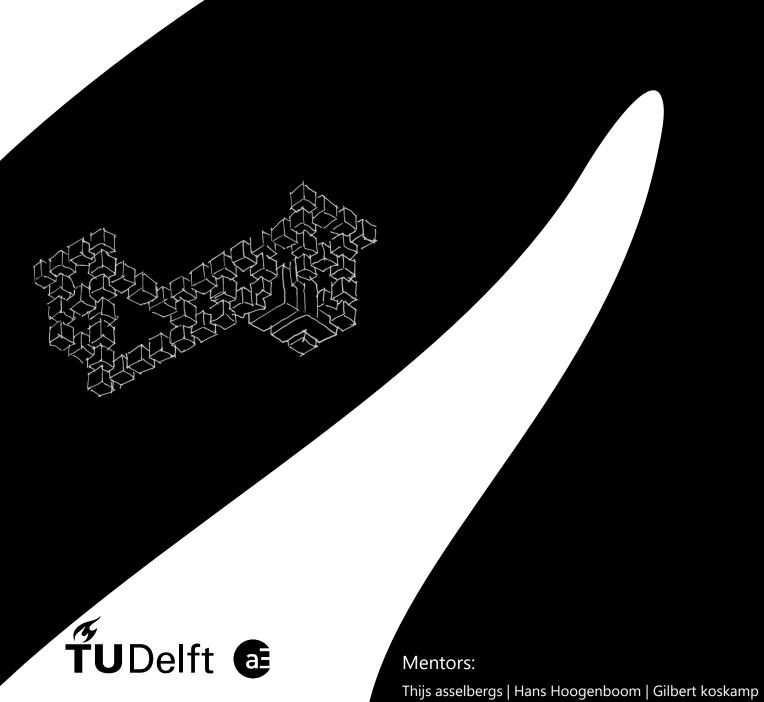
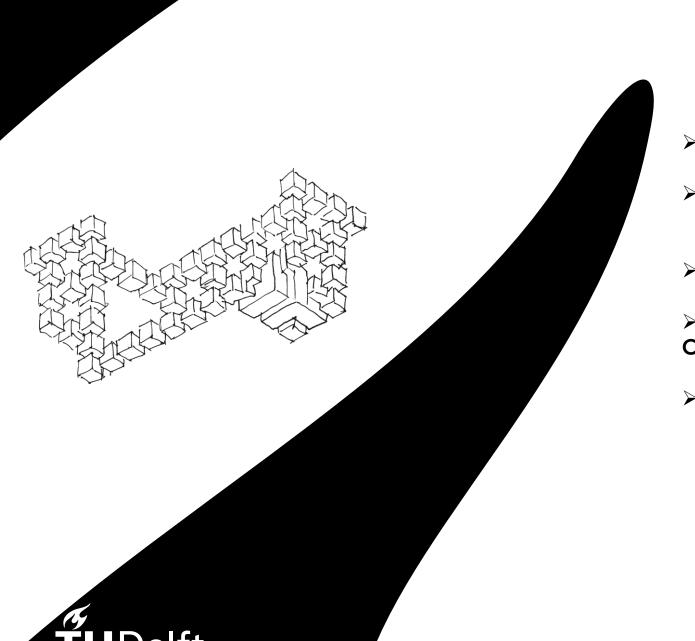
TUDelft





Apron City

Tarik Alboustani / 22 May 2023



- Problem Statement
- Research Questions & Requirements
- Design Automation
- Design
 City > URBAN > District > Building
- > Short Movie

Apron City

Tarik Alboustani / 22 May 2023

TUDelft Mentors:

Thijs asselbergs | Hans Hoogenboom | Gilbert koskamp

Problem Statment



Problem Statement



Michael Wolf skyscraper minus sky, By Michael Wolf



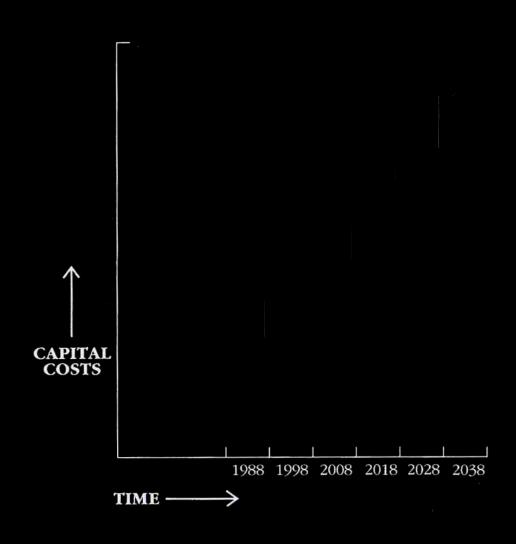
Black Qube, Life in Cities, By Michael Wolf

Problem Statement





Problem Statement



How Buildings Learn, Stewart Brand





Research Questions & Requirements



Research

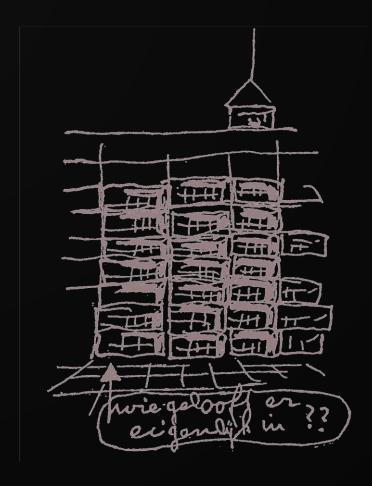
Main question:

How to create **adaptable architecture** (open building) using computational workflow?

Sub-question:

- Best practices in system design methodology for creating adaptable design configurations?
- How the Integration of design process and user needs with engineering in system design?

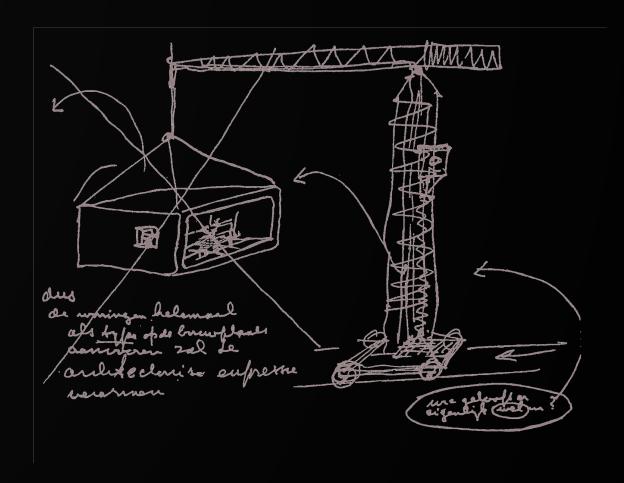




Wie gelooft er eigenlijk in ?

Who believes in it?





dus de woningen helemaal als type of de bouwplaats aanvoeren zal de architectctonihce euforie verstorenWho actually believes in it?

so supplying the houses completely as type or the construction site will disturb the architectctonihce euphoria

Research







M.C. ESCHER

ROEL VAN DER PAS, EXPLORE LAB TU DELFT

PAUL MERRELL

Research (Case Studies)







KUBUS, BY PIET BLOM

HERMAN HERTZBERGER CENTRAAL BEHEER

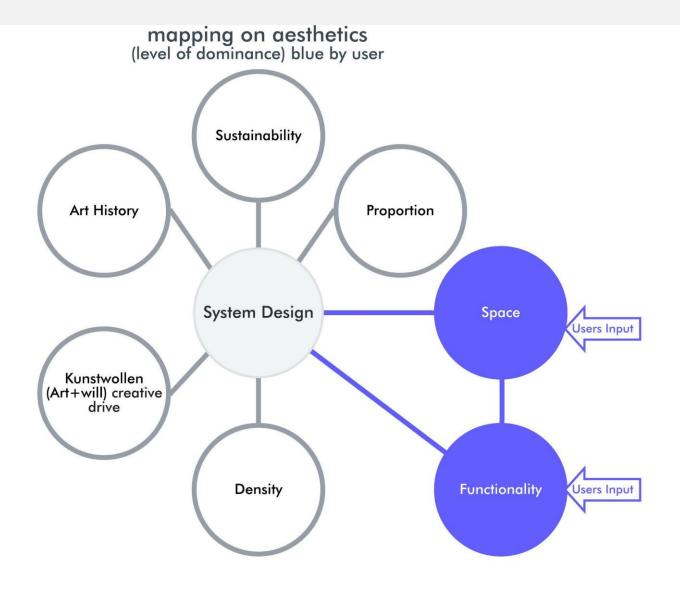
Research (Case Studies)

		_ e	Social spaces improve the spaces with architectural elements that aim to increase the interaction between the users
Must have	Facade orientation must take into account that daylight access to the building is sufficient for the users	Must have	Define the set of rules for the space to be configured
	the subdivisions of the building's functions are clear for visitors to know where to goin the building		Everything has to be possible to become housing in future.
	The traffic flow patterns or people in the urban block need to be smooth during busy and quiet periods.	ave	the structure that gives more freedom for adaptation of changing in program
Should have		Should have	Installation that are easy to be maintained or changed (Outside the inner structre)
	the old buildings (surroundings) need to fit harmoniously with the building design	Shc	Dismountable building strucutre
	The subdivided parts of the building appear to have a specific function, and the process of each element is easy to identify.	0,	Interpretation of architectural elements from old art history buildings or architectural patterns
Could have	easy circulation in the house desgin	Could have	The possibility to build more in the future and add additional Extention
Won't C	Geometrical repetitive modules positioned for aesthetics that do not consider light and solar gain		Having the center unit/ to see the whole building
		Won't have	The use of patterns, language and repetitive modulars



KUBUS, BY PIET BLOM

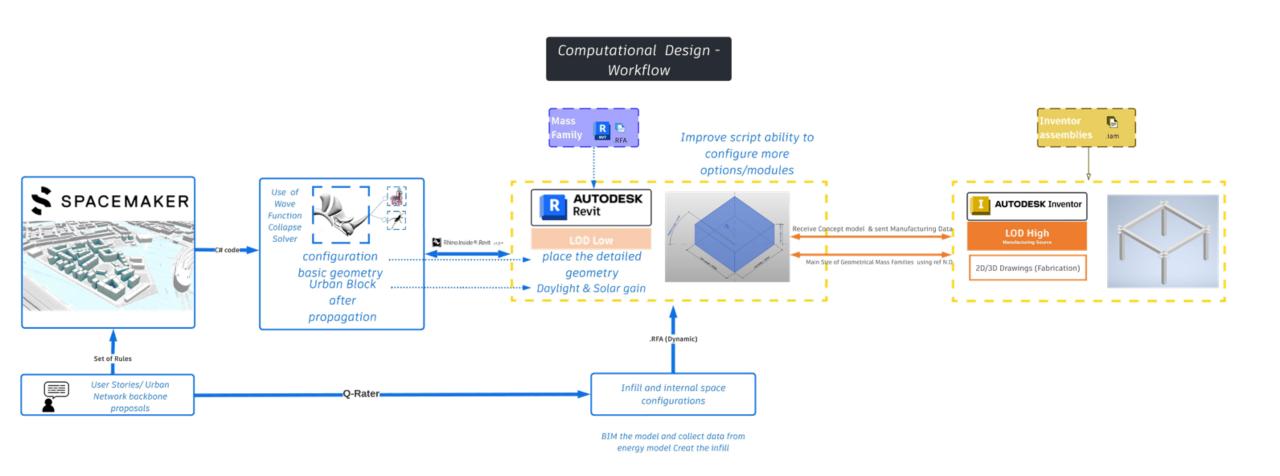
Research



Design Automation

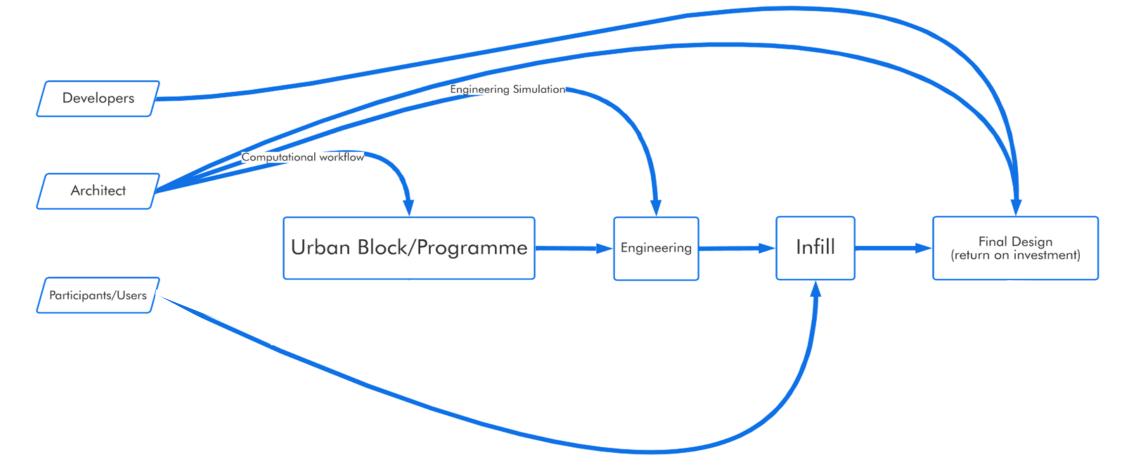


Design Automation





Design Automation

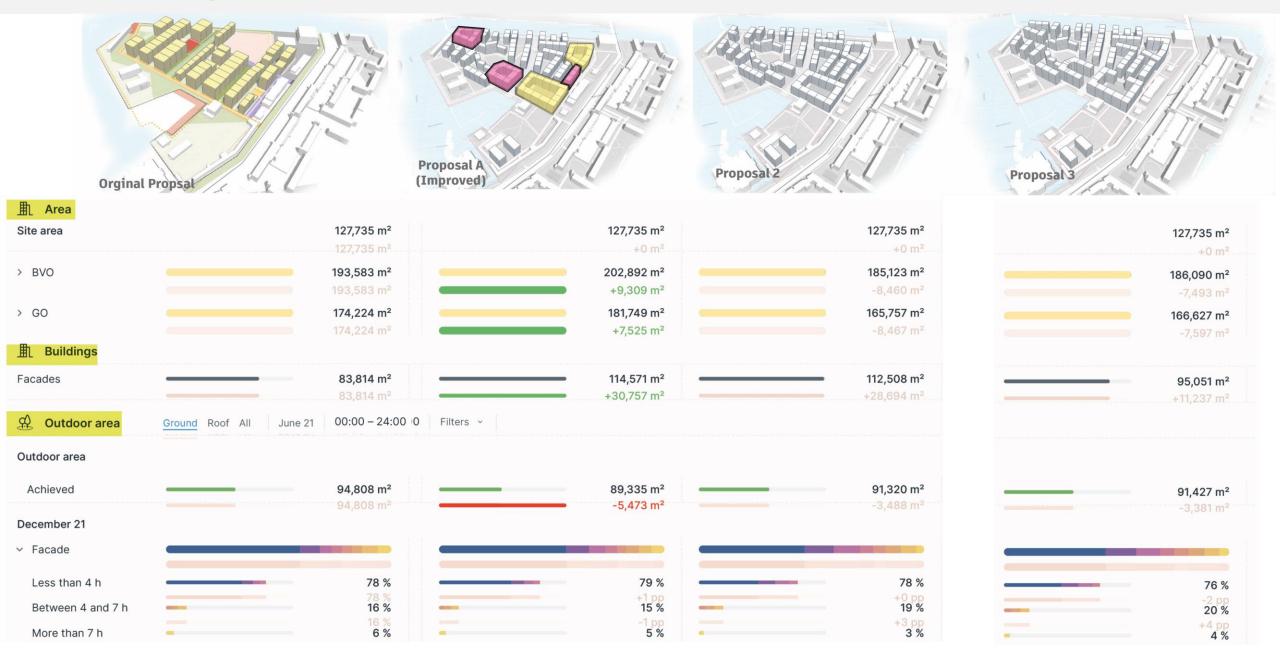




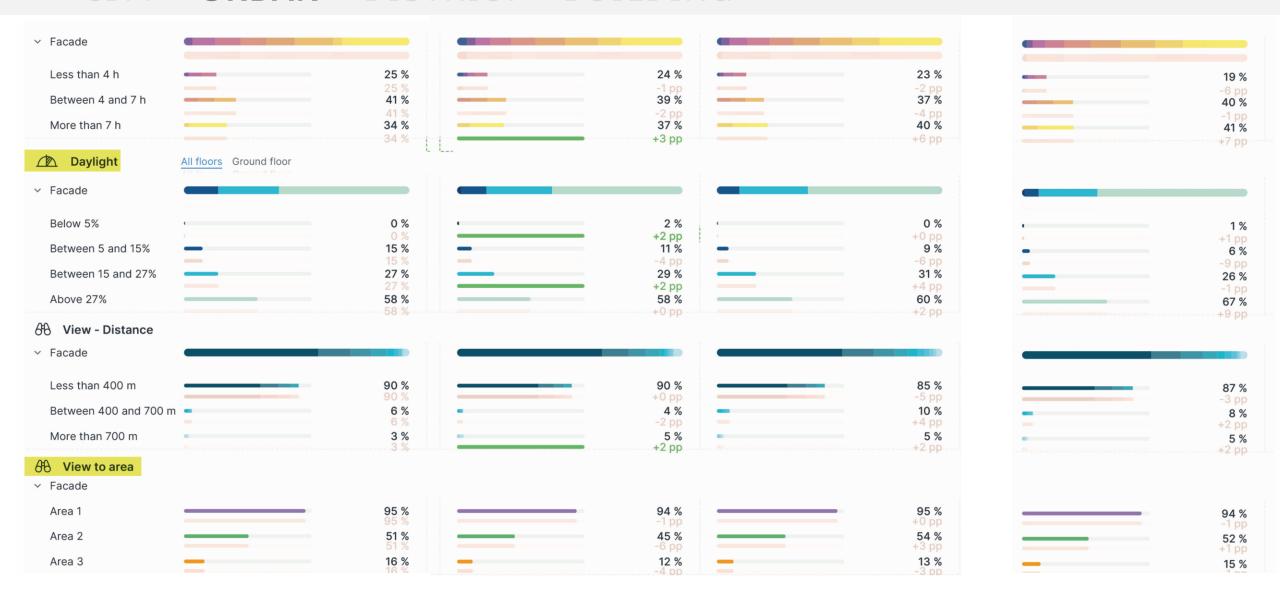
Design Levels CITY > URBAN > District > Building



CITY > URBAN > DISTRICT > BUILDING



CITY > URBAN > DISTRICT > BUILDING















"Van Stoel tot Stad" Short Movie







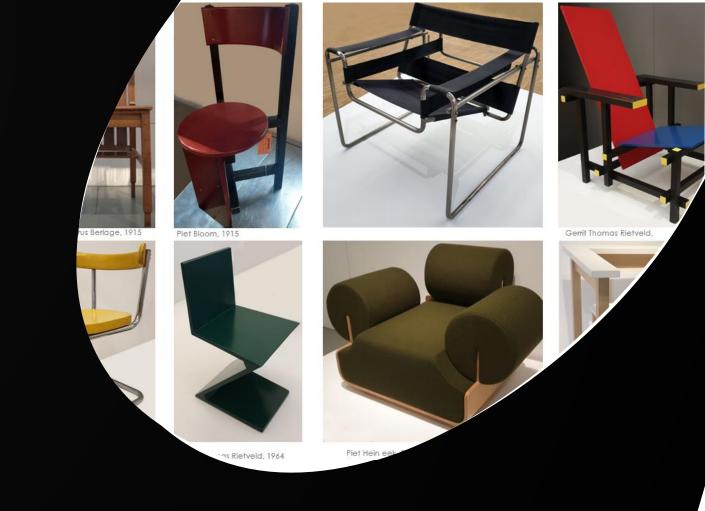










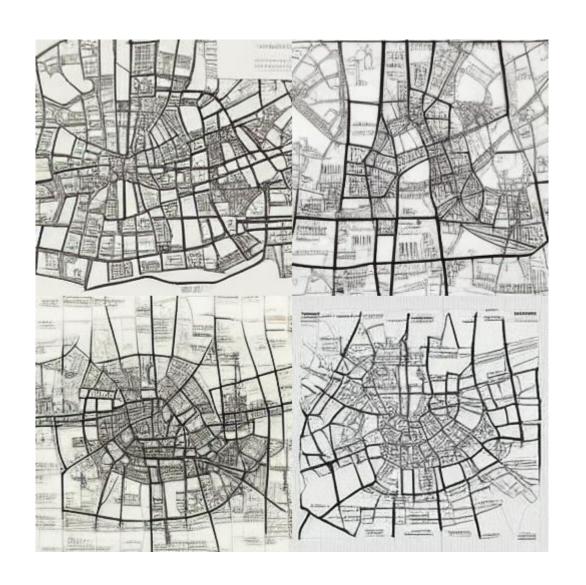


Thank you

Tarik Alboustani



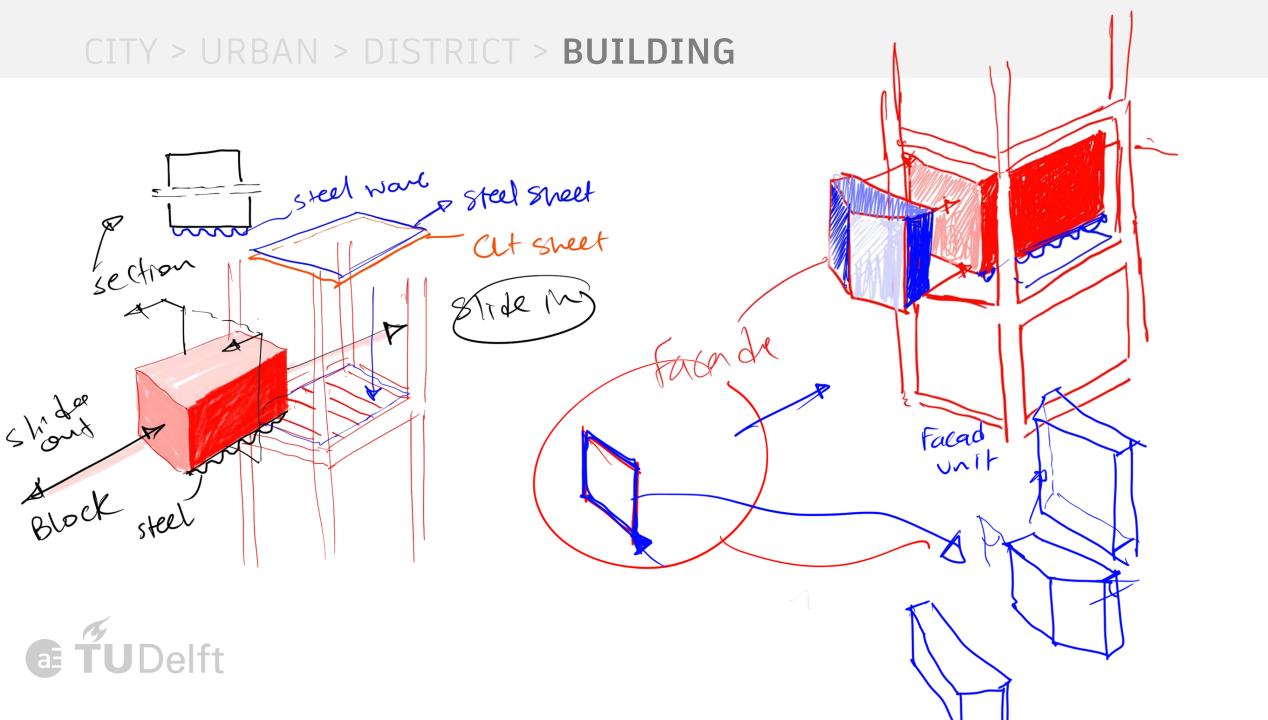
CITY > URBAN > DISTRICT > BUILDING



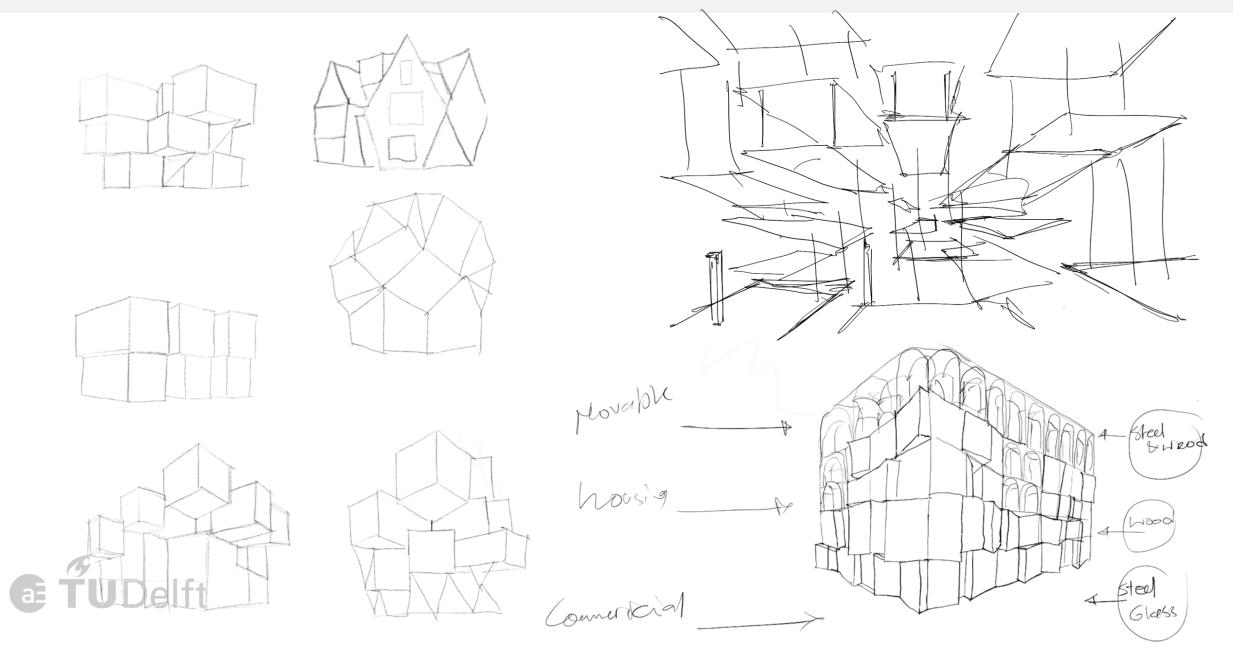








CITY > URBAN > DISTRICT > BUILDING



CITY > URBAN > DISTRICT > BUILDING (Floor 1st)





CITY > URBAN > DISTRICT > BUILDING (Floor 1st)



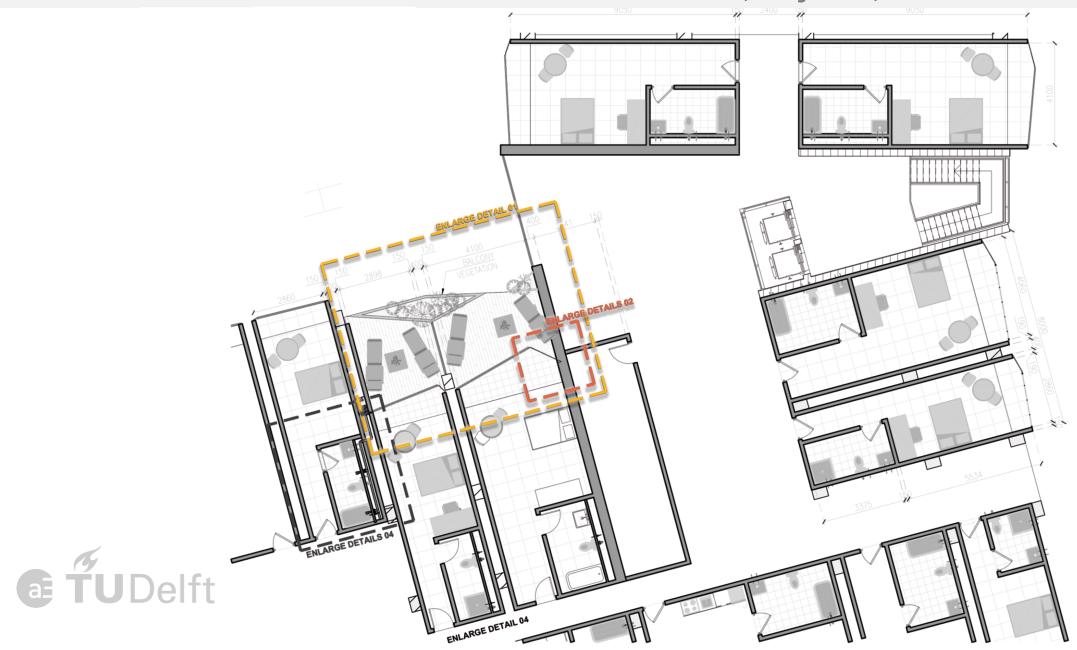


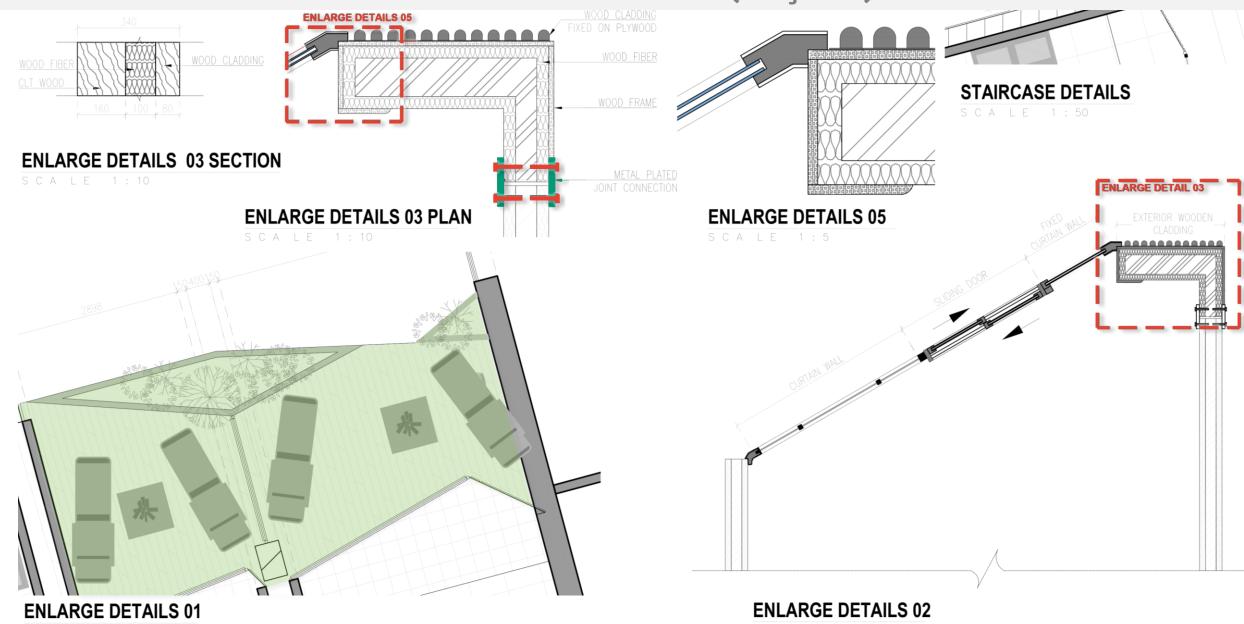
CITY > URBAN > DISTRICT > BUILDING (Floor 2nd)

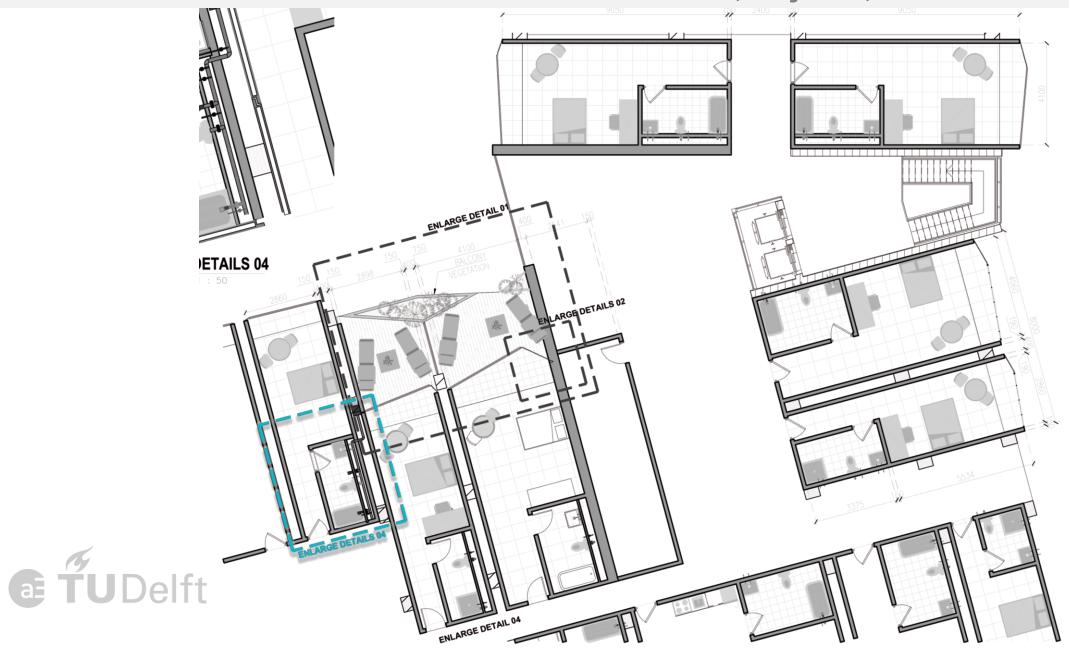


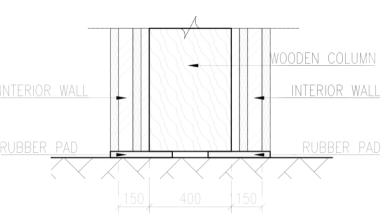
CITY > URBAN > DISTRICT > BUILDING (Floor 2nd)





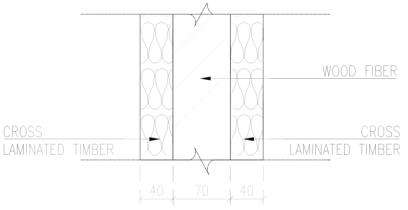






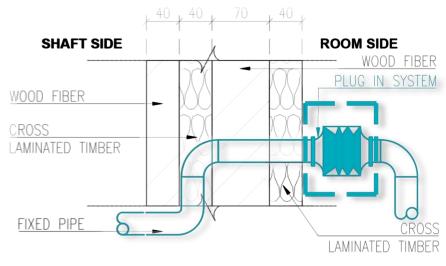


S C A L E 1:20



TYPICAL INTERIOR WALL DETAILS

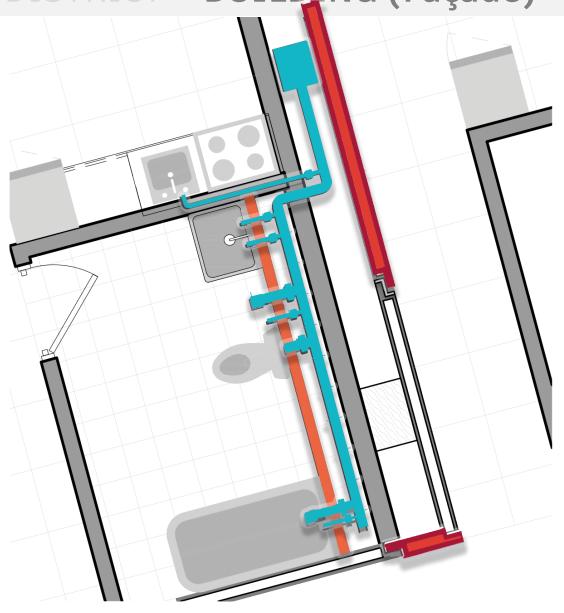
S C A L E 1:5



TYPICAL SHAFT WALL DETAILS

SCALE 1:5







ENLARGE DETAILS 04



CITY > URBAN > DISTRICT > BUILDING (Structure)



CITY > URBAN > DISTRICT > BUILDING (Structure)

