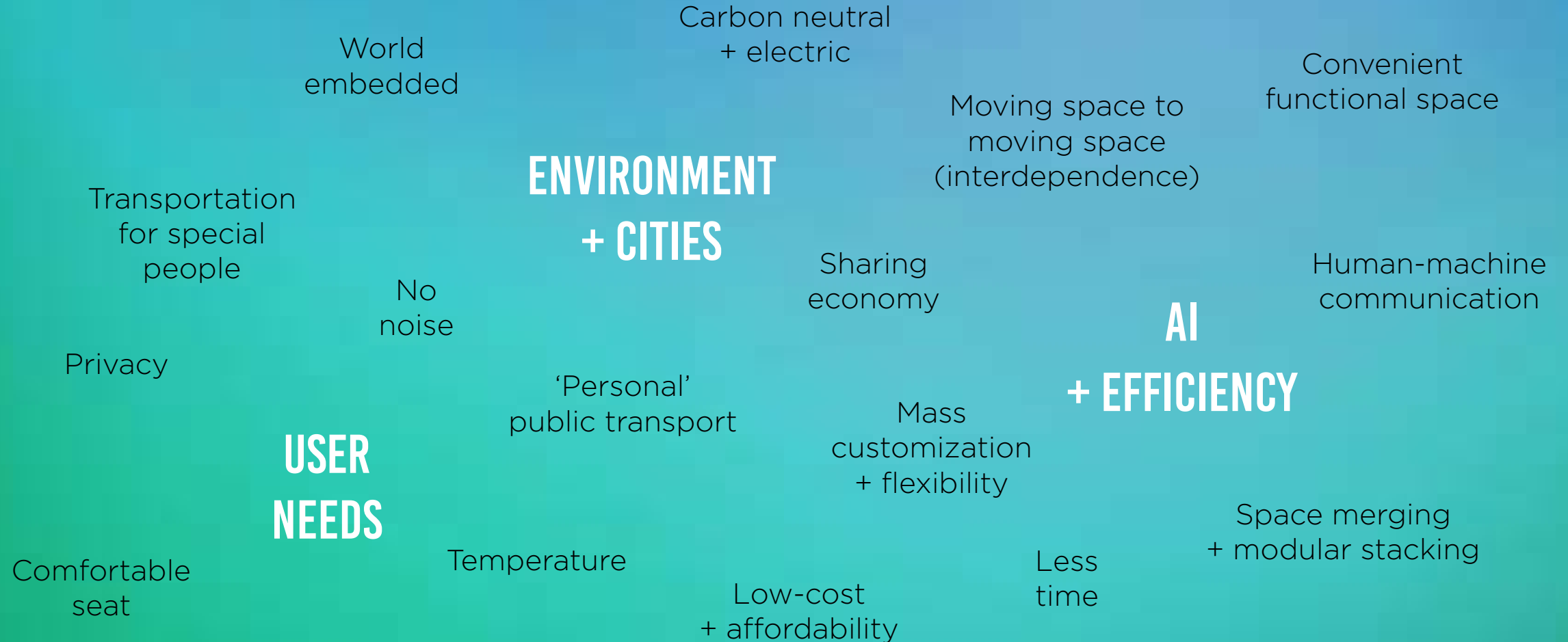


CAR PARK

NEXT-GEN URBAN MOBILITY

PIX Generative Hackathon 2018
Doris / Francesc / James / William

/ FUTURE MOBILITY DRIVERS



/ MOBILITY + PLACE

People



/ MOBILITY + PLACE

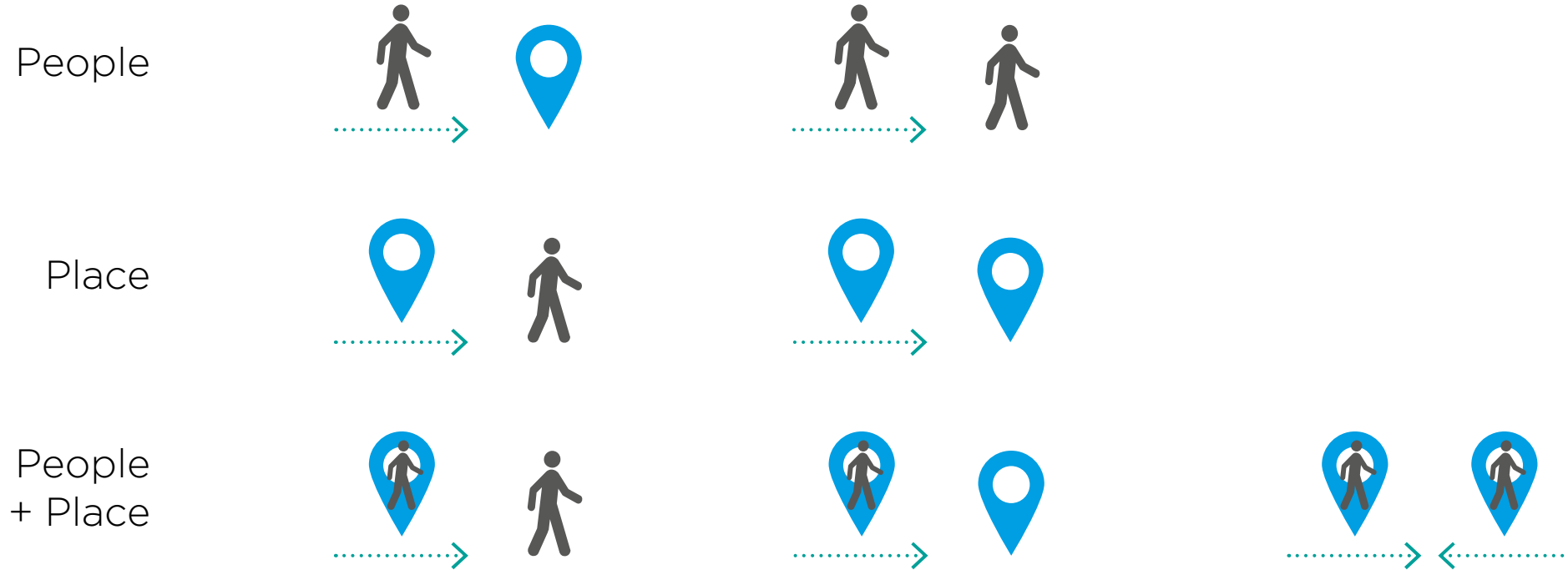
People



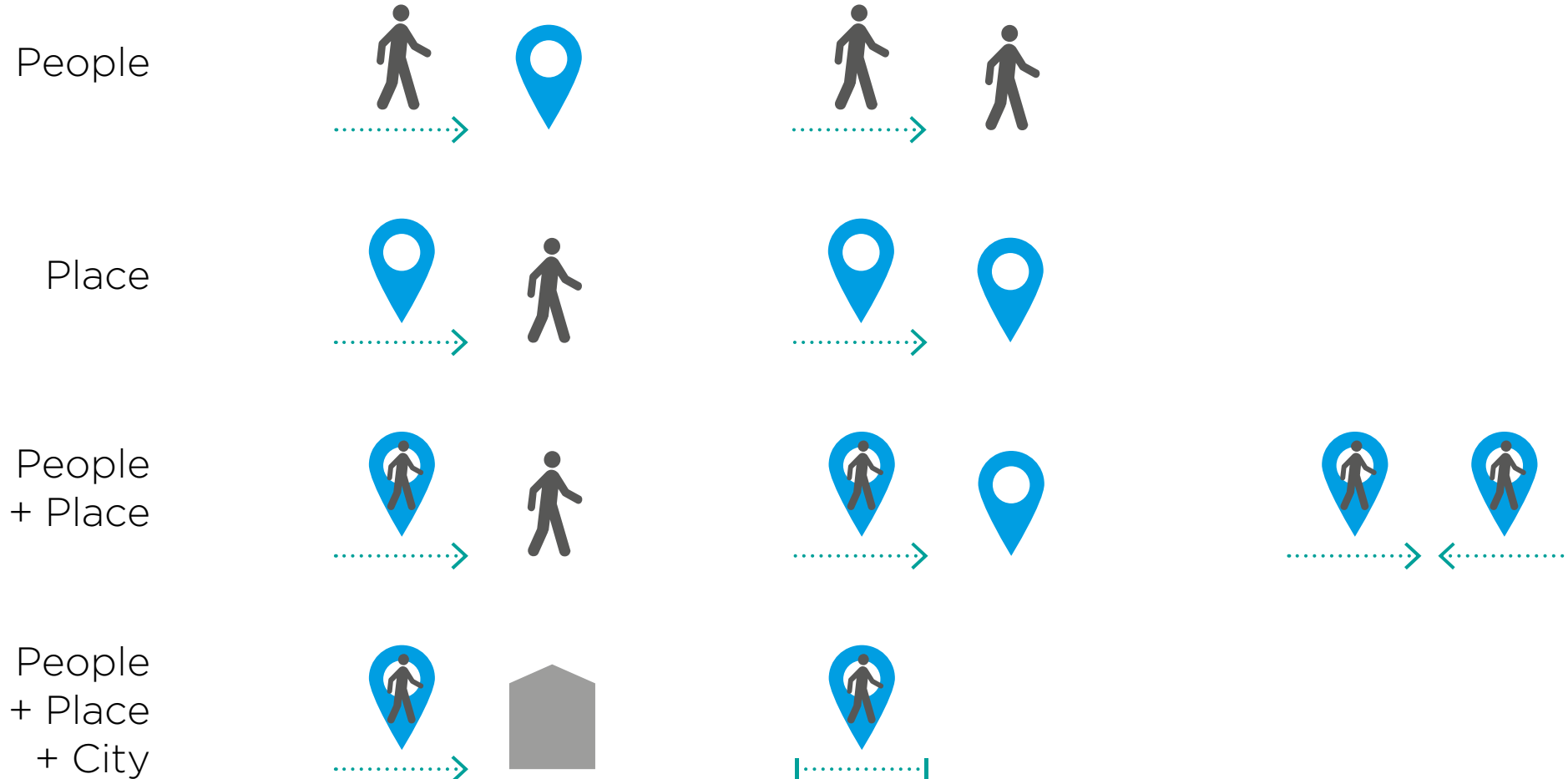
Place



/ MOBILITY + PLACE



/ MOBILITY + PLACE



/ GUIYANG URBAN PLACE USES

Happiness Dancing

Fitness

Karaoke

Watching Movies

Eating

Reading

Leisure

Selling and Commerce

Playing Chess

Sleeping

/ DESIGN CONCEPT

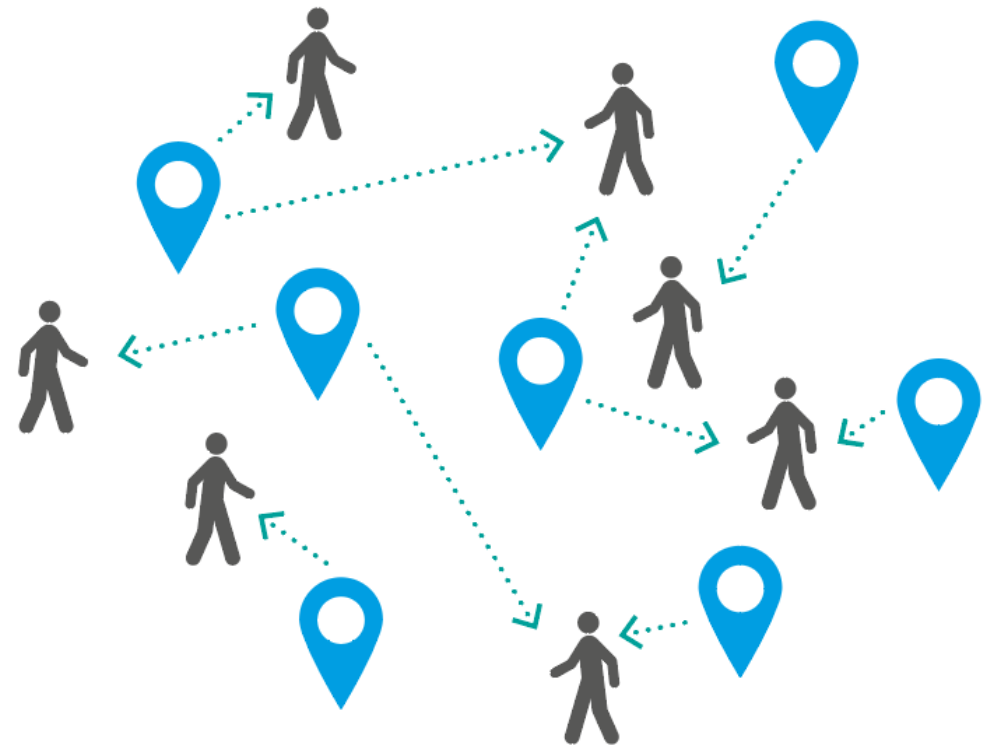


Traditional Mobility

/ DESIGN CONCEPT



Traditional Mobility

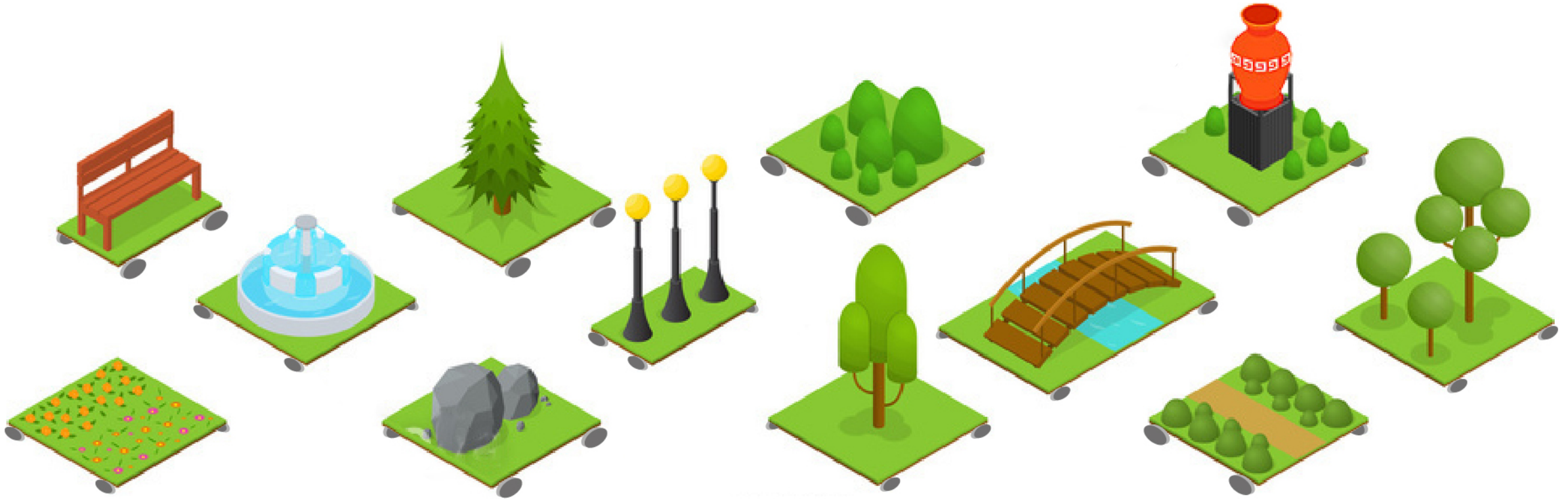


Proposed Mobility

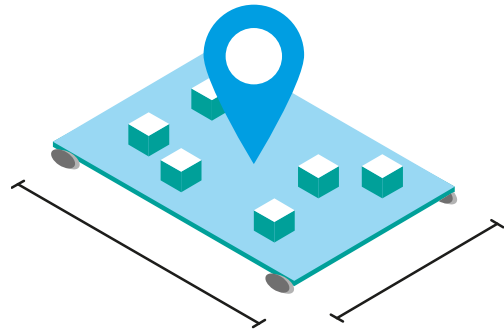
/ NEW MOBILE URBAN PLACES



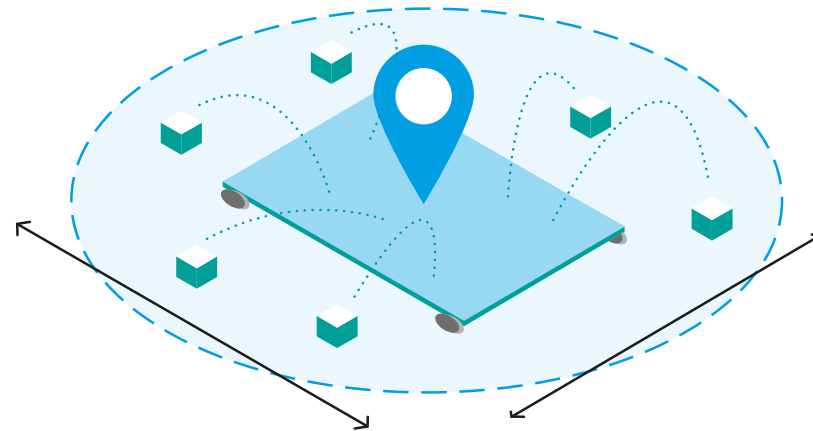
/ NEW MOBILE URBAN PLACES



/ URBAN ACTIVATION



Attraction
Limited to vehicle
dimensions

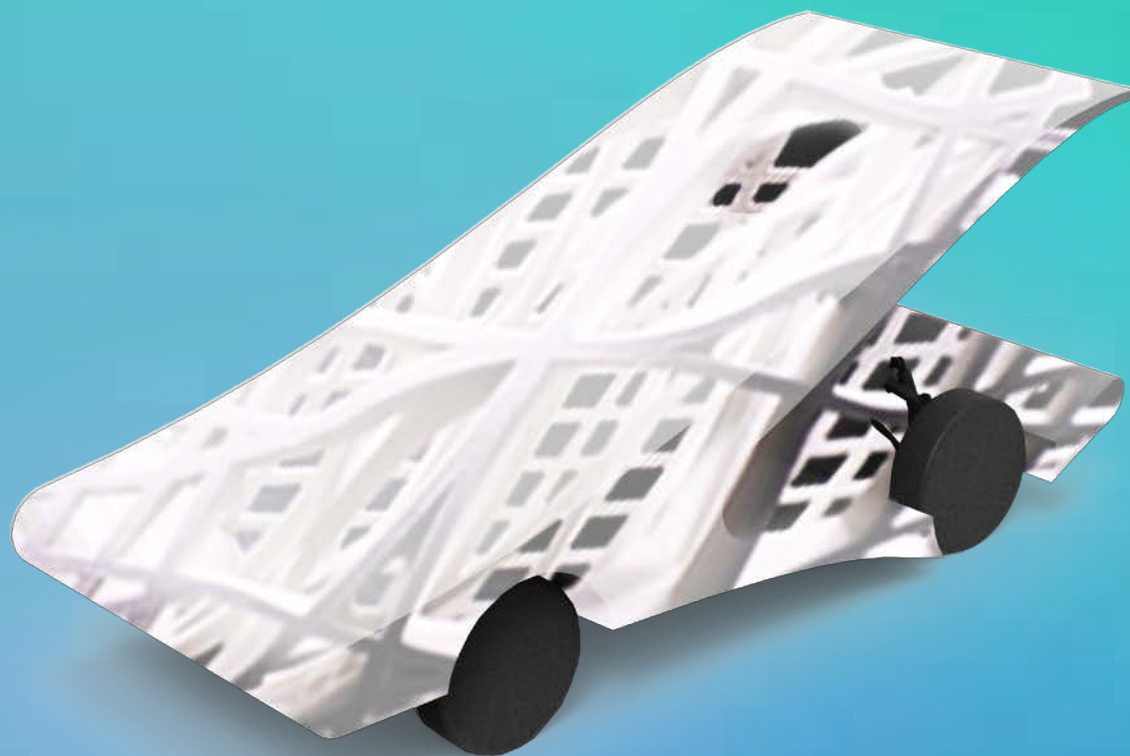


**Attraction
activating public space**
Not limited to vehicle dimensions

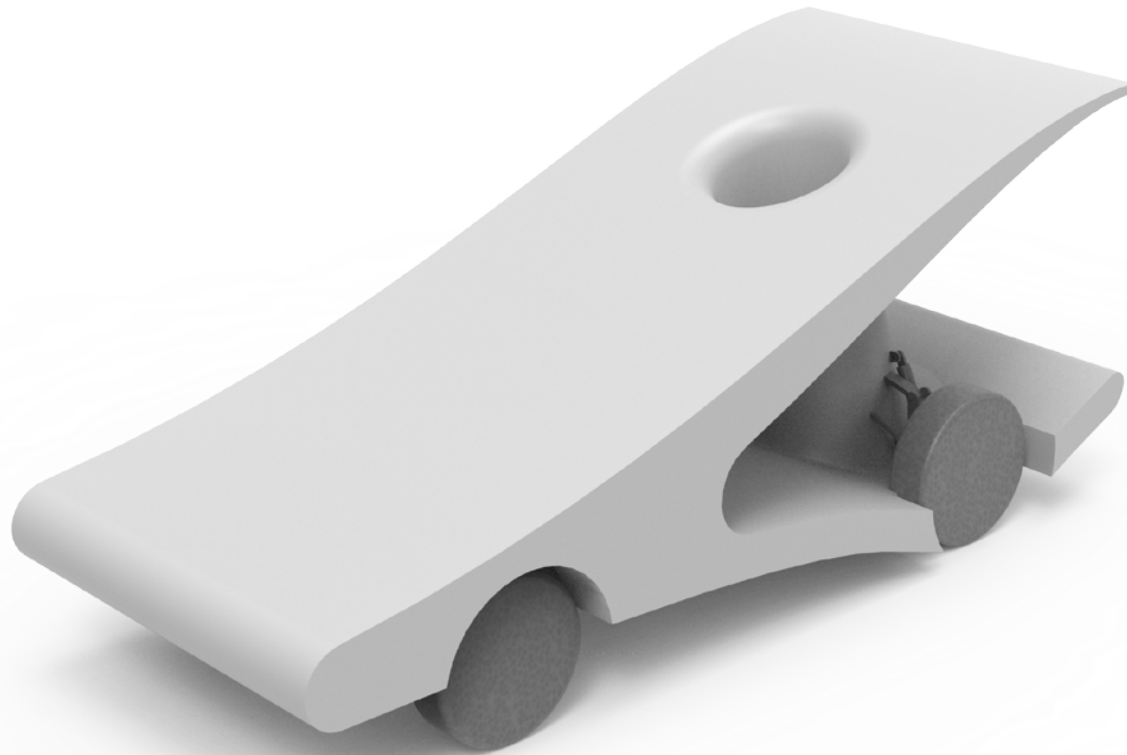


**Modular attractions
+ activating public space**
Unlimited possibilities

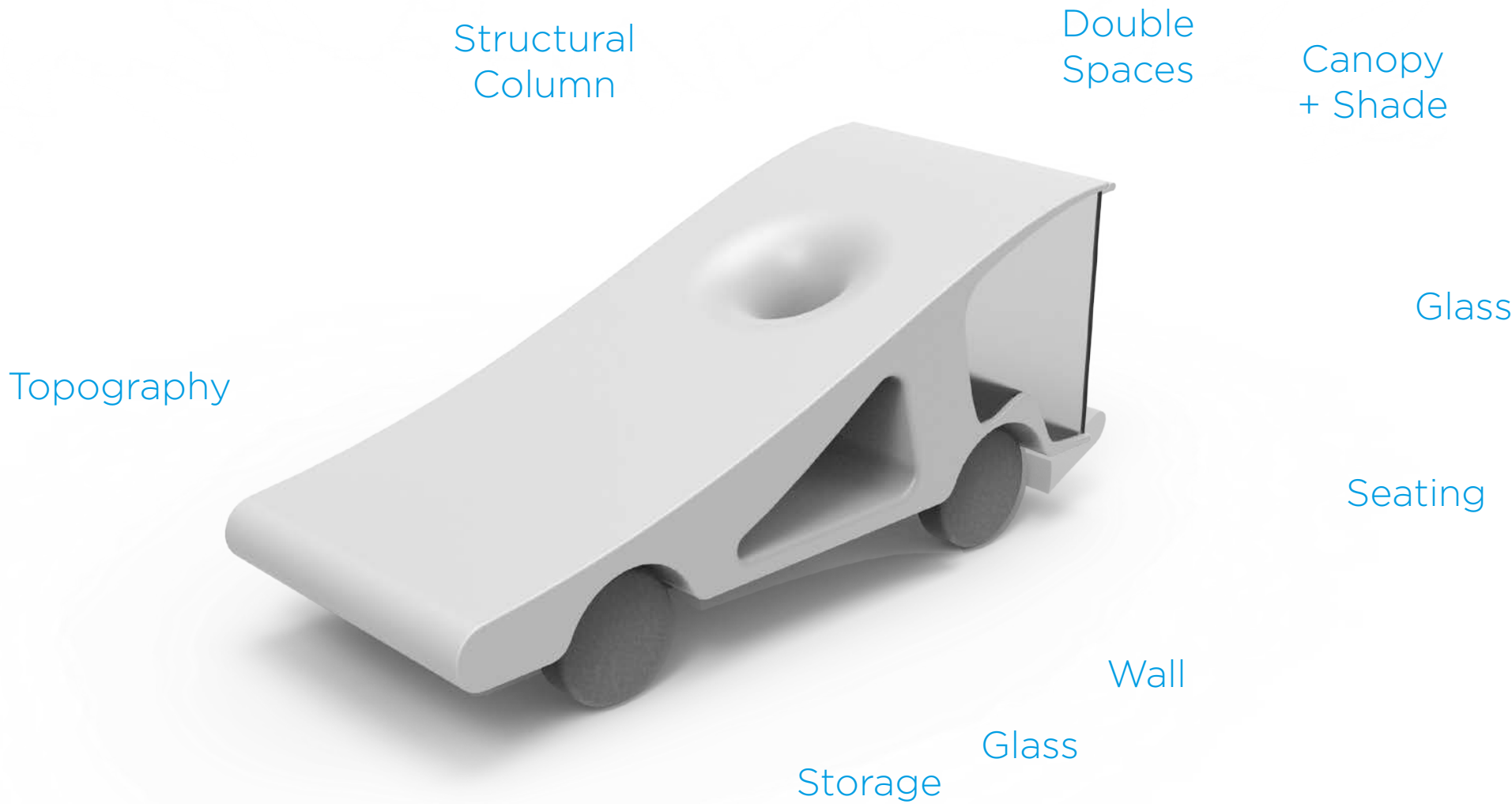
/ GENERATIVE DESIGN



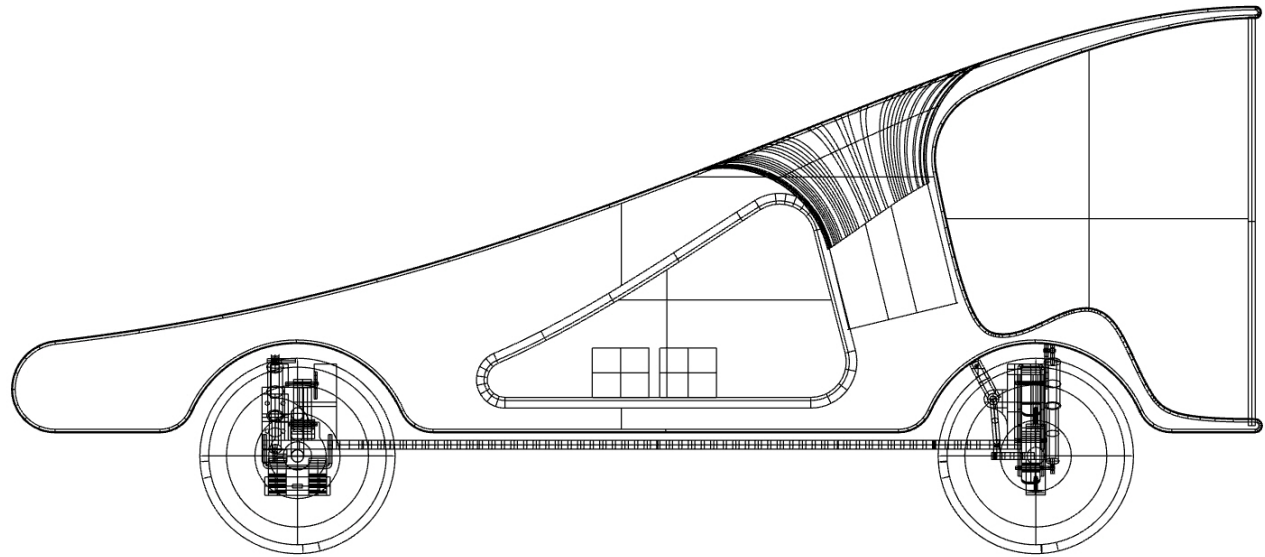
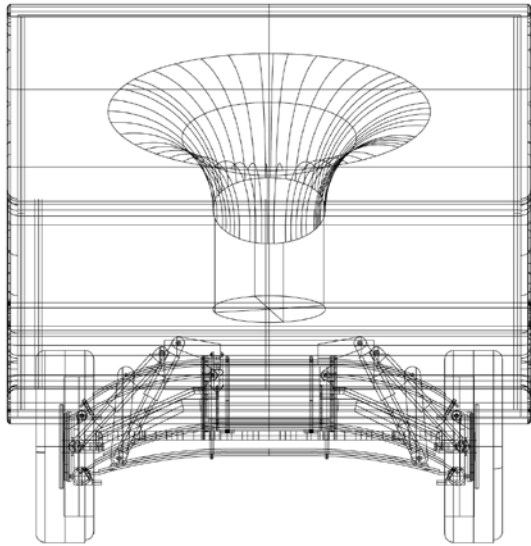
/ VEHICLE STRUCTURAL DESIGN



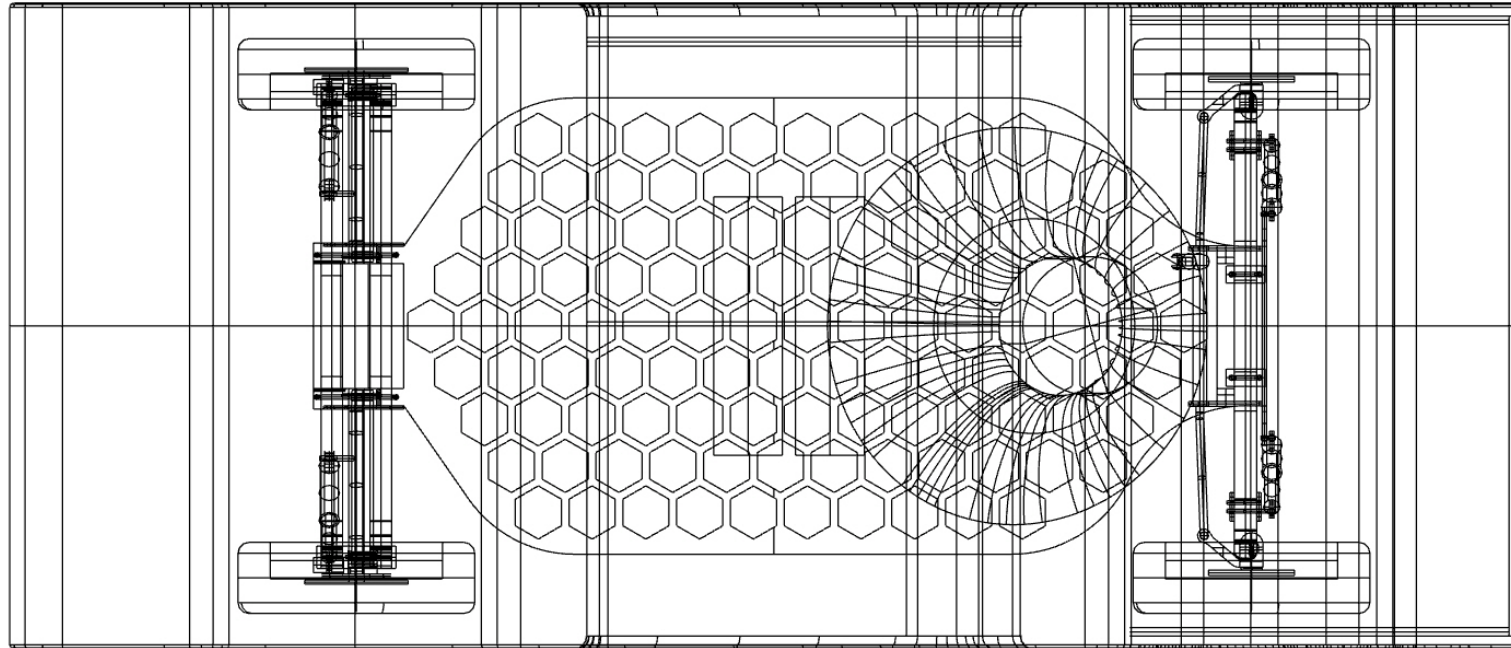
/ VEHICLE SKIN



/ TECHNICAL DRAWINGS



/ TECHNICAL DRAWINGS



/ CHASSIS ENGINEERING + DESIGN

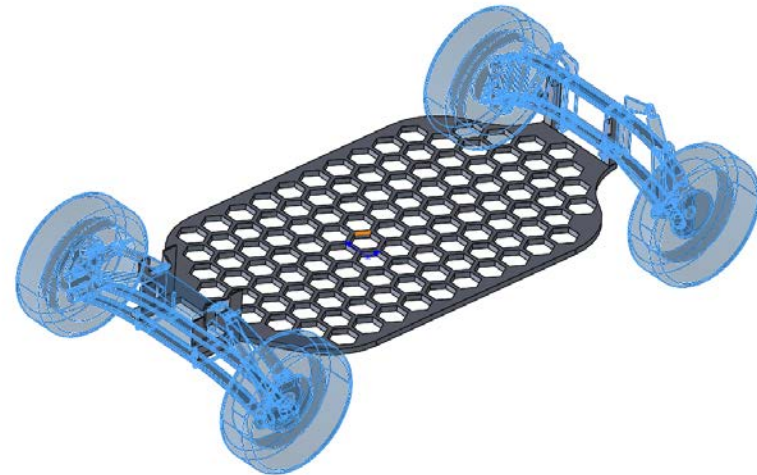
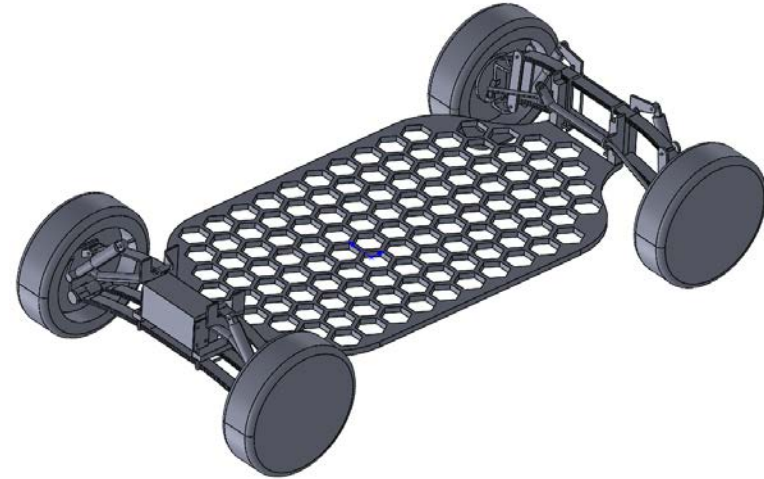
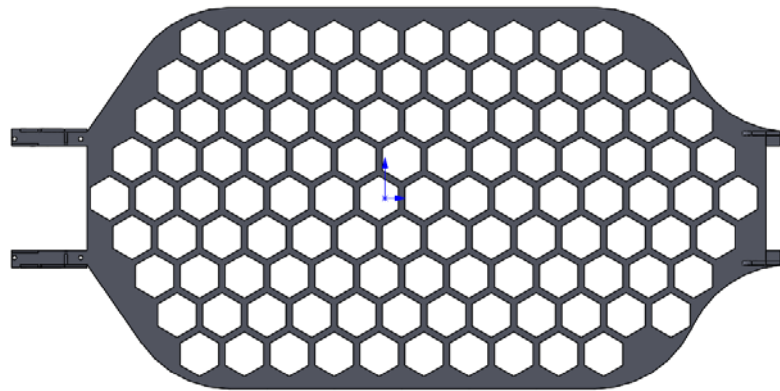
Hive shaped chassis

Thickness: 25mm

Material: Carbon steel

Number of parts: 3

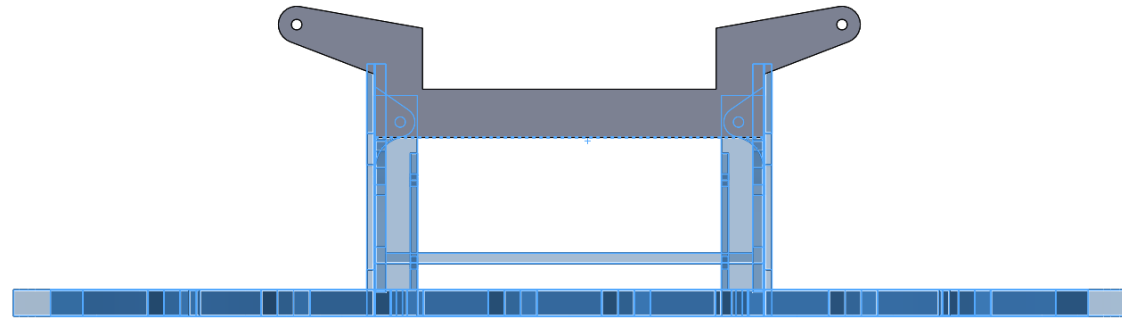
Assembly: Welding



/ CHASSIS MANUFACTURING METHOD

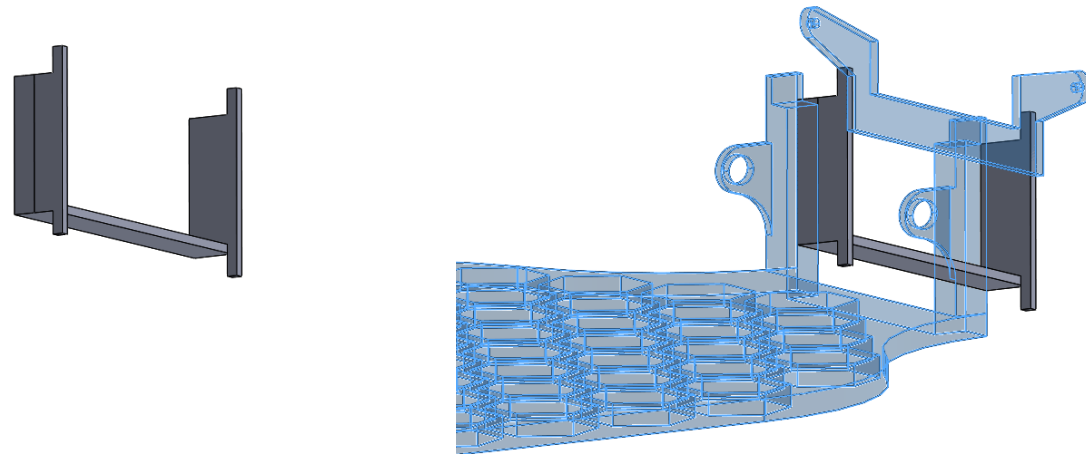
1

Cut from steel board



2

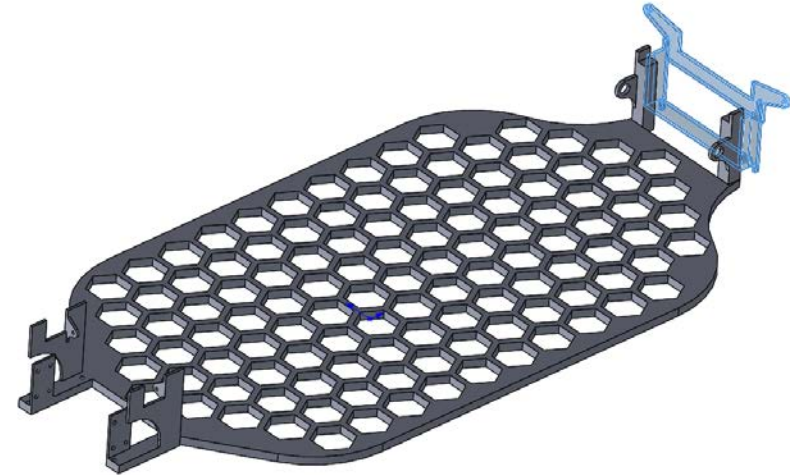
Cut from steel board
and bend



/ CHASSIS MANUFACTURING METHOD

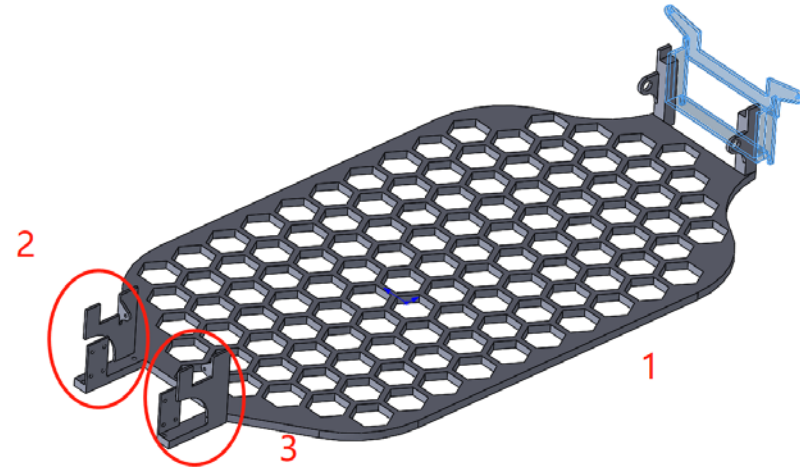
3

Metal 3D-print whole body



Cut **1**

Cut and bend **2 + 3** then
weld them together

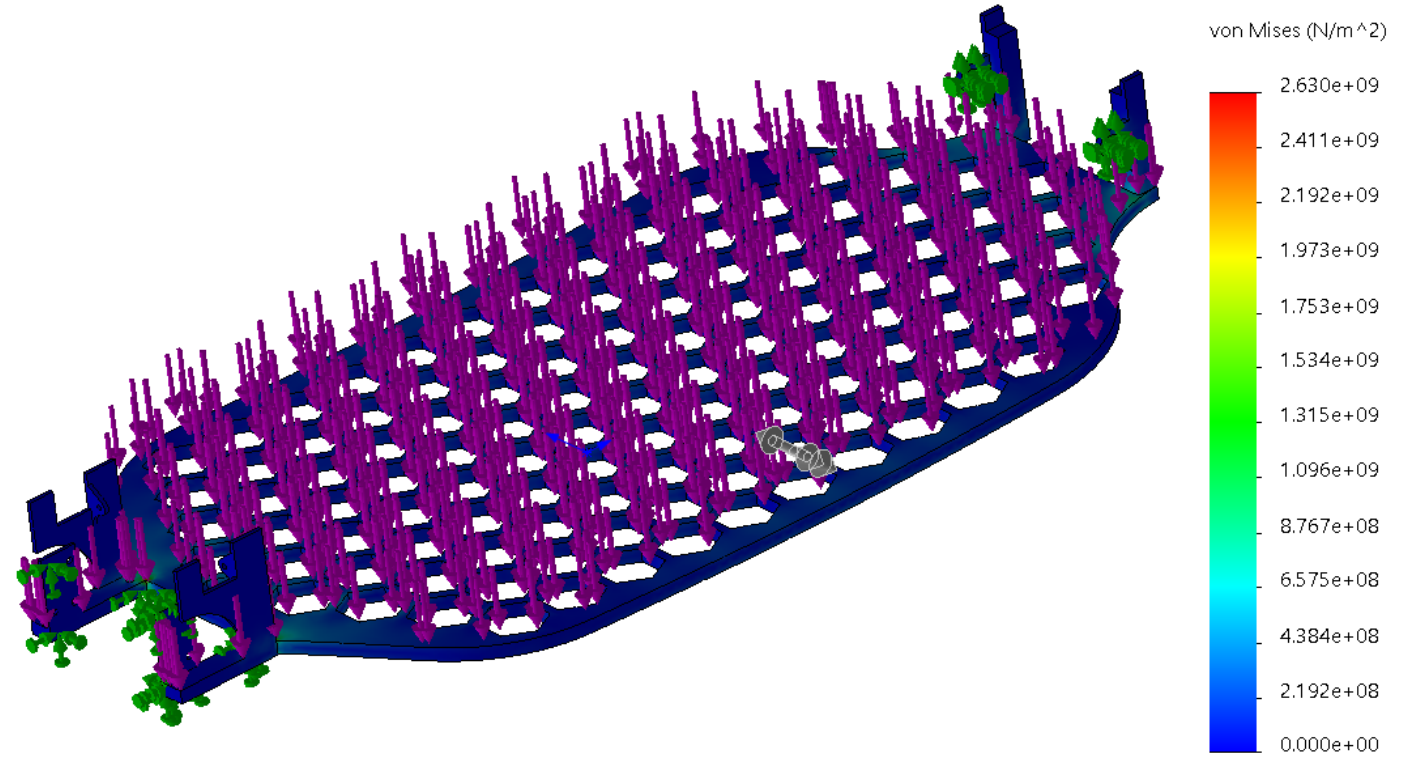


/ CHASSIS PERFORMANCE

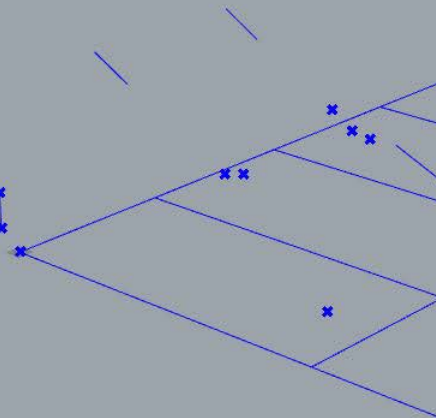
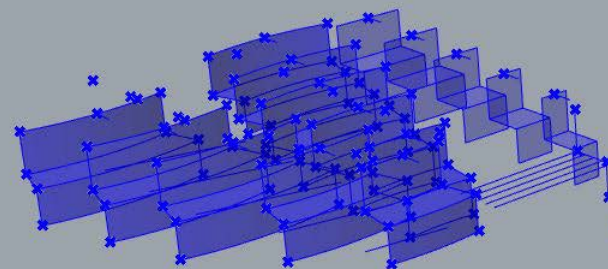
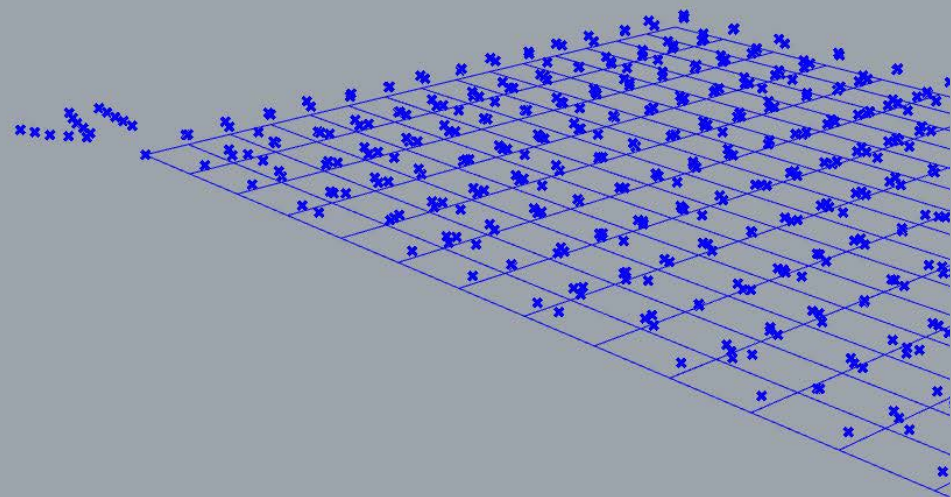
Performance under 10 tons

Blue: Good

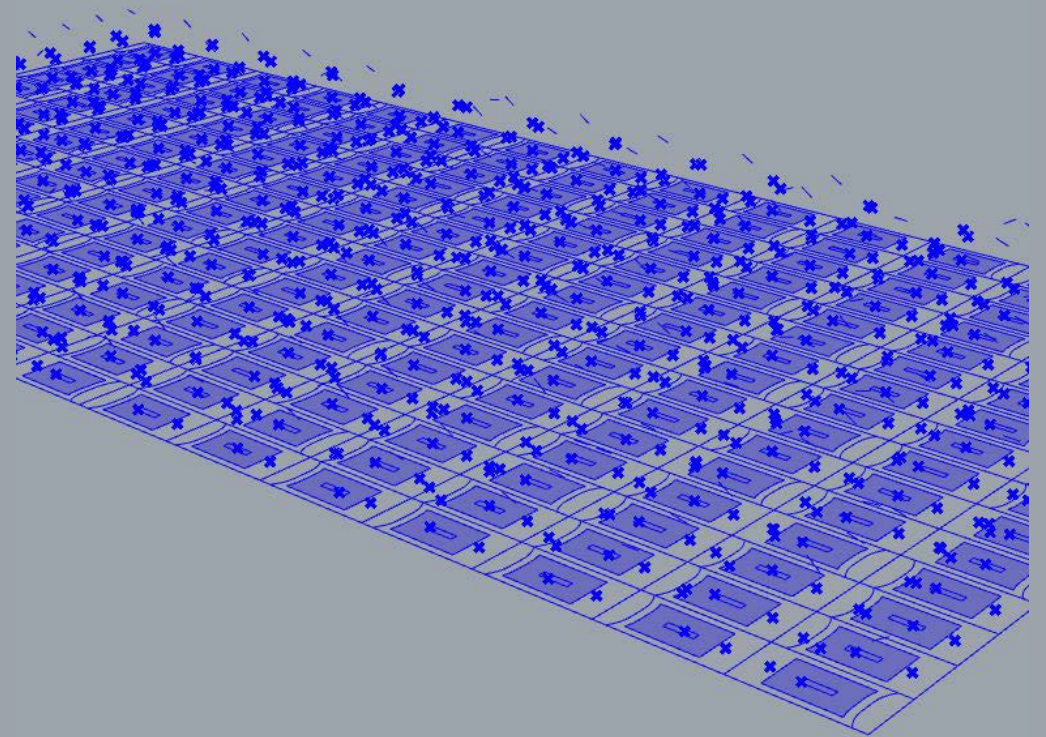
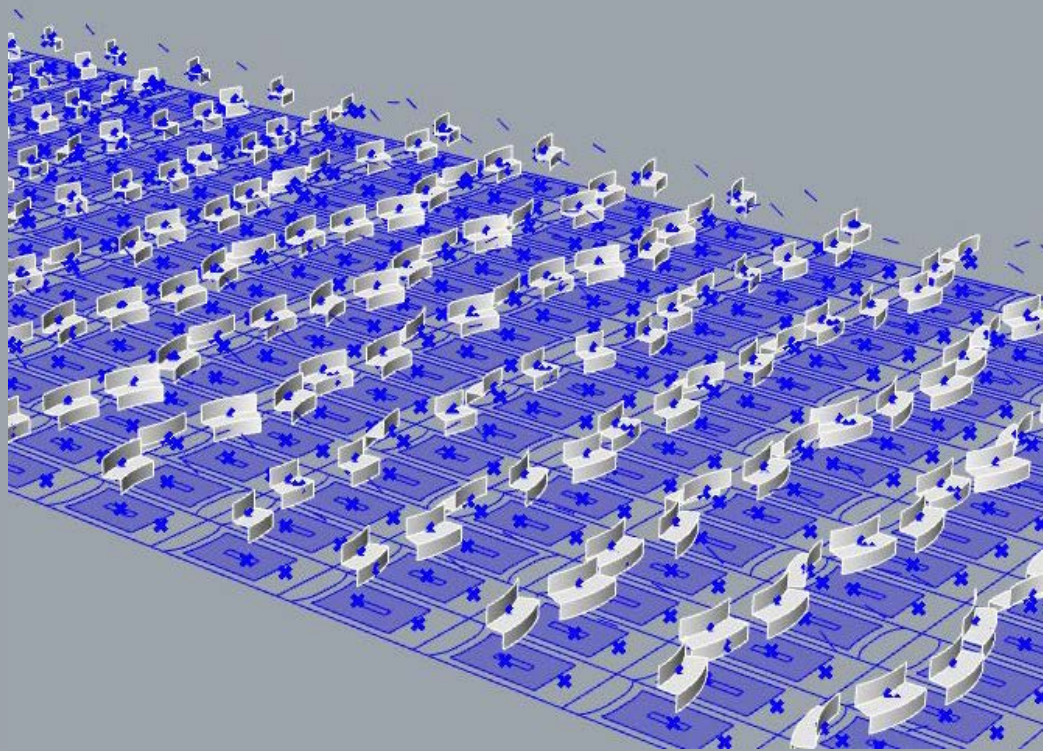
Red: Bad



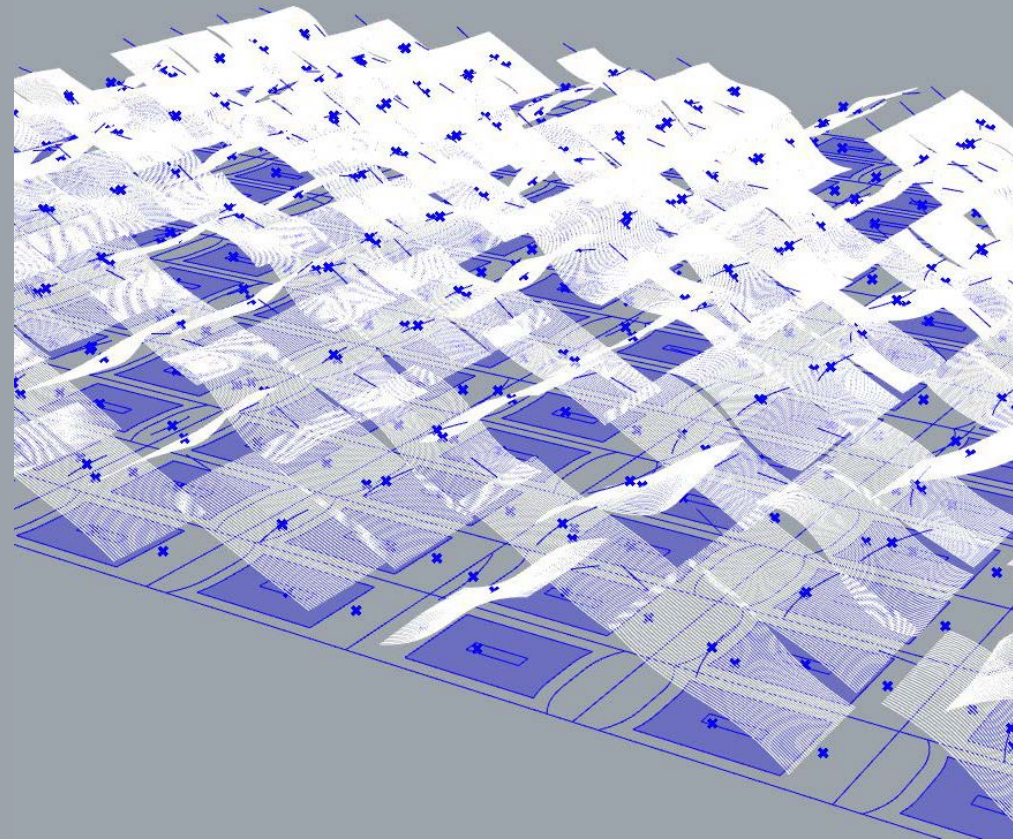
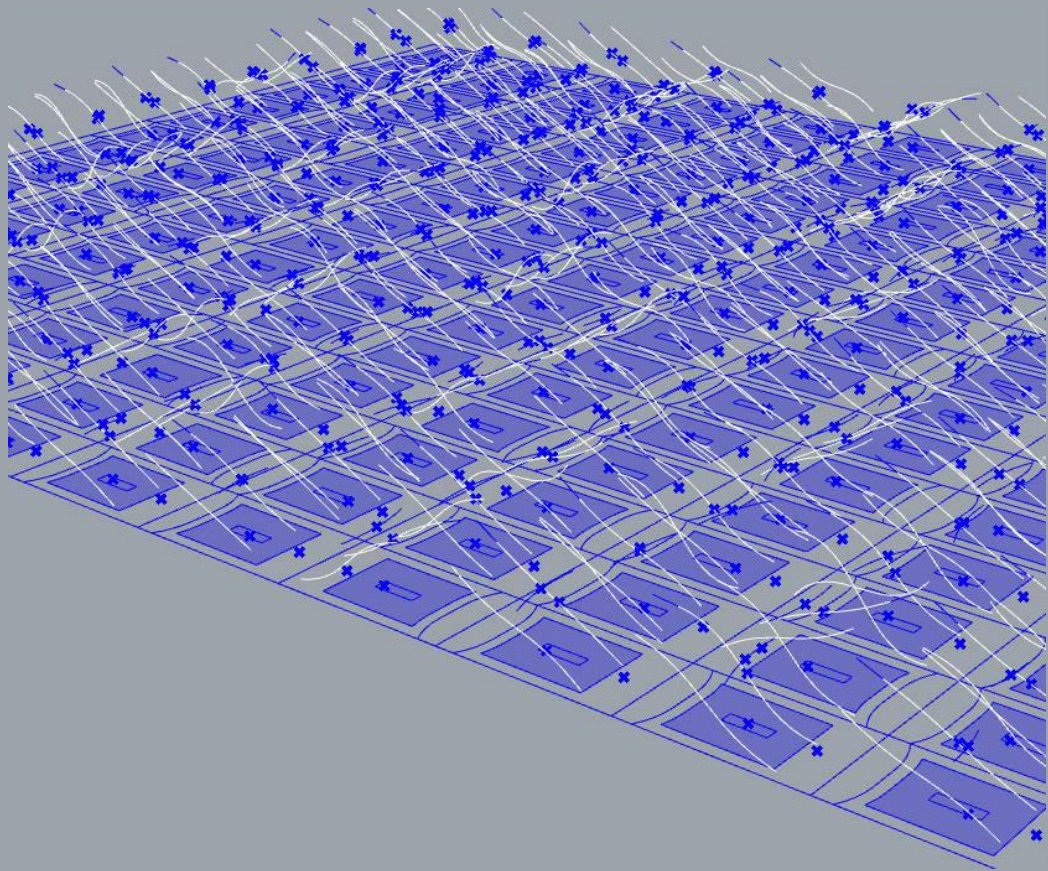
/ GENERATIVE TOPOGRAPHIC ELEMENTS



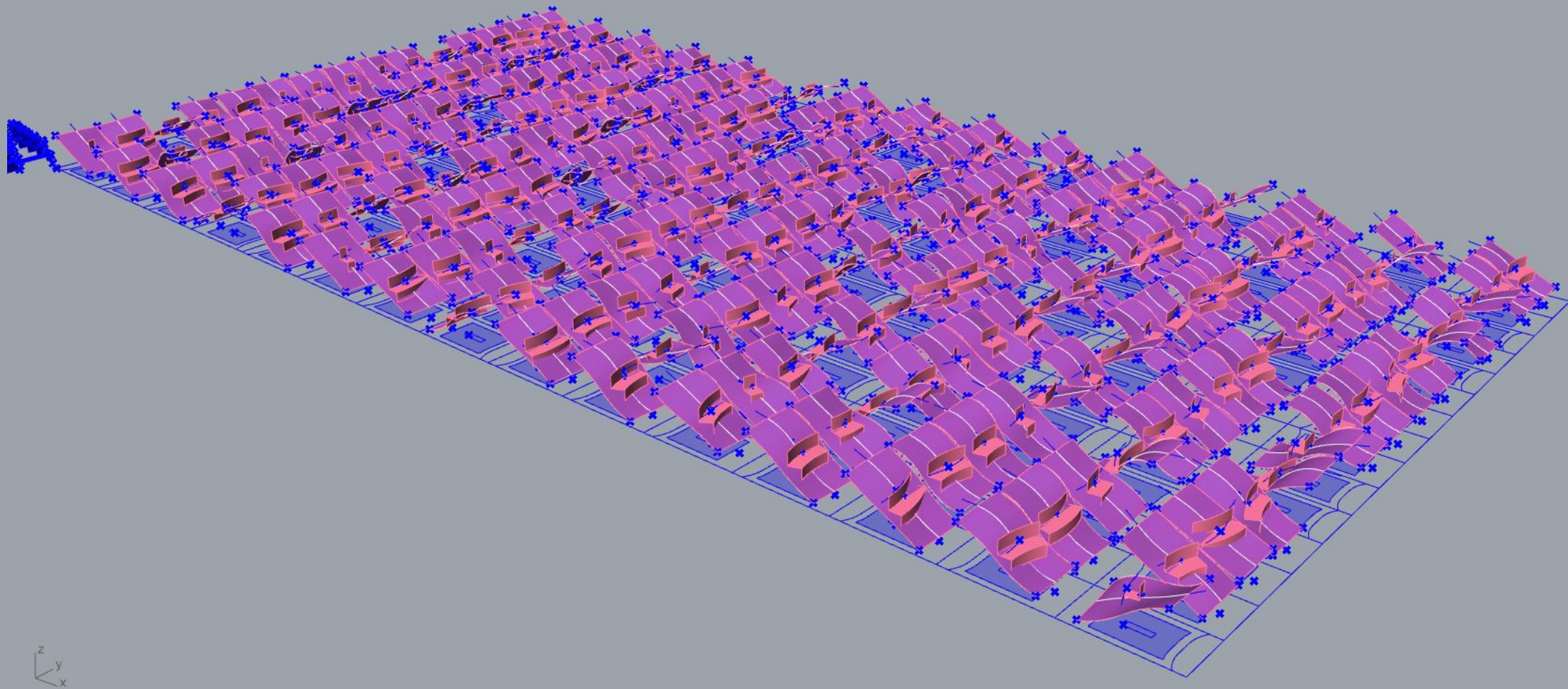
/ GENERATIVE TOPOGRAPHIC ELEMENTS



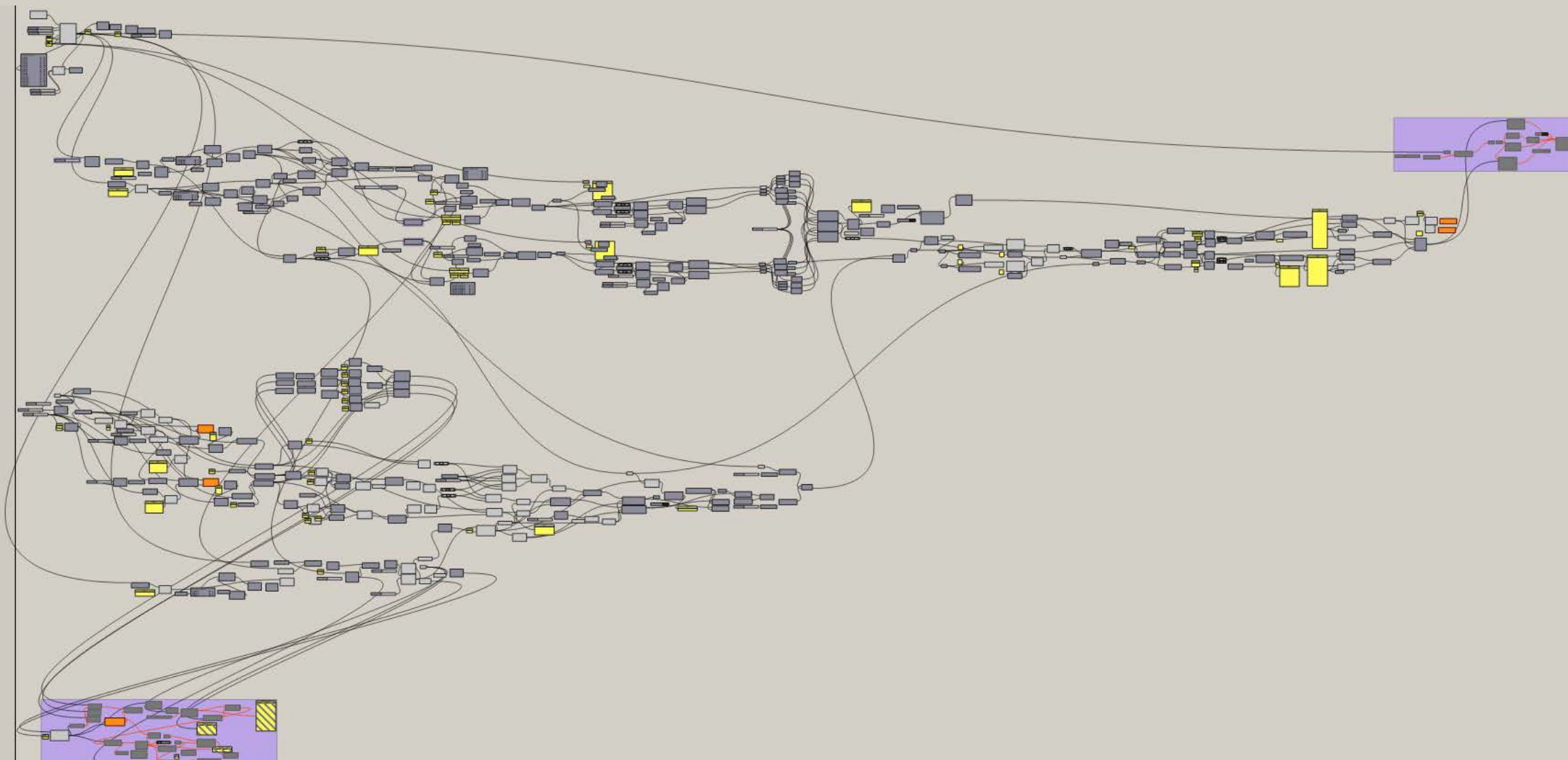
/ GENERATIVE TOPOGRAPHIC ELEMENTS



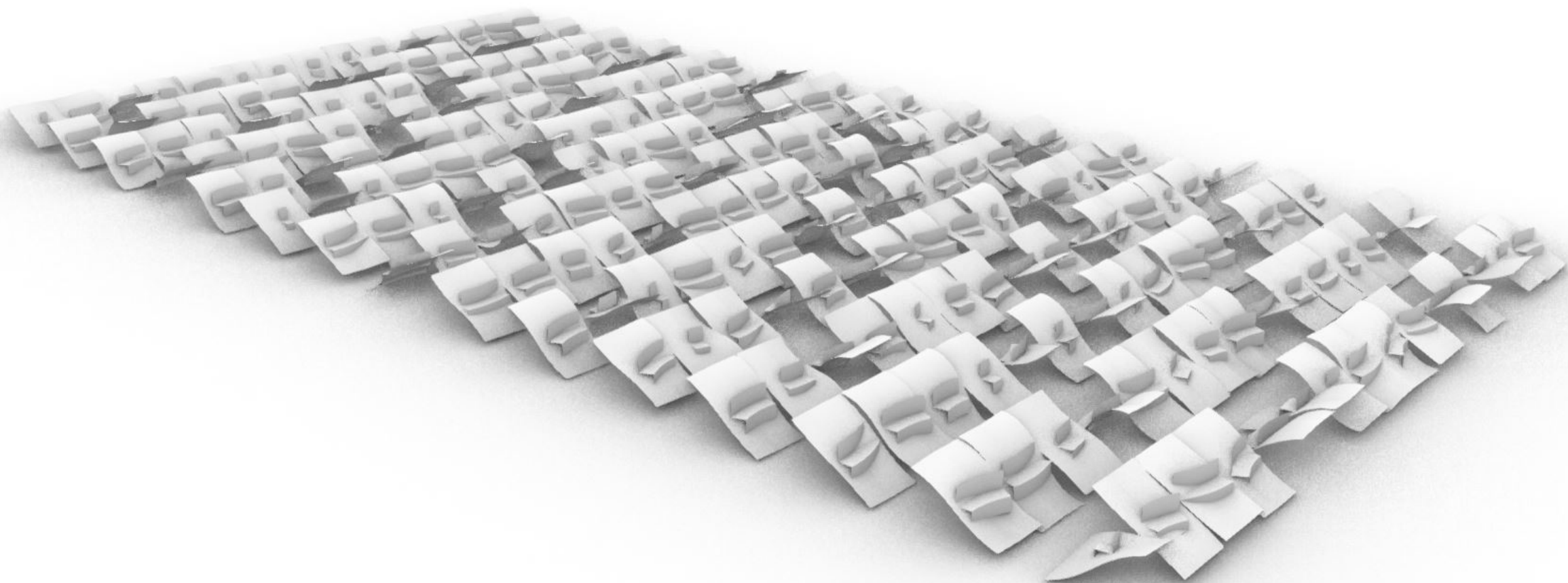
/ GENERATIVE TOPOGRAPHIC ELEMENTS



/ GRASSHOPPER SCRIPT



/ FINAL TOPOGRAPHY





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