

# Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



## Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners ([Examencommissie-BK@tudelft.nl](mailto:Examencommissie-BK@tudelft.nl)), Mentors and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

<b>Personal information</b>	
Name	Simme Bruinsma
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<b>Studio</b>	
Name / Theme	Heritage & Architecture
Teachers / tutors	Alexander de Ridder, Sara Stroux, Frank Koopman
Argumentation of choice of the studio	Nowadays, repurposing buildings is widely considered to be the right approach as it offers a lot of advantages over demolition. For me, when designing architectural objects, existing elements have always been a source of inspiration. That is why I see it as an exiting challenge to redesign and repurpose buildings that have lost their original function. Within the studio of heritage I am convinced that I will gain the knowledge and have the pleasure to find new ways of intervening in the layered context of existing buildings within the city.

<b>Graduation project</b>	
Title of the graduation project	Work Title: Maaksilo
<b>Goal</b>	
Location:	Rotterdam South
The posed problem,	Rapid population growth has lead to an immense worldwide urbanization, which resulted in a number of transformations. Industrial sites that were originally located outside of the city were suddenly 'misplaced' as the city grew around them. Not only did the city become more fragmented but also the contrast between city and landscape

	<p>increased. In Rotterdam Zuid, like in many other 20<sup>th</sup> century industrial sites, this disappearing industry resulted in vacant buildings and caused a hole in the local job market.</p> <p>The Maassilo building (an old grain silo) in Rotterdam Zuid is such a building that today is eagerly waiting to be redesigned.</p>
<p>research questions and</p>	<p>How can we redevelop the Maassilo Complex in Rotterdam Zuid to become a public space for the people of Rotterdam while at the same time remaining its original character?</p> <p><b>Historical</b></p> <p>What is the story of the Maassilo complex, what are its cultural values and what defines its character?</p> <p><b>Program</b></p> <p>What kind of production industry and public function can be combined in a highly specific building like the Maassilo?</p> <p><b>Time-based</b></p> <p>How can we redevelop the Maassilo in such a way that it can support a process of continuous transformation over time?</p>
<p>design assignment in which these result.</p>	<p>The objective of this graduation project is to redesign the Maassilo complex in Rotterdam Zuid into a public place of production. One that generates jobs and is a place to go to and to be proud of for the people of Rotterdam. This requires a thought through approach that addresses all scale levels, from the territory to a human perspective.</p>

## **Process**

### **Method description**

The studio is set up as a research design studio. The first part mainly consists of research while the second combines research and design in a process of constant reflection.

The research part can roughly be divided in three parts:

1. An analysis on Architecture, Cultural value and building technology
2. A research that focuses on a suitable program for the building
3. A thematic research on the process of continues transformation over time.

Factual knowledge will be gained through, literature, video and archival reviews. This will be supported by a set of case studies and field research.

### **Literature research / Media research / Archival research**

The historical background and current state of the Maassilo will be researched through the use of Articles, Books, Magazines, previous reports, videos and archival documents. Literature and media will also support both the selection of a program and the time-based approach.

### **Field research**

Throughout the research the Maassilo and its context will also be analysed by field trips to the site. The site will be studied through photography, drawing and physical observations (sight, sound, feeling, smell, observing movement and use of space).

## **Literature and general practical preference**

### **Research on the Maassilo complex (cultural value, architectural, building technology & surroundings)**

Brand, S. (1994) how buildings learn: what happens after they're built. penguin group usa: new york.

Brinkman, J.a. (1931) de nieuwe graansilo aan de maashaven voor de n.v. graansilo maatschappij te rotterdam. de ingenieur; b. bouw- en Waterbouw-kunde, 32.

Riegl, A. (1903) The modern Cult of monuments: its essence and its development. in stanley-price, n., kirby Talley jr., m. & vaccaro, a.m. (1996): historical and philosophical issues in the Conservation of Cultural heritage. getty Conservation institute: los angeles.

stadsarchief rotterdam (n.d.) beeld en geluid. (image) retrieved from <http://stadsarchief.rotterdam.nl/collectie/beeld- en-geluid> on 22 march 2017.

Transformers (2008), Cultuurhistorische verkenning graansilo maashaven. rotterdam.

### **Research on the program**

Aureli, P.V (2014). Living/Working: How to live together in Merihaka DOGMA

Brugmans, G., & Breukelman, J. (2016). *IABR-2016 : The next economy*. Rotterdam: Internationale Architectuur Biennale Rotterdam.

Bucci, F. (1993). Albert Kahn. New York: Princeton Architectural Press.

Rappaport, N. (2015). *Vertical urban factory*. New York: Actar.

Rifkin, J. (2011). The third industrial revolution. New York: Palgrave Macmillan.

Sennett, R. (2008). The craftsman. New Haven: Yale University Press.

Strien, J., & Brugmans, G. (Eds.). (2014). *Urban by nature : IABR 2014*. Rotterdam: Internationale Architectuur Biennale Rotterdam.

### **General practical preference**

Avermaete, Tom, Klaske Havik, Hans Teerds, Nancy Meijsmans (eds.) OASE #80: On Territories. (Rotterdam: NAI Publishers, 2009).

Bergevoet, T. & van Tuijl, M. (2016) The Flexible City: Sustainable Solutions for a Europe in Transition (Rotterdam: NAI Publishers, 2016)

Pallasmaa, J. (2016). Inhabiting time, John Wiley & Sons Ltd.

Remoy, H. (2012). *Van leegstand naar leefbaar: De tijdelijke transformatie van leegstaande gebouwen*. Delft Digital Press, 2012-10-31.

Quist, W., & Stroux, S. (Eds.). (2012). *Temp.mo.mo tijdelijk gebruik van modern erfgoed: Bedreiging of zegen?* Delft: Delft Digital Press.

## **Reflection**

### **Relevance**

This project can widely be considered relevant as it addresses both cultural values on the building scale as contemporary issues that are related to a larger territory.

The Maassilo Complex is one of the most iconic industrial buildings in the harbour of Rotterdam that still exists today. The rare totality of the complex gives an impression

of the previous activities that took place in the harbor. Besides its historical value the building should also be cherished for its aesthetic value.

As of the context, ever since the industry left, Rotterdam Zuid has been known as one of the worst neighborhoods in the Netherlands. Gentrification, criminality and unemployment are a big issue in the neighboring districts. As this project seeks to find new ways of bringing living and working together it touches upon the issue of unemployment.

## **Time planning**

### **Week 1-3**

General organization, visit different possible sites and make a final decision on which building to redesign. Along side, a group Analysis will be carried out and finished on the last day of week 3.

Every Thursday morning, a research methods course will be followed to prepare a position paper.

### **Week 4-8**

During this week another site visit to the chosen building will be planned. A thorough analysis concerning cultural value, architecture and building technology will be made in groups. The last 2 days of week 8 will give time to personally interpret all the obtained information and prepare for the p1 presentation.

Every Thursday morning, a research methods course will be followed to prepare a position paper.

### **Week 9**

P1 Presentation, taking time to reflect on feedback and reorganize to continue.

Deadline first draft, Position Paper Thursday 13-04-2017

### **Week10**

After feedback on the group research final changes can be made to the group analysis booklet.

### **Week 11-16**

These weeks will be used to further investigate on a suitable program for the building and address the thematic research on time-based architecture. One day a week will

be used to start thinking in design solutions, working on a 1:10000, 1:2000, 1:500 and 1:200 scale.

Wednesday 25-05-2017 (week 15) is the deadline for the final position paper.

### **Week 17-18**

The first Tuesday will be a Pitch presentation. In two minutes each student will present their project to fellow students. This is to get an idea what everybody is working on and to make a first start towards the P2 presentation. The rest of these weeks will focus on finalizing the research. Two days a week will be used to work on a design, addressing a 1:10000, 1:2000, 1:500 and 1:200 scales. Also a program of requirements will be finalized in these two weeks.

Finally the last two days will be taken to prepare for the P2 Presentation.

### **Week 19**

P2 Presentation, after the presentation some time is scheduled to reflect on all the previous work and properly document all the information before the summer break.

### **Week 20-21**

Possible retakes

//////// SUMMER BREAK //////////

### **Week 22-26**

These weeks will be focused on finalizing the research phase and starting the research by design phase. At the end of week 25 final conclusions on the research should be made concrete and translated into design solutions. Two days a week will be used to work on a design, addressing a 1:200, 1:100, 1:50 & 1:20 scales.

Preparing P3 presentation

### **Week 27**

P3 Presentation, critical reflection on the work and feedback.

### **Week 28-35**

This period will involve designing through drawing (technical and by hand), model making and constantly critically reflecting on the produced work. The focus will lie on main aspect that are mentioned during the feedback on the P3. Five days a week will be used to work on a design, addressing a 1:100, 1:50, 1:20, 1:5 & 1:1 scales. It will require critical decision making after each exercise.

Preparing P4 presentation

**Week 35**

P4 Presentation, reflection and organization.

**Week 36-39**

Reflecting on P4, then further developing missing aspects and finalizing the documentation including booklet(s), paper(s) and a final model.

Preparing P5 presentation

**Week 40**

P5 presentation