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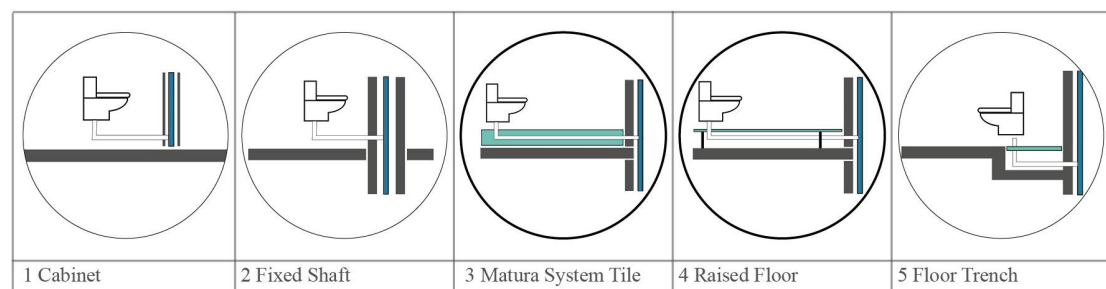
This reflection document will follow the general aspects as provided in the Graduation Manual to look in retrospect to the project in order to assess if the ambitions are achieved and the research and design are an integrated whole.

### **The relationship between research and design**

Due to the context that set up by the argument, the research paper focus on the plumbing solution in the Open building project in order to reach a maximum adaptability and a minimizing physical intervention to the existing building structure. The research result will be adapt into the design process and the design would offer an illustration of how the strategy could be implemented in a case.

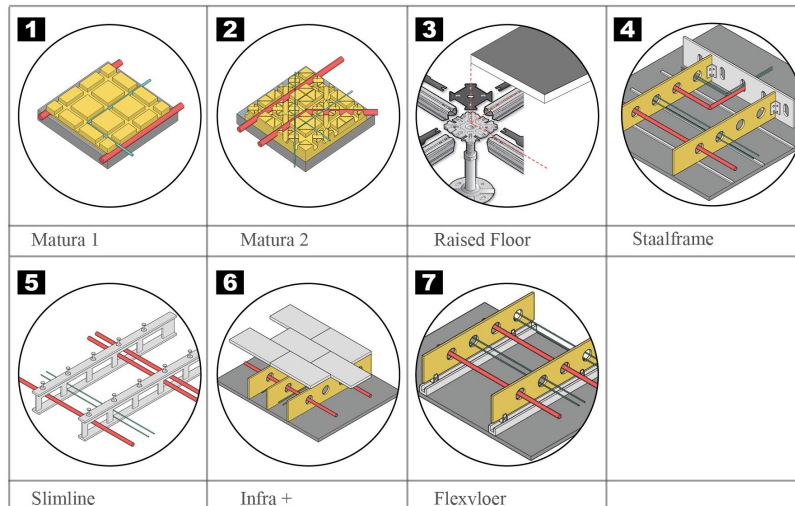
In the research part, several plumbing solutions with open building concept. As the raised floor system has been tested to be the best solution, 5 different products are compared and 3 prototypes are promoted as there are a few products regarding with the renovation project.

Among all the 5 floor system products, the Matura 2 is selected to be used in the design later in order to achieve a free floor plan and a clear modular management system for leasing.



The relevance of your graduation work in the larger social, professional and scientific framework.

Office vacancy is an ever dominant problem in the Netherlands and abroad. While there are still a lot of issues unresolved, we might be overwhelmed



with ideas, concepts and suggestions on how to tackle this vacancy. This graduation project tried to give a different perspective on this vacancy by introducing the concept of OPEN BUILDING and link this phenomenon with the mid-income housing shortage situation.

The project will stress the problem with a design strategy in steps. In the first initiative part, the architect will work together with the developer or housing company to assess the transformation possibility to find a matching target vacant office building. The target building's location characteristics and physical building characteristics will be assessed.

In the Support design part, the architect will work as the principle designer to give the project an extra design value in order to enhance the living experience of the residents and the neighborhoods. The zoning/plot division, facade and climate design and communal space design will be conducted in a top down method.

In the last part, the fit-in design part, the residents (user) will be involved in the process in order to achieve a customization design solution. The process will be performed in an on-line way and to have a direct feedback of the rent and price of the housing to the residents so that the project can be more user - friendly to the end- user and strength the connection between the housing association and its customer group.

In the new age the user participation is growing more and more important and I hope the strategy could contribute for the architect to find a new role in the cooperation process with the customer and the developer.

