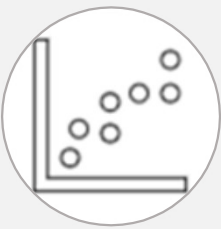


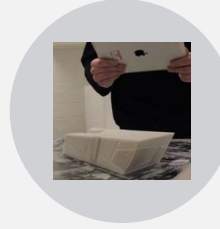
# "What is the user response to complex facades created with digital fabrication, measured through mixed reality, and how does it inform future construction trends?"



Data Driven Façade Design



Multi-objective optimization for Façade



Tangible Visualization



Immersive Simulation



VR interface  
eMPOWERING USER  
CONTROL



VR APPLICATION  
FOR FAÇADE  
ANALYSIS

## VR Application



- Building Manipulation
- Data visualization interface
- Optimized recommendations

## Experiment

### 1) Quantitative



Physical mockup model



VR interaction

### 2) Qualitative



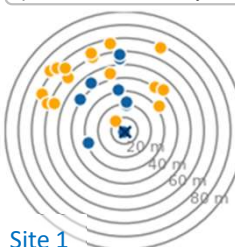
Post-interaction Survey stage

### Conditions:

- 1 Building, 3 façade patterns

## Stats. Analysis

### 1) Tolerance Analysis

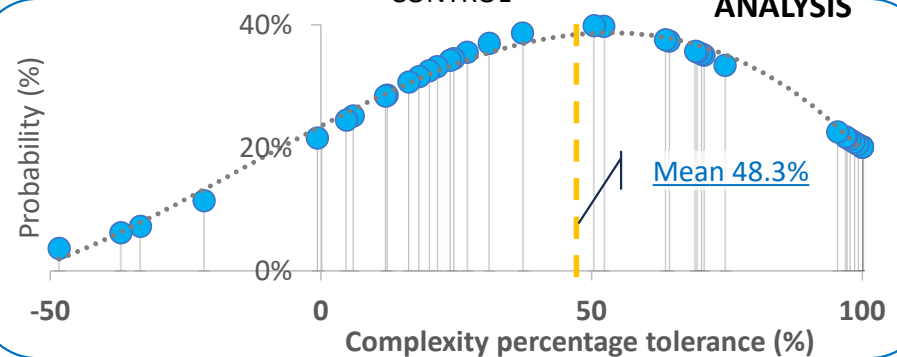


Site 1

- Screen-based answers
- VR answers
- Top recommended location

### 2) Survey analysis

- Participant Background
- Perception of complex
- Usability of MR, models



## CONCLUSION:

There is an x tolerance towards complex façade with preferred patterns following XXX shapes. How does the integration of digital fabrication in complex facades influence user tolerance and acceptance, as quantified through a mixed reality experiment, to refine understanding of complex facade design and investigate correlations between user preferences and predictions in shaping future construction trends?

## Experiment Design