Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences

Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners (<u>Examencommissie-BK@tudelft.nl</u>), 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	Johan Boele
Student number	5062756

Studio			
Name / Theme	Advanced Housing Design – Ecology of Inclusion		
Main mentor	Robbert Guis	Design	
Second mentor	Alejandro Campos Uribe	Research	
	Stephan Verkuijlen	Building Technology	
Argumentation of choice of the studio	The social and societal issues the studio raises are the reason I chose this studio. The problems sometimes seem so all-encompassing and unbridgeable that there seems to be no point. Nevertheless, I believe that by contributing on a smaller scale, particularly in the realm of housing, it can eventually yield positive effects on a larger scale. Personal interest in the future of senior housing aligns seamlessly with this studio, as it addresses current significant challenges that are only expected to grow in importance over time. After all, if all goes well, we will all experience the process of aging		

Graduation project				
Title of the graduation project	Intergenerational Interaction Constructed: How Spatial Design Can Maximize Social Encounters within a Community of All Ages			
Goal				
Location:		Delft Tanthof East, at the edge of the Midden-Delfland area		
The posed problem,		In 2050 one in six people will be 65 years or older. The United Nations (UN) estimates that the world's population will comprise 16% of the elderly by then. This will be caused by increased life expectancy at birth, improved survival at an older age, and a decline in fertility. While the number of older people increases, the number of retirement homes declines and governments in many countries promote		

	self-support as long as possible. This trend poses challenges related to housing for the elderly. In addition to the housing issue, loneliness among the elderly is becoming a growing concern. One potential solution to combat loneliness is community living, offering the elderly an opportunity to age in place, with younger individuals assisting the older ones if needed.
	Intergenerational programs alone do not ensure that people help each other. A connection needs to be established. By maximizing social interaction, such a bond can be formed.
research questions and	Research question: To what extent do intergenerational programs and initiatives promote social inclusion for all ages in spatial design, and what are the best practices for creating successful intergenerational interactions?
design assignment in which these result.	Architectural interventions intensify opportunities for social interaction, resulting in a home design that positively affects the well-being of the elderly and combats loneliness.

Process

Method description

To explore the needs and preferences of senior housing, my primary focus is on reviewing relevant literature. Additionally, a comprehensive understanding of the various interpretations of in-between spaces and their acknowledgment will be achieved through a literature review. Further on, I did three case study analyses of collective housing design. The selected case studies featured in this research are Wagnisart in München Germany, Bijgaardehof in Ghent Belgium, and Vindmøllebakken in Stavanger Norway.

I plan to do a site analysis/observational study at the Bijgaardehof case study project in Ghent.

Literature and general practical references

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Reflection

The escalating rates of loneliness impact people across all age groups; however, the percentage is notably higher among those aged 75 and above. To address this societal challenge, the proposal involves the creation of an intergenerational cohousing project. While the concept of co-housing is not groundbreaking in the Netherlands, the number of examples in our country is not as abundant as in our neighboring countries. Implementing such projects could serve as a solution to both the housing crisis and the issue of loneliness.

My graduation project is situated in an area vulnerable to future flooding risks. The aim is to develop a more sustainable housing initiative that not only raises awareness about the significance of water protection but also ensures its sustainable utilization. The intention is to go beyond the conventional approach of constructing a mere dyke and instead, water protection as a landscape and use water as a multifaceted resource. This initiative aligns with the potential implications of climate change and strategies to address it.