

The background of the image consists of numerous thin, horizontal, wavy lines that create a sense of depth and movement. These lines are slightly curved and vary in their curvature, giving the overall appearance of a stylized, undulating surface or a series of overlapping planes. The lines are light gray and set against a white background.

***KOL/MAC LLC***  
*Architecture + Design*

***KOL/MAC LLC***

**ARCHITECTURE + DESIGN**

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## Firm Profile

KOL/MAC LLC is a professional architecture and design firm based in New York City and operating internationally. The firm is currently in the process of opening a second office in Istanbul, Turkey. The firm's principal, Sulan Kolatan, is of Turkish origin and has been educated in Turkey, Germany and the United States. Its director, William Mac Donald, is American and has been educated in England, Germany and the United States. Due to their respective backgrounds, they have established the firm from its inception in 1988 as **an international practice with projects, publications, exhibitions and lectures located worldwide.**

Widely acknowledged as a **leader in architecture and design for its innovative digital approach**, the firm's current work is focused on linking unique digital design methods to **new methods of construction, new technologies of production and a new generation of materials. KOL/MAC LLC designs are unique in their field.** They utilize **advanced 3D software tools from outside the field of architecture in order create more intelligent and extraordinary architectures.** This represents a creative method and a view toward problem-solving that is **firmly rooted in the 21st century.** Alongside its projects, the firm continues to do its own research in order to evolve its design tools. KOL/MAC LLC's core philosophy is based on **bringing together advanced technologies and the human desire for a beautiful, healthy and functional environment in ways that are both unexpected and thought-provoking.**

Unlike conventional architectural firms, KOL/MAC LLC operates as a distributed office by forming project-based teams and collaborations locally, nationally and internationally. Previous and current **collaborations include elite firms who are leaders in their respective fields** such as the British engineering firm **Arup AGU London**, the US landscaping firm **Hargreaves Associates**, the French lighting and scénography firm **Duckscéno** and the Canadian real-time artificial intelligence software firm **Biographic Technologies, Inc.** among others.

KOL/MAC LLC's work ranges from large urban design proposals to furniture lines, from institutional to commercial projects, from virtual environments to advanced prototyping. The firm selects projects based on interest rather than type or scale. Recent projects include the competition for the **redevelopment of the Carlsberg brewery site in Copenhagen, Denmark**, the competition for the **FRAC Museum for Contemporary Art and Architecture in Orléans, France** and the design and development of a **high-performance ecological skin for highrise buildings sponsored by DuPont Corian.** At the other end of the scale spectrum there is currently the design for a series of light fixtures to be produced by state-of-the-art rapid prototyping methods for a european lighting industry leader and the design for a production line of chaise longues based on artificial intelligence software.

Among the many awards the firm has received todate one stands out in particular as a benchmark. Sulan Kolatan and William Mac Donald were two of **"Forty (best US architects) under Forty (years)", a US award given every ten years by a special**

**jury of architects to pin-point the next generation's most talented.**

KOL/MAC LLC's role as one of a select group of top young design firms was further affirmed through an **appointment by the United States State Department to represent the US at its national pavillion at the 9<sup>th</sup> International Architecture Biennale in Venice.** During the same biennale KOL/MAC LLC was also chosen by Kurt Foster, the exhibition curator, to show the project for the redevelopment of Manhattan's 5th Avenue the international section. **The firm's principal, Sulan Kolatan, is the first turkish architect to be invited to the official section of the Venice Biennale.**

KOL/MAC LLC appears in a great number of international shows worldwide. The firm's first inclusion in the **Museum of Modern Art (New York) was in "The Un-Private House"**, the first architecture show at this museum to become a "blockbuster". Other KOL/MAC LLC work has been exhibited there since, with the most recent project being **INVERSAbrane-an Invertible Ecological Building Membrane** featured in "SAFE-design takes on risk".

The firm's avant-guard position in digital design and fabrication has brought Kolatan and Mac Donald and their work to lectures, conferences and shows across the world- to Europe, China, Russia, Australia and the Middle East. **KOL/MAC LLC's inclusion in seminal events and publications furthering digital design in architecture** is marked specifically by an **exhibition and conference at the Centre Georges Pompidou (Paris) titled "Architecture Non-Standard".** Only 11 firms from around the world were showcased here, together with KOL/MAC LLC, as **standard-bearers for a historically significant new approach in architectural design.**

Following this exhibition, **one of KOL/MAC LLC's projects on display, the RESI(dential) high RISE, was purchased by the museum's board for the Pompidou's permanent collection.** This represents one of many other purchases of KOL/MAC LLC work by some of the **world's finest museums for their permanent collections.** As the purpose of these collections is to preserve work deemed important for their time, Kolatan and Mac Donald are greatly honored to have their work **viewed as part of an architectural legacy.**

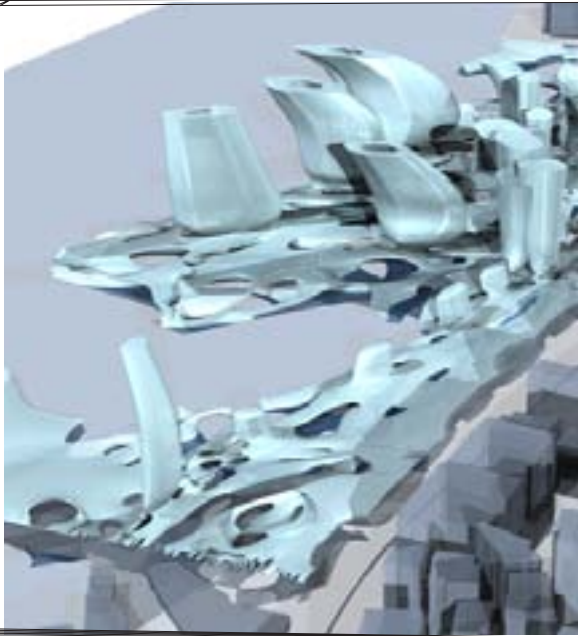
Additionally, Kolatan and Mac Donald bring to their firm a **high level of professionalism and experience with large-scale projects.** They have a combined experience of 12 years in prestigious corporate architecture firms in New York -Kolatan at KPF and Mac Donald at SOM. Their expertise includes the design and management of 100,000+ sm projects with budgets of \$200,000,000+ and high-profile clients such as **General Electrics and Olympia + York.**

KOL/MAC LLC believes in **adding value through design excellence** -to the everyday experience of the individual, to contemporary urban culture, and to the clients' goals and investments. While always **forward-looking and progressive, the firm is equally sensitive to the programmatic, situational and socio-economic conditions defining each project.** It is our experience that design excellence is achieved by forming **strong architect/client relationships.**



***GALATAPORT***

***Urban Development***



**Description:**

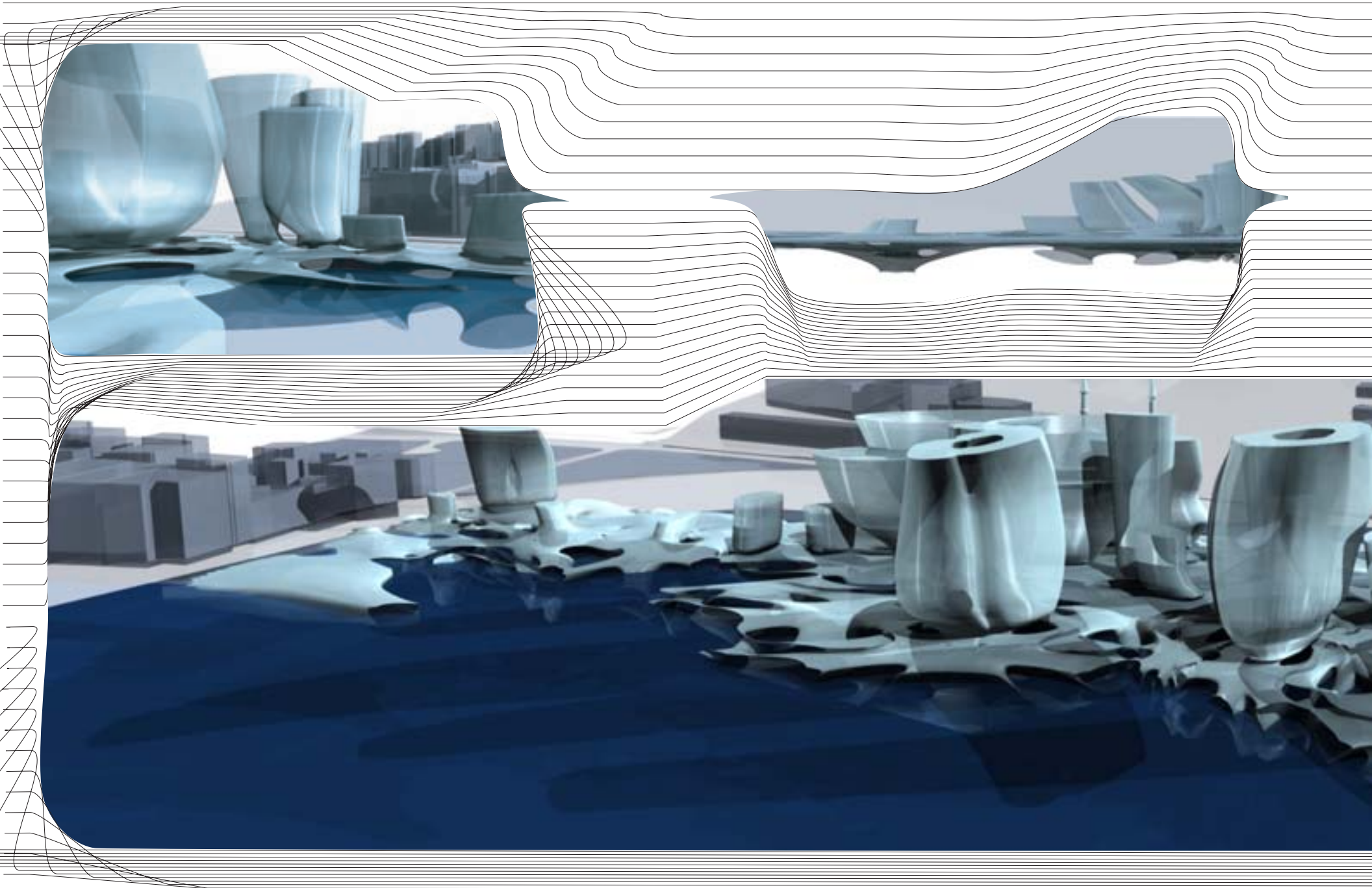
A google earth aerial view of the site shows that the entire area is a single patch defined by large scale single purpose structures, hard edges and impermeable surfaces. According to what we know from urban ecology about patch dynamics this is a worst case scenario. In patches with these characteristics environmental pathologies multiply. In fact, when we zoom out to look at aster data imaging of Istanbul, we see that at a macro-scale a similar scenario is being played out. The image shows the gradual homogenization of patch dynamics and the encroachment of the urban surface on the natural surface.

In keeping with the patch paradigm, the MUTEN Galataport project starts out by considering the entire urban surface as a continuum. There are no discrete separations between horizontal, vertical and inclined surfaces. Instead the surface differentiates as needed. Minimal surface geometry and surface topology are favored over building typology. The design's geometry produces a permeable complex surface with the potential to positively affect the flow of water and wind as well as the absorption of solar energy. Structurally, the minimal surface is highly economical in that it affords strength through curvature and form instead of thickness of material. The break-down of the surface into many small patch-entities is additionally advantageous to the seismic engineering of the site. It is envisioned that there shall be correspondences between topology patches and ecology patches. Each patch variation combines building, nature, and infrastructure to varying degrees.

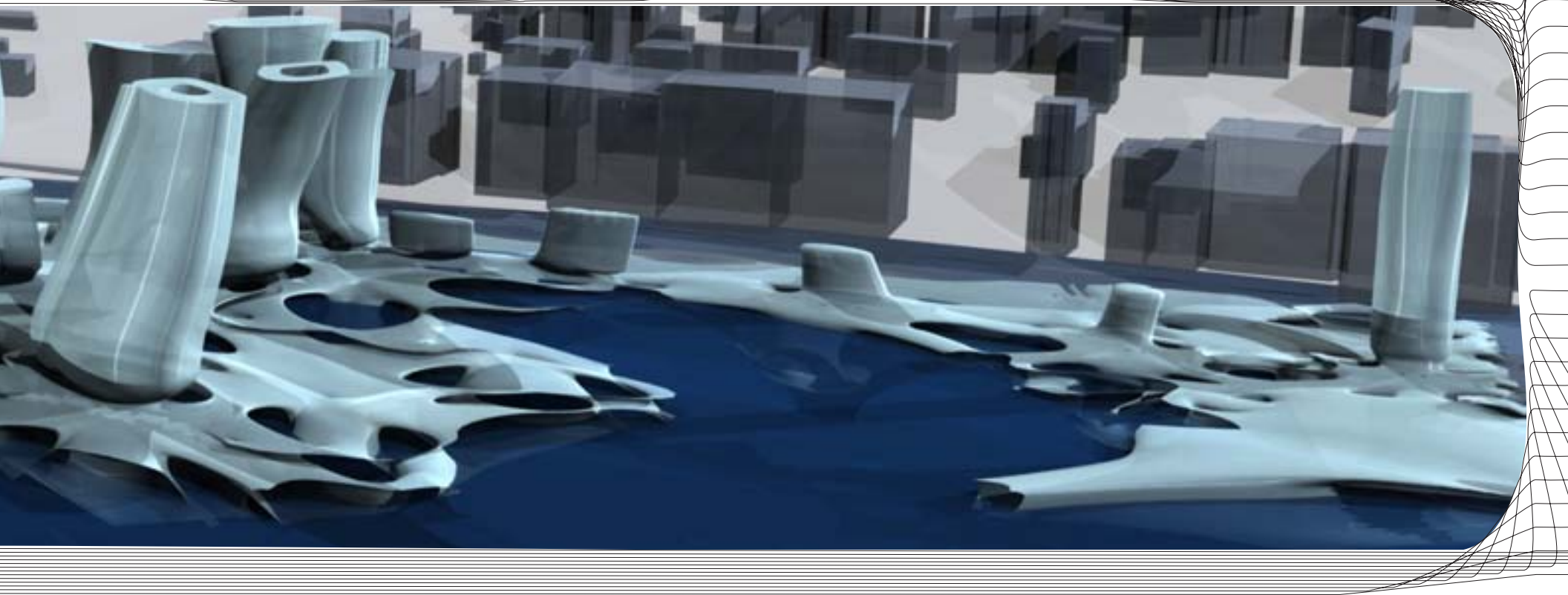
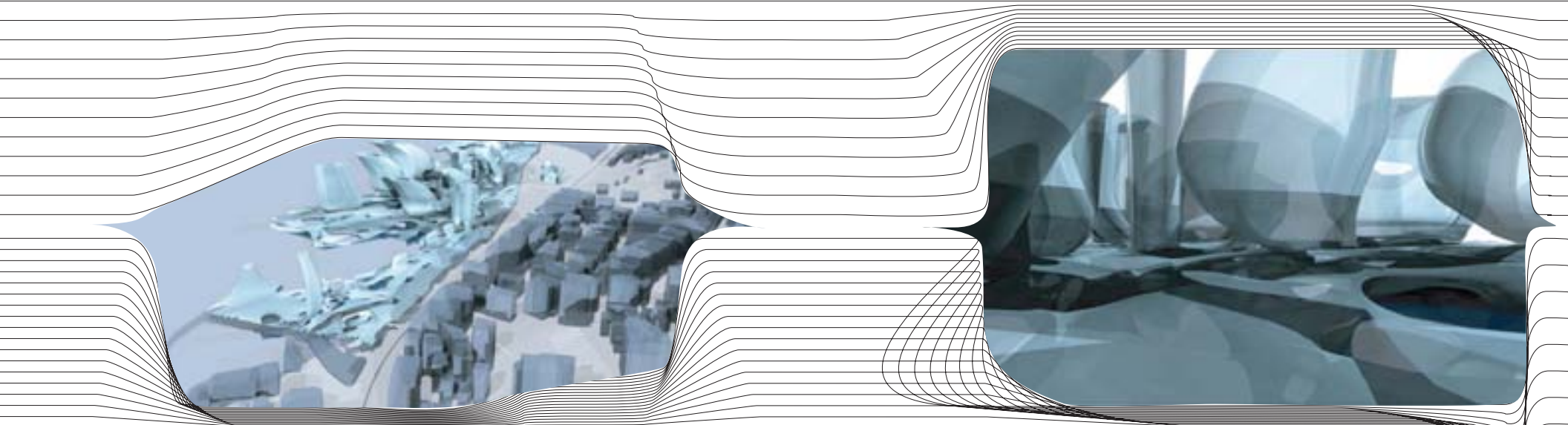
Based on the method described above, it is possible to derive many different options for the site with varying parameters. We are showcasing one such option at GG.

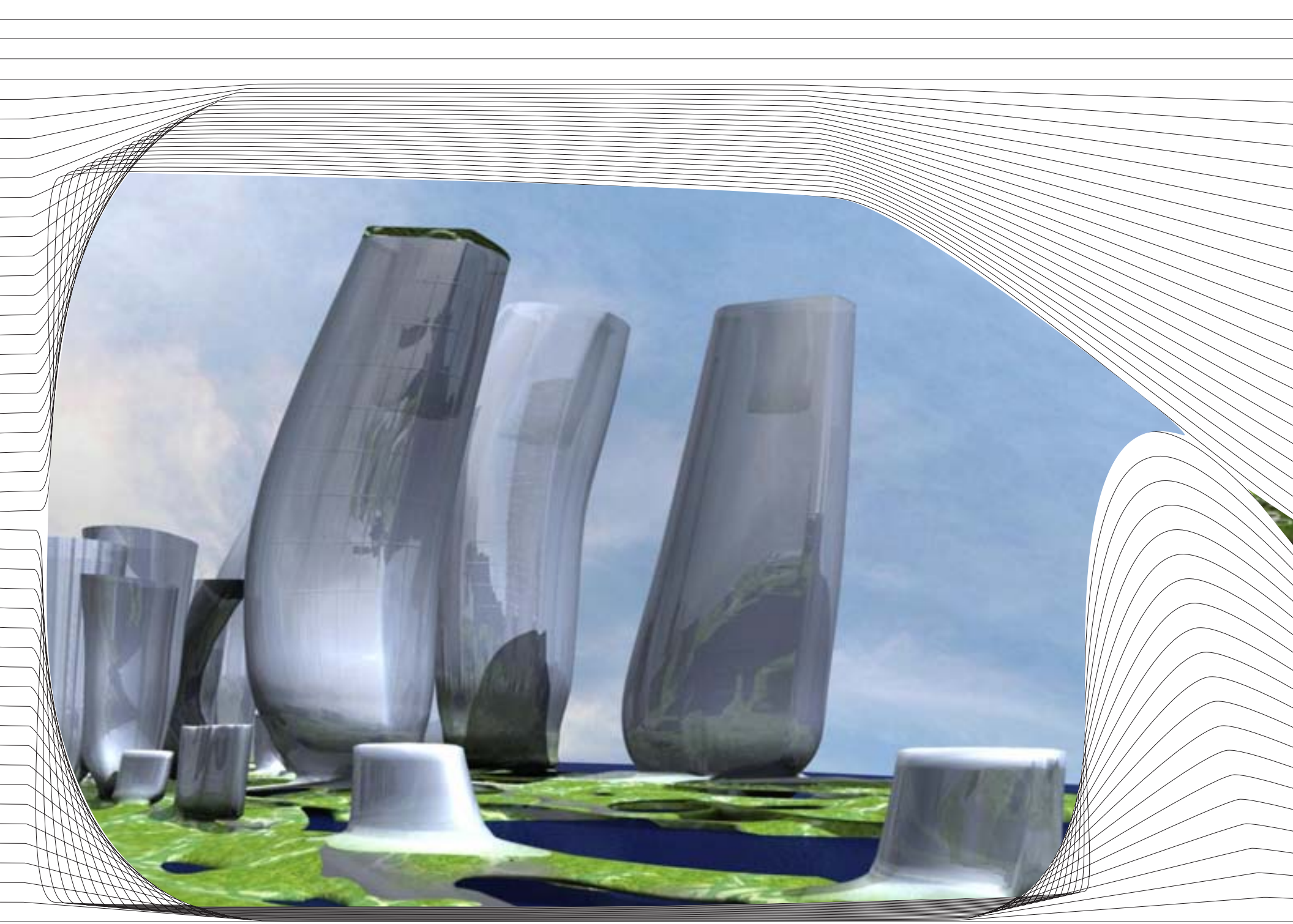
**Project Type:**  
Coastal Urban Development  
**Location:**  
Istanbul, Turkey  
**Total Area:**  
100,000 m<sup>2</sup>  
**Key Staff Members on Project:**  
**Design Principal:**  
Sulan Kolatan  
**Design Principal:**  
William Mac Donald  
**Senior Designer:**  
Robert Cervellione  
**Client/Sponsor:**  
Garanti Bank/Garanti Galeri  
**Client Representative:**  
Consultant:  
Arup AGU, London



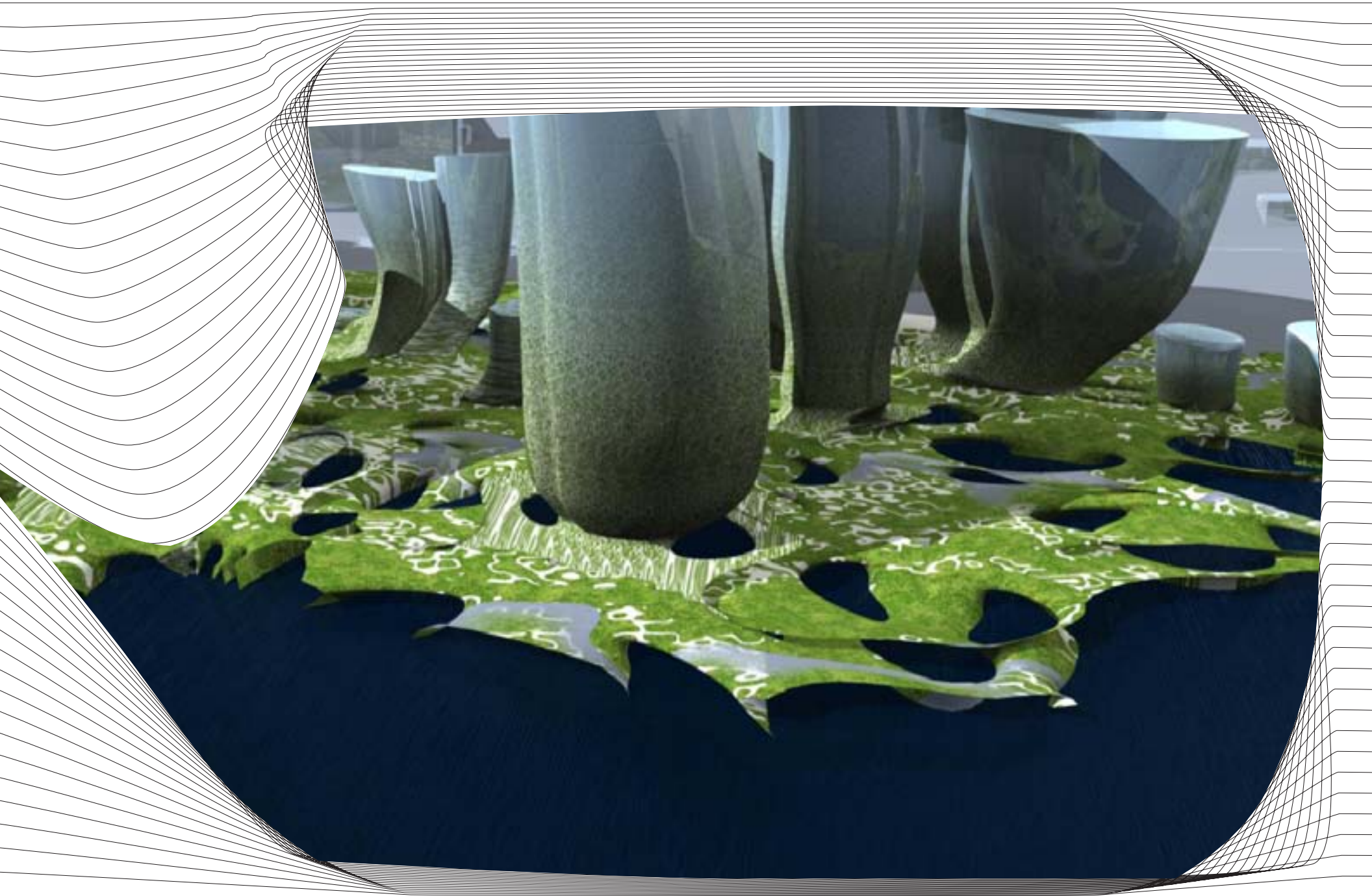


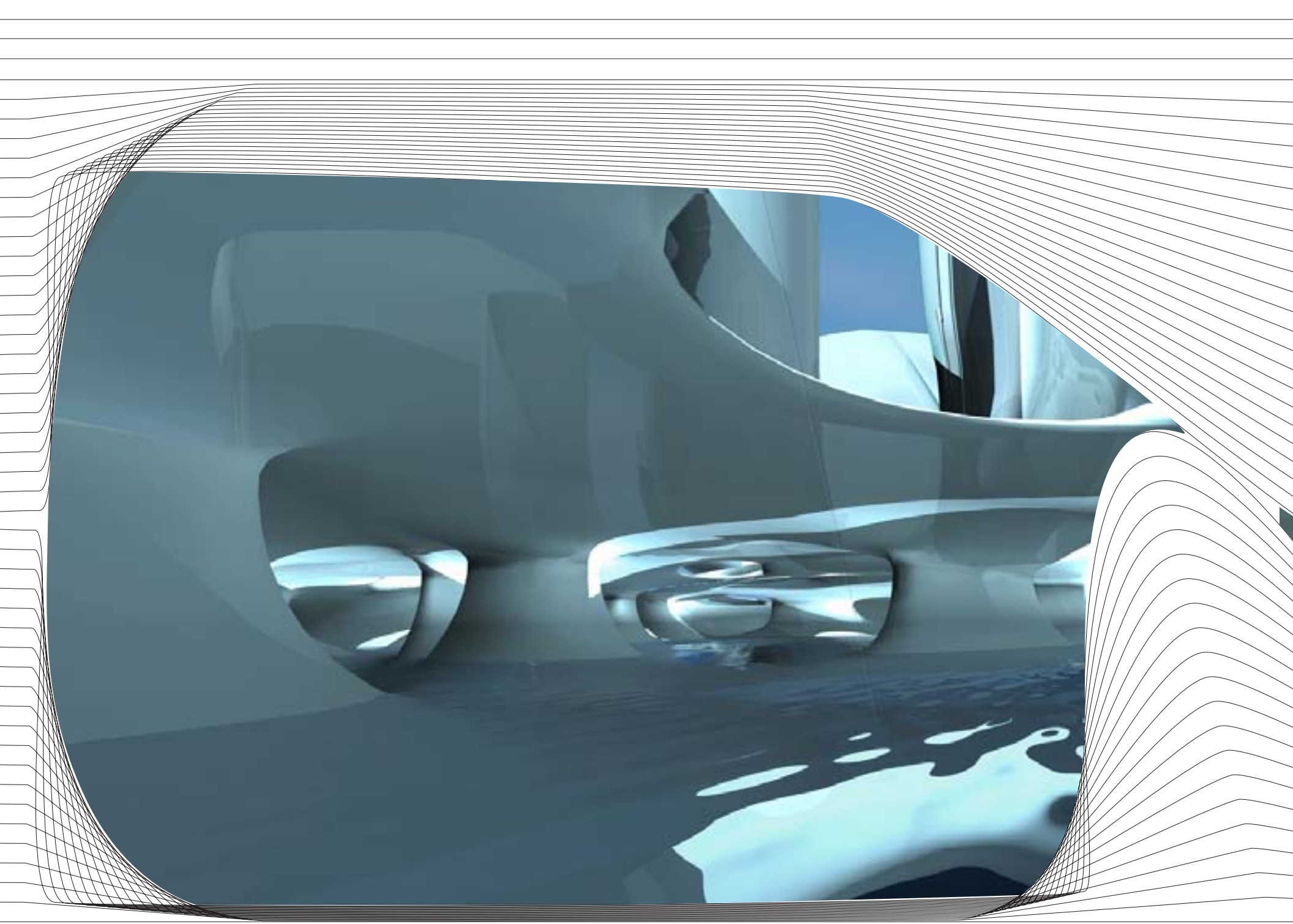
*GALATAPORT URBAN RENEWAL\_ Istanbul\_ views*



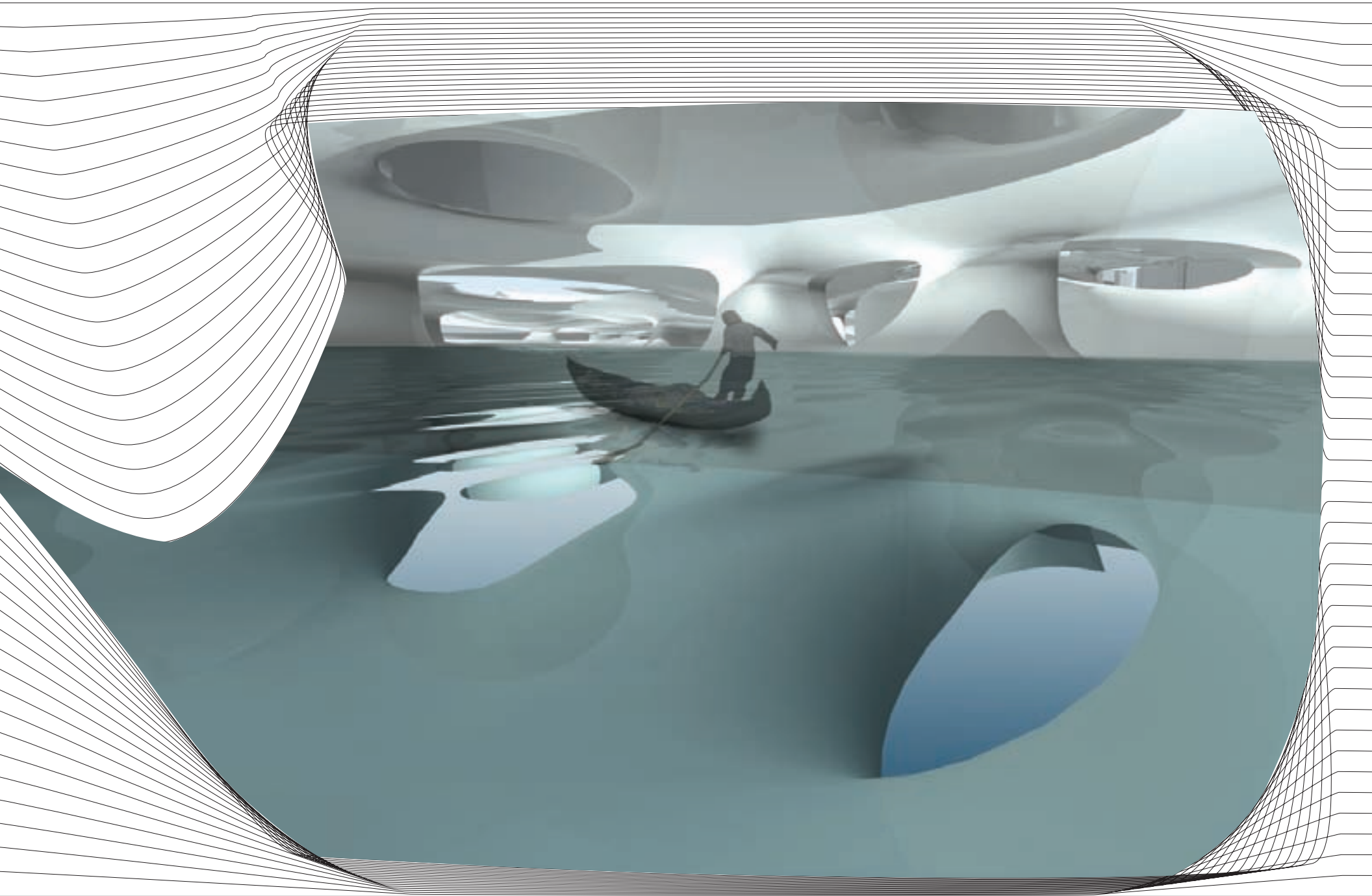


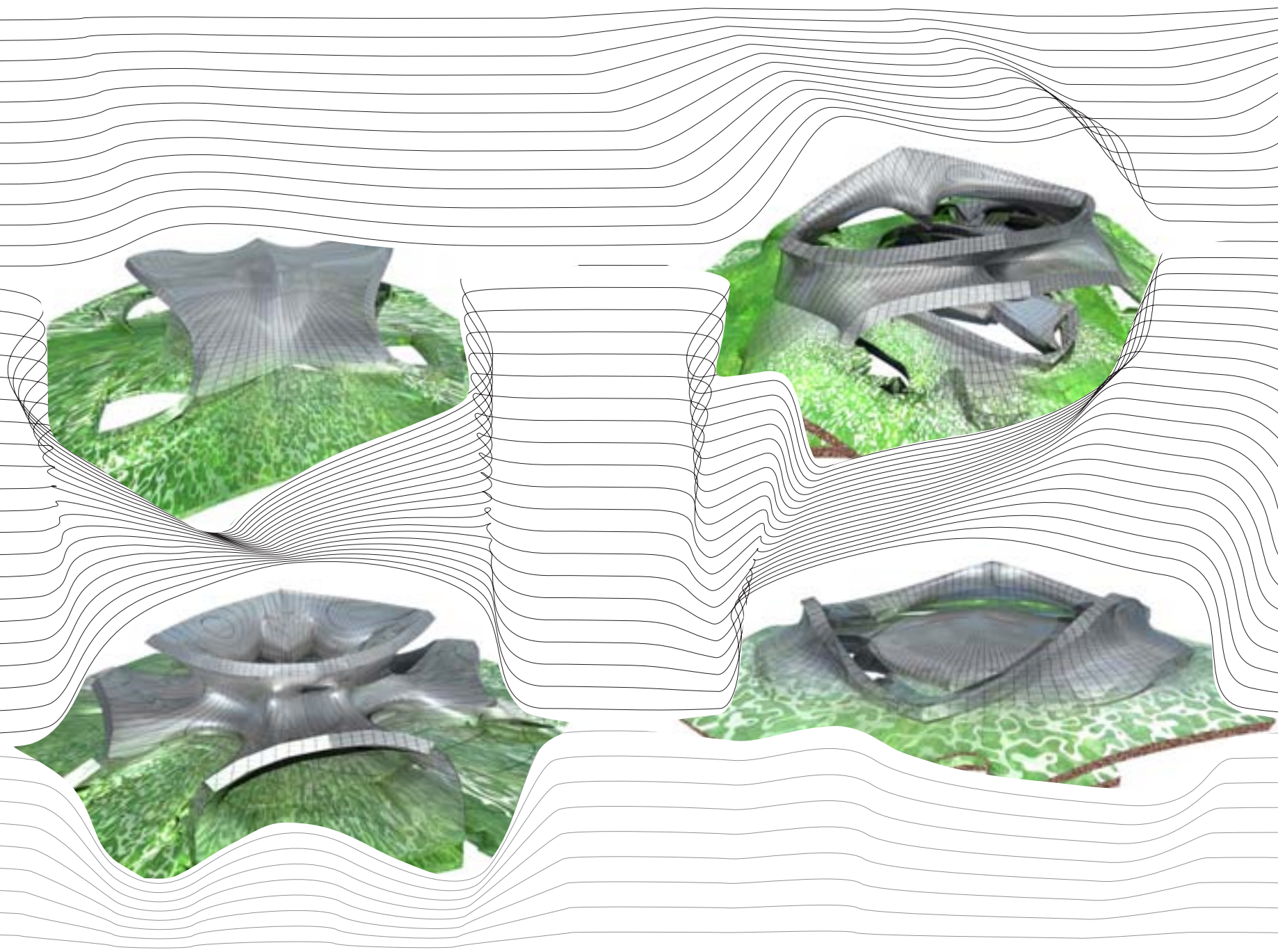
*GALATAPORT URBAN RENEWAL\_ Istanbul\_ views*

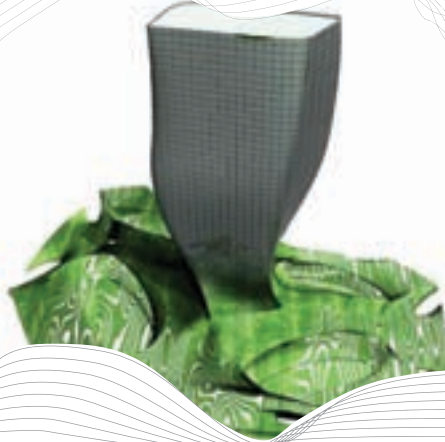
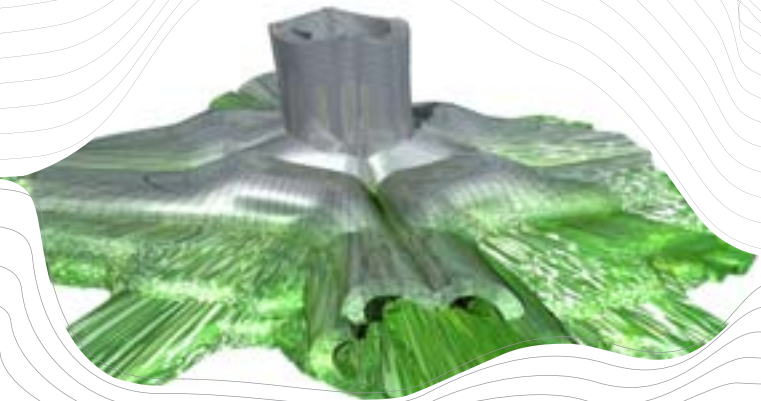
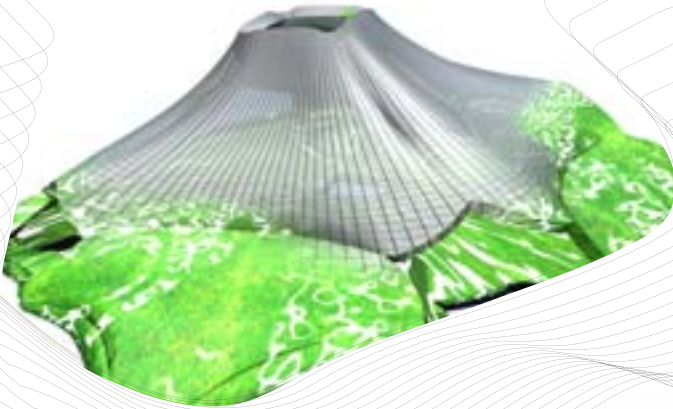
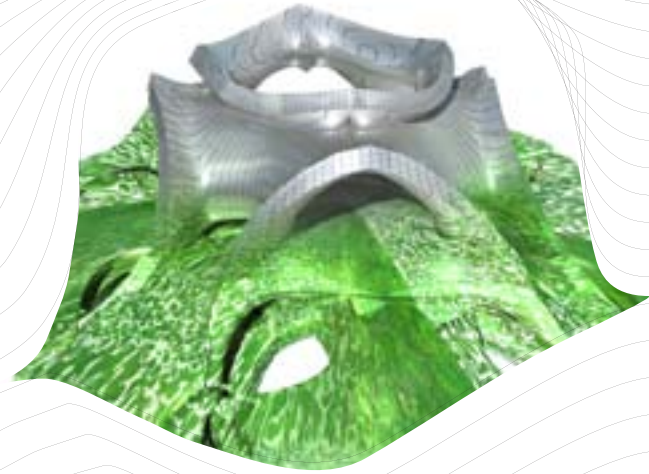
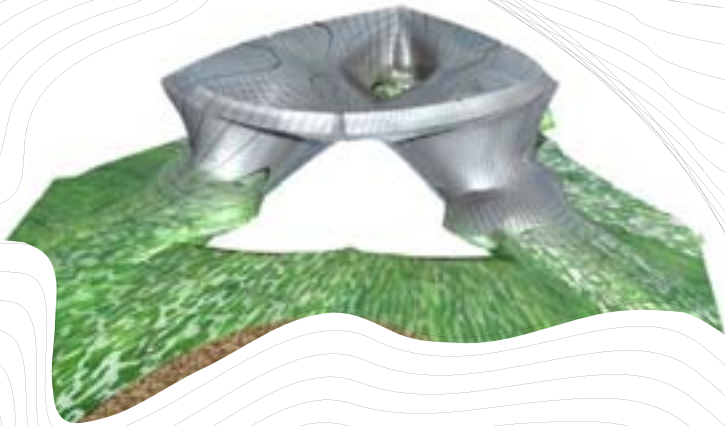




*GALATAPORT URBAN RENEWAL\_ Istanbul\_ views of cistern (right) and aquafarm (left)*









***MINSUR TOWER***

***Mixed-use Highrise***



**Description:**

The project is a mixed-use high-rise building with retail spaces and landscaping in the base and office/residential units above. The tower's extraordinary features are a 3-dimensional spatial relationship between its base and the ground, as well as a smart exterior skin. Both features adapt to a specific context. While the building's base produces seamless transitions to the surrounding urban surface, the skin changes to respond with economy and elegance to building geometry, structure and orientation.

**Conception:**

The tower is conceived with a unique identity that is designed to stand out in the skyline of the city. Unlike previous generations of unique tower designs, this one is capable of adaptation to specific conditions of both site and program which affect its final form. This concept provides an opportunity for repeated applications of the tower in different locations. Such a roll-out strategy of similar but different versions is unprecedented in that it combines a potential for branding with sensitiveness to local context.

**Construction:**

The tower has a 3-dimensional smart skin of variable scales. Its façade elements perform ecological functions such as air-purification due to their large and curved surface area. They change in scale based on their location in relation to the tower's local geometries. Smaller scales and greater densities are found in areas requiring an increase in structural strength.

**Project Type:**  
50-story office building and shopping center

**Location:**

Middle East

**Total Area:**

250,000 m<sup>2</sup>

**Cost:**

withheld

**Key Staff Members on Project:**

**Design Principal:**

Sulan Kolatan

**Design Principal:**

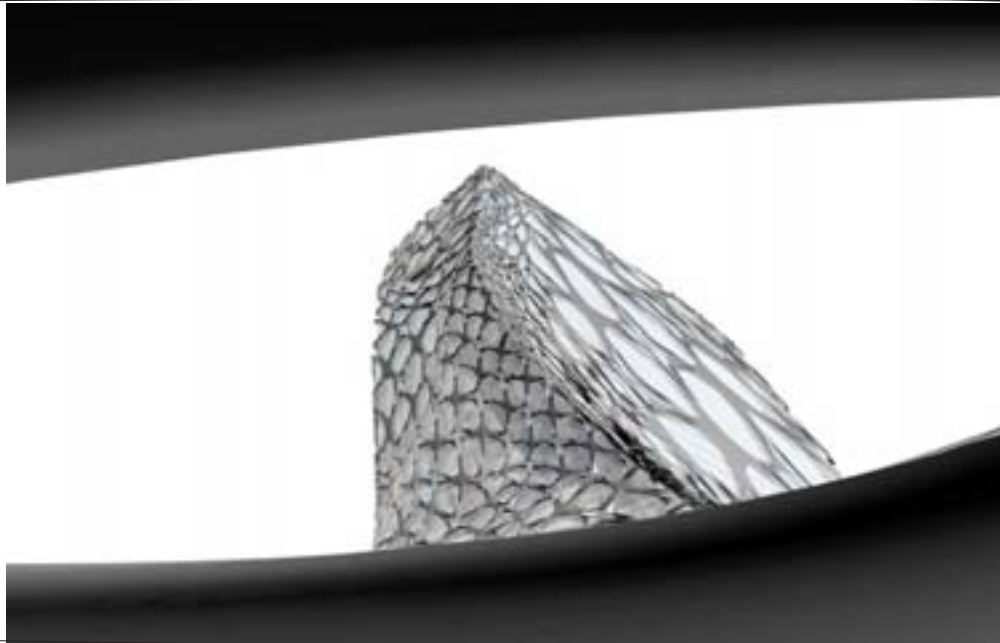
William Mac Donald

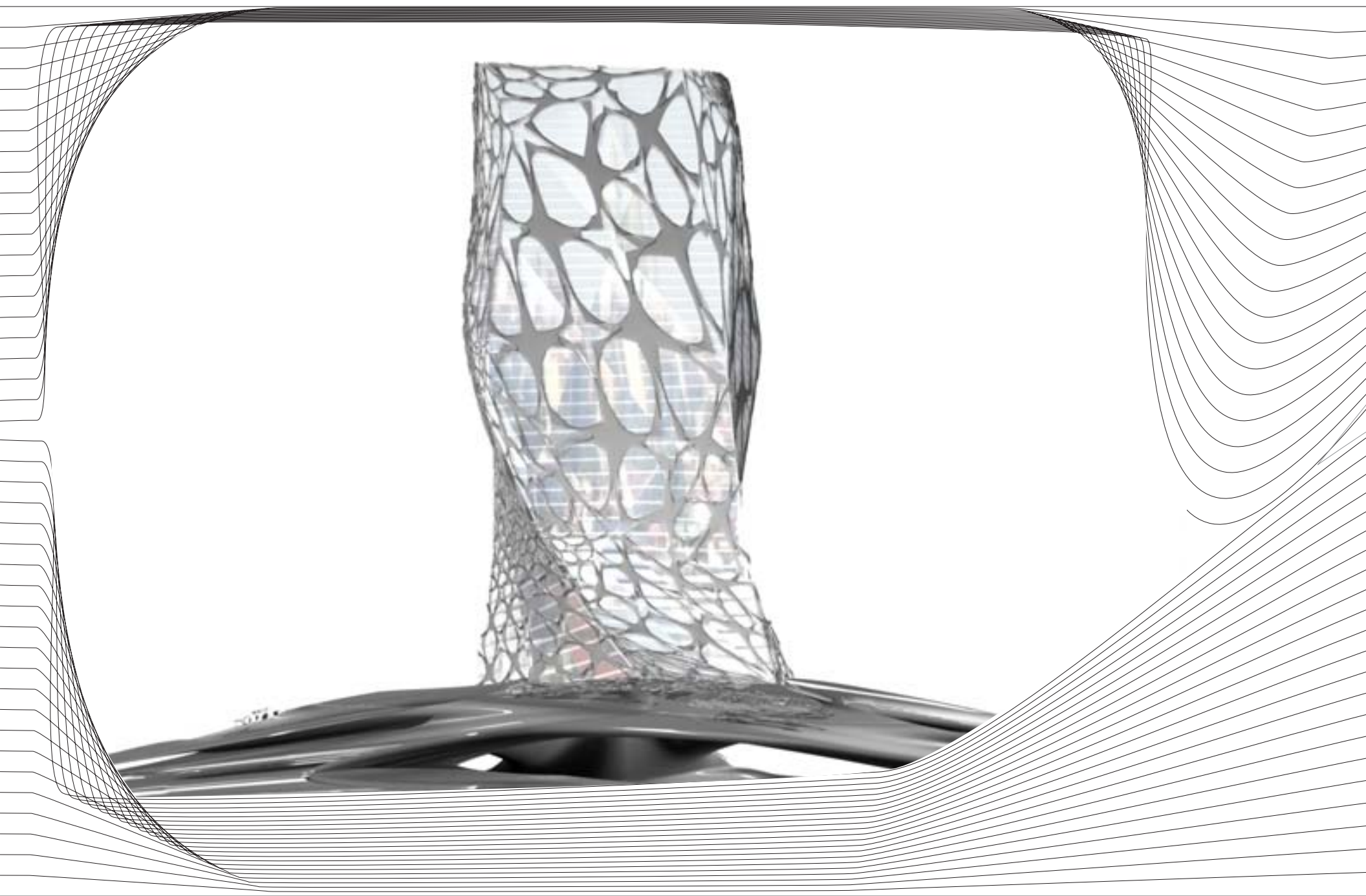
**Senior Designer:**

Robert Cervellione

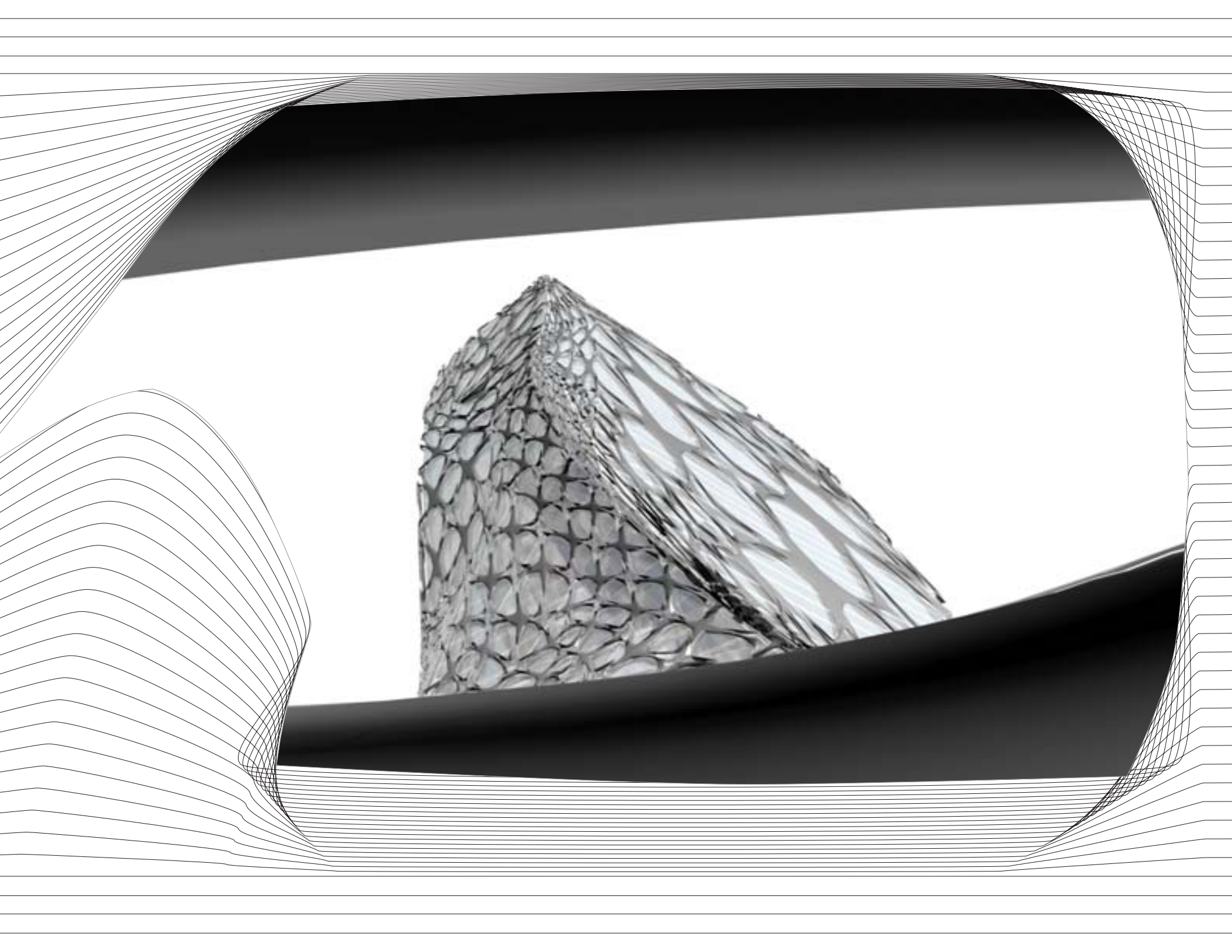
**Client/Sponsor:**

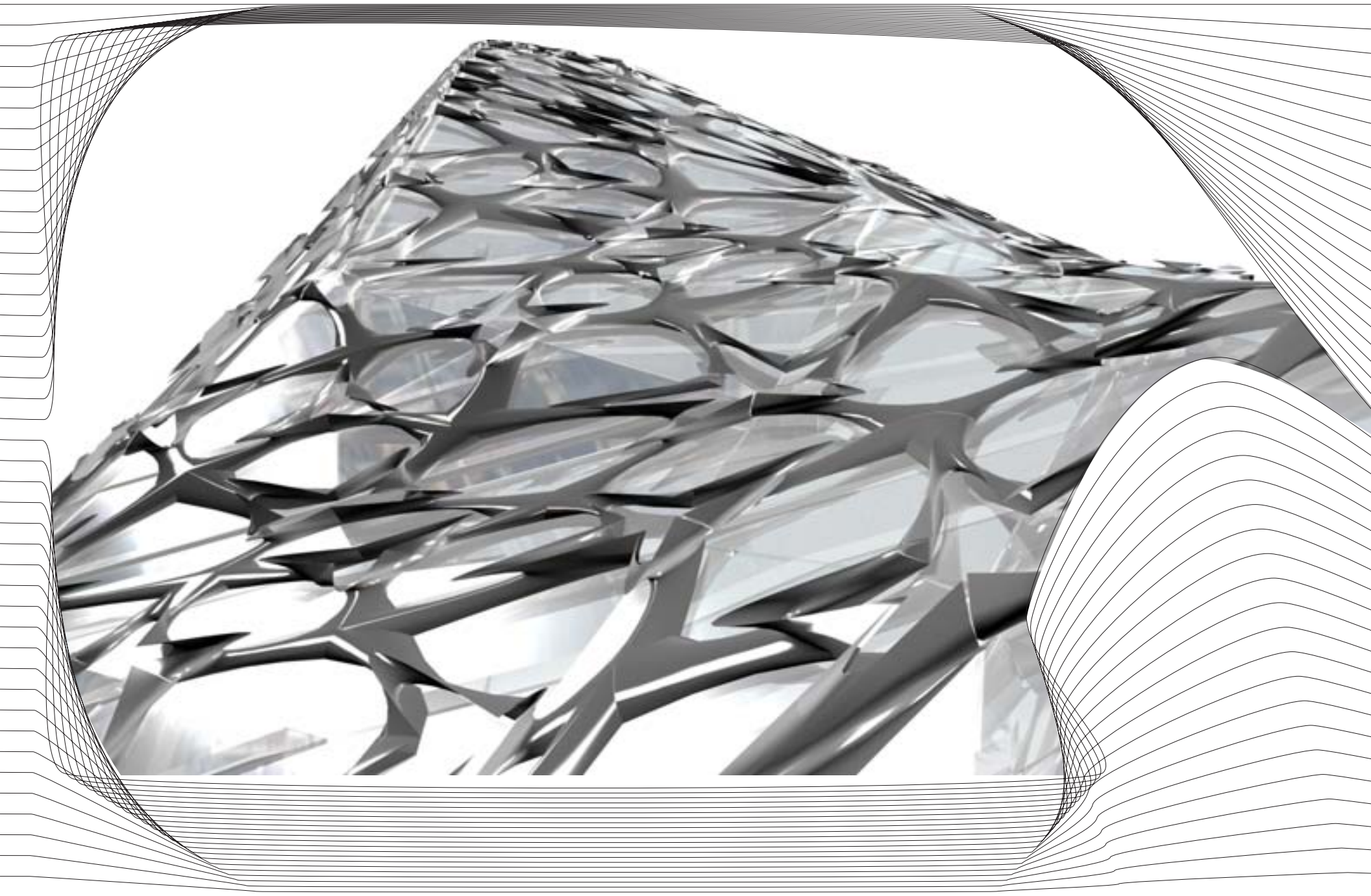
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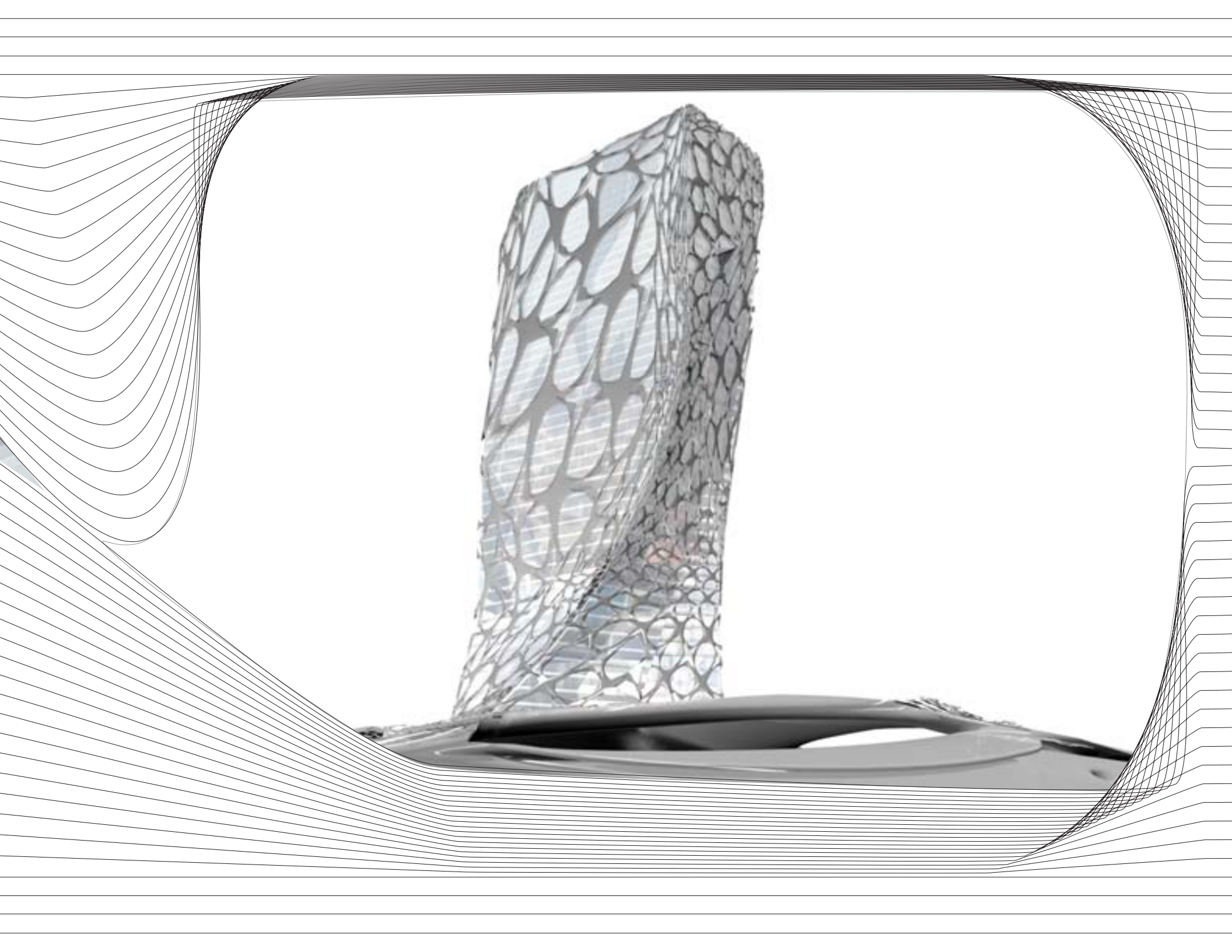


*MINSUR TOWER mixed-use skyscraper and shopping mall Istanbul exterior views*





*MINSUR TOWER\_mixed-use skyscraper and shopping mall\_Istanbul\_exterior views*



A decorative border composed of multiple thin, overlapping wavy lines that frame the central text. The lines are more densely packed at the corners and along the sides, creating a sense of depth and movement.

***CHINA CLOUD CLUSTER***

***Office Highrise Group***



**Description:**

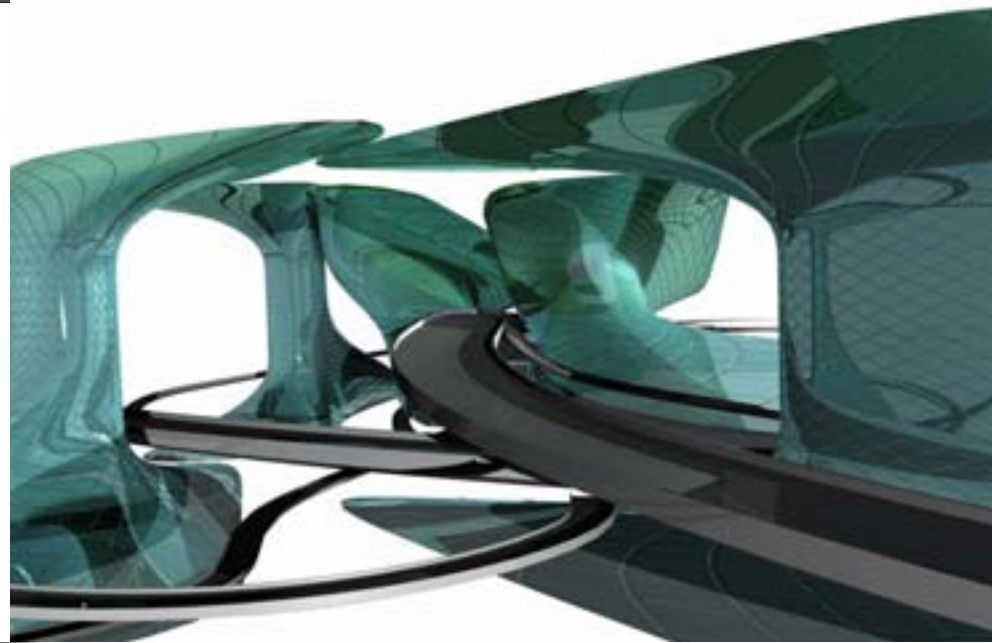
The CCC, unlike any other building complex, affords instant access, linked as it is, to both fast and slow road networks --with its expansive roof allowing for helicopter landings. Its abundant roof garden is a smart urban park that filters the air whilst being elevated above the smog of the city.

**Conception:**

The CCC project demonstrates an alternative model to the side-by-side proliferation of large-scale buildings and transportation infrastructures which lacks the presence of productive urban spaces. In the CCC, the connection between infrastructure and building, is constitutional, not a mere link. Through an emergent-adaptive logic families of towers cluster with each other and settle into situational associations with interchange nodes. Together the inter-cluster and the cluster-to-node relations form a new system that outperforms the sum of its parts.

**Construction:**

The skins of the individual office towers play an instrumental role in this merging. These are 3-dimensional surfaces that are of more than one category. At the bottom, they graft onto the urban surface, performing to varying degrees as skylight to commercial and public usage, as parking, or as park. At the top, they grow toward each other to form a continuous large-scale roof garden. The core/atrium in each tower allows the city to percolate vertically through the tower and up onto the roof.



**Project Type:**

*Mixed-use Highrise and Highway Infrastructure*

**Location:**

*Beijing, China*

**Project Size in Square Meters:**

*1, 200,000 m<sup>2</sup>*

**Cost:**

*withheld*

**Key Staff Members on Project:**

*Design Principal:*

*Sulan Kolatan*

*Design Principal:*

*William Mac Donald*

*Senior Designer:*

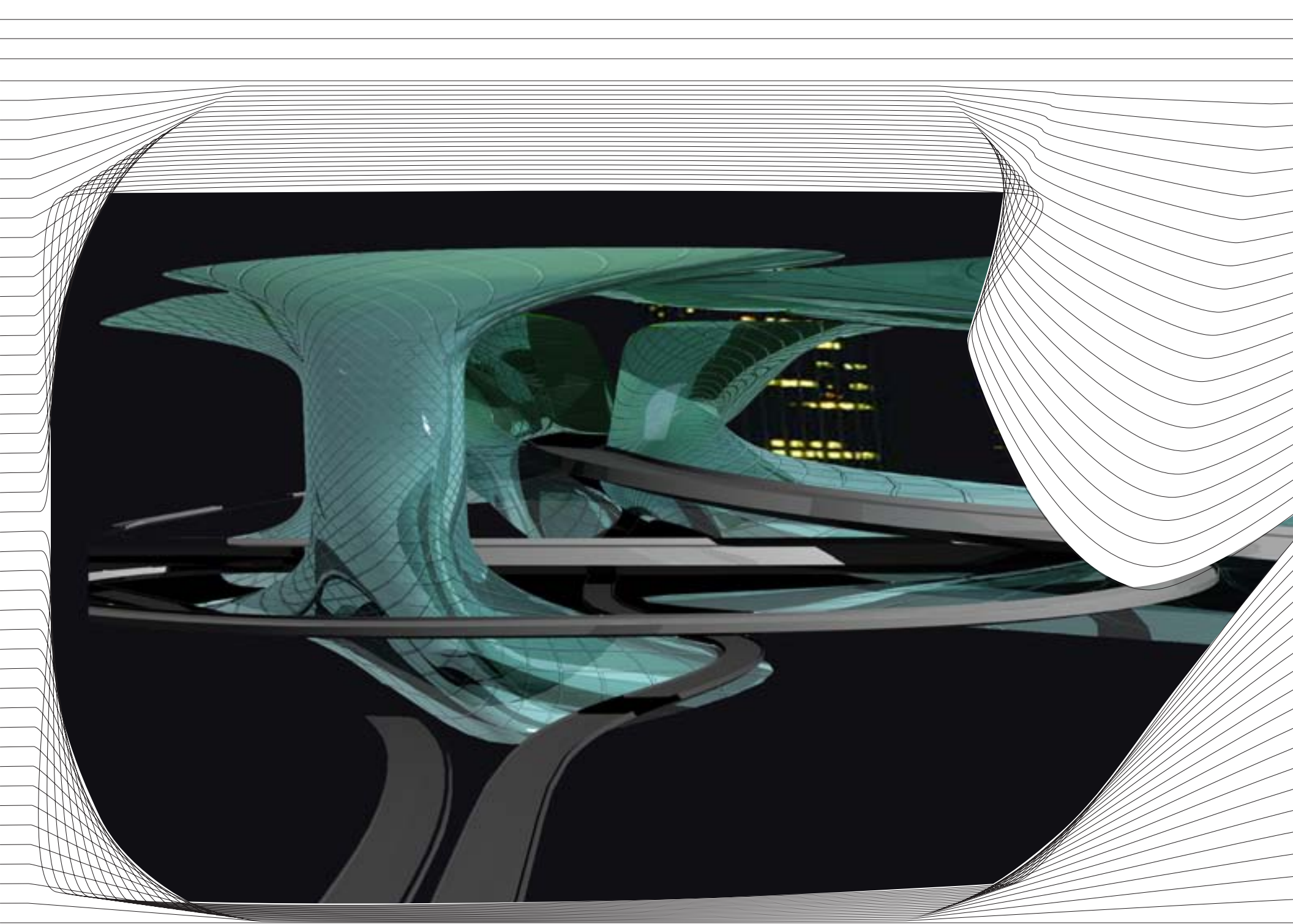
*Phillis Wong*

**Project Manager:**

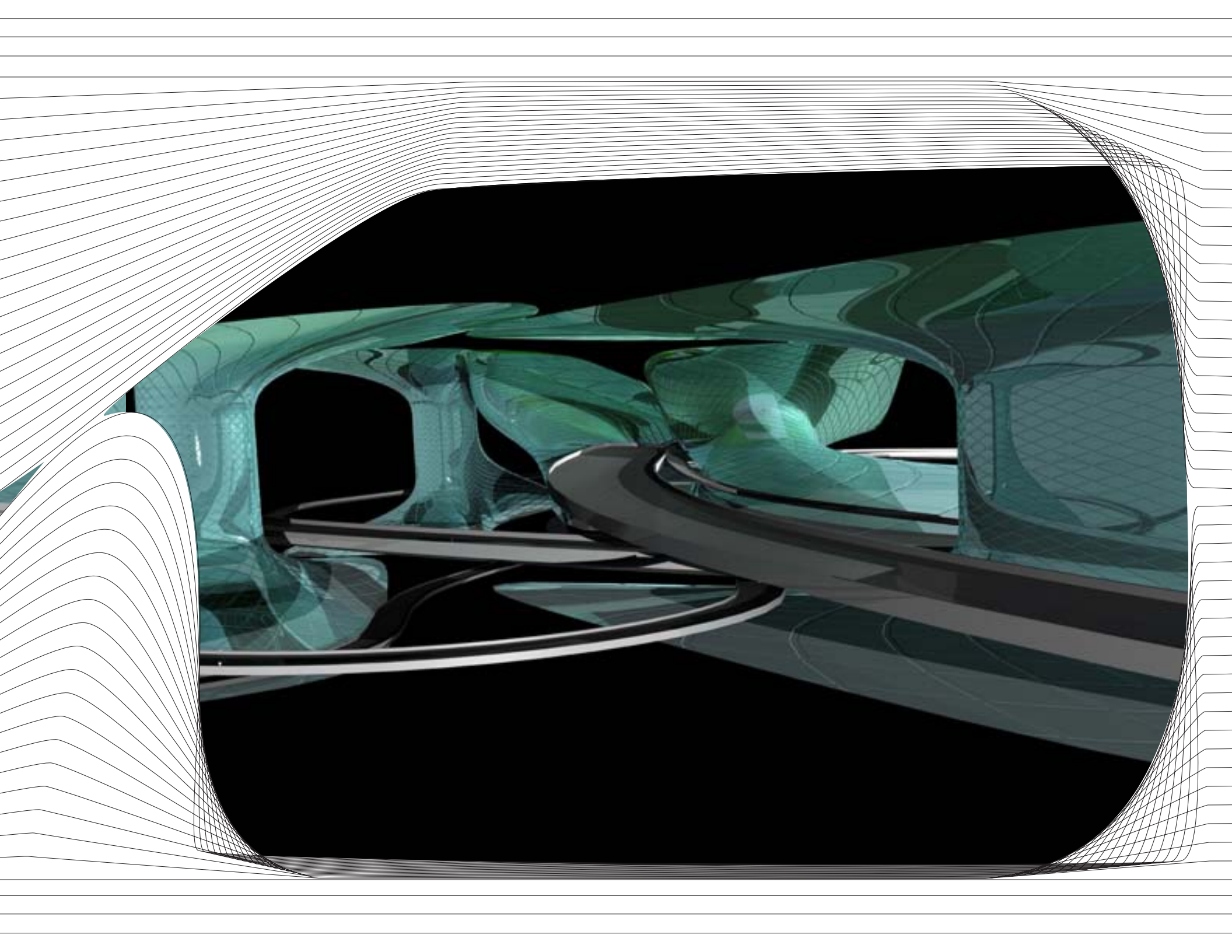
*Michael Huang*

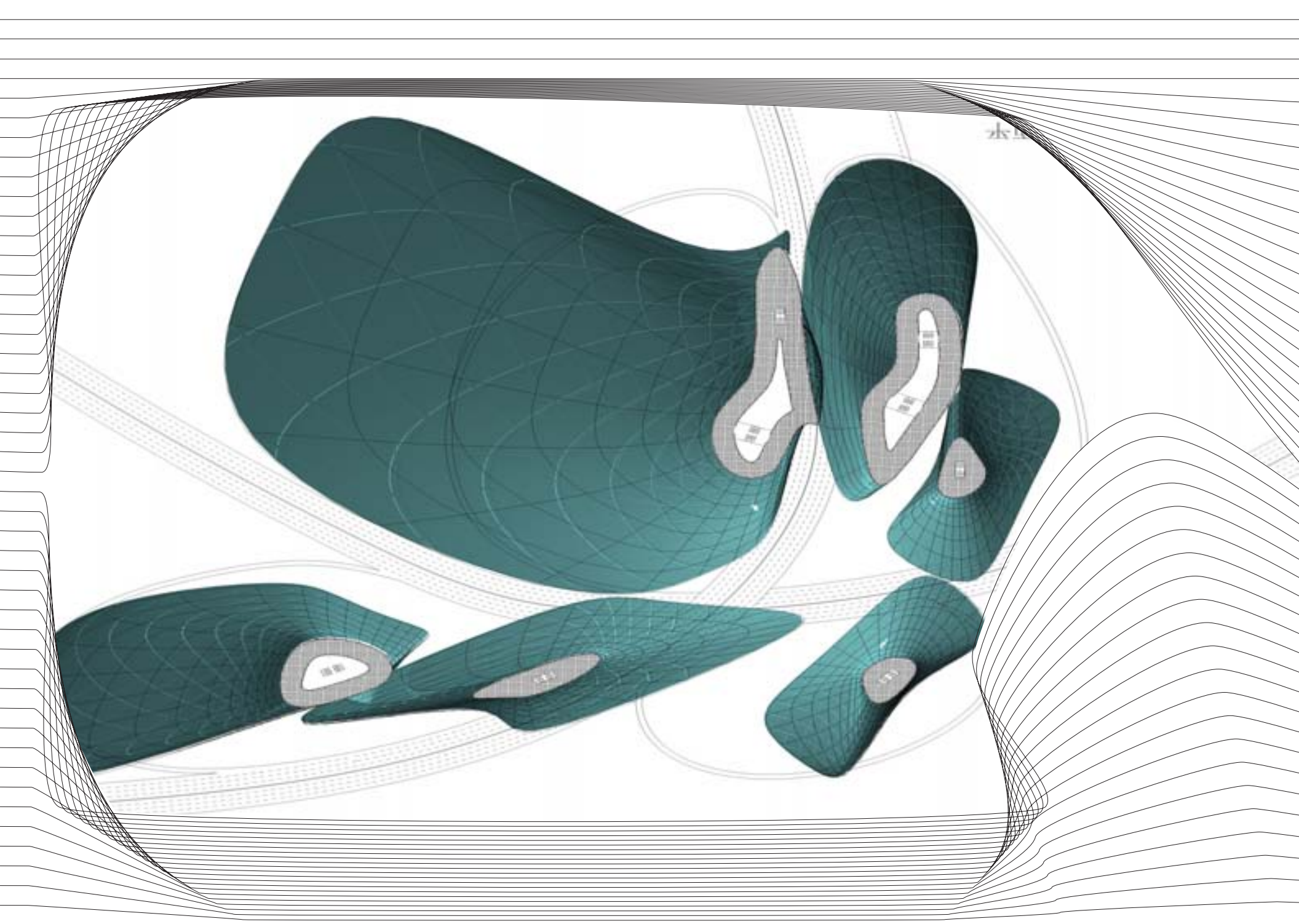
**Client:**

*withheld*

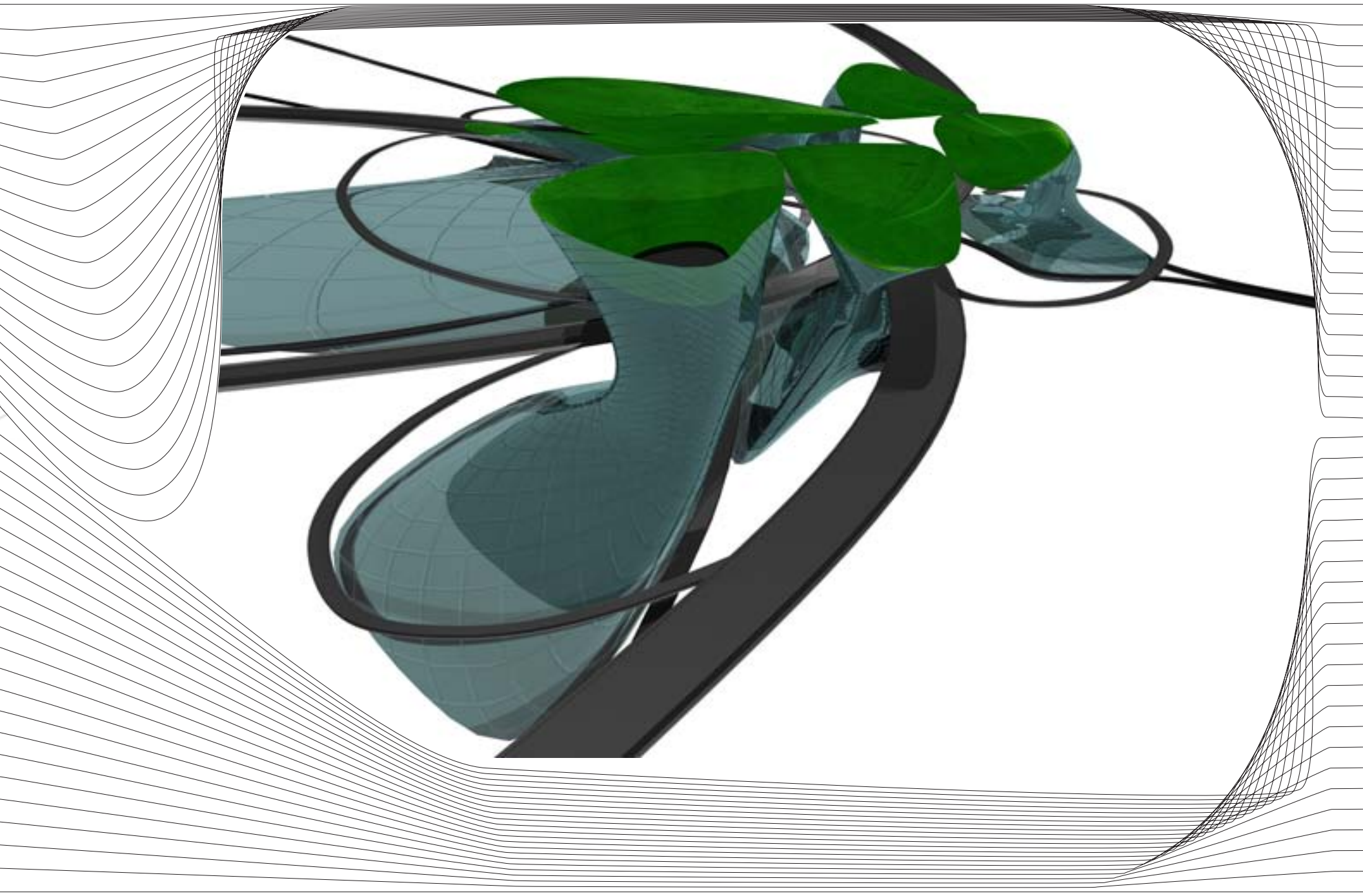


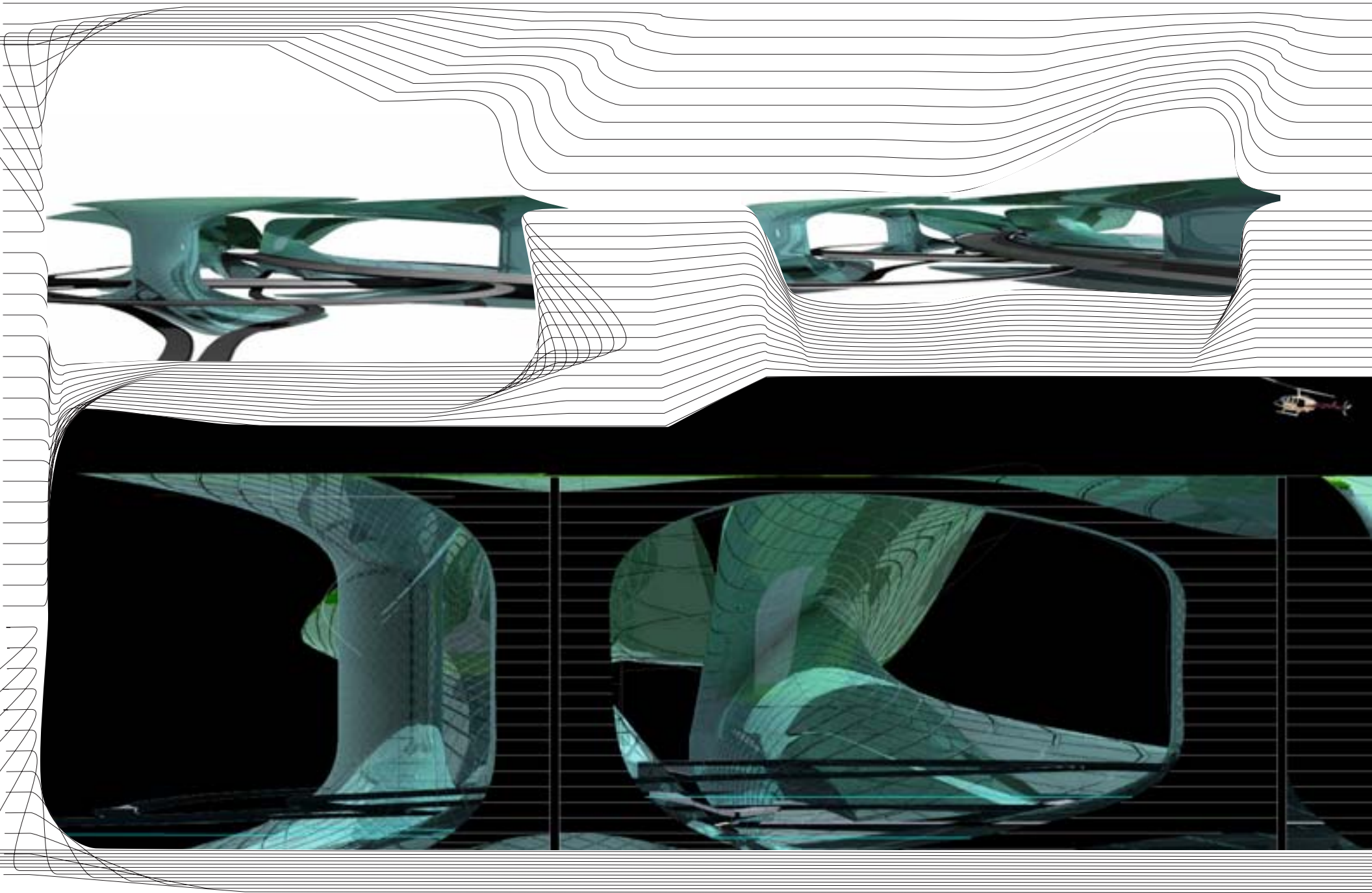
*CHINA CLOUD CLUSTER\_mixed-use building complex at high-speed intersection\_Beijing*



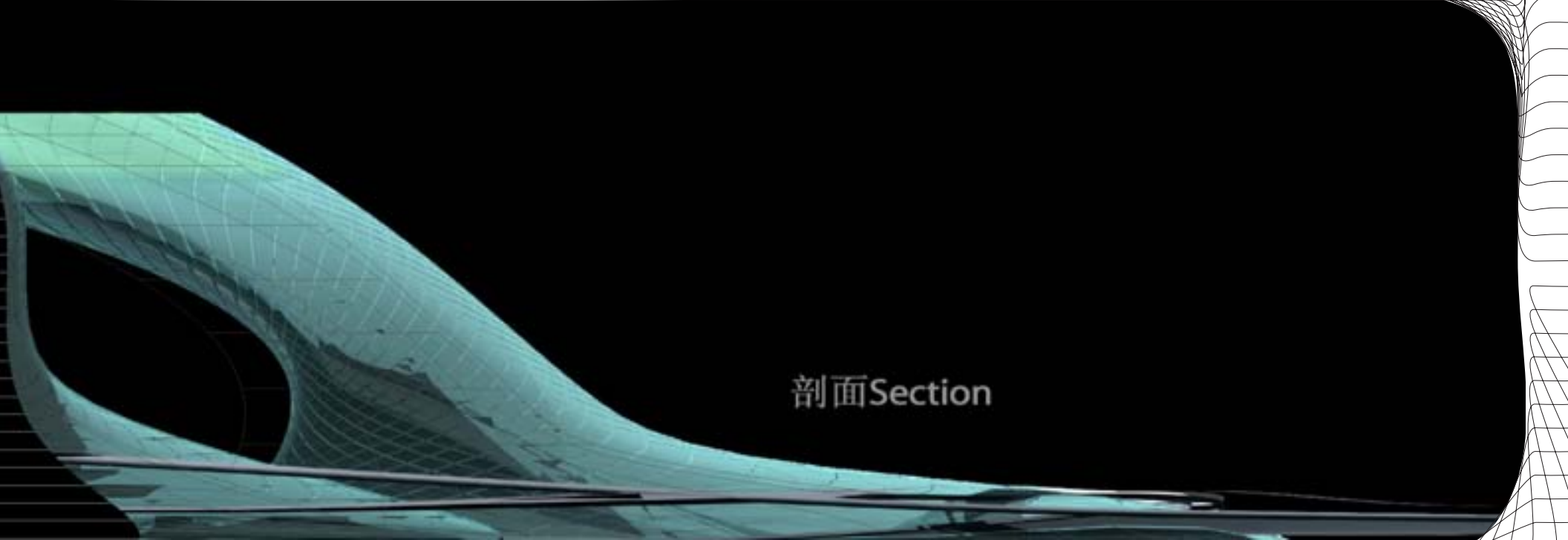
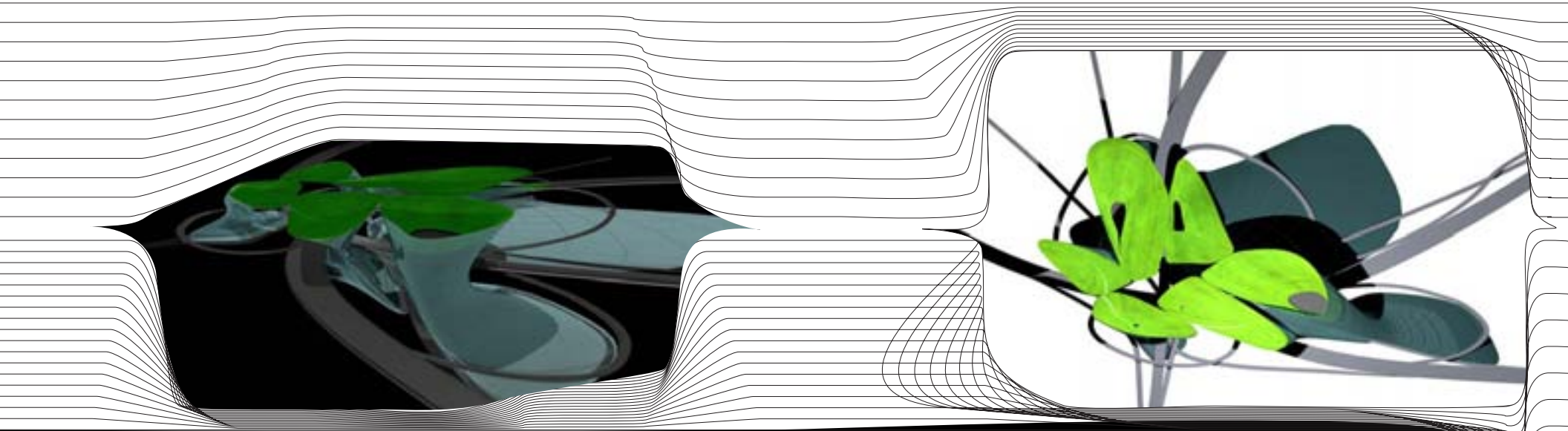


*CHINA CLOUD CLUSTER\_mixed-use building complex at highspeed intersection\_Beijing\_plans and views*





*CHINA CLOUD CLUSTER\_mixed-use building complex at highspeed intersection\_Beijing\_section and views*

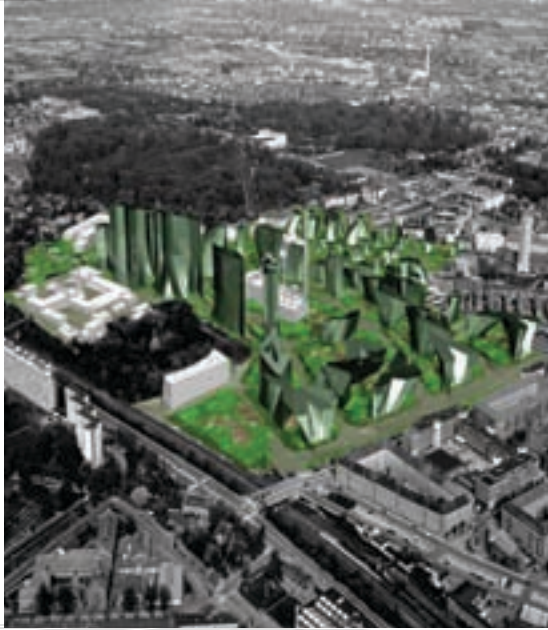


剖面Section



***CARLSBERG***

***Urban Design Competition***



**Description:**

A google earth aerial view of the site shows that the Carlsberg site is constituted by multiple patches. Three of these patches are continuations into the site from neighboring patches. Our project links the site into the neighboring sites by adopting their urban form and scale to adapt and transform it into a new identity.

**Conception:**

A favorite tool of urban ecology is satellite imaging which maps surfaces with regard to terrain, heat, vegetation and other qualities but has no particular use for urban type. Similarly, ecological pathologies are diagnosed based on the continuum of urban surface. One of the operative devices ecologists use is the "patch". This is a continuous urban surface defined by some degree of homogeneity that makes it discrete from its neighboring patches. It can be said then that an ecological understanding of the city is topological in nature. This is where our approach comes into play. The minimal surface and its form/performance interplay are evaluated against the backdrop of an urban eco-logic.

**Program:**

eCA is a project focused on going beyond the current "green" urban design standard through strategic linking of advanced design and geometry, material and structural engineering, digital fabrication technologies and emerging expertise in ecology and biomedicine. At the same time, eCA is not intended as an enclave of expert cultures removed from everyday life, but rather, as a place where the ordinary and extraordinary meet and benefit from each other. eCA will join the global network of significant places to live, work and visit.

**Project Type:**  
Urban Redevelopment of former Brewery

**Location:**  
Copenhagen, Denmark

**Total Area:**  
100,000 m<sup>2</sup>

**Key Staff Members on Project:**

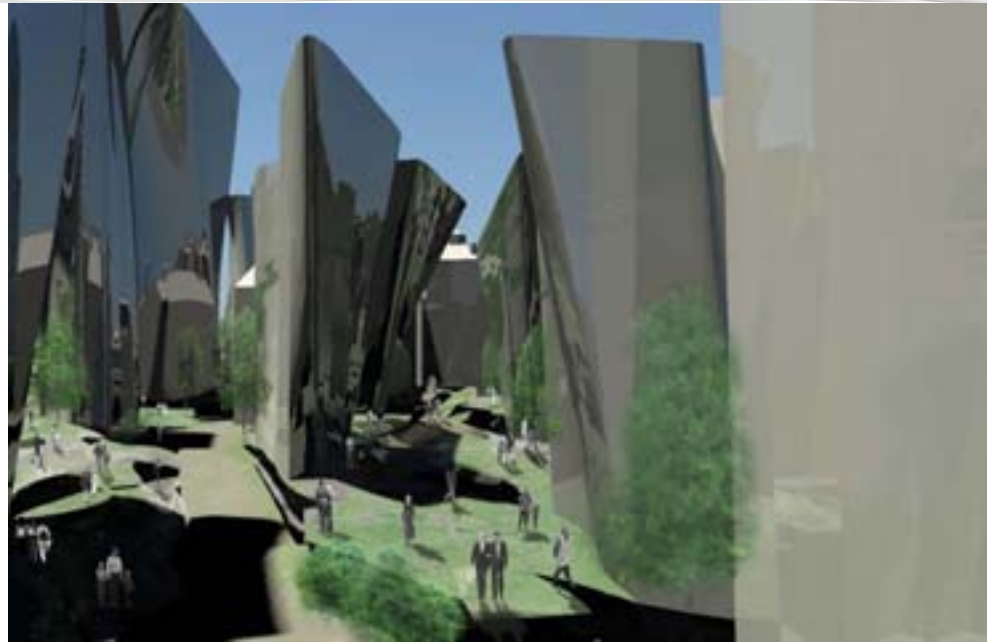
**Design Principal:**  
Sulan Kolatan

**Design Principal:**  
William Mac Donald

**Senior Designer:**  
Robert Cervellione

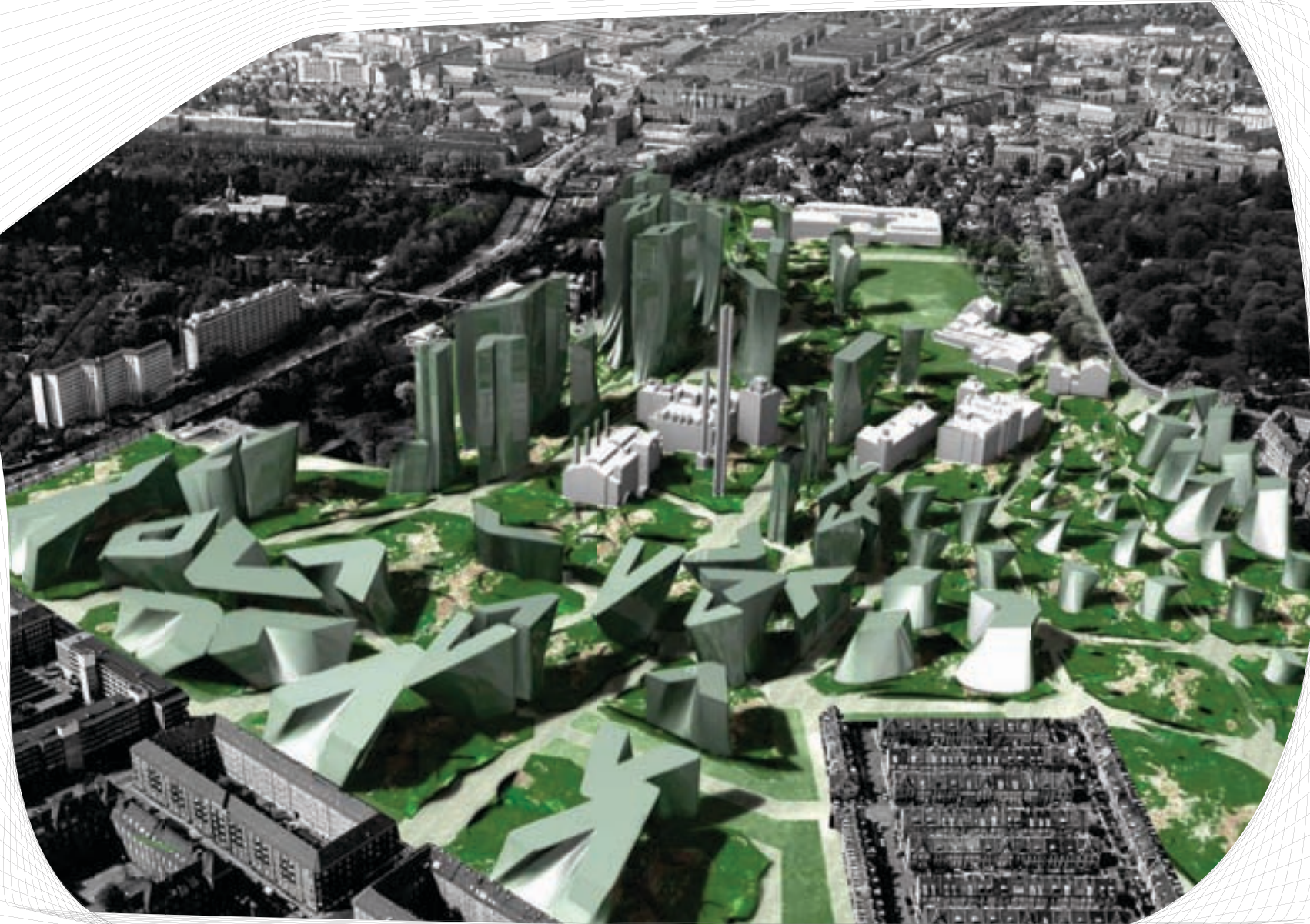
**Client/Sponsor:**  
Carlsberg

**Client Representative:**





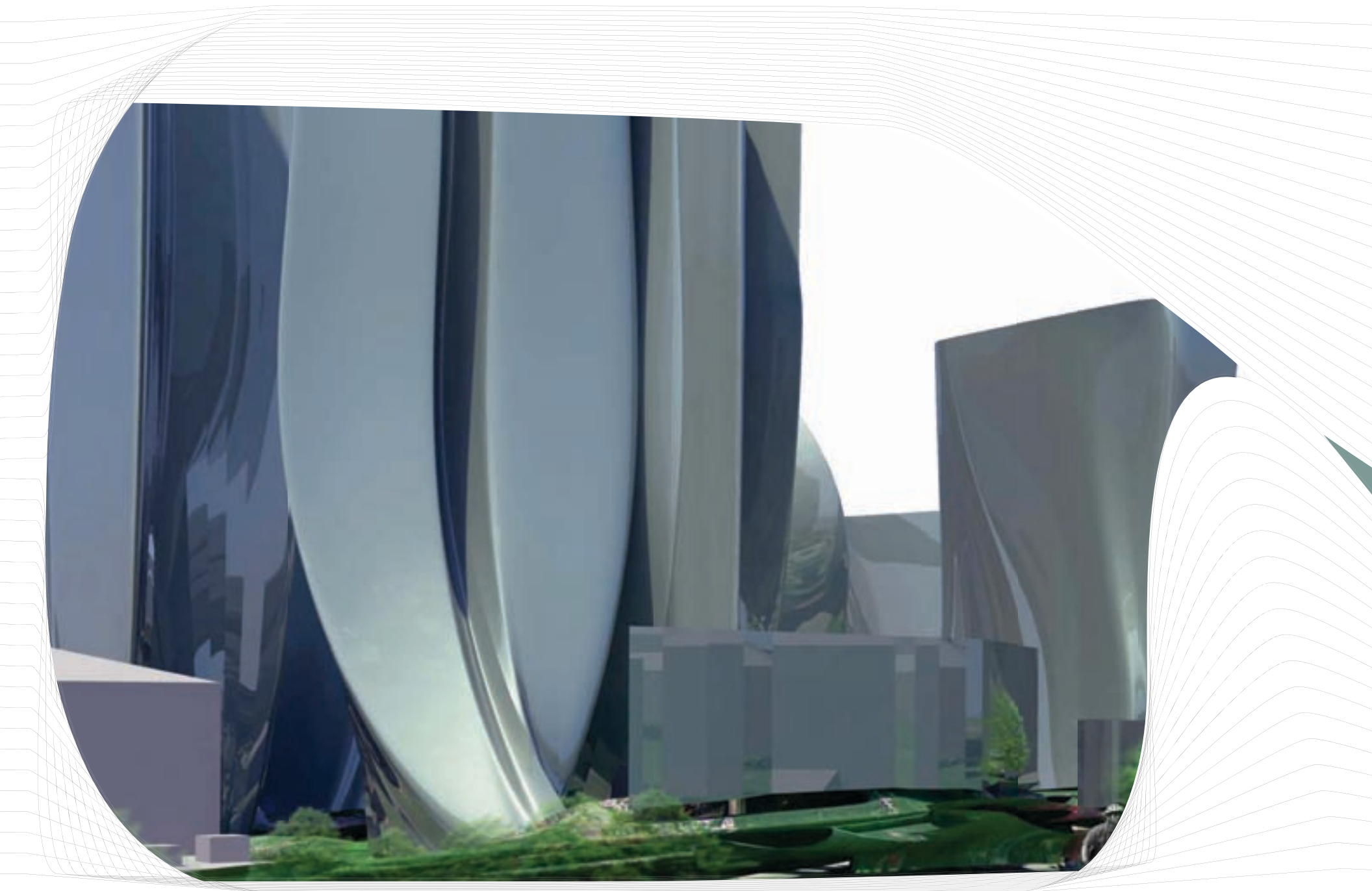
*CARLSBERG COMPETITION\_Urban Renewal of Brewery Site\_Copenhagen\_aerial views*

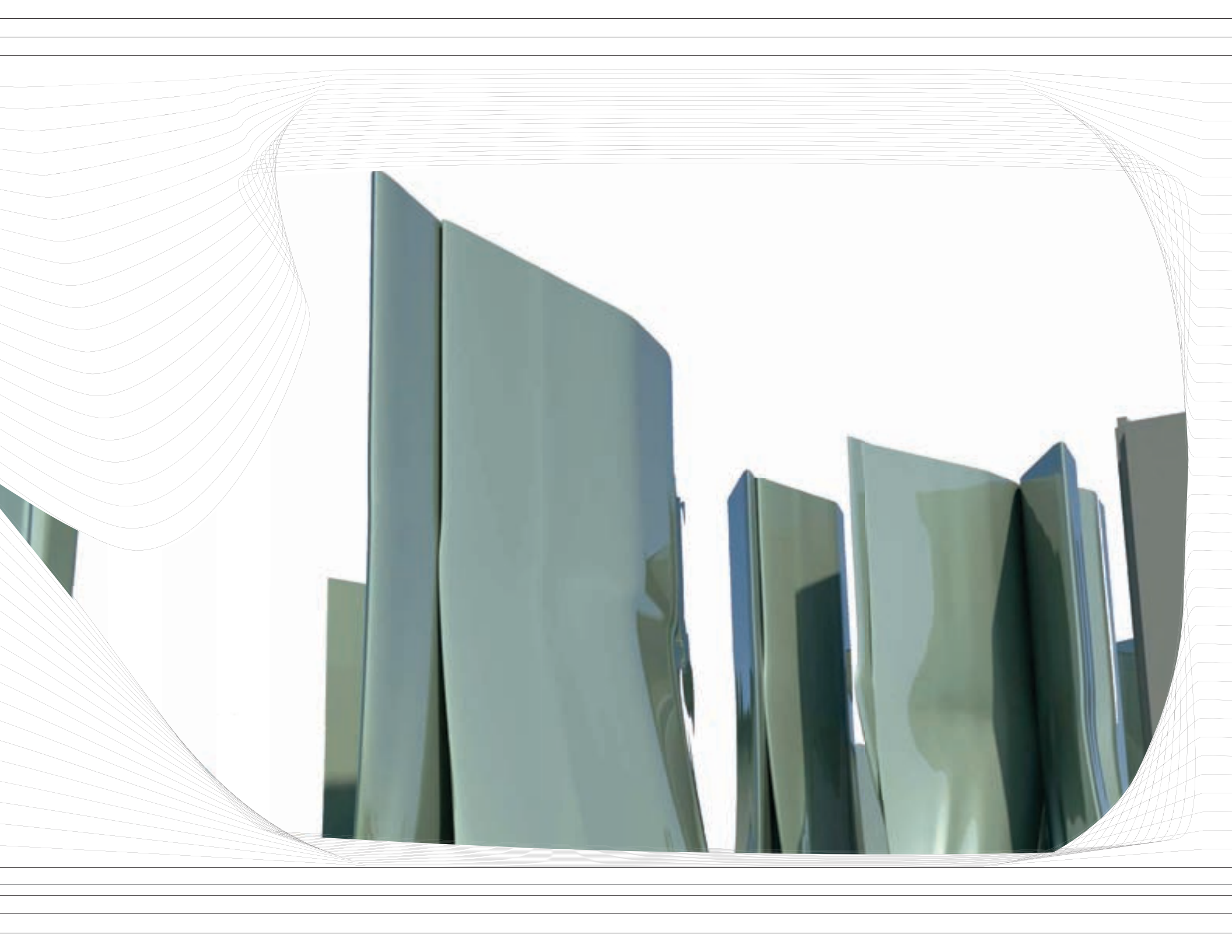




CARLSBERG COMPETITION\_Urban Renewal of Brewery Site\_Copenhagen\_views of ecological parks



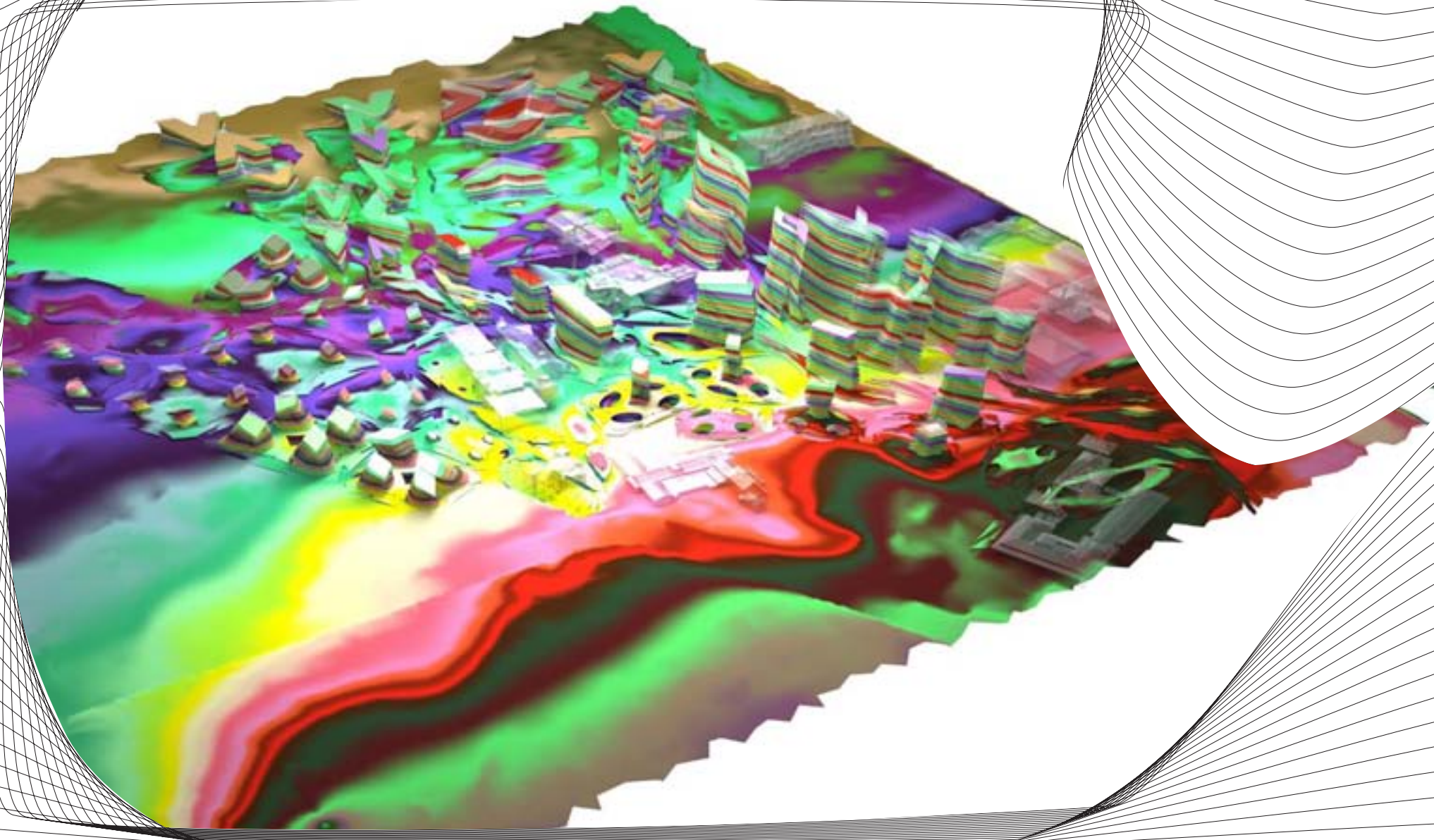




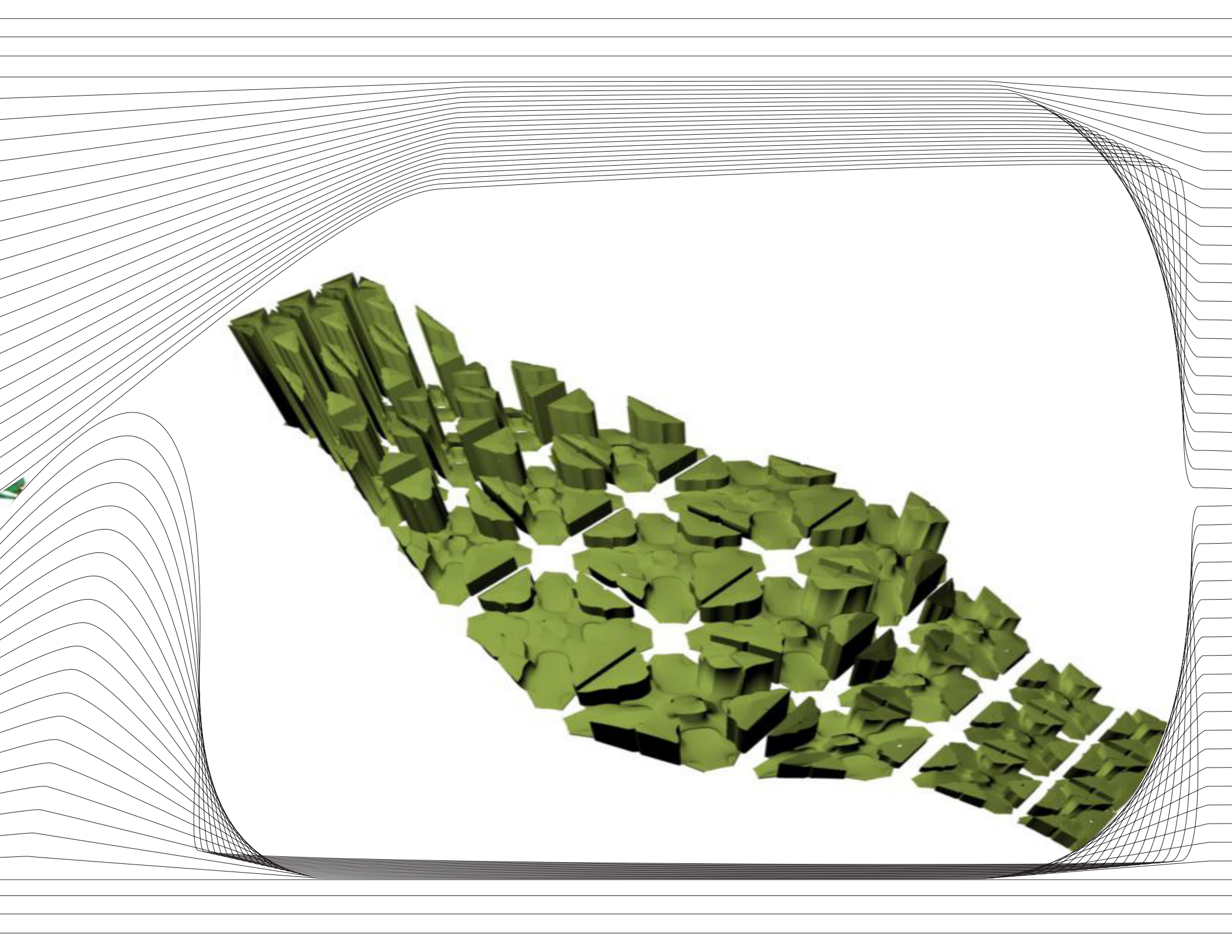


*CARLSBERG COMPETITION\_Urban Renewal of Brewery Site\_Copenhagen\_views of midrise buildings*





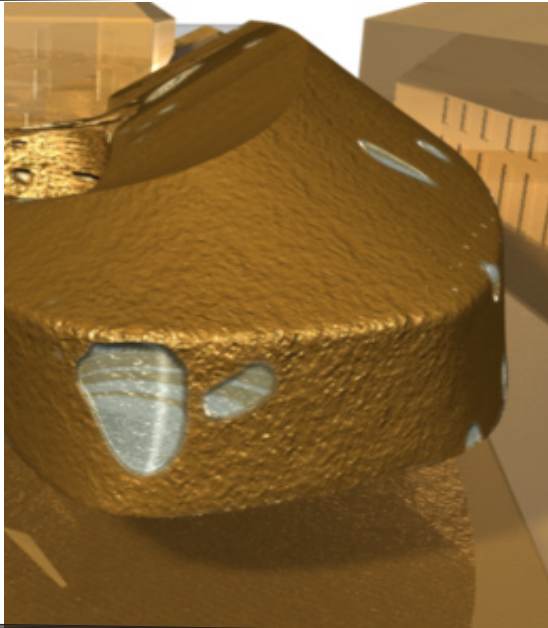
CARLSBERG COMPETITION\_Urban Renewal of Brewery Site\_Copenhagen\_3D density FAR diagrams





***FRAC***

***Museum Competition***



**Description:**

The project is a conversion of pre-existing military barracks into a contemporary art and architecture museum. It is located in the historical part of Orléans and includes an outdoor courtyard. The client's goal was to adaptively re-use and upgrade the existing structures while also adding a new building component in order to create an entry piece and a strong presence facing the city.

**Conception:**

The project explores a new museum paradigm by blending old and new structures through surfaces that graft and transform. A continuously sloping ground connects the museum interior in multiple ways to the exterior courtyard, the sidewalk and the rooftop terrace. At the same time the ramp/landscape together with the exterior surfaces act as a unifying and organizing device for the disparate pre-existing spaces. The interior spaces are organized according to frequencies of change with the monthly exhibit and conference areas located closest to the entrance and the permanent exhibitions farthest.

**Construction:**

The use of advanced shotcrete extends the concept of blending to material and building technique. A new generation of shotcrete, environmentally sound -and containing both structural (composite fiber) and ornamental (metal powder) admixtures- is used for the exterior surfaces of the new structure as well as for "repairs" and "touch-ups" of the old structures. This gold-colored concrete is applied in varying degrees of smoothness, now forming precise peaks and valleys, now splattering across the existing facades. An algorithmic splatter-technique also informs the distribution, size, and density of apertures on the exterior surfaces. The structure consists of a parametrically changing steel frame that adapts to the Klein-Bottle-like geometry of the new addition.



**Project Type:**  
Regional Contemporary Art and Architecture Museum,  
International Competition, Finalist (final 4)

**Location:**  
Orléans, France

**Total Area:**  
100,000 m<sup>2</sup>

**Key Staff Members on Project:**

**Design Principal:**  
Sulan Kolatan

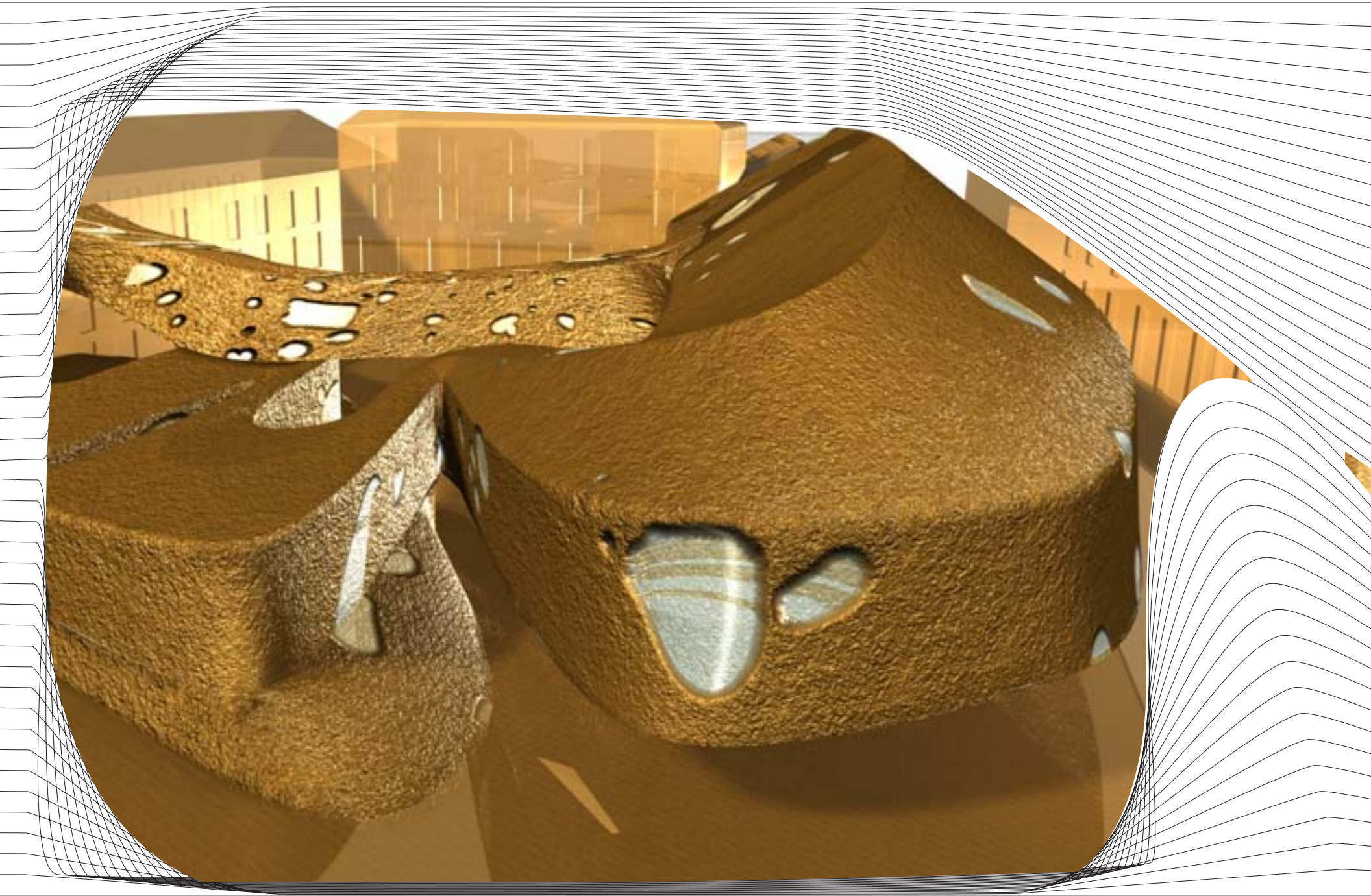
**Design Principal:**  
William Mac Donald

**Senior Designer:**

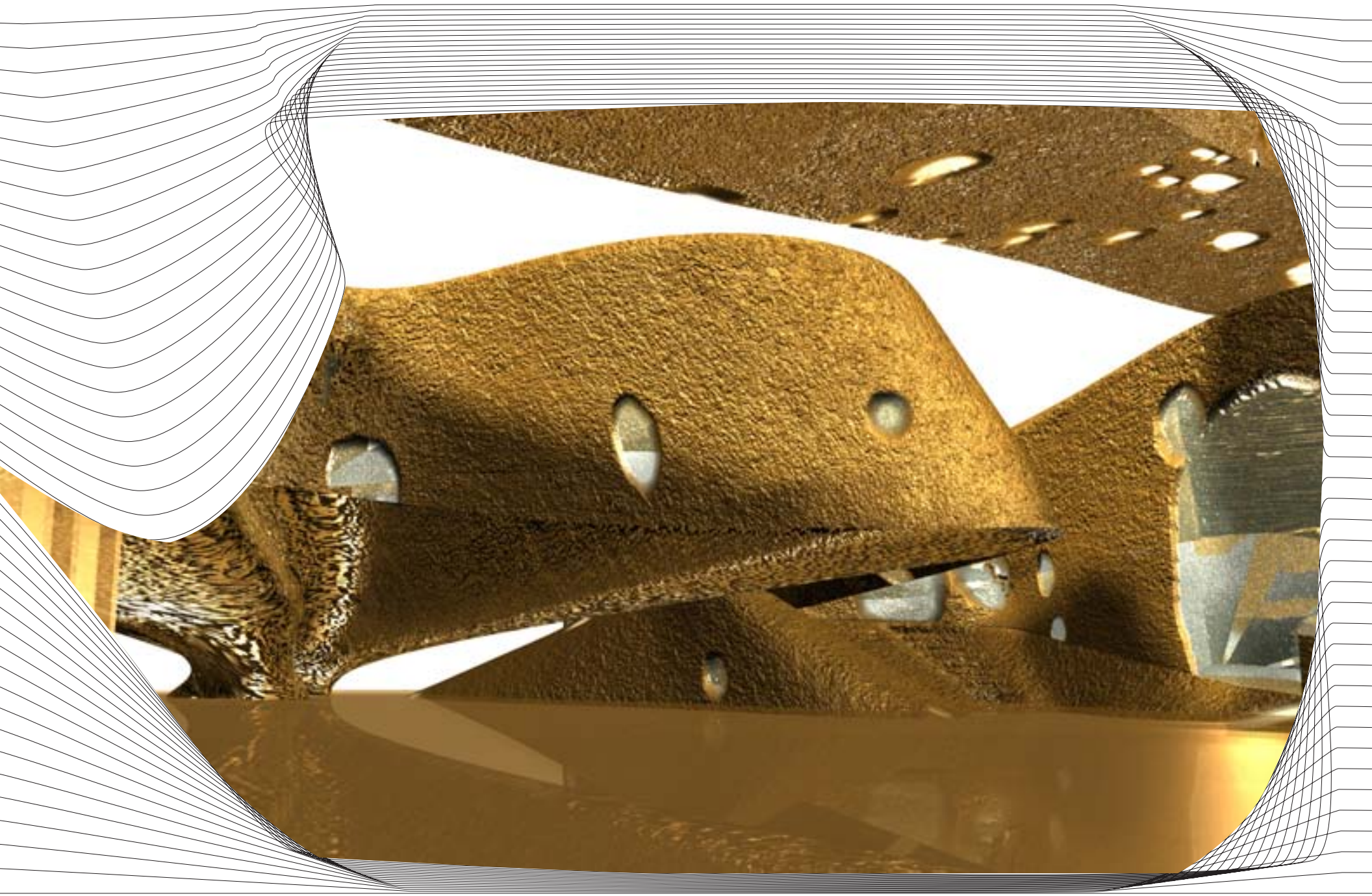
**Client/Sponsor:**  
Garanti Bank/Garanti Galeri

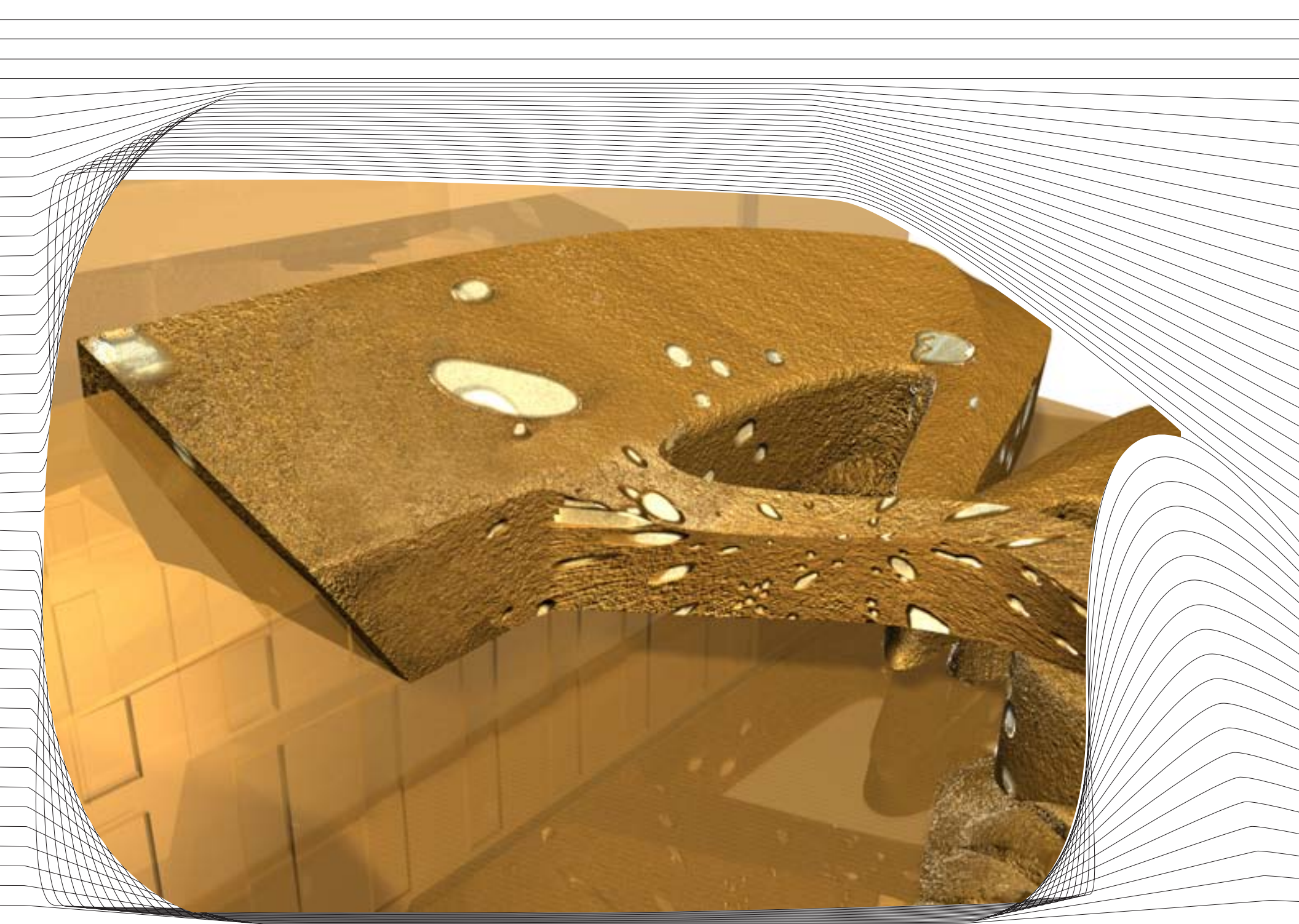
**Client Representative:**

**Consultant:**  
Arup AGU, London

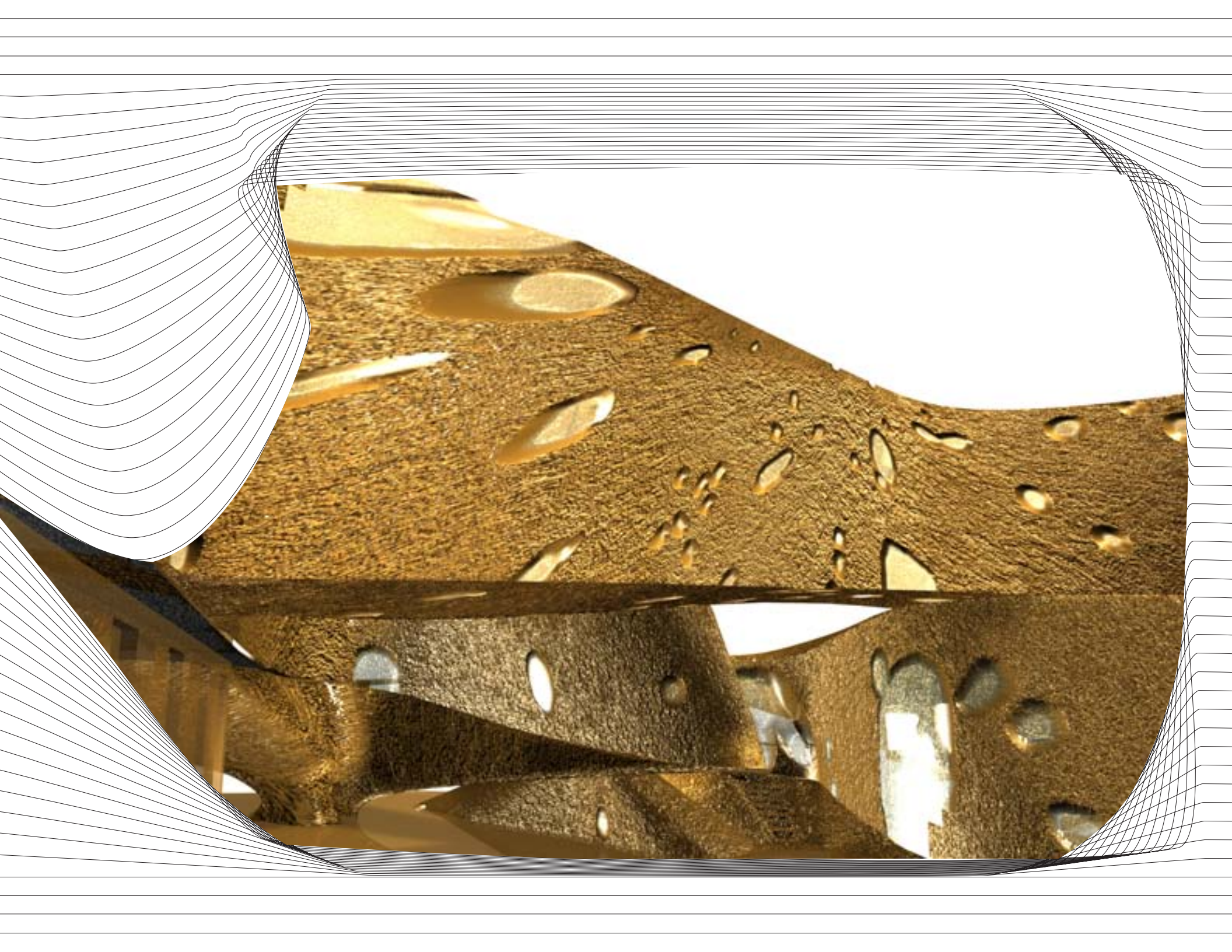


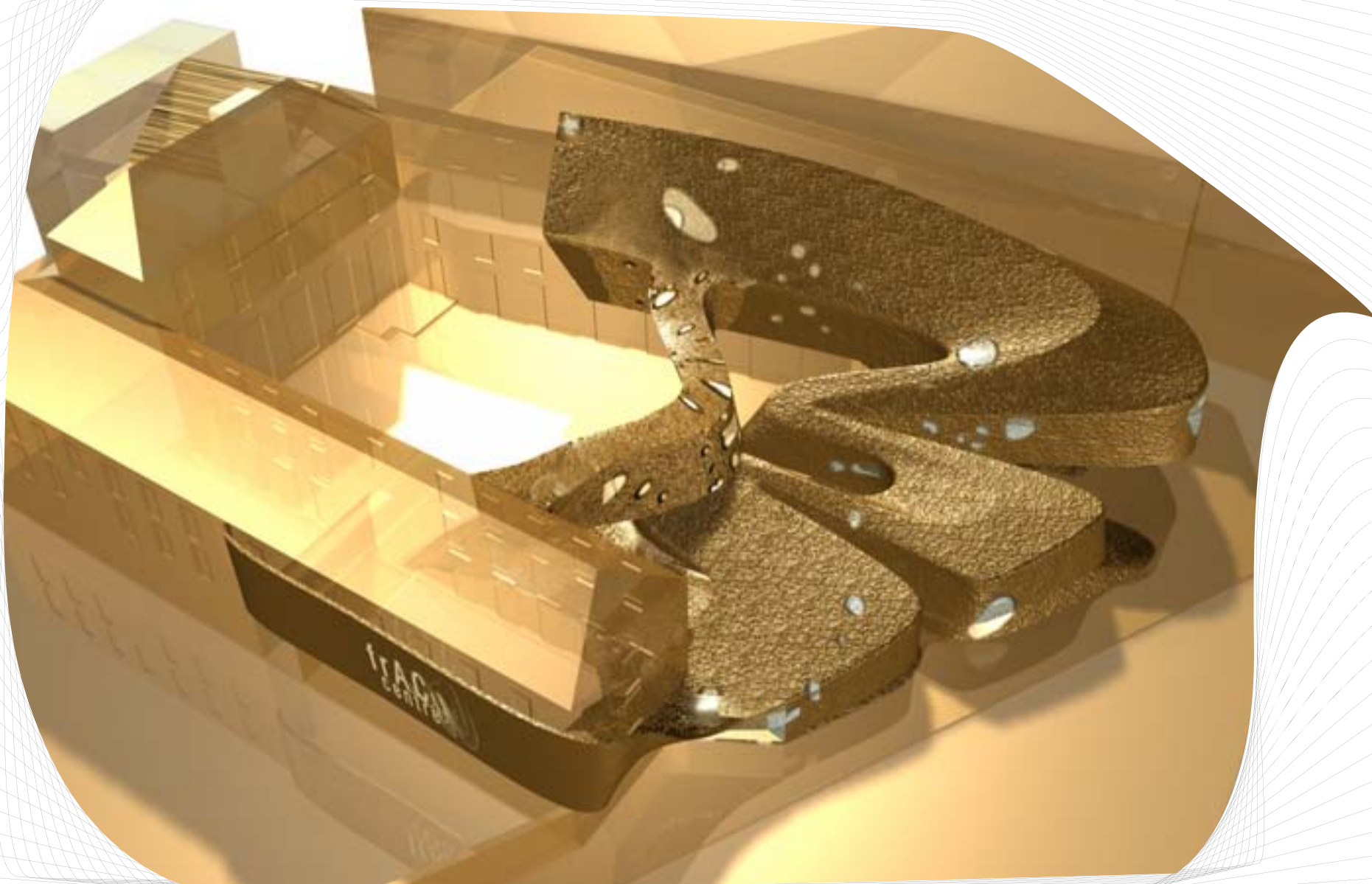
*FRAC contemporary art and architecture museum competition finalist Orléans, France exterior views*





*FRAC\_contemporary art and architecture museum\_competition finalist\_Orléans,France\_exterior views*









***INVERSAbrane***

***Prototype Exterior Skin***



*INVERSAbrane is a project focused on going beyond the current "green" curtain wall standard through strategic linking of advanced geometry, material and structural engineering, digital fabrication technologies and emerging expertise in ecology and biomedica.*

*INVERSAbrane is exterior membrane and infrastructure. Its performance is based on excess surface which maximizes contact with the environment and creates a unique opportunity for eco-systemic exchanges between building and city. Air, water and light are recycled through it and used as sources of energy. The membrane's capacity to invert links exterior and interior into a mutually enhancing feedback system with the effect of producing greater safety and comfort for both environments.*

*Rather than adopt a more common approach to safety based solely on bracing against a potential danger or reducing "bad effects", INVERSAbrane aims to follow the kind of thinking that drives the design of race-cars and extreme sport equipment. Here, increased safety allows for higher performance, greater range and elevation of accepted standards. INVERSAbrane is extremely safe. It aims to enhance life rather than merely preserve and to increase performance in order to transform.*

*Just as in our living environment, in INVERSAbrane the natural and the artificial intermingle. We believe that designing for this intermingling from the very beginning makes the membrane a safer product. The most apparent consequence presents itself in the range of materials under consideration for the project. More subtle but no less significant is the use of artificial intelligence software. With safety as one of the agencies of intelligence built into the design process, the INVERSAbrane is capable of adapting to specific concerns at each site. Safety is not an added layer to the project but informs and shapes all aspects of it.*



**Project Type:**  
*High Performance Exterior Building Membrane Prototype*

**Location:**  
*DuPont, USA*

**Size:**  
*3x6x.2m*

**Cost:**  
*120,000 USD*

**Key Staff Members on Project:**

**Design Principal:**  
*Sulan Kolatan*

**Design Principal:**  
*William Mac Donald*

**Senior Designer:**  
*Theo Calvin*

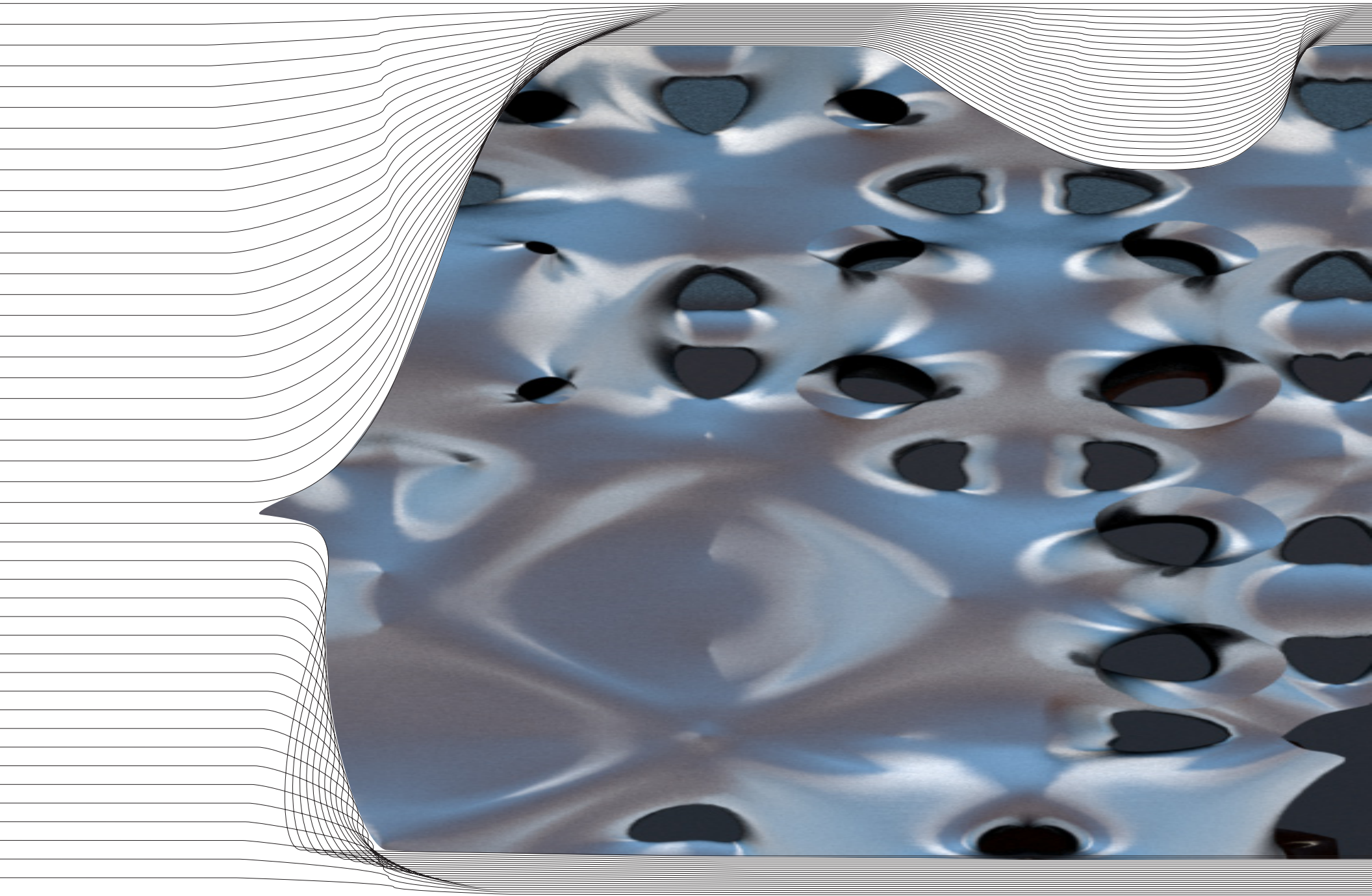
**Project Manager:**  
*Chris Whitelaw*

**Client/Sponsor:**  
*DuPont*

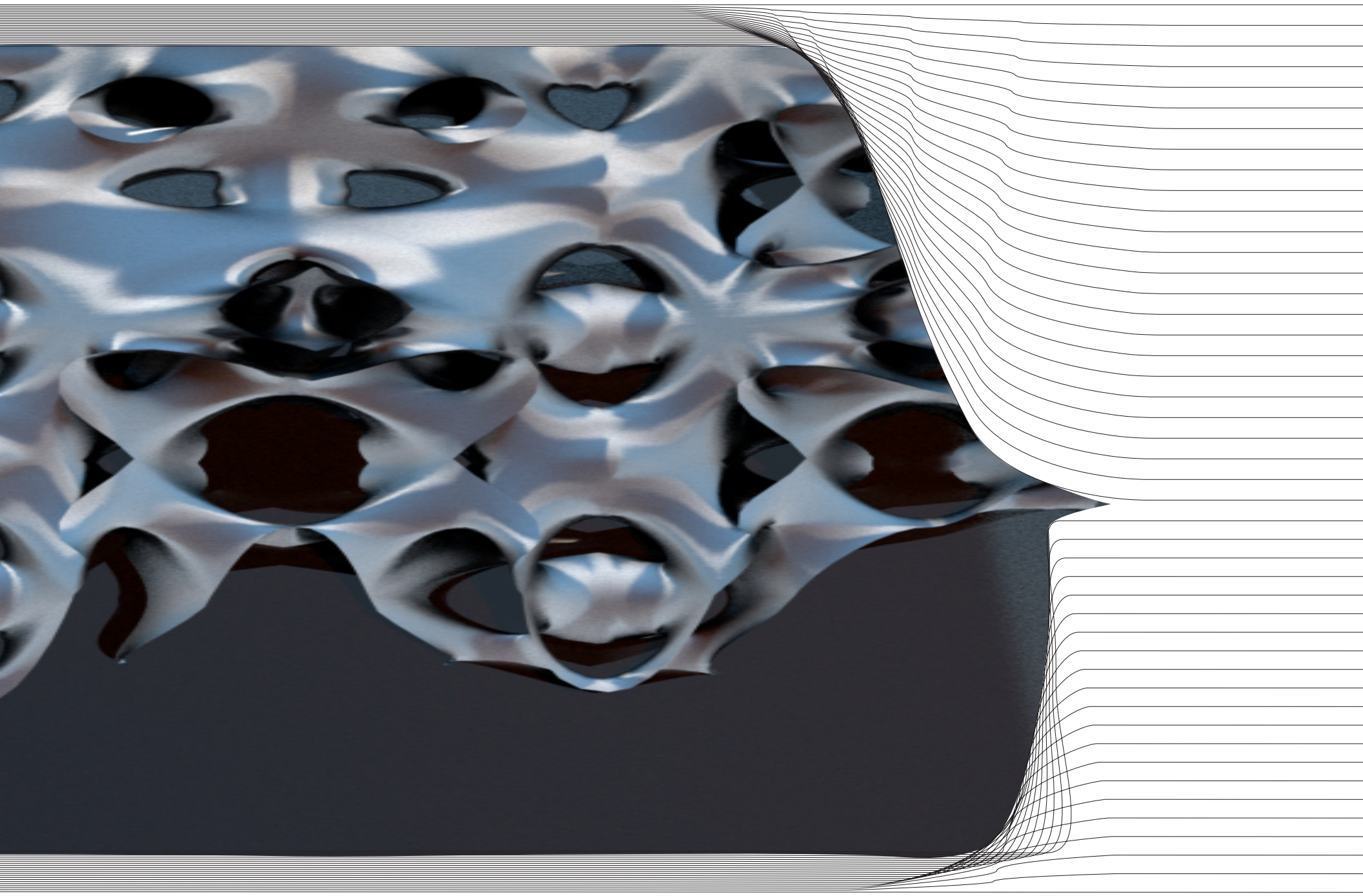
**Client Representative:**  
*Megan Shaughnessy*

**Telephone:**  
*612 331 0217*

**Consultants:**  
*Arup AGU, London*



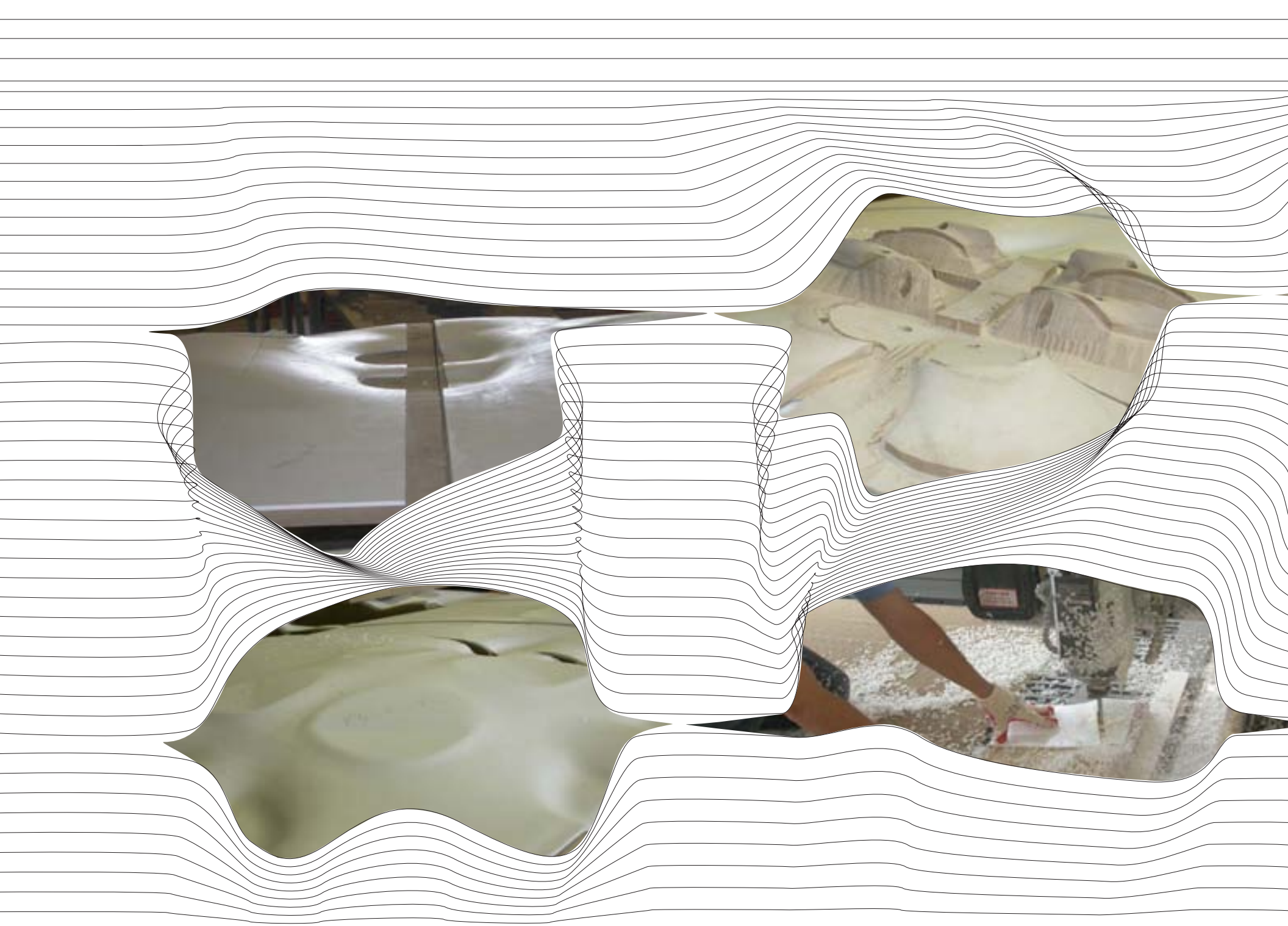
*INVERSAbrane\_new building membrane prototype version 1.0\_ceramic finish*

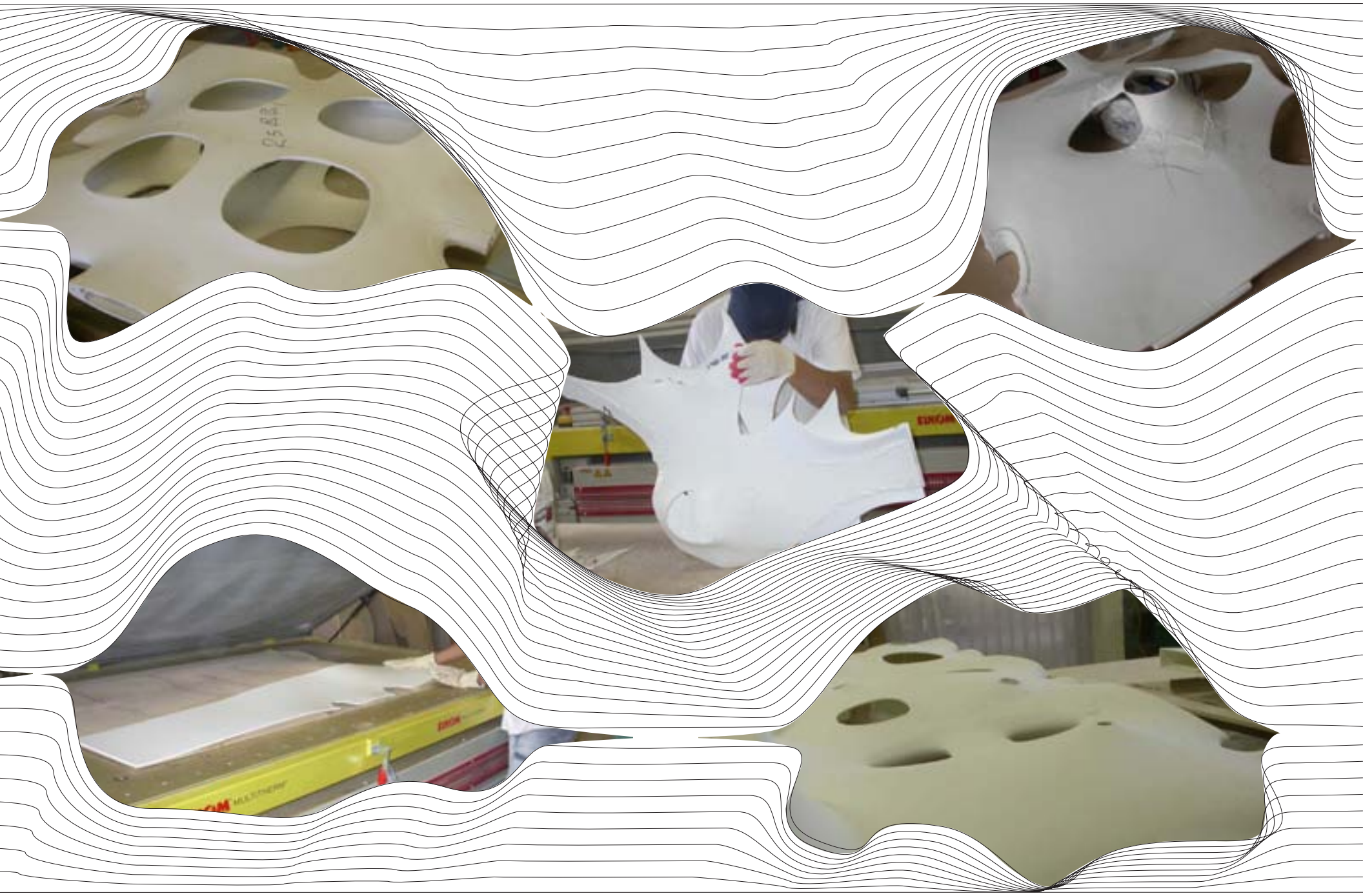


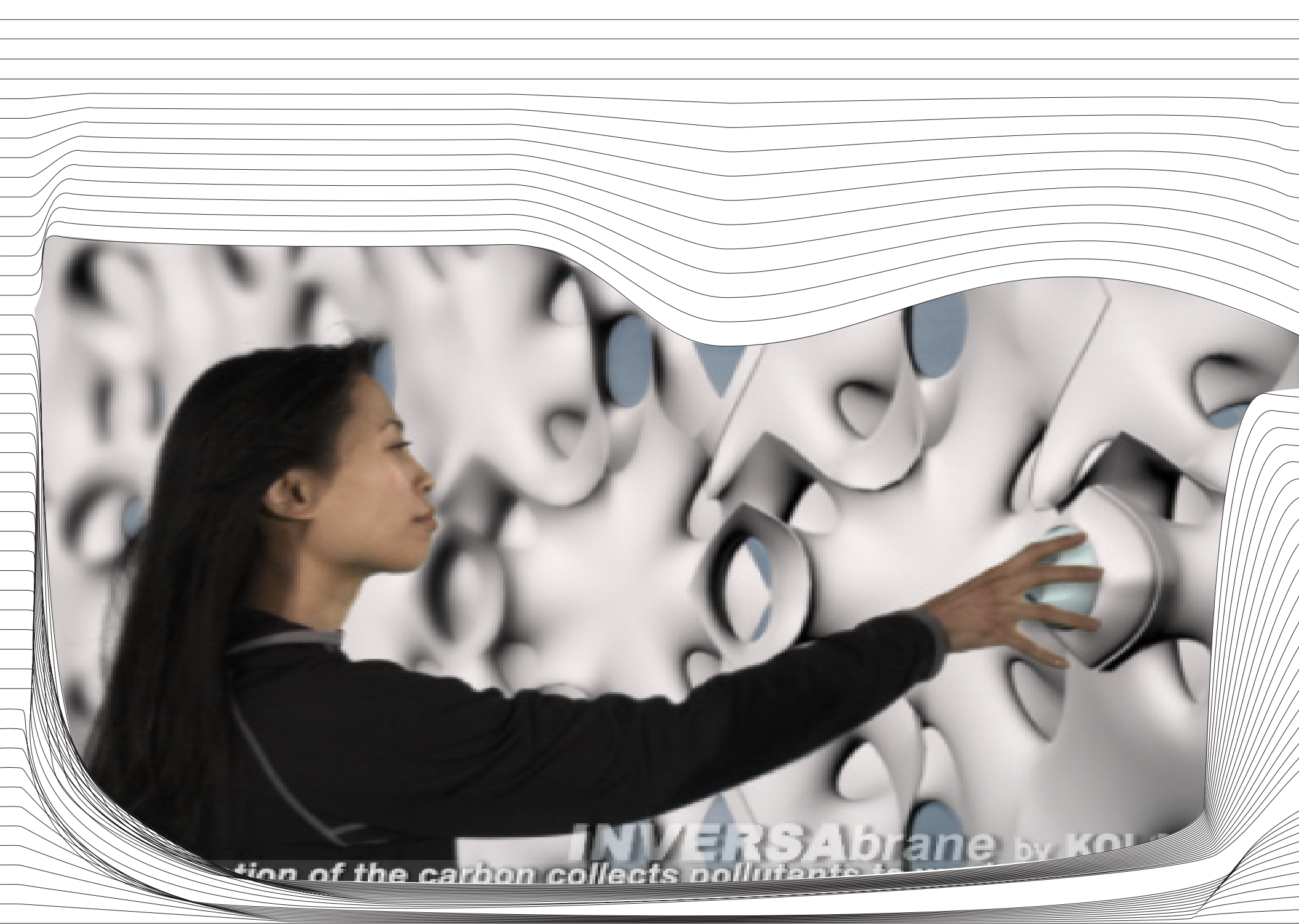


*INVERSAbrane\_new building membrane prototype version 1.0 exterior DuPont Corian at Museum of Modern Art exhibition New York*



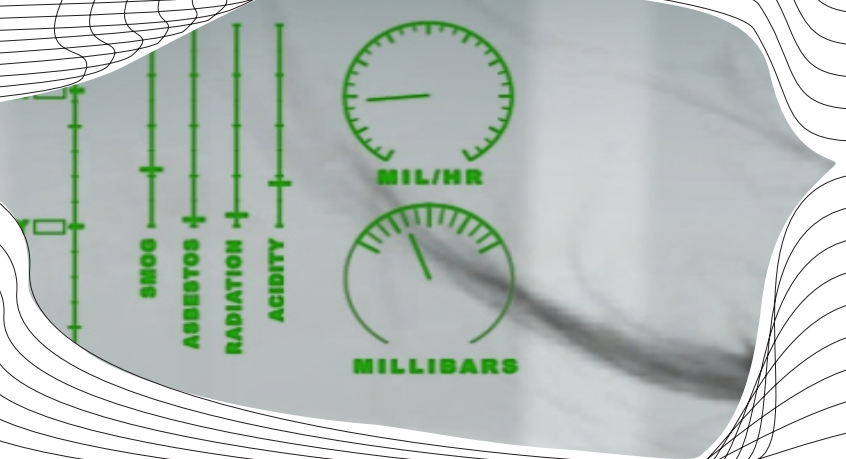






**INVERSAbrane** by KOL  
tion of the carbon collects pollutants to

**INVERSAbrane** by  
strength and conductivity. Negative ionization of the c





***GEM***

***Museum Competition***



**Description:**

The project consists of 5 programmatic clusters. These are interconnected through 4 large parks and over 20 small courtyards that together constitute the open-air space system. The project's core is occupied by the Permanent Exhibition (cluster 1) with its 6 thematic paths. There are 3 major entrances into the complex, two for the public approaching from the Cairo-Alexandria Expressway, and one for the museum staff entering from the housing complex.

**Conception:**

The project explores the archeological museum from the point of view of a distributed system paradigm. It extends the notion of hypertext ---as proposed in the competition brief in reference to the permanent exhibition--- to the entire museum complex thereby creating an adaptable system of connectivity, open to change and growth over time. Different kinds of units interact with each other and the landscape to form a continuous environment. This strategy is by its very nature "open" to change and growth.

**Construction:**

The project utilizes sand in many forms. The building walls are concrete panels cast onto the landscape. Sand-filled synthetic blankets help stabilize the dunes. In strategic places, sand is calcified in-place to form hard walls and surfaces.

The complex and landscape will maximize sustainability and ecological approaches. Renewable energy sources on site such as sun and wind will be considered as well as water re-use. Using phyto-remediation through hyper-accumulating plants to clean water, air and soil pollution, if applicable, will also be an option.

**Building Type:**  
Museum Campus comprising an Archeological Research Institute,  
Visitors' Center, Offices and Parks

**Location:**  
Cairo / Giza, Egypt  
**Building Size in Square Meters :**  
82,200 m<sup>2</sup>

**Landscape area in Square Meters:**  
398,000 m<sup>2</sup>

**Key Staff Members on Project:**

Design Principal:

Sulan Kolatan

Design Principal:

William Mac Donald

Project Architect:

Julian Palacio

**Project Manager:**

Y. Suatanto

**Client:**

Mr. Farouk Hosny, Minister of Culture Supreme Council of  
Antiquities

Arab Republic of Egypt

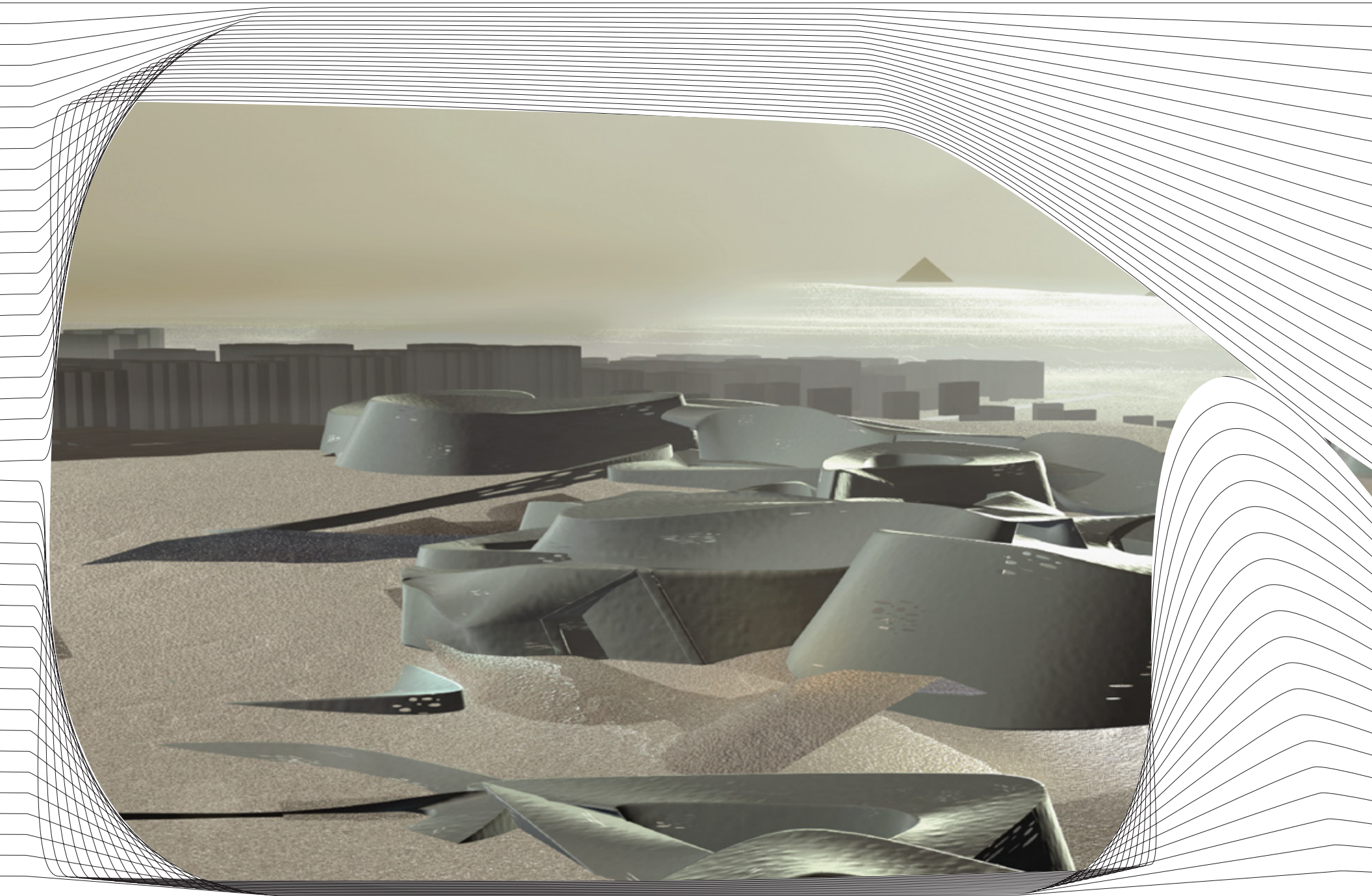
**Client Representative:**

Prof. Yasser Mohamed Mansour

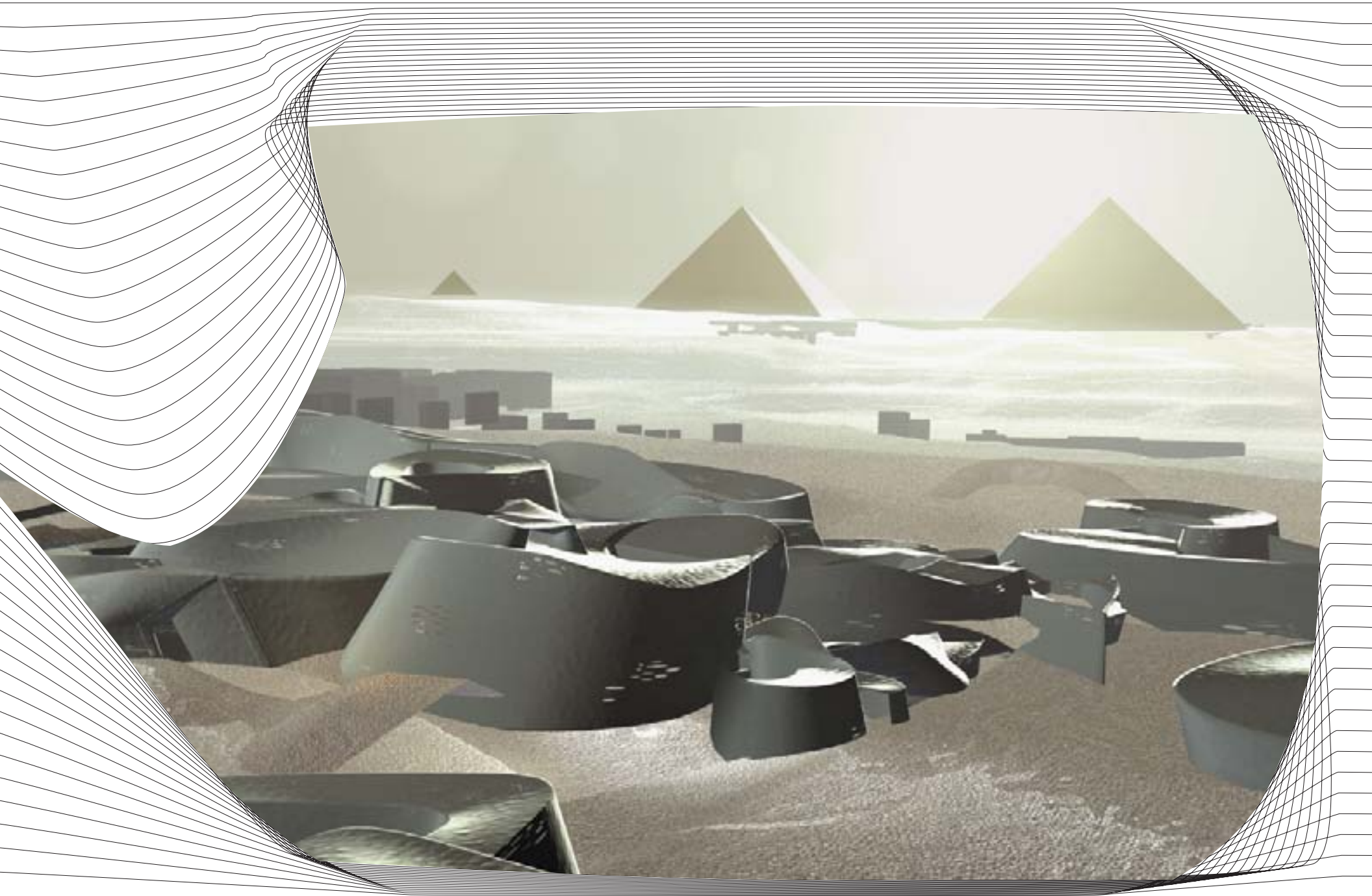
**Telephone:**

+002027414604





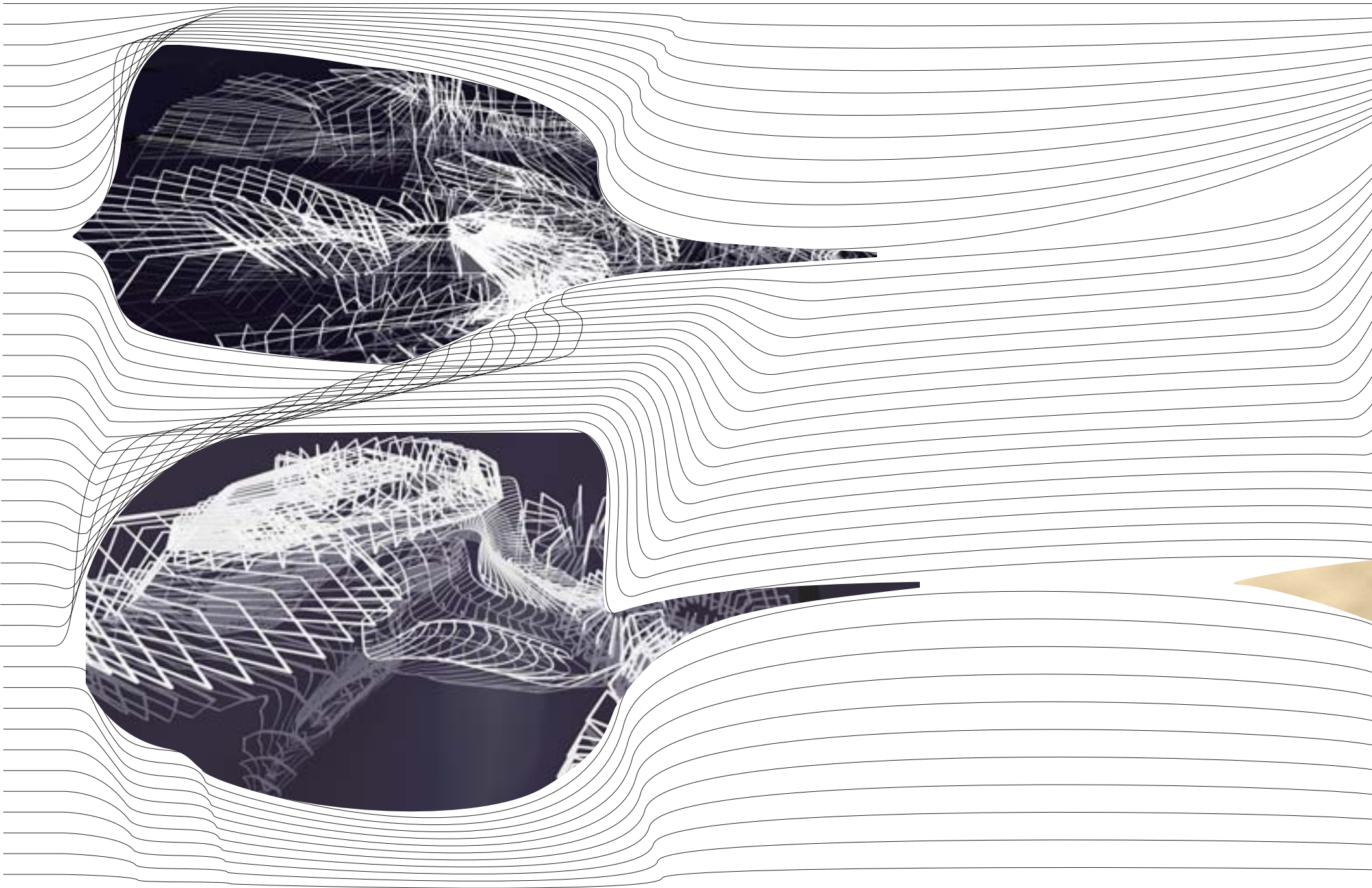
GRAND EGYPTIAN MUSEUM COMPETITION\_Giza\_view with pyramids

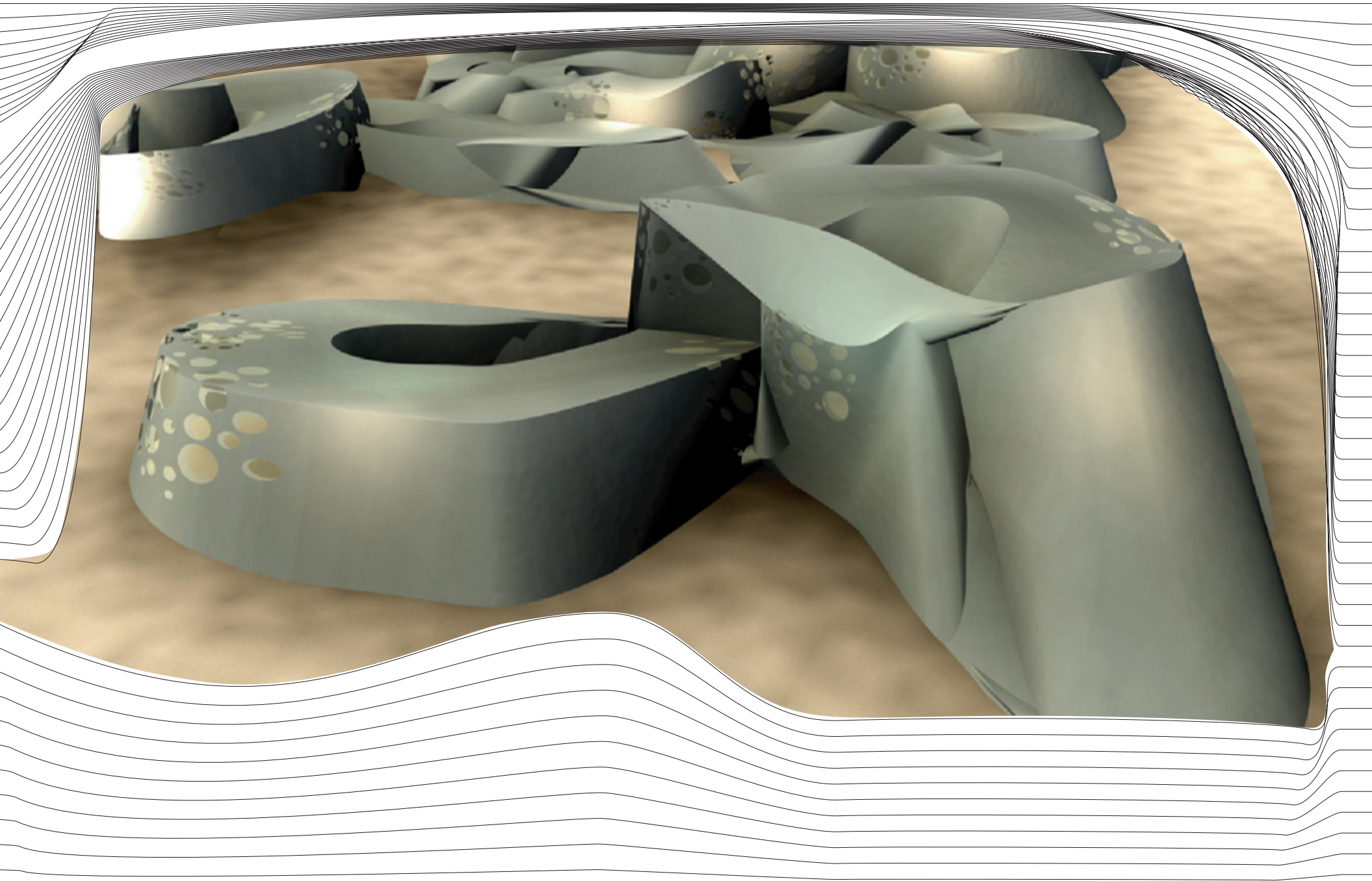


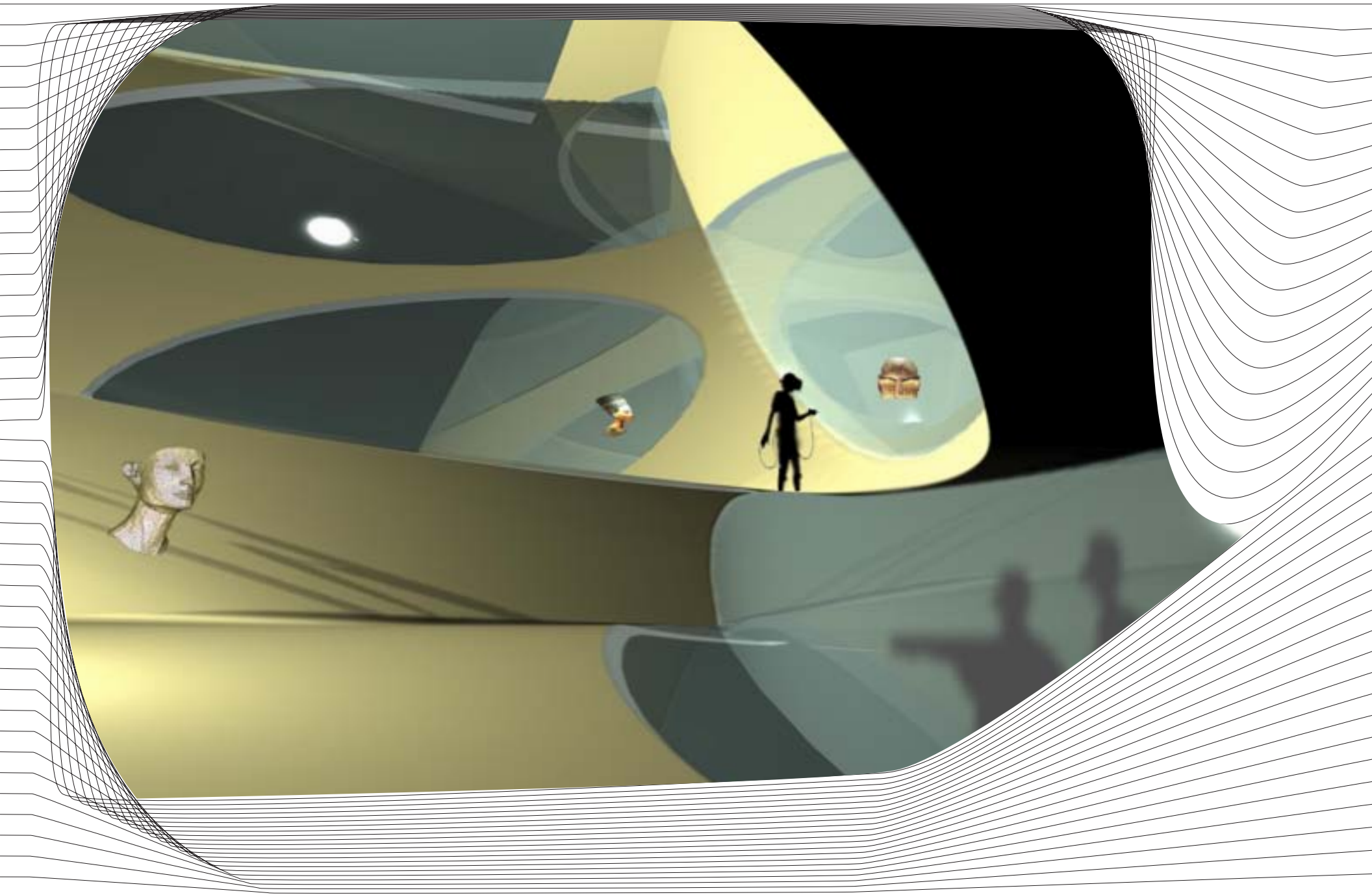


GRAND EGYPTIAN MUSEUM COMPETITION Giza overall aerial view of landscape and museum elements

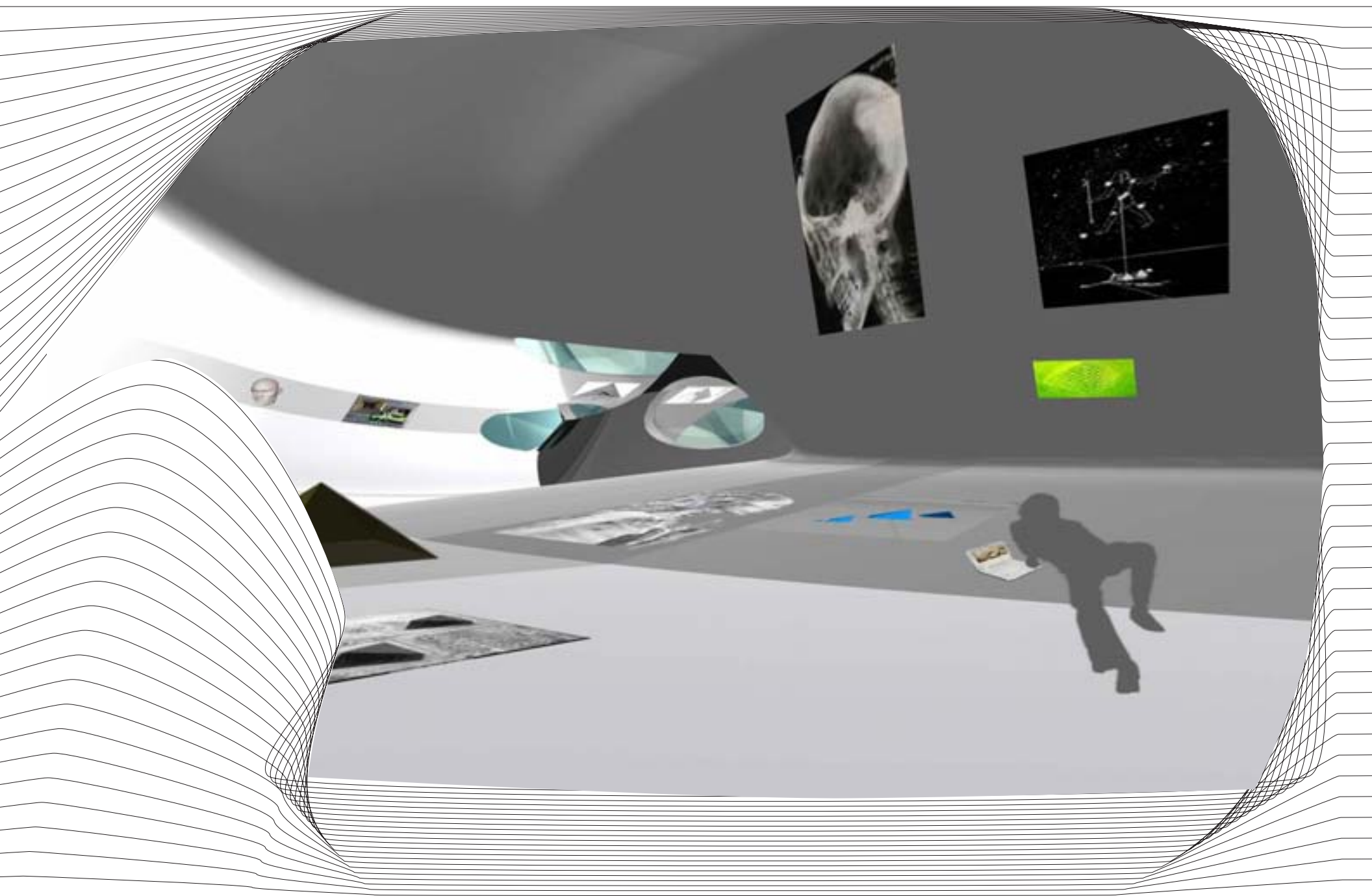








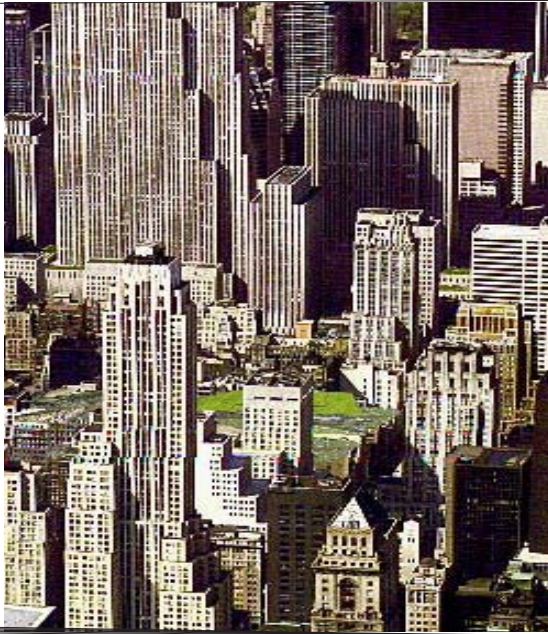
GRAND EGYPTIAN MUSEUM COMPETITION Giza interior view of "knot" space and exhibition gallery





***5th AVENUE***

***Urban Redevelopment***



**Description:**

As an extension of the Rockefeller Center Redevelopment efforts, The Municipal Arts Society of New York, Tishman Speyer Properties, Rockefeller Group, Estee Lauder, requested a proposal concerning the redevelopment of neglected sections of 5th Avenue.

**Conception:**

Aerial views of Manhattan indicate the extreme scarcity of horizontal public terrain on the ground, on one hand, and a potential for the roof-scape of 5th Avenue to be defined as a second urban datum, on the other. Our proposal is based on these two interconnected observations. Air-rights practices have shaped the Midtown skyline and streetscape alike through vertical accumulation of compacted private space and horizontal extrusion of impacted public space. Our strategy suggests a different relationship between these two domains with productive benefits to both. The proposed structures occupy "Soft Sites", sites that are 'underbuilt' according to Zoning Laws, and co-sites Central Park -Manhattan's foremost horizontal public terrain and a 5th Avenue Landmark- by installing a decentralized system of quasi-parks at the second urban datum.

**Construction:**

In addition to identifying new urban horizontal open air surfaces, the "soft site" concept permits the improvement of obsolete office buildings with small floor plates by providing an opportunity to enlarge the floors through horizontal expansion. The new structures tie into existing vertical structure and infrastructures where possible, but use the opportunity to connect directly to the ground through vertical footholds in places where a small building can be replaced. The individual horizontal layers are supported by bi-axial Vierendeel trusses and therefore largely column-free.

**Project Type:**

Urban Design

**Location:**

New York, New York USA

**Project Size:**

Site Area of Intervention for Urban Design Proposal:  
Fifth Avenue; from 23rd Street at Madison Square Garden Park to  
124th Street at Marcus Garvey Park

**Key Staff Members on Project:**

**Design Principal:**

Sulan Kolatan

**Design Principal:**

William Mac Donald

**Senior Designer:**

Erich Schoenenberger

**Project Manager:**

Otto Ruano

**Client:**

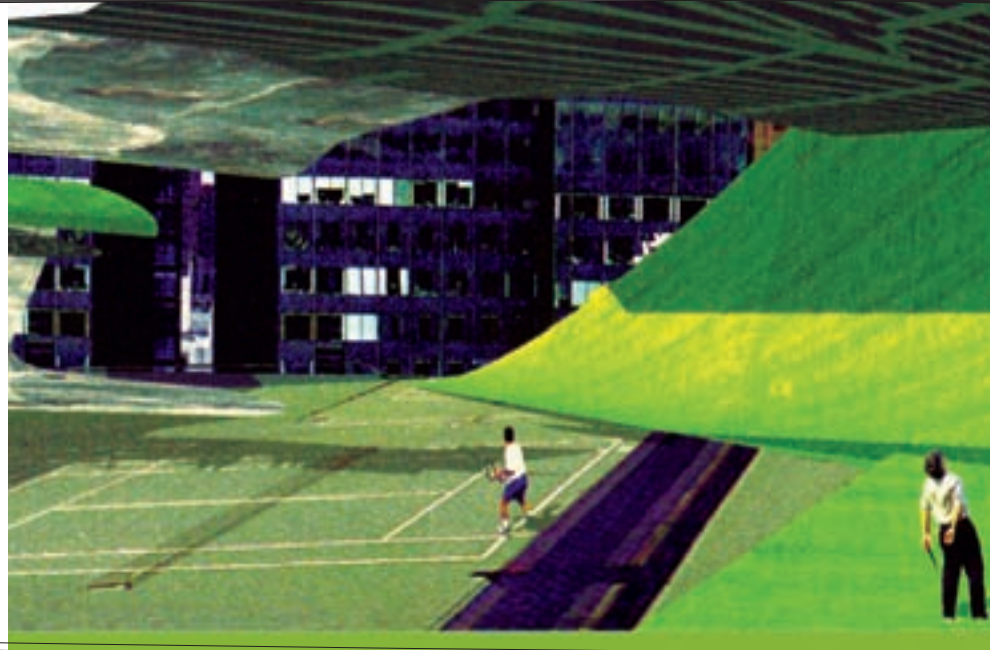
Municipal Arts Society of New York, Rockefeller Center Re-  
development, Tishman Speyer Properties, Rockefeller Group, Estee  
Lauder

**Client Representative:**

Brendan Sexton III, President, The Municipal Arts Society of NY

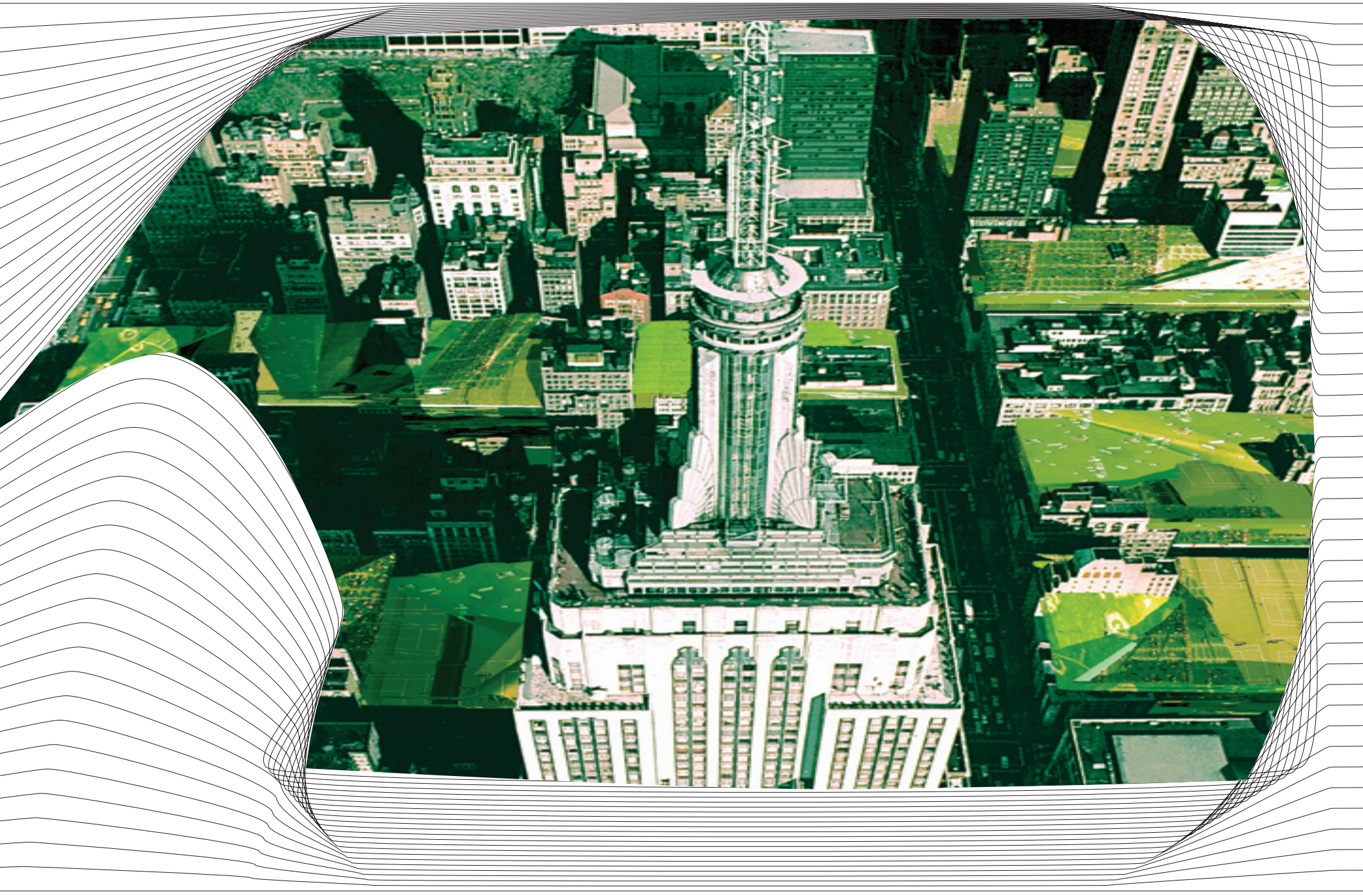
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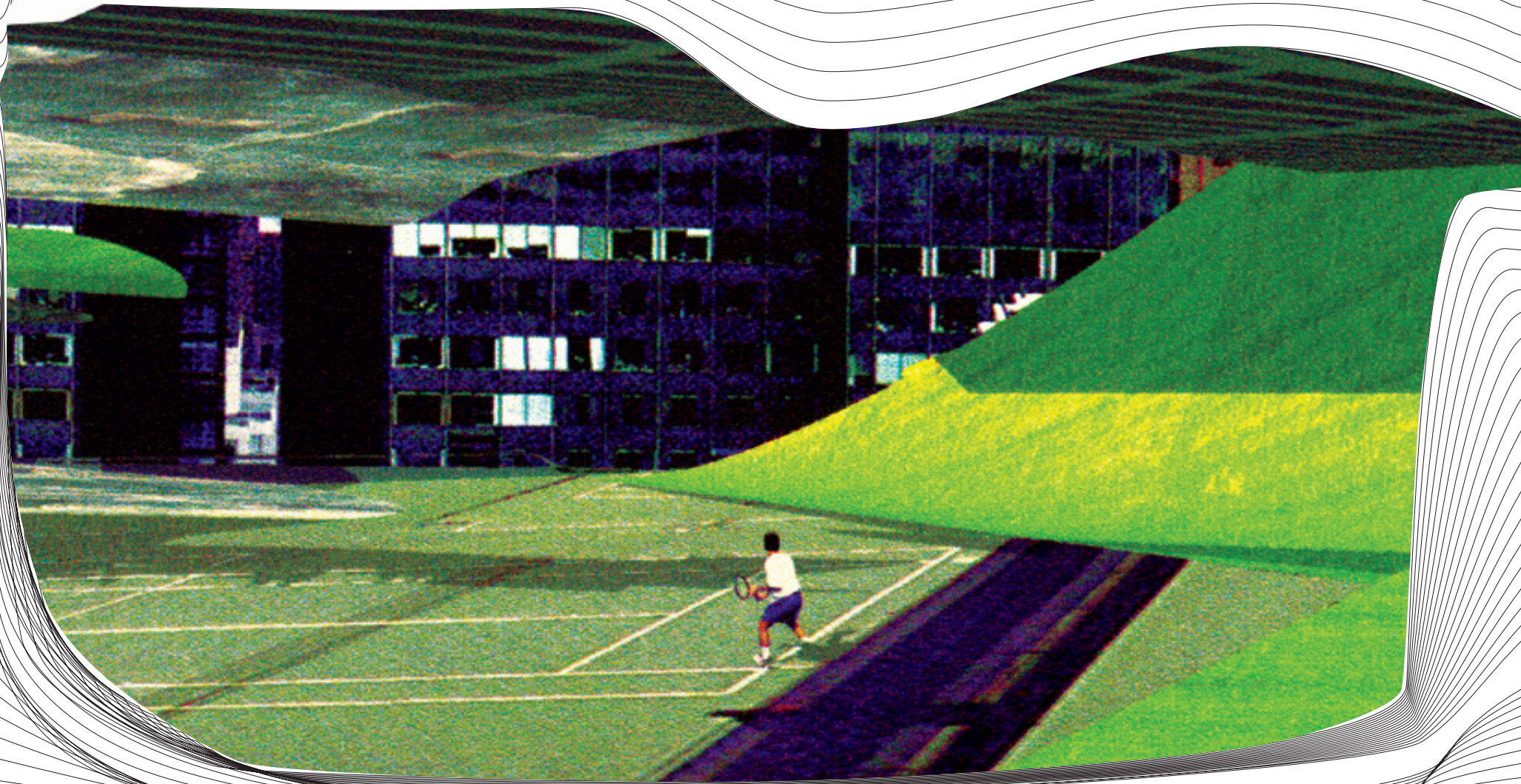
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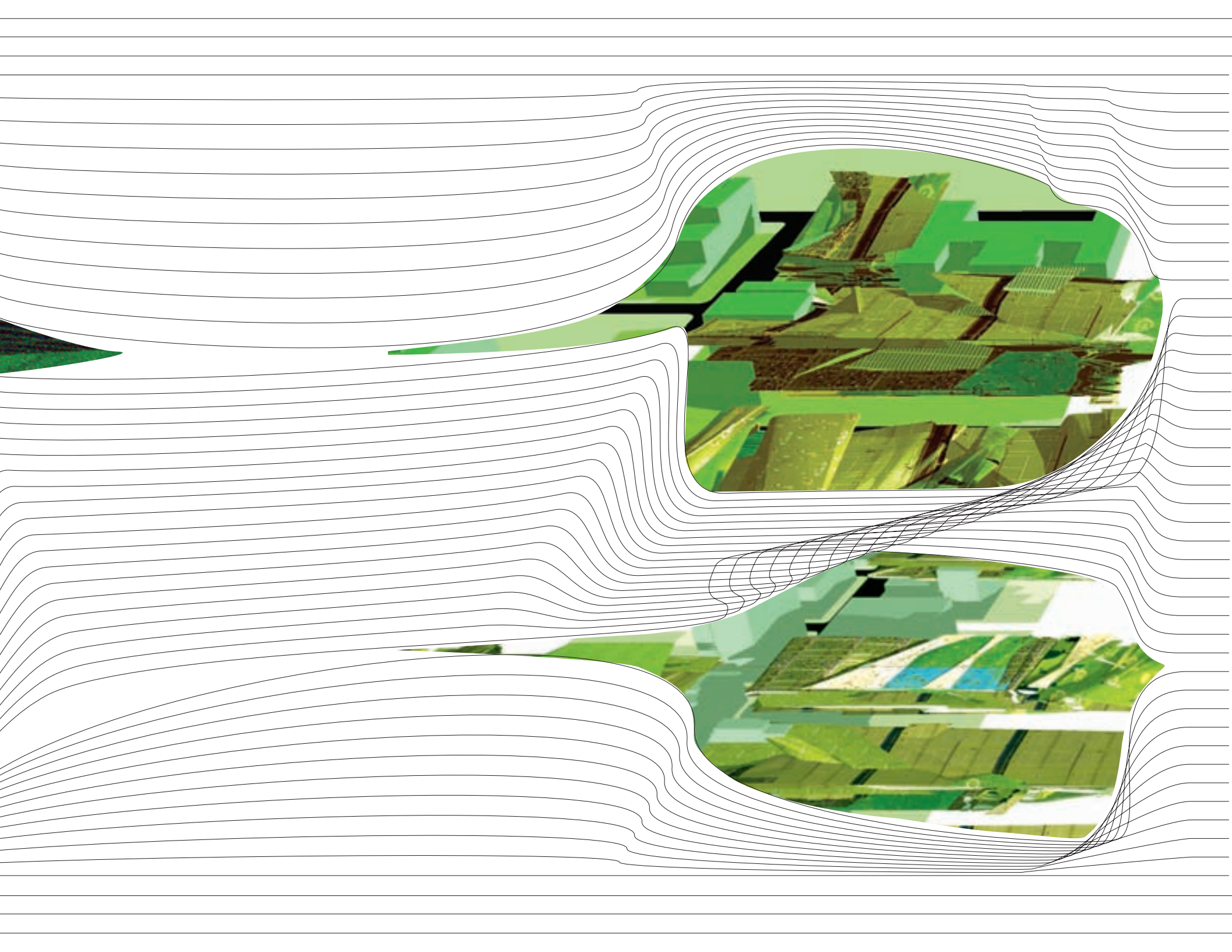


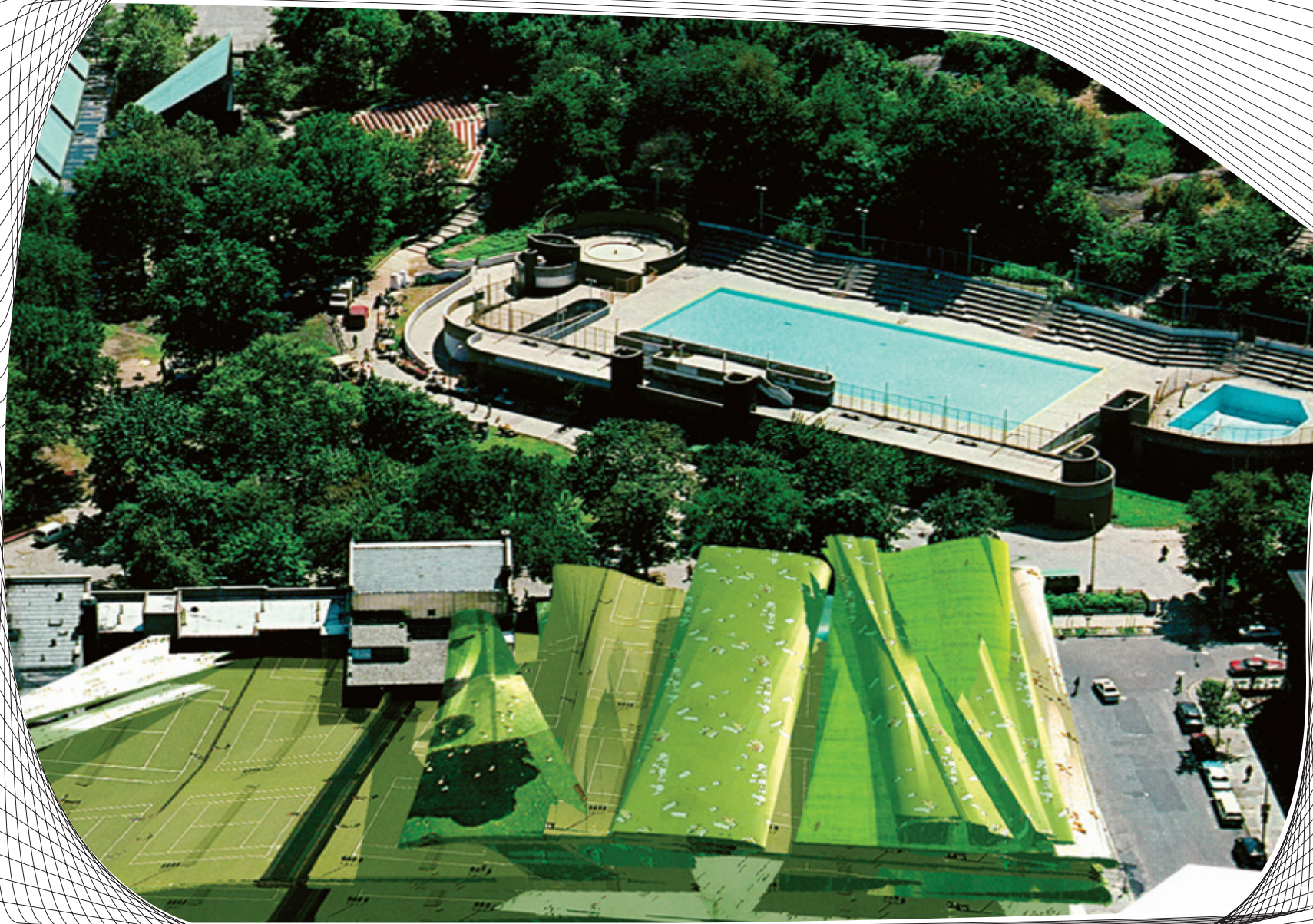
*5th AVENUE URBAN REDEVELOPMENT multi-use utilization of urban rooftops New York views of mid-rise locations around Empire State Building*





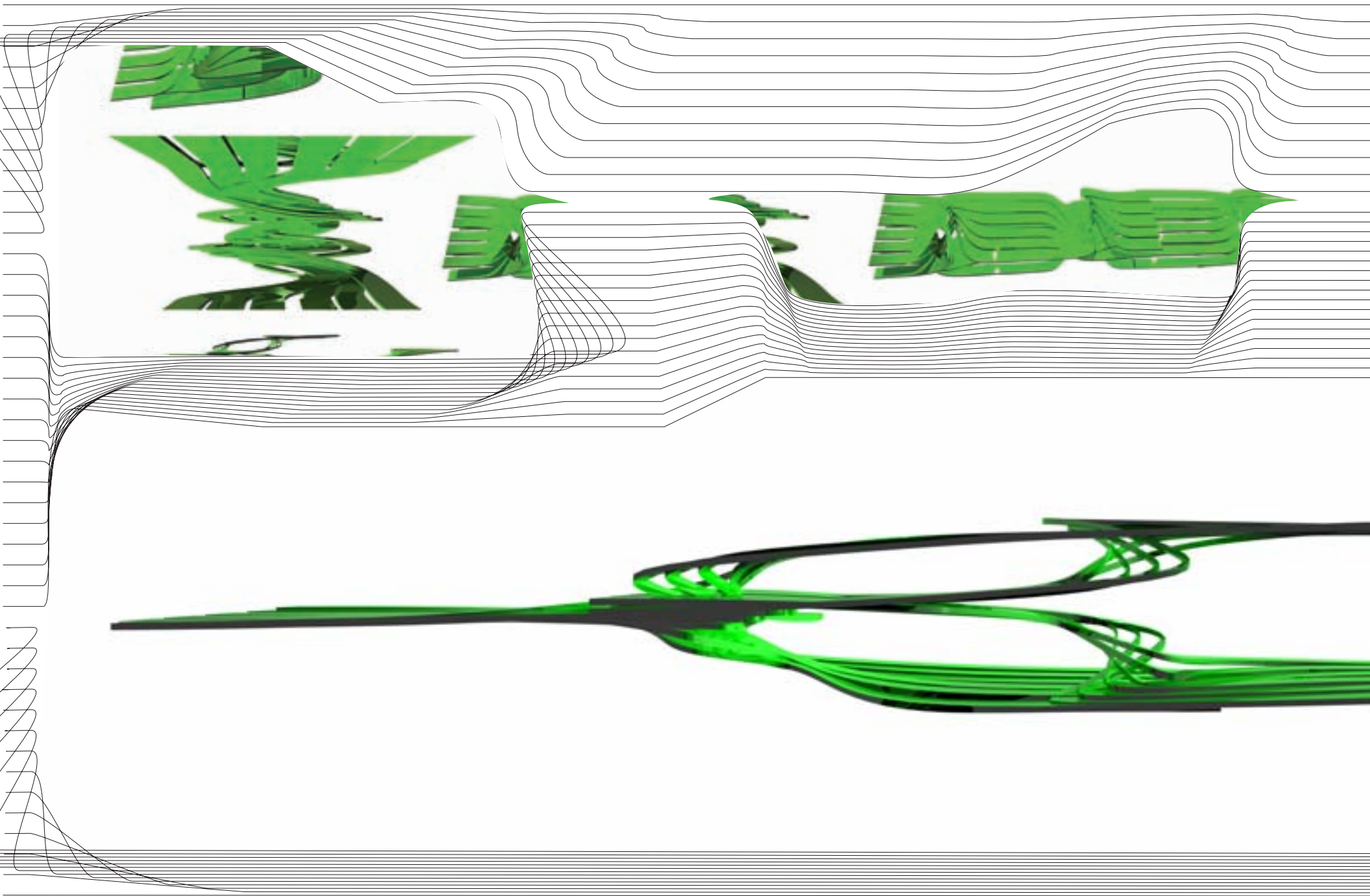
*5th AVENUE URBAN REDEVELOPMENT\_multi-use utilization of urban rooftops\_New York\_views of exterior sports areas and low-rise locations*

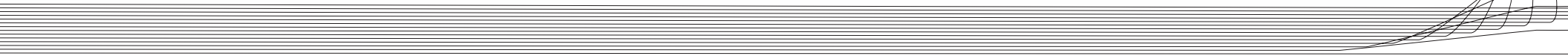
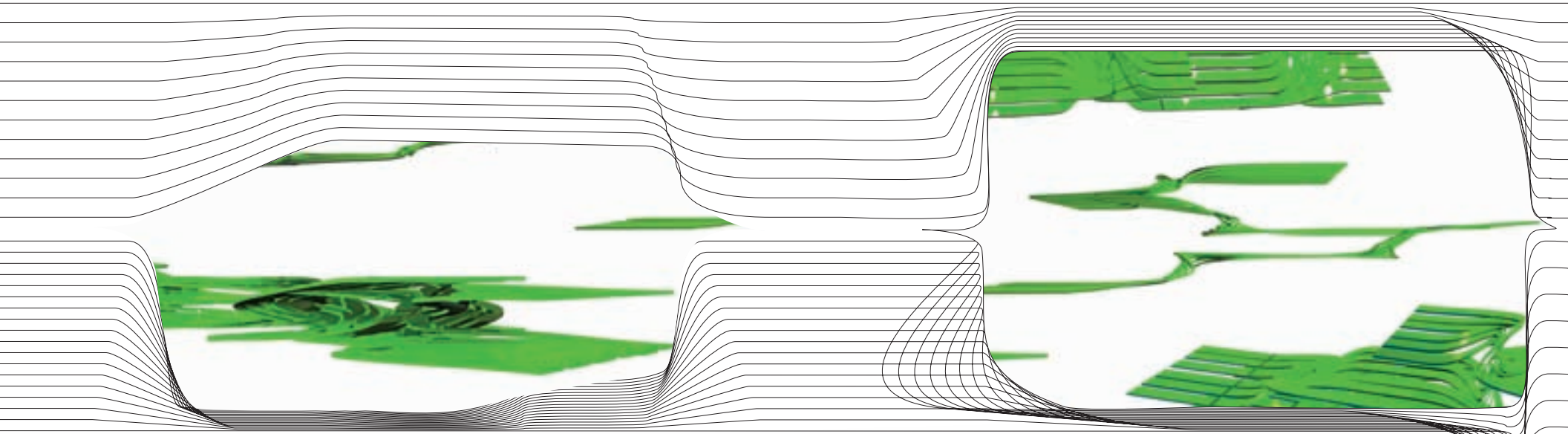




*5th AVENUE URBAN REDEVELOPMENT\_multi-use utilization of urban rooftops\_New York\_views in Harlem and Rockefeller Center locations*



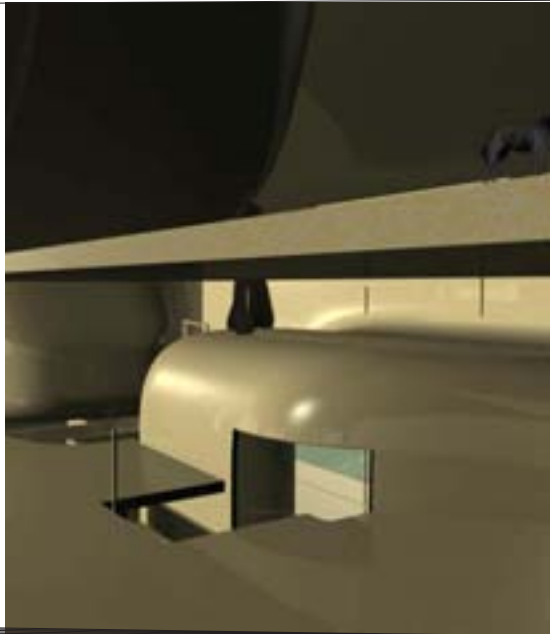






***H-RESIDENCE***

***Private Villa***



*Description:*

The H House is located atop a steeply sloping site on the Asian shore of the Bosphorous in Istanbul. The site has a view of the Bosphorous, one of its 3 bridges, and the city. Due to Landmark Regulations in all areas visible from the water, the new building has to conform to the envelope of the existing building it will replace, a non-descript 1970ies two-family house. The original building does not take advantage of the sloped site or the view and is very deep. In addition to the 10,000 square feet house, the program requires a caretakers' house, 5 car garage, swimming pool and garden.

*Conception:*

The envelope of the existing house is treated as an abstract malleable membrane while points of significance in the garden or in the distant view are allowed to 'influence' it. The resulting inflections enhance relationships to site and view, as well introducing light and air into the deep core. The introduction of operable glass walls at these locations imbues the house with a double-envelope that facilitates seasonal adaptation. The exterior limit of the house can switch from the inner concrete envelope (summer) to the outer glass wall (winter).

*Construction:*

Because of the inflections no additional structural elements are needed. The total envelope comprises the structure and is to be erected out of concrete using flexible molds.

**Building Type:**

Residential

**Location:**

Istanbul, Turkey

**Project Size in Gross Square Feet:**

10,000 square feet Main Residence; 2,500 square feet caretaker's quarters and guest house

**Cost:**

2,900,000 USD

**Key Staff Members on Project:**

**Design Principal:**

Sulan Kolatan

**Design Principal:**

William Mac Donald

**Senior Designer:**

Seungki Min

**Project Manager:**

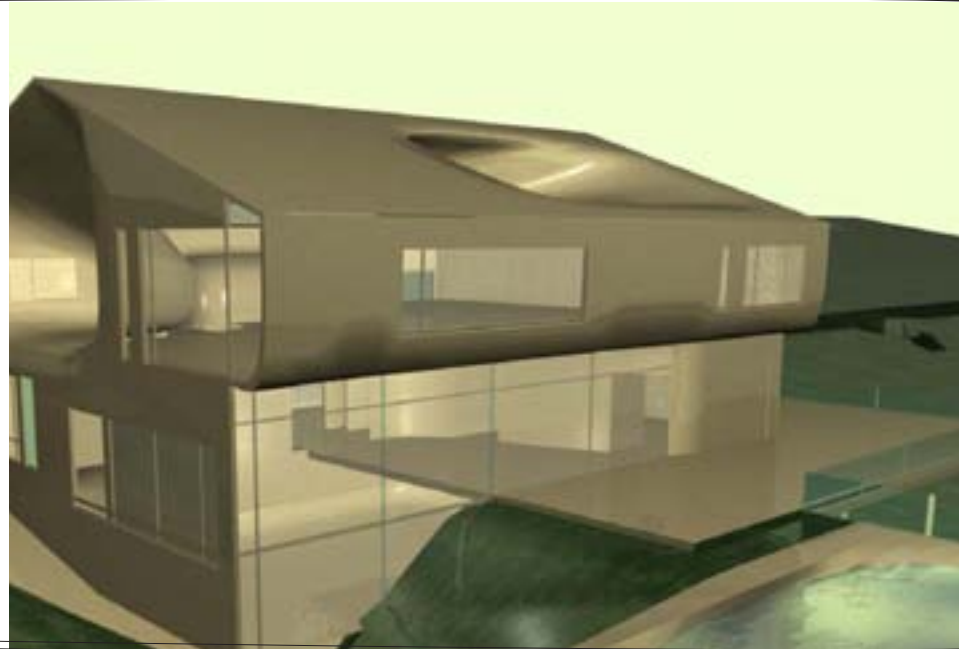
Sung Kim

**Client:**

Mr. Servet Harunoglu

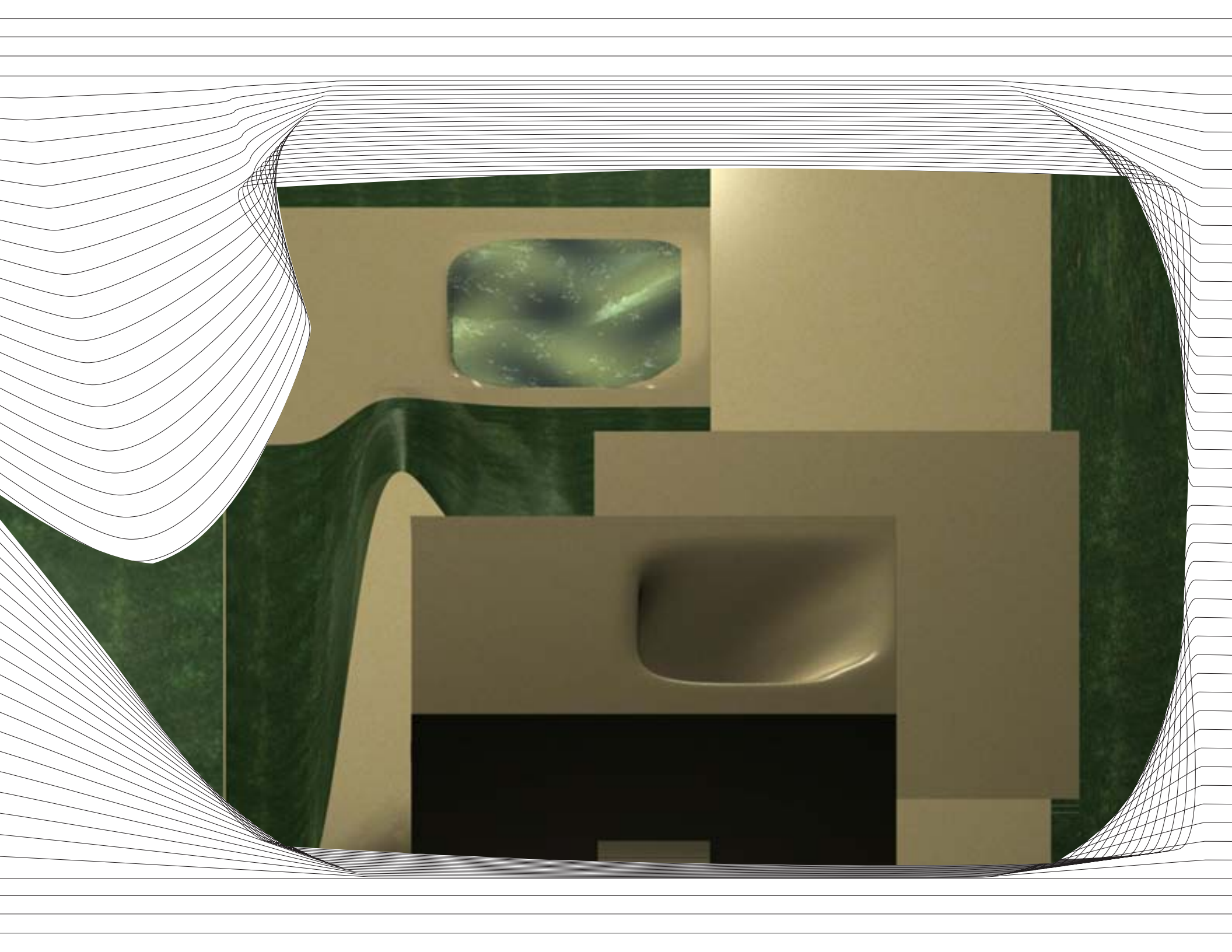
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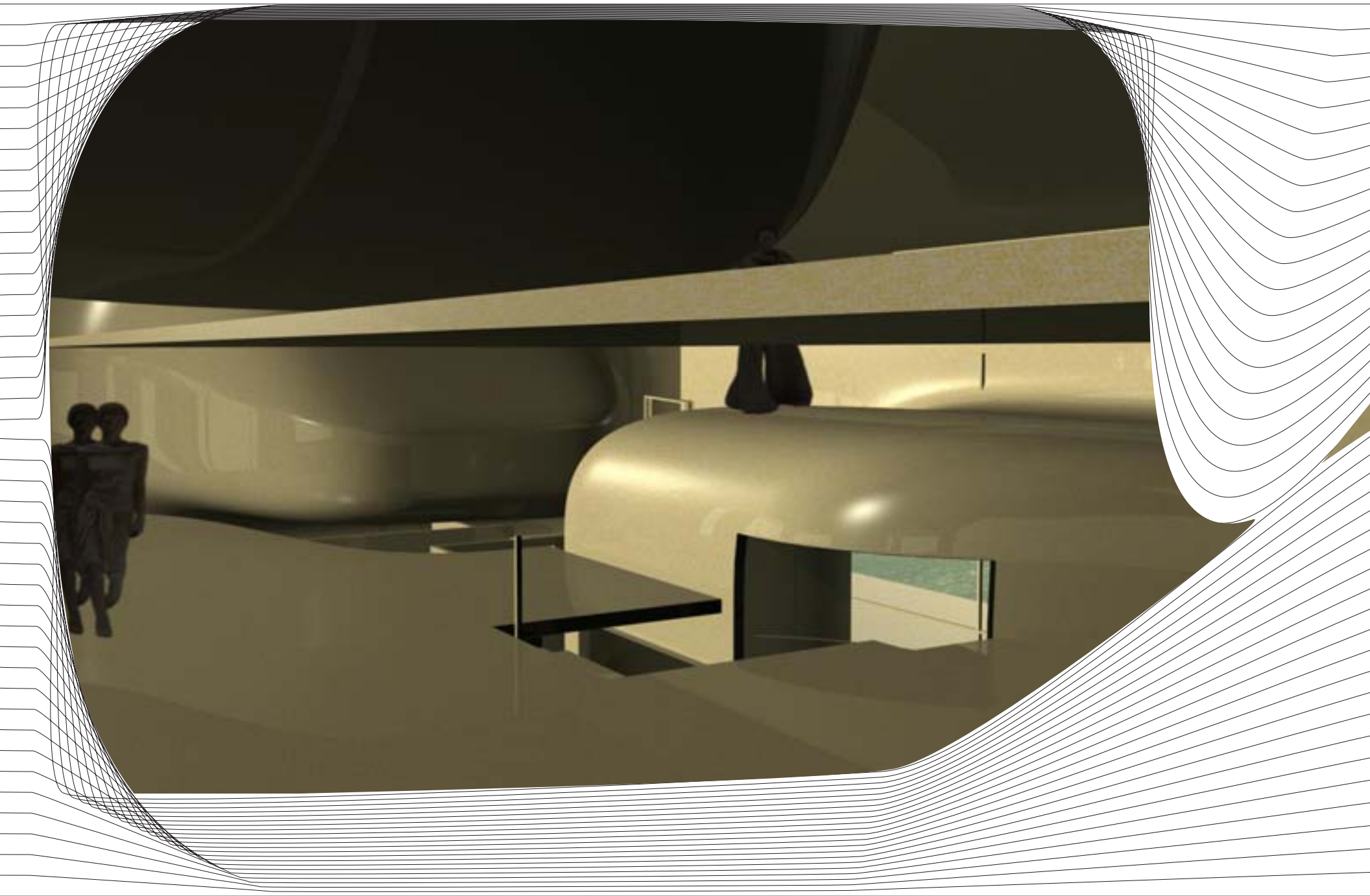
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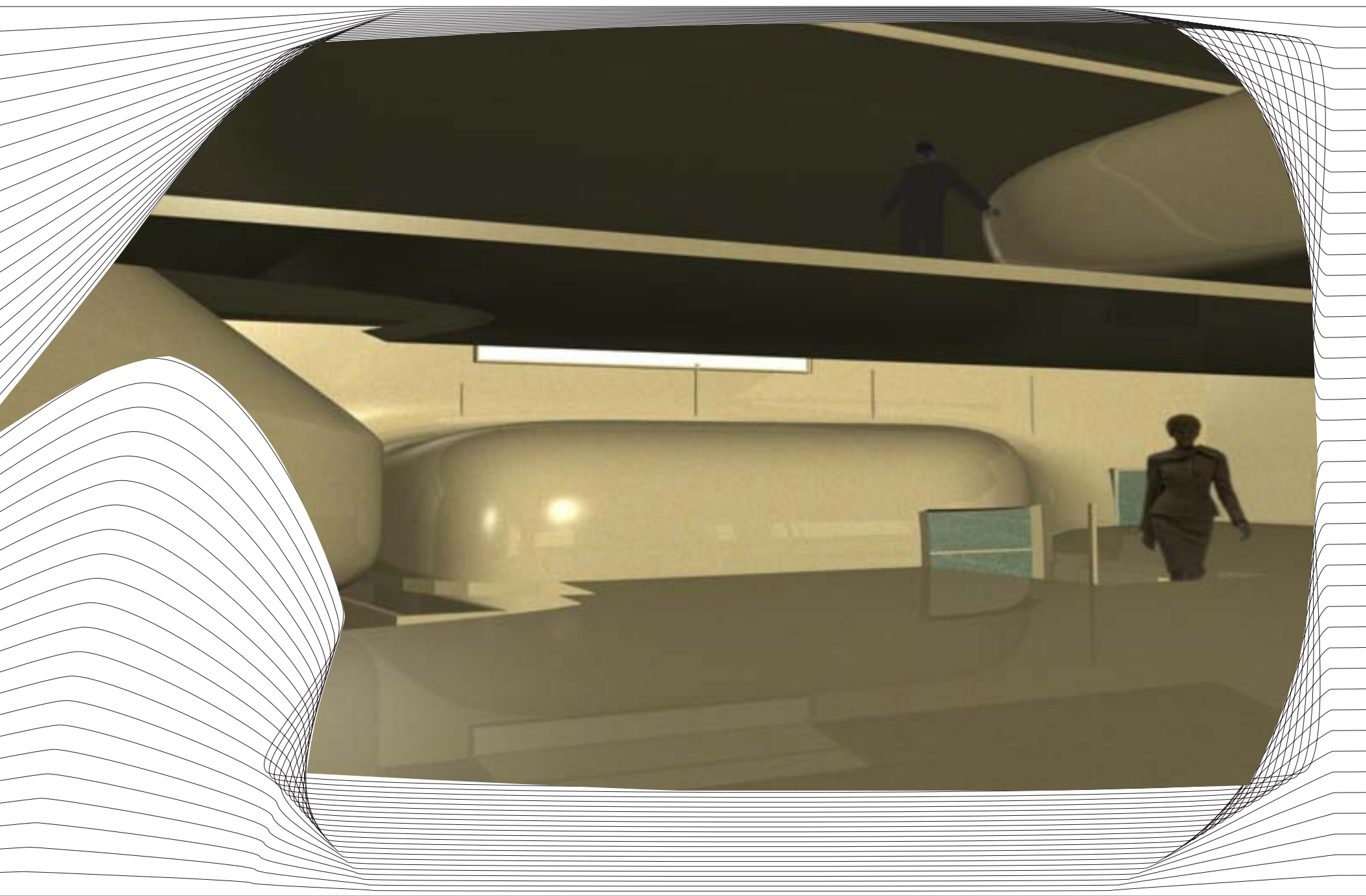


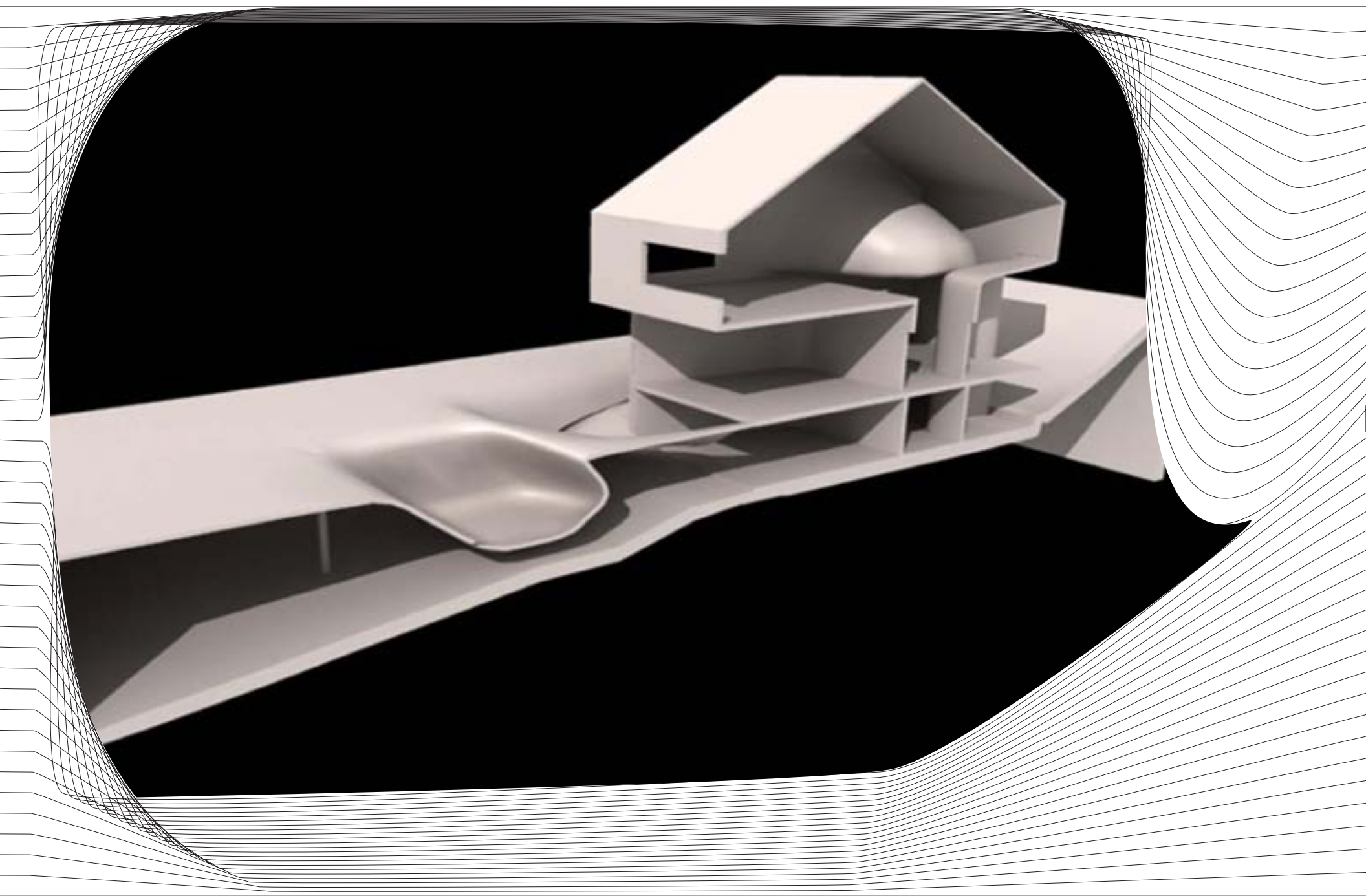
*CENGELKOY RESIDENCE\_Istanbul\_view of exterior and aerial*





*CENGELKOY RESIDENCE Istanbul views of interior*





*CENGELKOY RESIDENCE Istanbul left and right section-cut through model*

