

GLIMPSE INTO THE VIRTUAL NATURE



VALERİ HEMŞİ

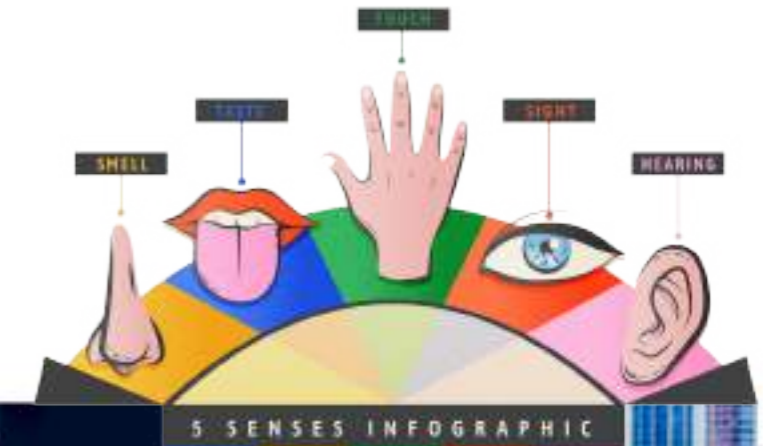
MOST OF THE IMAGES IN THIS PRESENTATION ARE GENERATED WITH  
ARTIFICIAL INTELLIGENCE TECHNOLOGY, BY USING MIDJOURNEY.

"Rethinking design to empower a future of complete synergy between Nature and humanity"

*Neri Oxman*

# VIRTUAL NATURE IN THE LIVING ENVIRONMENT

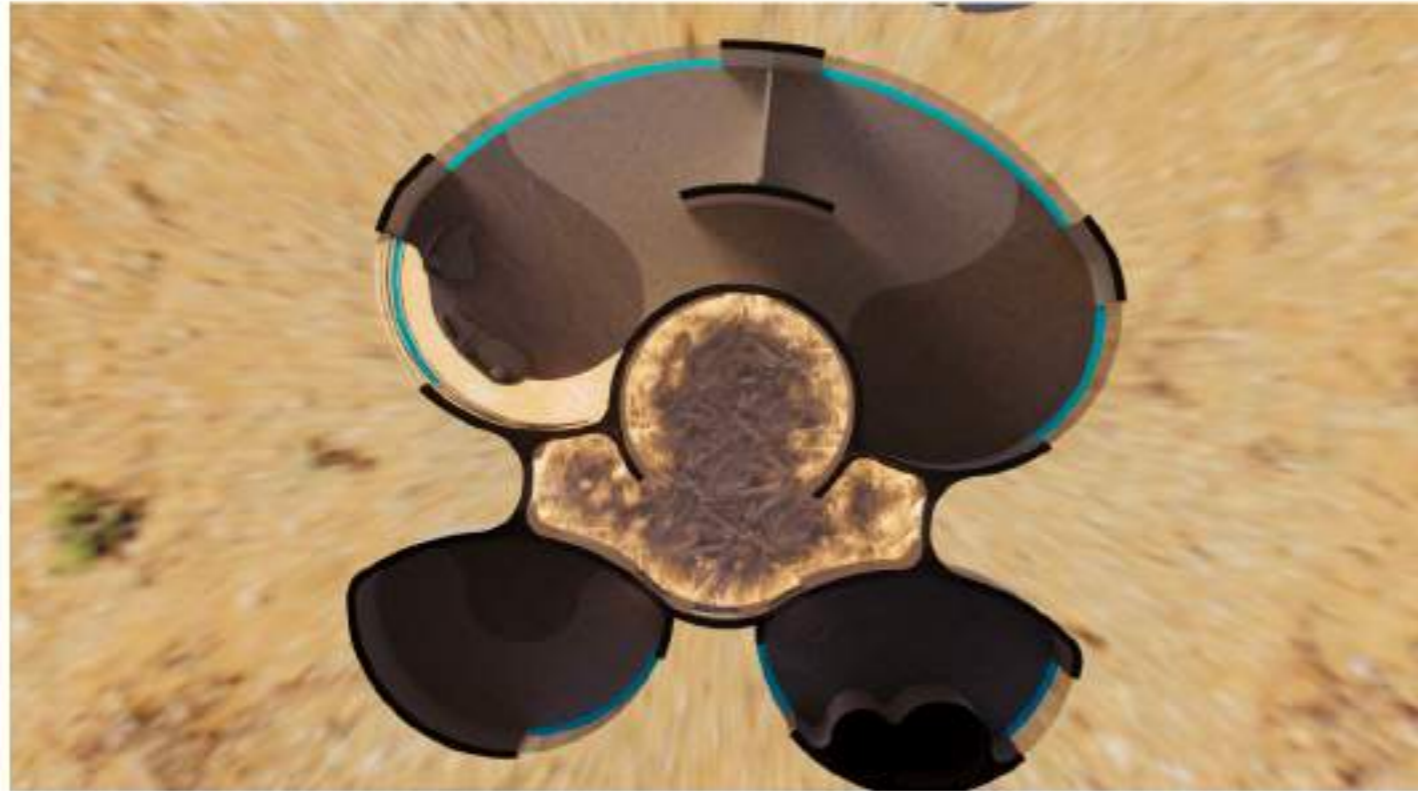
Technological innovation, offering a glimpse into a future where our living spaces are in perfect harmony with the mesmerizing patterns found in the natural world.



Drawing inspiration from the beauty and patterns of fractals in nature, the structure of my futuristic house emerged, I tried to harmoniously blend organic forms with the most recent technologies. I tried to design the outer structure of the house to mimic the self-similar patterns found in the branching structures of trees or the delicate spirals of seashells.

The exterior of this futuristic house would feature a façade composed of fractal-inspired elements, seamlessly merging with the surrounding environment. The structure might incorporate curvilinear lines, echoing the graceful curves seen in natural formations. The use of sustainable materials, such as bio-inspired textures or self-regulating smart surfaces, would further enhance the eco-friendly nature of this dwelling.

## FRACTALS GEOMETRY OF NATURE



The Fractal Geometry of Nature," is defined a fractal as "a rough or fragmented geometric shape that can be split into parts, each of which is (at least approximately) a reduced-size copy of the whole."

Most of the stuff we find in nature cannot be described by the idealized geometrical forms of Eudidean geometry. So if we want to start building computational designs with patterns beyond the simple shapes ellipse,, rectangles, and lines, it's necessary to use the concepts behind and techniques for simulating the geometry of nature: fractals.

I used the basic rule of coding to create the structure of the house, I took a fractal from nature in shape of the two rooms located at the bottom of the house and using a transformer to change the position and rotate it to apply again to create a new structure with the intial fractal finally this shape occurred.

My main purpose in creating this project is to look beyond the consepts that are learned and rooted in design industry and elevate them both idealogically and practically

In my futuristic house concept, the awe-inspiring beauty of fractals in nature serves as a guiding force, creating a space that is not only visually stunning but also sustainable, efficient, and harmonious with the environment. This concept brings together the best of organic design and technological innovation, offering a glimpse into a future where our living spaces are in perfect harmony with the mesmerizing patterns found in the natural world.



The underlying order and complexity of our world. Whether it is in mathematics, coding, or various other areas of reality, nature and the fractals in nature that create everything we see in nature offer invaluable insights, tools, and algorithms that enhance our understanding and enable us to explore the intricate tapestry of our universe.

TO REALISE THAT THE PHENOMENA WE SEE RESULT FROM THE COMPLEXITY OF THE INNER WORKINGS BETWEEN ATOMS IS DRAMATIC AND WONDERFUL BEYOND OUR UNDERSENDING.

Inside the house, the influence of fractals would be perceivable. From the layout of the rooms to the intricate details of the interior design, fractal principles would guide the creation of a harmonious and visually captivating living space. The floor plan could follow a fractal branching pattern, where each room branches out from a central hub, allowing for fluid movement and an organic flow between spaces. The incorporation of fractal-inspired lighting systems would create a dynamic and immersive ambiance. Imagine lights that mimic the soft glow of bioluminescent organisms or fixtures that cast intricate fractal patterns on the walls, bringing a sense of serenity and connection to the natural world.



## PROJECT DESCRIPTION

Moreover, this futuristic house concept would integrate advanced technology to enhance comfort, efficiency, and sustainability. Smart systems inspired by fractal optimization algorithms would regulate temperature, lighting, and energy consumption, ensuring optimal comfort while minimizing waste.

Additionally, the use of biomimetic design principles would enable the house to adapt and respond to its surroundings. Inspired by fractals in nature, the structure could have wellness capabilities, enabling it to create the perfect conditions for living, such as adapting to changing weather conditions.

The incorporation of vertical gardens and natural elements within the house would blur the boundaries between indoors and outdoors, creating a seamless transition and fostering a deep connection with nature. These green spaces also are designed using fractal principles, incorporating the self-similar patterns seen in plants and ecosystems.

In my futuristic house concept, the awe-inspiring beauty of fractals in nature serves as a guiding force, creating a space that is not only visually stunning but also sustainable, efficient, and harmonious with the environment. This concept brings together the best of organic design and technological innovation, offering a glimpse into a future where our living spaces are in perfect harmony with the mesmerizing patterns found in the natural world.





### SMART HOMEING SYSTEM

- > AI Generated Voice-activated assistants
- > Health monitoring systems
- > Home automation hubs
- > Virtual assistants
- > Energy management systems
- > Smart locks
- > Health monitoring systems
- > Transparent OLED screens
- > Mood changing ai system

### TECHNOLOGY



## INTEGRATING ART TECHNOLOGY AND DESIGN



### VIRTUAL NATURE

- > Use of natural rocks
- > 3D printed materials
- > Use of sustainable materials
- > Use of recyclable materials
- > Eco friendly materials
- > Use of dandelion light installation
- > Hypersn natural elements holograms
- > Tree trunk furniture
- > Natural scents

### NATURE



# LOCATION AND PURPOSE

HUMAN WELLNESS



## DESIGNED FOR URBAN AREAS AND HOSPITALS

The aim of the project is to provide nature like virtual elements for people who does not have the alligibility to nature and provide Access for all: Virtual nature provides an opportunity for people who are unable to access real natural environments, such as those with physical disabilities, limited mobility, patients in the hospitals or people with urban accomandation. It allows them to experience the benefits of nature virtually, promoting inclusivity and equal access to nature-based experiences.



## SOME BENEFITS OF THE SMART HOMING SYSTEMS FOR THE CLIENTS AND PATIENTS WHO DOES NOT HAVE THE ACSES TO REAL NATURE

- >Replaces and provides a efficient and affordable solution for home health aide
- >Increased independence for the patient
- >Enhances safety with devices that can monitor the home environment and alert caregivers or emergency services in case of an emergency.
- >Improved communication for the patient
- >Better medication management
- >Customized care
- >Increased comfort
- >Reduced caregiver burden
- > Mental health support
- > Stress reduction



As much as virtual nature can be used to provide benefits for human wellness in living envoirement it is not possible to replace regular interaction with real natural environments. The physical, sensory, and multisensory experiences of real nature provide unique benefits that virtual nature cannot fully replicate. Virtual nature should be seen as a complementary tool rather than a complete substitute for genuine nature experiences.

# CONCEPT VISUALIZATION

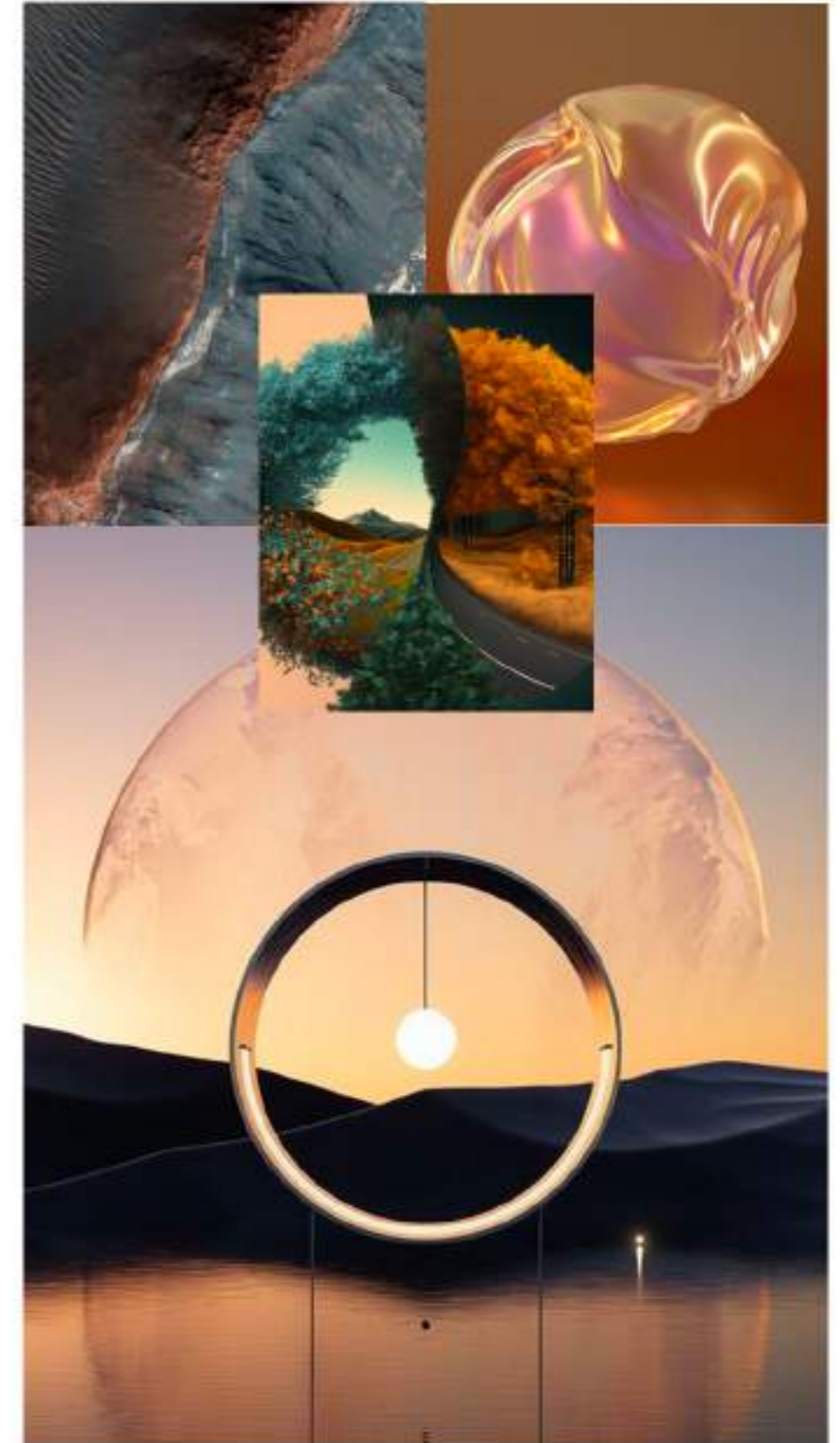
INTEGRATING NATURE WITH TECHNOLOGY

## LIVING ENVIRONMENT



In my work I tried to explore a new understanding of physicality of reality in a new line of sight with augmentation of reality through artificial intelligence and virtual elements, questioning reality through the existentialist approach of pursuing the essence of an existent no longer in the physicality, but through the manifestation of the principle governing the succession of its infinite appearances. Using five senses (perception tools of humanity) I tried to bring nature and technology working with each other in synchronicity without crossing each other's boundaries.

The floors in the bedroom and entrance will be made out of onyx marble. Underneath the onyx marble a layer of LED lighting will be placed to create the futuristic aesthetic of the main areas. The marble will have a glossy finish to give definition to the space.



# CONCEPT VISUALIZATION



## SMART HOMING TECHNOLOGIES

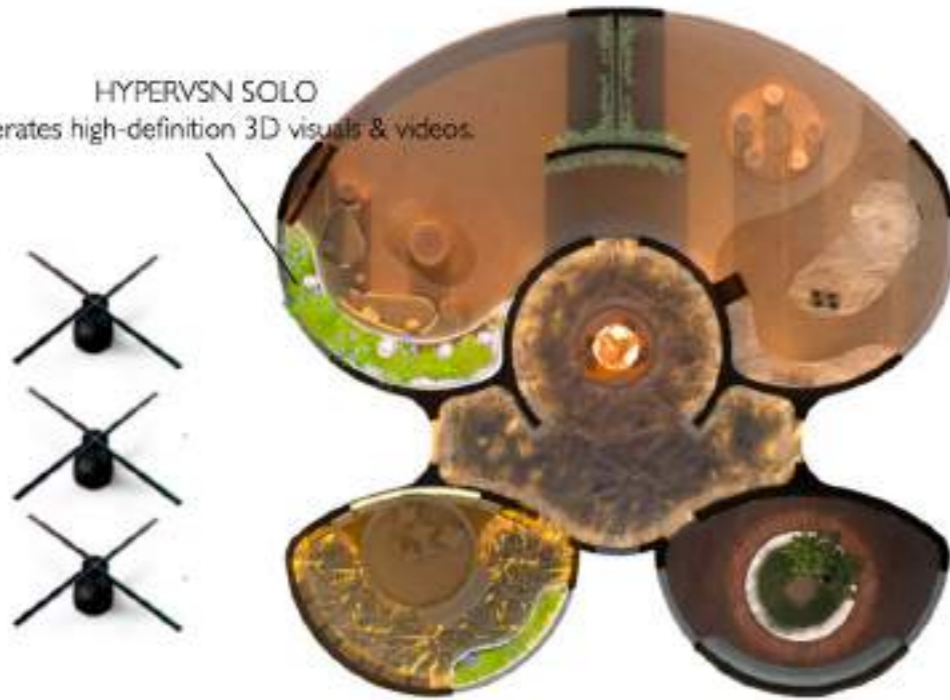
- > AI Generated Voice-activated assistants
- > Health monitoring systems
- > Home automation hubs
- > Virtual assistants
- > Energy management systems
- > Smart locks
- > Health monitoring systems
- > Smart speakers adjusted for the environment

## HYPERVSN SYSTEMS

- > adjustable hypervsn system according to customers needs and likes

# PLACEMENT OF THE HYPERVSN TECHNOLOGY

HYPERVSN SOLO  
Generates high-definition 3D visuals & videos.



HYPERVSN SOLO  
Generates high-definition 3D visuals & videos, placed on a mirror surface to create a depth in the space. The holograms will be customisable. Nature elements plants and trees are the main focus of the system, to create a nature integrated space.

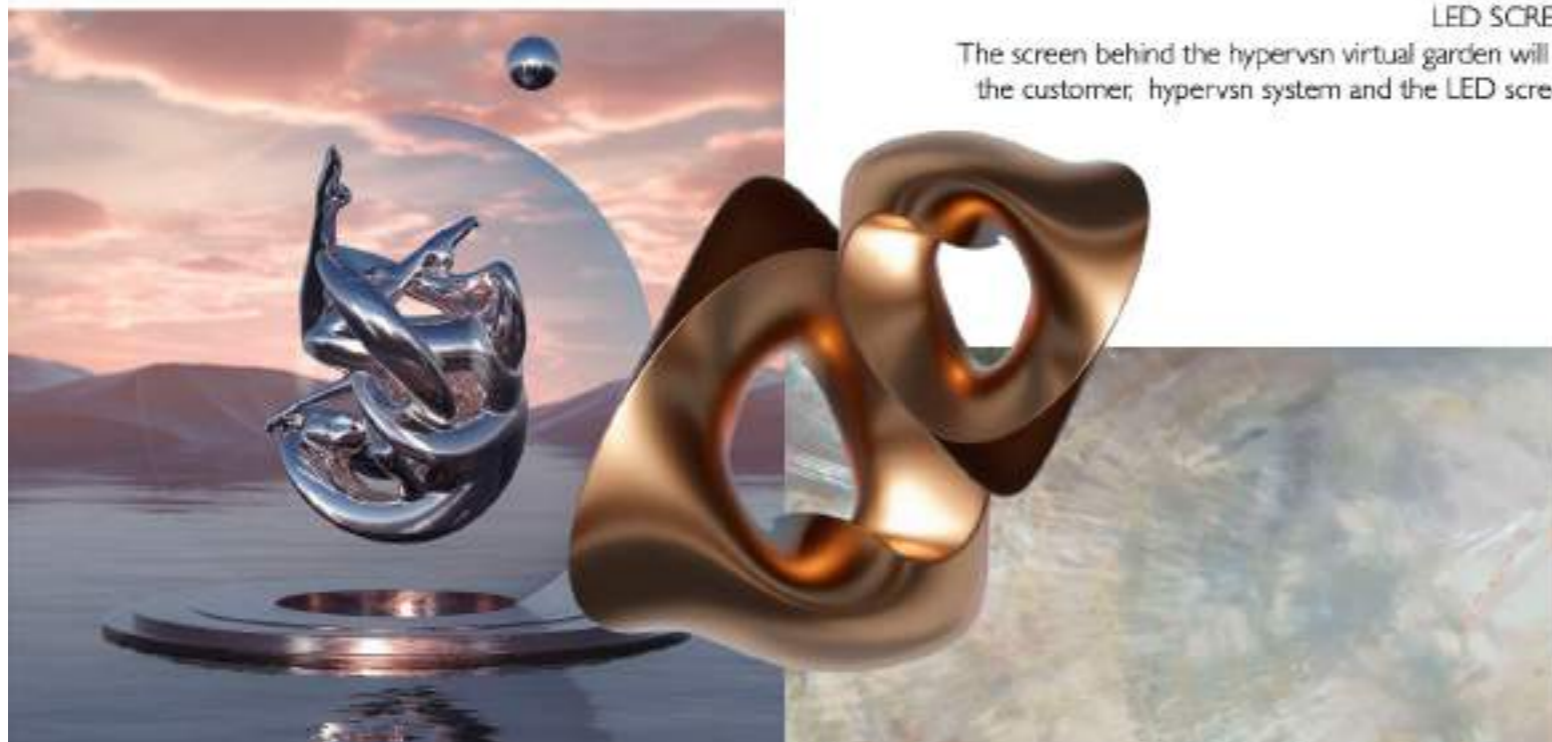
TRANSFORMABLE  
LED screen



TRANSFORMABLE  
With hypervsn technology

LED SCREEN

The screen behind the hypervsn virtual garden will be transformable according to the choice of the customer, hypervsn system and the LED screens will be working coherent to each other.



# CONCEPT VISUALIZATION WINDOW TECHNOLOGY



## NEW WINDOW TECHNOLOGY

Introducing a new technology for urban area apartment windows, this new innovation transforms the traditional cityscape view into an upgraded and nature-integrated experience. By utilizing OLED screens embedded within the windows, this technology seamlessly blends the digital world with the physical environment. Instead of a static view, residents can now enjoy dynamic and immersive scenes of lush forests, serene waterfalls, or breathtaking landscapes right from the comfort of their apartments.

These OLED screens replicate the vibrant colors, depth, and realism of nature, creating a sense of tranquility and connection with the outdoors. The advanced display technology allows for precise control over lighting and shading, mimicking the changing patterns of natural light throughout the day. The result is a window that not only showcases stunning visuals but also enhances the overall ambiance of the living space.

Furthermore, this technology offers customization options, allowing residents to choose from a variety of nature-inspired themes or even upload their own images to create a personal connection to their surroundings. Whether it's a peaceful beach sunset or a majestic mountain range, the upgraded view provides an escape from the urban hustle and bustle, fostering a sense of calm and well-being.

In addition to the aesthetic benefits, these OLED windows offer practical advantages. They can be used to regulate privacy by adjusting opacity levels, providing a balance between enjoying the view and maintaining personal space. Furthermore, the screens can display real-time weather updates, news feeds, or digital artwork, adding versatility to the living space and making the windows an interactive and dynamic part of the apartment.

This technology not only enhances the visual experience of urban living but also brings the soothing and rejuvenating effects of nature into the heart of the city. By seamlessly integrating OLED screens onto apartment windows, residents can now enjoy a unique blend of urban convenience and the tranquility of nature, transforming their living spaces into immersive havens amidst the bustling cityscape.



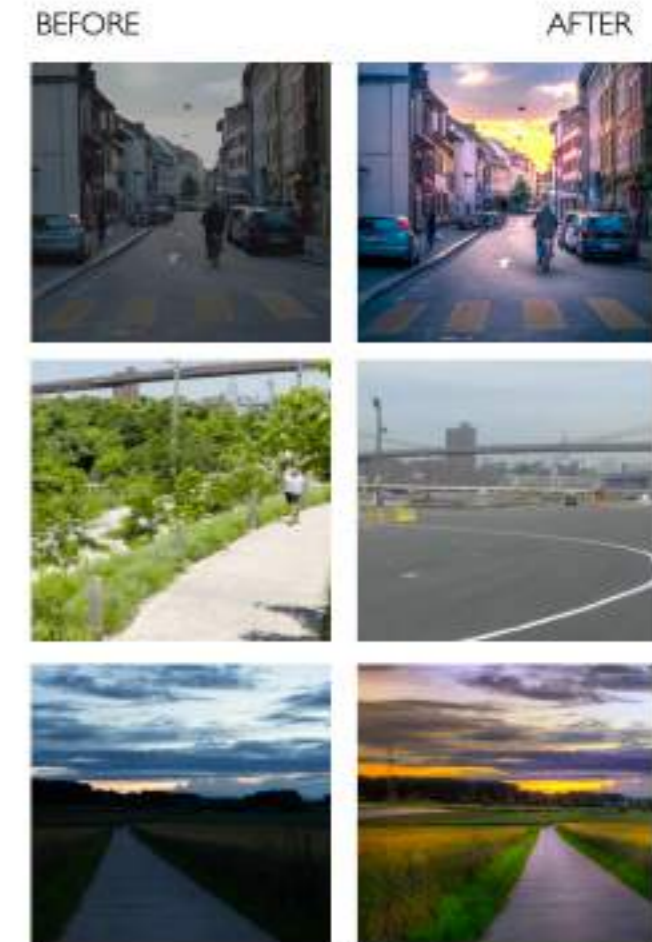
## THE NEW WINDOW TECHNOLOGY

OLED TRANSPARENT SCREEN

TURNING THE EXISTING VIEW INTO A UPGRADED,  
NATURE-INTEGRATED VIEW ACCORDING TO THE  
CLIENT'S NEEDS AND LIKES



EXAMPLES OF BEFORE AND AFTER VIEWS OF THE OLED TRANSPARENT SCREEN INSTALLED ON THE WINDOWS  
CHANGING THE EXISTING URBAN VIEW



WINDOW TECHNOLOGY  
OLED TRANSPARENT LED SCREENS  
Transparent LED displays or OLED glass displays

Indoor high-definition transparent display

CLEAR SERIES

> Transparent LED screen the clear series has evolved from the conventional indoor LED display. By transforming the window display module into a module with certain transparency, the entire screen has some transparency. It retains the higher resolution of the indoor display.

> The display module is constructed with very thin PCB strips. All the pixels are distributed on the horizontal strips.

> As an indoor transparent LED display, it can be installed behind any window or glass wall and can be created

**It creates the opportunity to create a video screen without blocking the line of sight.**



BEFORE

AFTER



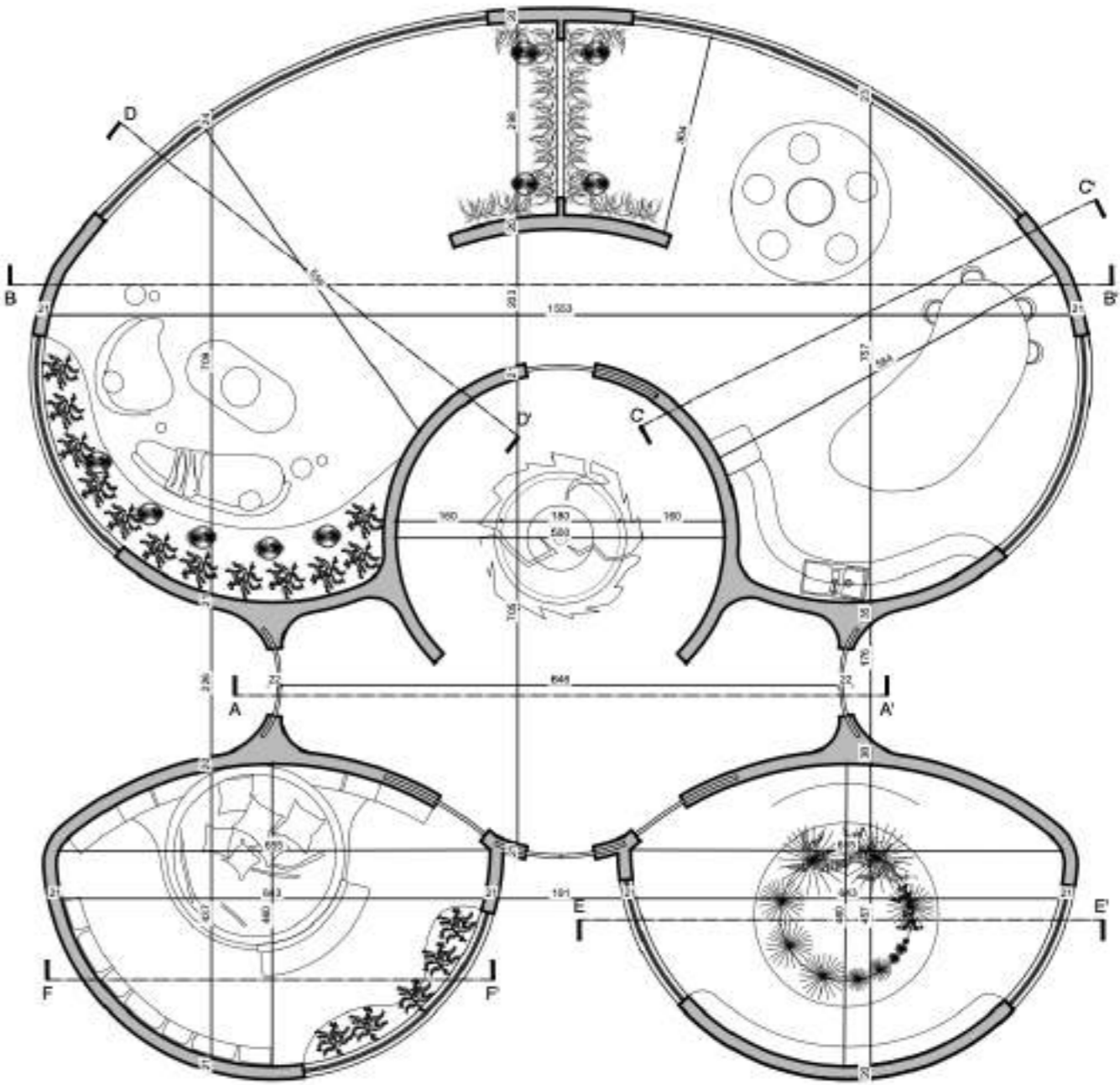
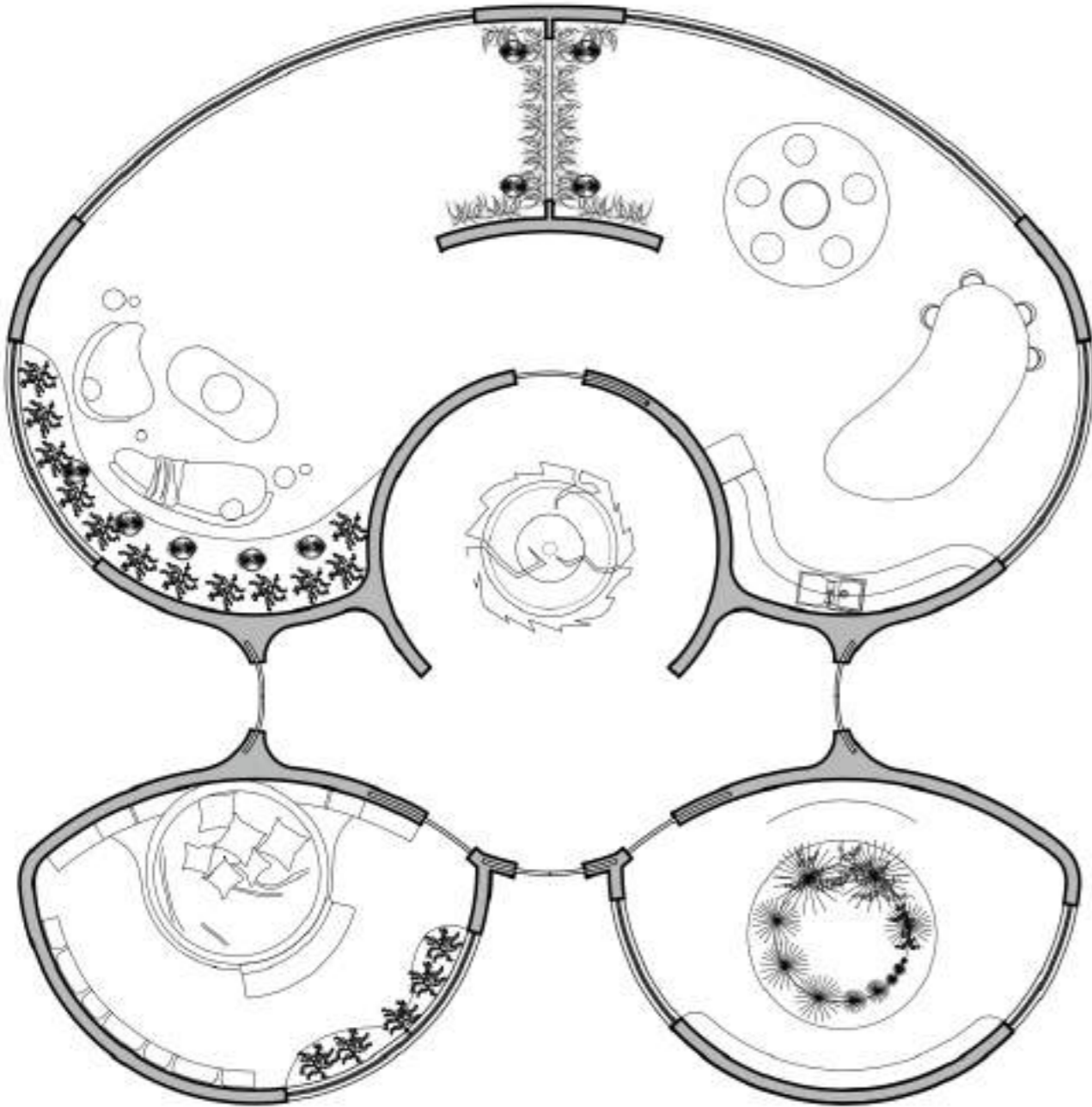
Model	S80		F810	
LED	SMD2020		SMD2020	
Cabinet size	500x1200	1000x1200	500x1200	1000x1200
Pixel Pitch	W0.80x7.80		W1.0x7.80	
Cabinet Resolution	62x142	124x142	48x110	96x110
Resolution	3804	17603	5568	11136
Brightness	3000-3500		3000-3500	
Refresh Rate	≥3040		≥3040	
Transparency	80%		80%	
Max Power	800W		800W	
Avg Power	280W		250W	
ingress Protection	IP65		IP65	



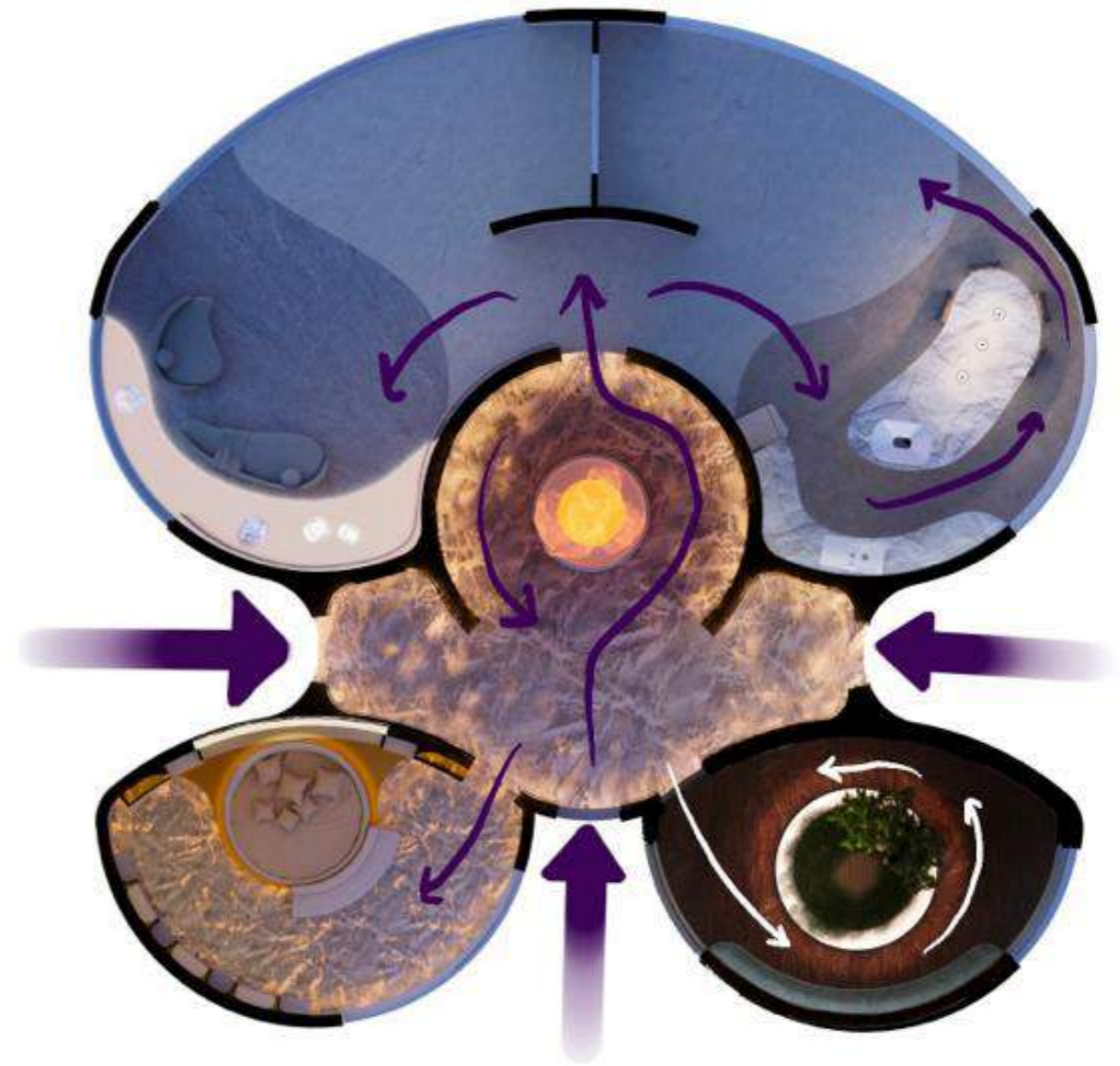
# COLORED PLAN



# PROJECT PLAN



# ZONING AND CIRCULATION



# MATERIAL CHART



>HYPERVSN System



Salvatori, Rain | Natural stone 3D Wall Cladding | By Piero Lissoni



ABK | SENSI ROMA | Full-body porcelain stoneware floor tiles | Collection Sensi



ONYX MARBLE (transparency, light see through)  
GLASS FLOORING with glossy finish

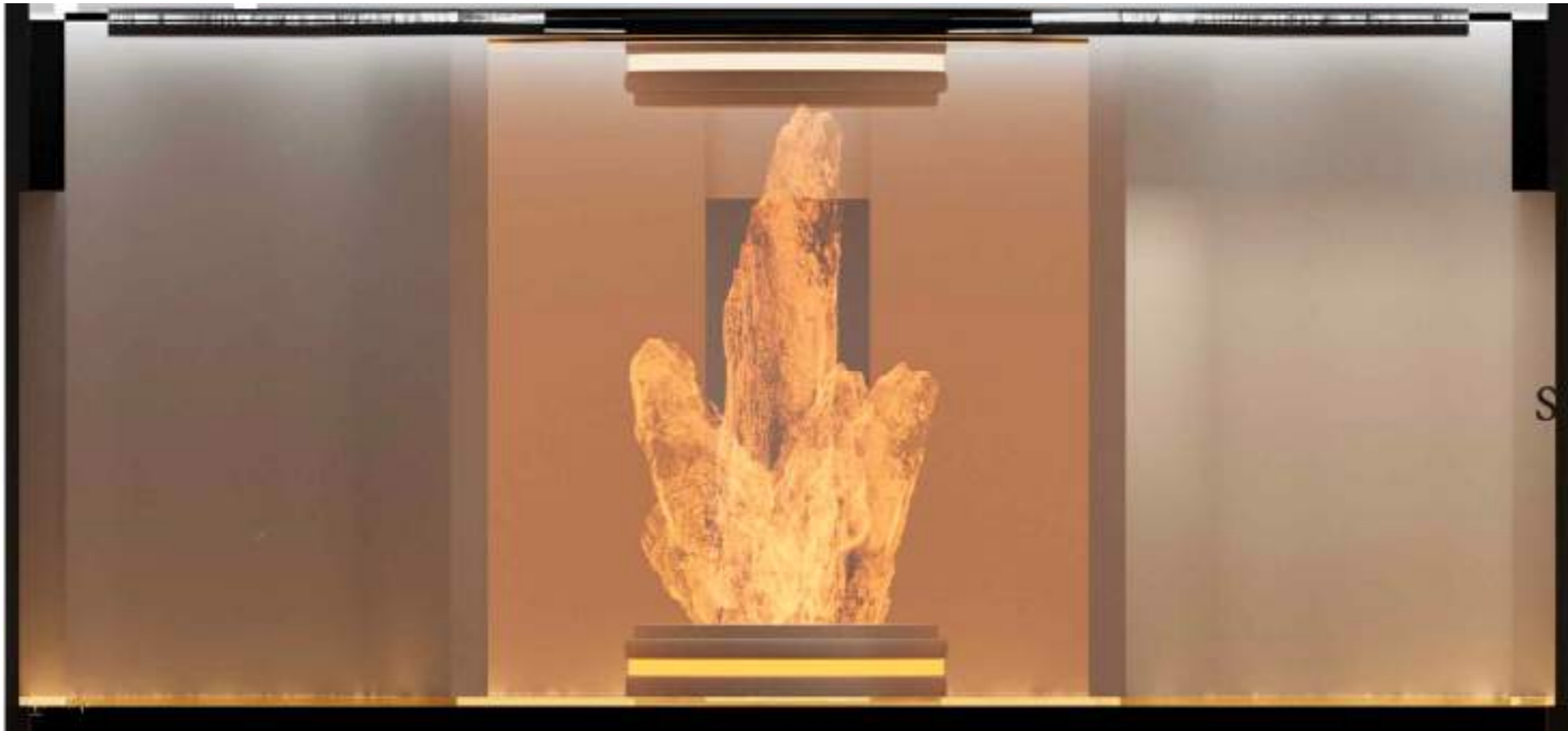


La Sartoria del Marmo by Lombardi Marmi  
PIATTO ULISSE IN MARMO VERDE DEL GUATEMALA

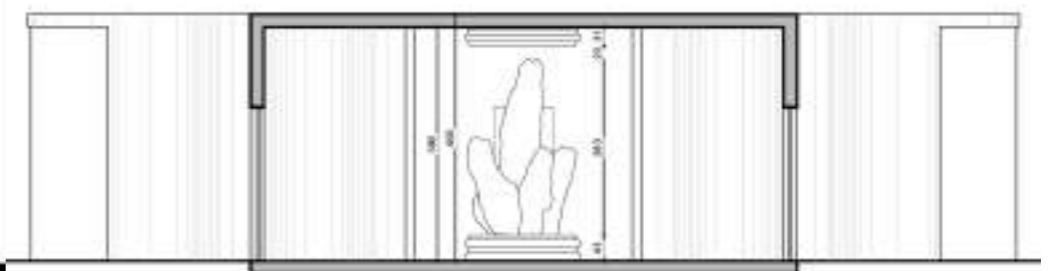
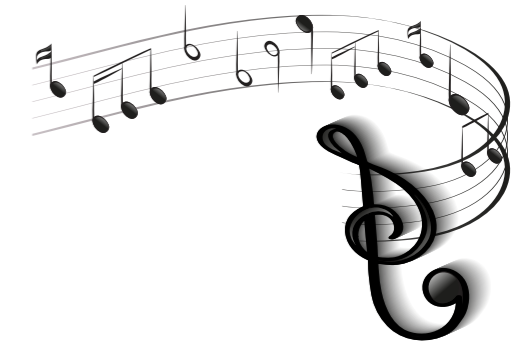
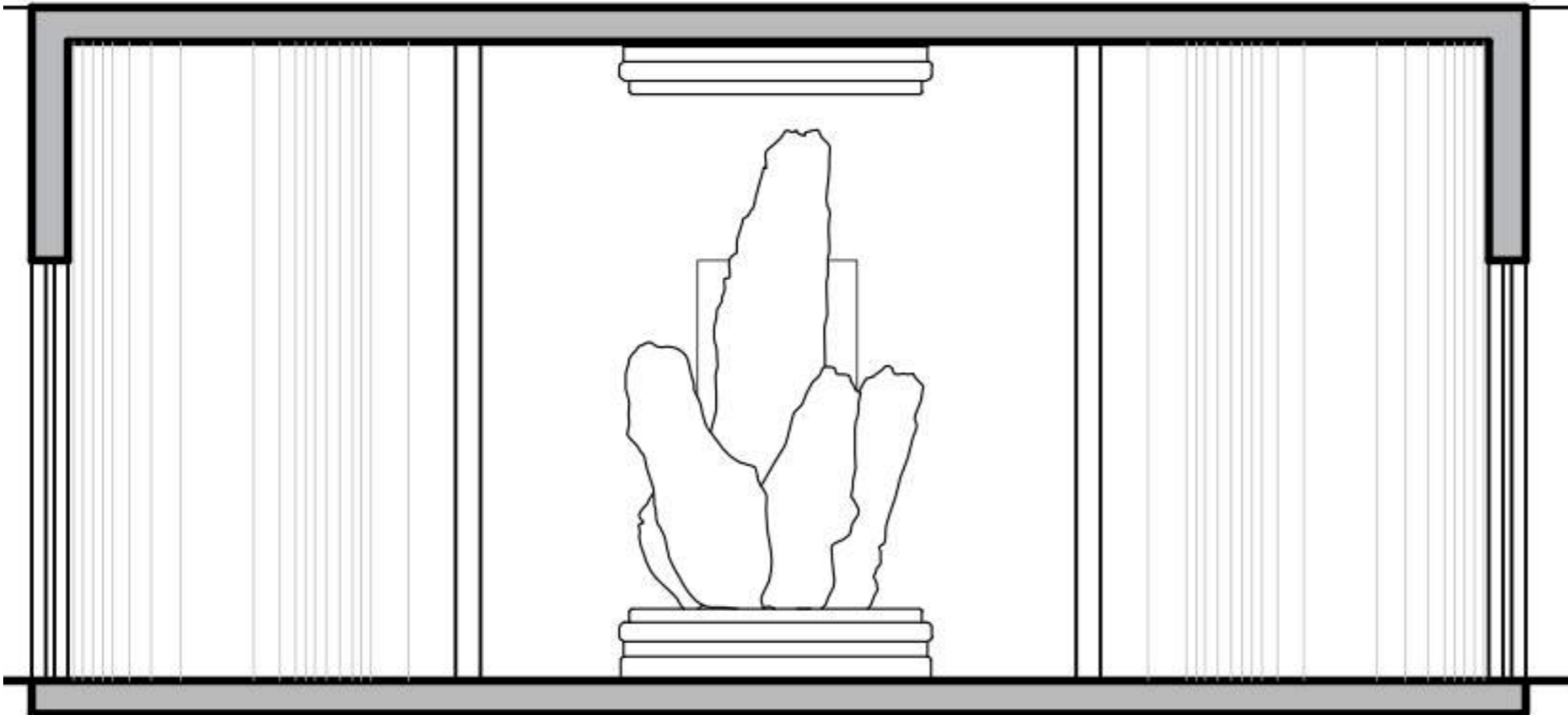


SCALE 1:100

# ENTRANCE



*Adjustable voice and music system Changable visuals with hypvsn*



# ENTRANCE



>HYPERVSN Hypervision technology

>DAIKIN

UVC LED ROOM AIR PURIFIER With Built-In Humidifier

>HEPA (High-Efficiency Particulate Air) FILTERS

>UV-C LIGHT PURIFIERS

>MOOOI SMART HOME FRAGRANCE

>Customizable scent profiles.

Efficient and powerful diffusion.

Compatible with Amazon Alexa, Google Assistant, and IFTTT.

The Moooi is a connected aroma diffuser that integrates with your smart home devices to automatically fill your living space with customized scents.



# ENTRANCE



## FLOORING



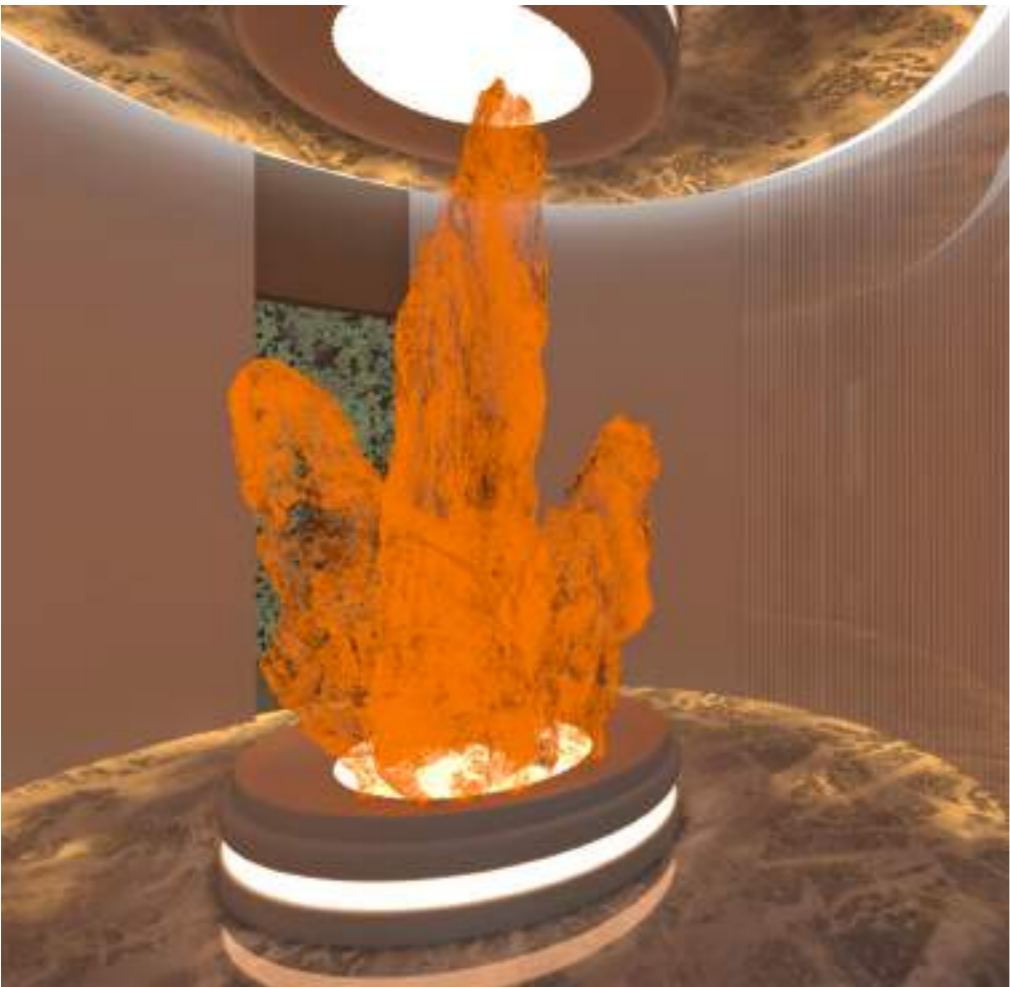
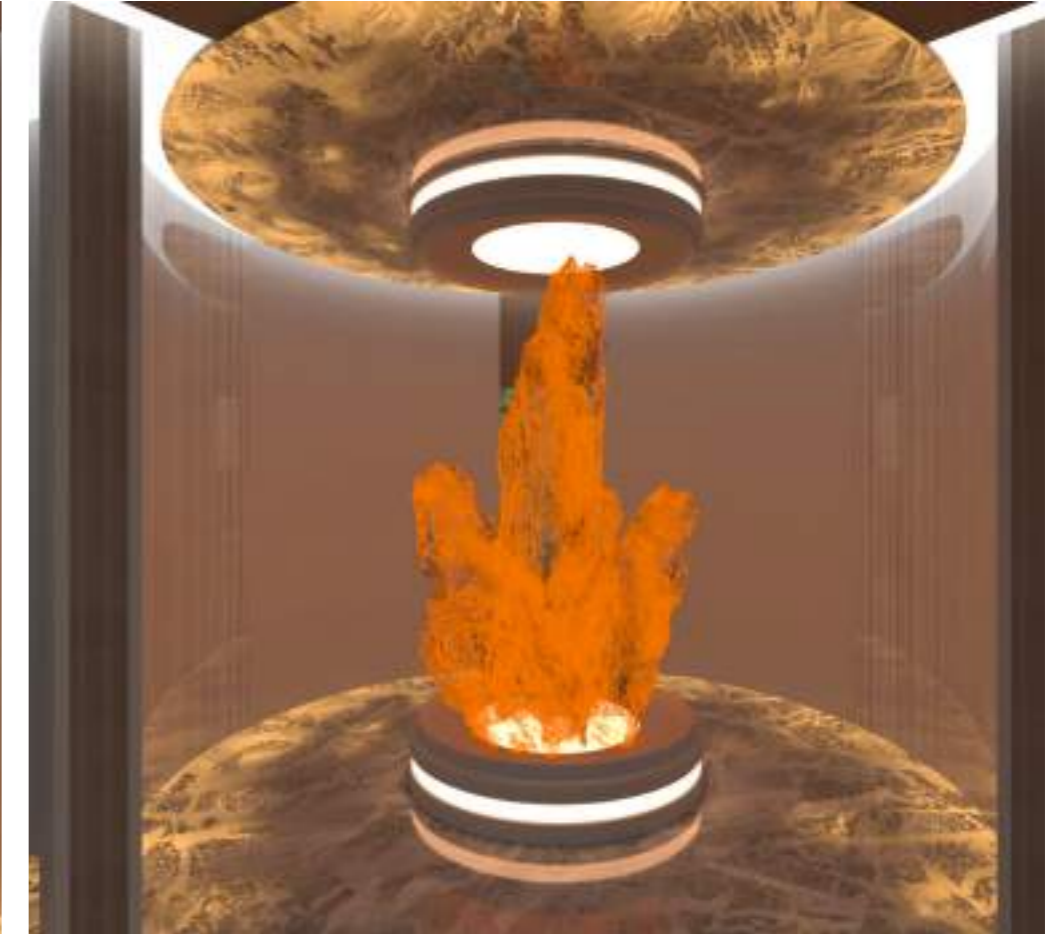
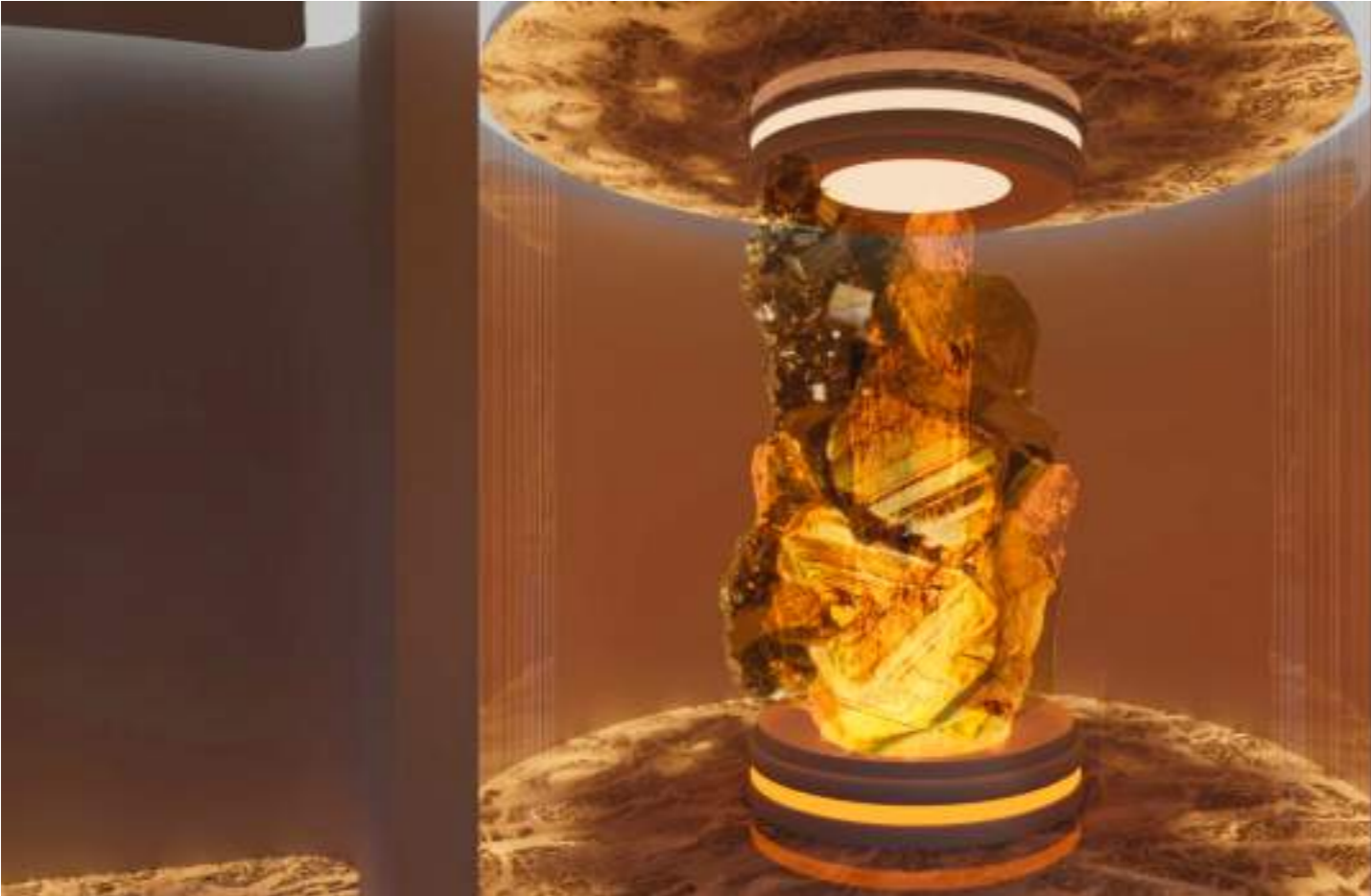
LED LIGHT PANEL  
ONYX MARBLE | transparency, light see trough  
GLASS FLOORING | glossy finish

## WALLS



Salvatori, Rain | Natural stone 3D Wall Cladding | By Piero Lisson Clean beige wall paint | Resin finish

# ENTRANCE



# CONNECTING TO THE NATURE

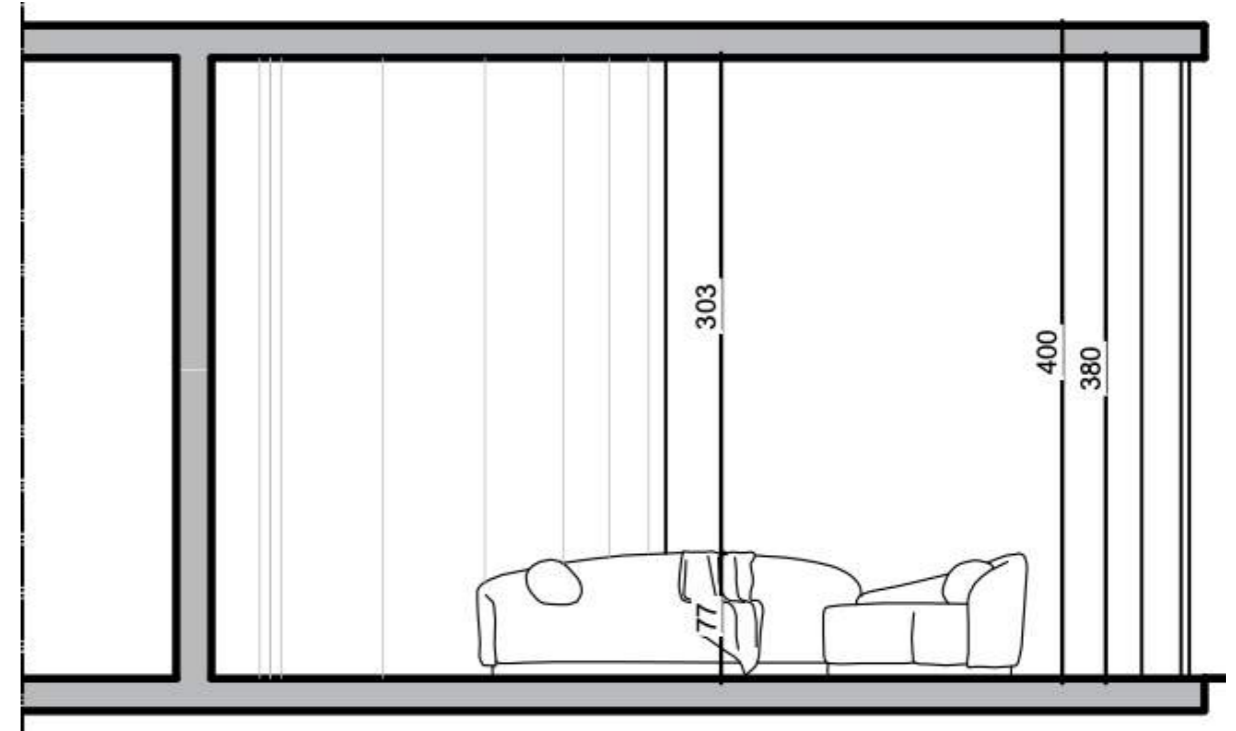
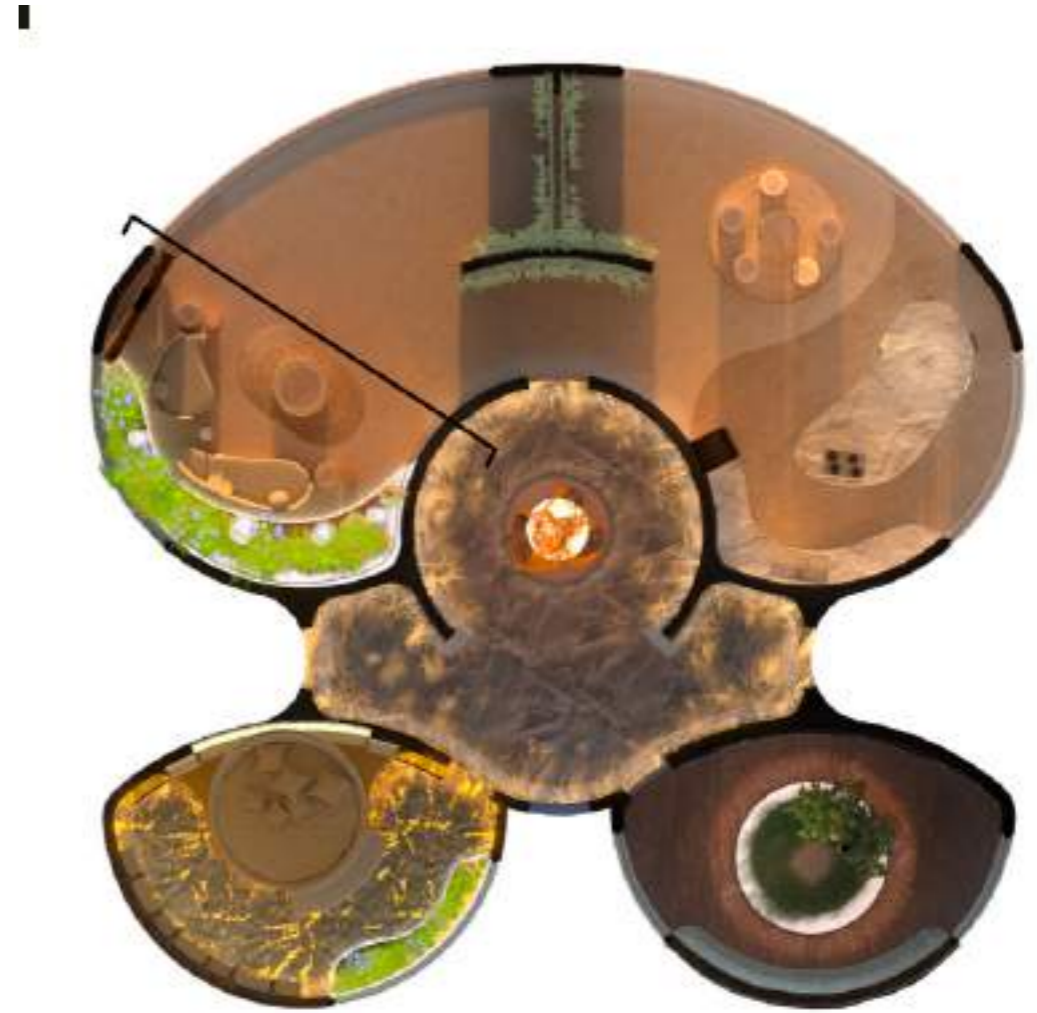
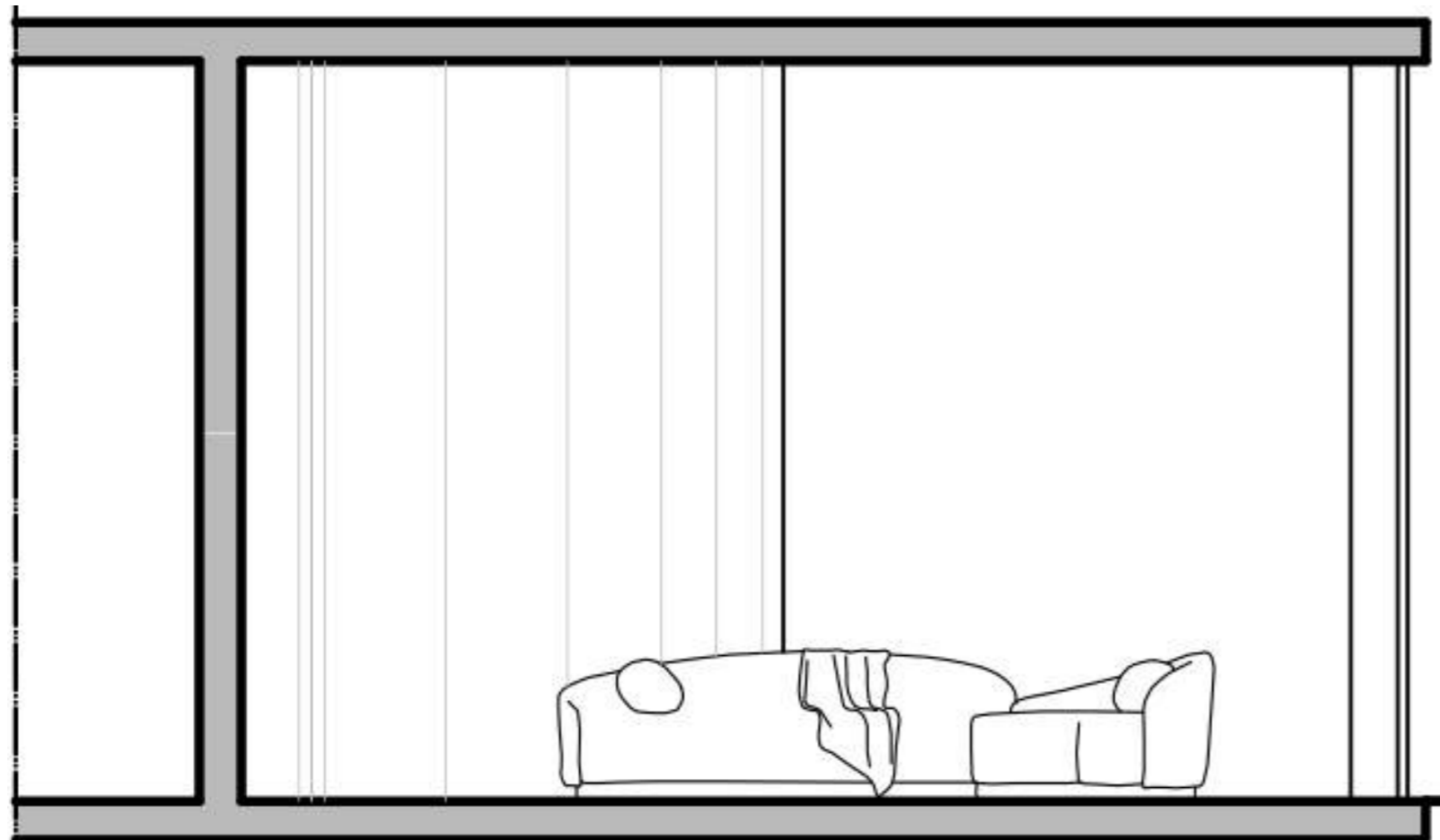
TRANSFORMABLE VIRTUAL NATURE AREA



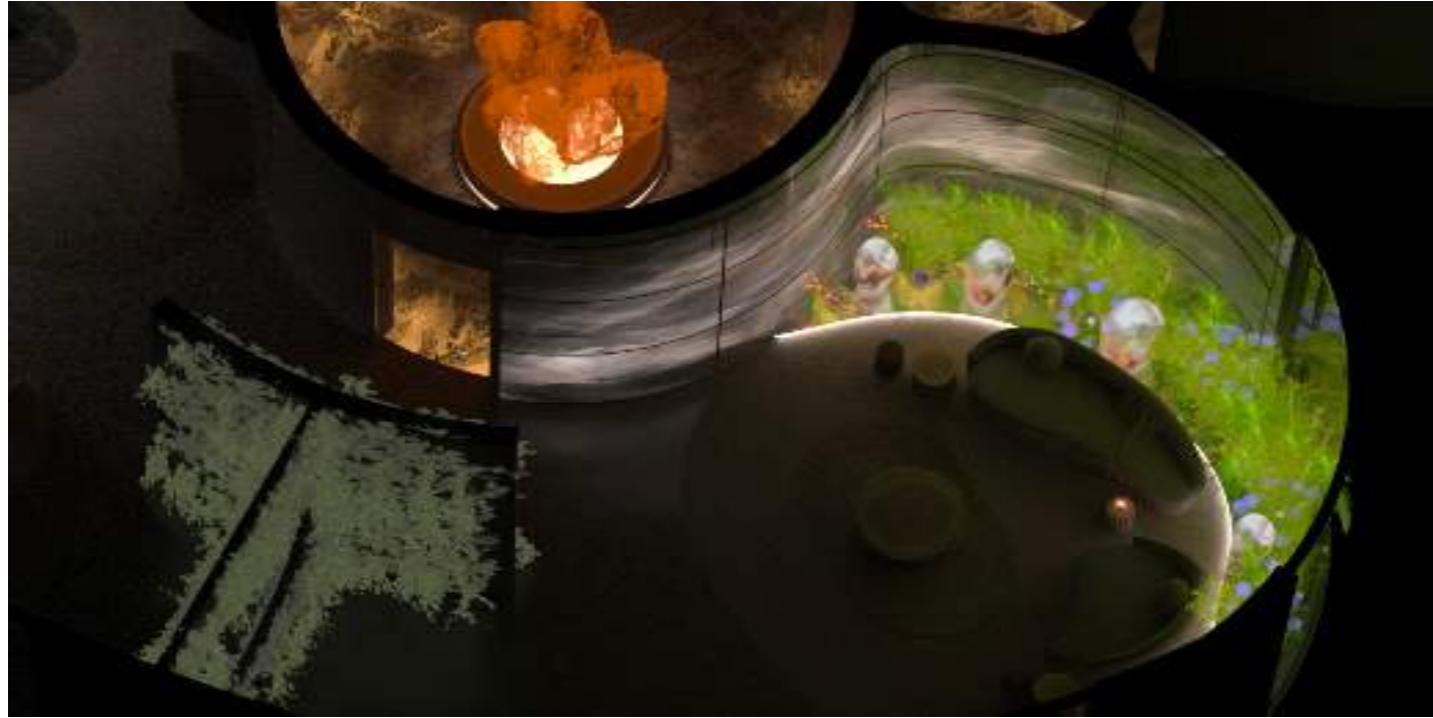
Riva 1920 | ECO | Low round cedarwood coffee table  
DE CASTELLI | AIRFRAME | Open metal bookcase | Designer Pio & Tito Toso  
Vintage Tessellated | Stone and Ball Coffee Table  
Moroso | PEBBLE RUBBLE | Sectional modular sofa | Designer FRONT

SCALE 1:100

**COLORED SECTION** LIVINGROOM



# LIVINGROOM

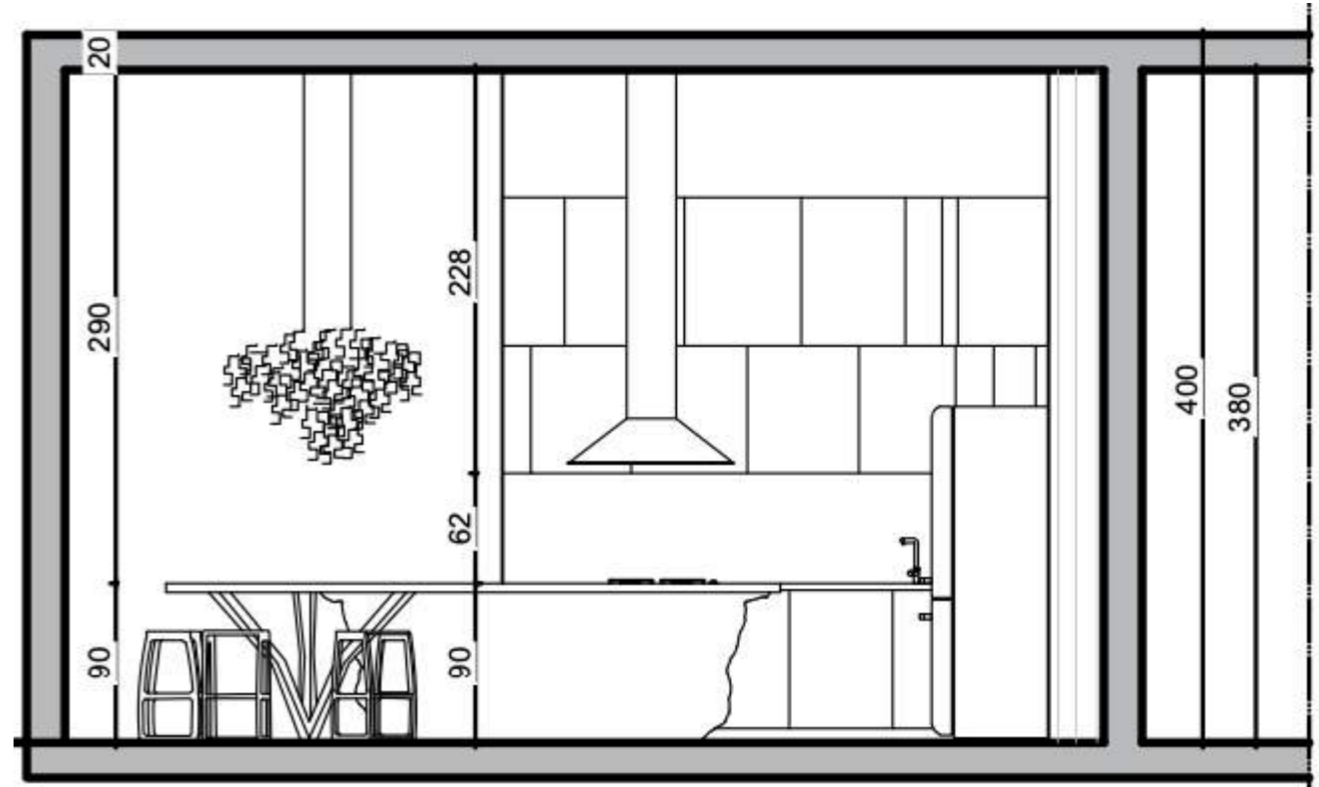
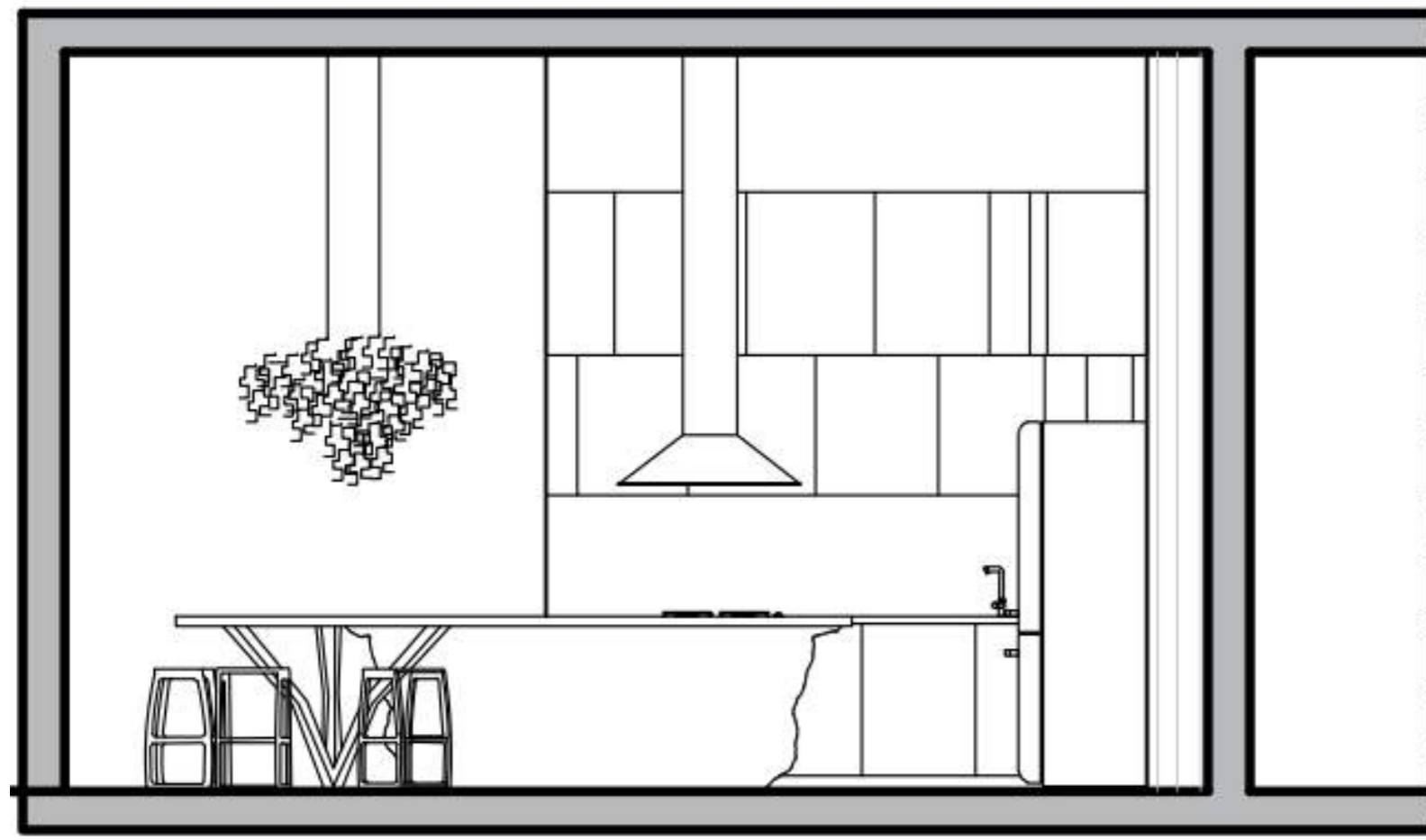


# LIVINGROOM



SCALE 1:100

# COLORED SECTION KITCHEN



# KITCHEN



# KITCHEN



With Fragile Future III, DRIFT fuses nature and technology into a multi-disciplinary light sculpture. The project is a critical yet utopian vision on the future of our planet, wherein two seemingly opposite evolutions have made a pact to survive.

The sculpture consists of three-dimensional bronze electrical circuits connected to light-emitting dandelions. The sculpture can go on endlessly as new circuits can always be added. It contains real dandelion seeds that were picked by hand and glued, seed by seed, to LED lights. This labour-intensive process is a clear statement against mass production and throwaway culture. Are the rapid technological developments of our age really more advanced than the evolution of nature, of which the dandelion is such a transient and symbolic example? And how could those two evolve together?

The light installation proposes a vision of future using its own way in distinct mix between high-tech and poetic imagery in which light functions as a symbolic and emotional ingredient. Fragile Future III conveys, and elicits, emotion while simultaneously referring to the fact that light lies at the basis of all life.



# KITCHEN



# KITCHEN

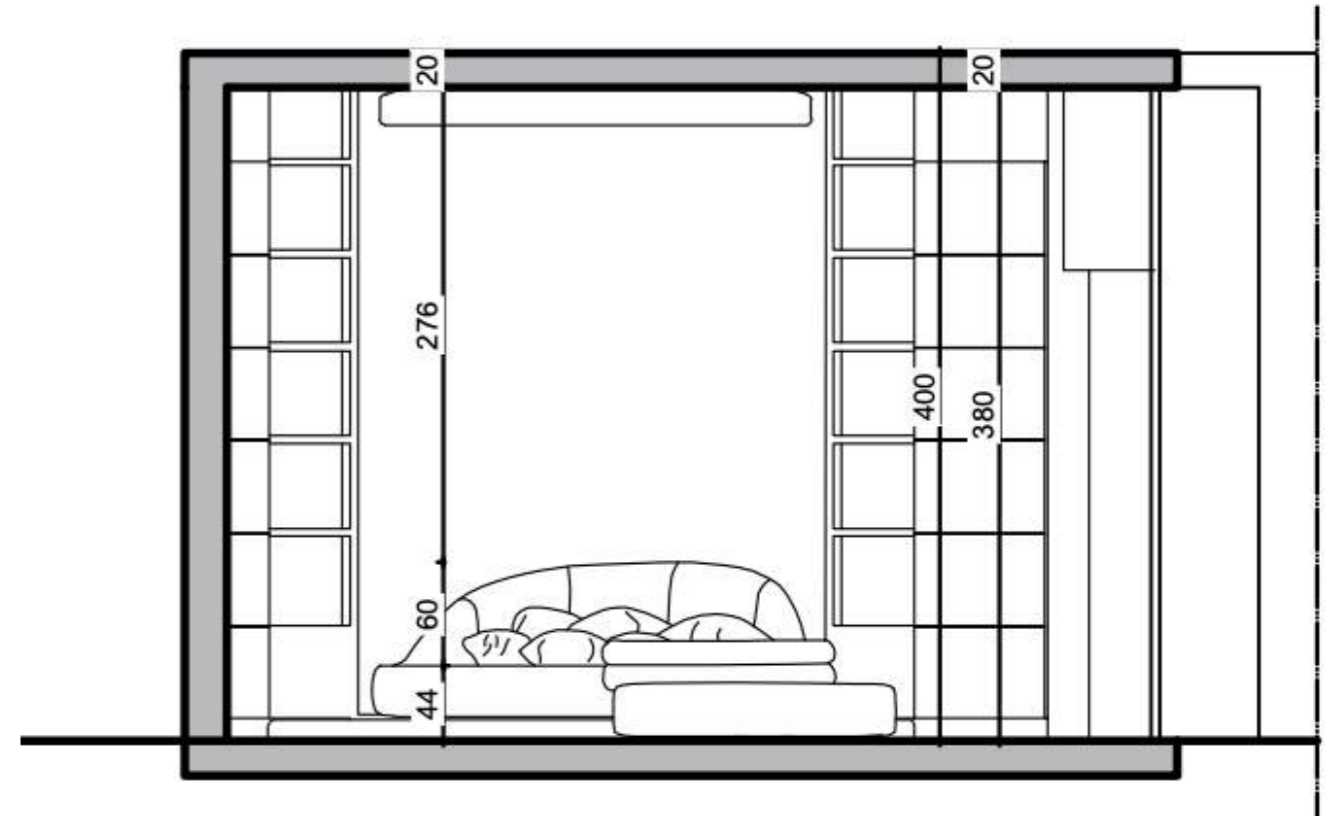
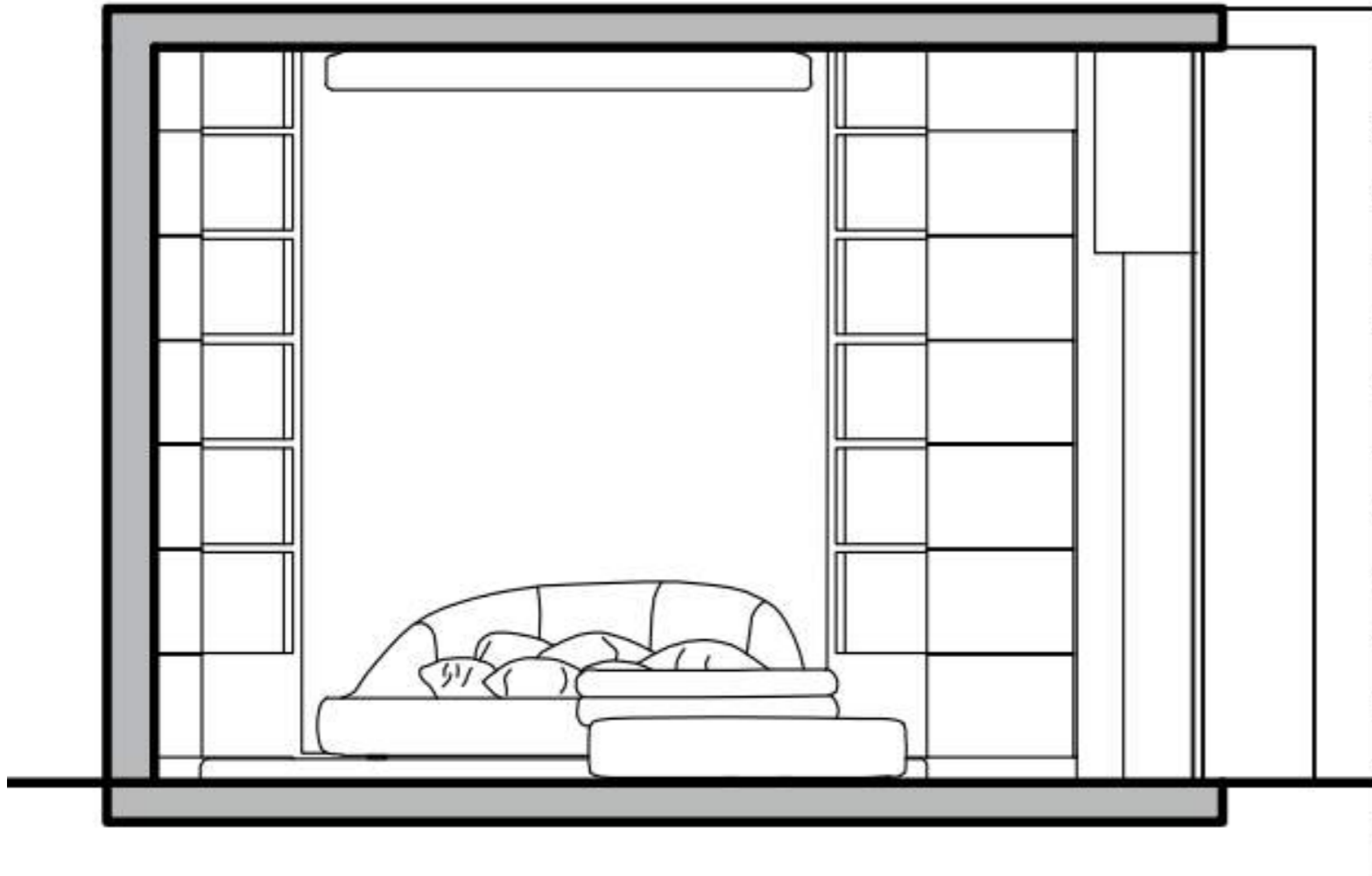
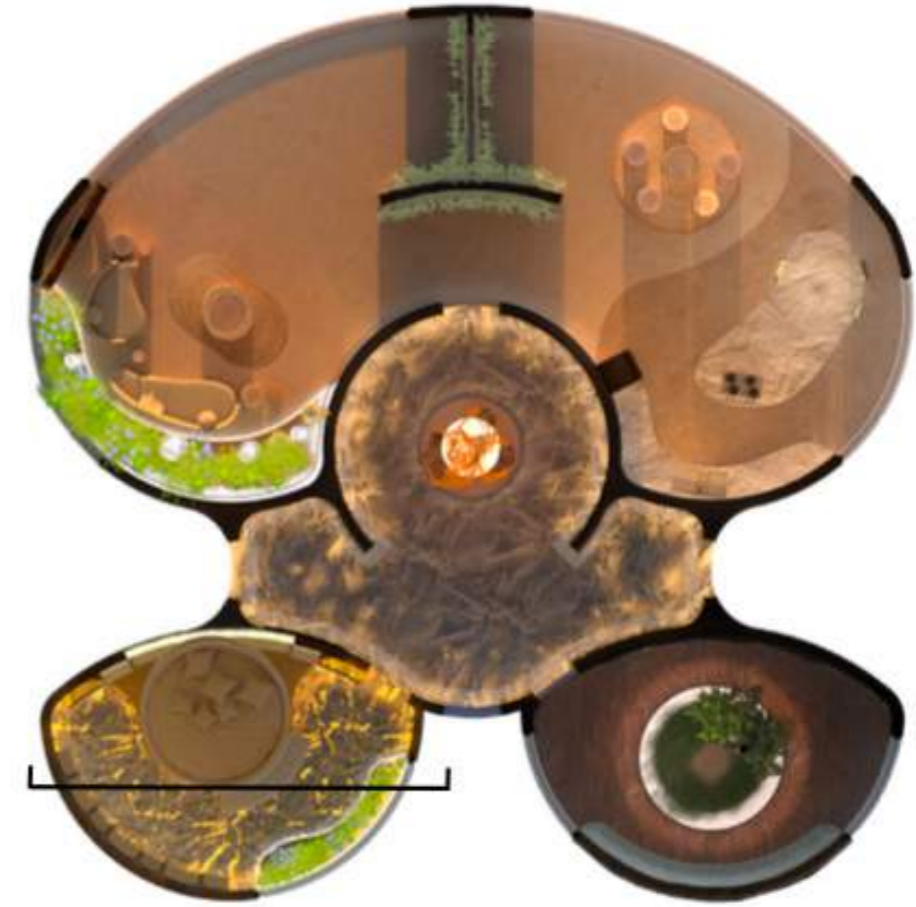


# KITCHEN



SCALE 1:100

# COLORED SECTION BEDROOM



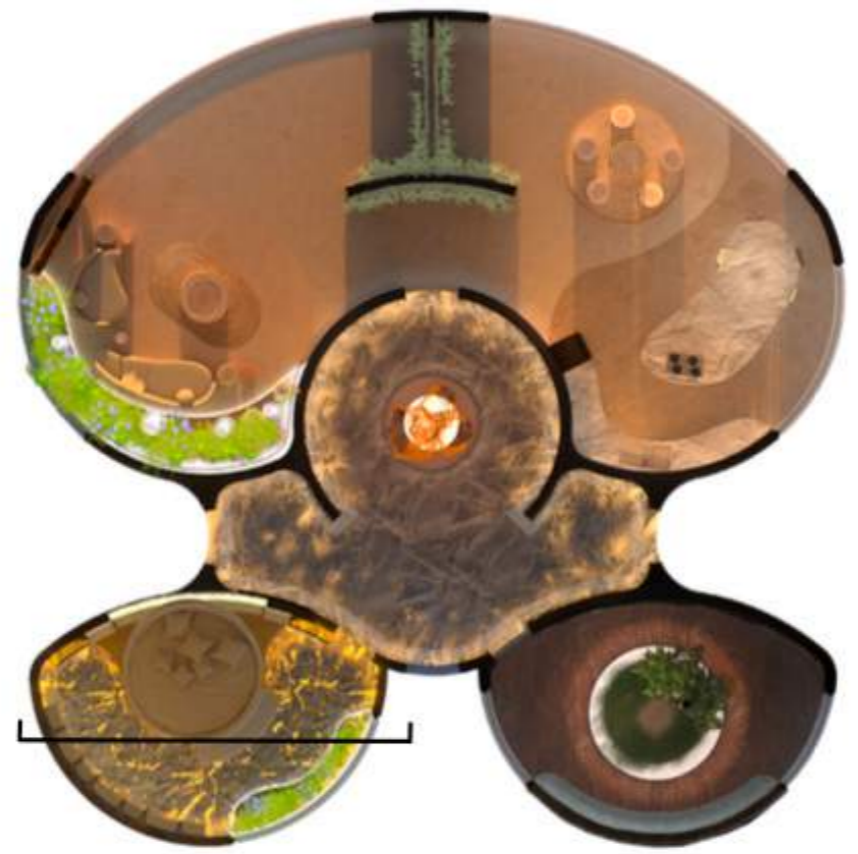
# BEDROOM



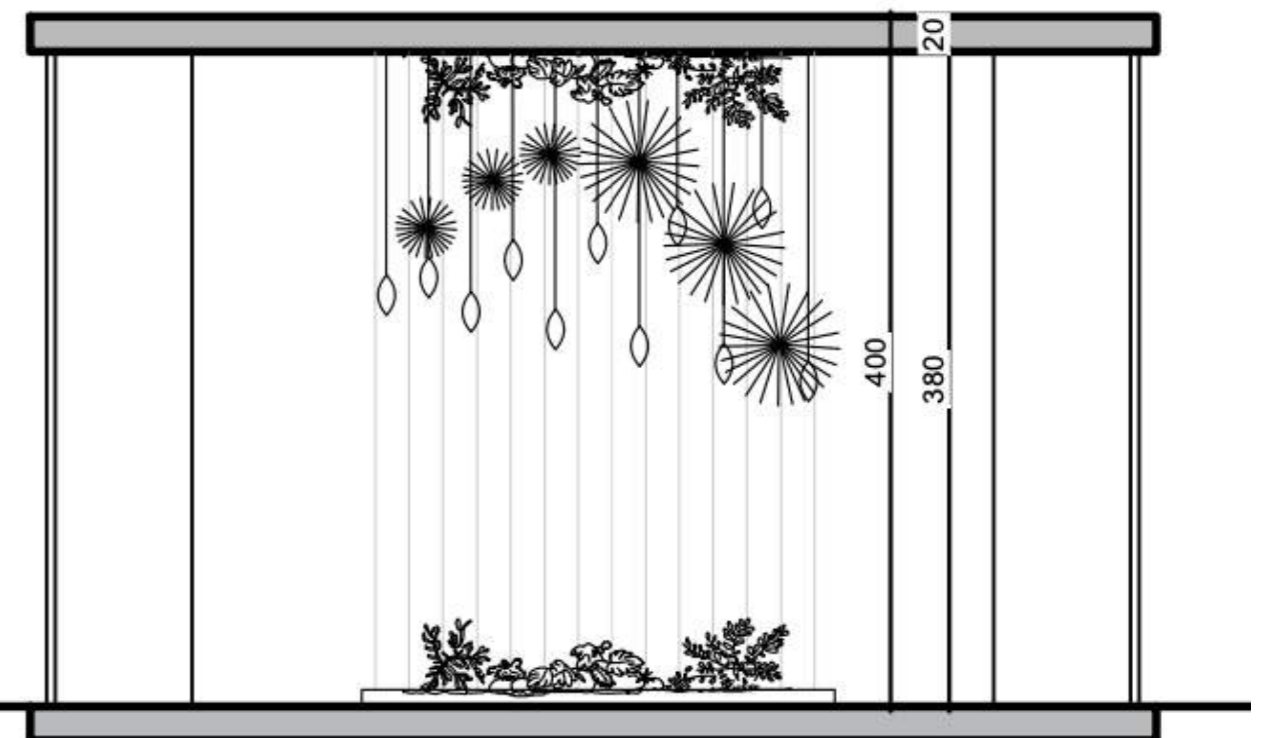
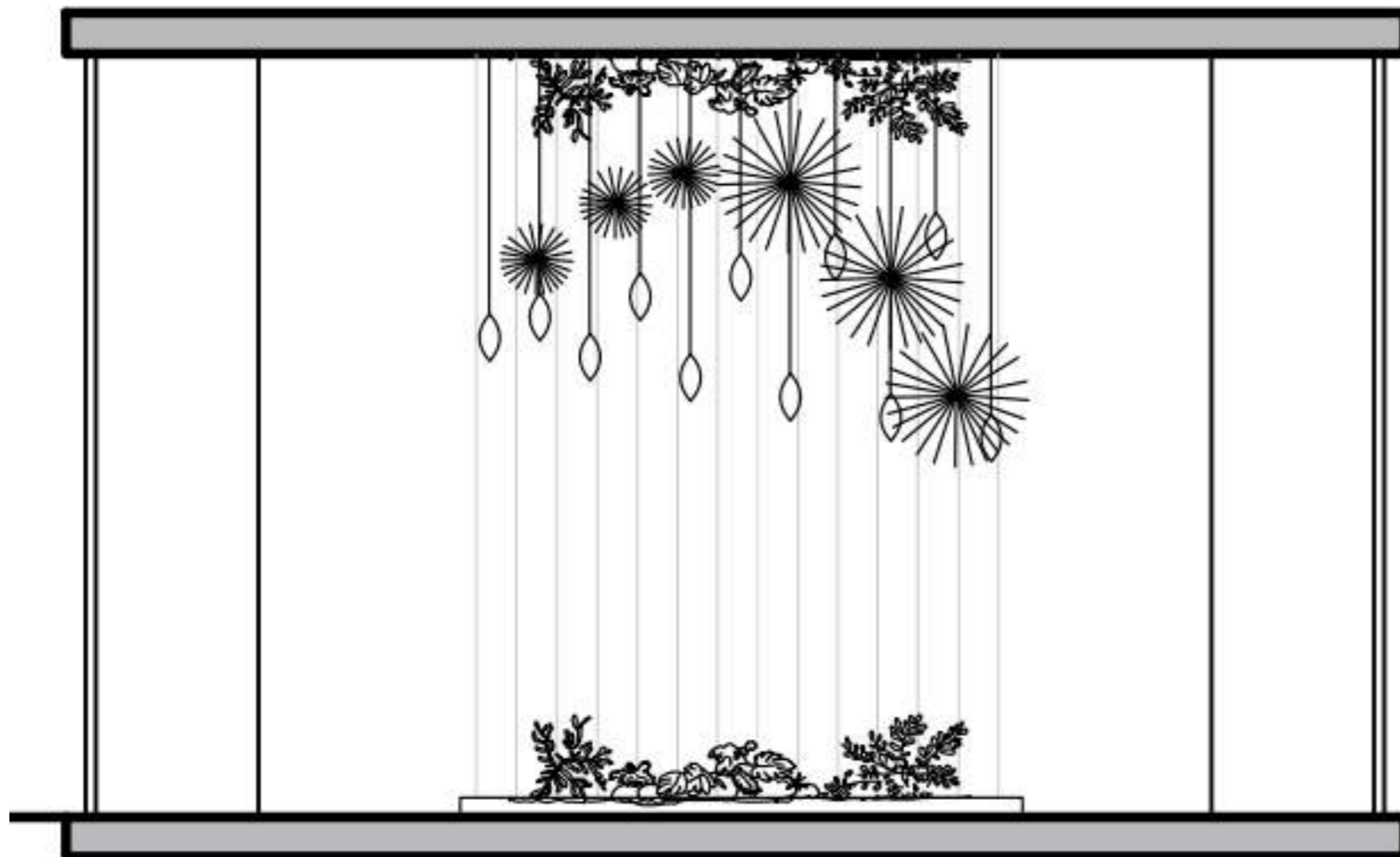
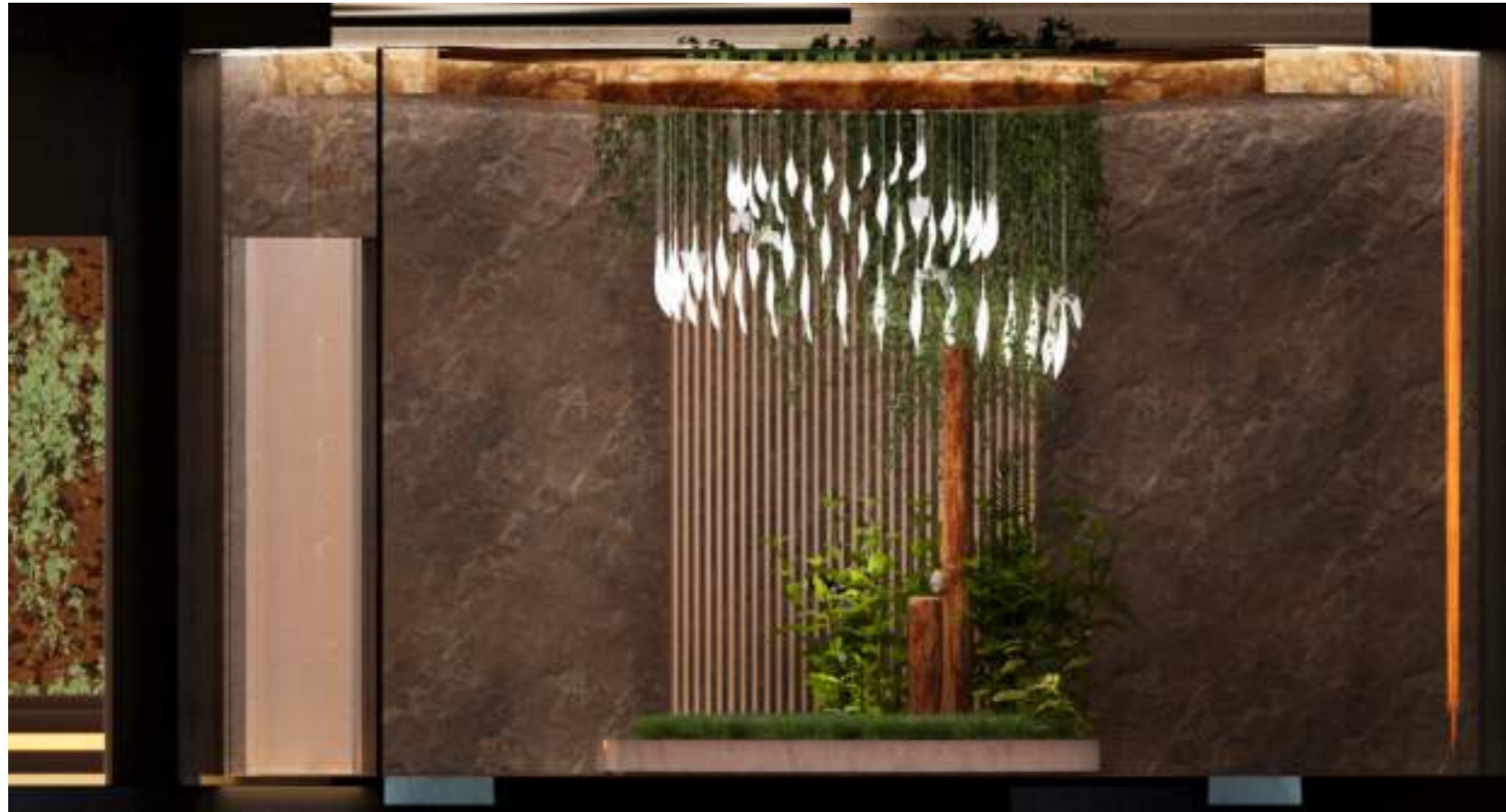
# BEDROOM



# BEDROOM



SCALE 1:100  
**COLORED SECTION** BATHROOM



# BATHROOM



CUSTOM MADE LIGHT INSTALLATION  
with bird like lamps

REAL PLANTS AND TREES

SOIL  
For grounding while having a shower  
HEALTH PURPOSES



PEACE LILY



BOSTON FERN



SNAKE PLANT



JADE



CHINESE EVERGREEN



ZANZIBAR GEM





GROUND  
Soil and grass

WATER



# BATHROOM



AS MUCH AS NEW TECHNOLOGIES AND SMART HOMING SYSTEMS ARE BENEFICIAL FOR COMFORT AND HUMAN EASE IT CAN BE HIGHLY DANGEROUS FOR HUMAN HEALTH

Real nature provides health and life for all living things, it has all the resources we need to survive and live a quality life. Unlike technology there is no harm in nature. many studies have shown that air purifiers, artificial home scents LED lighting and hologram systems are cancerogen and can be highly radioactive. So as much as using the beneficial side of the technology, we should be careful about the consequences that it comes with.

Instead of trying to imitate nature we should heal it and support it, integrate it in our daily lives so that we live a better and healthier life.

GLIMPSE INTO THE VIRTUAL NATURE



VALERİ HEMŞİ