

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), 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:

Personal information	
Name	Arda Ertan Yildiz
Student number	4938534

Studio		
Name / Theme	Complex Projects	
Main mentor	Manuela Triggianese	Design Mentor
Second mentor	Hubert van der Mel	Building Technologies
Third mentor	Eline Blom	Design Mentor
Argumentation of choice of the studio	Complex Projects	

Graduation project	
Title of the graduation project	Ambidextrous Logistics
Goal	
Location:	Rotterdam Zuid, Netherlands
The posed problem,	As the port activities in Rotterdam moved to the West, Maashaven port left with a threshold splitting sea from the city. There is the immense potential of integrating goods and people logistics to utilizing inland waterways which will be developed to major mobility node.
research questions and	How can this area serve as a hub to improve inland shipping and transportation, incorporating additional programs which change the image of port for people of Rotterdam? - How can the port be discovered by the city as a part of the urban landscape? - How can the city be rediscovered by the port as a potential centre for logistic organizations? - How can port re-integrated to the city to support the future needs of logistics?
design assignment in which these result.	The project speculates on redeveloping the waterfront with distribution center and terminal which incorporates certain logistics flows such as goods and people to utilize inland waterways.

Process

Method description

As a methodology historical relationship between the port and the city is investigated and the specific case of Rotterdam studied. Relevant references are studied to understand how certain logistics flows operated. Plans of institutional stakeholders for transport over water researched and quantitative data is used to understand the potential of inland waterways. Data is compared with other corresponding data sources to define and scale the problem better. Literature analysis support how warehouse and terminal typologies evolve and developed and speculated on how the typologies will evolve.

Literature and general practical preference

- 1) Blom, I. (1975) Rotterdam, De Havens
- 2) Wijnands, J., Aarsbergen A. (2010) Rotterdam world class port
- 3) Hoyle, B.S., (1998), 'The redevelopment of derelict port areas'. The Dock & Harbour Authority, Vol. 79, No. 887, 46-49
- 4) Young, L. (2019), Machine Landscapes, Architecture of the Post-Anthropocene
- 5) Pensieri, P. E, (1969) Superstudio Domus 479 38- [43].
- 6) Frazer to C. Price, (1979) (Letter mentioning Second thoughts but using the same classification system as before), Generator document folio DR1995:0280:65 5/5, Cedric Price Archives (Montreal: Canadian Centre for Architecture).
- 7) Economic Development Board Rotterdam (2008) Snel Weg Over De Maas: Personenvervoer over water in de Rotterdamse Regio
- 8) Aaarts, M, Port-city development in Rotterdam: a true love story
- 9) Hein, C., Jacobs W. (2013) Port cityscapes: Dynamic perspectives on the port-city-waterfront interface
- 10) van den Bosch, F. A. J. , (2011) The strategic value of the Port of Rotterdam for the international competitiveness of the Netherlands, Erasmus University.
- 11) Rienstra et al., (1995), Options for Sustainable Passenger Transport, Vrije Universiteit Amsterdam
- 12) Gemeente Rotterdam, 2007, Stadsvisie Rotterdam; Ruimtelijke ontwikkelingsstrategie 2030
- 13) Port of Rotterdam. (2016) Five challenges on route to the port of 2050.
- 14) Mulder, R. (2014) Warehouse and Distribution Center

Reflection

Relation

Ideas can appear in different geographies at different time spectrums. They can migrate through the movement of people and migrated idea manifest itself affecting it's surrounding in many ways such as economically, socially or culturally. The idea also gets affected sometimes completely transformed into a new entity. Such incursions create new interpretations of the already existed ideas. The thesis aims to investigate the different flows of logistics particularly goods and people through urban mobility strategies and utilizing inland waterways to improve the efficiency of logistic lifecycles. The project also speculates about the ever-changing logistic infrastructures such as a terminal, warehouse and distribution centre. The transformation of the typology allows it to be redefined considering the aims of Rotterdam Municipality. With the immense potential of the inland waterways that

Rotterdam have, the connection between North and South will be improved and the introvert identity of port areas will be accessible for the public while changing the urban identity of the area.

Relevance

The social relevance of this research is to understand the potentiality of waterborne logistics in the city of Rotterdam which will potentially create alternative modes of transportation and increased accessibility for the city.

The aim of this research is to get to know more about transport over water and what makes it viable since there's not much known about this relative new phenomena for Rotterdam