

# WOODEN PROTOTYPE PROJECT ZBOX



1

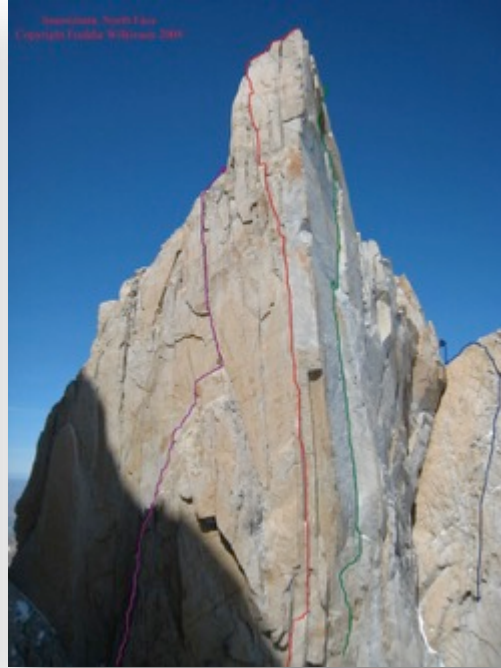
# IT'S ALL ABOUT PEOPLE



# WHAT MATTERS MOST WHEN CLIMBING?



**technology**

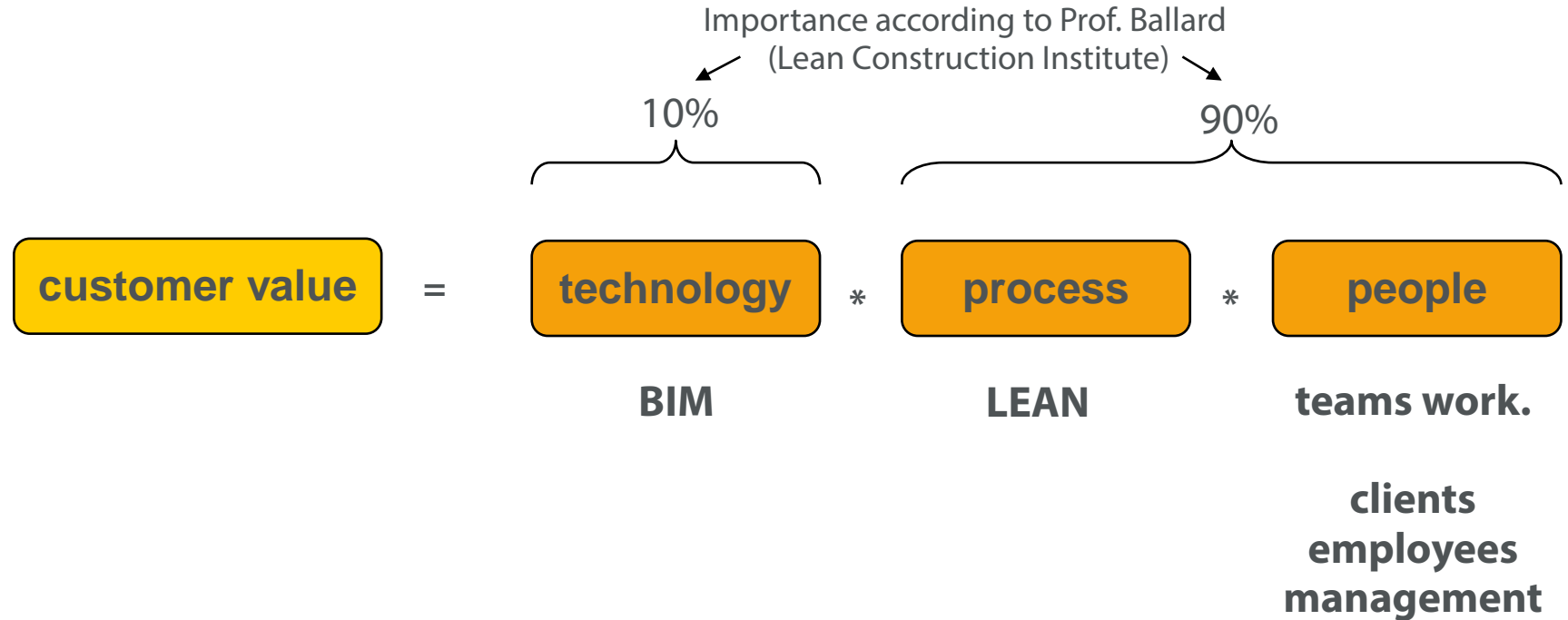


**process**



**people**

# IT'S ALL ABOUT PEOPLE & PROCESS!





## 2 BUILDING A LIVABLE CITY



# HOW TO BUILD A LIVABLE CITY?



# PARTNERING WITH FUTURE-ORIENTED CITITES



LUDWIGSBURG

## Nachhaltige Stadtentwicklung in Ludwigsburg

Stadtentwicklungskonzept (SEK)  
„Chancen für Ludwigsburg“

Mit Leitsätzen und Zielen zur  
nachhaltigen Stadtentwicklung

11 Themenfelder



## Nationale Plattform Zukunftsstadt



LUDWIGSBURG

### Die 11 Themenfelder des SEK:





3

# TIMBER, EMOTION, MOBILITY

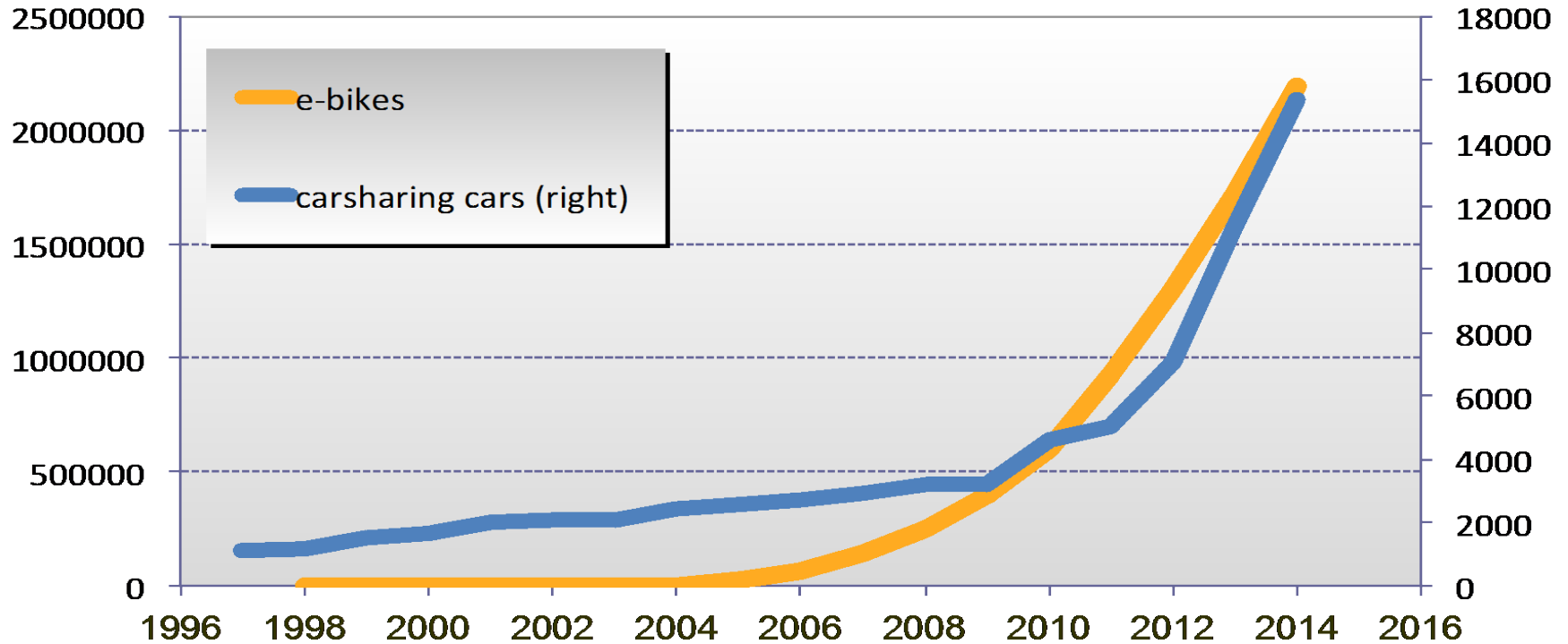




# TIMBER CREATES A NEW CATEGORY IN CITIES



# E-BIKES & CARSHARING CARS IN GERMANY





## 4 DIGITAL REVOLUTION



# THE DYNAMIC RANGE

$$\frac{\text{best}}{\text{average}} = 2$$

*„most things  
in life“*

Source: Steve Jobs, The Lost Interview, <http://www.geekmind.net/2012/07/steve-jobs-on-average-vs-best-software.html>

# THE DYNAMIC RANGE

CODE IS POETRY

$$\frac{\text{best}}{\text{average}} = 2 \quad \text{50..100}$$

*„most things  
in life“*

*„software &  
hardware  
developers“*

Source: Steve Jobs, The Lost Interview, <http://www.geekmind.net/2012/07/steve-jobs-on-average-vs-best-software.html>



# „THE CURRENT TECHNOLOGICAL REVOLUTION, HITS ECONOMIES LIKE A TSUNAMI“ – GUSTAV SCHWAB / WORLD ECONOMIC FORUM



ENCORD Council Meeting with WEF on March 2nd, London / Crossrail.





# 6 MAKING OF... MOBILE CONSTRUCTION



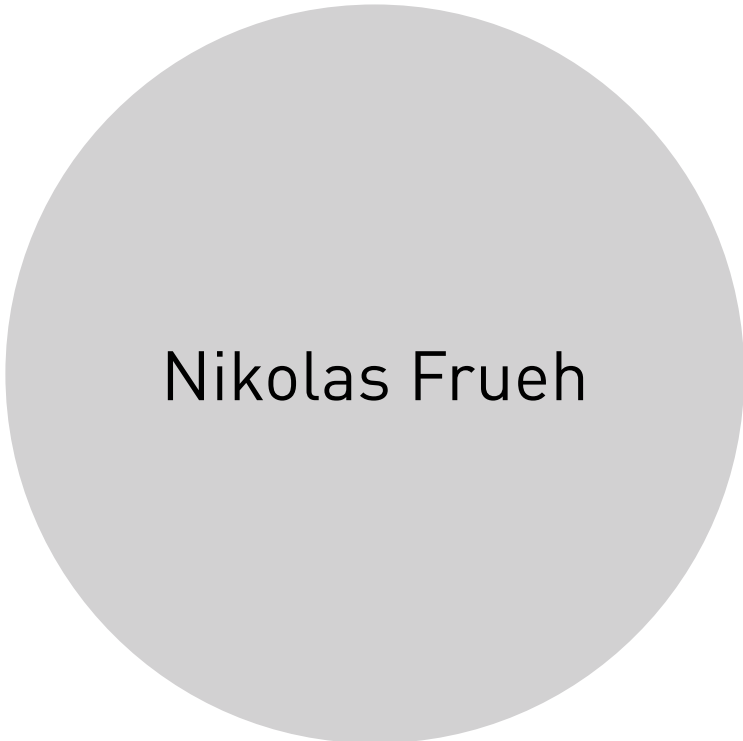
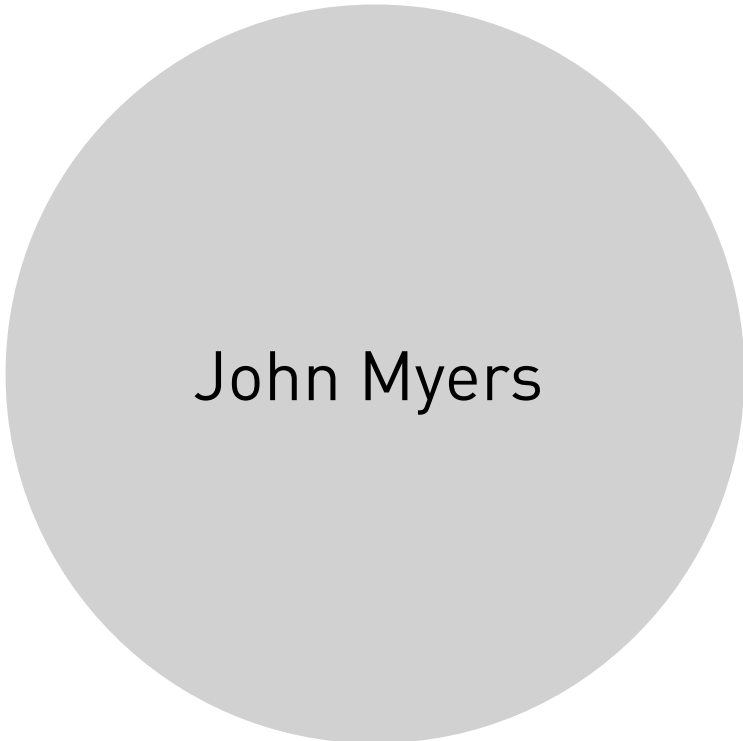
**ZÜBLIN**

TEAMS WORK.

# TEMPORARY MULTI-PURPOSE BUILDINGS WHEREEVER YOU NEED THEM



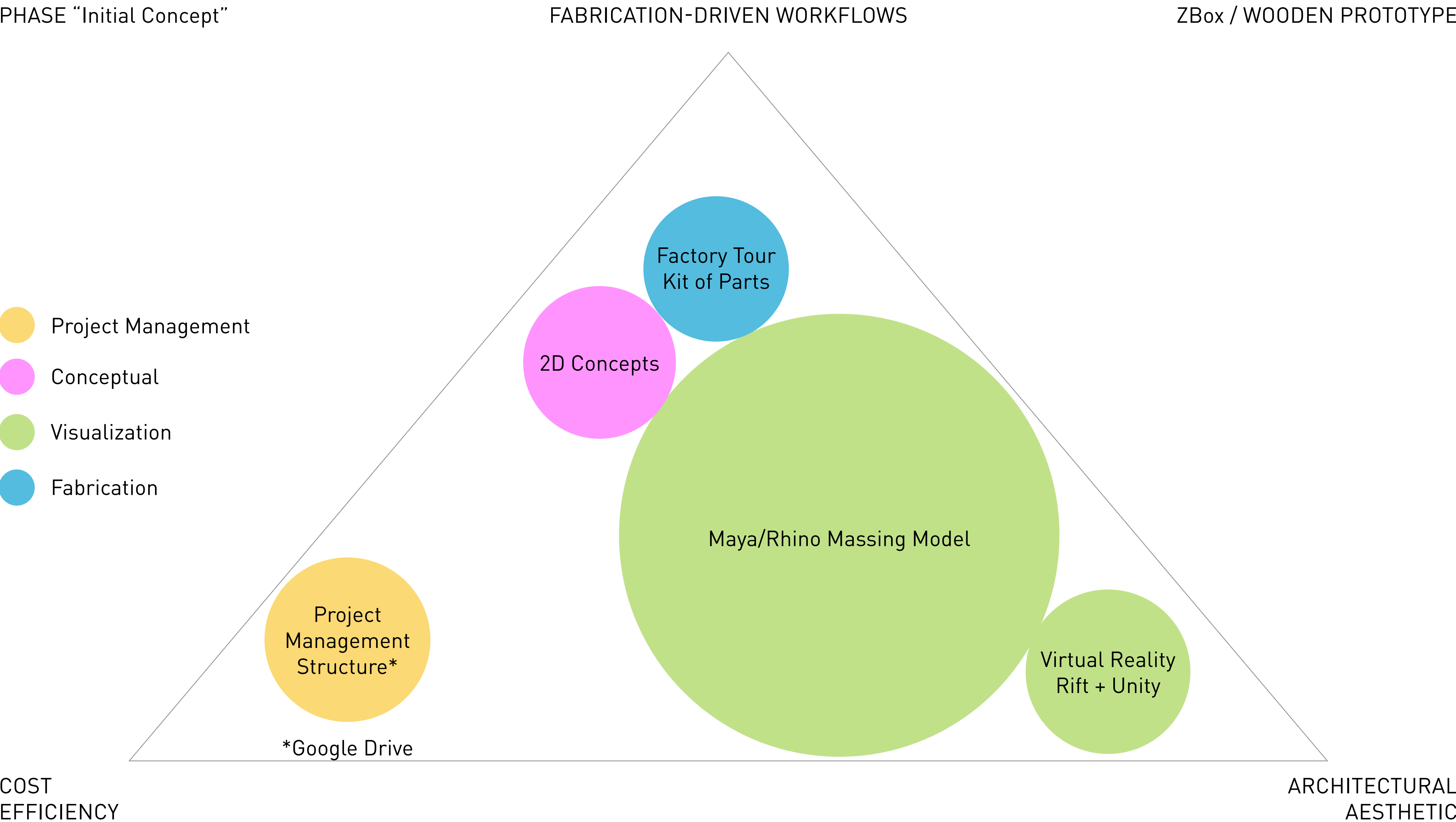




WHAT DID WE DO?

HOW DID WE DO IT?

WHAT WILL WE DO BETTER NEXT TIME?

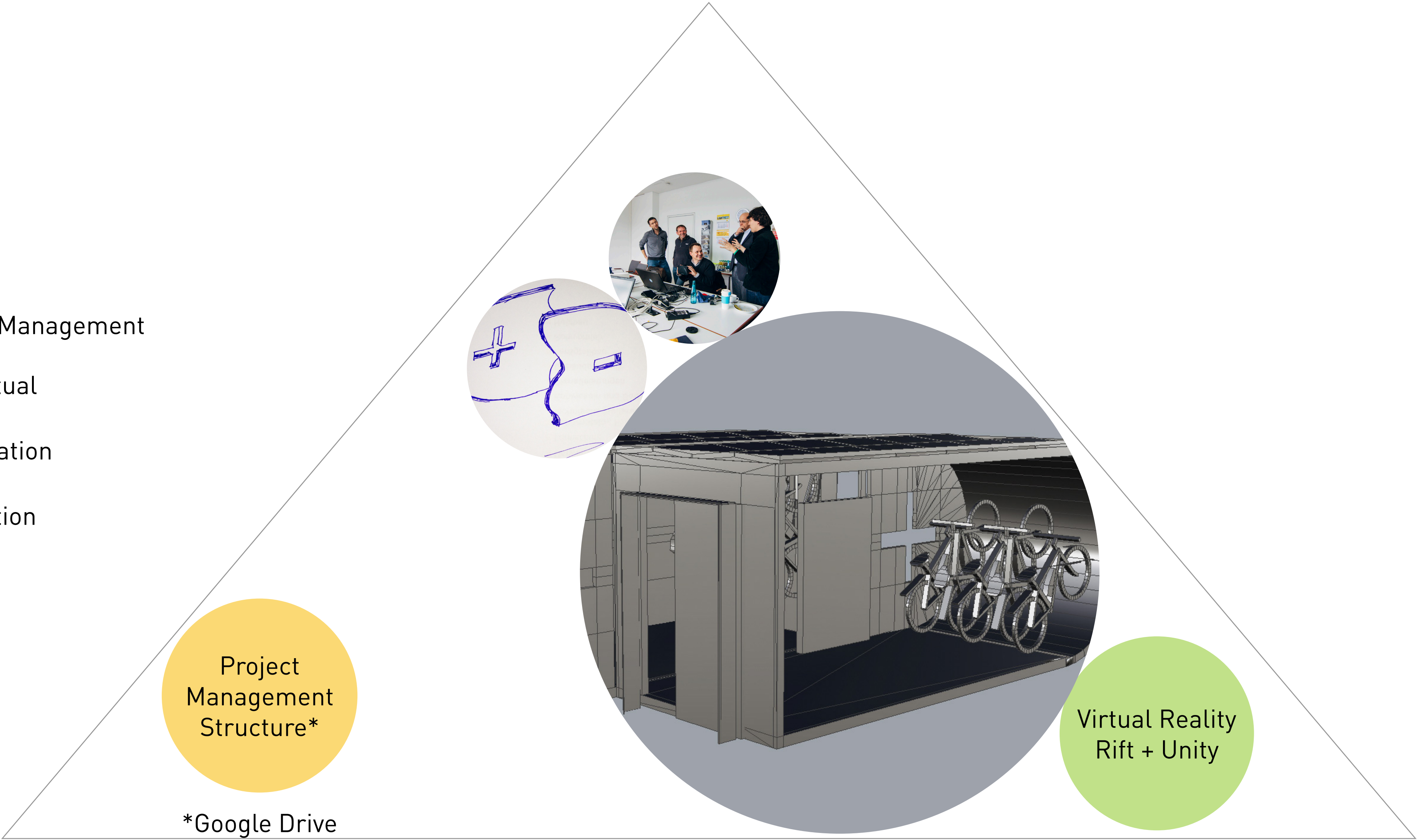


PHASE “Initial Concept”

FABRICATION-DRIVEN WORKFLOWS

ZBox / WOODEN PROTOTYPE

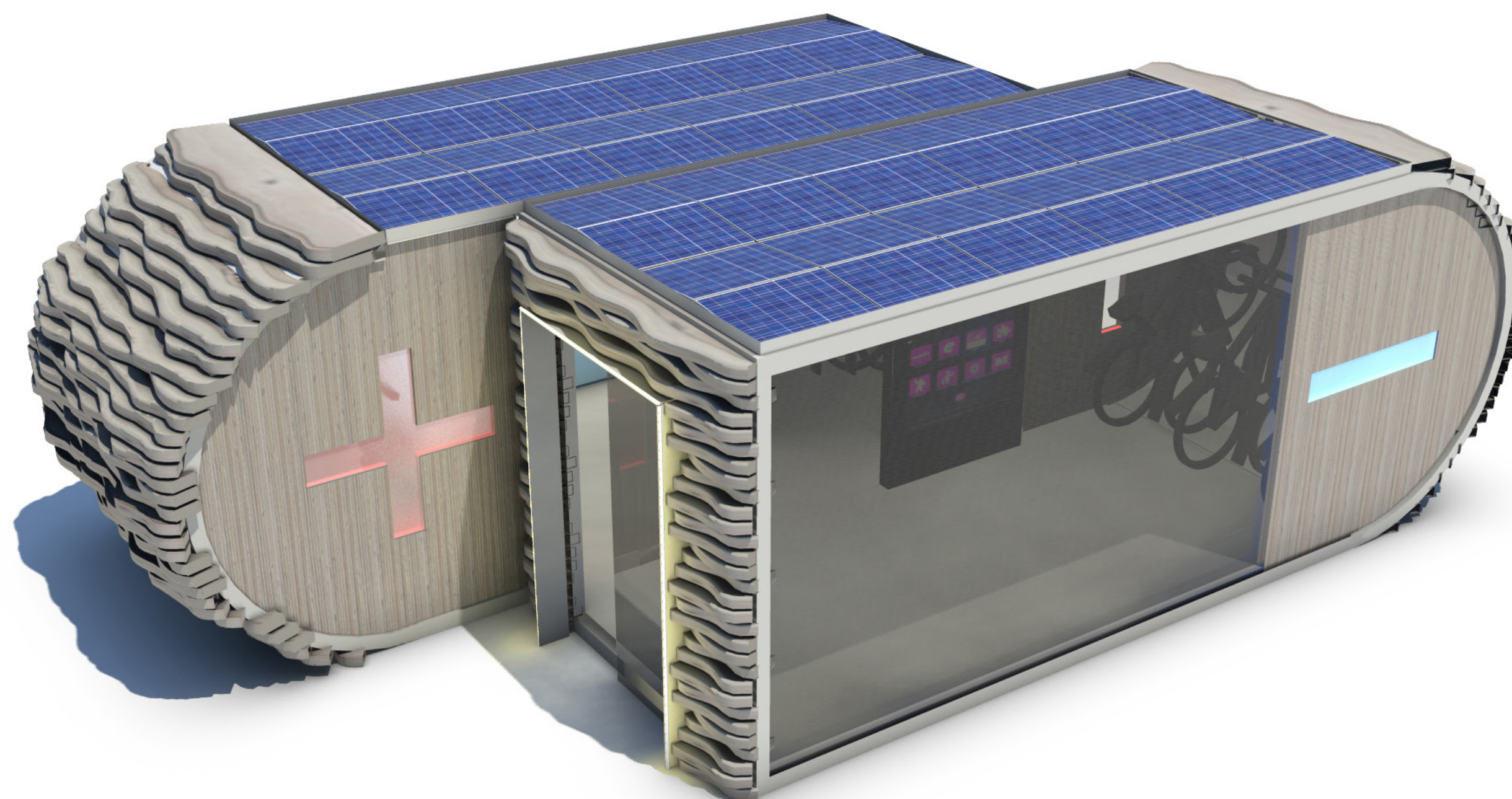
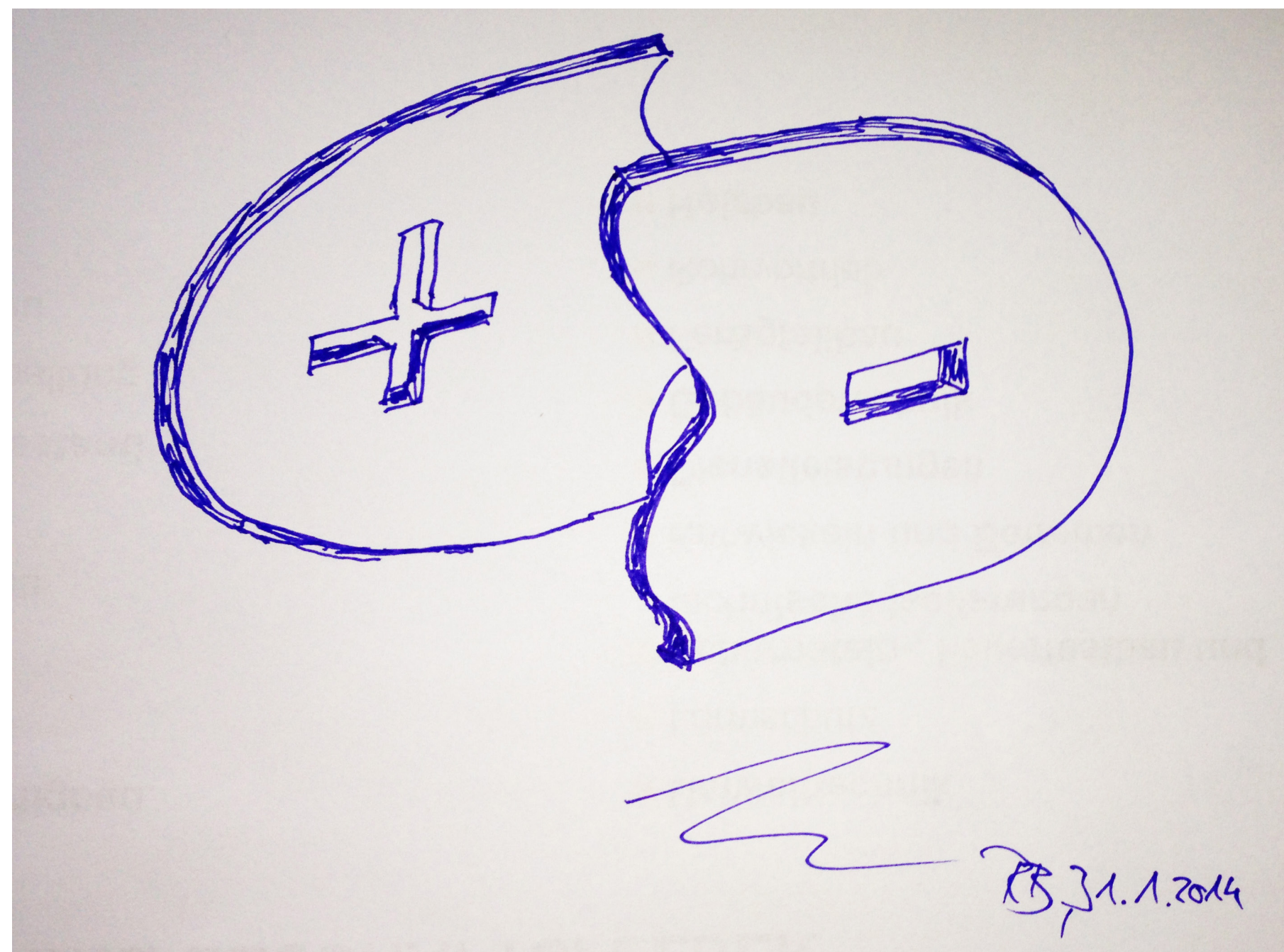
- Project Management
- Conceptual
- Visualization
- Fabrication



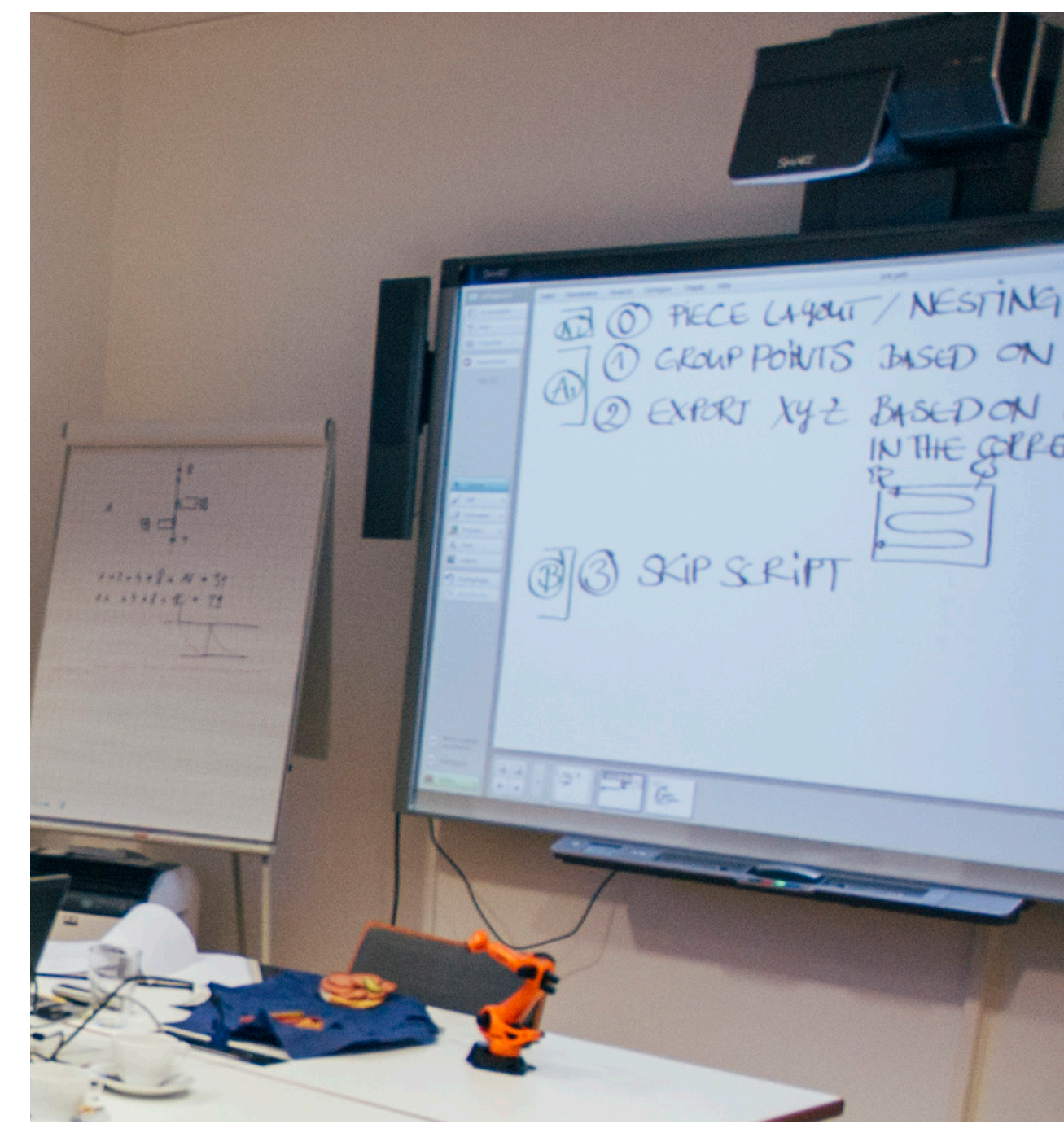
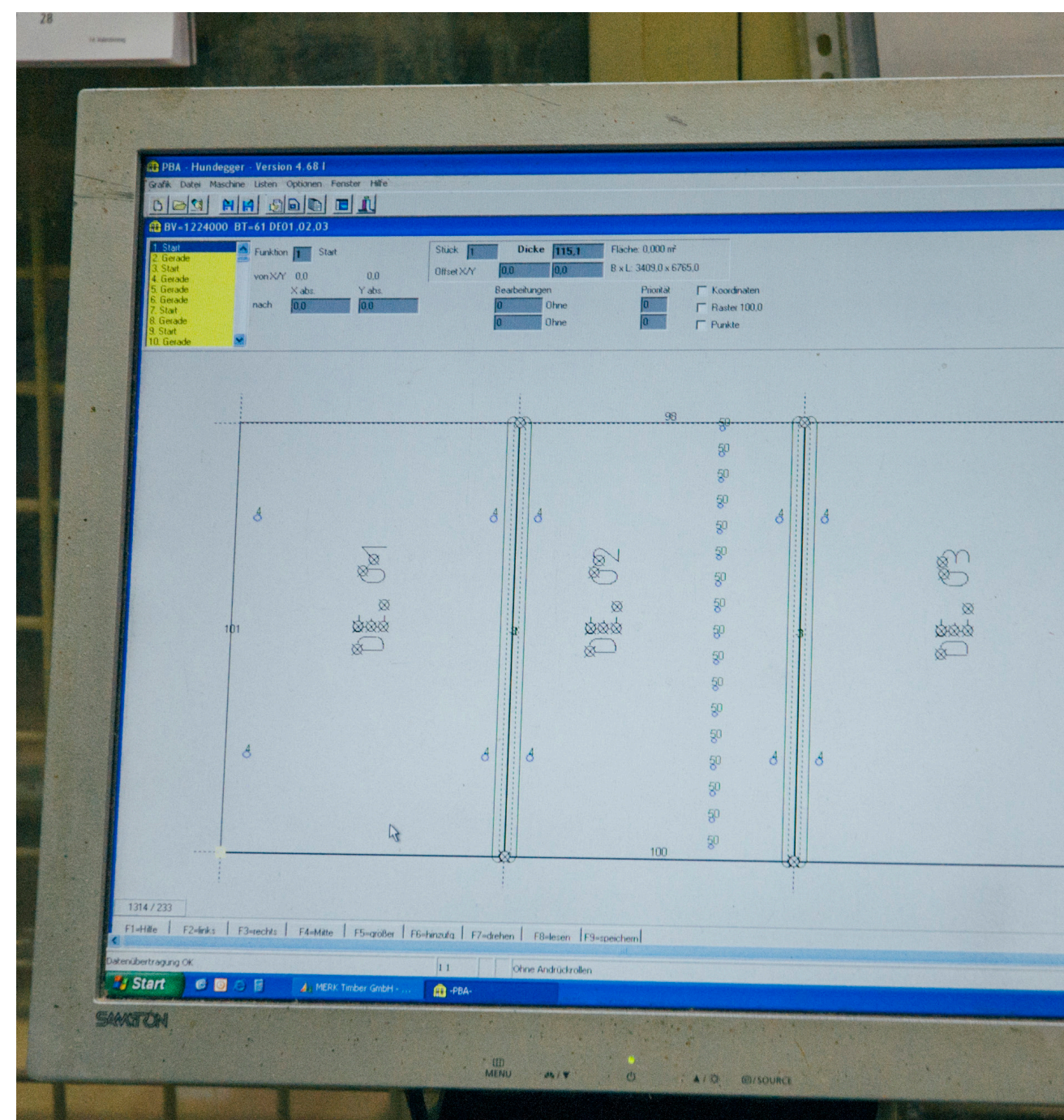
COST  
EFFICIENCY

ARCHITECTURAL  
AESTHETIC

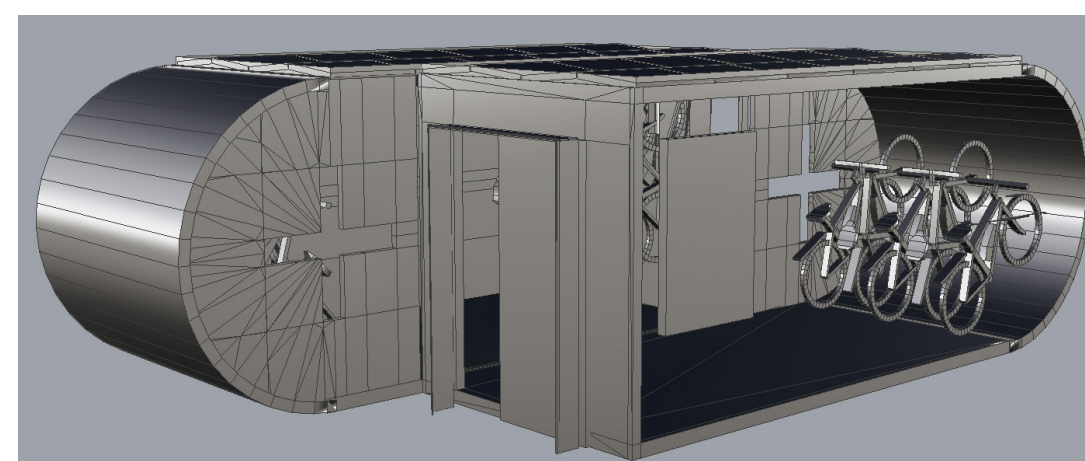
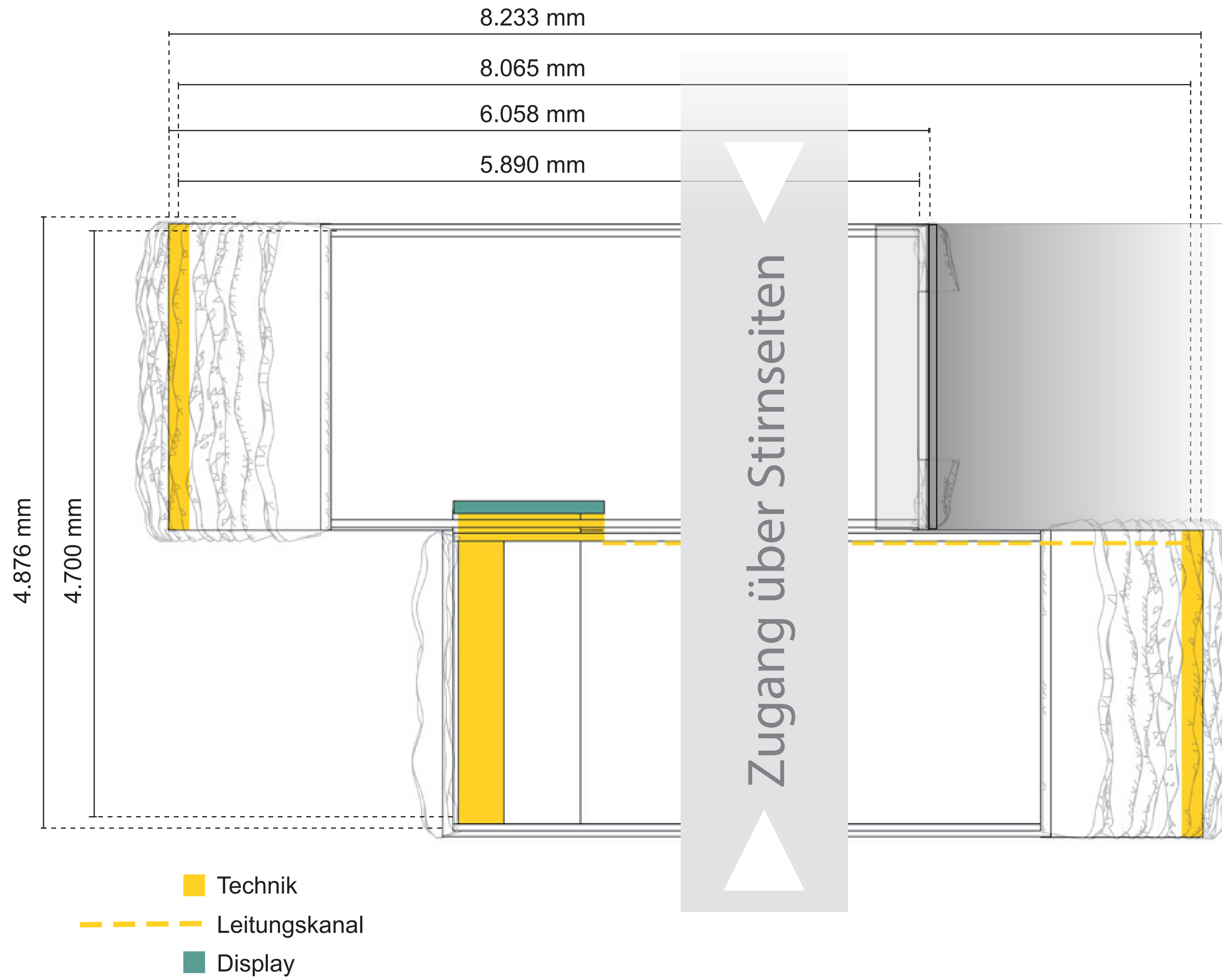


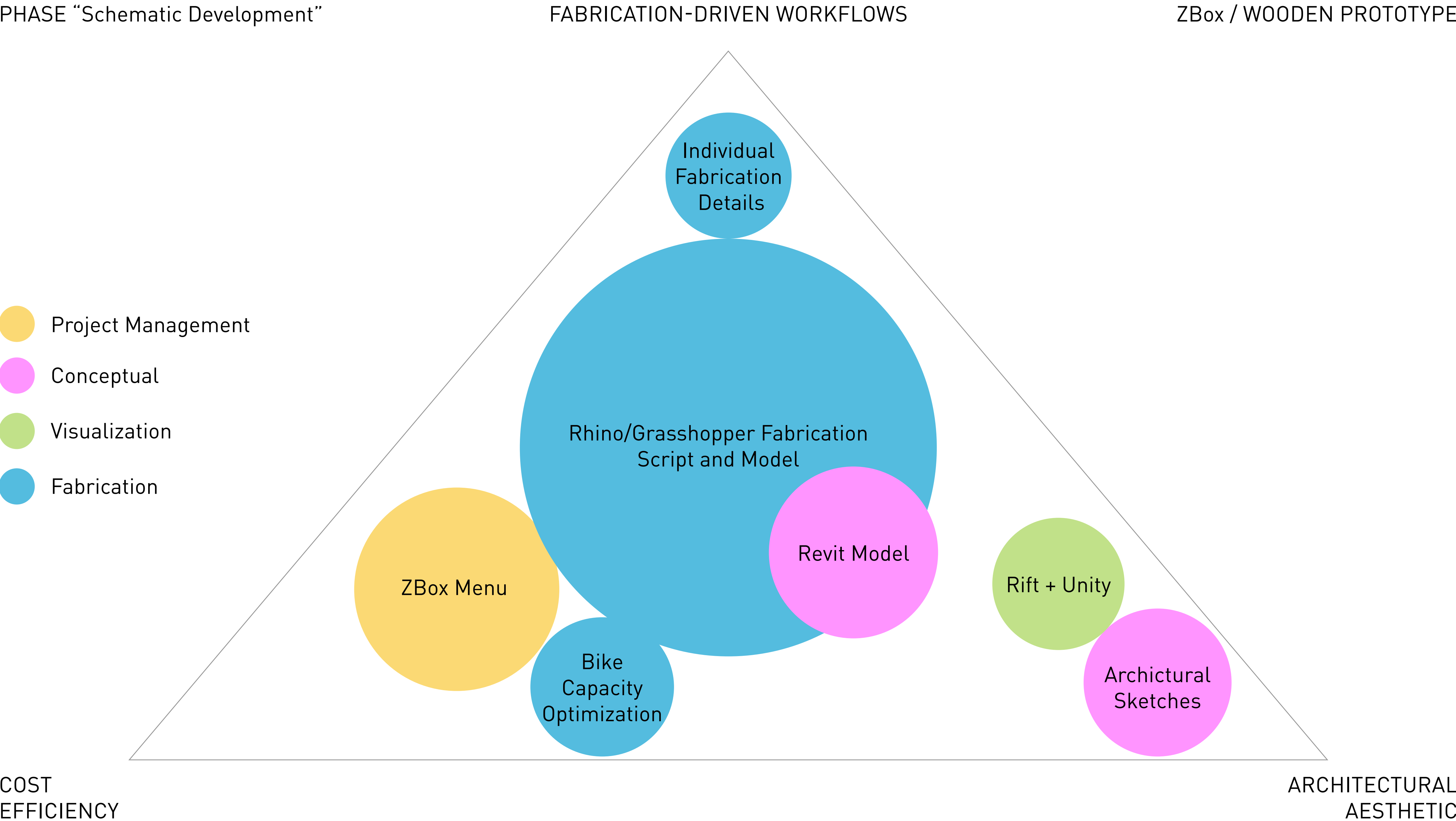










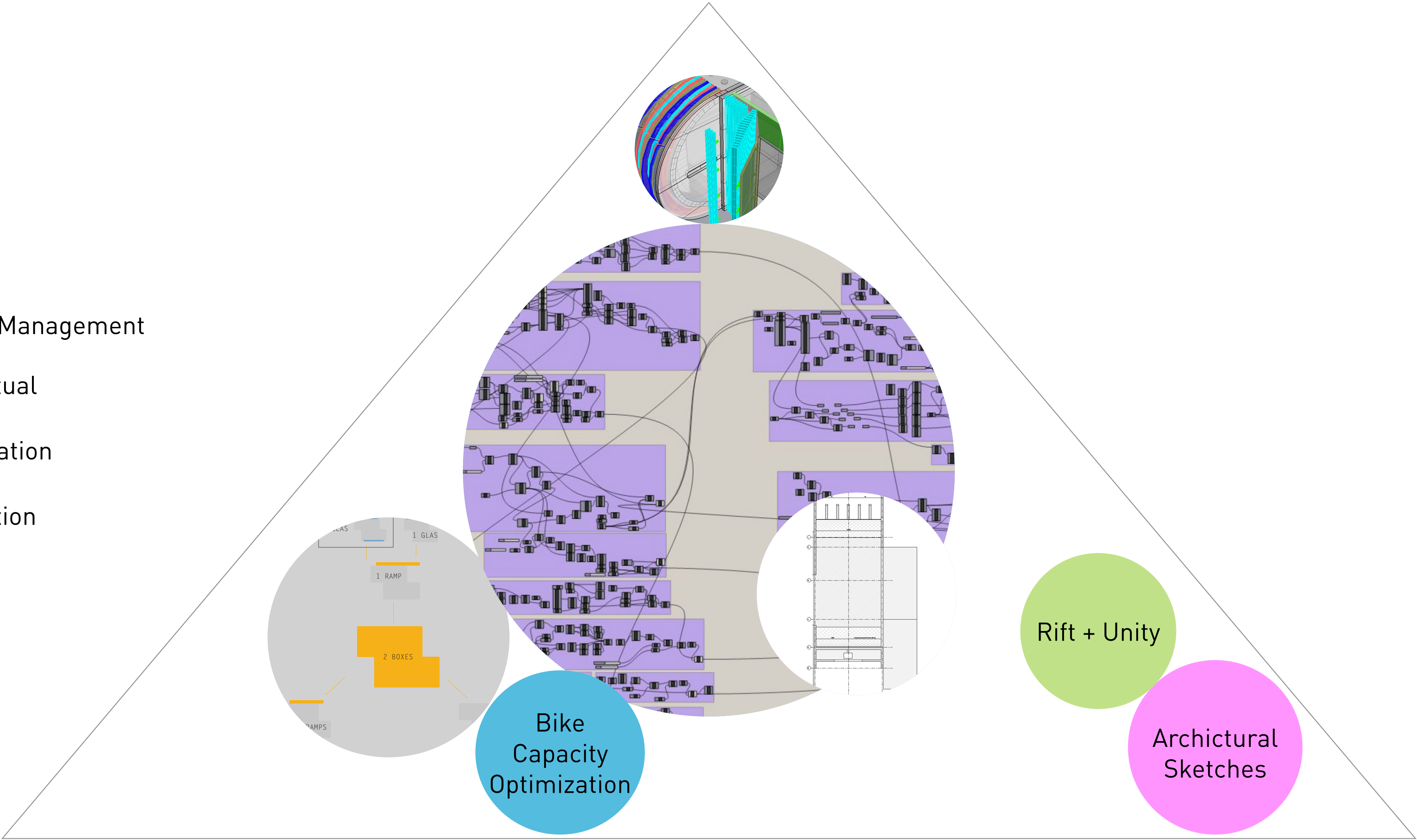


PHASE “Schematic Development”

FABRICATION-DRIVEN WORKFLOWS

ZBox / WOODEN PROTOTYPE

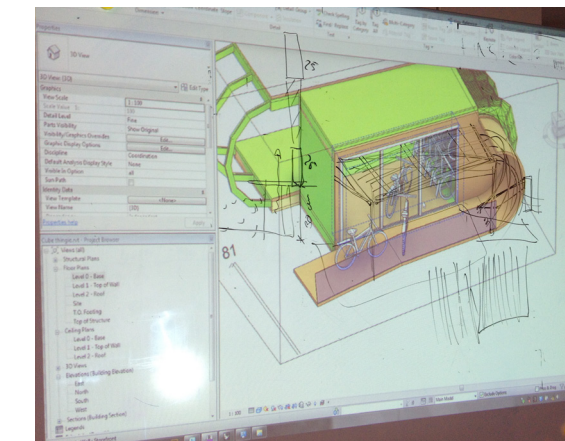
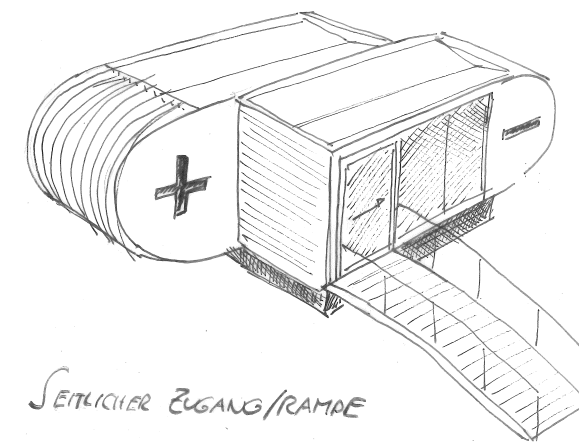
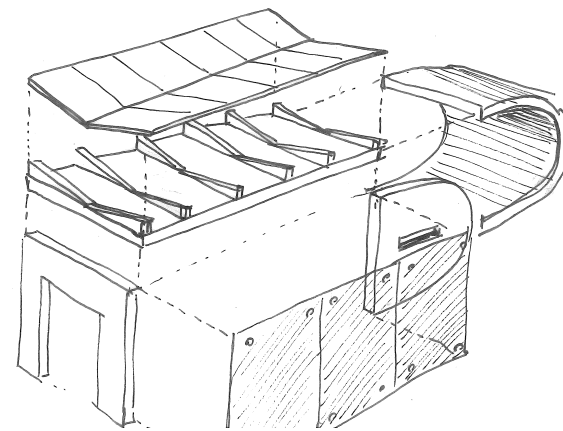
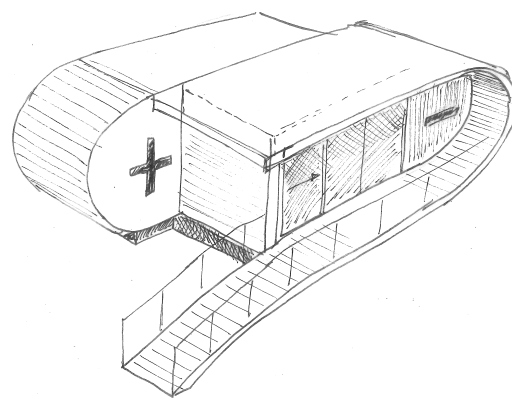
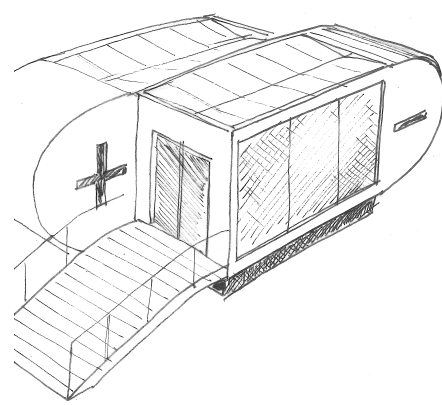
- Project Management
- Conceptual
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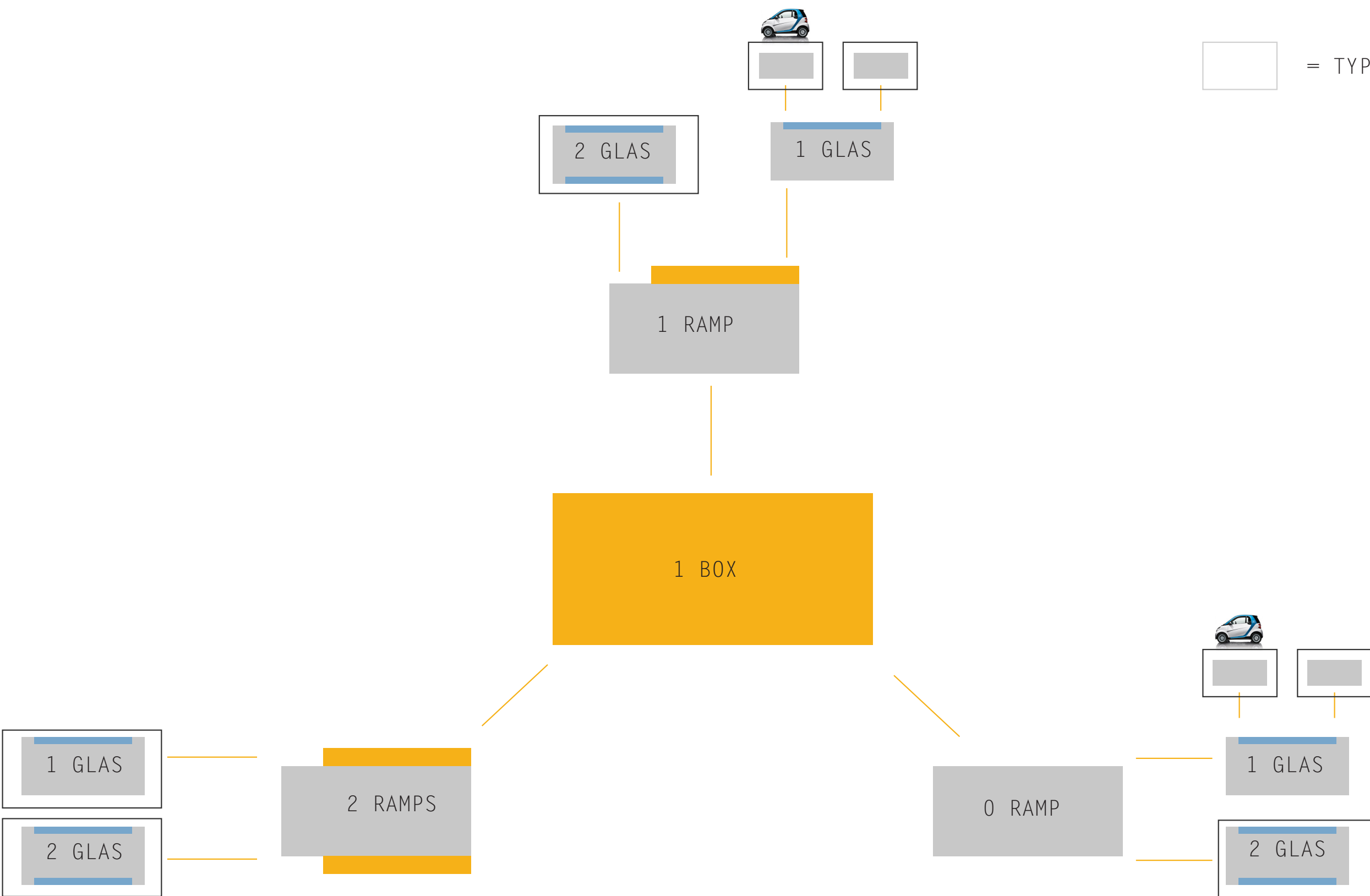
COST  
EFFICIENCY

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AESTHETIC

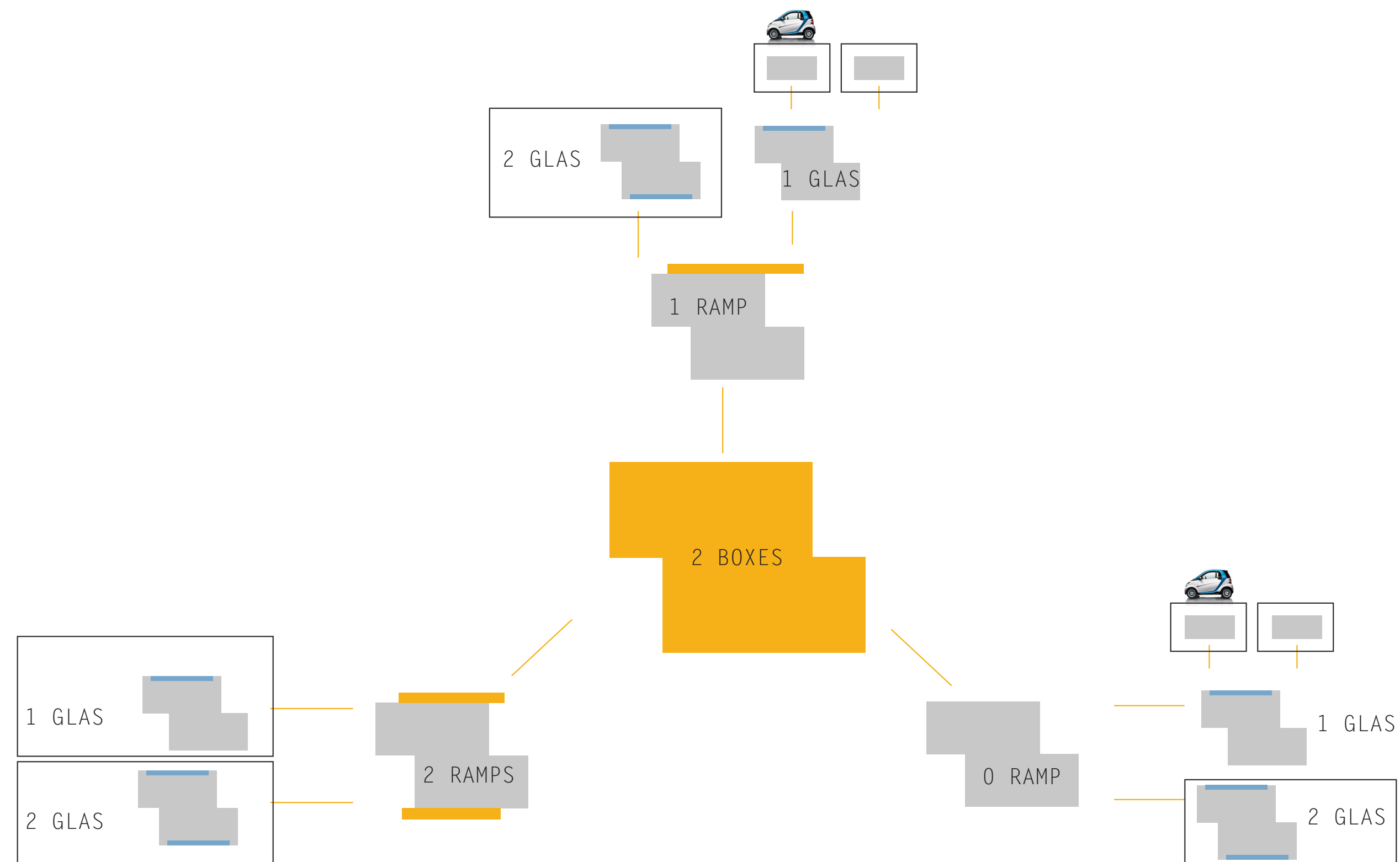




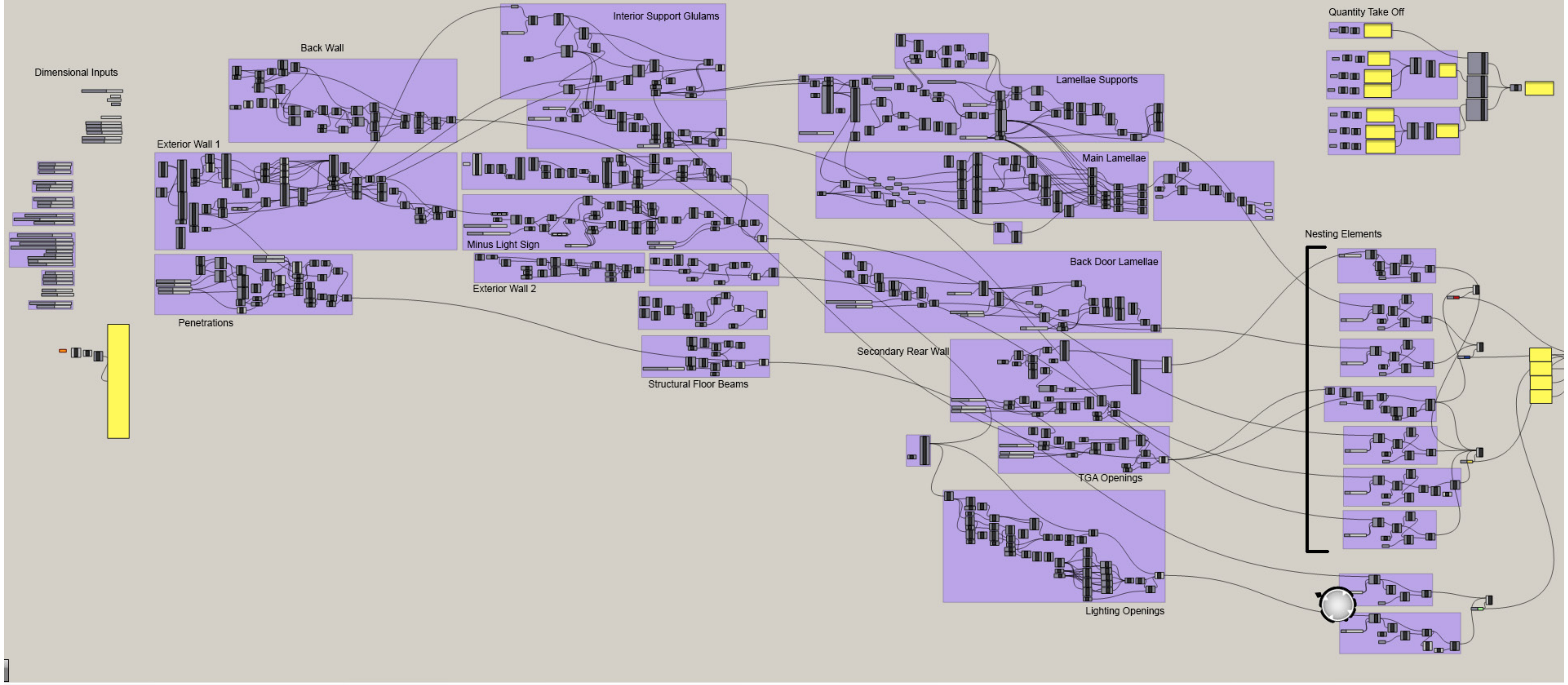
ZBOX Menu / 1Box



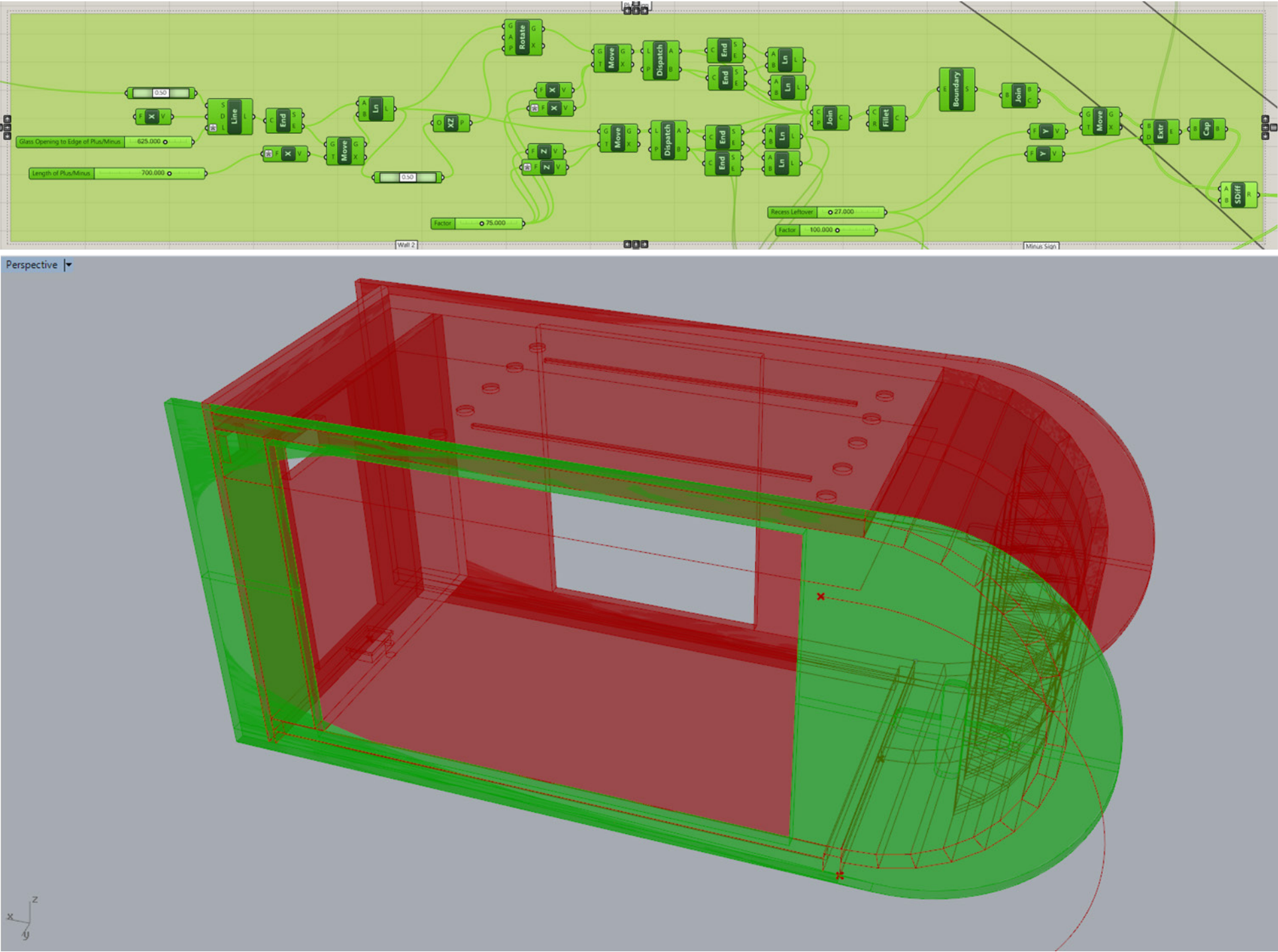
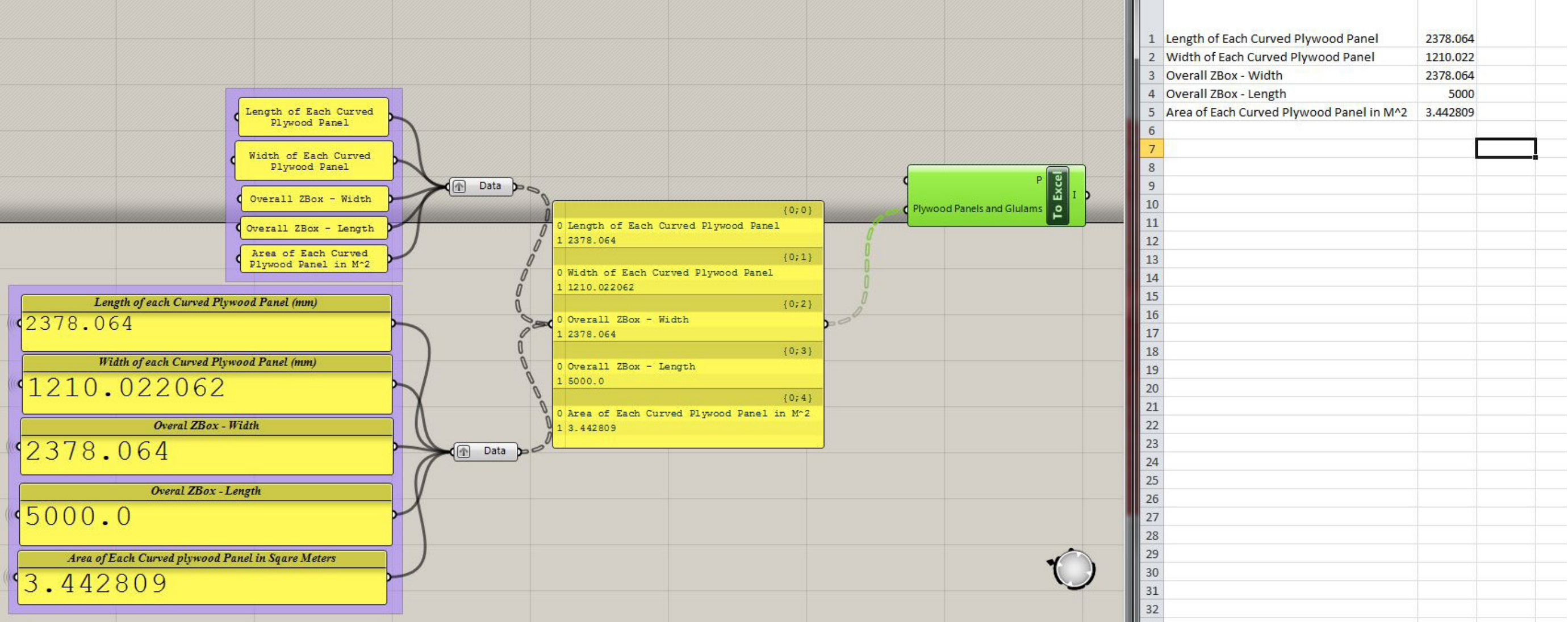
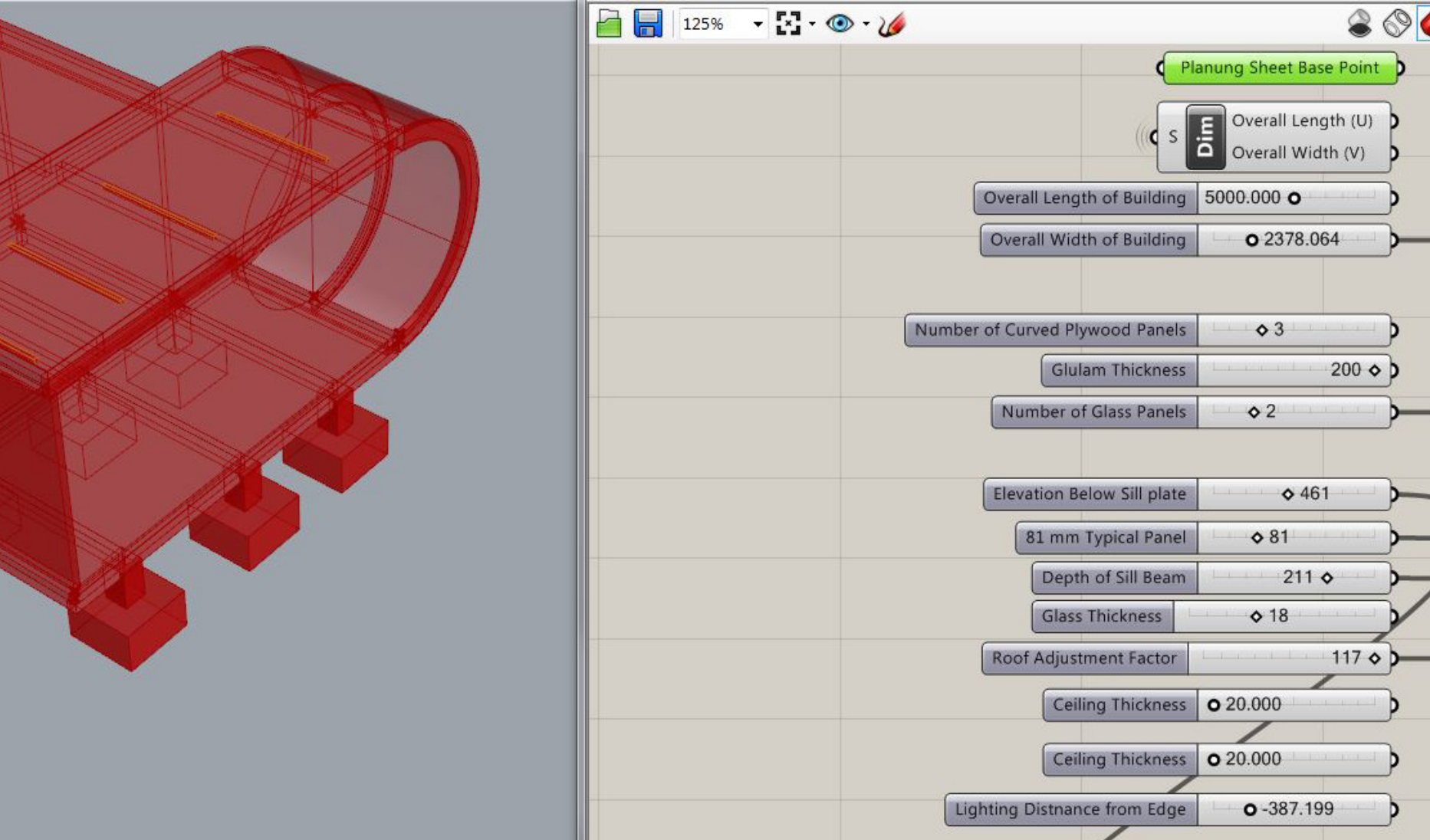
ZBOX Menu / 2 Boxes



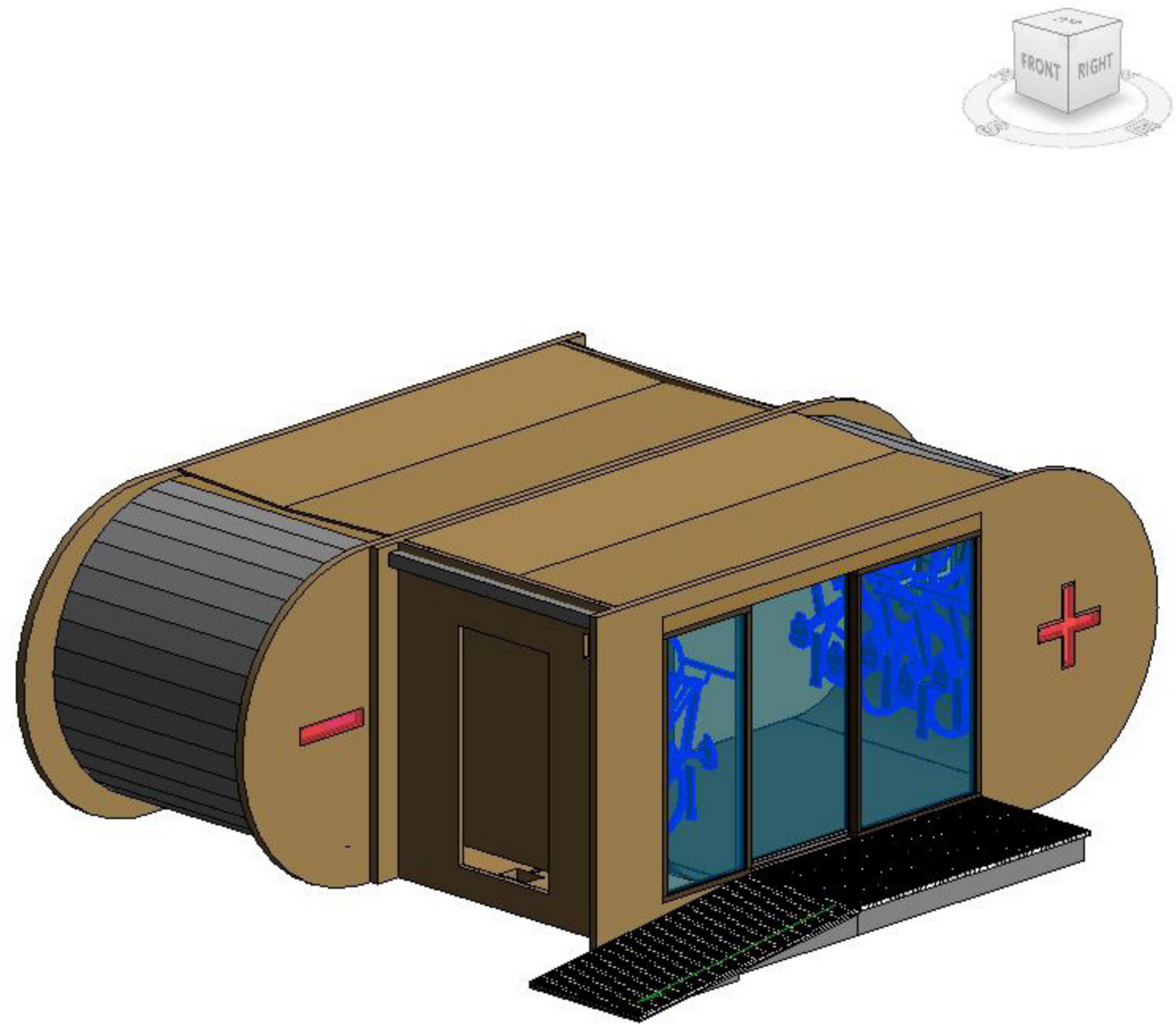
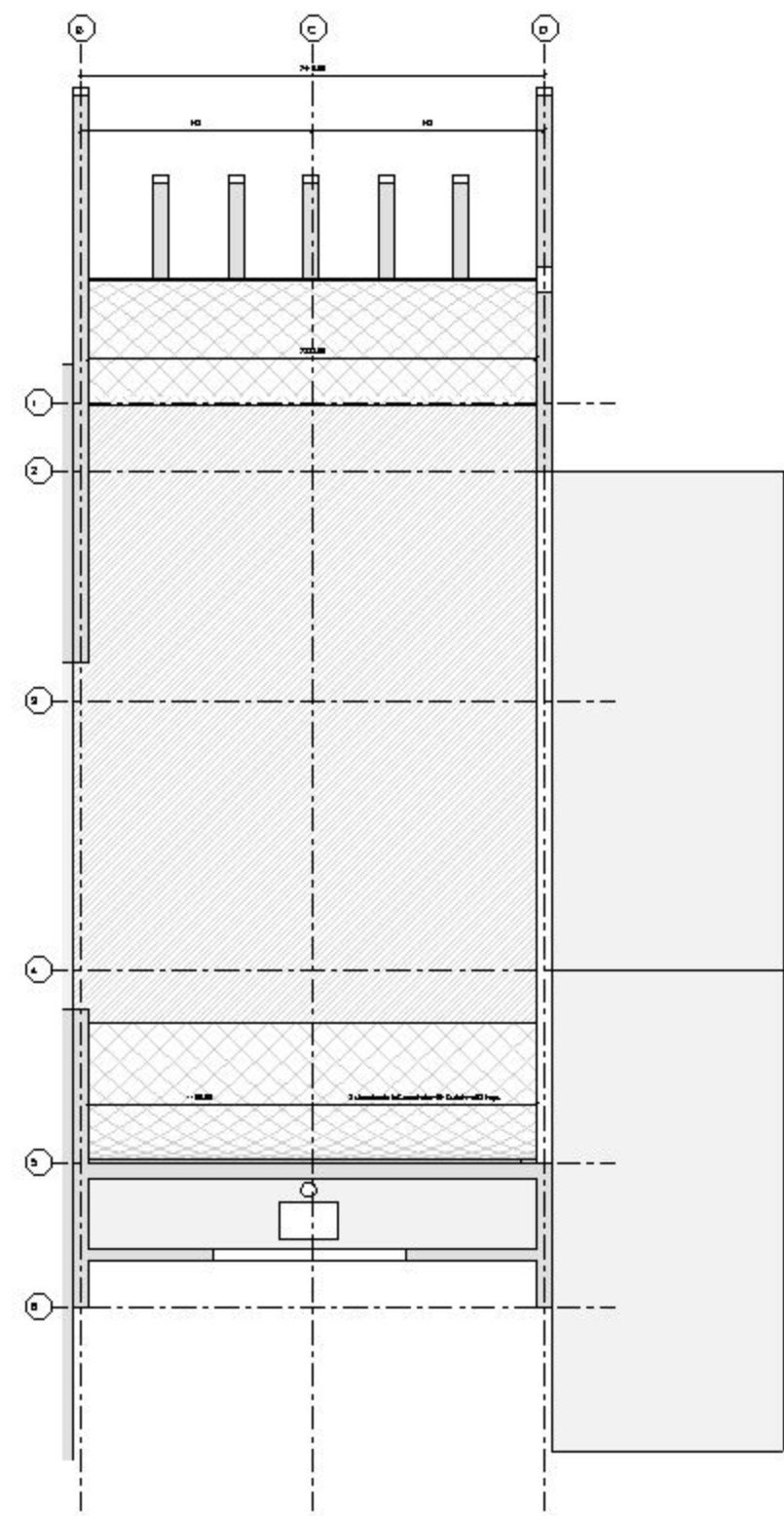
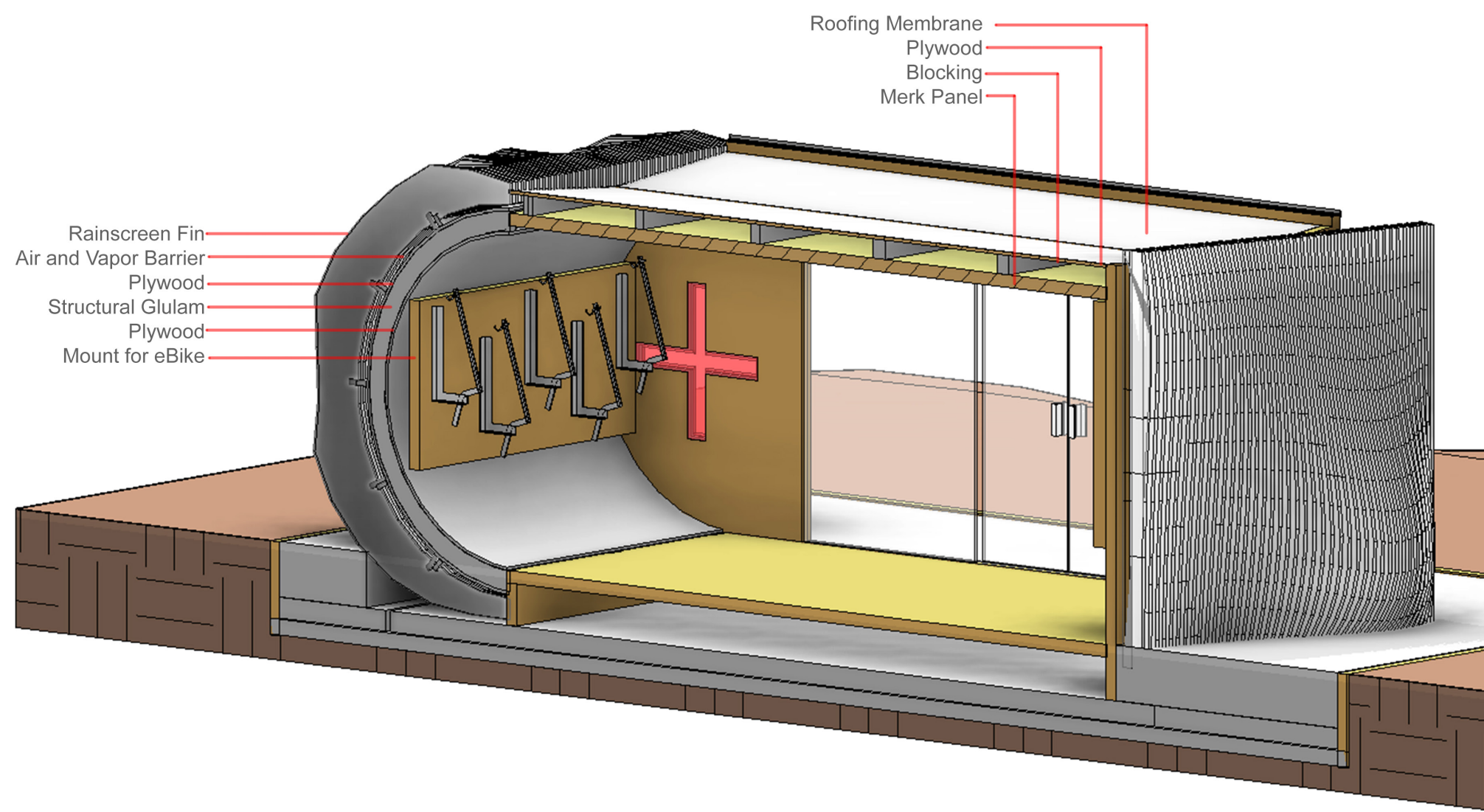




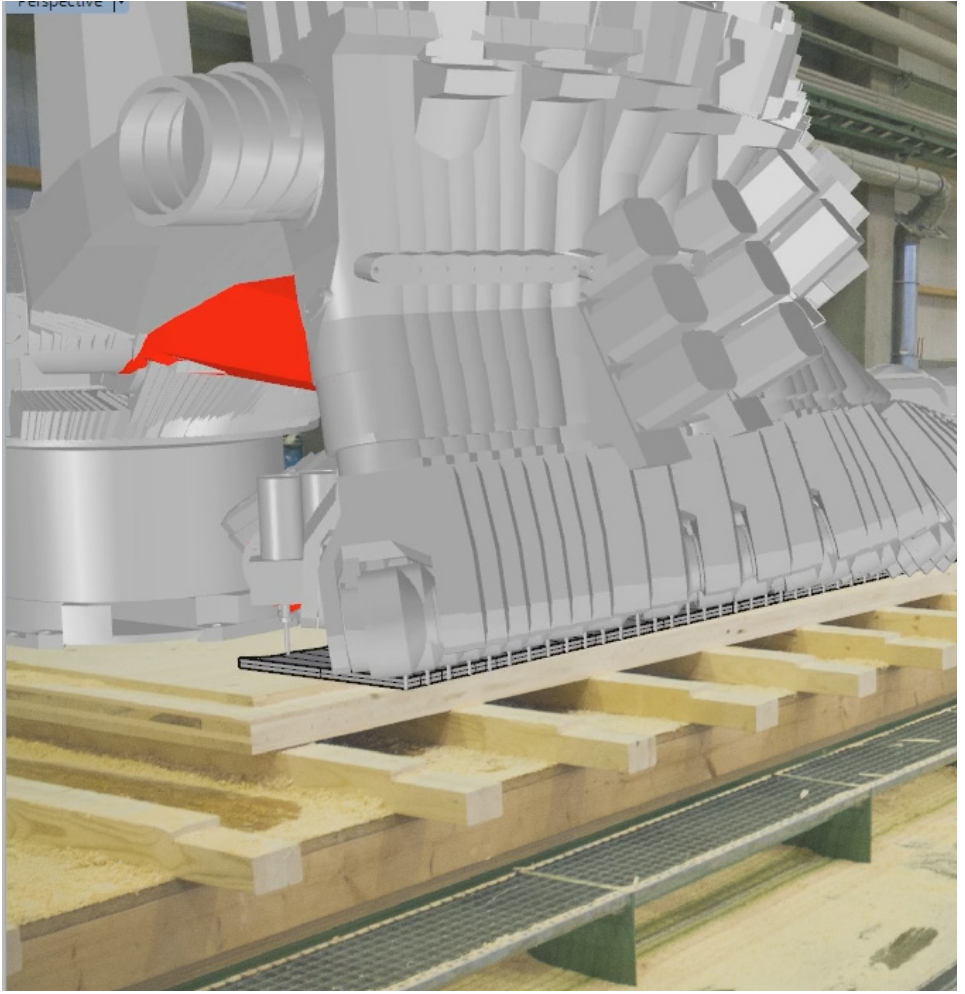
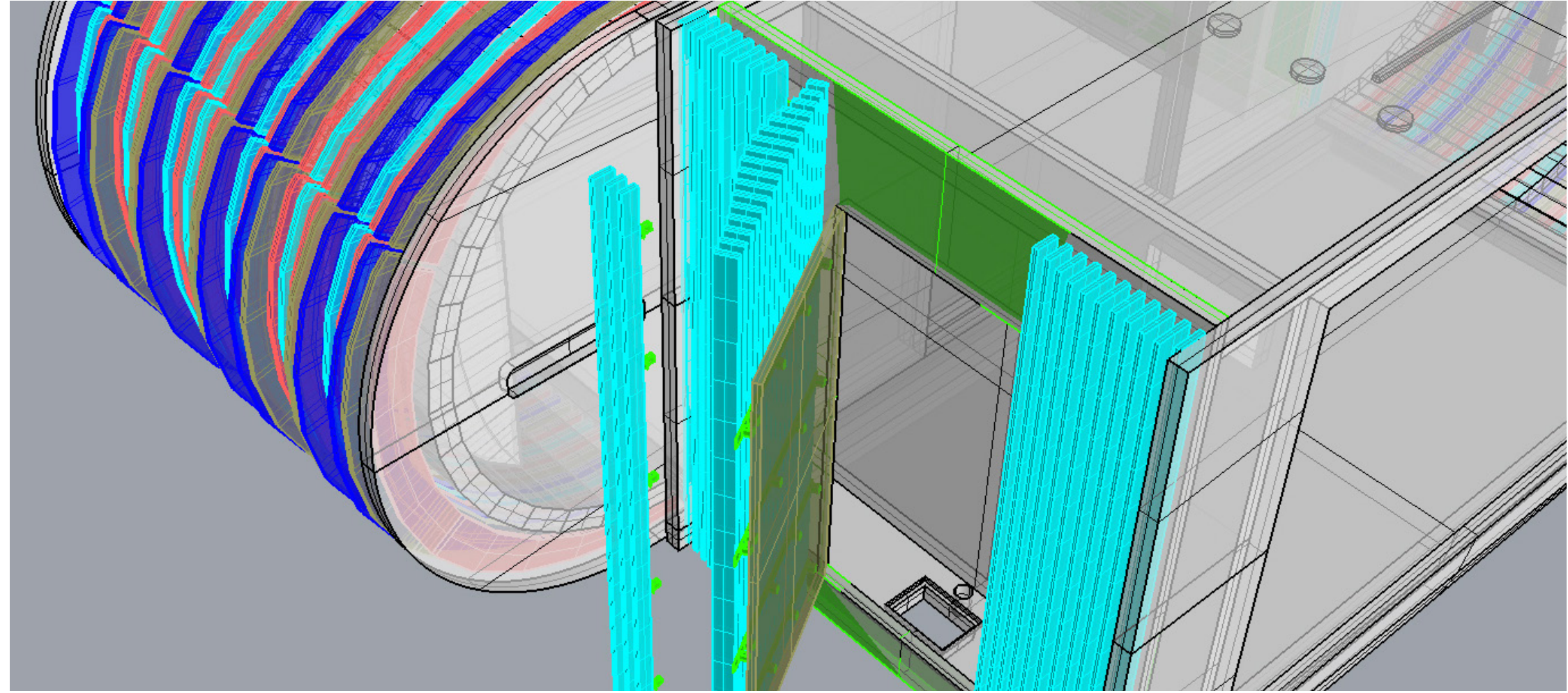
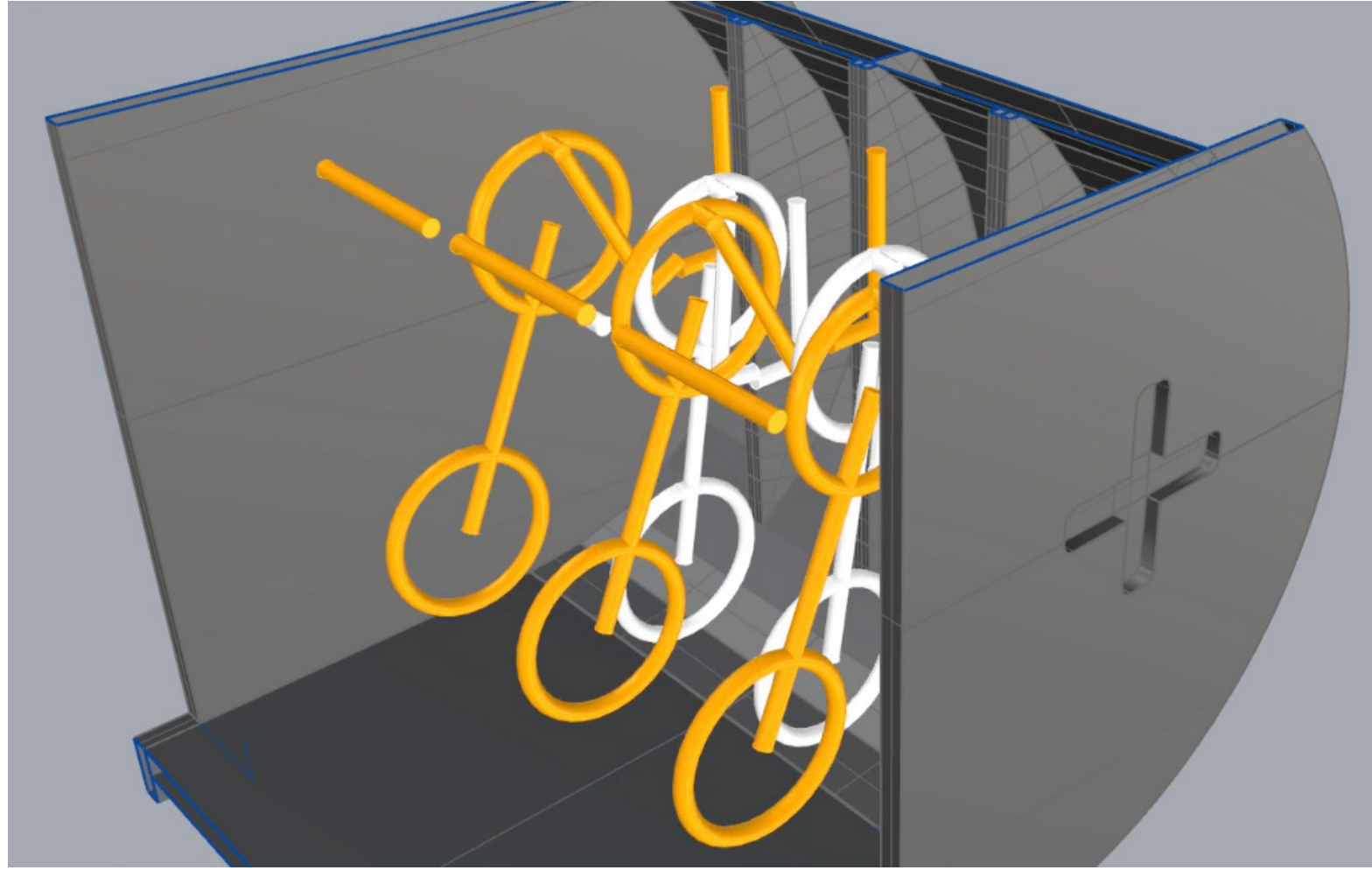




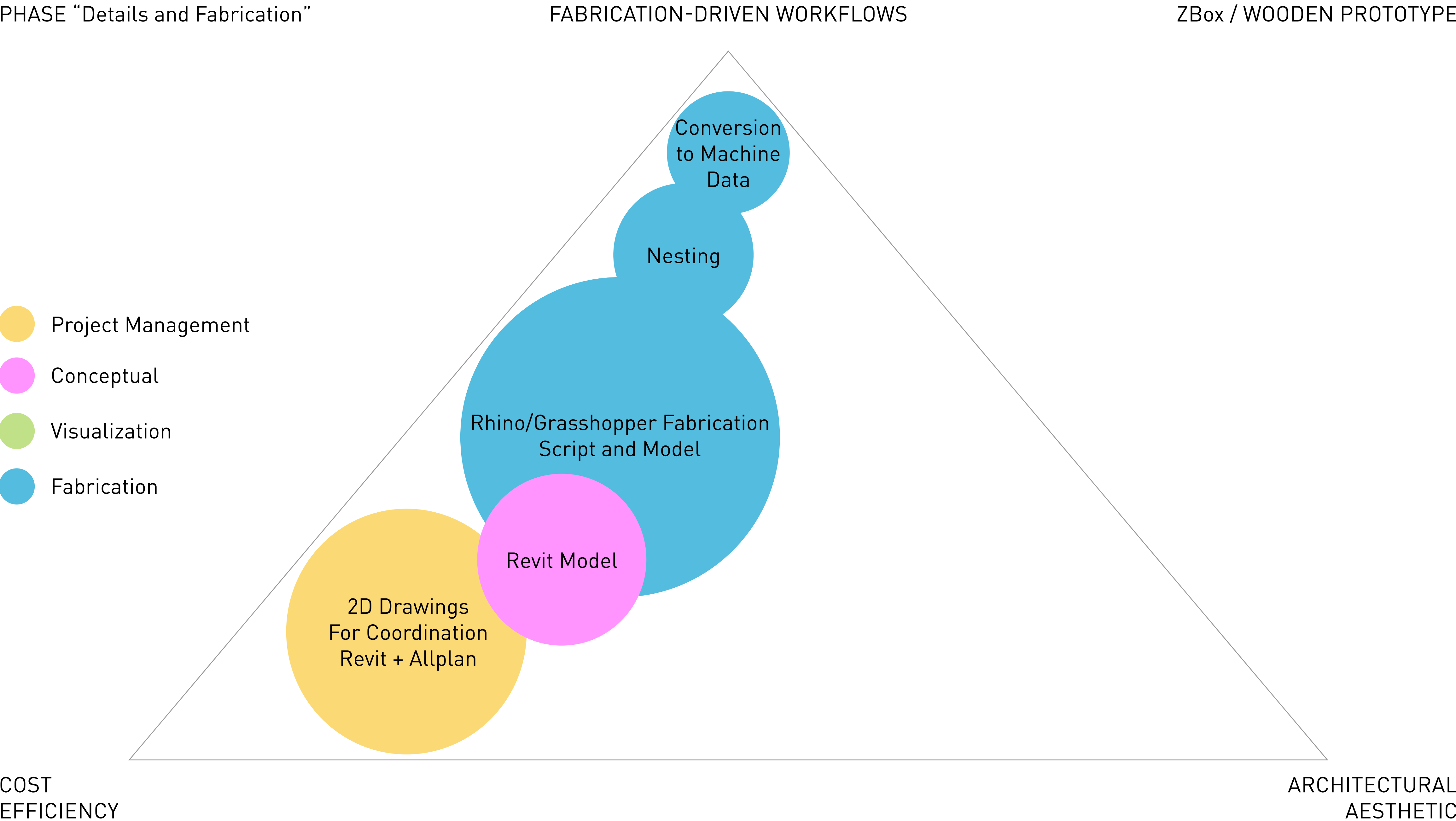












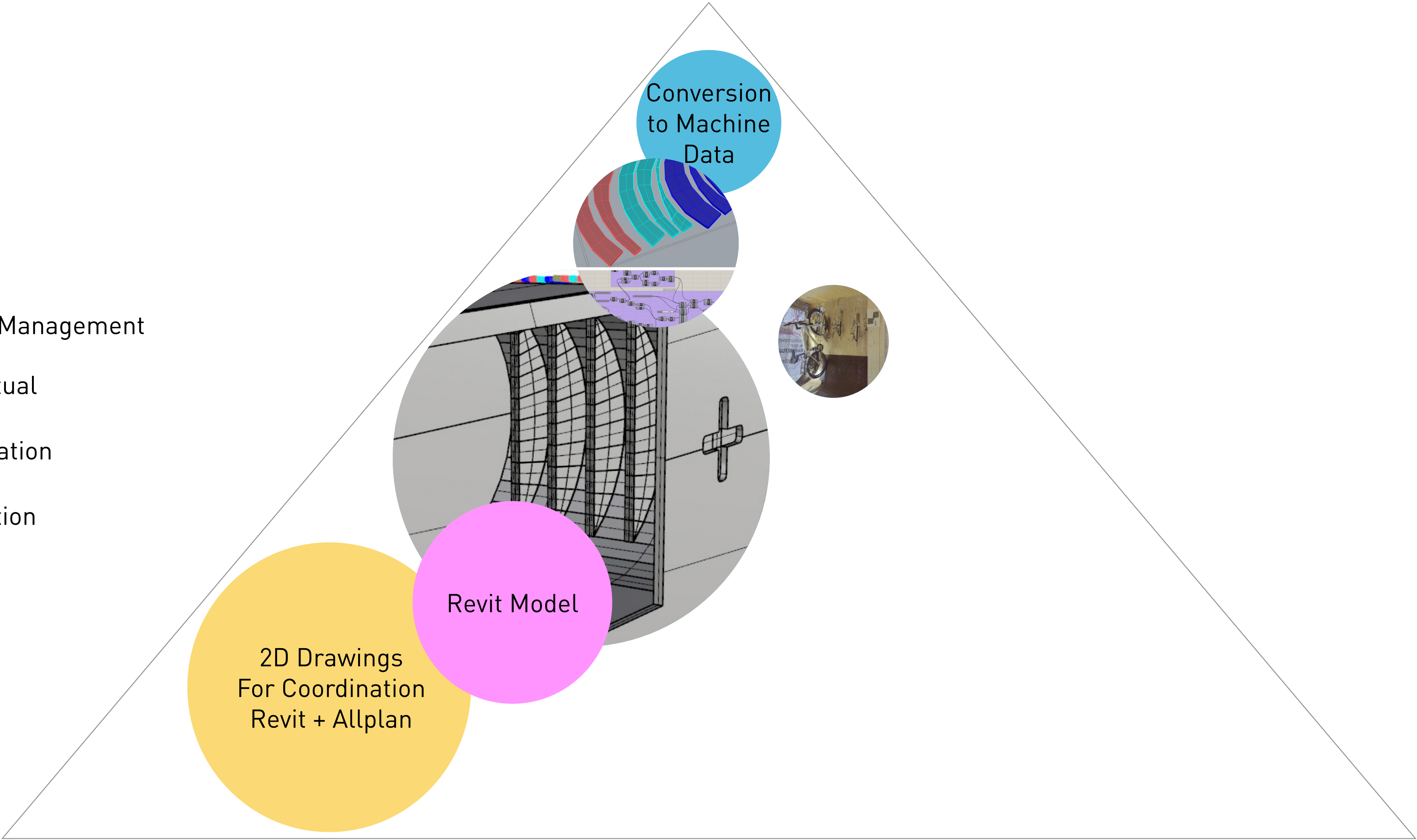


PHASE “Details and Fabrication”

FABRICATION-DRIVEN WORKFLOWS

ZBox / WOODEN PROTOTYPE

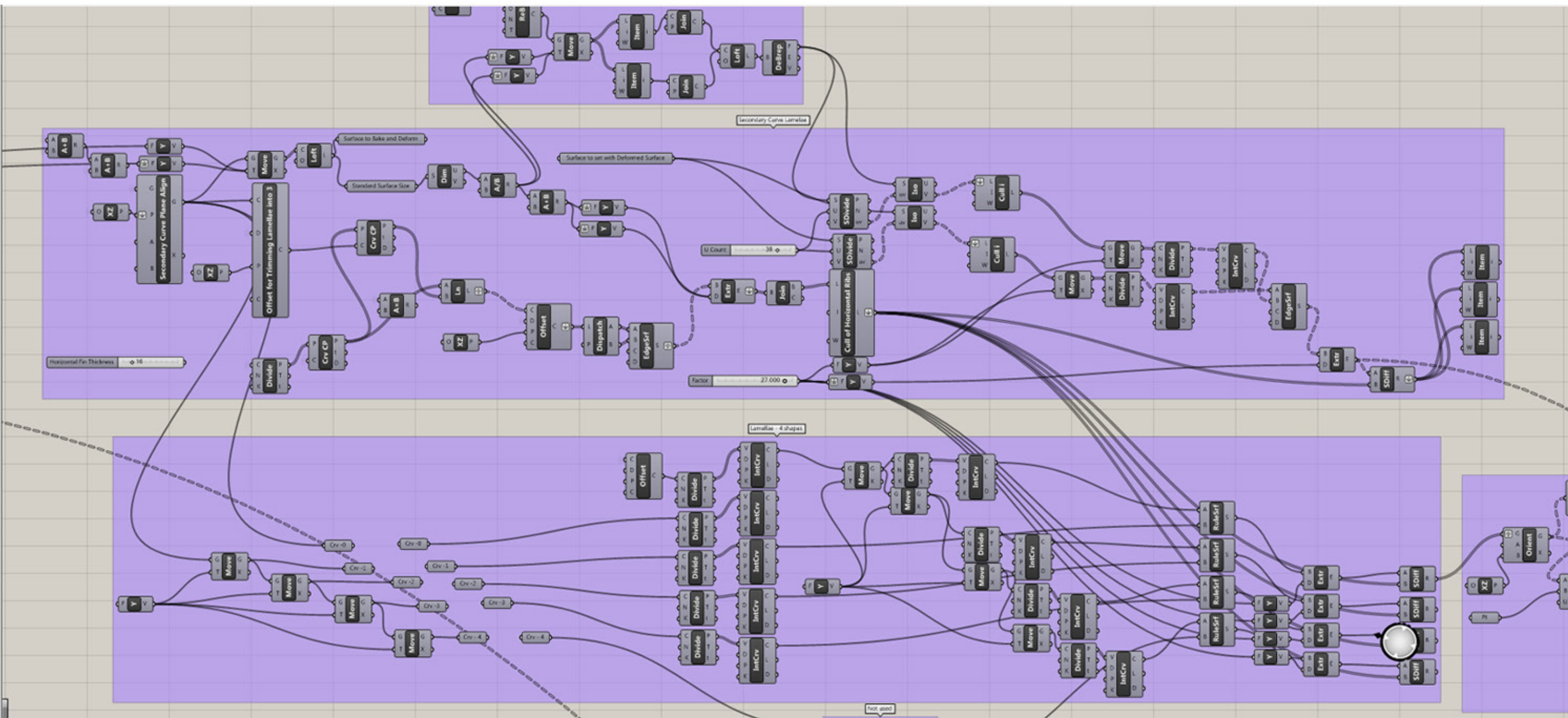
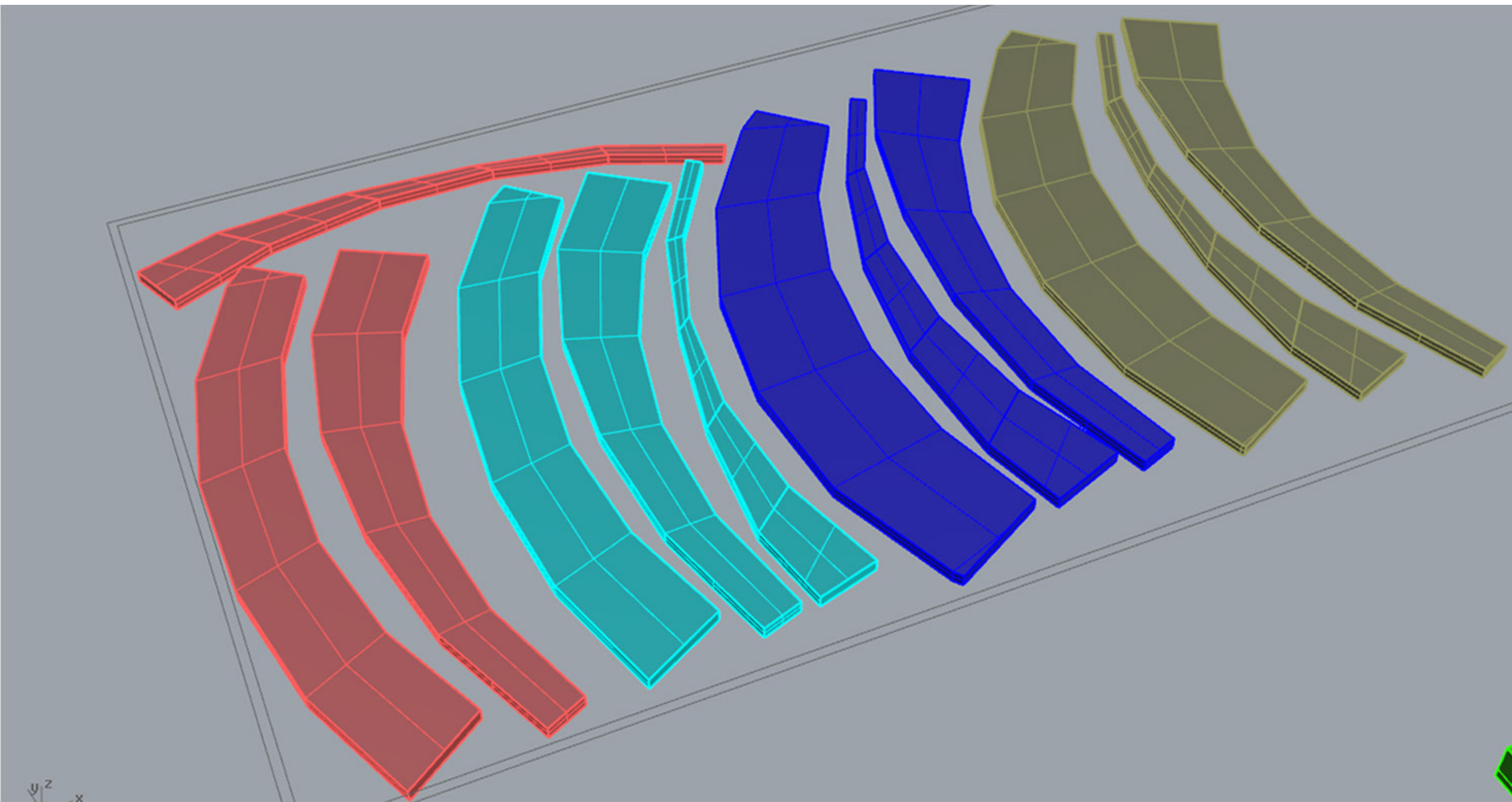
- Project Management
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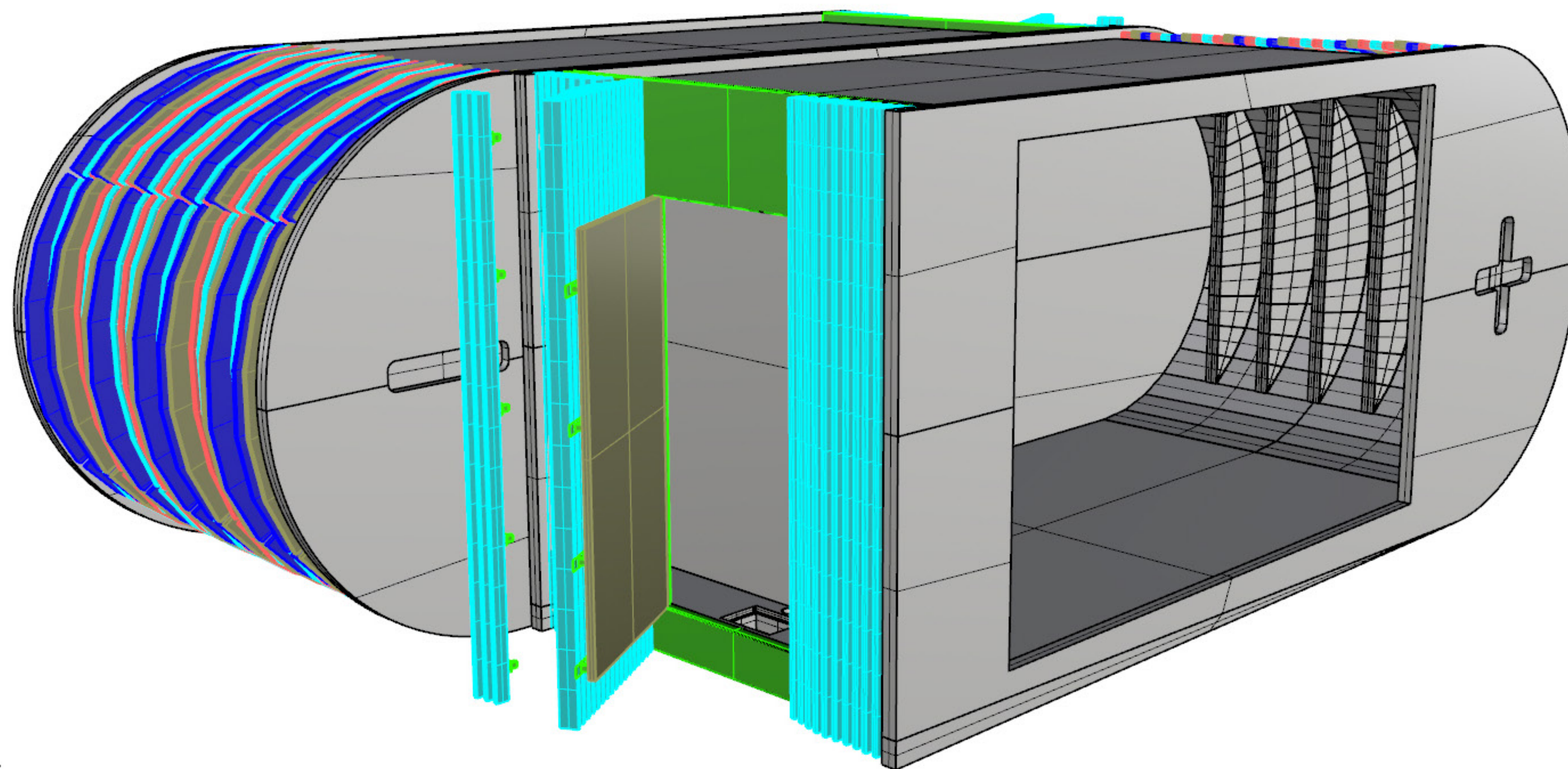
COST  
EFFICIENCY

ARCHITECTURAL  
AESTHETIC





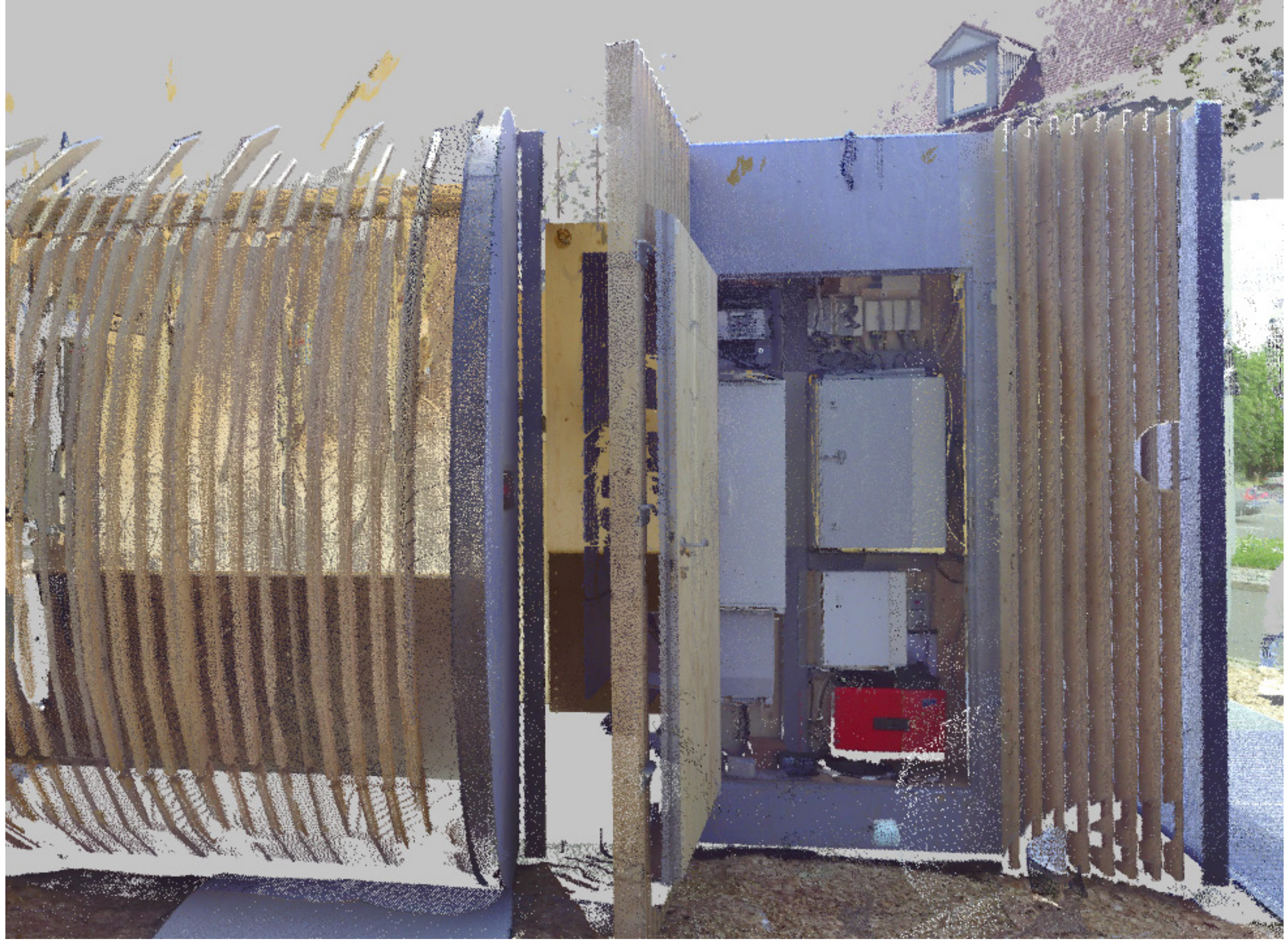






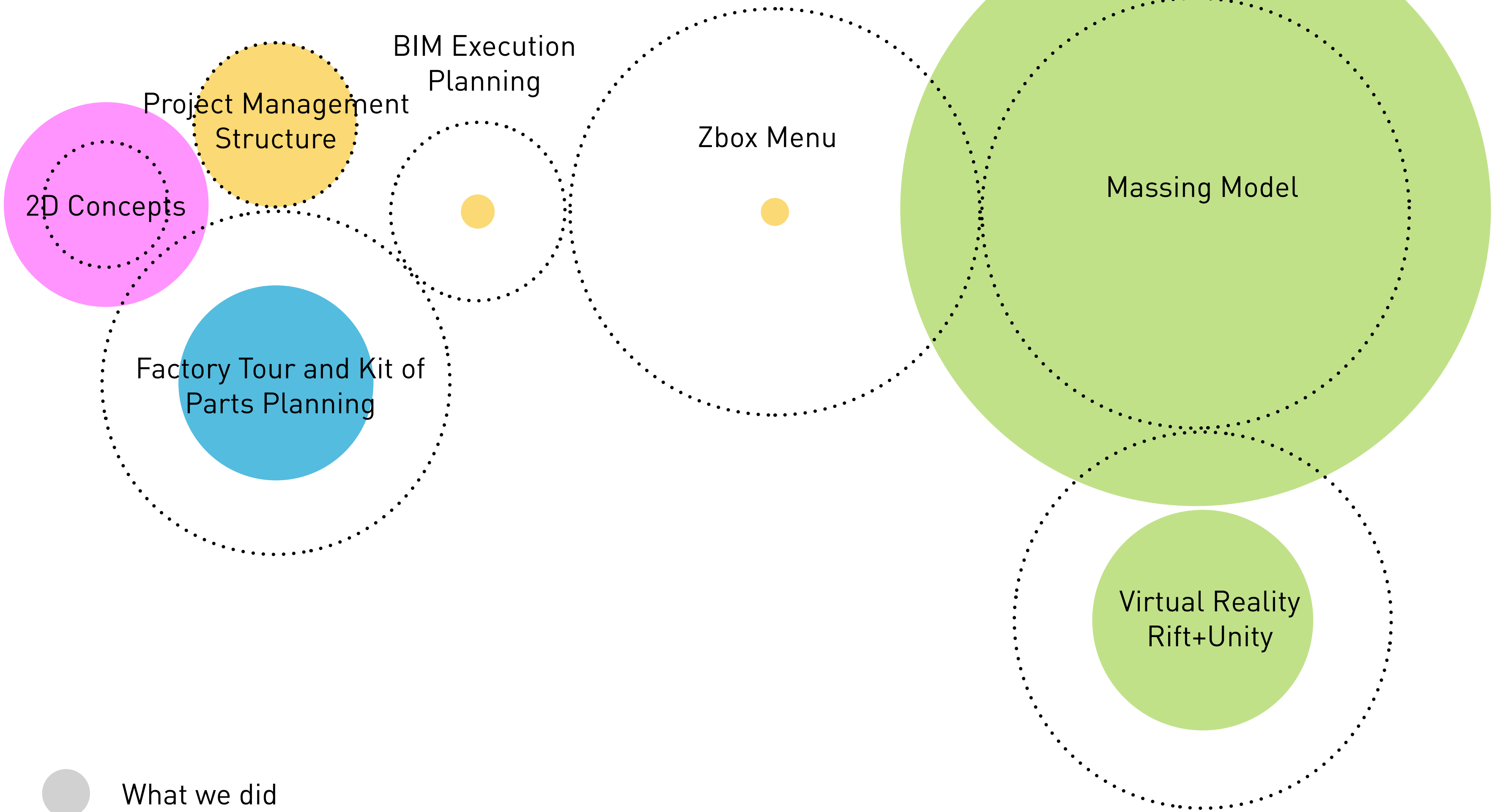












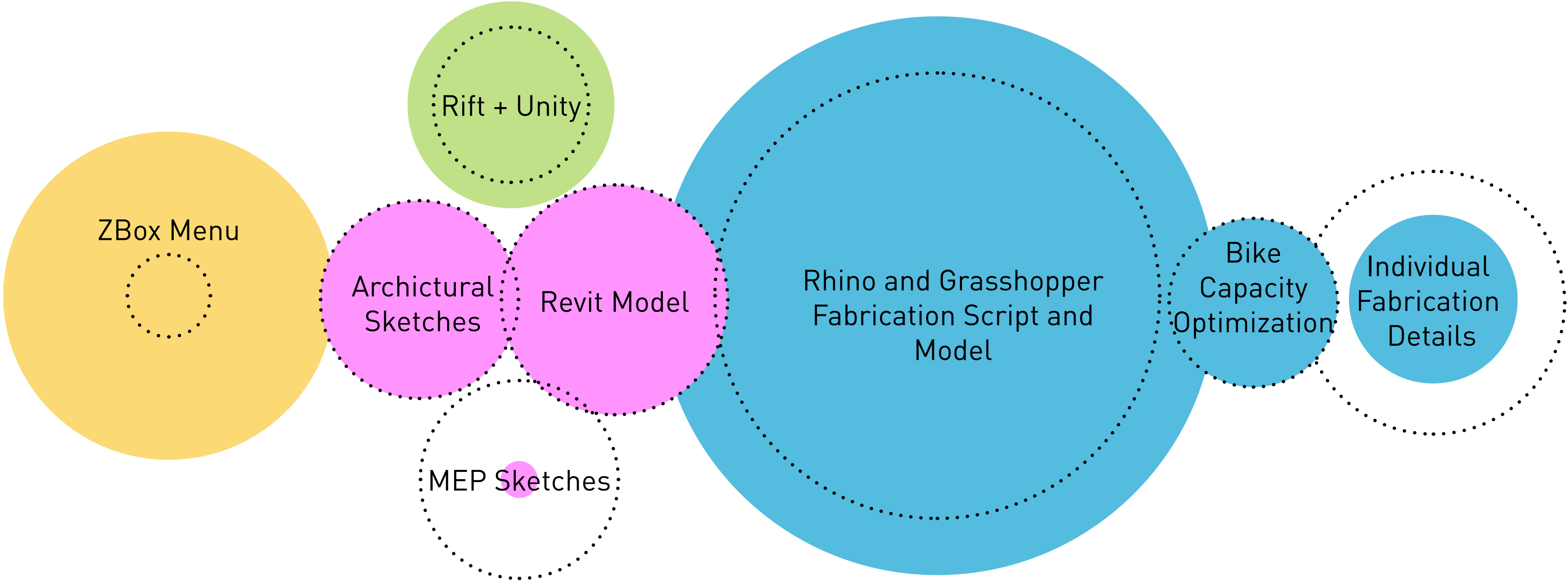
- What we did
- ⋯ What we should have done



Time Spent

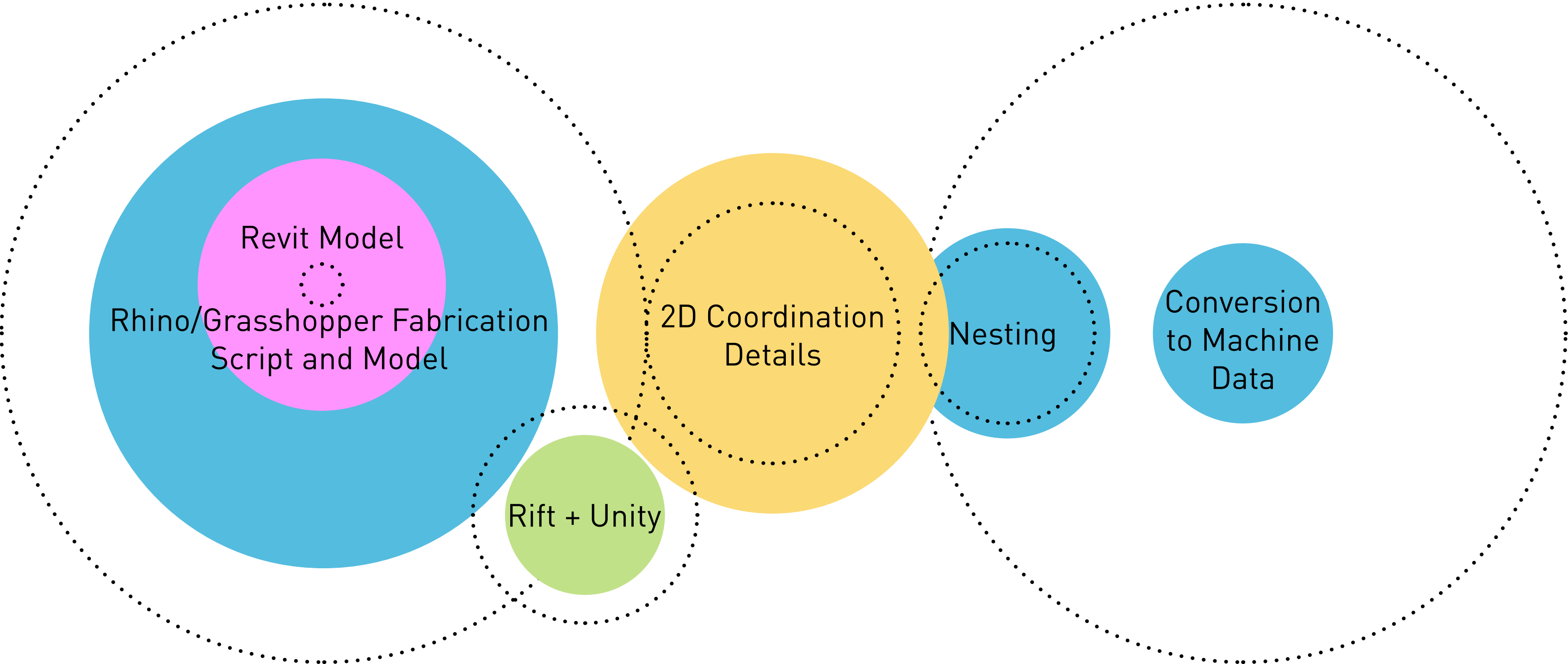
Anticipated Time Savings





● What we did  
⋯ What we should have done





- What we did
- ⋯ What we should have done









DEFINE SCOPE GRAPHICALLY AT THE VERY BEGINNING



KEY TAKE-AWAYS

ZBox / WOODEN PROTOTYPE

DEFINE SCOPE GRAPHICALLY AT THE VERY BEGINNING





DEFINE SCOPE GRAPHICALLY AT THE VERY BEGINNING



REFINE YOUR (DATA) TRANSITIONS, WORK ON THEM AND DONT BE AFRAID TO MAKE MISTAKES.



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THERE IS ALWAYS ROOM FOR IMPROVEMENT - SUBSEQUENTLY TRACK YOUR SUCCESSES AND FAILURES



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SMALL, PASSIONATE TEAM WORKED TOGETHER SEAMLESSLY WITHIN A SIMPLE CONTRACT STRUCTURE



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ROBOTICALLY BUILT, ADAPTIVE PROTOTYPE FOR MODULAR, WOODEN COMMERCIAL CONSTRUCTION



KEY TAKE-AWAYS

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ROBOTICALLY BUILT, ADAPTIVE PROTOTYPE FOR MODULAR, WOODEN COMMERCIAL CONSTRUCTION



LOVE WHAT YOU DO, OTHERWISE LIFE’S TOO SHORT. MAKE WORK FUN!



KEY TAKE-AWAYS

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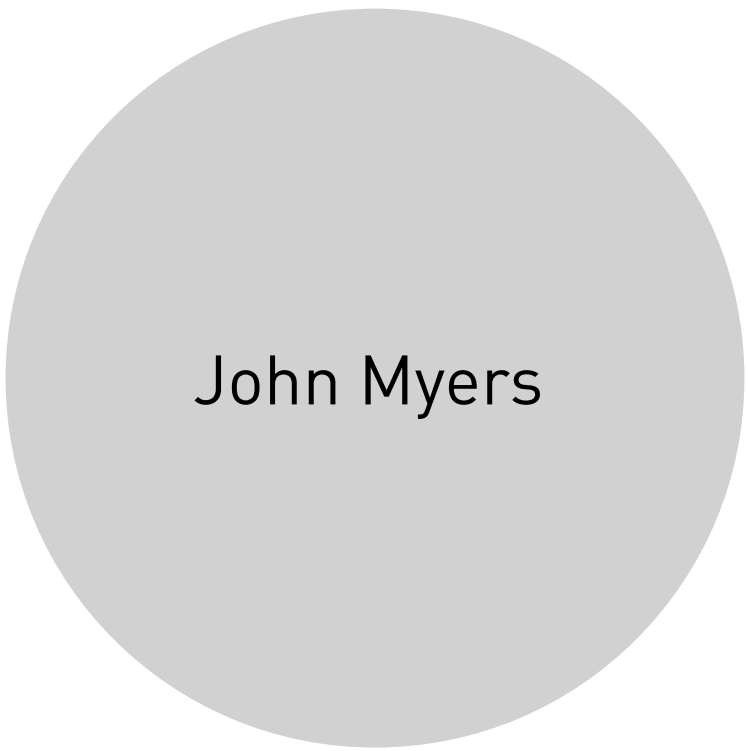




QUESTIONS?



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