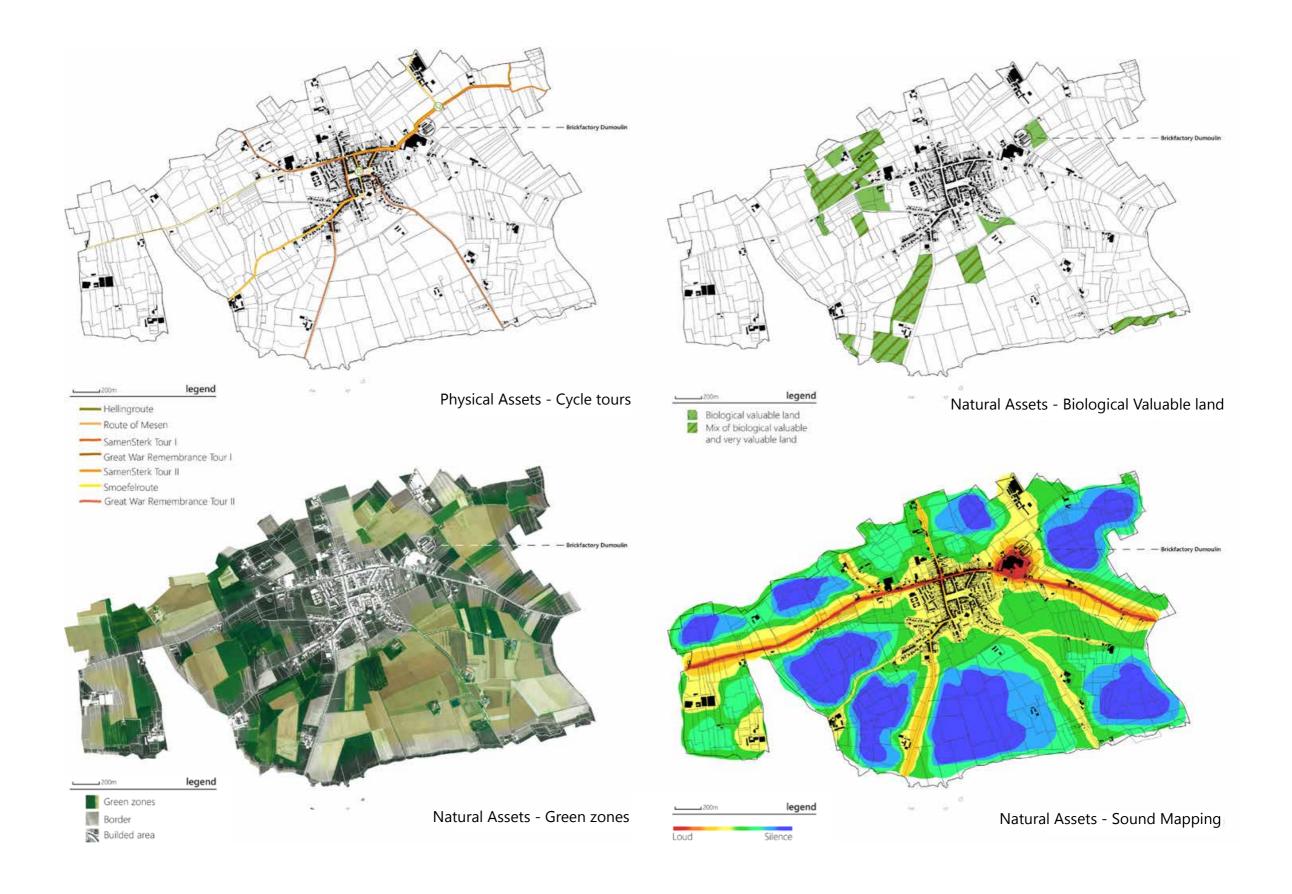
Site Analyse - Kleiput









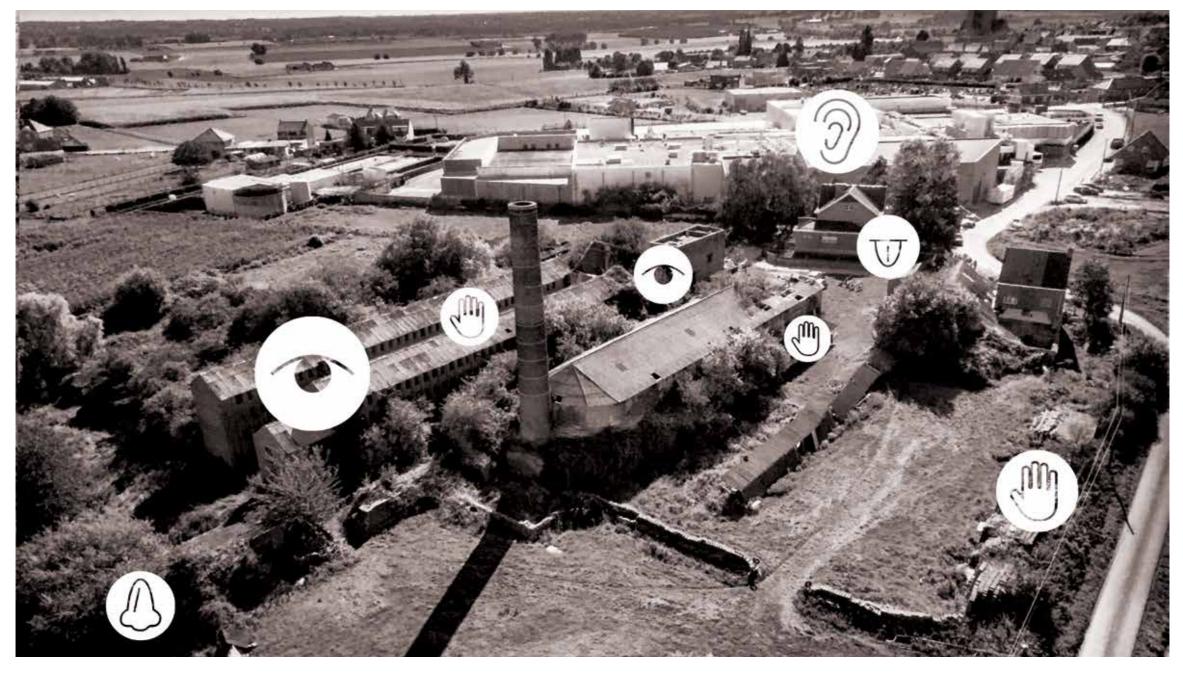




Stedelijke Analyse - Herkenningspunten







legend







Touc



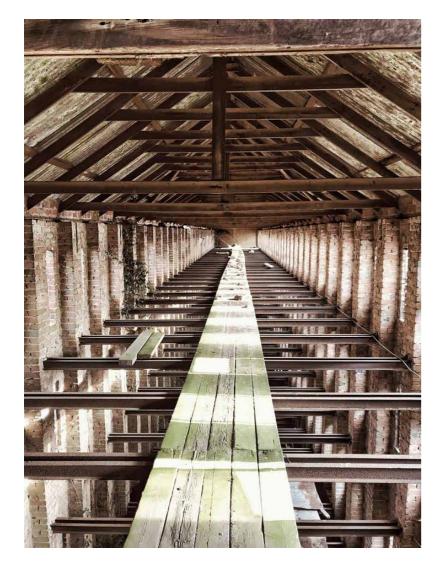
Sigl

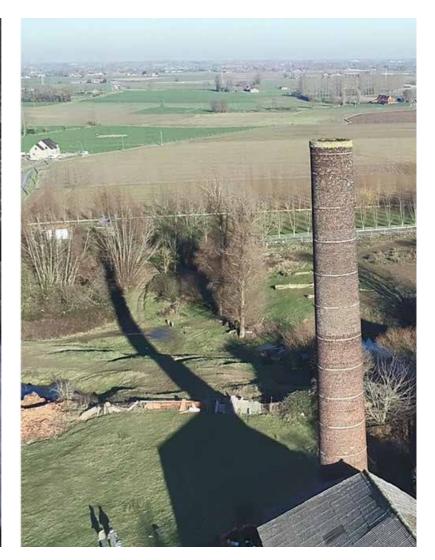
Hearing

Waardebepaling - Nara Grid

Aspects Dimensions	Artistic	Historic	Social	Scientific
Form + Design	of brick production. Architectural quality :	Hoffman Kiln - Testimony of more advanced method of brick baking. The factory complex was established on top of the existing German bunker	-	Hoffman Kiln - elliptical use of typology catalysed the production of bricks in a more continuous way drying buildings, in which every floor is continuous and long enough, it's a typical characteristic of industrial architecture
Materials + Substance	made in the factory. The integration of steel and concrete highlights the industrial character of the	Materials for instance steel and the rails from the German frontlines left from the first World War, are reused and integrated within the functioning of the factory complex as well as building parts.	-	The clay was locally extracted. Consequently the bricks produced in that area have their unique composition of ingredients (e.g. unique colour)
Use + Function	to dry brick by air flow	The brick factory was inspired to bring the agriculture back to the area by draining the flooded agriculture lands as welll as rebuilding the city of Mesen	Provision of jobs for the people after WW1 to uplift the area.	Production of their own variety of products
Techniques + Traditions + Workmenship	-	-		More advanced and contemporary process of brick production (iron casts etc)The use of Ruston Engine as an initiator for the whole production process.
Location + Setting	Commemorative monuments from the world wars are located around the site	The brick factory is located in Messines/Mesen close to the Wallonia border where one of the most important battles of the first World War (Battle of Messines) took place. The landscape is listed because of its importance in World War 1.	As the factory was providing job opportunities to people after the Great War, there were many people relocated from Langemark to Mesen. It's location is directly linked with the re-construction of the town of Messines after it's destruction in WWI.	-
Spirit + Feeling	Parts of the machinery used to produce bricks still exist in the site as well as the products (bricks) which strongly preserve the whole perception of the factory functioning and the industrial culture.	The essence and traces of the war are still evident on the site.	The factory is owned by the Dumoulin family, one of the most historic families in Brick construction in Flanders.	-

Waardebepaling - Focus





Artistiek - Vorm en Ontwerp

Form-Follows-Function Architecturale Kwaliteit

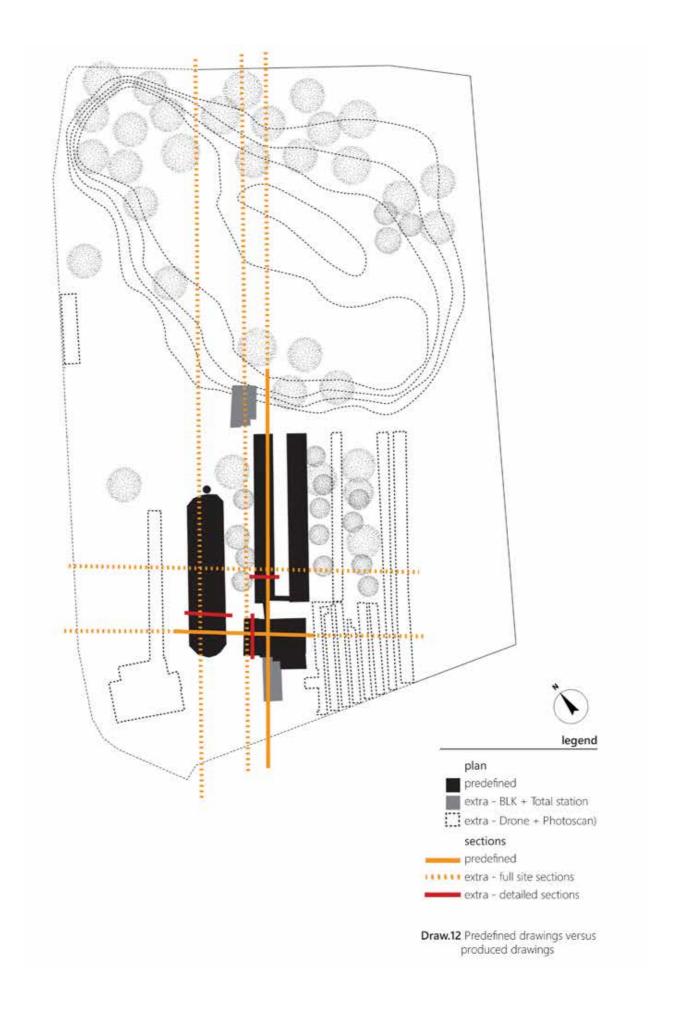
Vakmanschap

Technieken en Tradities

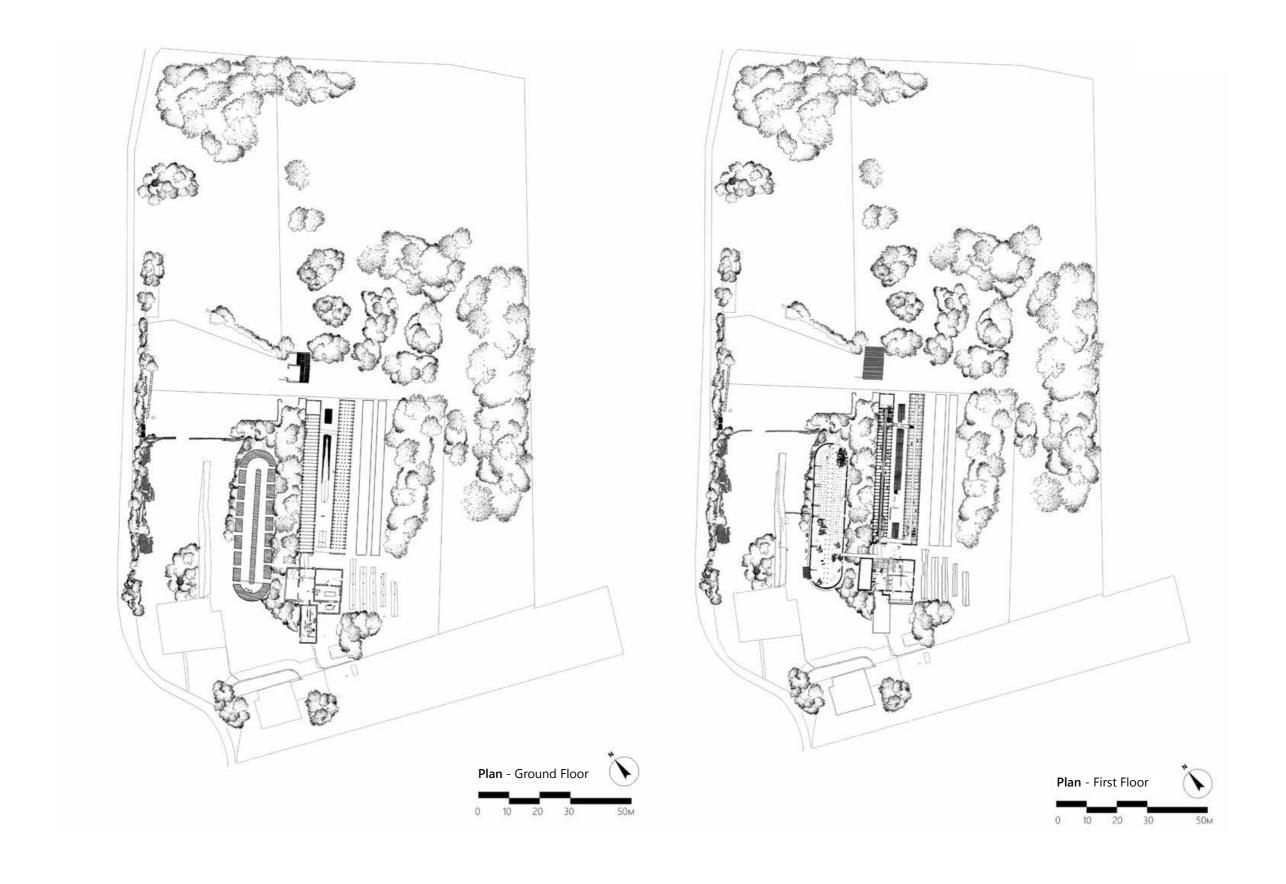
Historisch - Locatie en Setting

WO Slagvelden

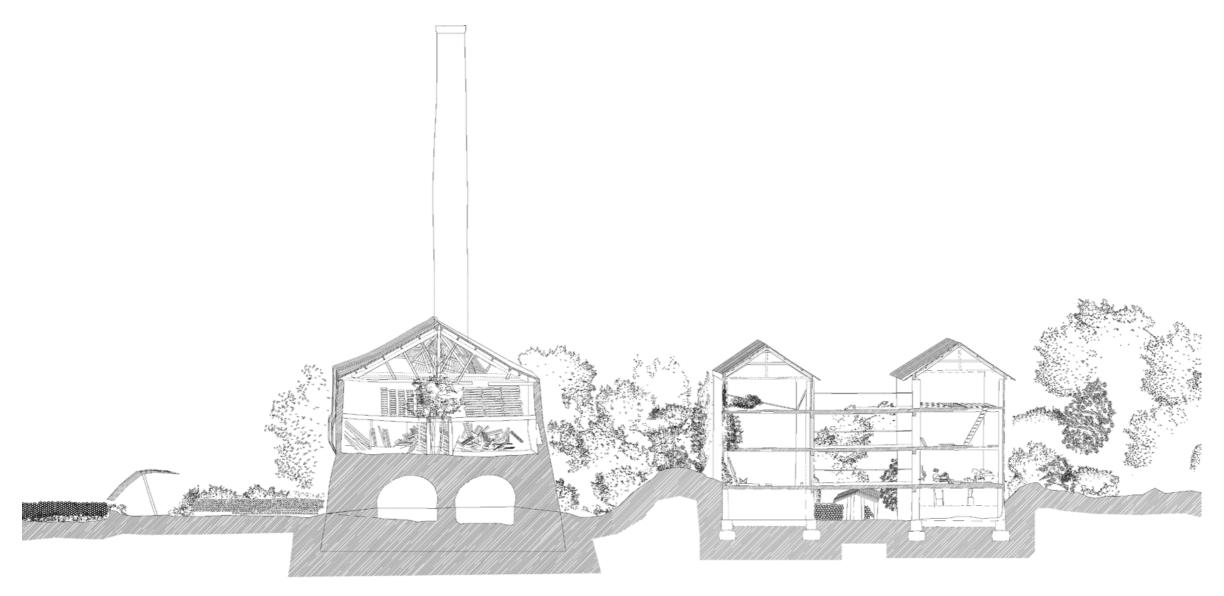
Opmeting - Doelen

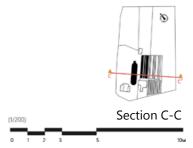


Opmeting - Plannen

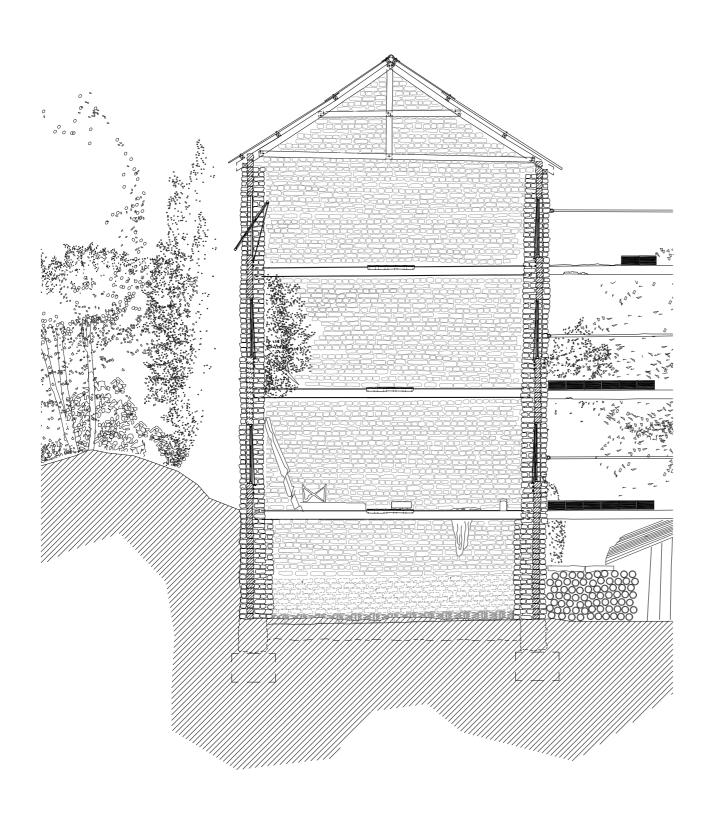


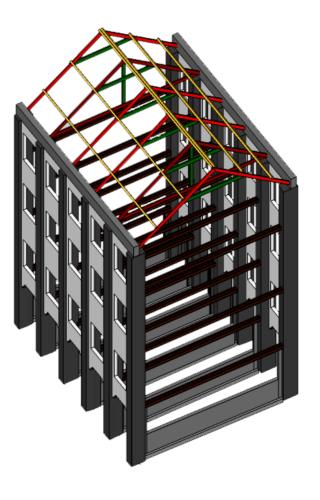
Opmeting - Snede



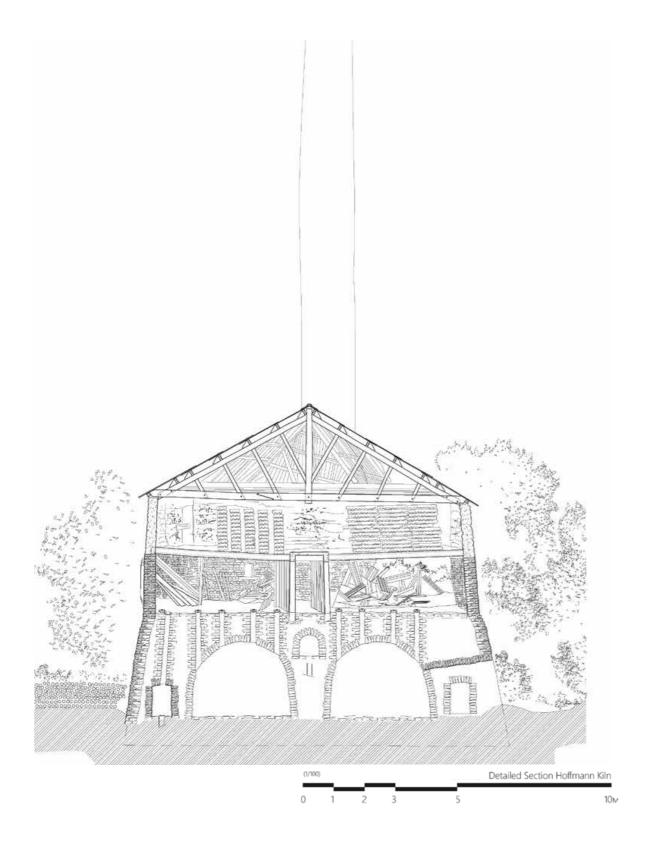


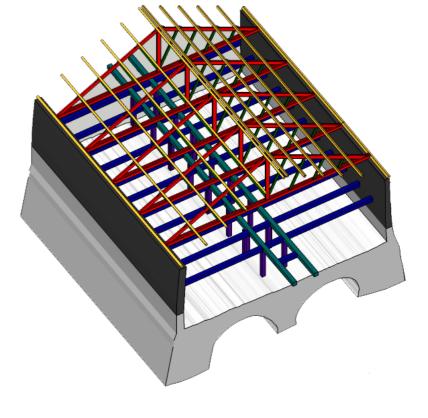
Analyse - Constructie



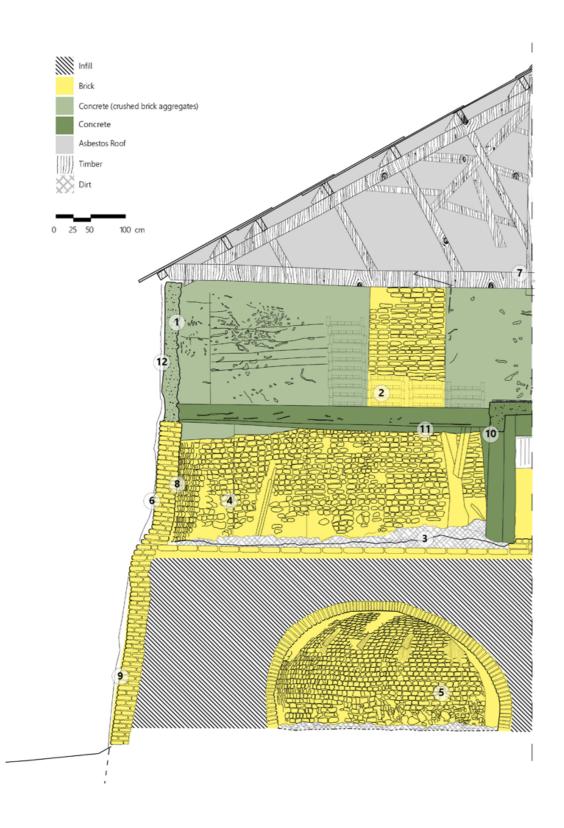


Analyse - Constructie





Analyse - Materialisatie





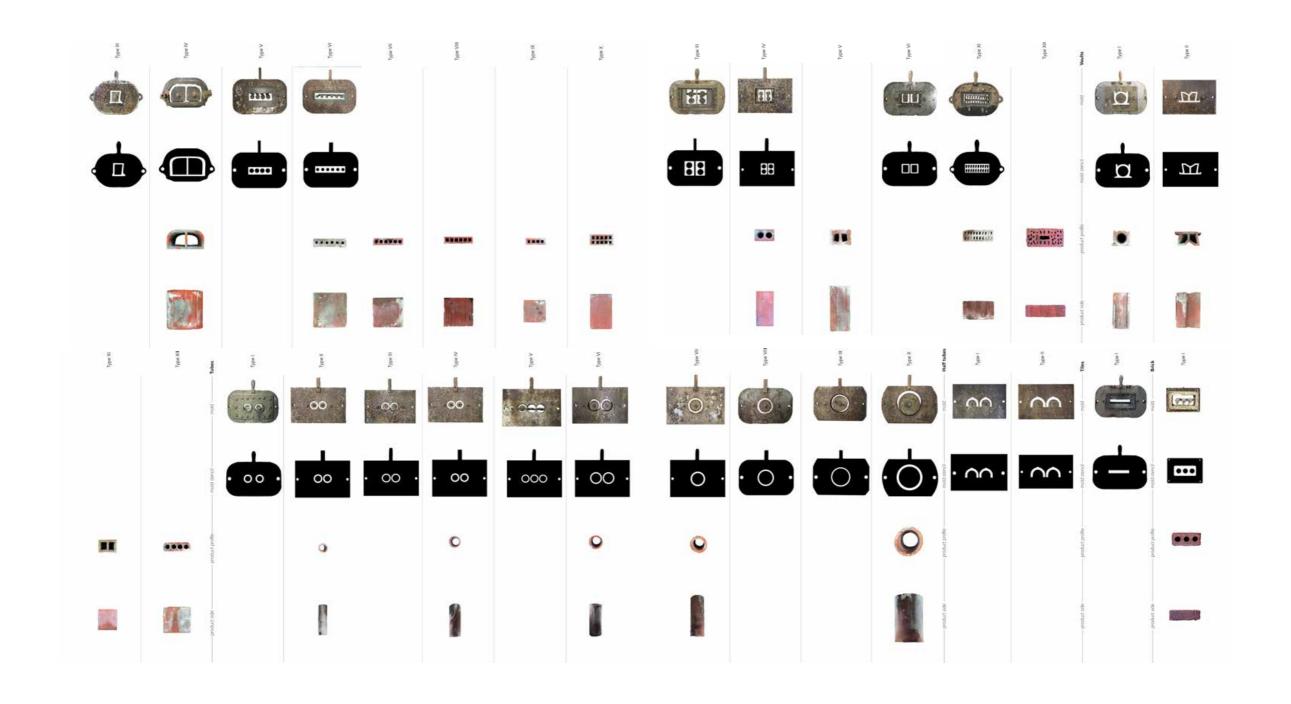
Analyse - Pathologieën



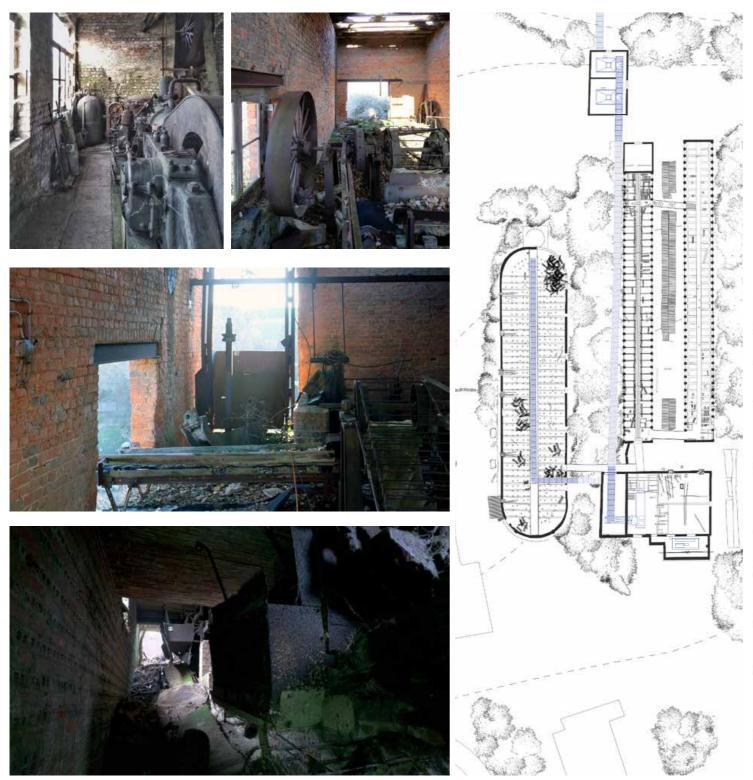
BIOLOGICAL GROWTH Algae Lichen Higher Plants SURFACE CHANGE Deposit / Efflorescence Deposit / Crypto florescence Chromatic Alteration / Moist Spot Chromatic Alteration / Staining DISINTEGRATION Detachment / Loss of adhesion Loss of Cohesion / Crumbling Loss of Cohesion / Powdering Layering / Spalling Layering / Exfolition BIOLOGICAL GROWTH Lichen Moss Higher Plants SURFACE CHANGE Chromatic Alteration / Staining Chromatic Alteration / Moist Spot Deposit / Efflorescence Deposit / Crypto florescence DISINTEGRATION Layering / Exfolition Detachment / Loss of adhesion Loss of Cohesion / Sanding Loss of Cohesion / Powdering Loss of Cohesion / Voids Loss of Cohesion / Crumbling DAMAGE TO REINFORCEMENT Corrosion / Rust Layers Corrosion / Pitting Corrosion / Loss of rebar diameter DAMAGE TO CONCRETE Disintegration / Layering / Spalling Cracks / Non-connected cracks Surface Change / Deposit / Efflorescence Surface Change / Deposit / Staining Superficial Irregularities / Inhomogenity Surperficial Irregularities / Voids-Rockpockets Chromatic Alteration / Moist Spot Biological Growth / Algae Biological Growth / Moss Deformation / Displacement

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Inventarisatie - Mallen & Producten

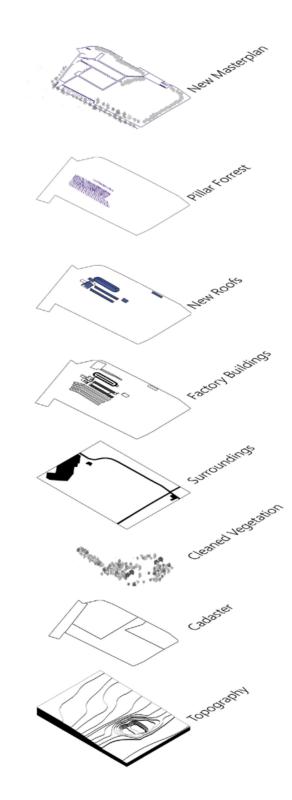


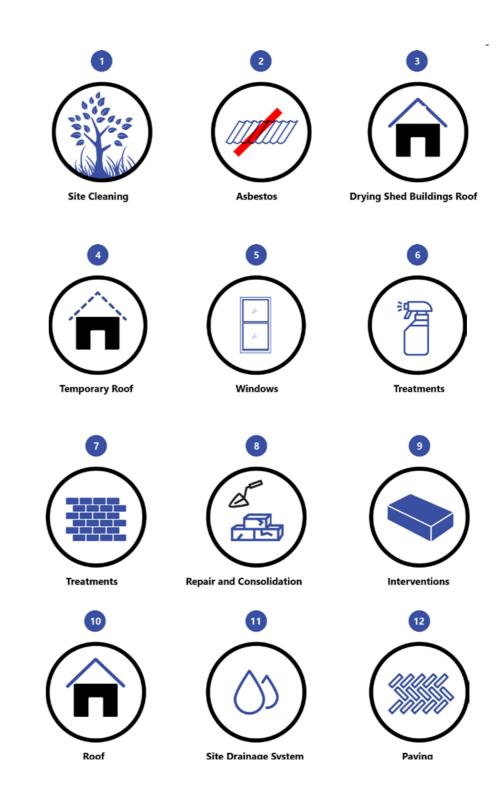
Inventarisatie - Machines

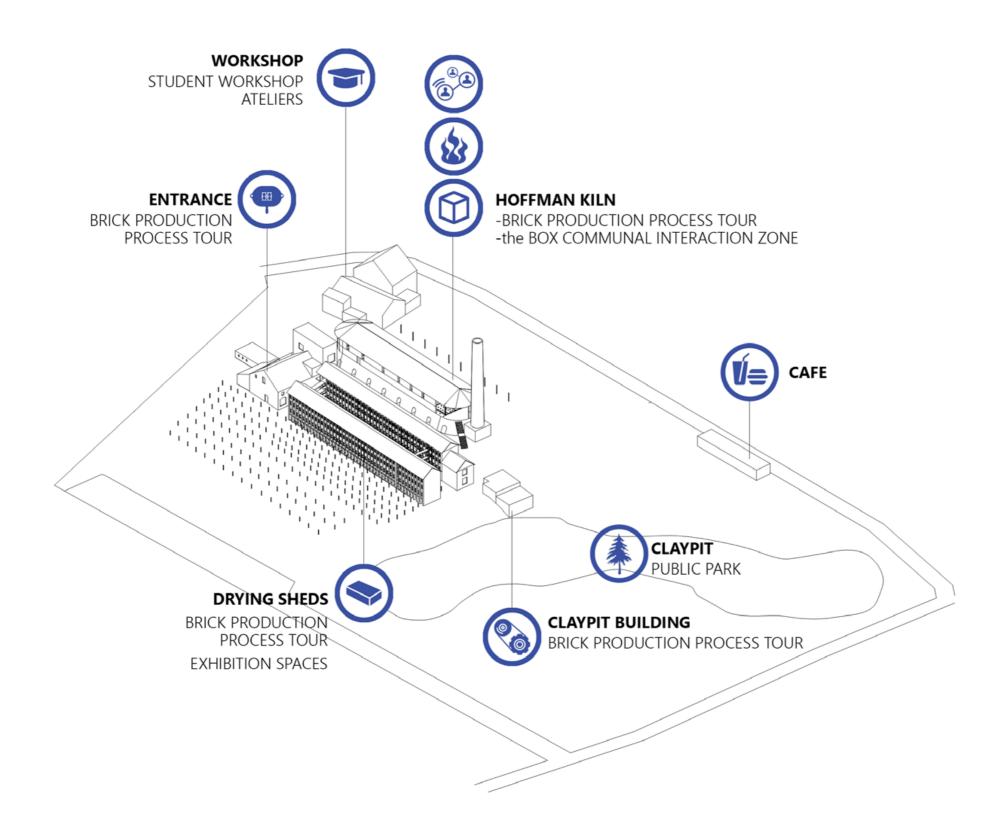


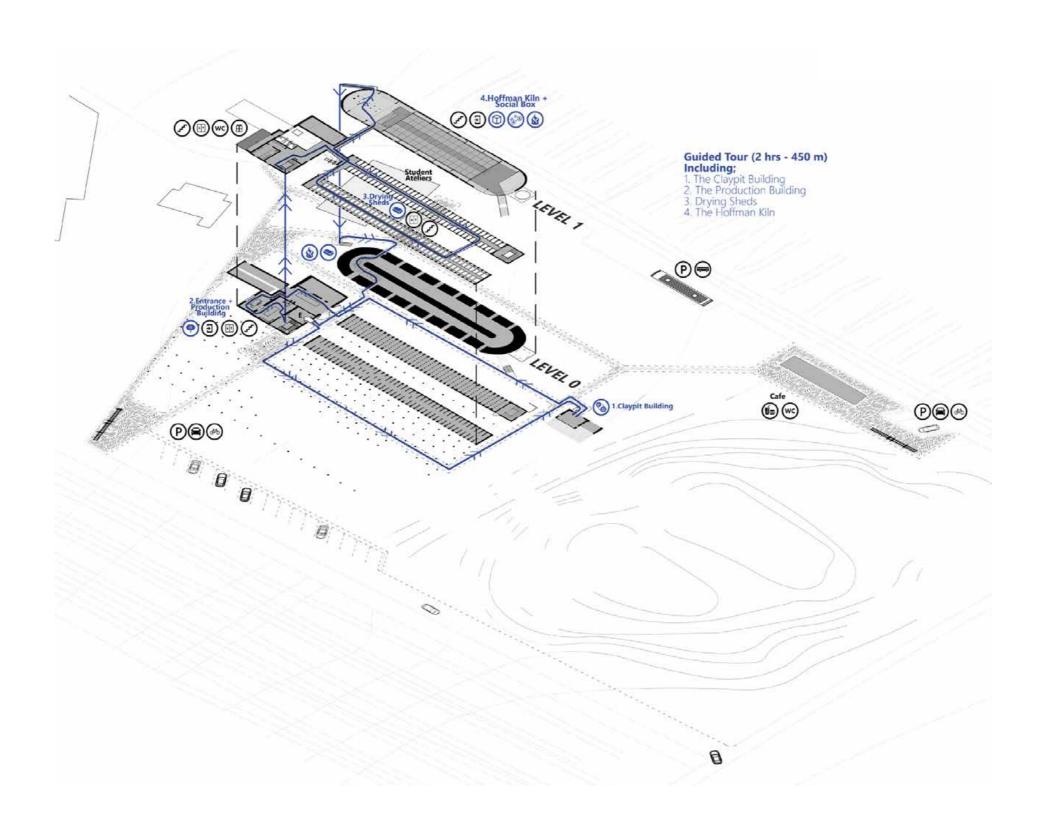
	Machine	Brand	runction	Date	Condition
L.	Clay excavator	self-made	Digging Clay in claypit		-unknown-
2.	Mono cylinder Diesel Engine	Ruston Hor. Oil Engine 10hr-Model 364 283	Driving all machines of the factory	1954	Present on original location
3.	Clay mixing machine I	SKF SN509	Mixing clay with lean earth, ration 3 to 1		Present on original location
	- Connected electrical engine	CET	Separate drive for Clay Mixing Machine I		Present on original location
4.	Clay mixing machine II	SKF SN509	Mixing clay with lean earth, ration 3 to 1	T 50 70	Present on original location
	- Connected electrical engine	AEG	Separate drive for Clay Mixing Machine II		Present on original location
	Kneading Tub		Kneading the day mixture		Disassembled on site
5.	Extruder Samic		Extruding day in the shape of bricks or tubes (adjustment of the nozzle)		Transferred to Langemark factory
	Cutting Machine	Hansen La Mécanique Générale N.V	Cutting the formed day coming out of extruder in the correct length of bricks and tubes		Transferred to Langemark factory
i,	Conveyor Belt		fransporting day and products over the site. - From claypit to mix building From mix building to day tower From production space to oven Over length of the oven.		Present on original location, partly collapsed.
)	Elevators	self-made	Bringing products up in dryingsheds for drying		parts present on site
0.	. Transport Lorry	self-made	transport of finished products		present on site

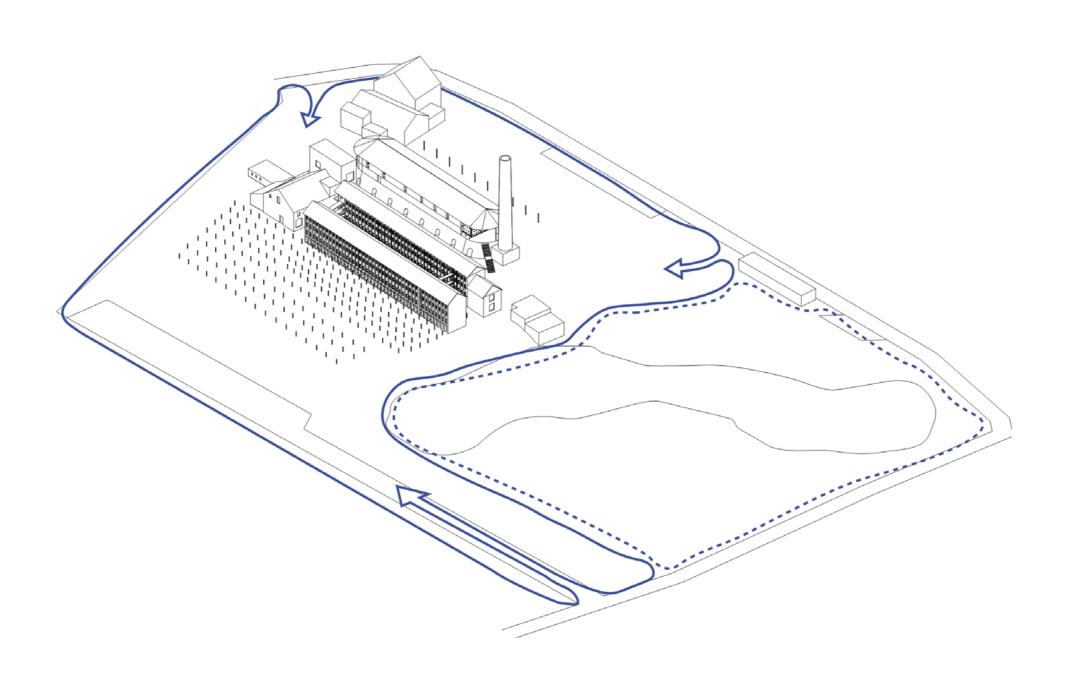
Masterplan - Globale aanpak

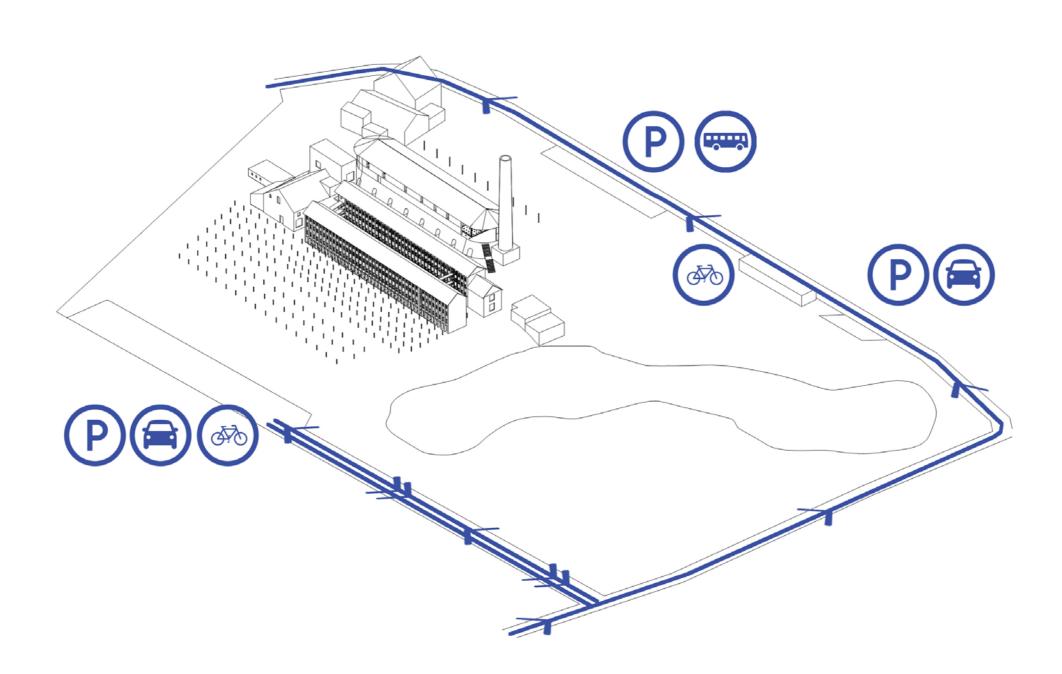


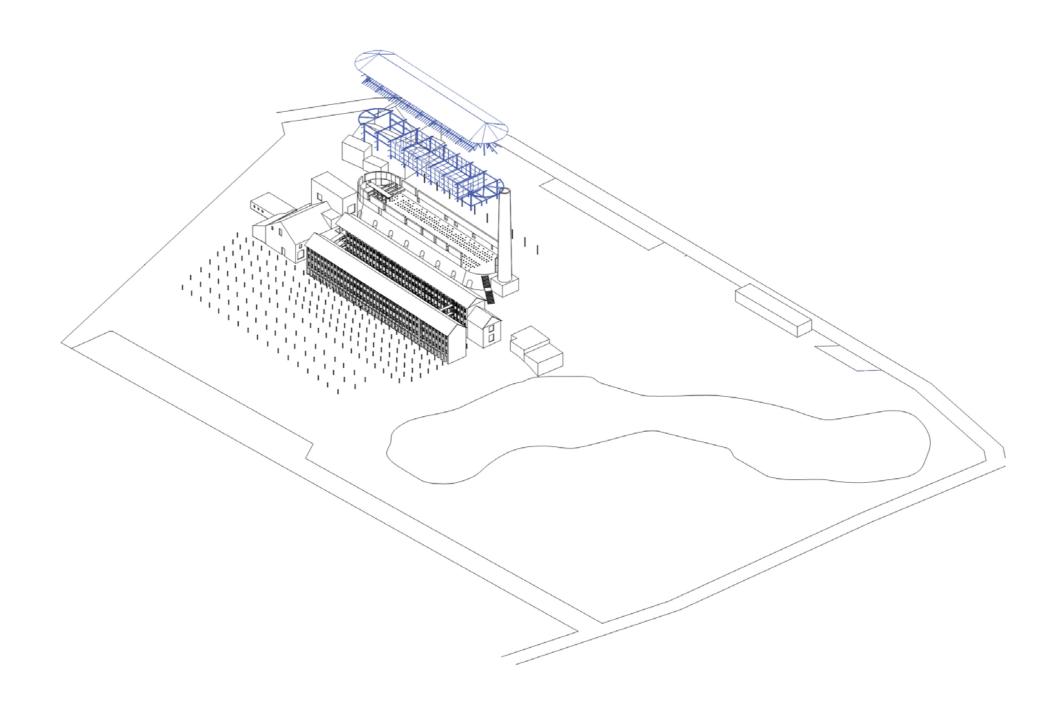




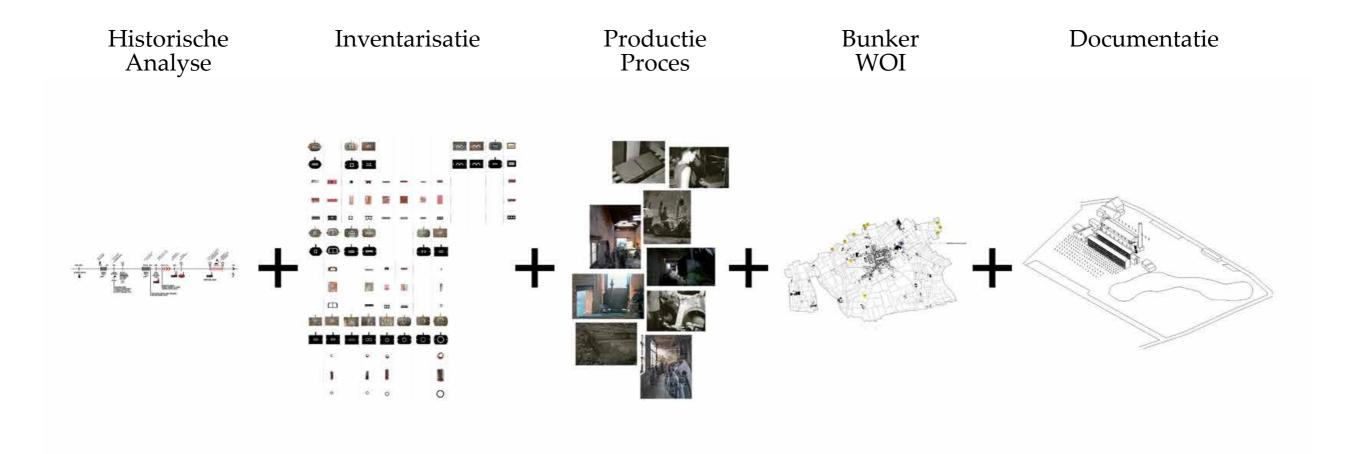








Opdracht - Resultaat



Masterplan

Bescherming + Toekomstvisie

Einde

Bedankt voor uw aandacht