

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	Bin Wei
Student number	5089050

Studio		
Name / Theme	Complex Projects - MSc3&4 Hotel New York Studio	
Main mentor	Henri van Bennekom	Architecture
Second mentor	Hubert van der Meel	Building Technology
Third mentor	Marija Mateljan	Architecture
Argumentation of choice of the studio	Attracted by the topic of migration of ideas. Interested in the studio research and design method - "story-telling"	

Graduation project	
Title of the graduation project	MOBILITY HUB - Facilitating Urban Connections using the Idea of Street
Goal	
Location:	District Feijenoord, Rotterdam, the Netherlands
The posed problem,	With more and more attention paid to the Rotterdam South, the poor connection handicaps the development of Feijenoord in physical and urban-program aspect. And the congested street, which cannot facilitate social activities, exacerbates the disconnection problem.
research questions and	How can the Mobility Hub facilitate the east-west connection in the Feijenoord area on a neighborhood level by using the idea of street?
design assignment in which these result.	Design a Mobility Hub that integrates separated Feijenoord areas. Design the street as the spatial tool for Mobility Hub to facilitate social activities.

Located in the south of Europe Cultural Capital - Rotterdam, the Feijenoord district suffers from congested streets, lack of social events and urban disconnection. As the city municipal pays more attention to the future development of Rotterdam South, three future plans are proposed to improve the area. However, each of the future plans suggests its own axis and future vision, and make the disconnection problem even worse.

Based on the problems above, the Mobility Hub Project is proposed as the convergent zone to connect the urban areas in terms of street.

Process

Method description

The main research method is typology and morphology. The research strategy has three steps. First, collect the street social-spatial theory of praxeology and semiology. Second, use the spatial typology and social morphology study to find out the relationship between space and social activities. Third, create some certain spatial modes of the street that can facilitate the social activities in the Feijenoord area.

Literature and general practical preference

My research builds on two types of literature. One is about the social-spatial theory of praxeology and semiology. Another is mainly projects and references. Besides, the data, municipal zoning information are used to make the site research. Here is the literature that I used:

1. Mumford, L. (1961). *The City in History: Its Origin, Its Transformations and Its Prospects*. New York: Harcourt Brace Jovanovich
2. Rapoport, A. (1977). *Human Aspects of Urban Form*. Oxford: Pergamon Press.
3. Jukes, P.(1990). *A shout in the Street*. New York: Farrar Straus Giroux.
4. Kostof, S. (1992). *The City Assembled: The Elements of Urban Form through History*. Boston: Little, Brown & Co.
5. Jackson, J.B. (1987). *The American Public Space*. In N. Glazer and M. Lilla(eds), *The public Face of Architecture: Civic Culture and Public Spaces*. New York: The Free Press
6. Vikas, M. (2013). *The Street - A Quintessential Social Public Space*. Routledge.
7. Becker, F. and Coniglio, C. (1975). Environmental messages: personalization and territory. *Humanities*, 11, 55-74.
8. Hall, E.T. (1966). *The Hidden Dimension* (1969 ed.). Garden City, NY: Doubleday
9. Jacobs, J. (1961). *The Death and Life of Great American Cities*. New York: Vintage Books.
10. Yoshinobu, A. (1979). *The Aesthetic Townscape* (1983 ed.). The MIT Press
11. Baird, G. (2011). *Public space: cultural, political theory: street photography: an interpretation*. SUN.
12. Moughtin, C. (1992). *Urban design: street and square*. Butterworth Architecture.
13. Westerveld, E., & Rotterdam Marketing. (2000). Rotterdam. Scriptum.
14. Shannon, K., & Smets, M. (2010). *The landscape of contemporary infrastructure*. NAI.
15. Thorne, M., & Art Institute of Chicago. (2001). *Modern trains and splendid stations: architecture, design, and rail travel for the twenty-first century*. Merrell.
16. Brambilla, R., & Longo, G. (1977). *For pedestrians only: planning, design, and management of traffic-free zones*. Whitney Library of Design.
17. Asensio Cerver, F., & Webb, M. (1997). *The architecture of stations and terminals*. Hearst Books International
18. Neufert, E., Neufert, P., & Kister, J. (2012). *Architects' data* (4th ed.). Wiley-Blackwell.

Reflection

1. What is the relation between your graduation (project) topic, the studio topic (if applicable), your master track (A,U,BT,LA,MBE), and your master programme (MSc AUBS)?

The mobility hub project is based on the migration of street. By analyzing the historical, spatial and social aspects of the street, the project gains inspiration for programs and spatial concepts. Similarly, the complex studio's topic, migration of ideas, encourages students to find how the idea can be transformed and evolved. From the community scale to the city scale, my graduation project tries to use architecture as a tool to study and solve urban problems. And it is one of the subjects that my master program education tries to teach.

2. What is the relevance of your graduation work in the larger social, professional and scientific framework?

My graduation project tries to solve the urban and social problems in Feijenoord by exploring the social-spatial theory of praxeology and semiology.

The urban disconnection is not only the spatial problem but also the social, political and cultural problem in the global background. Through the study of urban, political, social theory on the global scale, the project discovers the street as the spatial tool to tackle the specific situation in the Feijenoord area.

By designing the Mobility Hub and spatial modes of the street, my graduation work offers a solution to solve the urban disconnection for the modern metropolitan and monofunctional city.