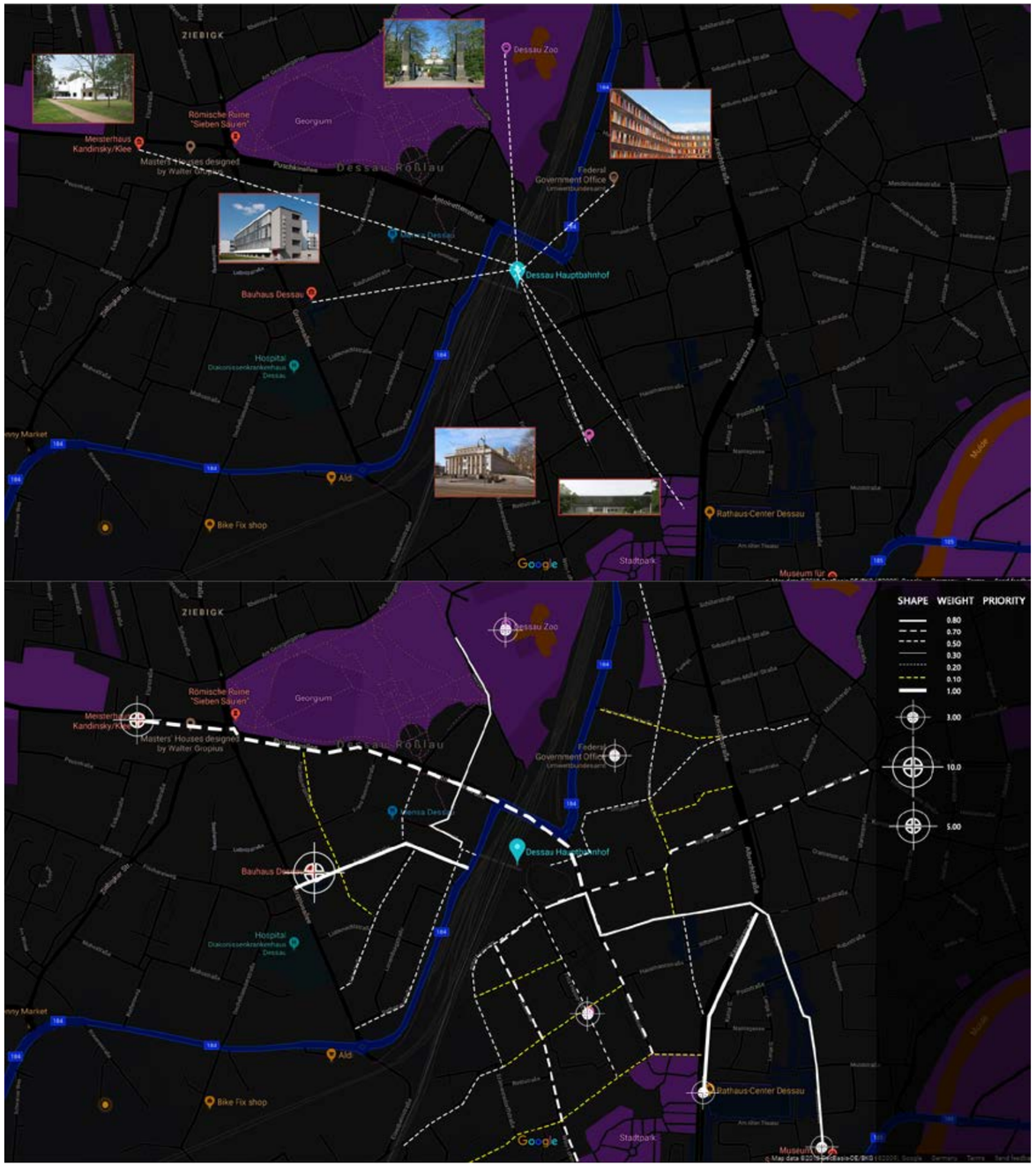
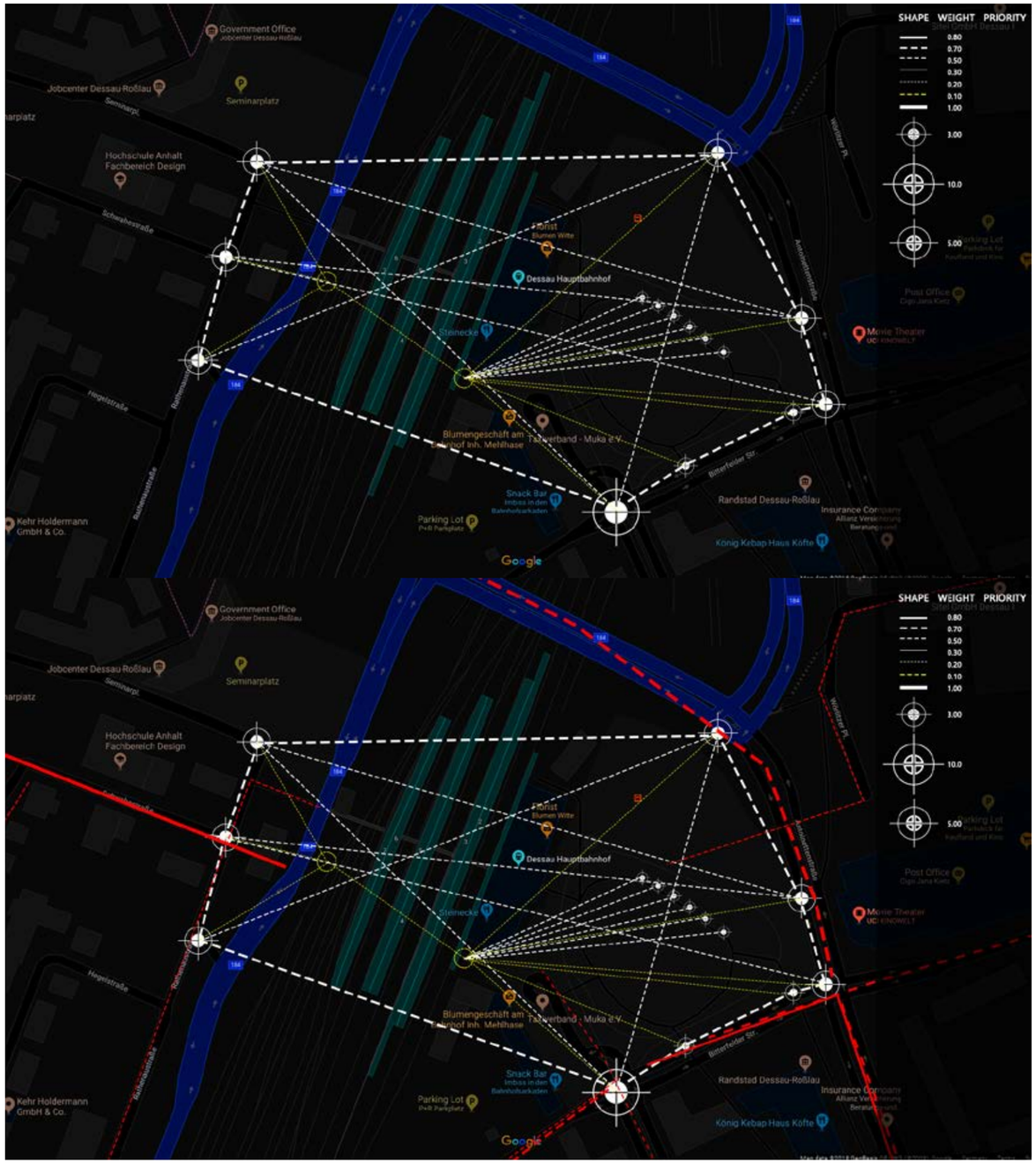
ROBOTIC BUILDING DIA WORKSHOP

PREVIOUS CONCEPT


ZIEBIGK
Dessau Zoo
Römische Ruine "Sieben Säulen"
Georgium
Meisterhaus Kandinsky/Klee
Masters' Houses designed by Walter Gropius
Dessau Roßlau
Federal Government Office
Dessau Hauptbahnhof
Bauhaus Dessau
Hospital
Diakonissenkrankenhaus Dessau
Aldi
Bike Fix shop
Rathaus-Center Dessau
Stadtpark
Google
SHAPE WEIGHT PRIORITY
0.80
0.70
0.50
0.30
0.20
0.10
1.00
3.00
10.0
5.00


Government Office
Jobcenter Dessau-Roßlau
Seminarplatz
Hochschule Anhalt Fachbereich Design
Dessau Hauptbahnhof
Steinecke
Blumengeschäft am Tafelverband - Muka e.V.
Snack Bar
Parking Lot
Randstad Dessau-Roßlau
Insurance Company
Allianz Versicherung
König Kebap Haus Köfte
Kehr Holdermann GmbH & Co.
Google
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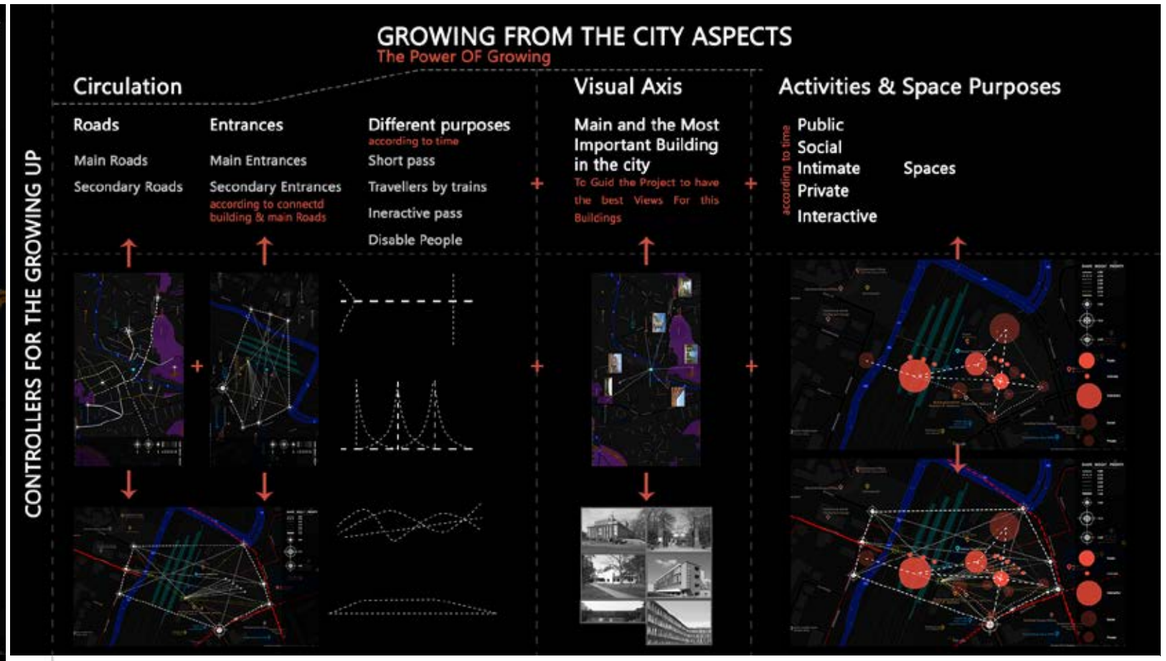
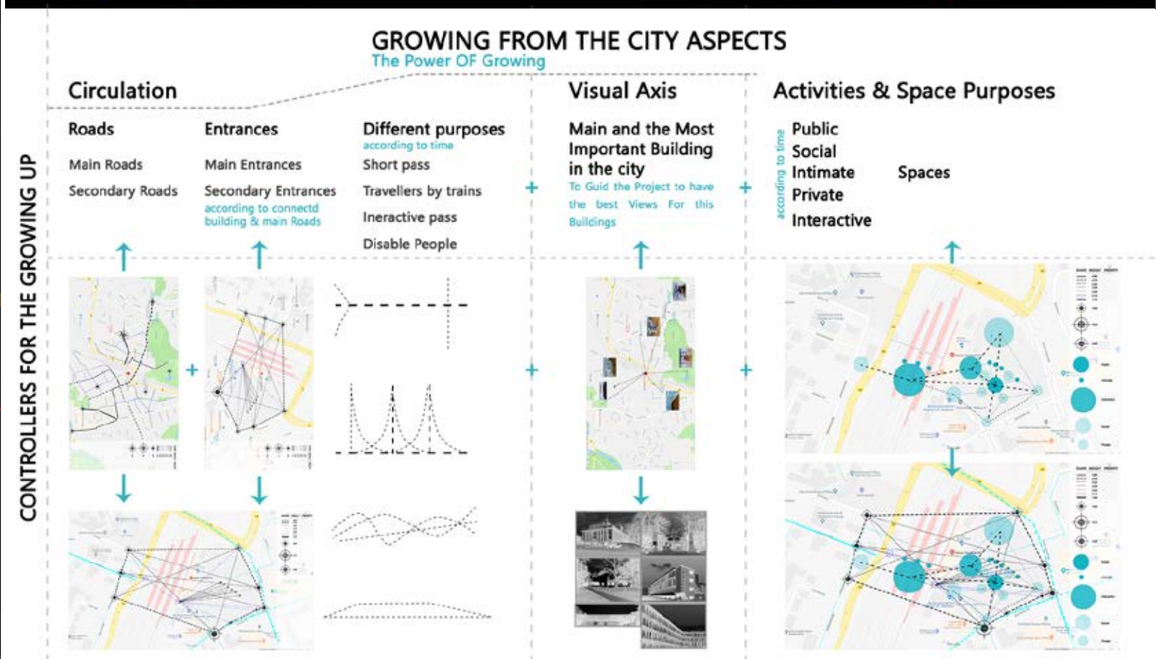
Public
Intimate
Interactive
Social
Private
Government Office
Jobcenter Dessau-Roßlau
Seminarplatz
Hochschule Anhalt
Fachbereich Design
Florist
Dessau Hauptbahnhof
Blumengeschäft am
Bahnhof Inh. Mehlbase
Taxiverband - Muka e.V
Snack Bar
Imbiss in den
Bahnhofsarkaden
Parking Lot
P+R Parkplatz
Randstad Dessau-Roßlau
Insurance Company
König Kebap Haus Köfte
Kehr Holdermann
GmbH & Co.
Google


GROWING FROM THE CITY ASPECTS
The Power OF Growing
CONTROLLERS FOR THE GROWING UP
Circulation
Roads
Main Roads
Secondary Roads
Entrances
Main Entrances
Secondary Entrances
according to connectd building & main Roads
Different purposes
according to time
Short pass
Travellers by trains
Ineractive pass
Disable People
Visual Axis
Main and the Most Important Building in the city
To Guid the Project to have the best Views For this Buildings
Activities & Space Purposes
according to time
Public
Social
Intimate
Private
Interactive
Spaces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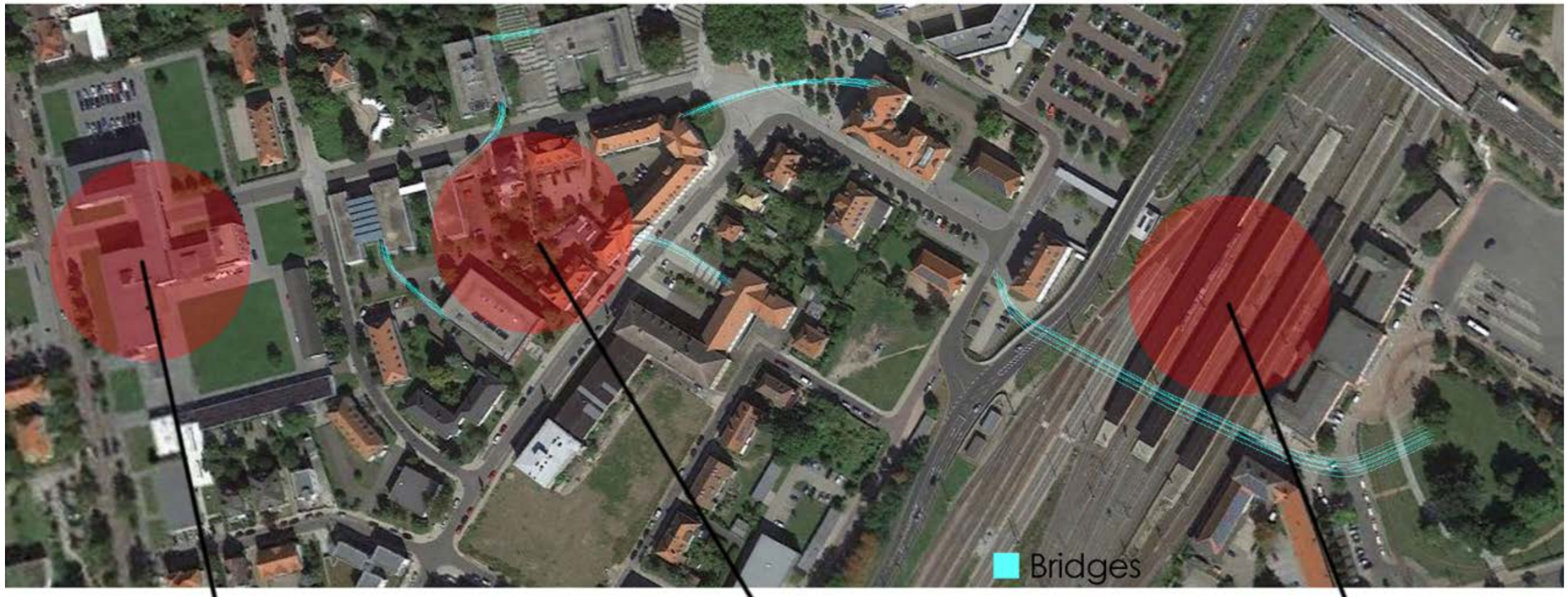
MESO
SCALE

MAIN IDEA

Creating a generic unit type bridge by applying this type on two main spots.

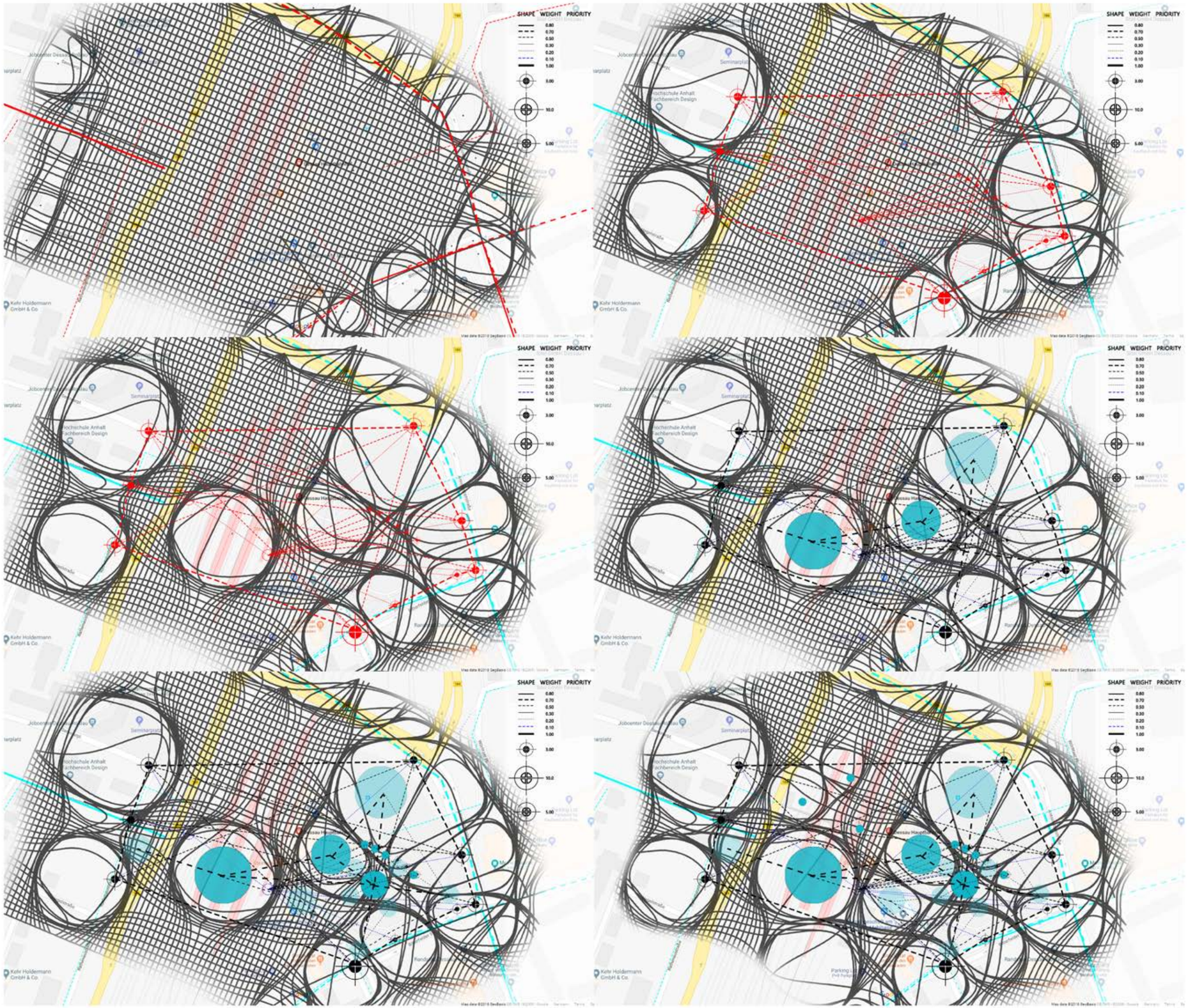
TRAIN STATION — Connecting City Center with Bauhaus.

CAMPUS — Connecting the different buildings of the Campus.



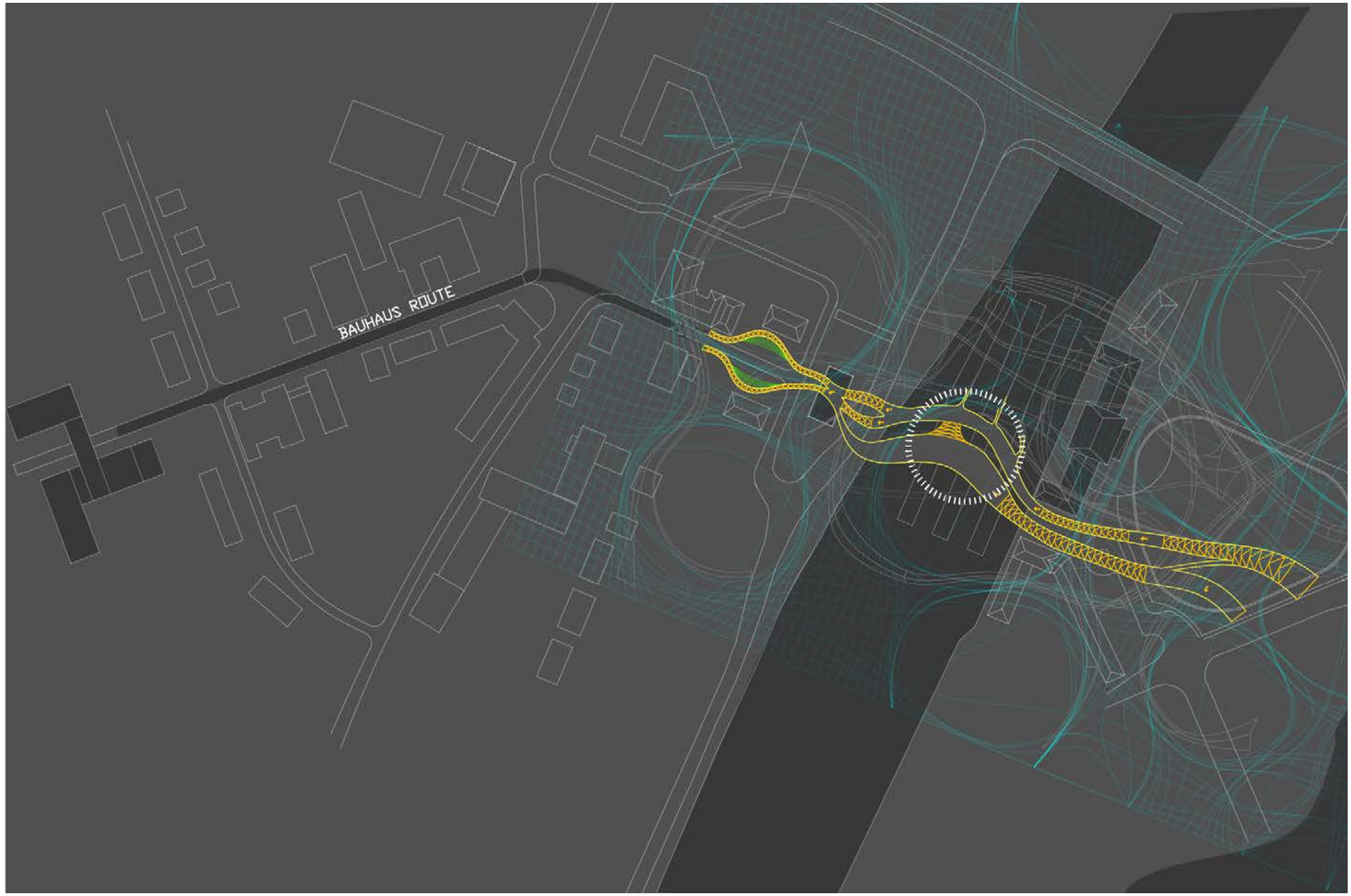
MESO SCALE

ANALYSIS

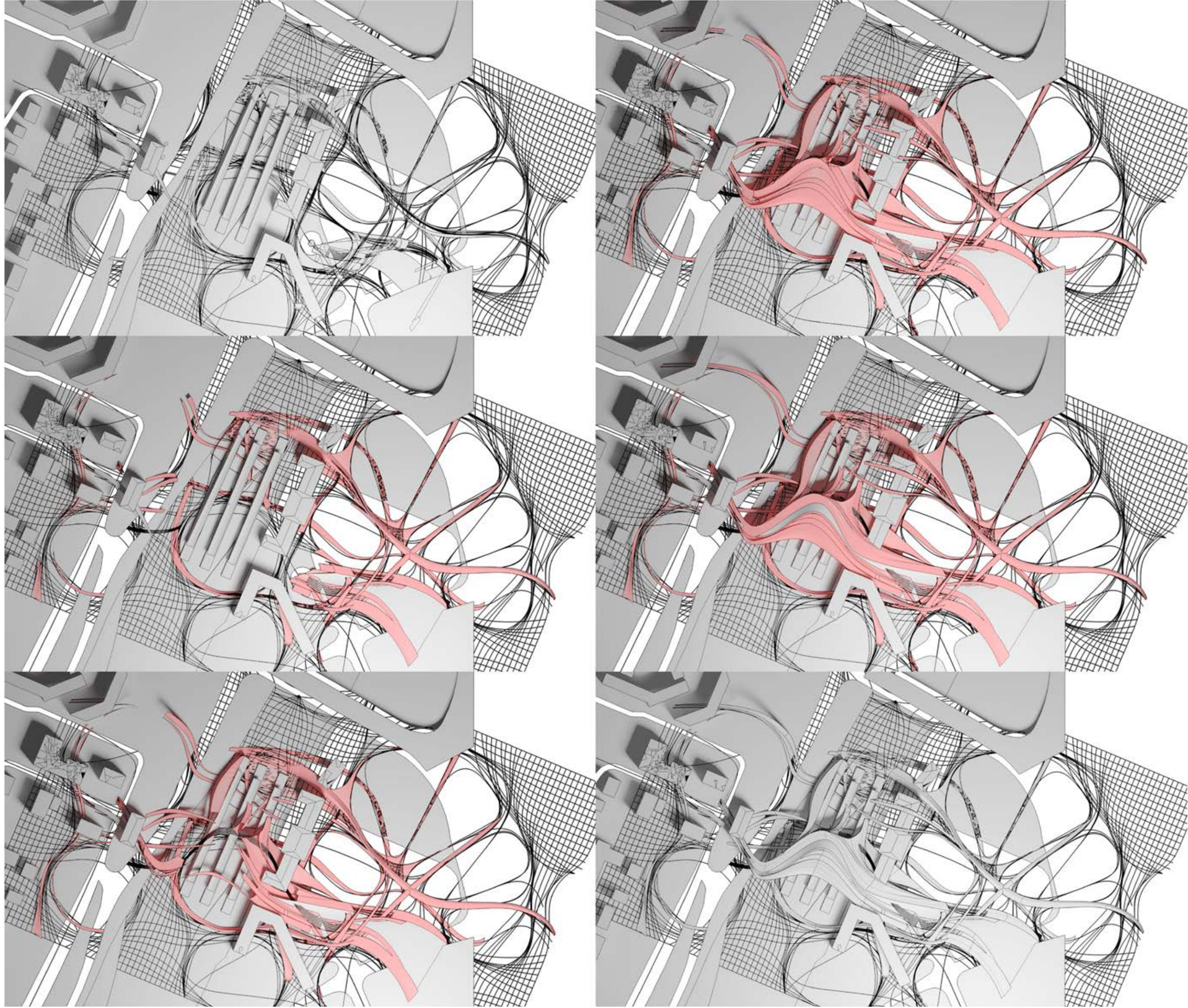


MESO SCALE

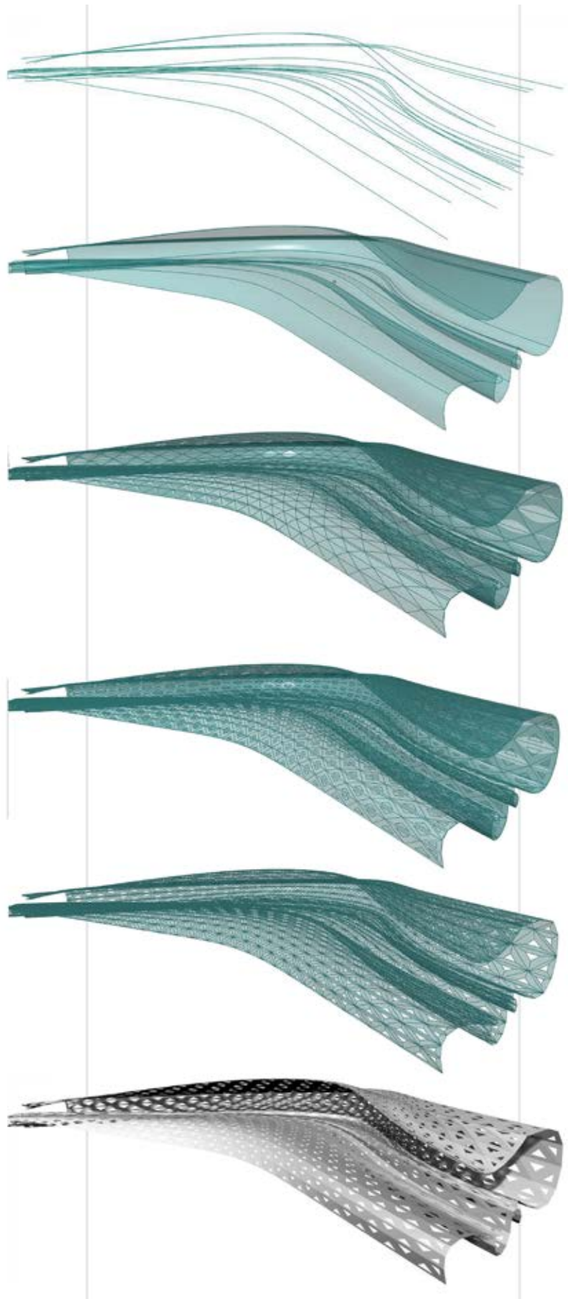
- DIRECT CONNECTION EAST & WEST FOR PEDESTRIANS AND CYCLISTS
- TRANSFORMING GOV-ERNMENT BUILDING INTO PORTAL
- ACCESSIBILITY
- BRIDGE CREATES SITTING PLACES/ PUBLIC SPACES

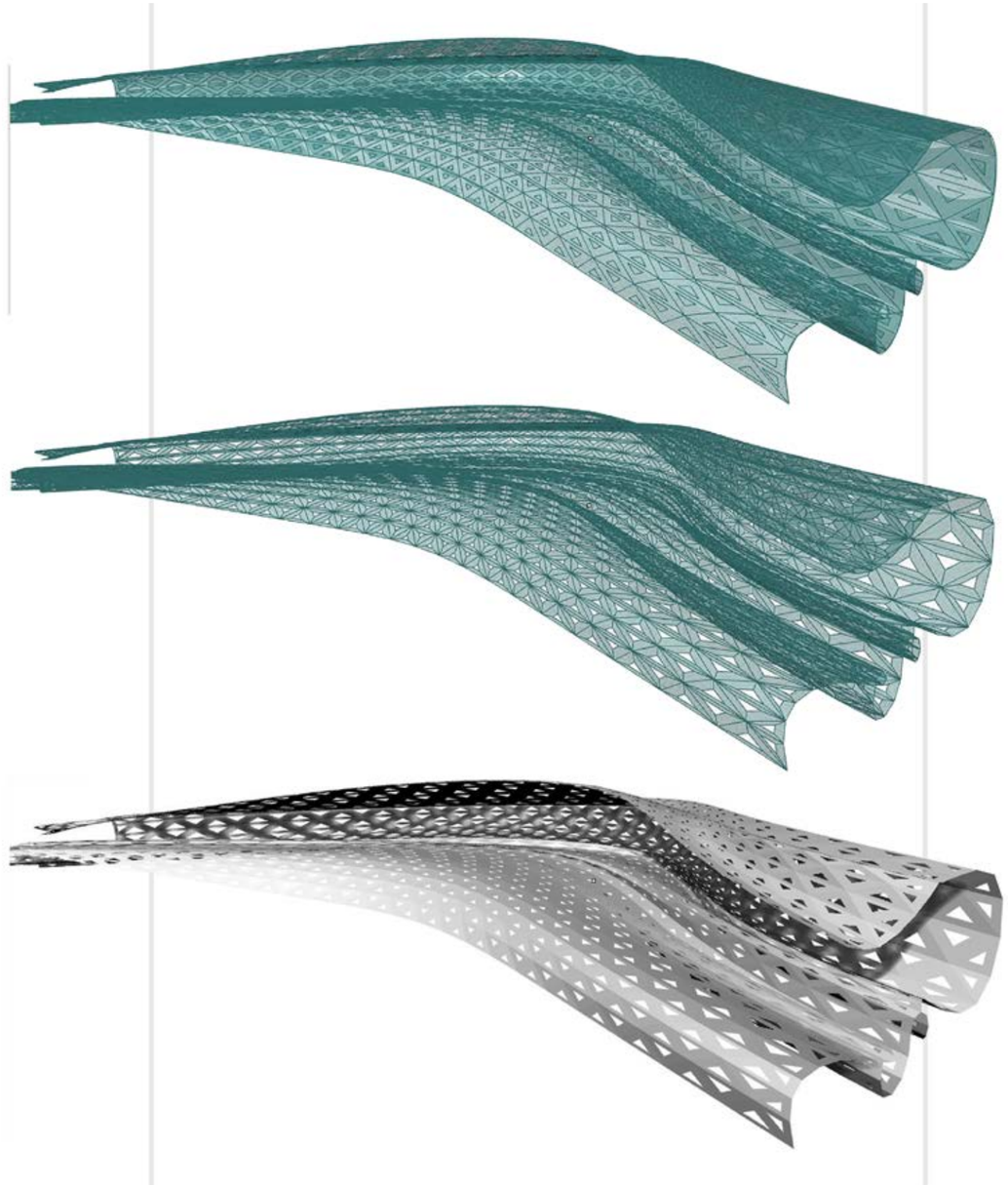


MESO SCALE



MACRO SCALE



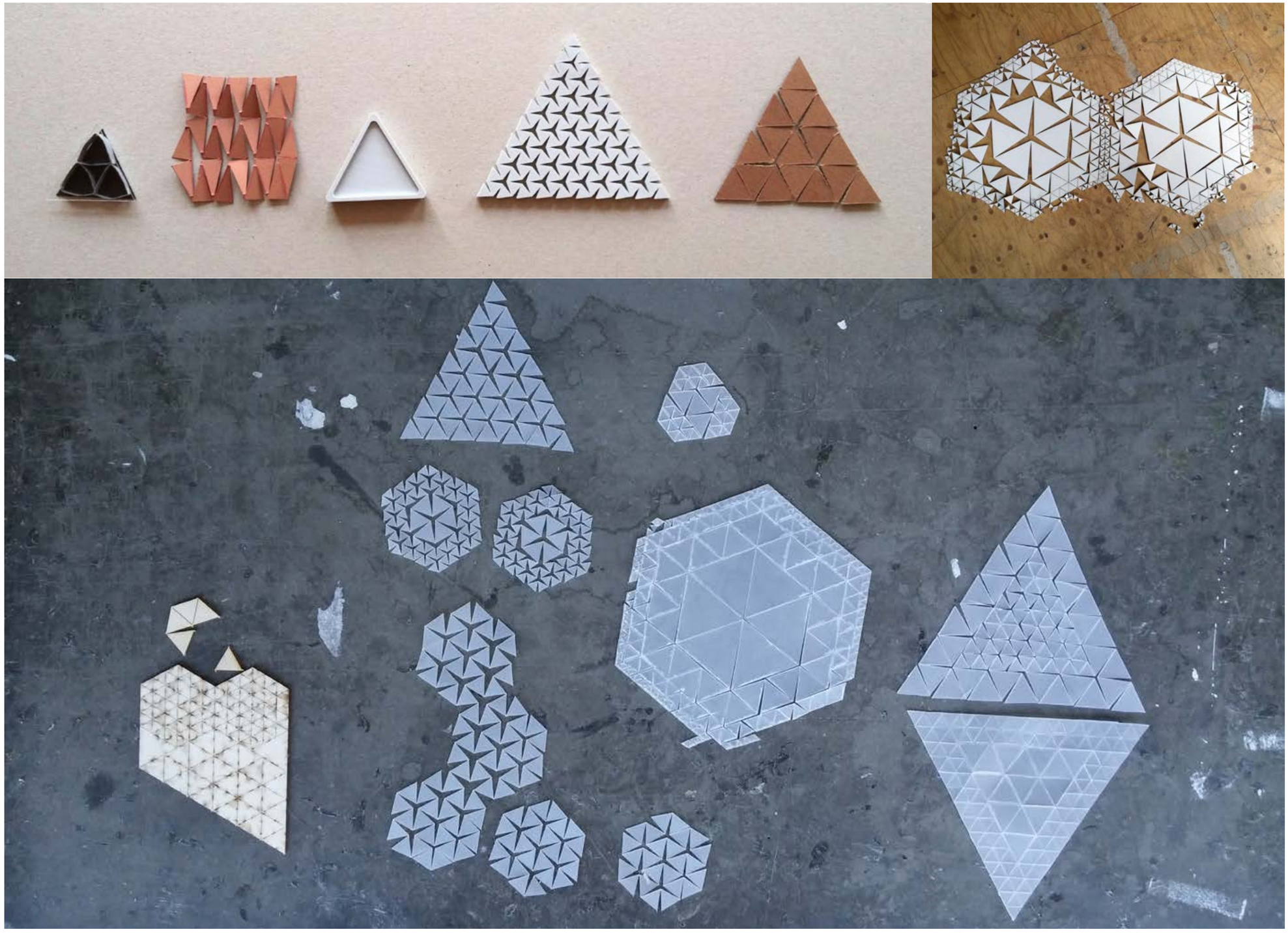


MACRO SCALE

TU DELFT

MICRO SCALE

PATTERN DEVELOPMENT



DIA

MICRO SCALE

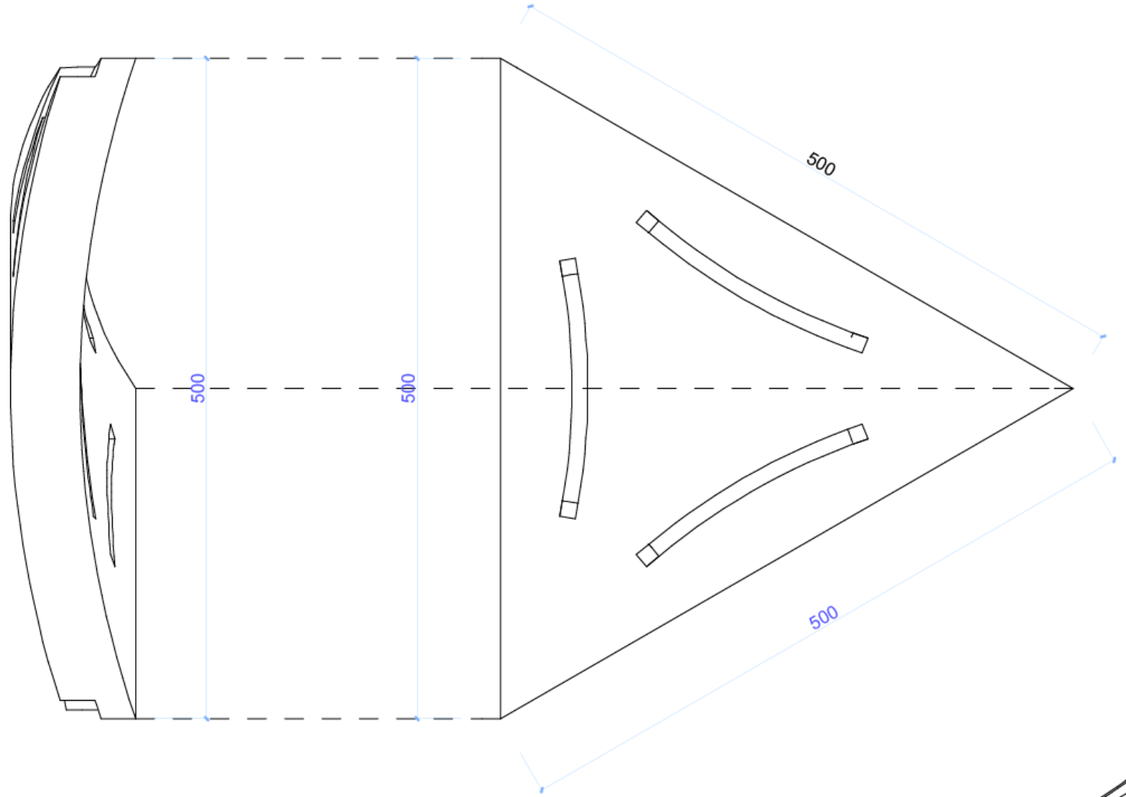
PANEL DEVELOPMENT

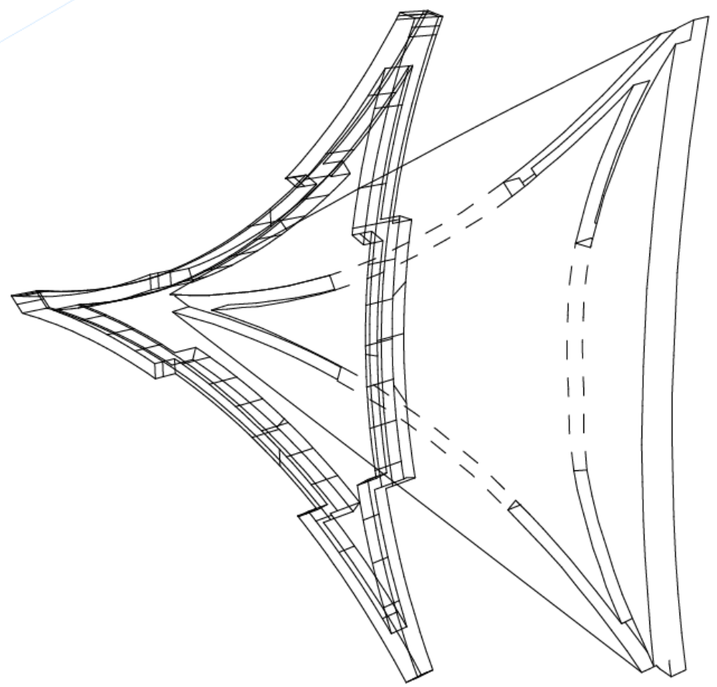
MONDAY

- MERGING CONCEPTS
- DISCUSSION
- SCORING

RESULTING MODEL

- SILICON & EPS HYBRID FOR FLEXIBILTY/ STIFFNESS
- CURVATURE
- SILICON TAILORING





MICRO SCALE

PANEL DEVELOPMENT

TUESDAY PROTOTYPE 1

- HYBRID
- SILICON & EPS

FINDINGS

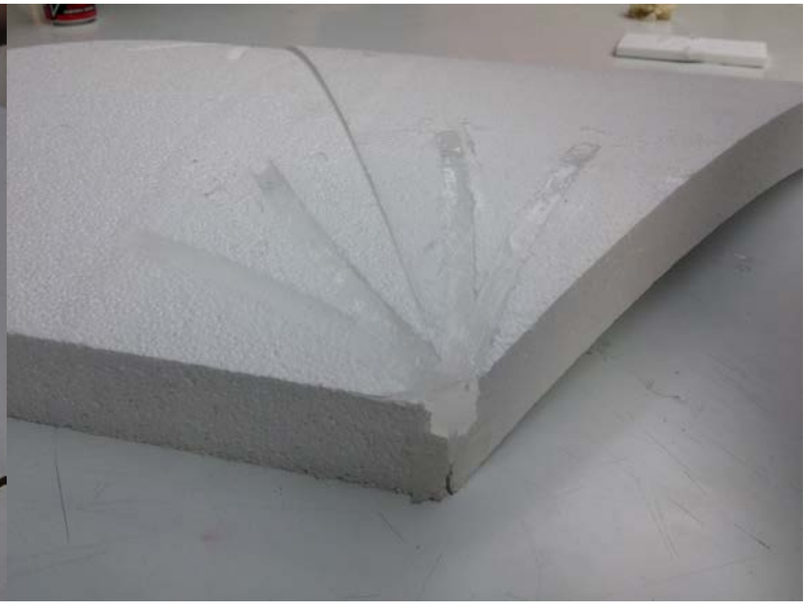
- MILLING PROCESS NEEDS ADJUSTMENT

METHOD

- WIRECUTTING THE CURVATURE & OUTLINE
- MILLING THE TAILORING
- WIRECUTTING THE BASE FREE

MICRO SCALE

PANEL DEVELOPMENT

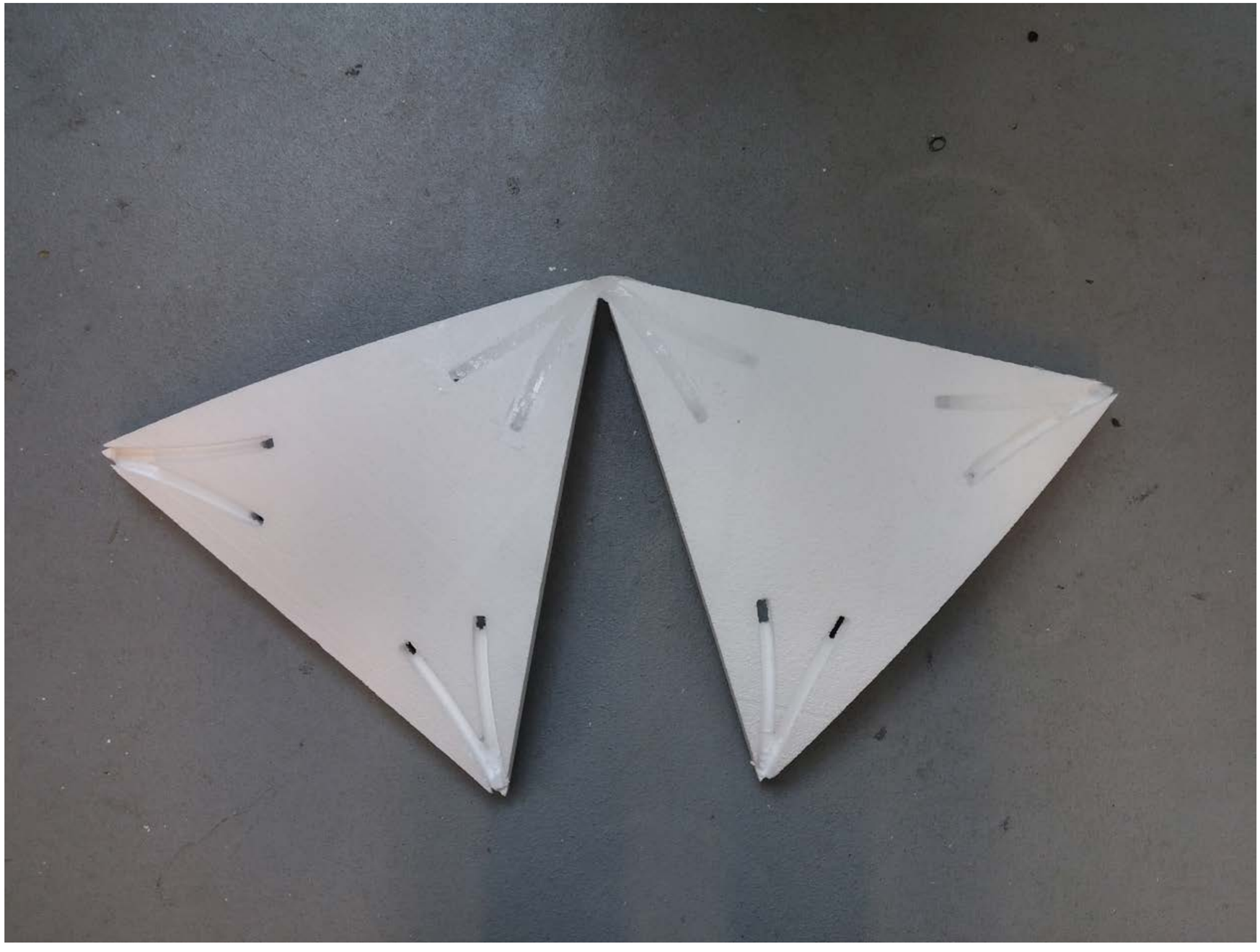


MICRO SCALE

PANEL DEVELOPMENT

MICRO SCALE

PANEL DEVELOPMENT

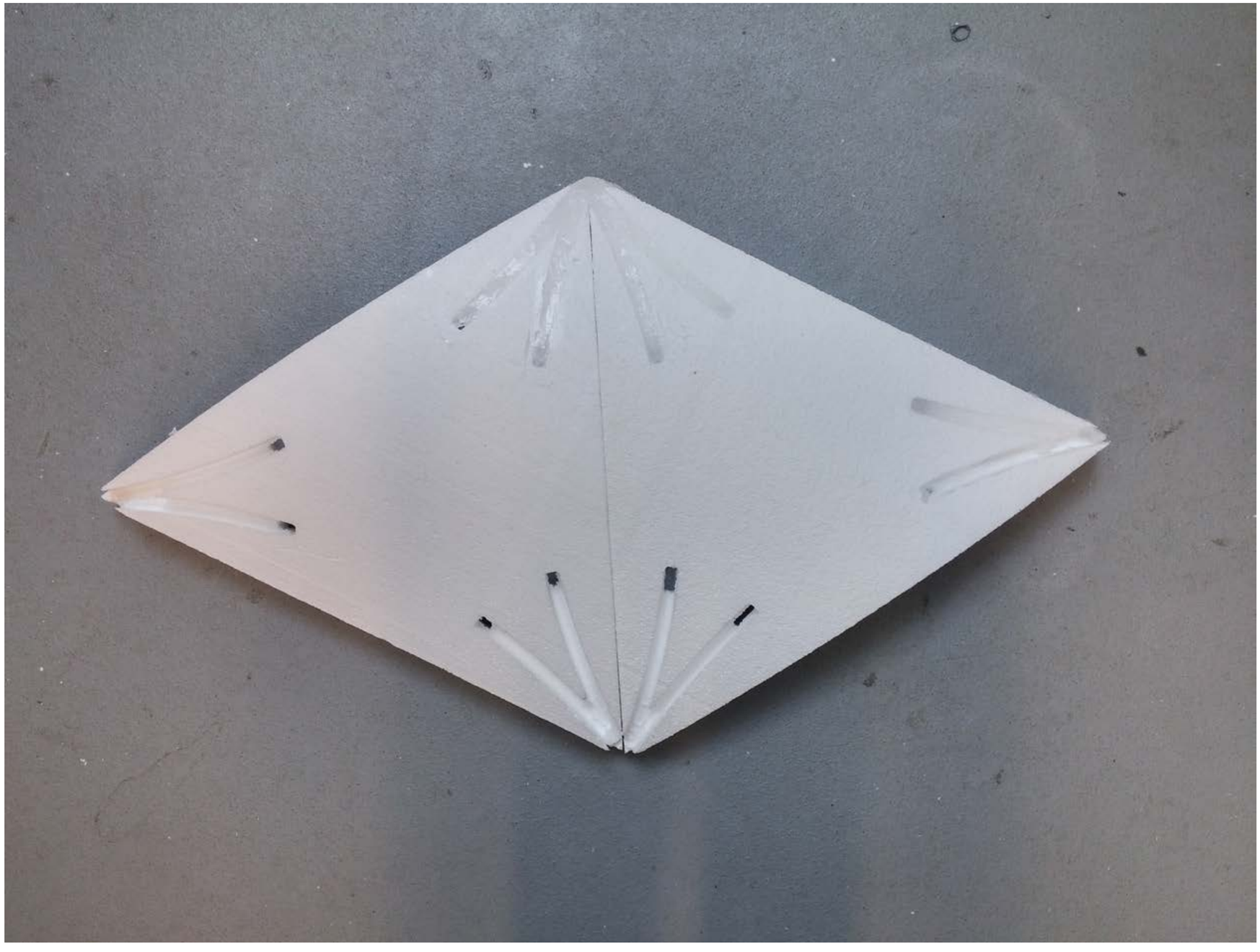


MICRO SCALE

PANEL DEVELOPMENT

FINDINGS:

- SILICON JOINT WEAK AND ALLOWS FOR TOO MUCH MOVEMENT
- PLAIN SHAPE; REQUIRE EXPERIMENTATION AND OPTIMISATION
- HOMOGENOUS PANELS; REQUIRE UNIQUE PATTERN

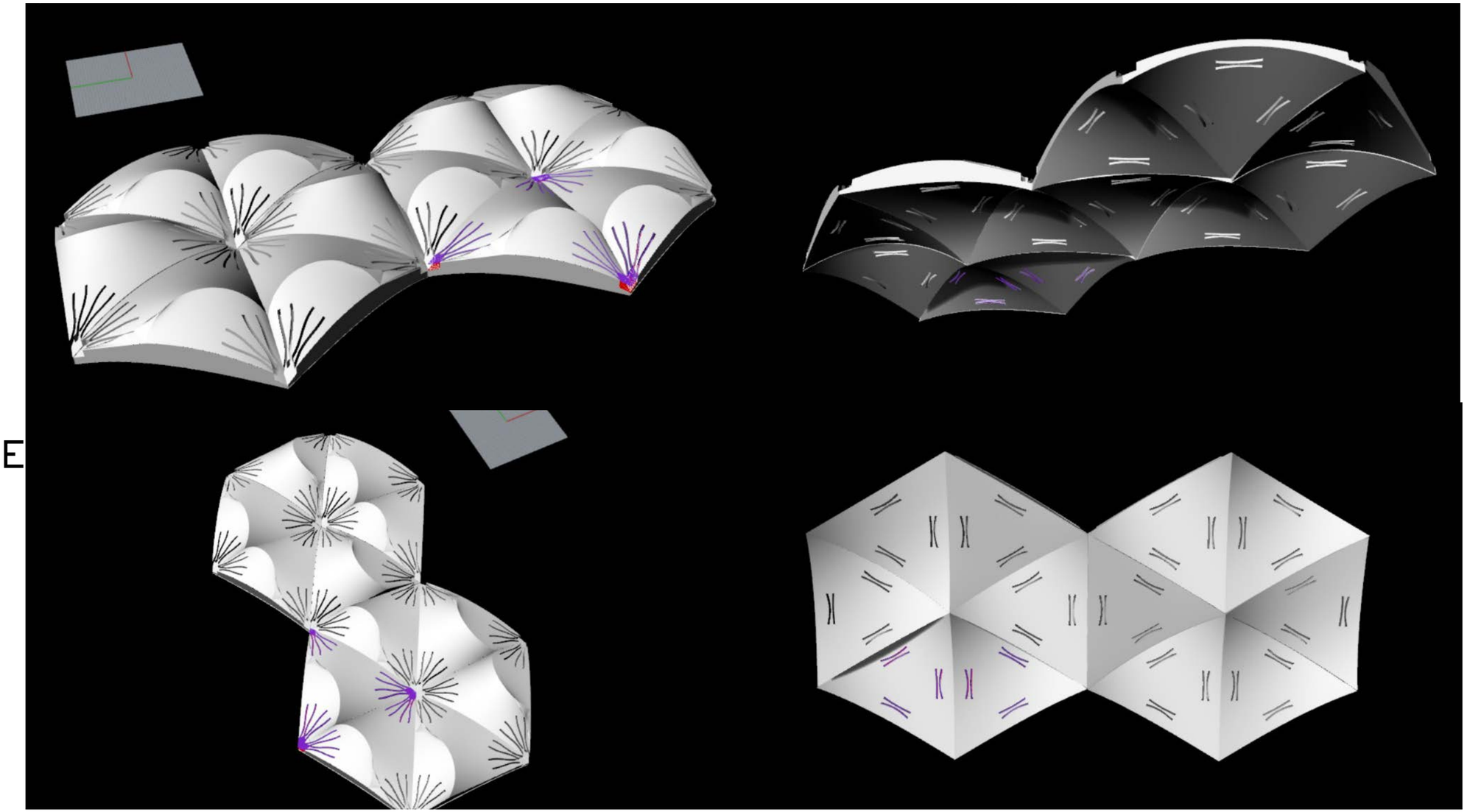


MICRO SCALE

PANEL DEVELOPMENT

THURSDAY PROTOTYPE 2

MODELLING SHAPE & VOLUME

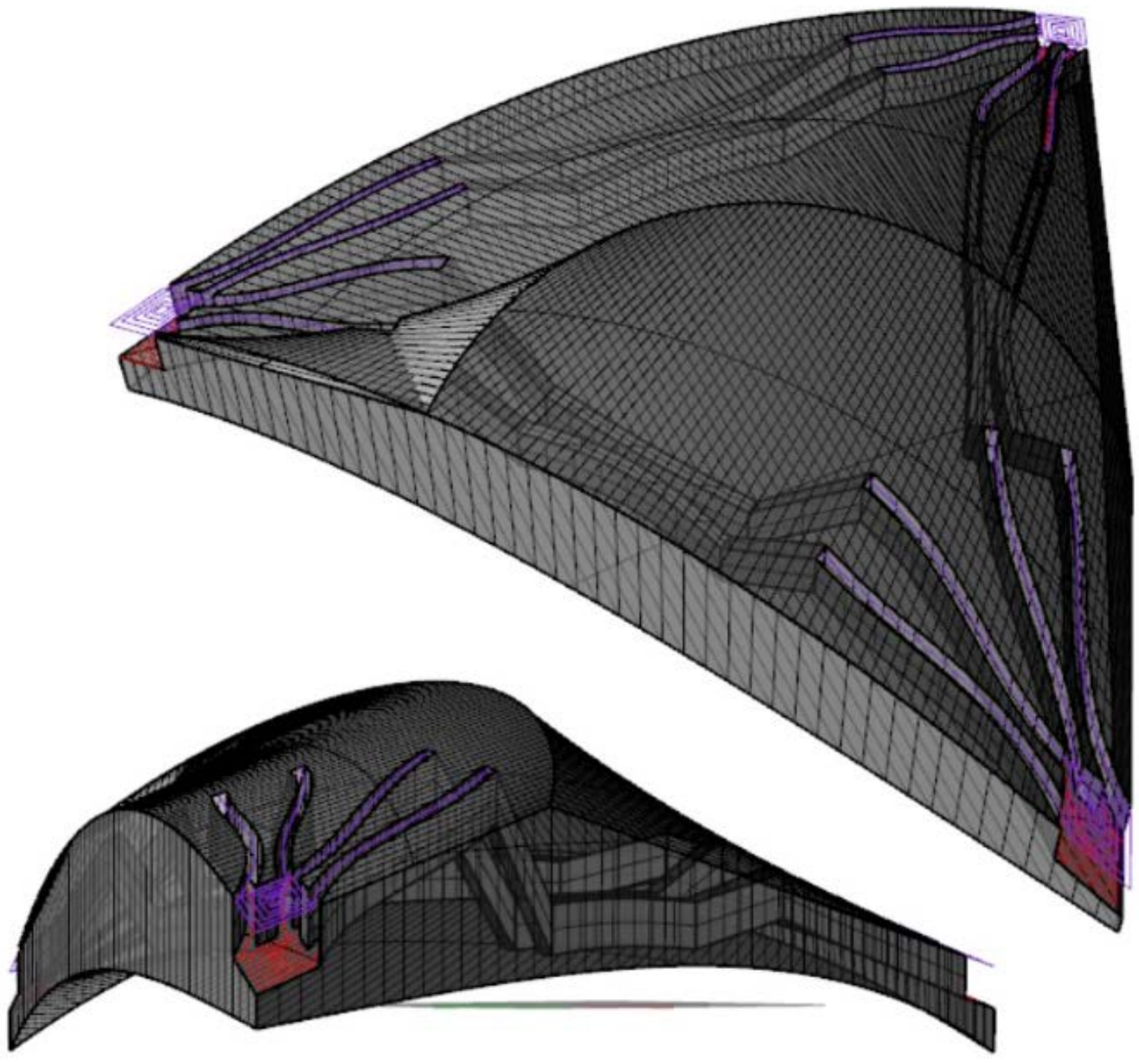


MICRO SCALE

PANEL DEVELOPMENT

THURSDAY PROTOTYPE 2

MODELLING SHAPE & VOLUME

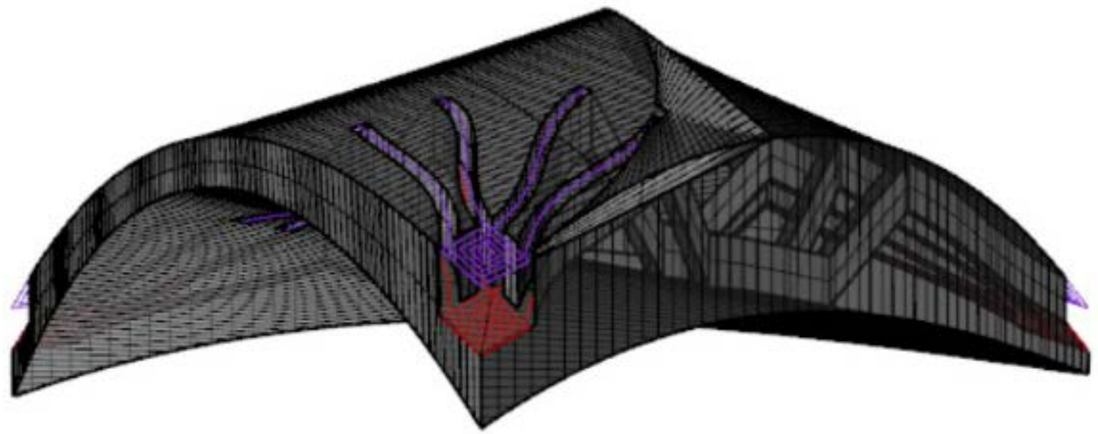


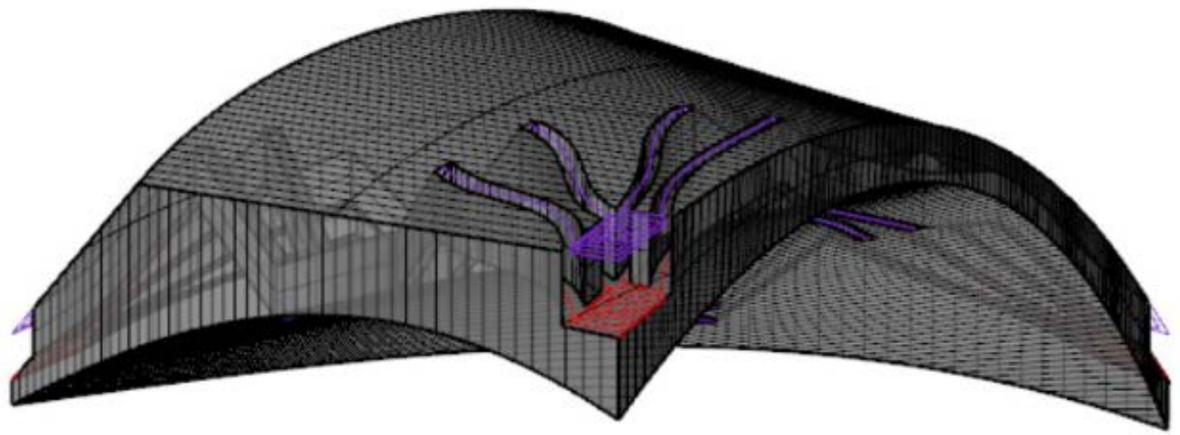
MICRO SCALE

PANEL DEVELOPMENT

THURSDAY PROTOTYPE 2

PROTOTYPING JOINTS & TAILORING



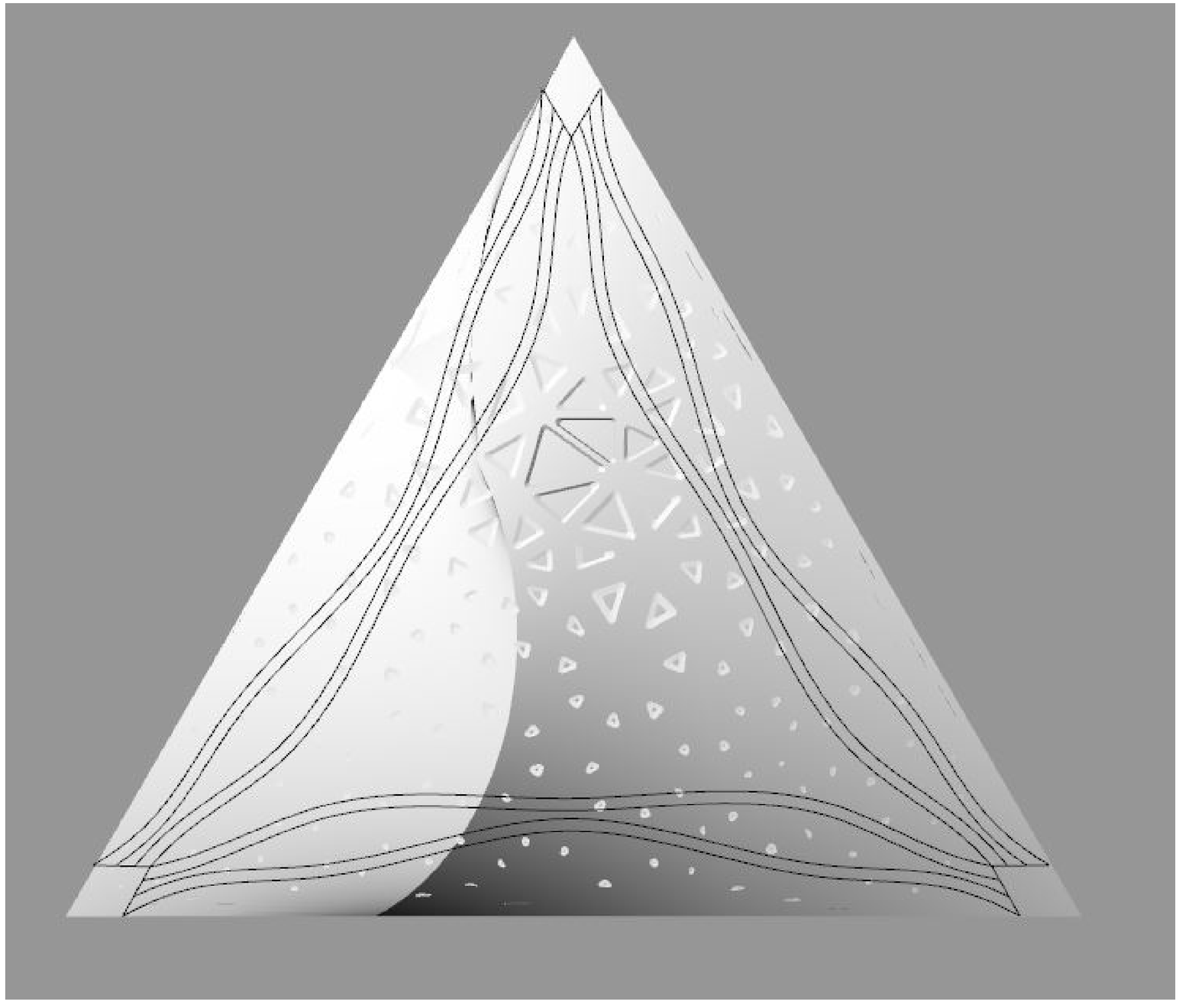


MICRO SCALE

PANEL DEVELOPMENT

THURSDAY PROTOTYPE 2

MODELLING
SURFACE
TEXTURE

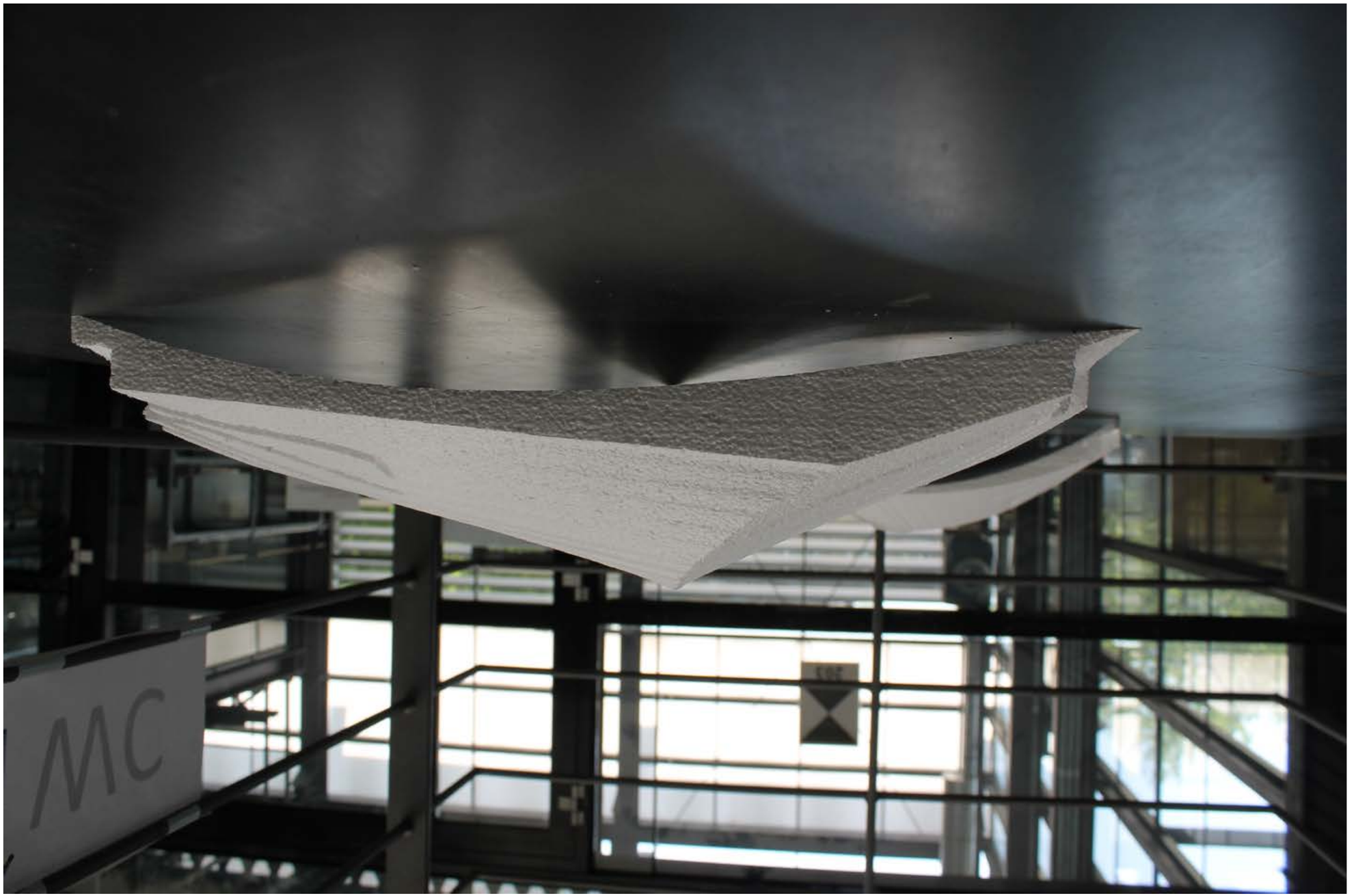


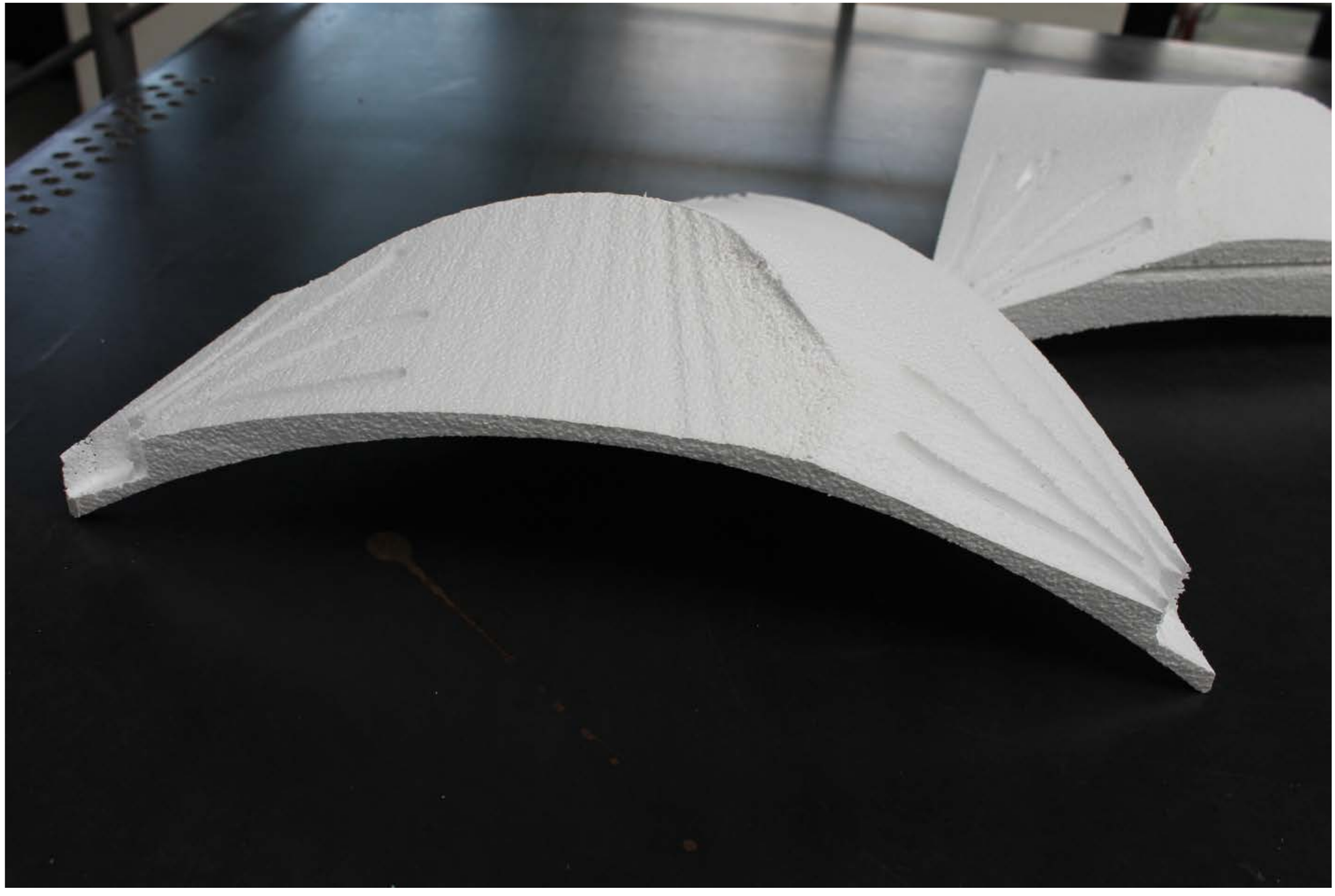
MICRO SCALE

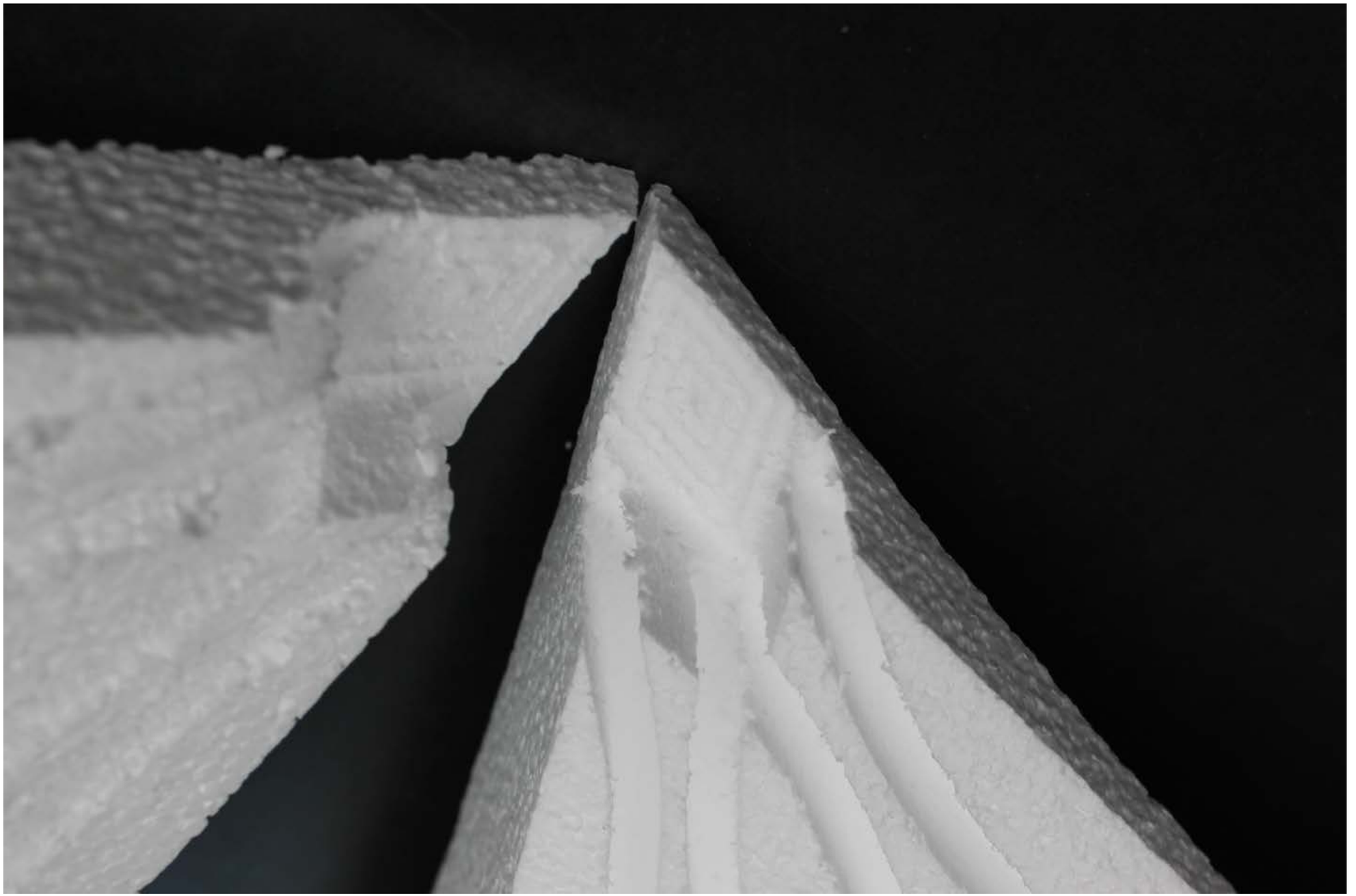
PANEL DEVELOPMENT

THURSDAY PROTOTYPE 2

PRODUCT


MC





FUTURE WORKS AND DIRECTIONS

- APPLYING AN INTERIOR PATTERN TO CREATE A TACTILE ENVIRONMENT
- APPLYING AN EXTERIOR PATTERN TO CREATE INTERESTING VISUALS
- ADJUSTING THE VOLUME TO OPTIMISE MATERIAL
- OPTIMISING JOINTS - SILICON TO EPS CONNECTION
- EXPERIMENTING WITH NEW MATERIALS E.G. WOOD
- ACTUAL TAILORING