

Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



Graduation Plan: All tracks

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

Personal information	
Name	Maarten Toine de Roij
Student number	4085477
Telephone number	
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Studio	
Name / Theme	Msc 3 Dwelling Studio: Dutch housing
Teachers / tutors	Pierijn van der Putt, Theo Kupers
Argumentation of choice of the studio	My demands for a graduation studio were: A down to earth, well organized studio that allowed me to design a new (not heritage) medium to large mix use building which would be a realistic design assignment. Dwelling Dutch housing fitted these demands best.

Graduation project	
Title of the graduation project	Reconnecting Kattenburg
Goal	
Location:	Kattenburg, Amsterdam, NL
The posed problem,	<p>The ambition of the city of Amsterdam is the addition of 70.000 new dwelling within the ring to counter the high pressure on the dwelling market and accommodate more people within the city. This means that the city needs to densify.</p> <p>The Oostelijke Eilanden neighbourhood is located just east of the city centre and with its low-medium density post war buildings a suitable location for densification. The neighbourhood, which is surrounded by recently redeveloped neighbourhoods, has been lacking behind compared to the surrounding city. The area is badly connected to rest of the city and within. The western tip of the neighbourhood, Kattenburg islands and its post war buildings, forms the biggest blockage to the reconnection of the neighbourhood to the city and thus its redevelopment.</p> <p>The post war based buildings at Kattenburg don't easily allow for this reconnection and therefore a strong intervention is needed to both achieve the island's reconnection and the densification needs. For a good redevelopment of this area, the qualities of these</p>

	<p>buildings should be addressed.</p> <p>The upcoming opening up of the navy Marine area and the redevelopment of Kattenburg are the missing link to development of a strong Oostelijke Eilanden neighbourhood. The masterplan assignment addresses the densification and redevelopment of the more difficult part of the Kattenbrug Island, the east with its existing post war housing estate.</p>
<p>research questions and</p>	<p>The 21st century city is a mixed one, functions are no longer clustered on one spot. This creates a more diverse and lively urban city throughout. This should be no different for future Kattenburg.</p> <p>The post war housing area should be transformed and redeveloped into a well-connected and densified neighbourhood that allows for this diversity in function. A strategy of linking similar functions in the whole neighbourhood will be used to structure neighbourhood. Different urban loops will connect these functions, that are located throughout the neighbourhood, which strengthen and enhance each of them. At building level this diversity in functions is also needed which results in the following research question:</p> <p><i>How can different functions be combined in a dwelling building in a way that they will strengthen and enhance each of them to create a stronger mixed-use-building.</i></p>
<p>design assignment in which these result.</p>	<p>The most interesting building within the masterplan is located halfway at the Kattenburgerstraat and has the size of two standard Kattenburg Loop masterplan blocks.</p> <p>The building is bordered by the park loop on the north and west side, and has therefore a strong connection to the green within the masterplan. On its east side it is bordered by the local facilities loop and has here an emphasis on local functions, shops and boutiques. West of the building lies the business loop, which focuses on workspace.</p> <p>This will result in an assignment for a mixed use building that focuses by combining functions to create added value. By connecting/combining different functions in one building to strengthen and enhance each of them.</p>

[This should be formulated in such a way that the graduation project can answer these questions.
The definition of the problem has to be significant to a clearly defined area of research and design.]

Process

Method description

A strong research will be conducted into the site and its connection to the city

Creating a strategy for redeveloping the whole neighbourhood to structure the plan of Kattenburg.

Case studies and examples will allow for exploration of possibilities of mixed use buildings

Using concepts to create a rational and radical ambitious framework for mixed use buildings

Exploration of new typological designs to add quality

Literature and general practical preference

Research on 'The public space of the Brunswick Centre' conducted by Niels Buring and myself

Research of our project group into the Kattenburg site and surroundings

Gemeente Amsterdam (2011), *Structuurvisie 2040 Economisch sterk en duurzaam*

David Levitt, Levitt Bernstein (2010), *The Housing Design Handbook*

Gemeente Amsterdam (2011), *Visie oostelijke eilanden*

Joseph. Fenton (1985), *Hybrid buildings*

Aurora Fernández Per, Javier Mozas, Javier Arpa (2011), *This is Hybrid: An Analysis of Mixed-use Buildings* by A+t

Georges. Binder (2002), *Sky high living : contemporary high-rise apartment and mixed-use buildings*

Reflection

Relevance

This project gives insights on how a higher standard of liveability in a neighbourhood can be created by enforcing and creating stronger regional and city connections. It showcases how an integration of multiple functions in a highly urban dwelling neighbourhood and mixed use buildings can be achieved. The Loops strategy both gives structure and create interactions between residents of the neighbourhood at the point where the loops intersect. The mixed use building will shows how a place is provided where people and functions don't exists apart from each other but enforces and strengthens each of them.

Time planning

Week:

2.10	p2	final masterplan
3.6-3.7	preparation p3	
3.7	p3	conceptual building design
4.4-4.5	preparation p4	
4.5	p4	final building design
4.6-4.11	preparation p5	revaluating design
4.11	p5	preparation p4