

# CHAKKARAT WONGTHIRAWAT

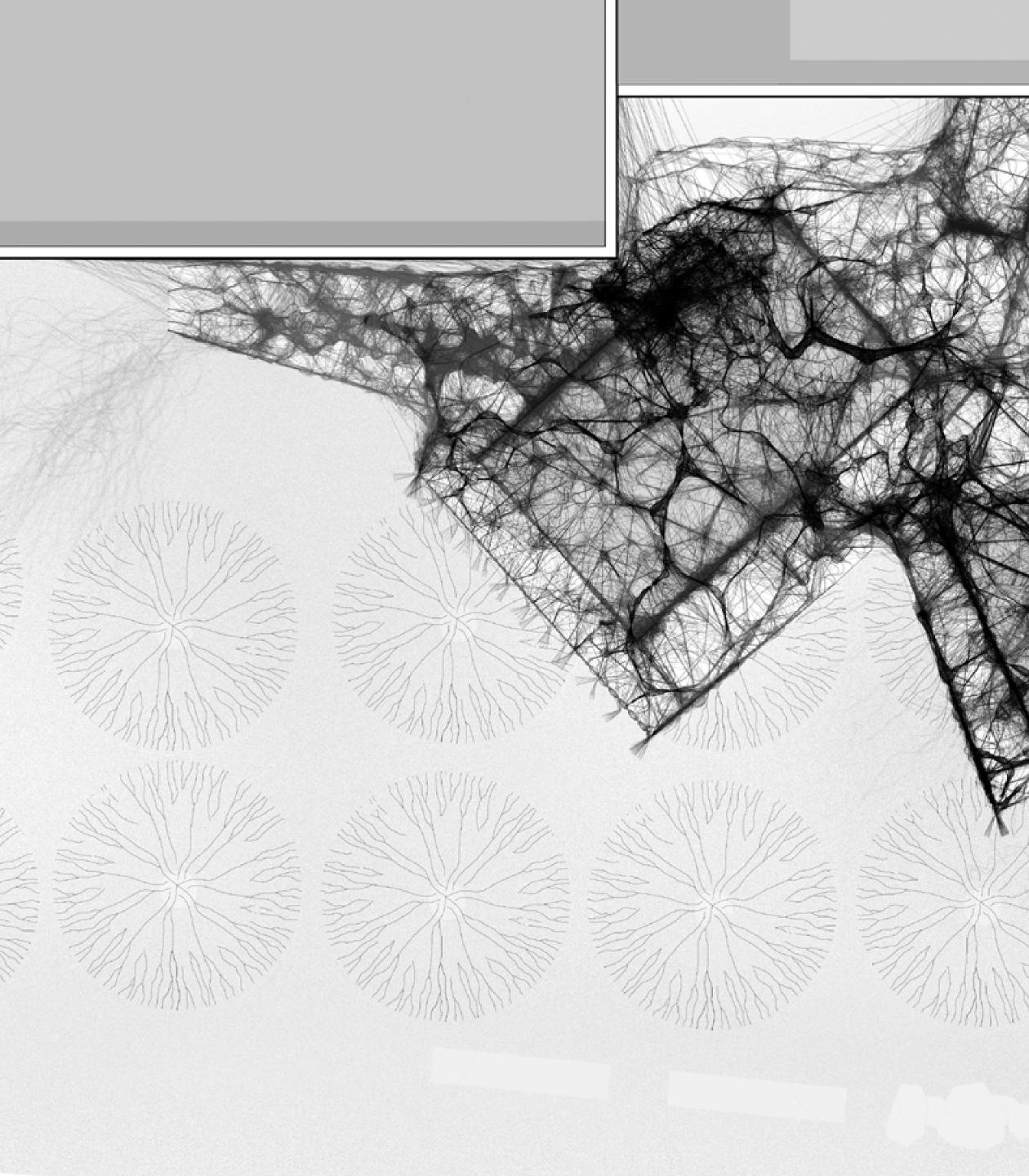




### SAC MASTER THESIS 2015 THE GARDEN ARCHIVE

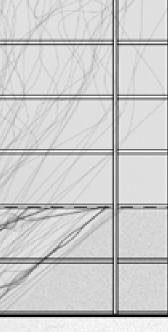
HIGH RESOLUTION DIVERSITY

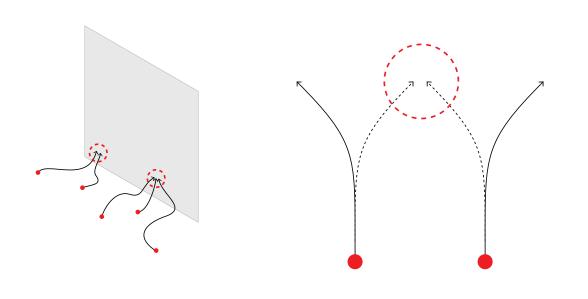


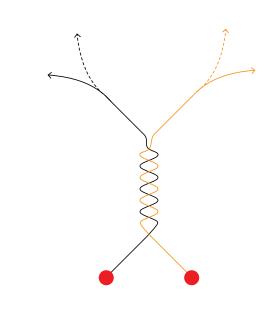


By challenging architectural perception in term of building resolution, the sensational effects of the emerging spaces encourage the occupants to reinterpretate how to reside and maintain in such a peculiar architecture. The fibrous implementation celebrates the complex comprehensiveness of the system which facilitate the uniqueness of each individual situation to emerge in the project.

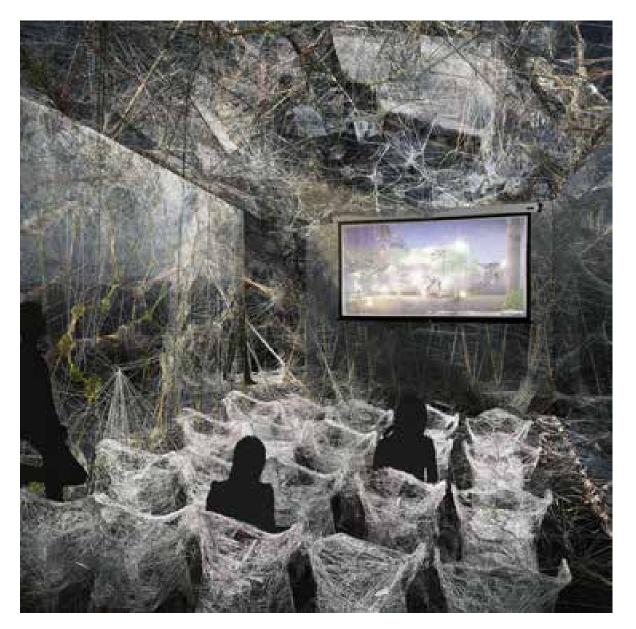
The Garden Archive is directly connected to the Aula of Staedelschule for the capacity extension and utilities for supporting the school. The aim of project is to investigate the design according to the subject of "Trans-scalar diversity Microclimatic articulation". The morphogenesis of fiber intertwinement in high resolution emerges the diverse level of complexity in the dimension of architectural elements and space density.





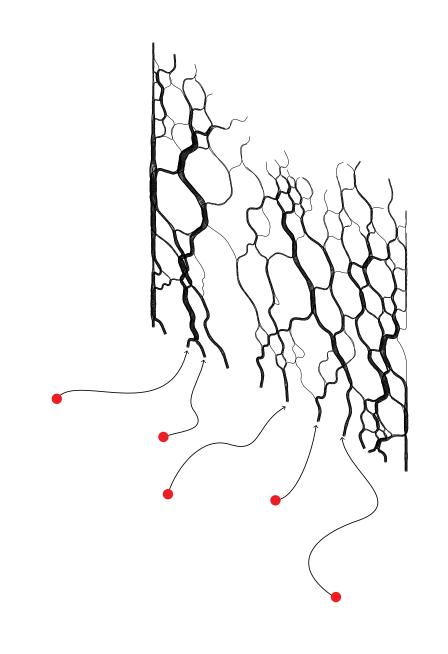


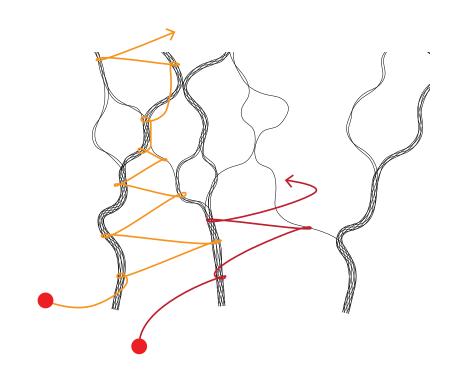
First layer of Buddling: Grid





Conference Room



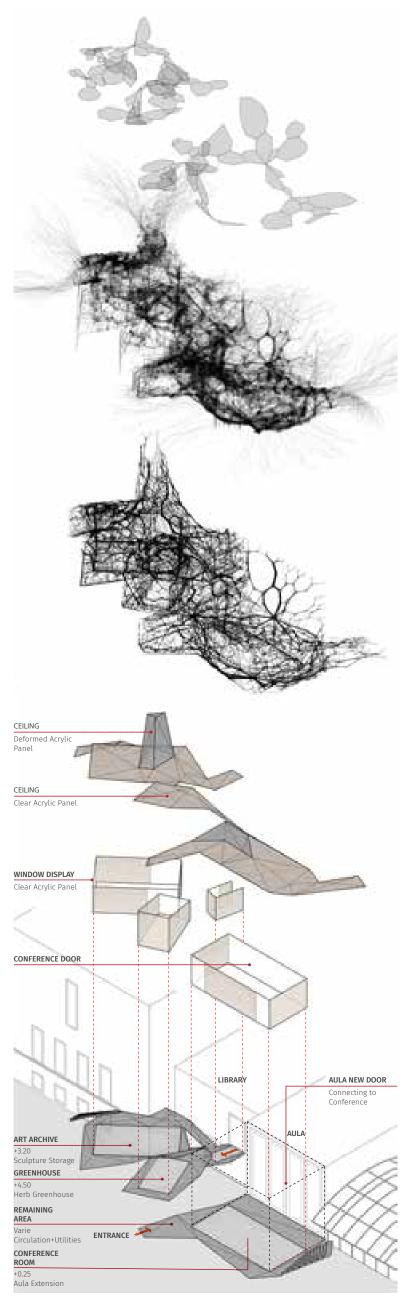


Second Layer of Bundling: Bondage

Lecture Room



Art Archive



**FACADE** Different level of Acrlic panel Deformation

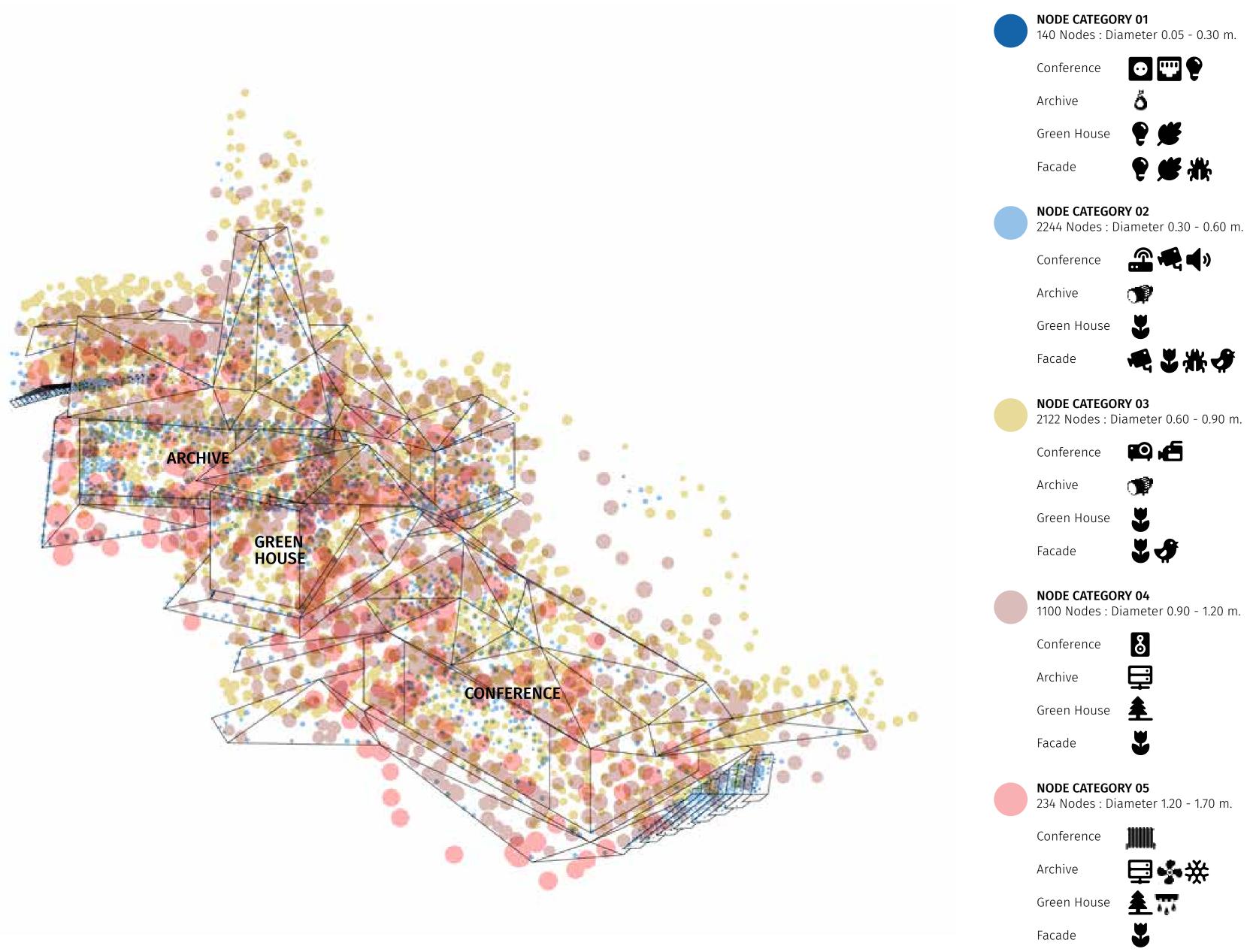
BONDAGE Tension Structure

BUNDLE Main Structure

CEILING Gradiation of Acrylic panel Dimension and Distribution

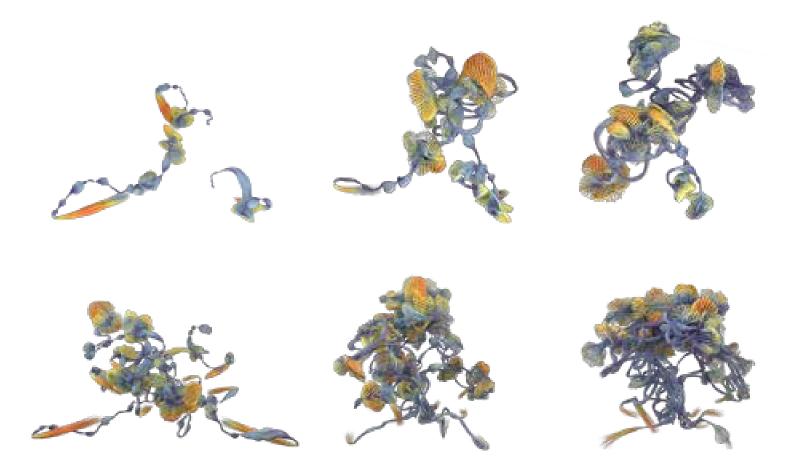
WALL Gradiation of Acrylic panel shape deformation Gradiation of Acrylic panel Dimension

FLOOR Conference = 33.6 sq.m. Greenhouse = 11.25 sq.m. Archive = 26.00 sq.m. Remaining Area = 102.41 sq.m.



### SEQUENCE OF MORPHOGENESIS DATA MANIPULATION

From a study of diversity of one plant elements, the task is to generate a sequence of an abstract object morphing effected by embeded data and parameters. There are 2 types of sequences emerged: Growth (Iteration) and Quantity (Sampling points)



Sequence of Growth and Quantity



### STUDIO SCWITALLA 2015-2017

### MOBILITY/IMMOBILITY



Path Simulation from a walking data from another city



### **CREATIVE WALKING** NEIGHBOURHOOD

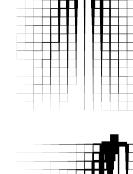
The city, which is designed around the car, is characterized by a monotonous and linear spatial experience (streets). But if we understand the city as a network of hyper connected (eg. aerial bus, subway, ...) neighborhoods, we can design those around the logic of human scale micro-mobility or even natural mobility (walking).

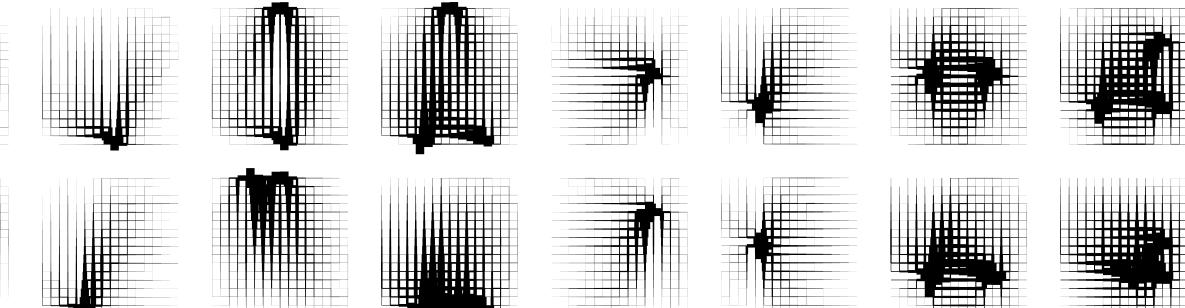
Collecting the multifaceted data, the four blocks of Barcelona, is to generate a real situation related event in order to be processed in the specific computational set up. The generated flow of people creates the gradient quality of the space, from plazas to narrow streets which are ambiguous and homogenoues but it is self navigated through the quality of the space.



#### Creative Walking Neighbourhood

Project Type	Research
Client	Schindler
Location	Barcelona, Spain
Year	2016
Team	Studio Schwitalla
Position	Architect





Gradual Fields of walking path posibilities









### AUDI URBAN FUTURE AWARD 2014

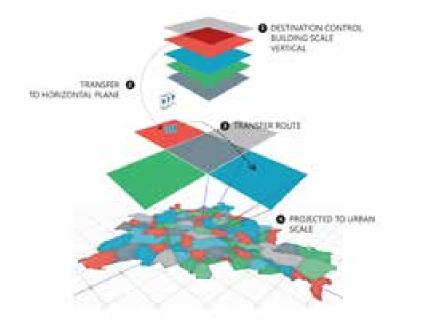
With 21st century mobility reaching its spatial and ecological limits, we have to revisit the relation of mobility and urban space on a systematic scale. The major goal of our proposal is to renegotiate the relationship between mobility and the urban space on the three levels: product, infrastructure, and use. As the 20th century has been the era of urbanization, mobility and digitalization, the 21th century is about the symbiotic fusion of these components.

The project "DESTINATION COLLECTIVE" proposes a long-term (~2035) vision for Berlin as well a local short-term test track "FLYWAY" (~2017) that showcases all aspects of the envisioned future concept including individual destination control, autonomous driving, and collective mobility that can be experienced by the users. This exciting blur of individual and public transport will be particularly visible in the track becoming a site not only for traffic but entertainment, sports, and leisure alike.



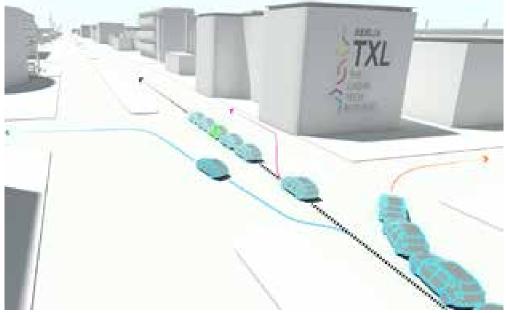
#### Audi Urban Future Award 2014

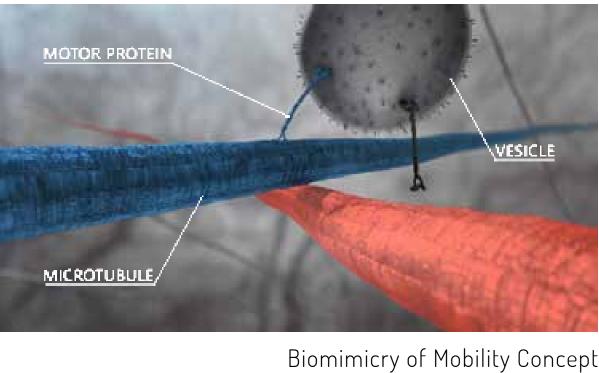
Project Type	Competition
Client	Audi
Location	Berlin, Germany
Year	2014
Team	Audi
	Schindler Ltd
	Studio Schwitalla
	BioMimicry Germany
Position	Intern



Learning from Elevator Technology

Urban Shelf with connecrtable micro mobility





Autonomous Driving: Last mile Route

### MUSEUM OF THE 20TH CENTURY

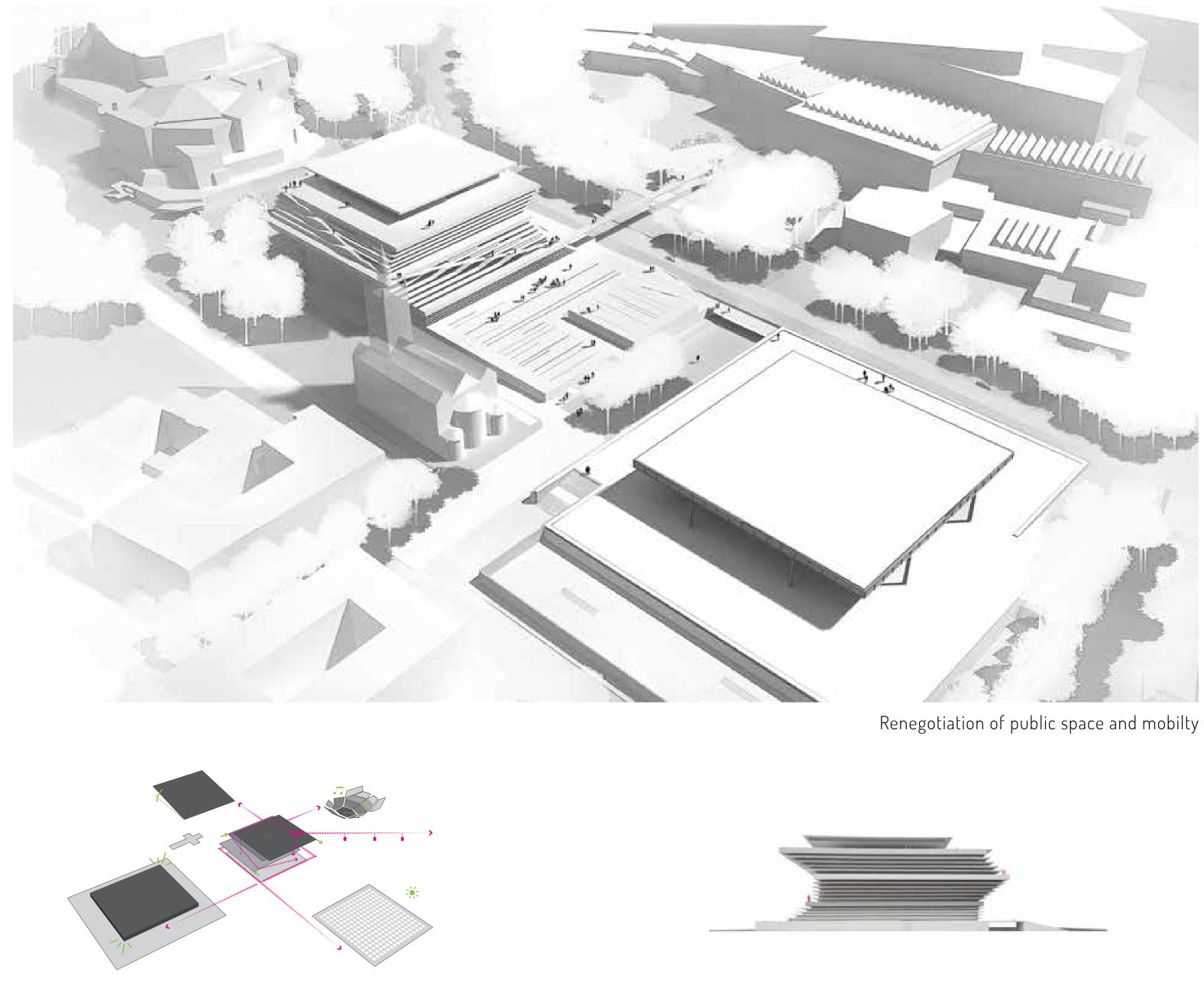
"What is the museum should be more than a museum?"

The extension of Neus Nationalgalerie is situated at the center of the iconic premise, "Kulturforum". Reaching by the "Kulturgondel" to the top of the roof, the exterior platforms serve visitors as a prominent destination directly connecting to Potsdamer platz and Alexanderplatz. Therefore, the design serves as the welcoming gate of the "Kulturforum" area. Each side and level of the platforms has its own spectecular view and multi level connection toward each surrounding building.

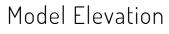
The principle tectonics of the design are shown the DNA of the present surrounding, such as the floating horizontal (NNG), the inclined surface (Piazzetta), the acoustic structure (Philharmonie) and the perforated ceiling (Stabi). The structure of the new building represents respectfully and confidently to the icons of architecture and its dialogue.

#### Museum of the 20th Century

Project Type	Competition
Client	Stiftung Preussischer Kulturbesitz
Location	Berlin, Germany
Year	2015
Team	Studio Schwitalla, LAVALAND
Position	Architect



Inherited Characteristics





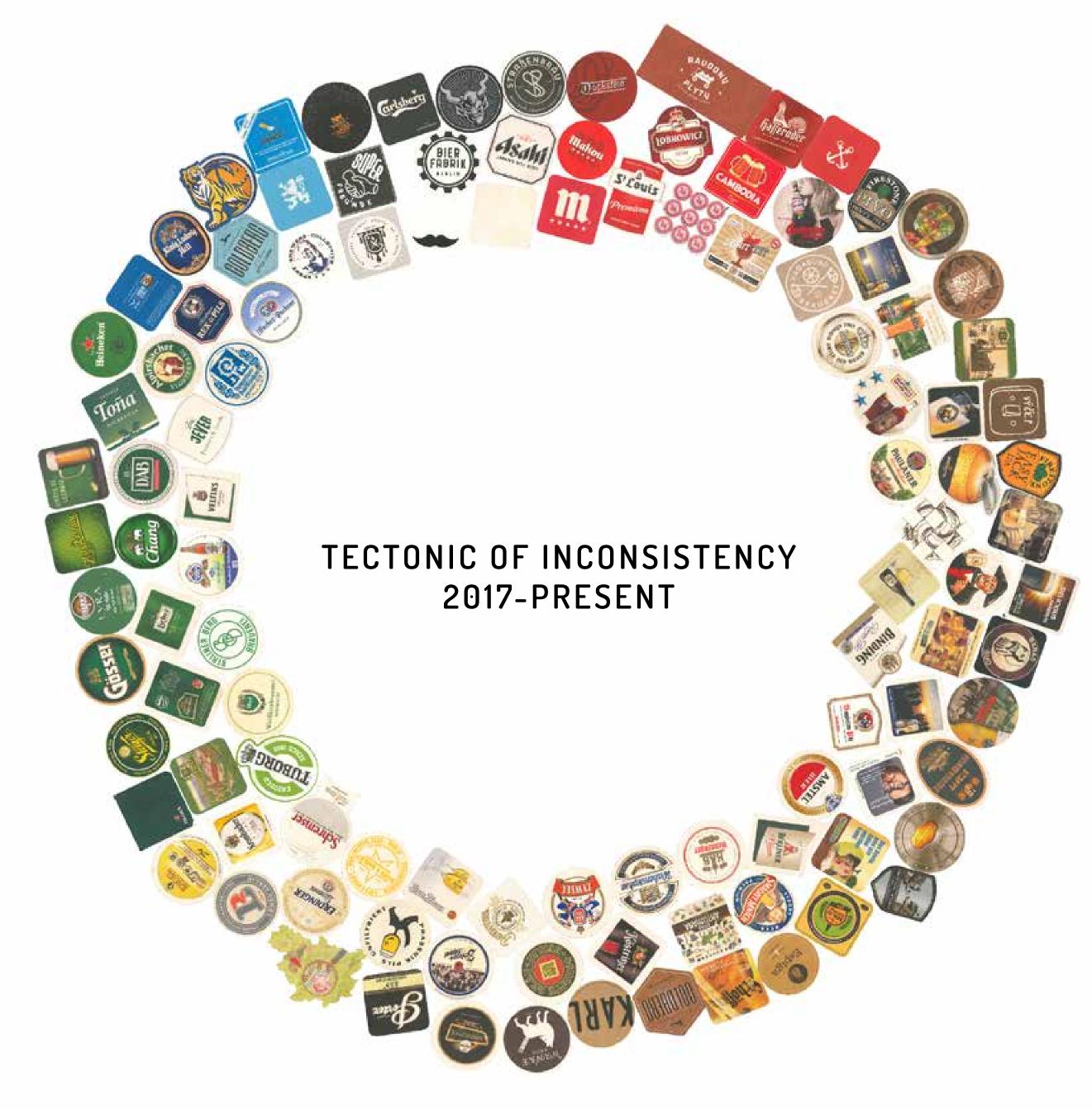
### FINEST SPACE 2017-2019

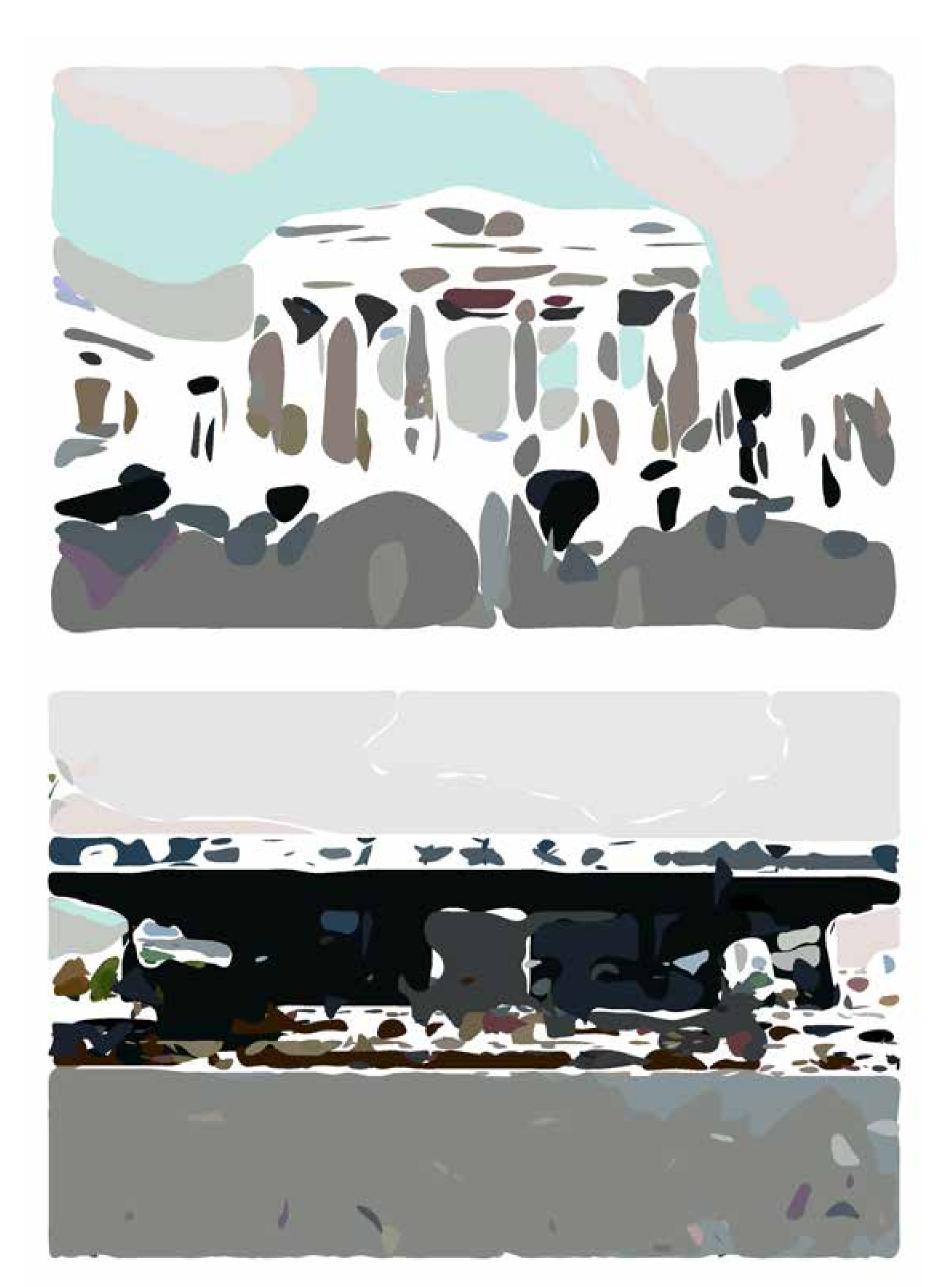


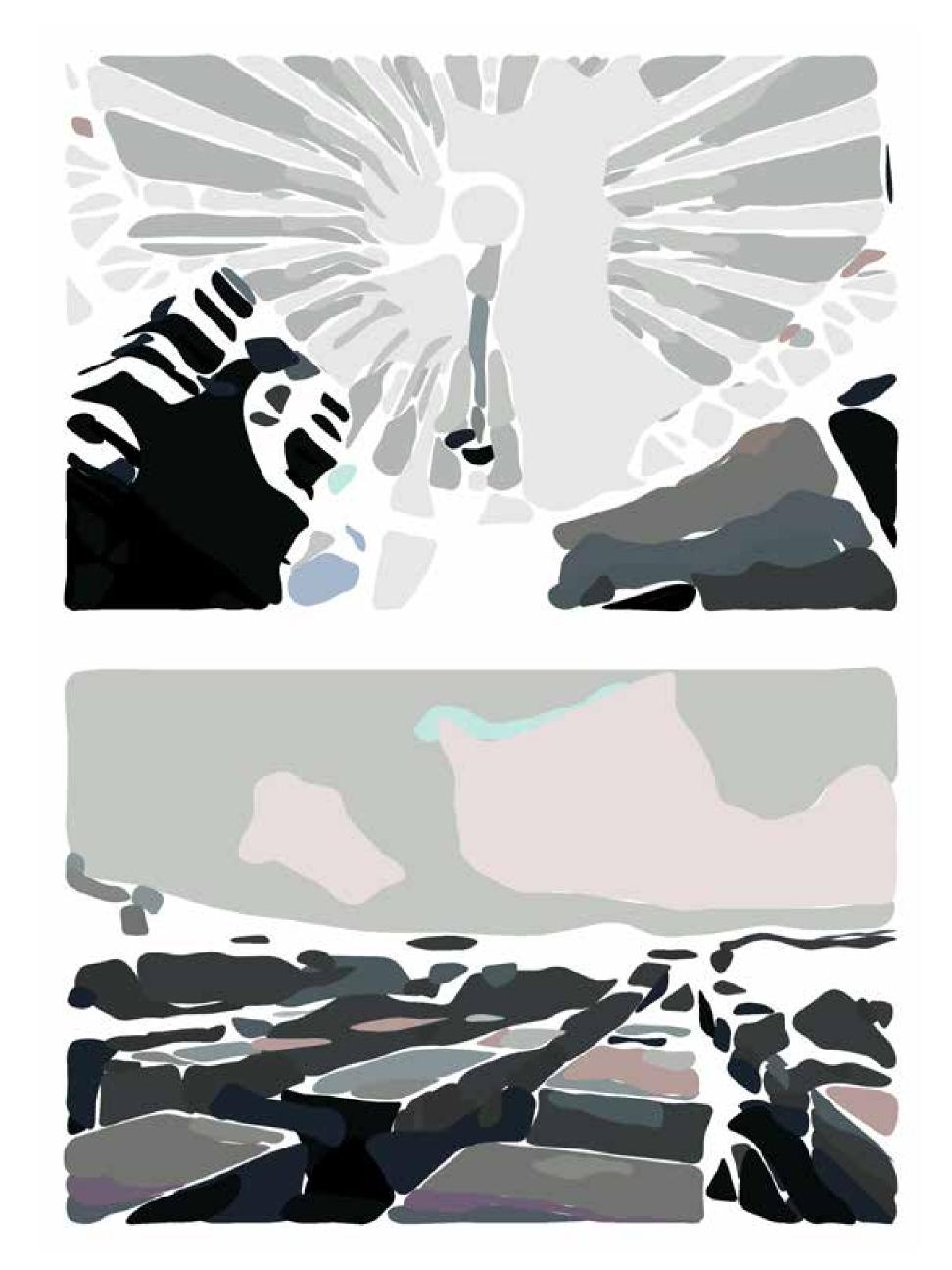
### MAGLA 2018-PRESENT



REGA ARCHITECT 2007-2009 N7A 2010-2011 MAGLA 2012-2013 RESEARCH 2013





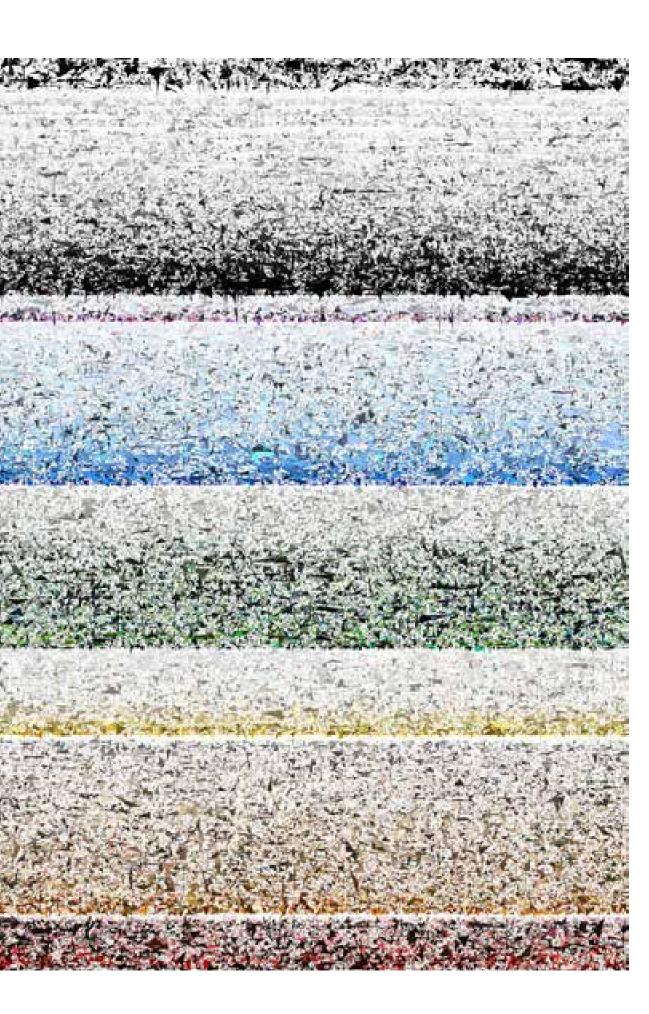


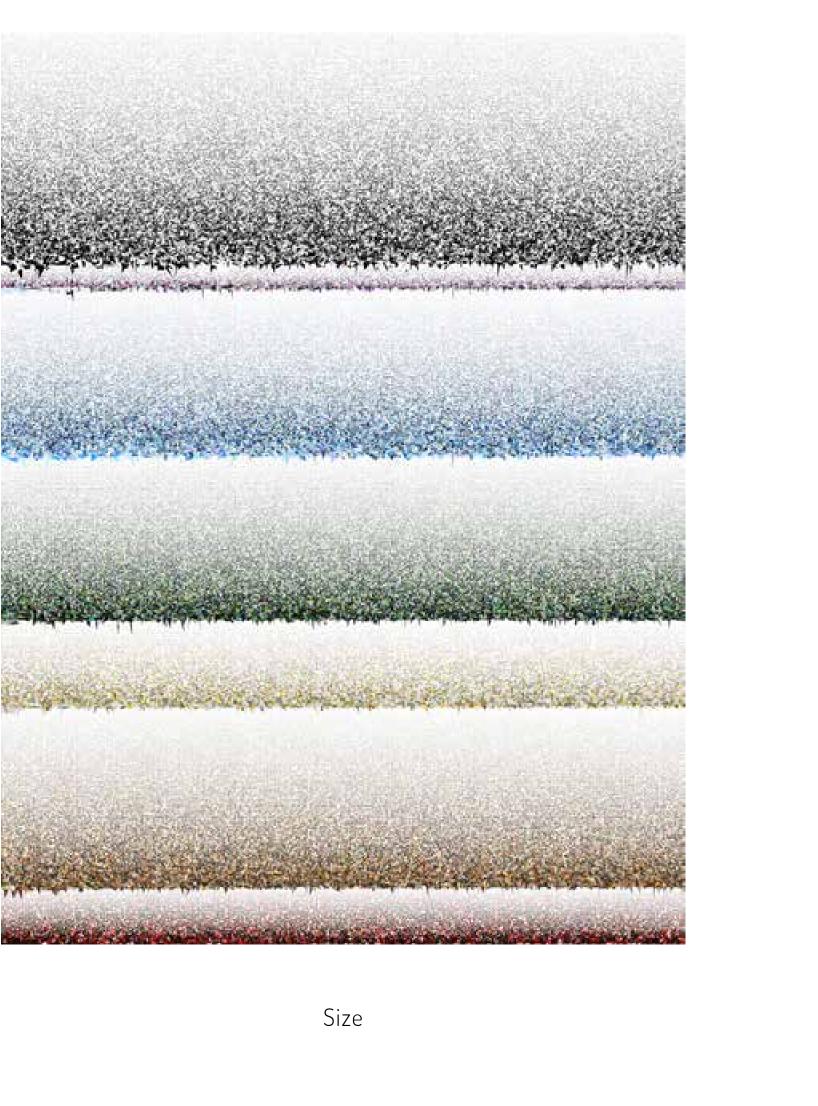
Grasshopper Photo Filter



Sec. 2

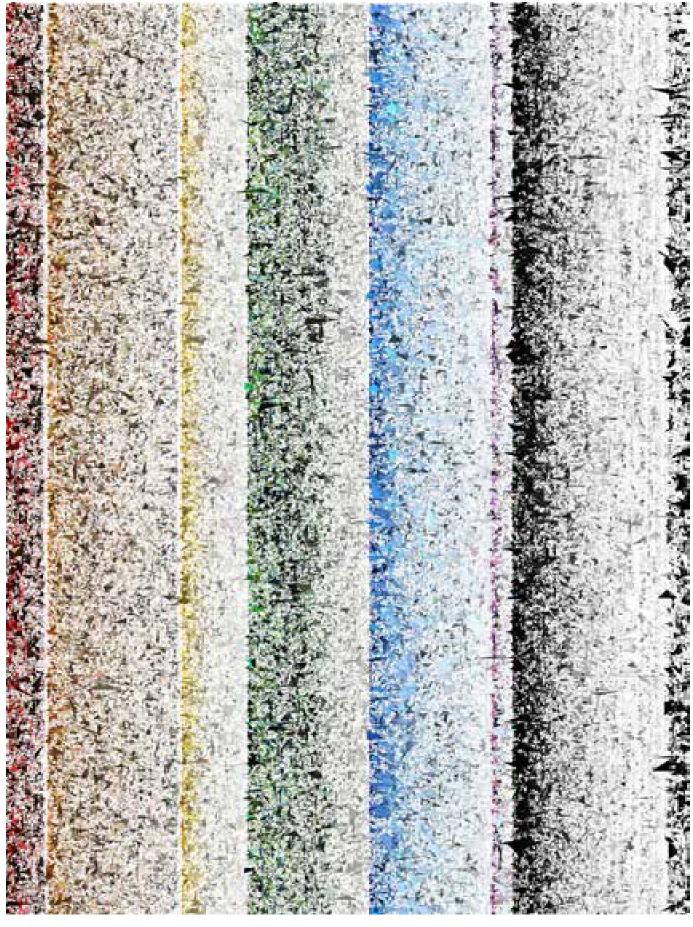
Brightness





Saturation



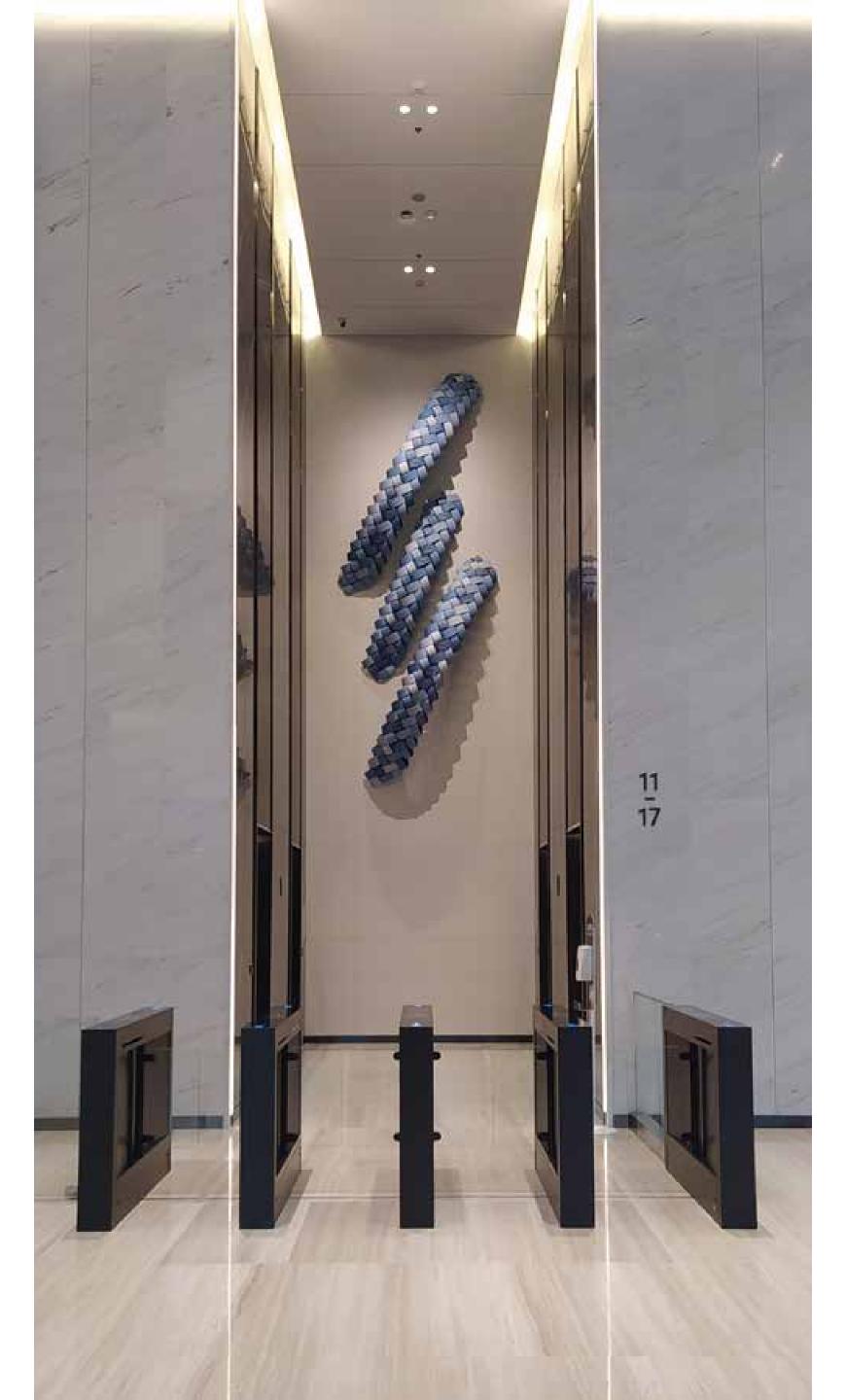


Brightness

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Saturation

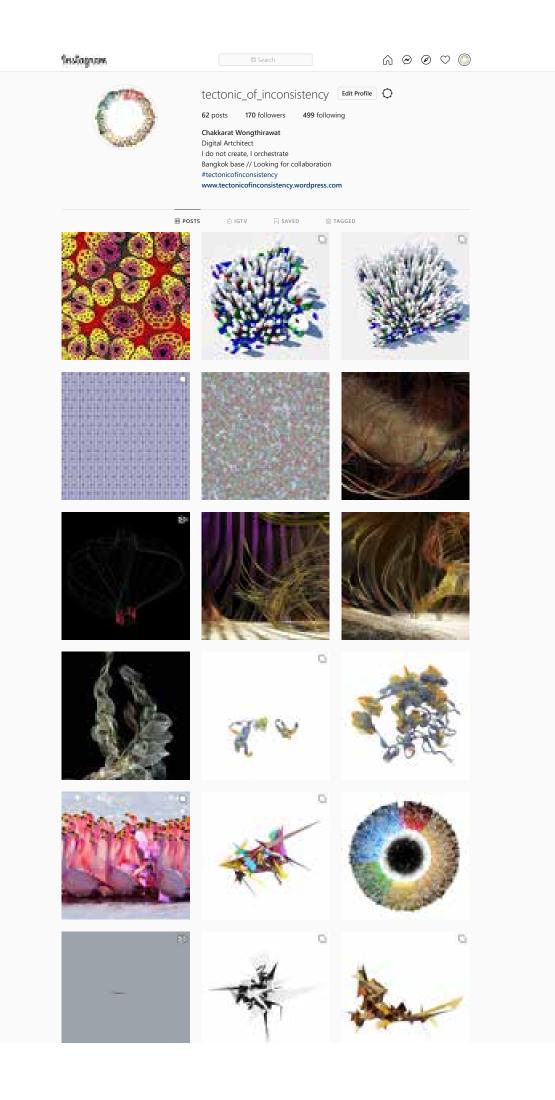
Size



## THE CRADLE

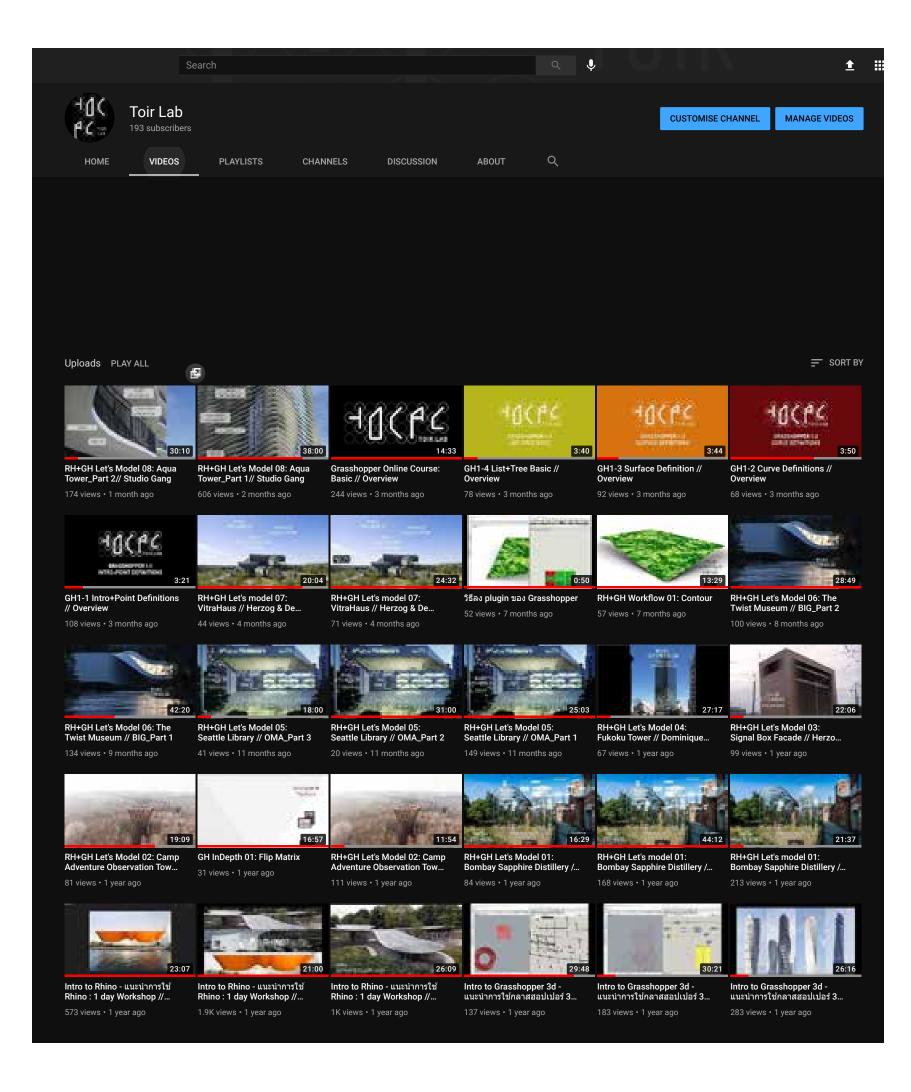
### The Cradle

Project Type	Sculpture
Client	Aor Sutthiprapha
Location	The Parq
Year	2020
Team	Multi Studio
	Nini Renuga Hutanuwatr
	EPIC Studio
	Toir.Lab
	Potteryclay
Position	Geometry Consultant
	Structure Designer



### **TECTONIC OF INCONSISTENCY** FACEBOOK/INSTAGRAM

DIGITAL ART USING GENERATIVE METHODS



### **TOIR.LAB** FACEBOOK/YOUTUBE

PROMOTING PARAMETRIC/COMPUTATIONAL DESIGNS AND TOOLS RHINO+GRASSHOPPER

#### Personal Information

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#### Work Experiences

Education

2007-2007Rega Architect2010-2011N7A2012-2013MAGLA2015-2017Studio Schwitalla (DE)2017-2019Finest Space2018-PresentMAGLA

2002–2007 B.Arch Chulalongkorn University

2013-2015 M.Art Staedelschule Architecture Class with 2 awards

### Computer Skill

Autocad Rhinoceros Grasshopper 3DsMax Vray Render Adobe Suite Revit Python for Grasshopper Advanced Advanced Advanced Intermediate Intermediate Beginner Beginner

