Project Dossier.

A portfolio, refined and true,
Shows thoughtful work in view.

SONY
WALKMAN

1 Profile

Something about designing around constraints, overcoming adversity, piques my interest.

With a keen eye for detail, I'm passionate about crafting great experiences, focusing on attributes not commonly associated with design.

All it takes is just a good cup of Badam Milk to get started.

2 Education Pathway

Home Institution

Temasek Polytechnic | School of Design

High School Diploma
Product & Industrial Design

June '14 – April '17

Temasek Polytechnic
Singapore, Singapore

POLITECNICO MILANO 1863 DESIGN DEL PRODOTTO

Laurea Triennale; Bachelor of Science
Product Industrial Design

September '20 – March '24

Politecnico di Milano
Milan, Italy

THE NEW SCHOOL PARSONS | PARSONS SCHOOL OF DESIGN

Master of Science
Data Visualization

August '24 – May '25

The New School Parsons
New York City, United States

Semester Abroad

Academy of Arts and Design אקדמיה לאמנות ועיצוב ירושלים | בצלאל بتسلئيل Bezalel

ERASMUS Exchange - Bachelor of Design
Industrial Design

February '22 – June '22

Bezalel Academy of Arts & Design
Jerusalem, Israel

Aalto-yliopisto Aalto-universitetet Aalto University

Aalto Summer School
Circular Economy

Summer '23

Aalto University
Helsinki, Finland

浙江大學 ZHEJIANG UNIVERSITY | GLOBAL SUMMER SCHOOL

SDG Global Summer School
Data Visualization

Summer '23

Zhejiang University
Hangzhou, PR China

ATHENS WEEK | CTU

Athens Programme
3D Metrology

Winter '23

Czech Technical University
Prague, Czech Republic

ORTA DOĞU TEKNİK ÜNİVERSİTESİ MIDDLE EAST TECHNICAL UNIVERSITY

ERASMUS Exchange - Bachelor of Science
Industrial Design

February '24 – April '24

Middle East Technical University
Ankara, Turkey

wherever we are, I've got it.

3 Proficiencies

Softwares

◆ Exposure ● Novice ■ Moderate ▲ Fluent

Photoshop ■ · Illustrator ■ · Alias ▲ · AutoCAD ▲ · Rhinoceros ▲

Premiere Pro ■ · After Effects ■ · Cinema 4D ■ · Keyshot ▲ · MongoDB ▲

.js ◆ · HTML ◆ · CSS ◆ · Python ◆ · Pandas ▲

Linguistics

English	*Proficient*
Chinese	*Proficient*
Italian	*Proficient*

4 Work Experience

BreadTalk Group Ltd.
Internship — Apr - Sep '16
Design Visualisation · Advertisement

Hustle & Bustle Pte. Ltd.
Exhibition Designer — Sep - Mar '20
Design Research · Conceptualisation · Rapid Prototyping

Salone del Mobile '24
Translator - Interpreter — Apr '24
Linguistics Translation

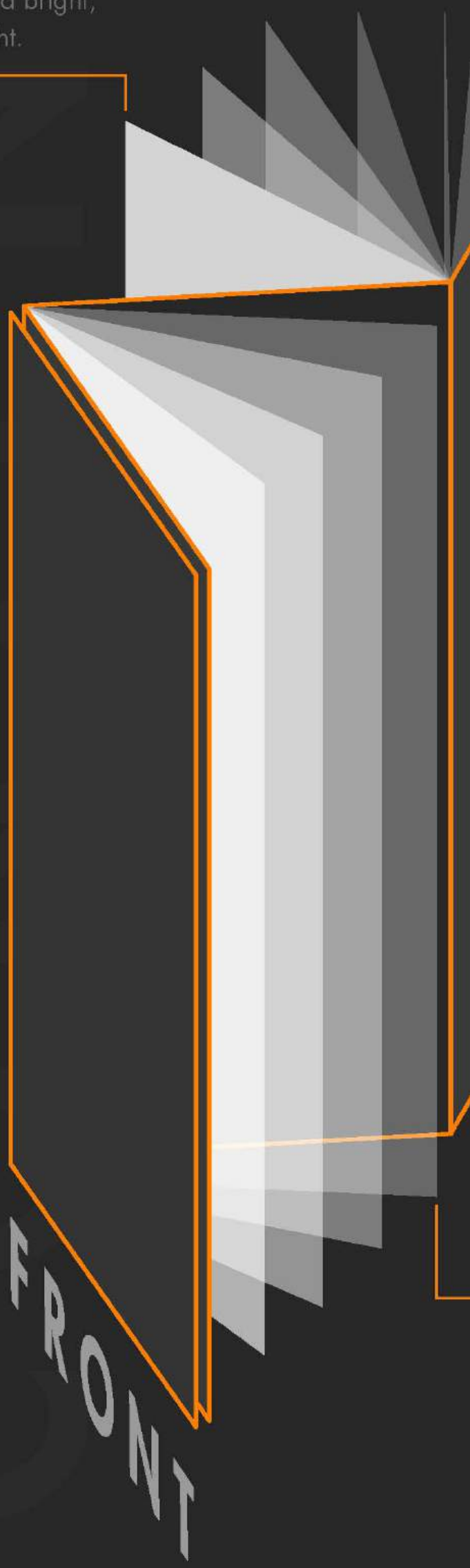
Prada S.p.A
Exhibition Designer — Nov '22 - Mar '24
Event Management · Conceptualisation

5 International Exposure

Singapore, Singapore ● Tokyo, Japan ● Guangzhou, China ● Helsinki, Finland
Ho Chi Minh City, Vietnam ● Milan, Italy ● Jerusalem, Israel ● Hangzhou, China
Ankara, Türkiye ● New York City, United States

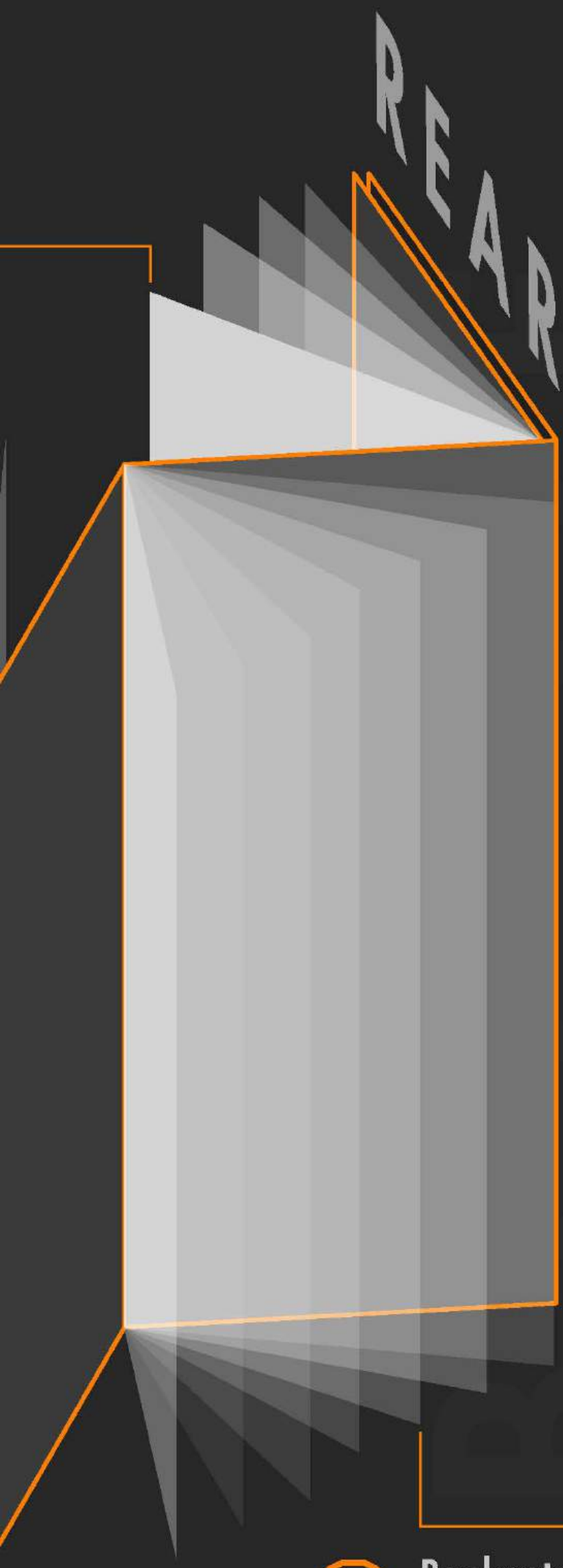
ch 3 **Exhibitions** ●
An exhibition draws the crowd,
Where art and stories speak loud.

ch 4 **Data Visualisation** ▲
Data visualized clear and bright,
Turns numbers into insight.



INDEX

▲ SYSTEM
■ IDENTITY
● STUDIO
◆ EXPERIMENTAL



ch 2 **Banknotes**

A banknote travels far in hand,
Telling tales only money can brand.

ch 1 Introduction
Résumé
Industrial Design

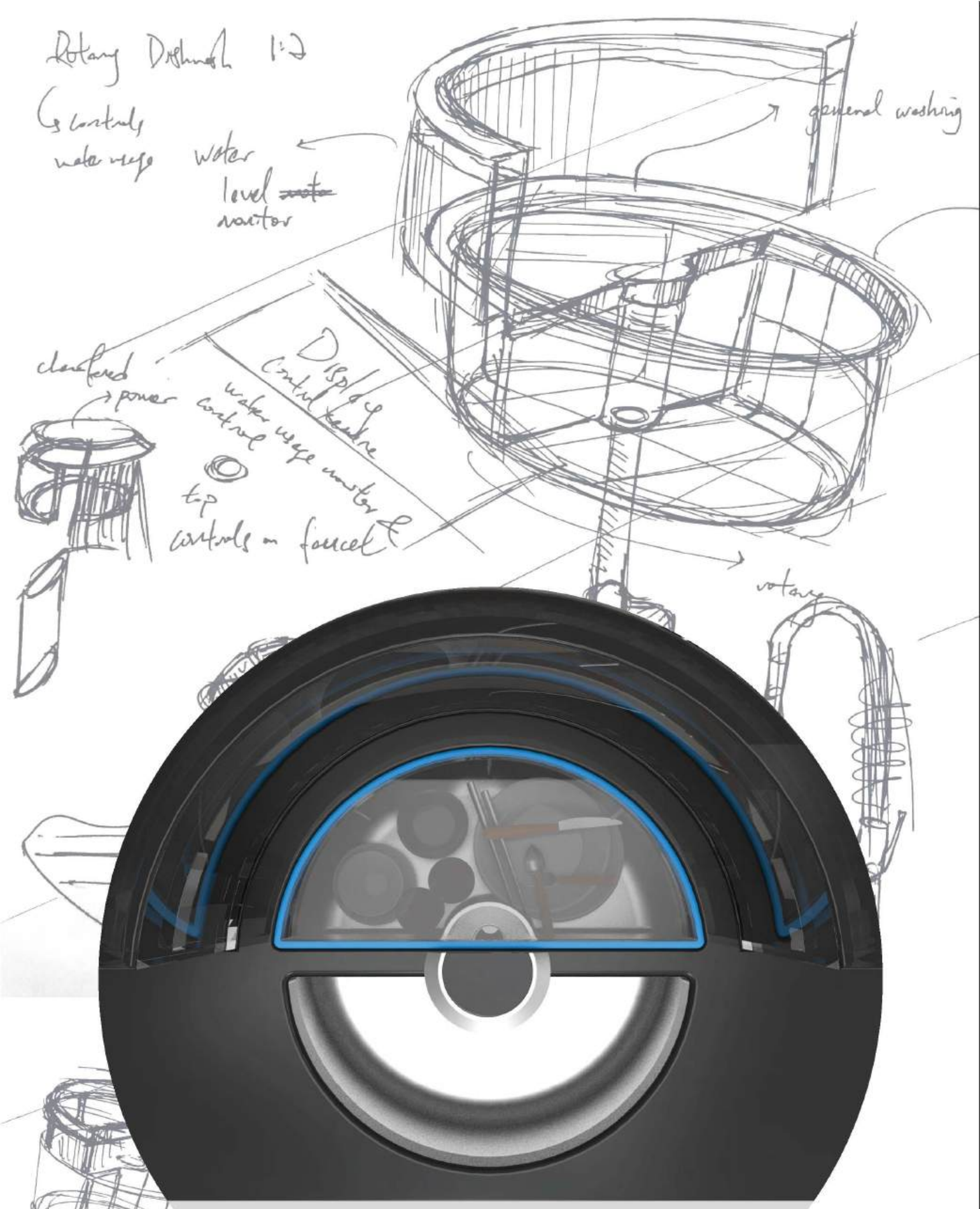
IN

DU

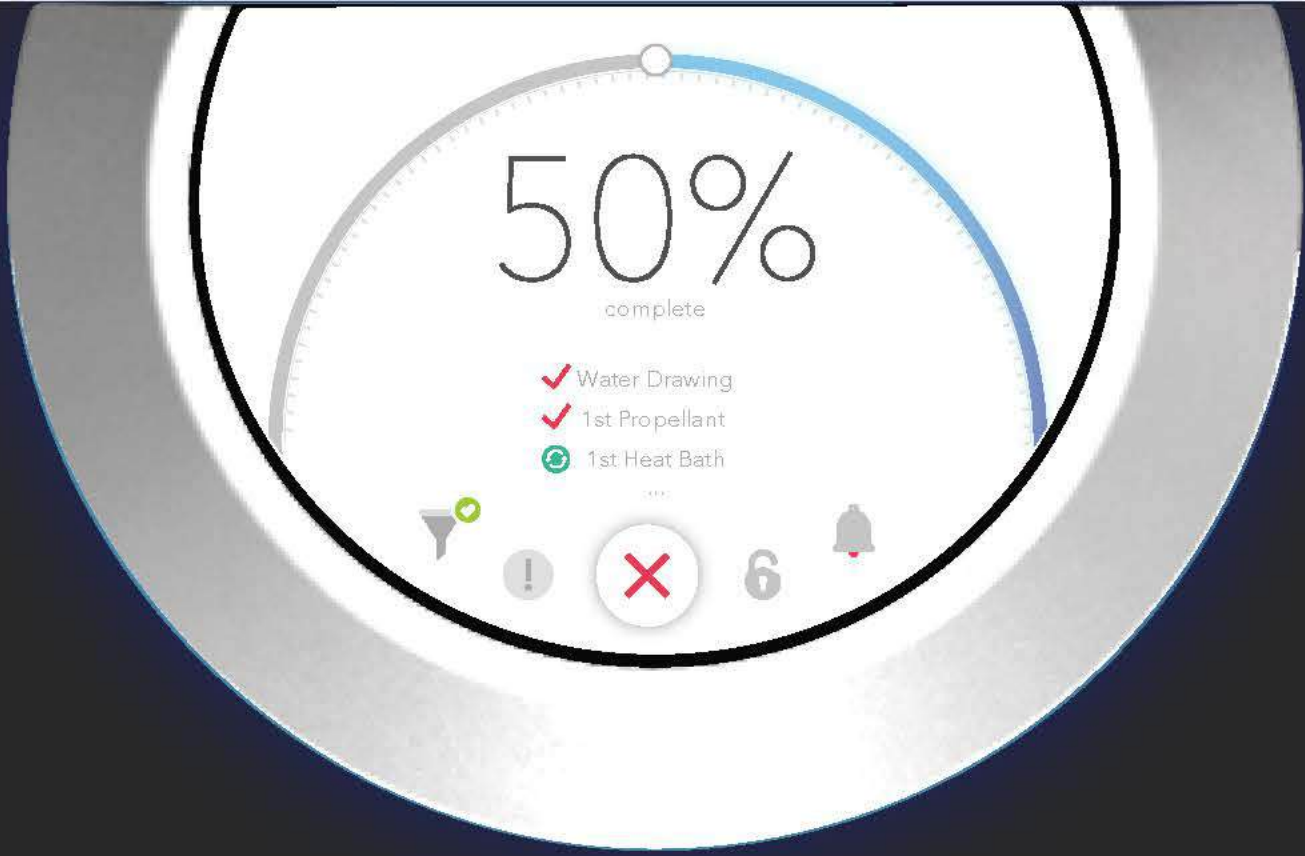
ST

Arroyo. Rotary Dishwasher.

A dishwasher built in the sink,
Revolves to clean in a blink.

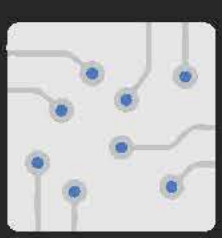


integrated sink & rotary dishwasher



Welcome

Join us to build a smarter home

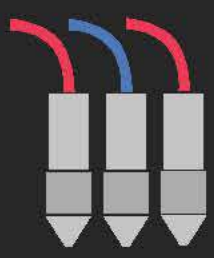


Integrated Systems

A closed-circult ecosystem, with completely self-sufficient water usage. Faucet, dishwasher employs water from the same source.

Dynamic Sensors

Use of sensors to detect system faults, leakages and potential failures to create early warning for repairs and replacement.



Multi-faceted Nozzles

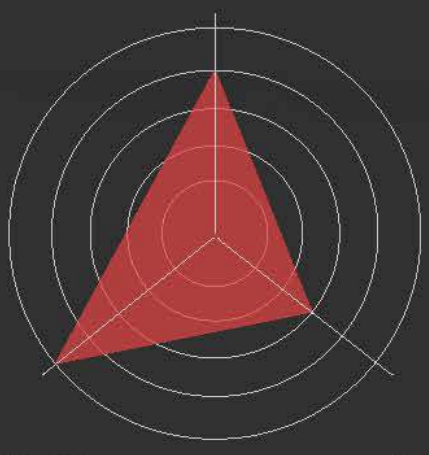
Simultaneous high-pressured water bombardment at multiple angles to ensure maximum efficiency in the usage of water for cleansing.

Artifical Intelligence

Employment of A.I for detection of varying types of food stains and kitchenware materials for optimal cleansing techniques.

Get Started

COMPACT

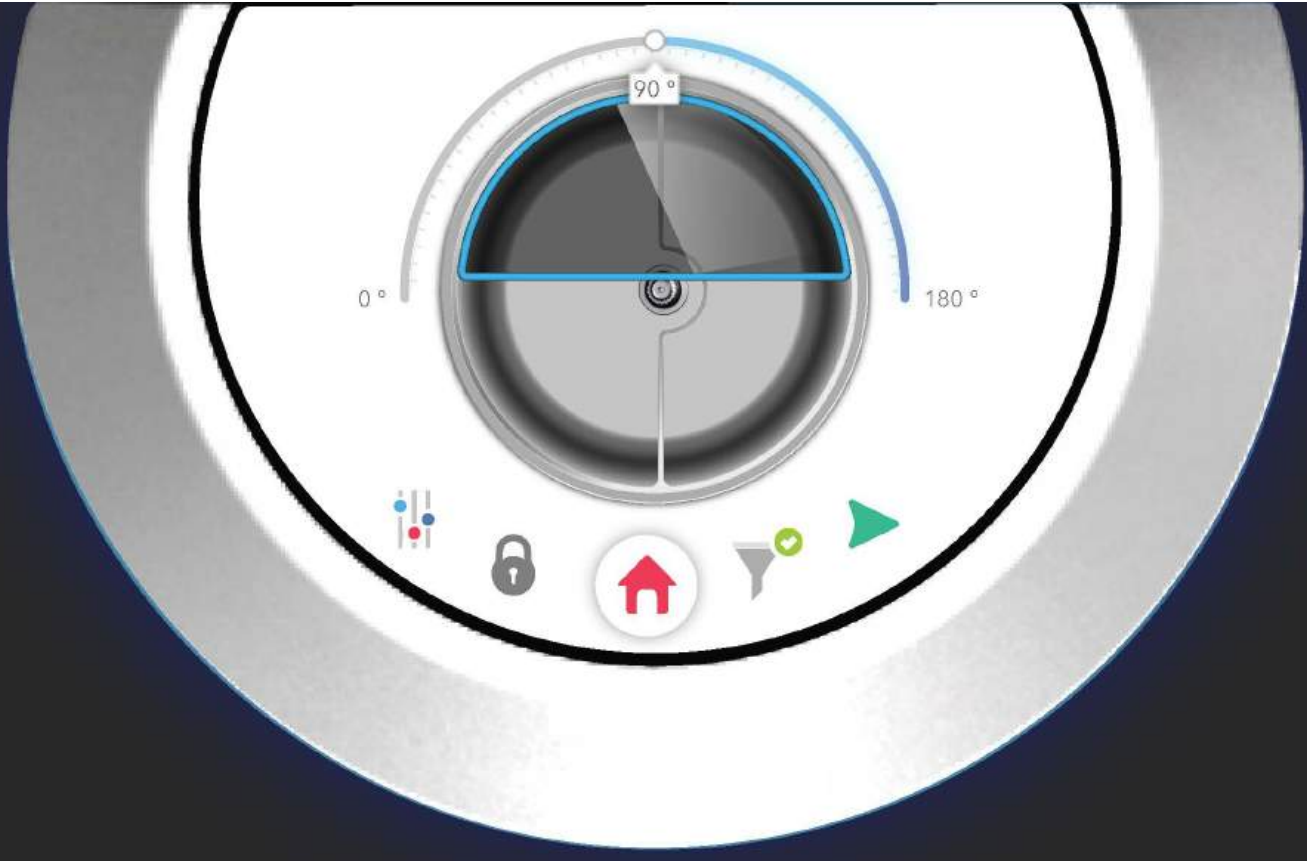


MULTIFUNCTIONAL **ECO-SUSTAINABLE**

With a faucet and dishwasher hybrid, our kitchen routine just gotten so much neater and efficient. The major design overhaul has allowed it to command such a compact form factor.

As we are now able to witness how our cutleries are cleaned without worrying about disrupting the entire process. It will be possible to terminate the cycle if any errors are spotted.

Washing our hands while a dishwash-
ing cycle is activated



Manual Mode

Quick Wash

Maintanance Mode

Settings

Open Top Hatch

Filter Replacement

Haptic Tap

Allow Notifications

Notifications

Visual Notifications

Idle Mode

Loading Pulse

Error Alert

Completion Feedback

Audio Notifications

Startup

Idle Mode

Loading Pulse

Error Alert

Completion Feedback

Presets

For Ceramic

Wash Duration 1h 50 min

20 °C

60 Psi

Preset Manual

20 °C Water Temperature

1h 35 min Wash Duration

60 Psi Waterjet Pressure

20 120

+ Heat Up/Cool Down 10 min

+ Water Draining 5 min

Total Duration 1h 50min

Filter Status

System Error

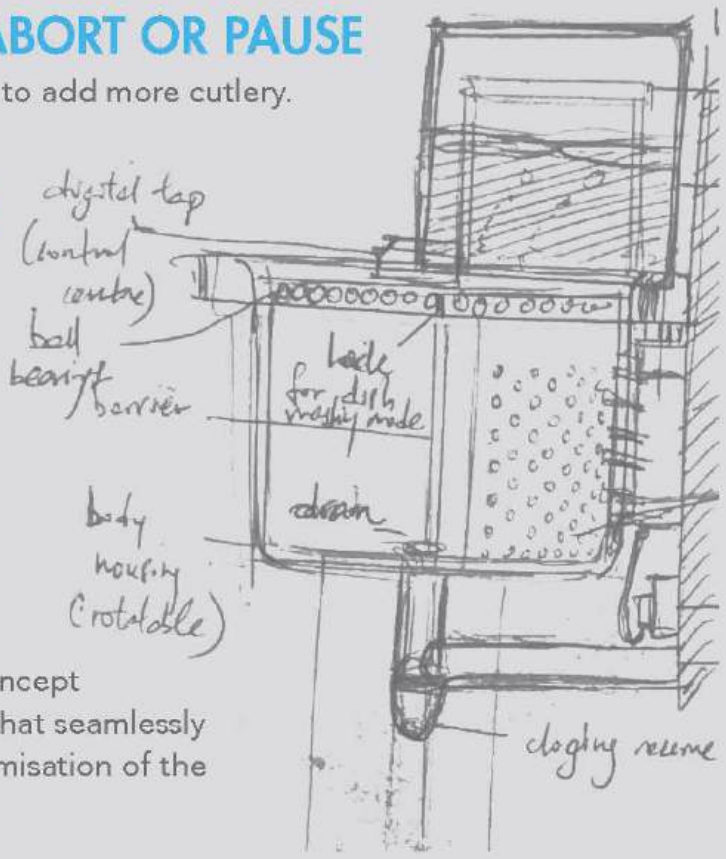
Lock/Unlock Compartment

System Notification

SPEED UP, REPEAT, ABORT OR PAUSE

whenever a change in mind or to add more cutlery.

DISHWASHER-SINK INTEGRATION



The rotating basin features dual purposes: functioning as both a sink and a dishwasher.

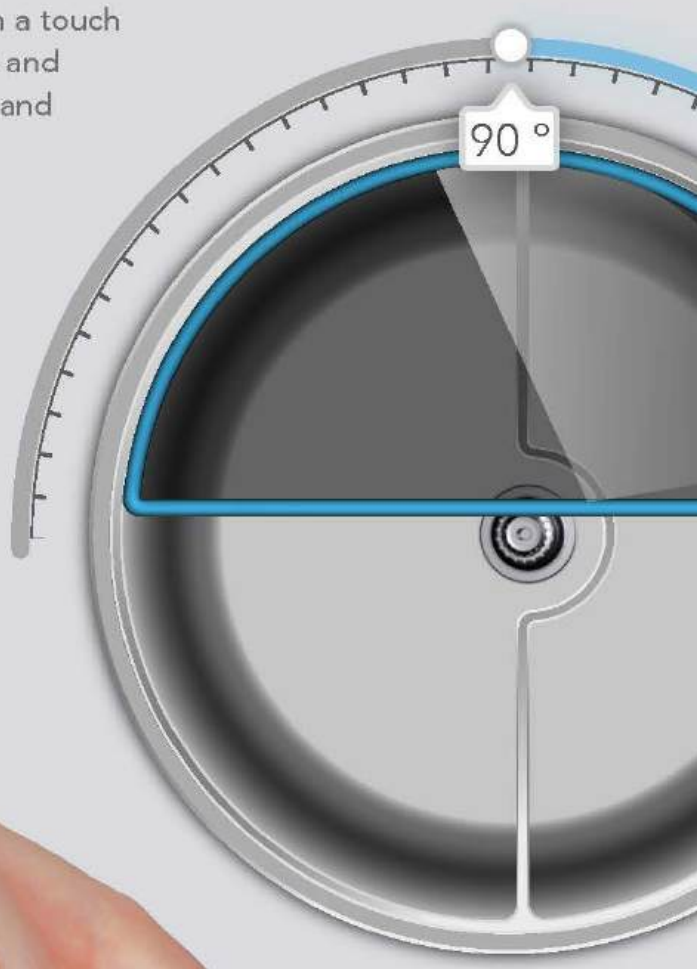
The project begins with a comprehensive research of space constraints within a modern apartment to initial concept sketches to visualise a design that seamlessly combines practicality and optimisation of the kitchen space.

DYNAMIC CONTROL CENTRE

Central to this design is a control center with a touch interface managing the entire cleaning cycle and facilitating seamless switching between sink and dishwasher modes.

The touch interface provides control over cycle types, water temperature, and cleaning intensity, allowing users to tailor the washing process to their specific needs.

The rotating mechanism is designed with user safety in mind, ensuring smooth transition, with sensors and a secure seal during dishwasher mode to prevent leaks.



1 INACTIVE

Use the faucet as per normal

In this stage, the user use the sink for regular tasks like washing hands or rinsing fruits.

With a tap on the control center, the user activates the rotation, seamlessly swithcing the sink into dishwasher mode.

Sensors ensure that the transition is safe, providing an audible alert when the unit is fully locked in dishwasher mode.

2 PREPARING TO CLEAN

Load in cutlery and plates.

Once in dishwasher mode, the user loads dishes into the rotating basin. The user selects the desired cycle, customizing water temperature and washing intensity.

The dishwasher then initiates the cleaning process, with real-time updates visible on the touch screen, showing the estimated time remaining and cycle progress.

3 CLEANSING

Set and begin process

During the active cleaning stage, the integrated dishwasher utilises a rotating spray arm and targeted jets to efficiently clean dishes from multiple angles.

Advanced sensors monitor water pressure and temperature, while adjusting the cycle based on load weight or detected debris. The display provides notifications if any adjustments or issues arise during the cycle.

4 AFTER CLEANING

Unload cutlery and plates.

Upon completion of a cycle, the control center alerts the user with a melody. It then prompts the user to either let the dishes air-dry in place or remove them immediately.

After removing the dishes, the user can switch back to sink mode, smoothly transitioning back into a sink, ready for use, with all traces of its previous dishwasher role hidden beneath.

INDUST

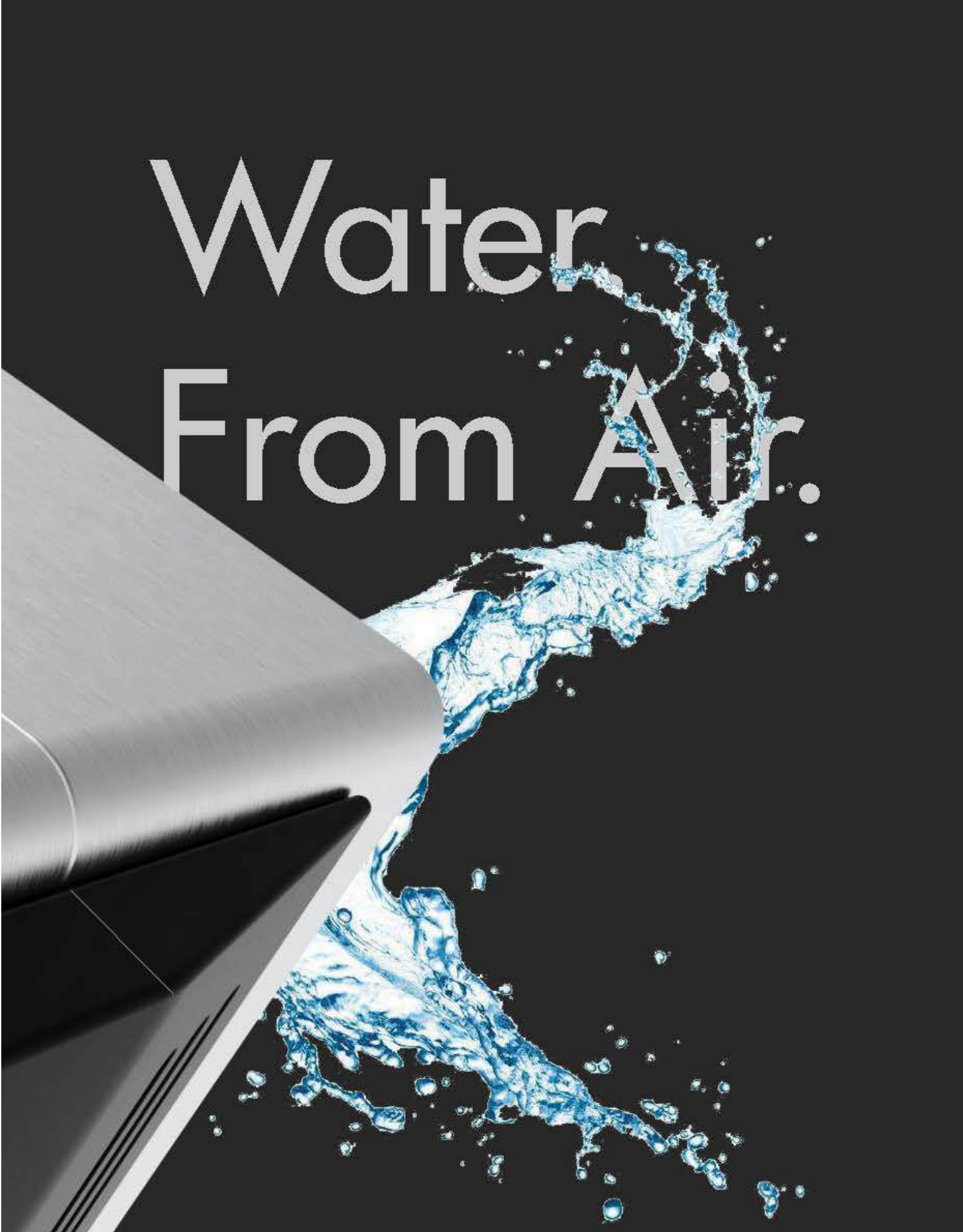
Watergen. Alpha.

A dispenser that draws from the air,
Turns vapor to water, pure and fair.

Watergen

DESIGNED IN ISRAEL

Water From Air.



The industrial design centers around a state-of-the-art water dispenser that leverages breakthrough atmospheric water generation (AWG) technology. This innovation extracts water molecules directly from the surrounding air, condensing them into clean, potable water. T

The project's process begins with in-depth research into AWG capabilities and user needs, followed by concept development that balances aesthetics, functionality, and environmental impact. The design phase includes prototyping a sleek, user-friendly interface and an efficient, energy-saving mechanism for optimal performance in various climates.

Testing ensures durability, water purity, and seamless integration into both residential and commercial settings, prioritizing sustainability and accessibility.

Child Module

GEN α

Water. From Air.

Next Generation Flavour-Configurable Water Generating Module

The system is designed with a “mother and child” structure, where the "mother" unit purifies air and generates water from atmospheric moisture, while the "child" unit is responsible for dispensing filtered water for drinking.

Water Generator

Vending Machine

(De)Humidifier

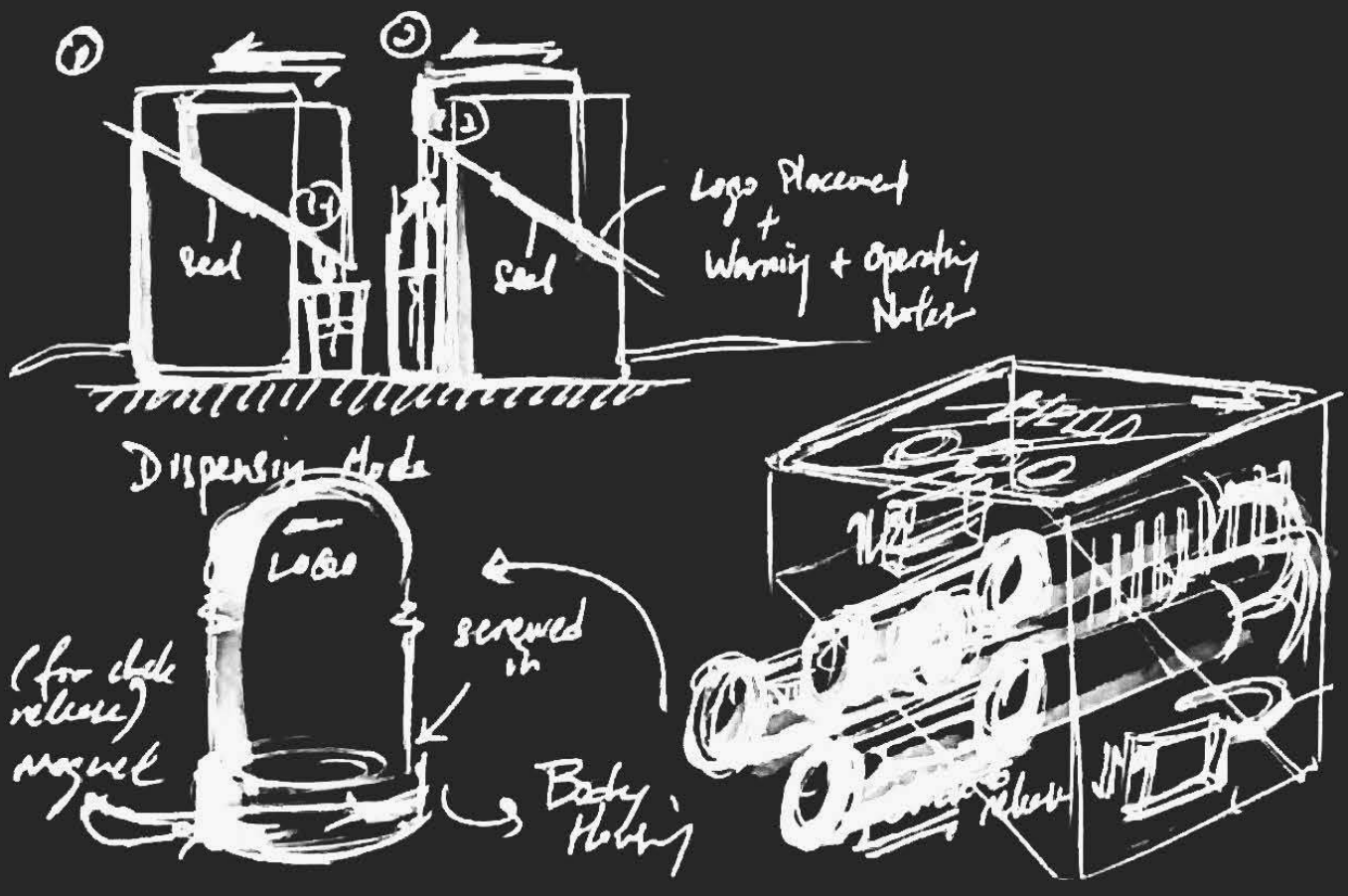
Rail Sliding Mechanism

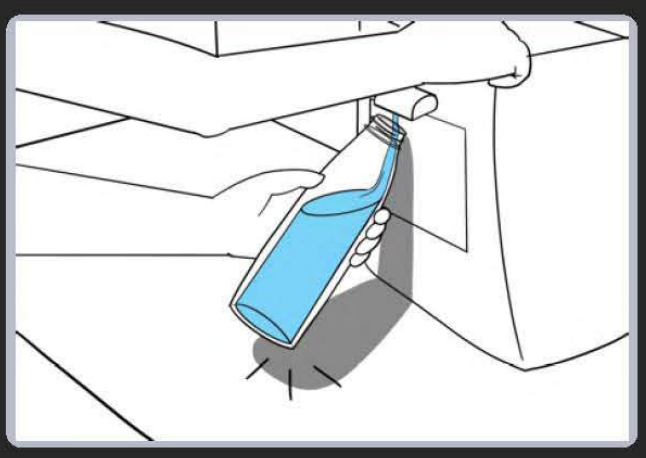
The “child” unit, as the user-facing module, is connected directly to the mother unit, it receives purified water on demand, incorporating features such as haptic touch feedback and water temperature customisation.

Its streamlined, inconspicuous design is crafted to fit comfortably in common spaces like kitchens, offices, or waiting areas, allowing users to easily access fresh, clean water at any time.

All while the mother handles the sophisticated, behind-the-scenes work of water extraction and purification.

300(ht) x 200(wt) x 150(dt) mm



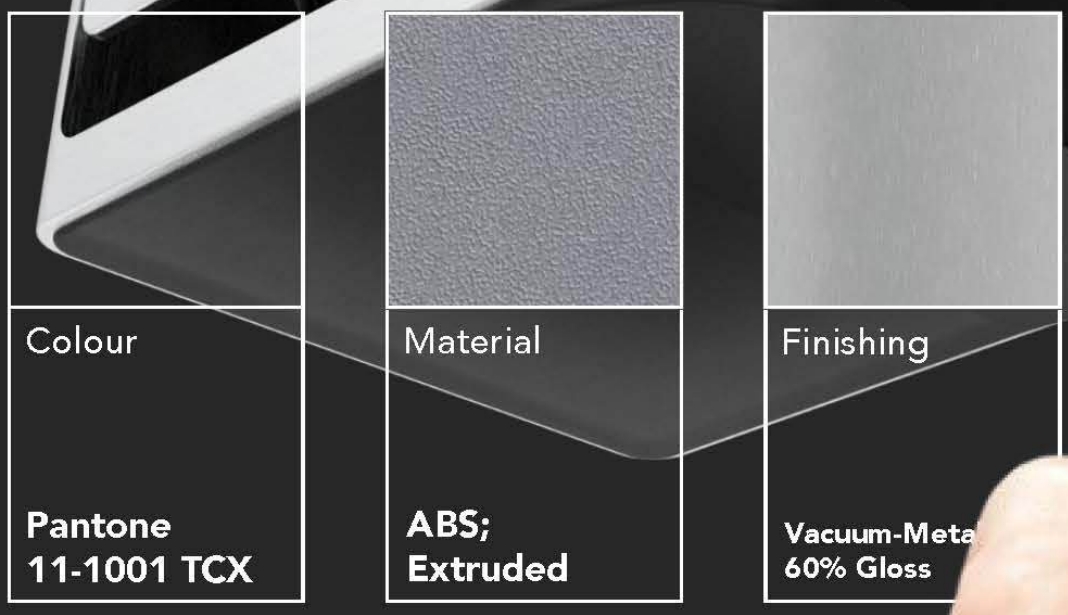


HYDRATION THROUGH FLAVOURED WATER

Flavored water adds a refreshing twist to hydration, making it more appealing and enjoyable for those who struggle with plain water.

Infused with natural fruit extracts, herbs, or subtle sweeteners, it provides a burst of taste without added sugars or artificial additives.

This simple enhancement encourages better hydration habits, promoting overall health and well-being.



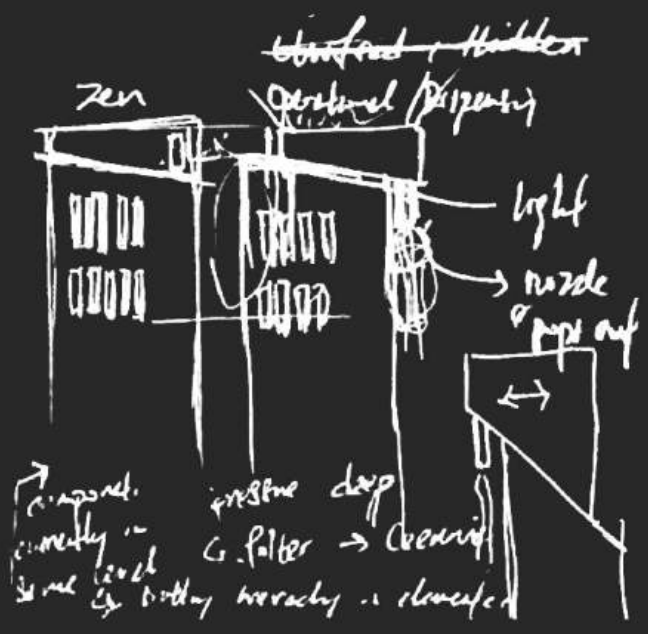
Colour	Material	Finishing
Pantone 11-1001 TCX	**ABS; Extruded**	**Vacuum-Meta 60% Gloss**

Watergen

Rebranded logo featuring sleek metallic elements, enhanced with a geometric font for a bold and contemporary look, reflecting on the brand shifting focus to more a utilitarian look and feel.

The dispenser incorporates a slide mechanism designed to seamlessly adjust and accommodate bottles and cups of various heights and sizes.

With a simple sliding motion, the dispenser's platform can be raised or lowered to ensure a optimum fit for containers ranging from small cups to large bottles, ensuring convenience and preventing spills.



ONLY WHEN YOU NEED IT.

A hidden nozzle that retracts when not in use, maintains a clean, utilitarian appearance and also protecting it from dust and contaminants. This design not only contributes to hygiene but also adds a touch of sophistication to the overall aesthetic.

The combination of the adjustable slide mechanism and the concealed nozzle makes this water dispenser a modern, solution that balances practical use with elegance.

Nozzle

Material	Finishing
Stainless Steel 316; Injection molded	**Polished**

ADAPTIVE.
HYDRATION STATION

VISUALISED
FILTER PLACEMENT.

Featuring a control center where buttons for dispensing flavored water are marked in CMYK-inspired colors, this aligning with users' intuitive associations between flavors and their respective colors.

This design leverages familiar visual cues to enhance the user experience and streamline selection. A glowing line connects each flavor cartridge to its corresponding button, creating a clear visual pathway that aids in easy identification and replacement of cartridges.

This thoughtful integration ensures both user-friendly operation and efficient maintenance.

CMYK.
NEVER LOSE TRACK AGAIN.

MAGNETISED ADHERENCE

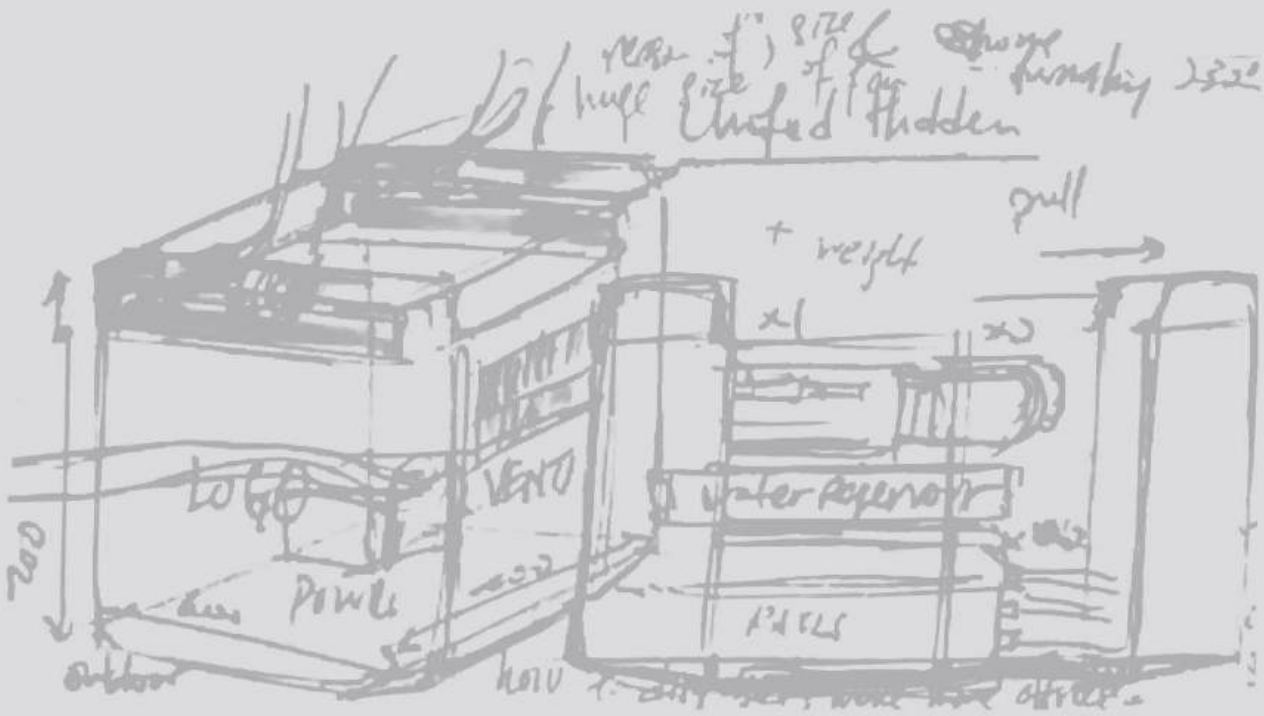
1 Opening Hatch 2 Configure Flavour Cartridges 3 Replace/ Exchange Flavour Cartridges

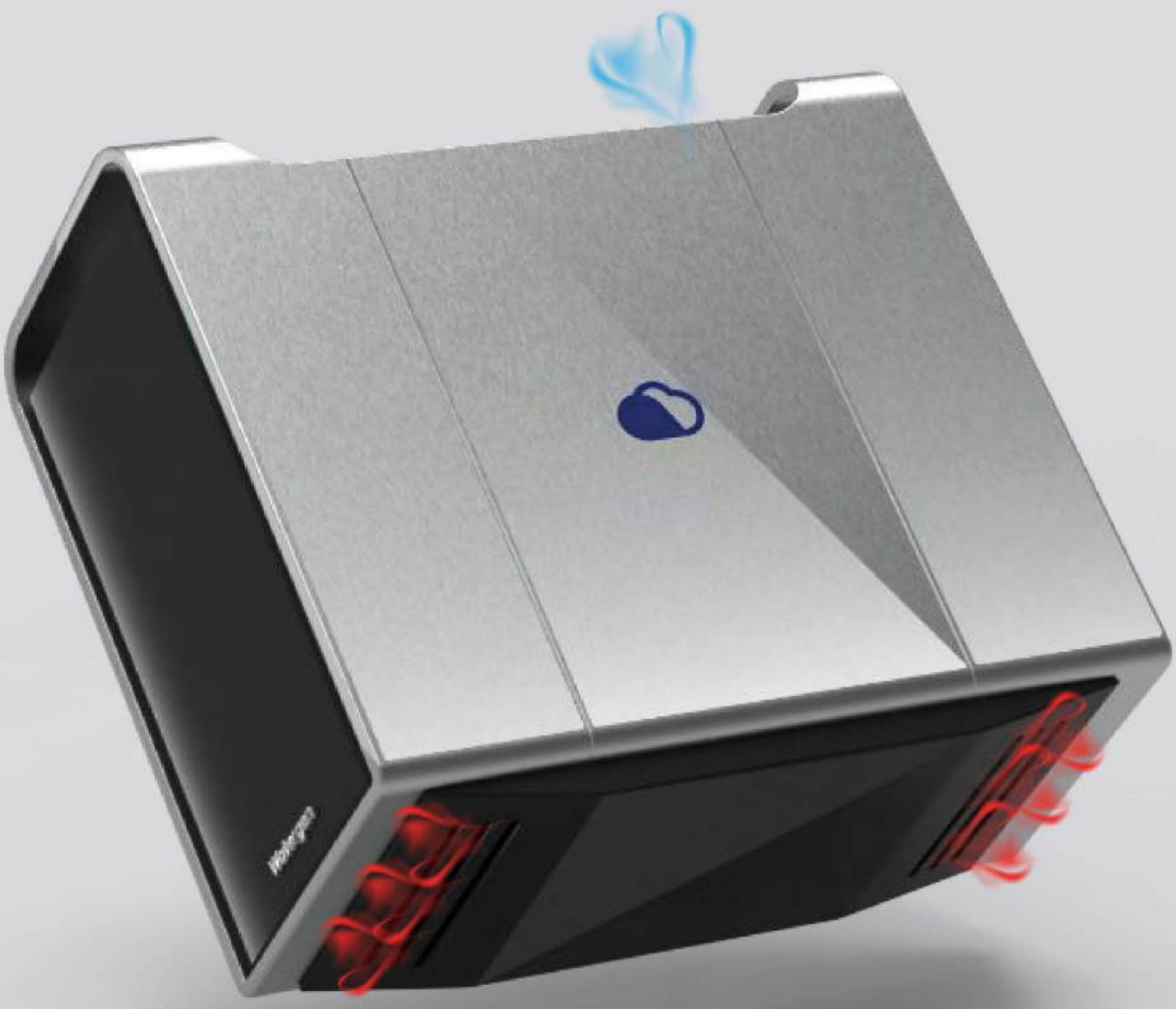
This mechanism ensures secure attachment of the flavor cartridges, preventing leaks and dislodgement, while simplifying the process of replacing cartridges; users can easily detach and attach new cartridges with minimal effort. Additionally, alignment indicators guide the cartridge into its correct position.

Mother Module

GEN α

Water. From Air.

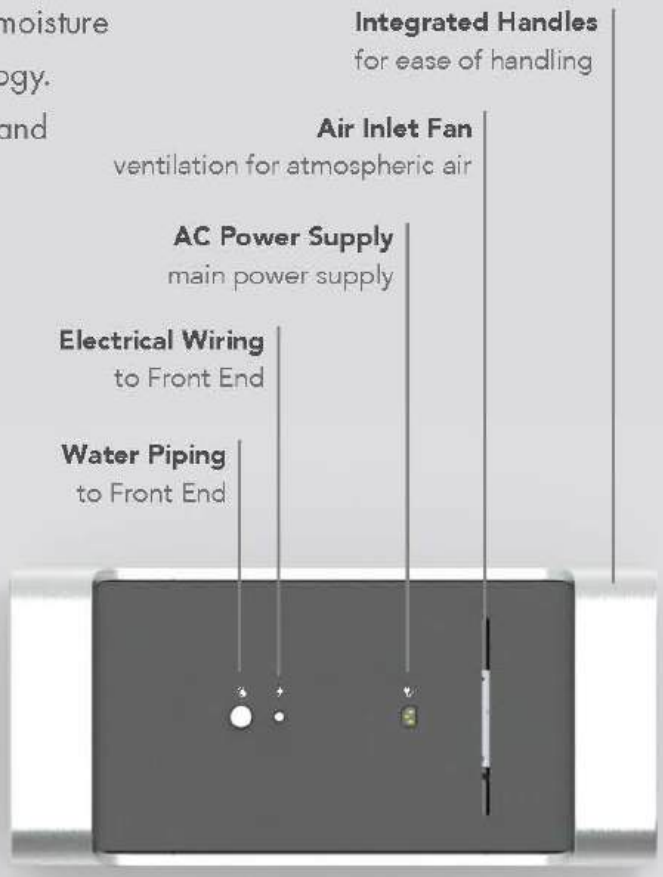




700(ht) x 775(wt) x 360(dt) mm

ATMOSPHERIC WATER GENERATION HUB: ADVANCED MOTHER UNIT

The "mother" unit extracts and purifies moisture from air using advanced AWG technology. Equipped with energy-efficient systems and smart diagnostics, it provides reliable, high-quality water production.



The "Mother" unit serves as the core of the system, housing the atmospheric water generation (AWG) technology. It draws in atmospheric air, before condensing the moisture into water, and purifies the collected water through advanced filtration systems, ensuring it's safe and potable.

Designed to function independently, the mother unit continuously generates and replenishes water, adapting to humidity levels to maintain an efficient water production rate. Positioned out of sight or discreetly integrated within a space, the mother unit itself is a self-sustaining hub that supports the "Child" unit.

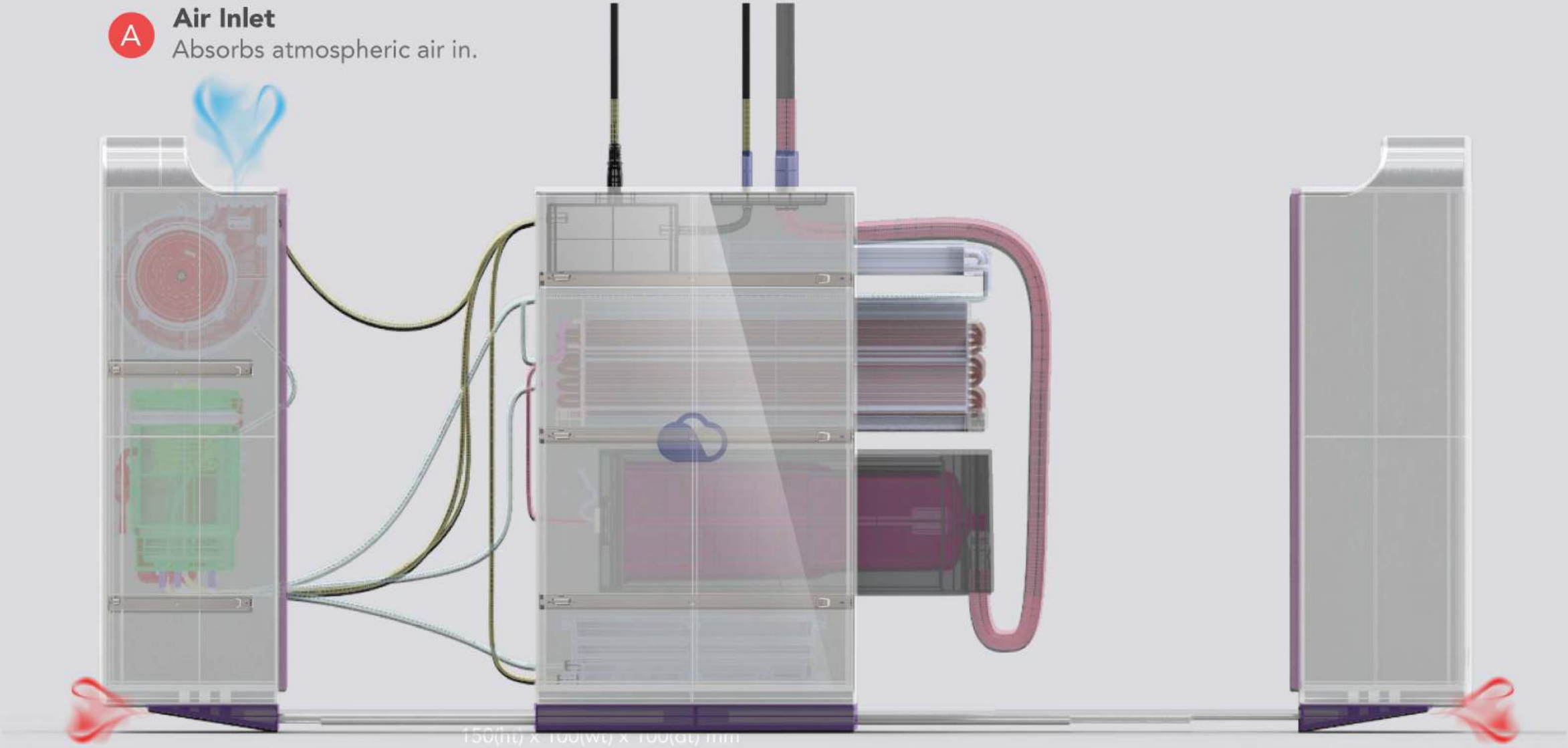
TECHNICAL SPECIFICATIONS:
ADVANCED MOTHER UNIT:
MAINTENANCE

Designed to be straightforward and ensuring long-term performance with minimal effort, the unit features modular components that allow for easy access and replacement, including filters and condensation parts.

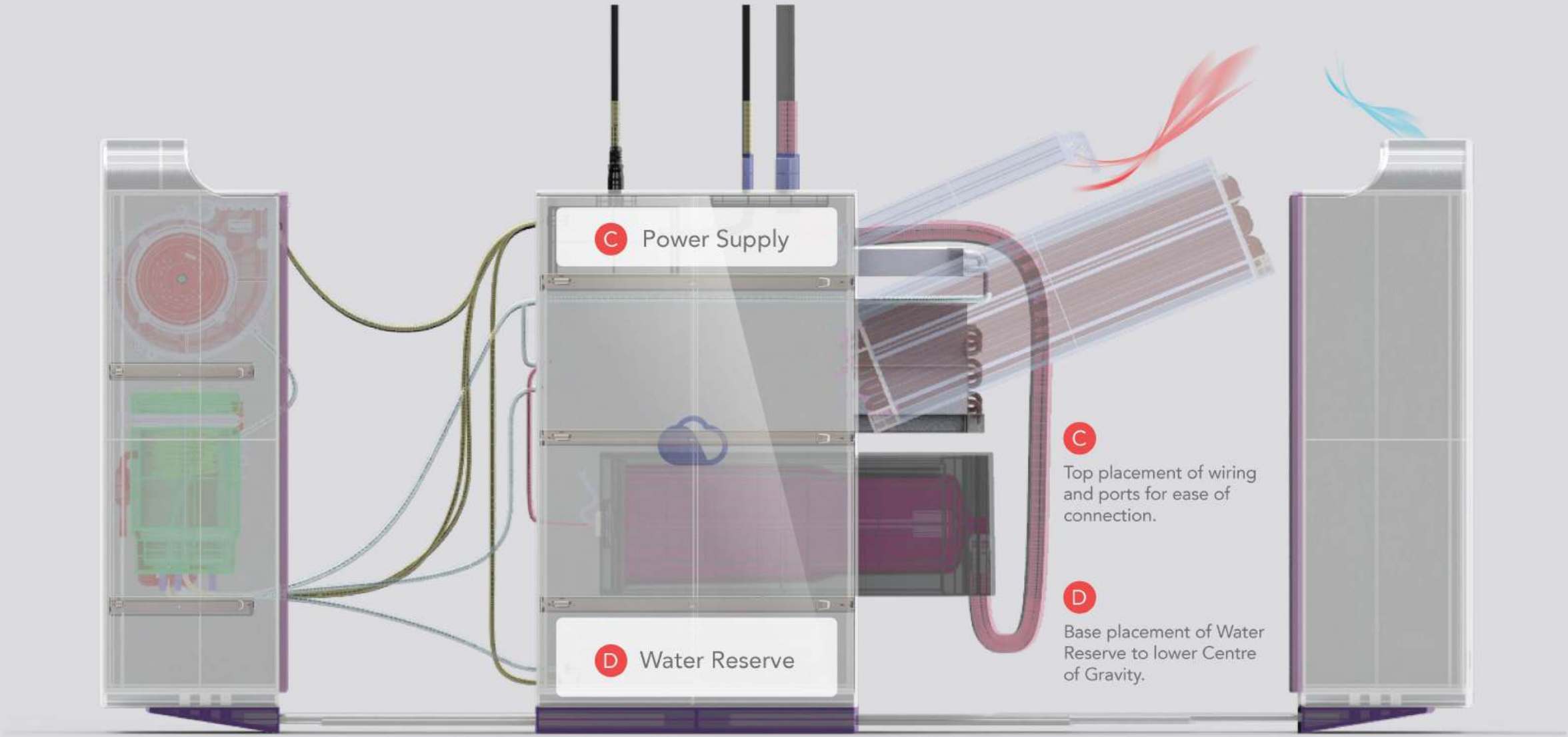
Automated alerts and smart diagnostics inform users when maintenance is required, such as filter changes or system checks. Regular upkeep involves basic cleaning and occasional replacement of key filters to maintain optimal water quality.

700(ht) x 775(wt) x 360(dt) mm

TECHNICAL SPECIFICATIONS:
AIR FLOW



TECHNICAL SPECIFICATIONS:
KEY COMPONENTS



GEN α

Water. From Air.

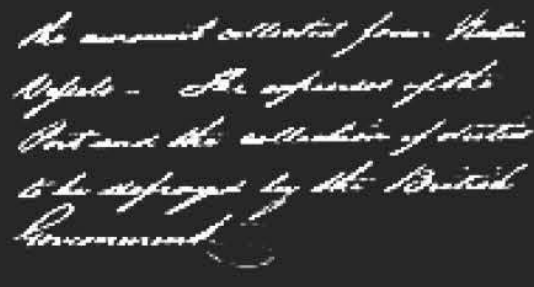
Watergen

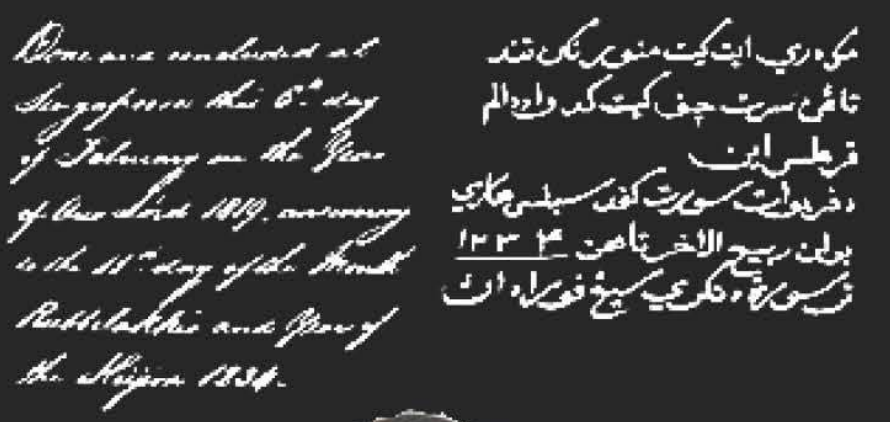
BANK

Bicentennial Singapore

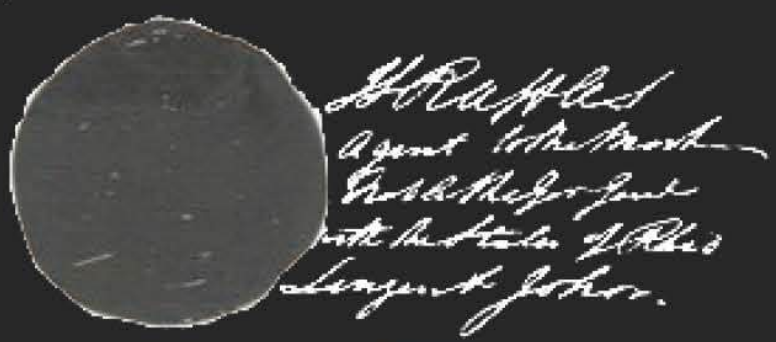
A bicentennial note, rich in theme,
Tells Singapore's tale, a nation's dream.

SG Bicentennial
From Singapore to Singaporean


the amount collected from Native Vessels - The expenses of the Port and the collection of duties to be defrayed by the British Government.


Done and concluded at Singapore this 6th day of February in the Year of Our Lord 1819, answering to the 11th day of the Month Rubbilakhir and Year of the Hijra 1234.

مکه ري ايت کيت منور نکن تند
تاڠن سرت چڤ کيت کد واوه الم
قرطس اين
د فريوات سورت کڤد سبلس هاري
بولن ربيع الاخر تاهن ١٢٣٤
تر سورة دنکري سيڠ فوراه ان


I G Raffles
Agent to the Mark
Rabbi the Govt Genl
with the States of Rhio
Singapore Johor.

200th Anniversary of the establishment of the Port of Singapore in the Straits Settlement

80(ht) x 166(wt) mm

1 Raffles Town Plan 1824

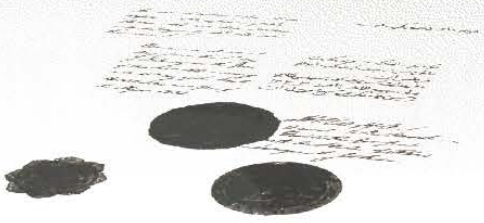
The Raffles Town Plan was formulated in late 1822. The town plan focused on the downtown area, particularly around the Singapore River, and spanned from Telok Ayer to the Kallang River.

It was based on the vision that Singapore would be "a place of considerable magnitude and importance" and, as such, "an economical and proper allotment of the ground intended to form the site of the principal town [was] an object of first importance".

The plan aimed to balance commercial, residential, and civic spaces, setting the stage for orderly urban development that would align with Singapore's burgeoning status as a critical trading port in the region.

2 Ratification of 1819 Treaty

The ratification of the 1819 treaty secured British control over Singapore, formalizing its role as a key trading post. Signed by Sir Stamford Raffles, Sultan Hussein Shah, and the Temenggong, the treaty allowed Raffles to develop Singapore as a free port.



200 SINGAPORE
BICENTENNIAL 1819 - 2019
th Year of establishing Singapura as a trading port by Sir Stamford Raffles And Major General William Farquhar

3 Treaty of Singapore 1819

On 6 February 1819, Stamford Raffles, Temenggong Abdu'r Rahman and Sultan Hussein Shah of Johor signed a treaty that gave the British East India Company (EIC) the right to set up a trading post in Singapore.

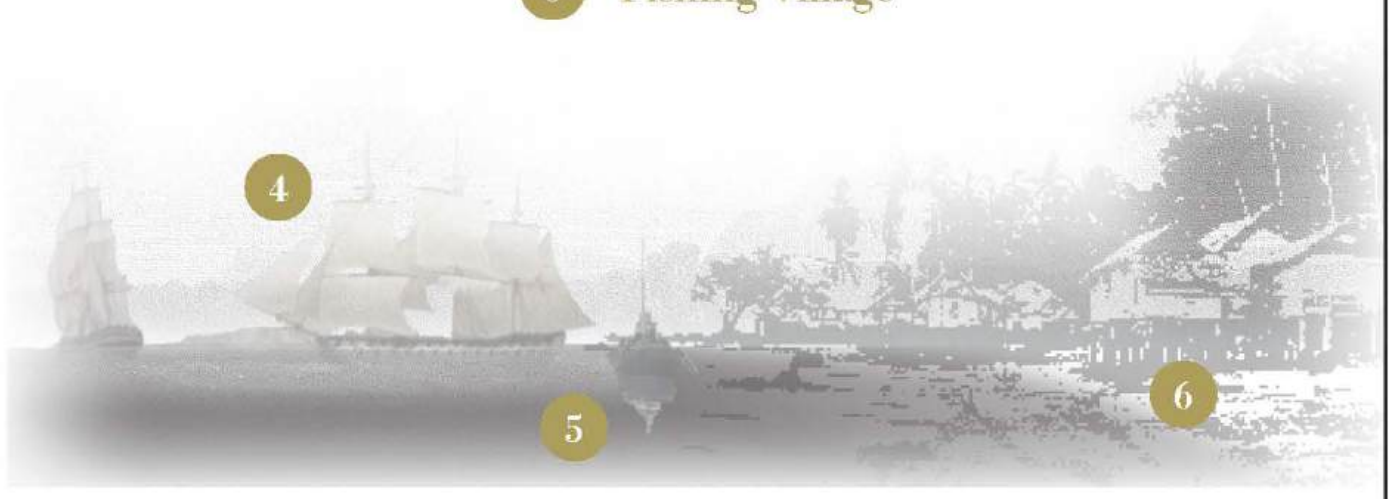
On that same day, the British flag was officially hoisted in Singapore, symbolizing the beginning of British sovereignty and the establishment of Singapore as a British settlement. This act marked a new chapter in Singapore's history, transitioning from a modest port to a central node in the British Empire's trade network.

Raffles's Landing

4 HMS Indiana with HMS Enterprise

5 Raffles's Boat

6 Fishing Village



HMS Indiana & HMS Enterprise docked at St. John's Island while Sir Stamford Raffles and Major General Farquhar went ashore to meet the Temenggong

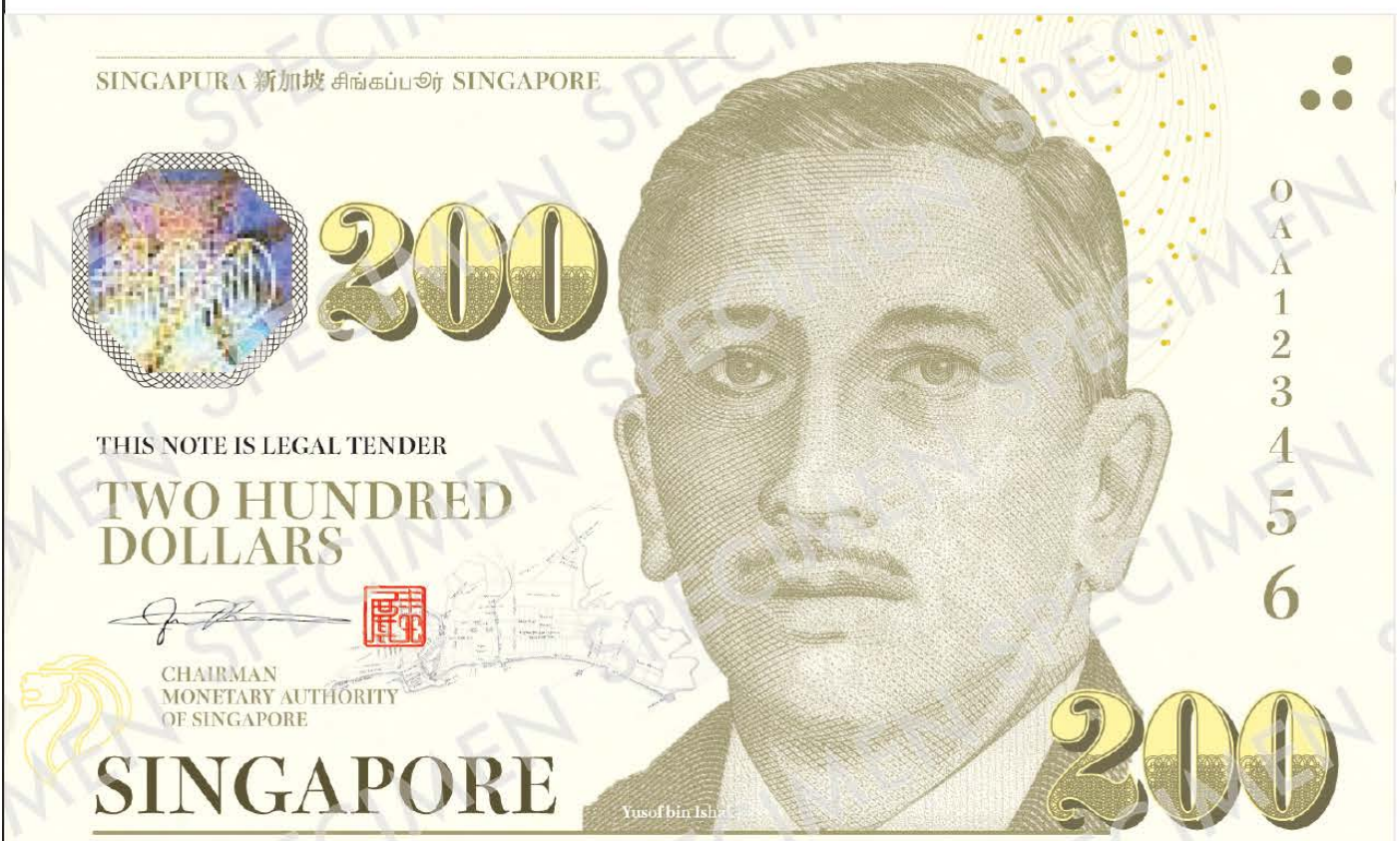
Stamford Raffles landed in Singapore on 28 January 1819. Travelling on the Indiana with a squadron that included the schooner Enterprise, he anchored at St John's Island at 4.00 pm on 28 January 1819 and met with Temenggong Abdul Rahman.

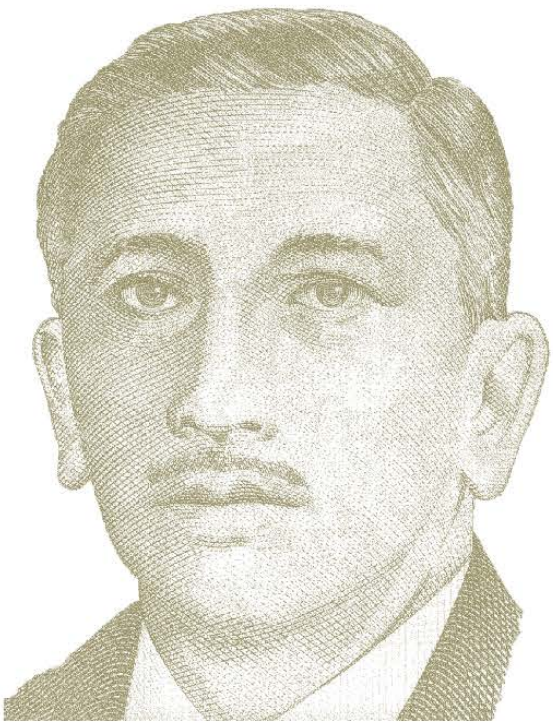
The 200 Singapore Dollar banknote coincides with the nation's anniversary of establishing Singapore as a major trading port to both South East Asia and the World.

This banknote not only marks Singapore's early transformation from a modest island settlement into a bustling hub of global commerce but also celebrates the foresight and vision that positioned it as a key player in international trade.

Obverse

Yusof bin Ishak, 1st President of Republic of Singapore;
Raffles Town Plan 1824





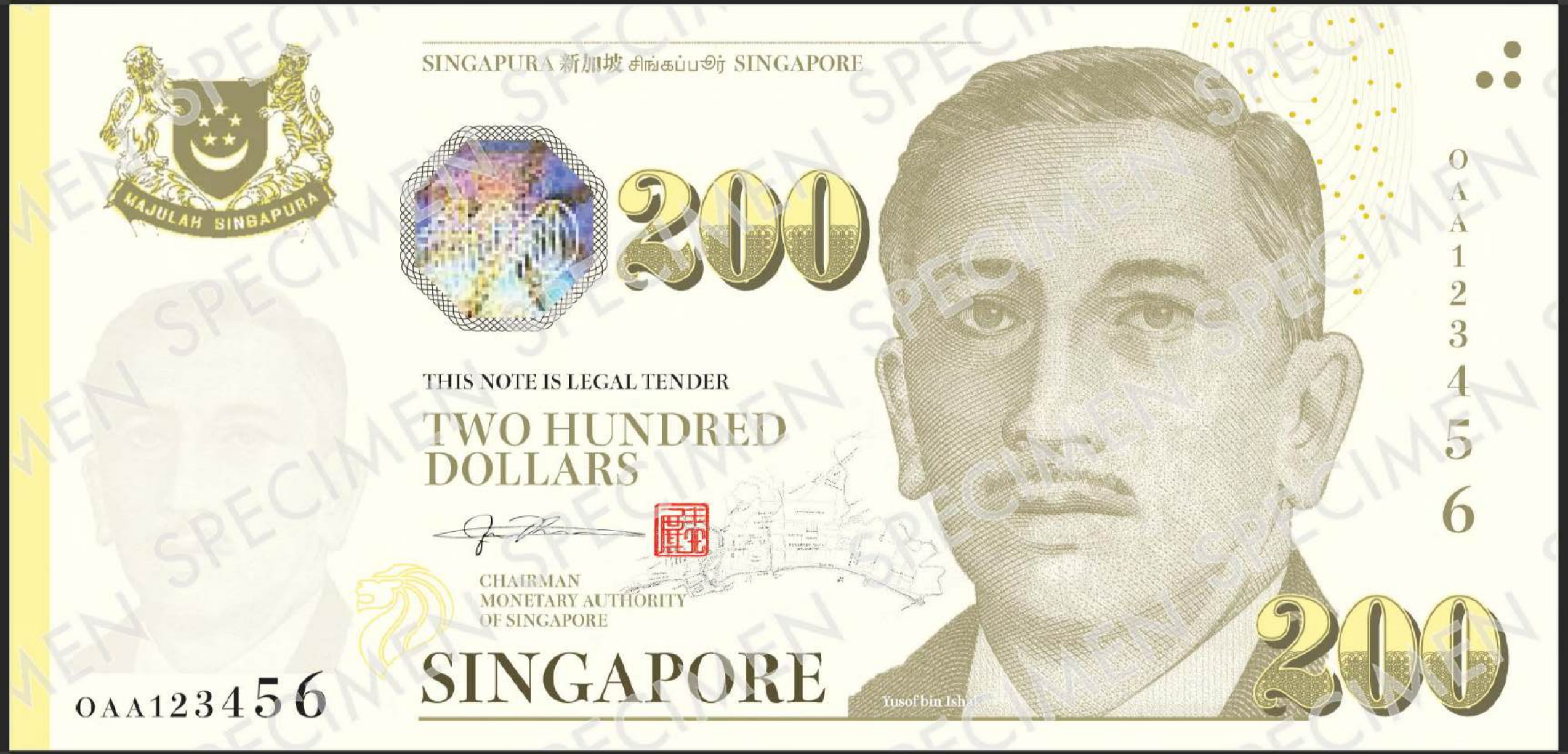
Yusof Ishak, Singapore's first President, is featured on Singapore's banknotes as a tribute to his significant contributions to the nation during its formative years.

Serving from 1965 to 1970, he symbolized unity, resilience, and leadership in the wake of Singapore's independence.

His presence on the currency honors his legacy in fostering a cohesive, multicultural society and guiding the nation through its early challenges.

Chinese Seals, symbolise the cultural influence of the Chinese, honoring multicultural heritage and unity in the diverse nation.

CHAIRMAN
MONETARY AUTHORITY
OF SINGAPORE



80(ht) x 166(wt) mm

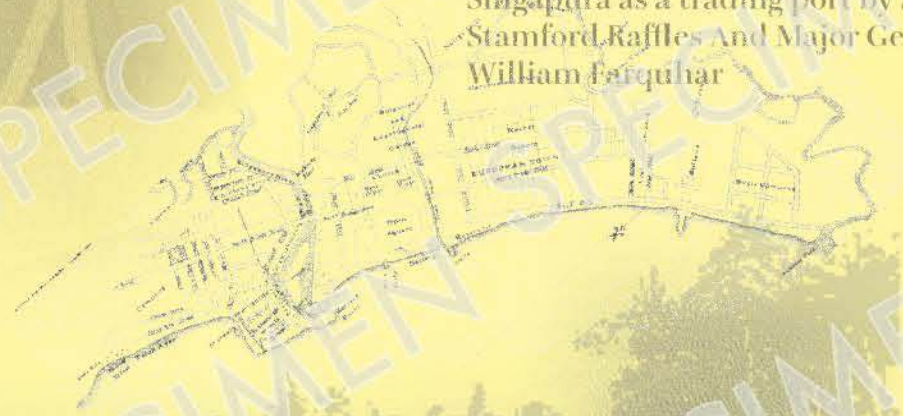
80(ht) x 166(wt) mm

200 SINGAPORE

BICENTENNIAL 1819 - 2019

200th Year of establishing Singapura as a trading port by Sir Stamford Raffles And Major General William Farquhar

1819 Singapore Treaty



HMS Indiana & HMS Enterprise docked at St. John's Island while Sir Stamford Raffles and Major General Farquhar went ashore to meet the Temenggong

200

SPECIMEN

Thalassocracies in Southeast Asia

Banknotes tell of thalassocracies' might,
Southeast Asia's trade routes in sight.

Security in Design

Banknotes

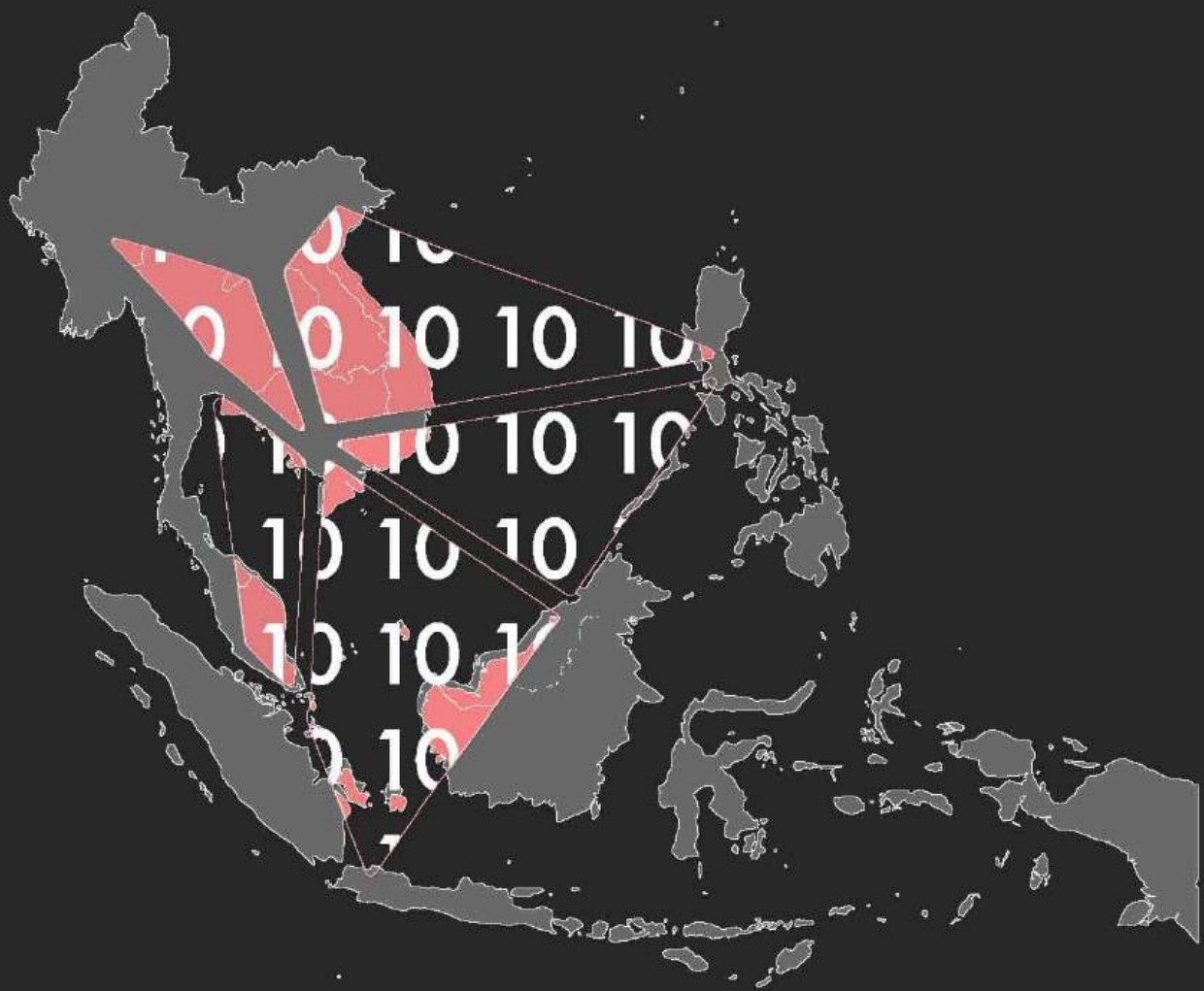
Designing the most circulated product

desirable
coveted

This series is a tribute to the rich maritime heritage of Southeast Asia, celebrating the thalassocracies that once dominated the region's history. Each note showcases intricate designs featuring ancient seafaring empires like Srivijaya and Majapahit, whose influence extended across vast trade routes connecting distant shores. The detailed illustrations depict majestic ships, bustling port cities, and cultural symbols that highlight the power and prosperity brought by these maritime states. The series reflects the deep historical significance of these empires in shaping regional commerce, culture, and diplomacy.

SERIES

Thalassocracies of Southeast Asia



Southeast Asia's thalassocracies, such as Srivijaya, Majapahit, and the Sultanate of Malacca, were powerful maritime empires that shaped the region's history through control of strategic trade routes. These seafaring states thrived on commerce, facilitating cultural and economic exchanges that connected the Indian Ocean with the South China Sea. Their dominance over maritime trade not only brought prosperity but also created a shared heritage of interconnected societies, emphasizing mutual benefit and collaboration across vast waters.

A shared currency themed around these thalassocracies would symbolize the collective history and economic strength of Southeast Asia. Such a currency could feature imagery of traditional ships, ancient port cities, and maritime motifs to celebrate the unity and cooperative spirit that defined these empires.

This theme would not only foster regional pride and identity but also inspire modern economic and cultural partnerships, underscoring the idea that the region prospers through interconnectedness and shared heritage.

In additon, the theme depicts the evolution of Southeast Asian unity and its connection to the world through trade.

Famous figures and iconic buildings are intentionally excluded so as to not be biased to any members state yet associable among Southeast Asians and also to ensure equal representation in the design as a common currency.

Made in Asean

Subtle watermarks and holographic elements are incorporated seamlessly, complementing traditional motifs and emblems, when combined, serves as both a functional currency and an educational piece.

5 Ancient maritime empires.

10 Later era of ancient maritime empire.

50 Colonial period in Southeast Asia.

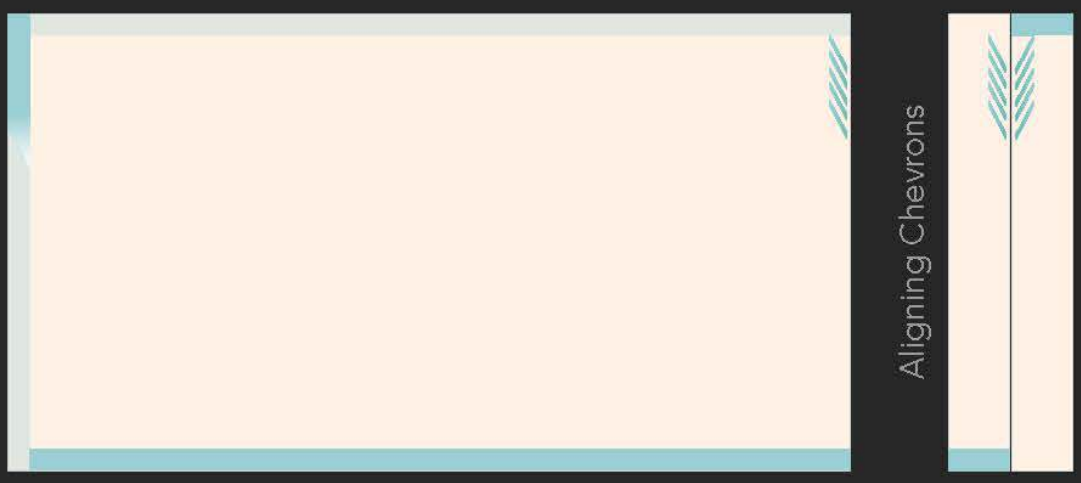
100 Formation of ASEAN and its role in regional trade among member states.

200 ASEAN's role within international trade due to its strategic location within the world's major shipping lanes.

Obverse
The hypothetical currency series features a dynamic map of Southeast Asia, capturing the shifting territories and boundaries of the region's thalassocracies across different historical eras. Each denomination showcases a unique time period, depicting how power and influence moved throughout the centuries.

1. Ultraviolet ASEAN Logo
2. Guilloched Denomination
3. ASEAN Languages
4. Ultraviolet ASEAN Territories
5. Port Cities; Omron rings
6. ASEAN Metallic Stripe
7. Braille Alphabet
8. Serial Number

Print Accuracy Indicators[2]



Seamless Constituting Boundary

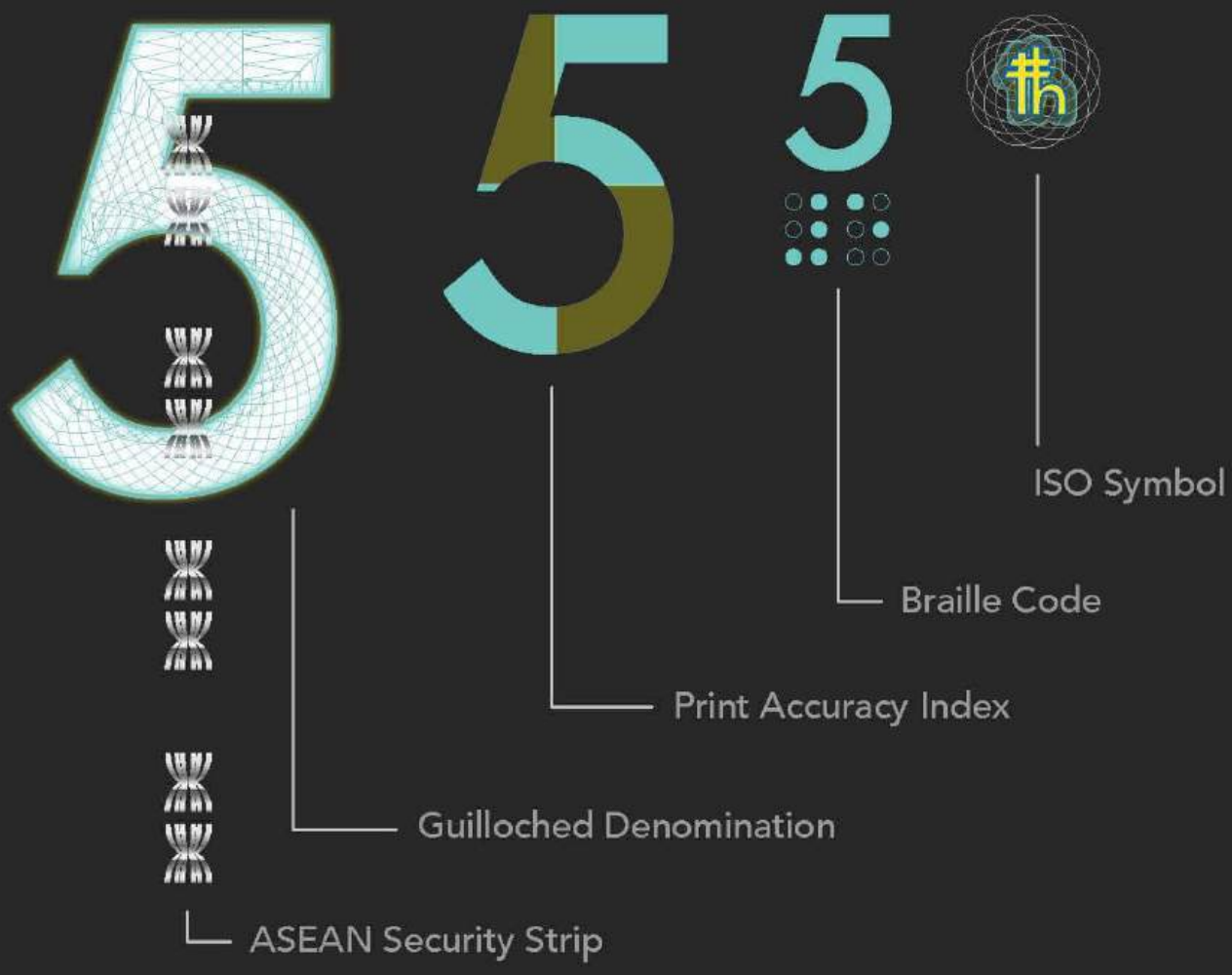
Serial Numbering[1]

Reverse

Presents a modern map of Southeast Asia, with economic nodes forming the centerpiece of a security patch, symbolising interconnected trade that drives regional growth. This intricate security patchnot only serves as an anti-counterfeiting measure but also reinforces the theme of regional unity and collaboration.

Highlighting ASEAN's pivotal role, its name is inscribed in the national language of each member state, emphasizing unity and inclusivity. Subtle shades depicting milestone events reflect key historical eras, showcasing the region's journey toward economic strength and integration.

1. Southeast Asia Milestone
2. ASEAN Logo
3. Guilloched Denomination
4. Metallic Denomination
5. ASEAN Languages
6. Currency Symbol



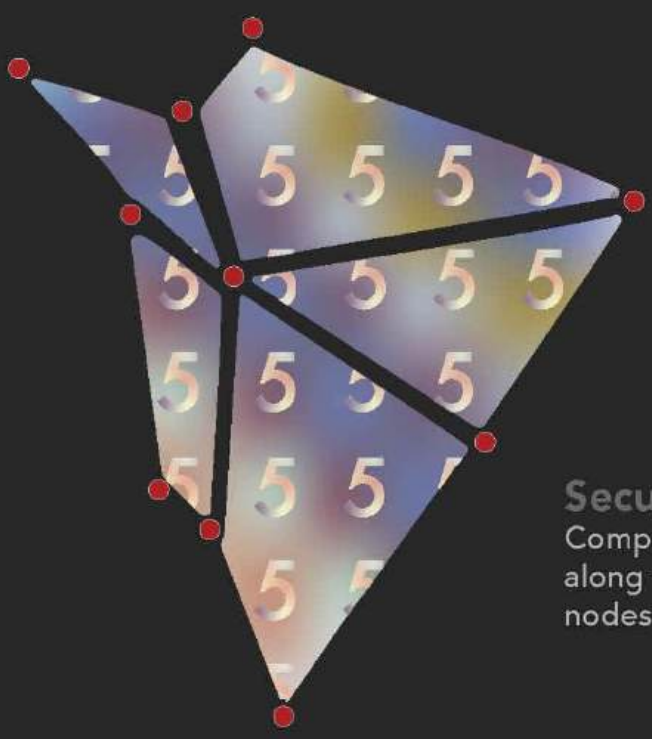
Asian Development Bank

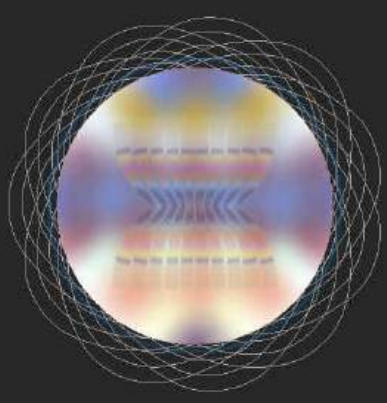
Bank Pangembangan Asian
Bank Pembangunan Asian
Asyano Pagbuo ng Bangko
Ngân hàng phát triển châu Á
ธนาคารเพื่อการพัฒนาแห่งเอเชีย
ஆசிய அபிவிரூத்தி வங்கி
ធនាគារអភិវឌ្ឍន៍អាស៊ី
အာရဖွံ့ဖြိုးရေးဘဏ်
ທະນາຄານພັດທະນາອາຊີ
亚洲开发银行

2019 Antonio Sanolo
President
Asian Development Bank

ASEAN's Asian Development Bank

Comprises of ASEAN's organisation flag, along with an array of translation of the bank's names in the national language of each member state





Security Patch

Comprises of ASEAN's organisation emblem, along with a mapped port cities as economic nodes form the centerpiece of the security patch.

Layer Sequence

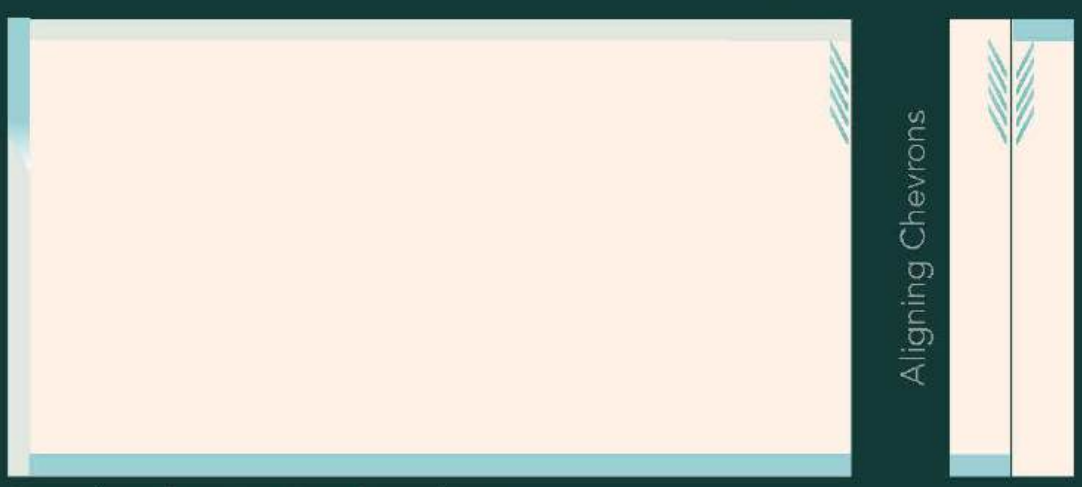
Security Features

Obverse

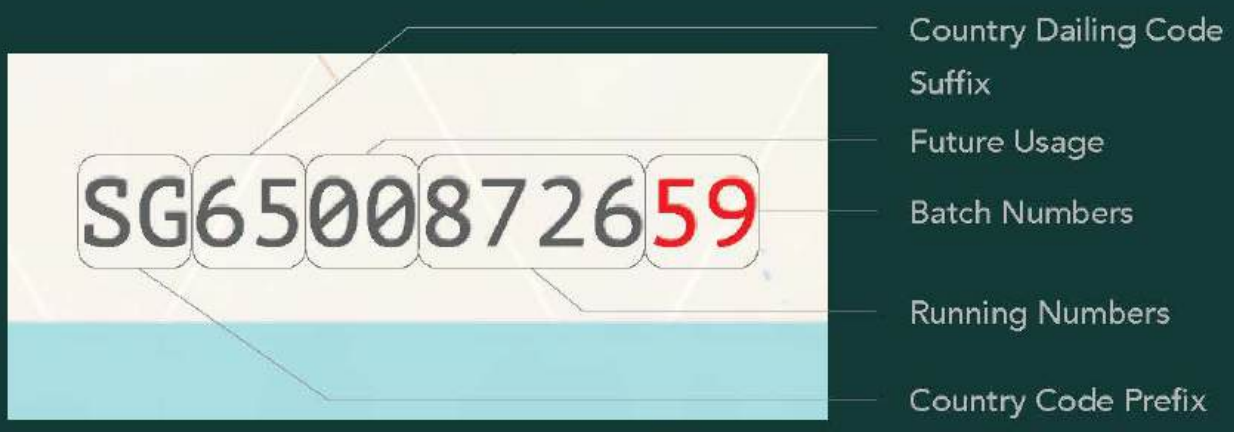
The hypothetical currency series features a dynamic map of Southeast Asia, capturing the shifting territories and boundaries of the region's thalassocracies across different historical eras. Each denomination showcases a unique time period, depicting how power and influence moved throughout the centuries.

1. Serial Number
2. Ultraviolet ASEAN Logo
3. Guilloched Denomination
4. Ultraviolet ASEAN Logo
5. Ultraviolet ASEAN Territories
6. Major Port Cities as Omron rings
7. Transparent Ultraviolet Denomination
8. Transparent Guilloched Symbol
9. Braille Alphabet

Print Accuracy Indicators[2] Polymer



Serial Numbering[1] **Polymer**



Reverse

Presents a modern map of Southeast Asia, with economic nodes forming the centerpiece of a security patch, symbolising interconnected trade that drives regional growth. This intricate security patchnot only serves as an anti-counterfeiting measure but also reinforces the theme of regional unity and collaboration.

Highlighting ASEAN's pivotal role, its name is inscribed in the national language of each member state, emphasizing unity and inclusivity. Subtle shades depicting milestone events reflect key historical eras, showcasing the region's journey toward economic strength and integration.

1. Southeast Asia Milestone
2. ASEAN Logo
3. Guilloched Denomination
4. Transparent Denomination
5. ASEAN Languages
6. Currency Symbol

Asian Development Bank
Bank Pangembangan Asian
Bank Pembangunan Asian
Asyano Pagbuo ng Bangko
Ngân hàng phát triển châu Á
ธนาคารเพื่อการพัฒนาแห่งเอเชีย
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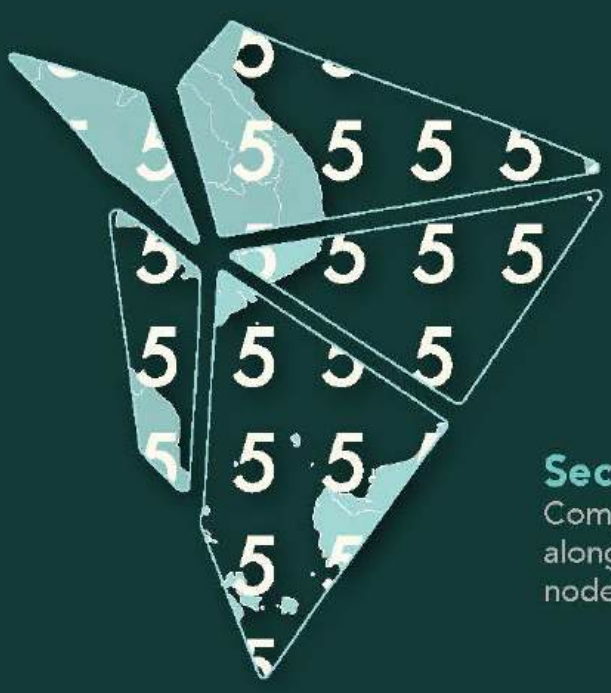
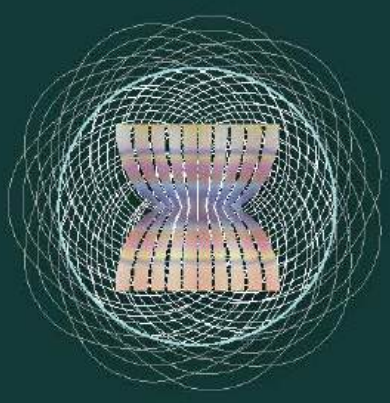
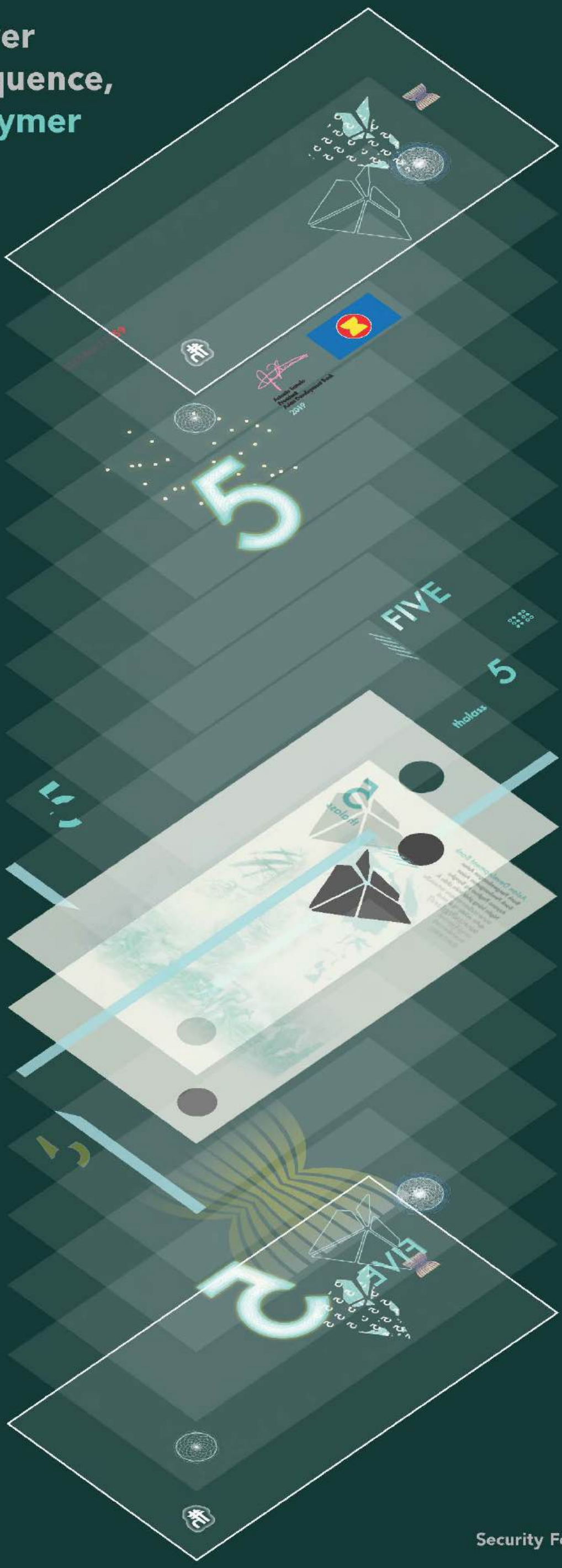




Security Patch

Comprises of ASEAN's organisation emblem, along with a mapped port cities as economic nodes form the centerpiece of the security patch.

Layer Sequence, Polymer



Security Features

Obverse
120mm x 65mm

Ancient Empires, Ancient Major Ports c.1300

Reverse
120mm x 65mm

Ancient Maritime Transport, Trading Posts c.1300

Obverse
120mm x 65mm, Polymer
Ancient Empires, Ancient Major Ports c.1300

Obverse
130mm x 70mm

Ancient Empires, Ancient Major Ports c.1500

Reverse
130mm x 70mm

Ancient Maritime Transport, Trading Posts c.1500

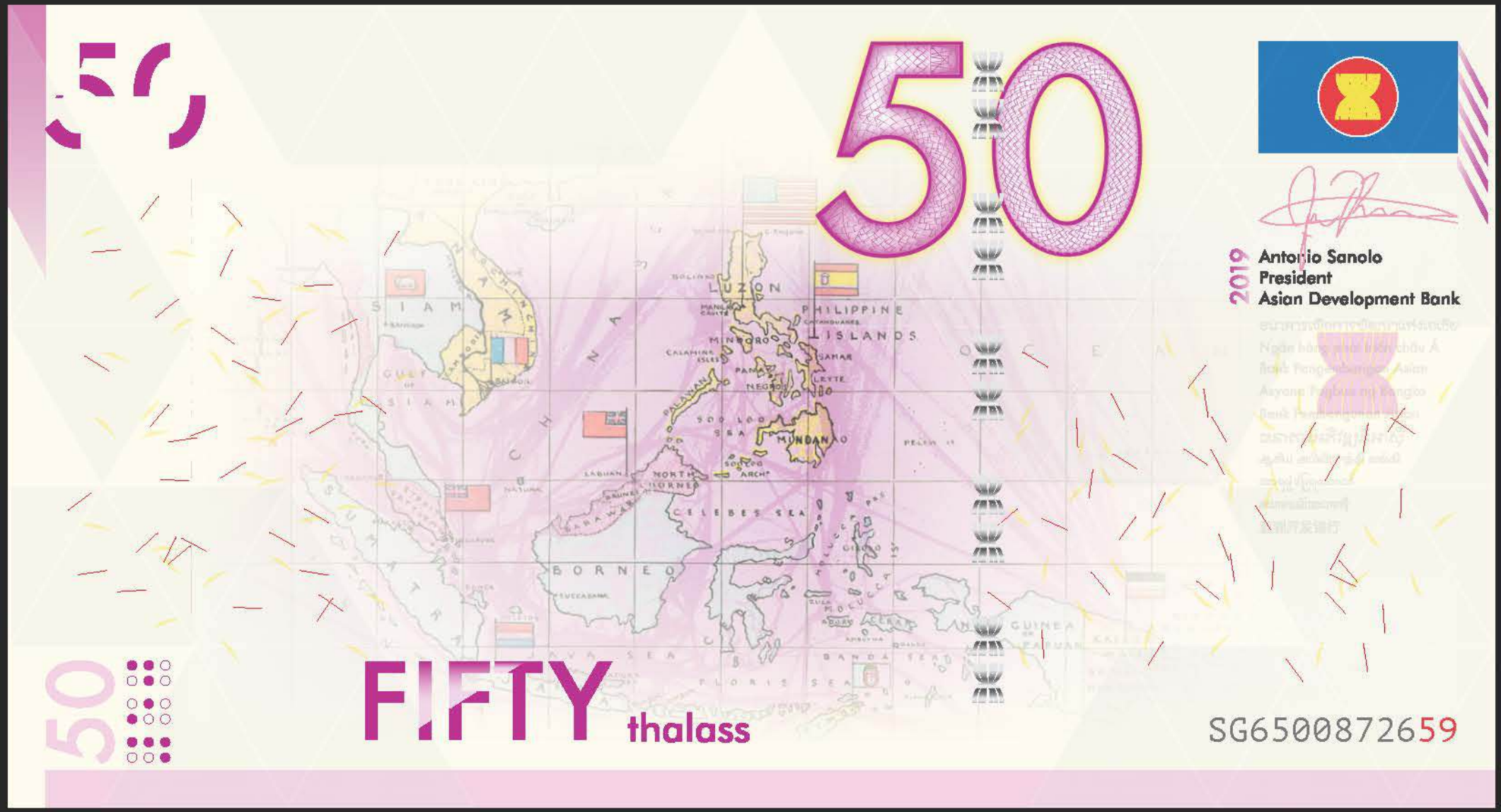
Obverse
130mm x 70mm, Polymer

Ancient Empires, Ancient Major Ports c.1500

Reverse
130mm x 70mm, Polymer

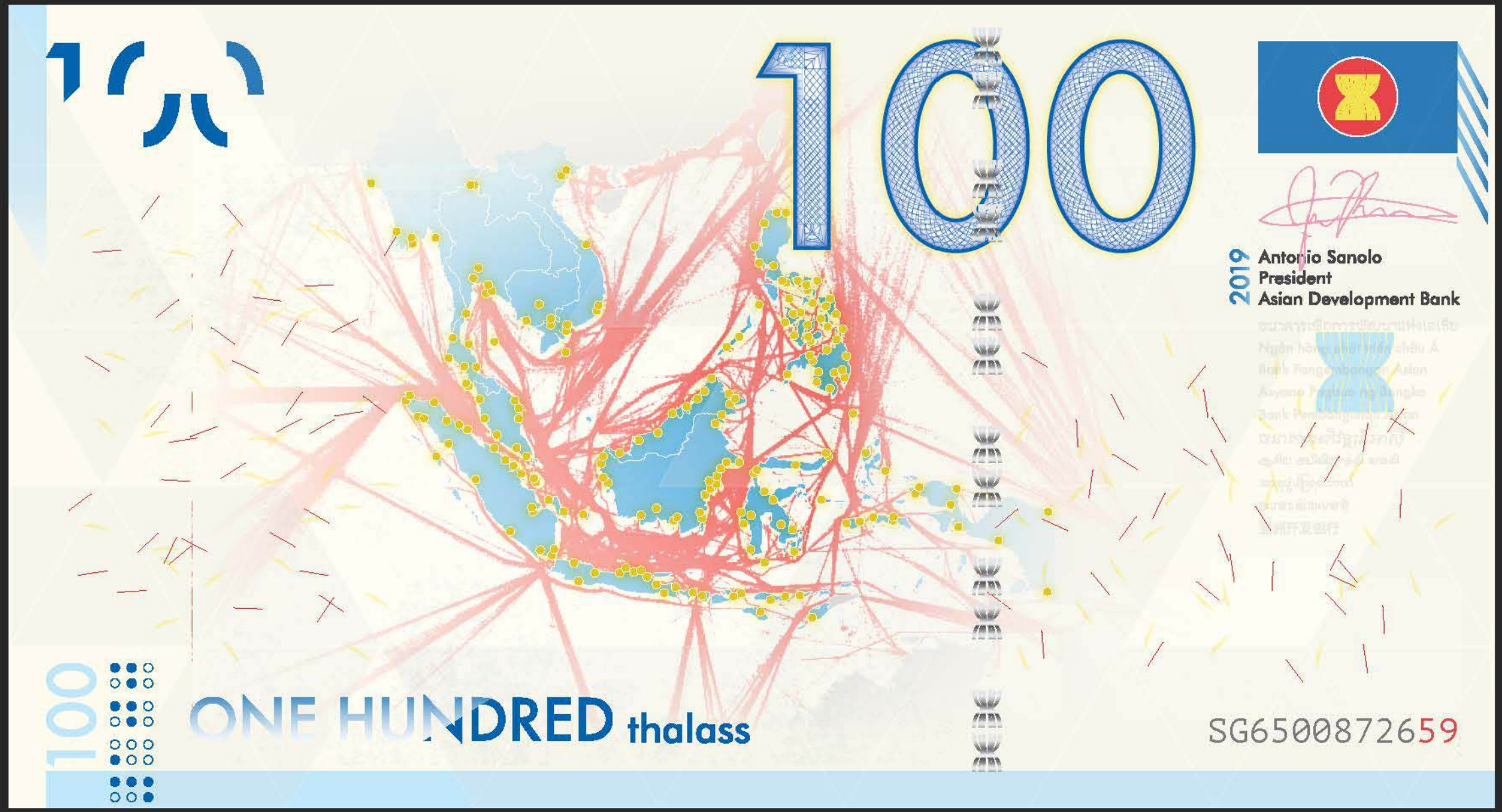
Ancient Maritime Transport, Trading Posts c.1500

Obverse
140mm x 75mm
Colonisation

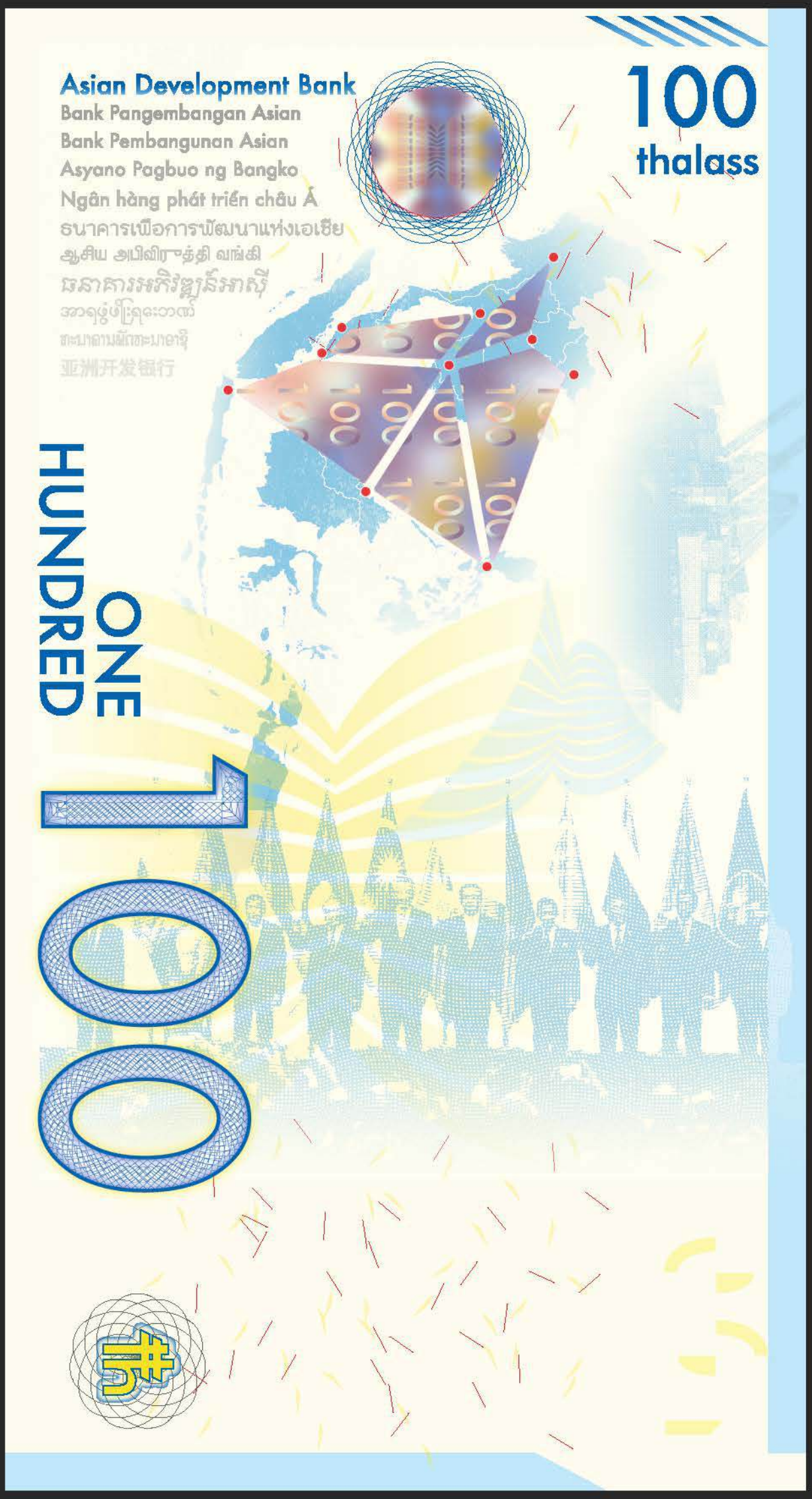


Reverse
140mm x 75mm
Colonial Trade Influence

Obverse
150mm x 80mm
Major Ports, Trade Routes within ASEAN FTA



Reverse
150mm x 80mm
ASEAN - Capitals, FTA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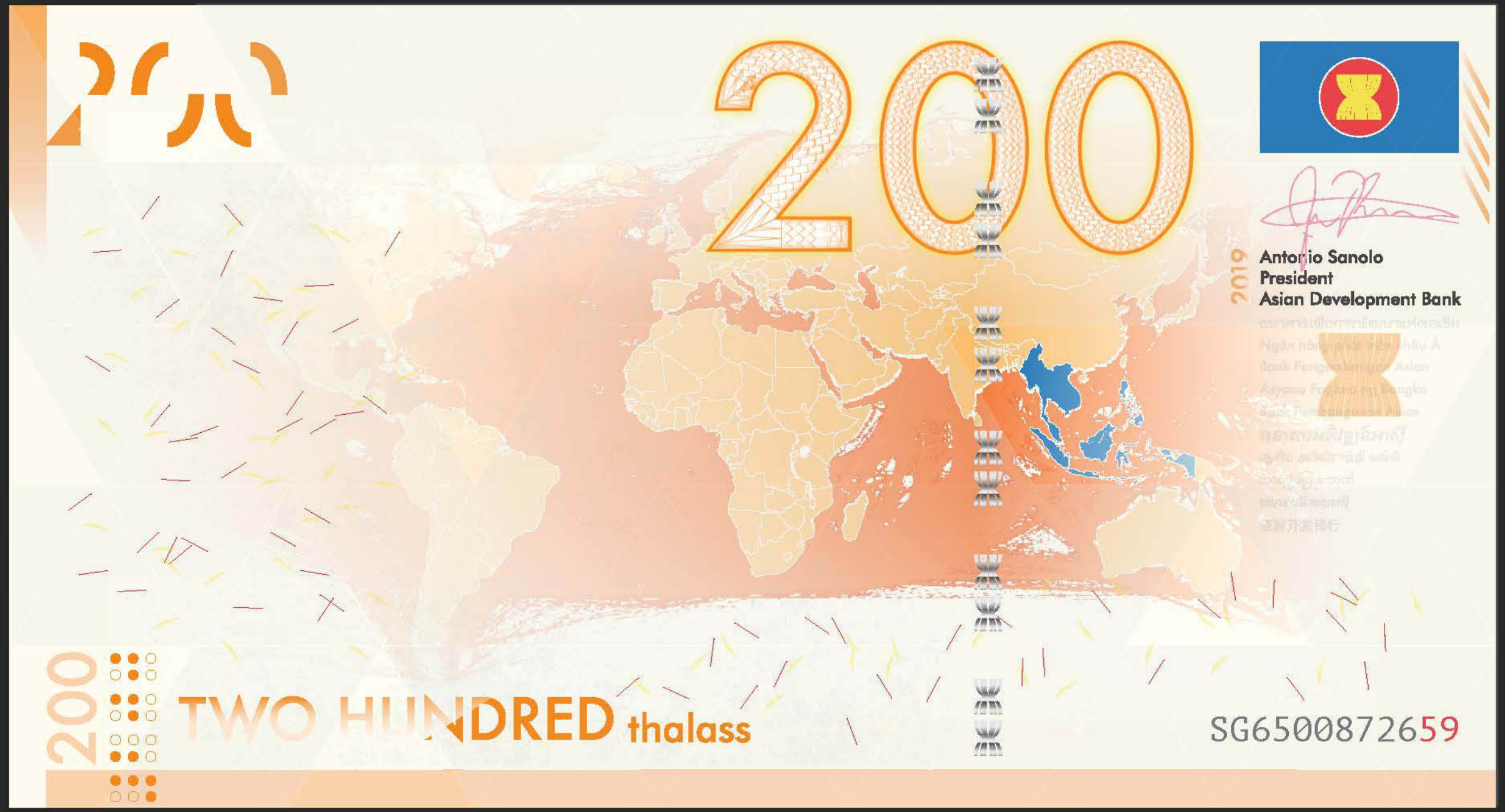
ธนาคารพัฒนาเอเชีย
亚洲开发银行
100
thalass
ONE HUNDRED
100
100
100

Obverse
160mm x 85mm

World Trade Routes - ASEAN's Integration to World Economy



Reverse
160mm x 85mm

ASEAN - Capitals, Stocks Market Trading

SPECIAL

Isuzu. D-Max.

An Isuzu show, bold and grand,
Proves its cars conquer every land.

ISUZU

SINGAPORE
MOTOR SHOW 2020

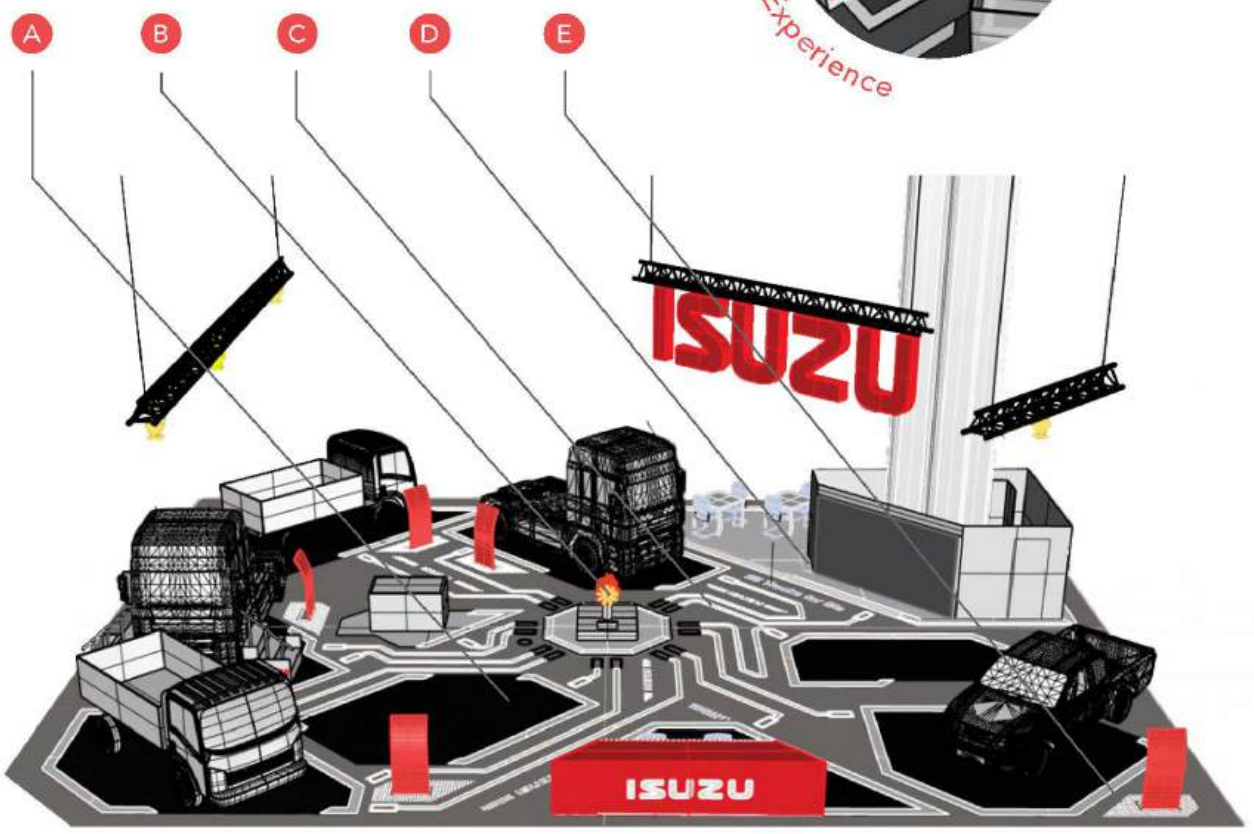
The Singapore Motorshow is the premier automotive event showcasing the latest vehicle models, innovative technologies, and interactive experiences.

It brings together car enthusiasts, industry leaders, and the public to celebrate automotive excellence and advancements.

Colour, Material, Finishing

SINGAPORE MOTORSHOW '20

Sit-In Experience



4000 sqft

Layout is built resembling a circuit board, figuratively implying the centrally located engine as the product line's beating heart. Vehicles are parked on various printed textures, signifiying Isuzu's trucks ruggedness and its ability to handle most types of difficult terrains.

A Space for Sponsors

B Engine Exhibit

C Branding Trail

D Partition Wall

E Spec Stand Perforation

SPATIAL

Arconati. Living within a Gallery.

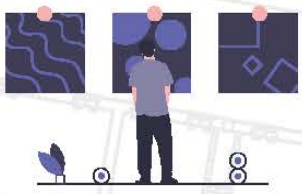
A villa reborn, once in decay,
Now an art gallery, drawing crowds each day.

New Ways of Living

Living Without Doors

Apartment #24 Double Floor

Living in a Tree

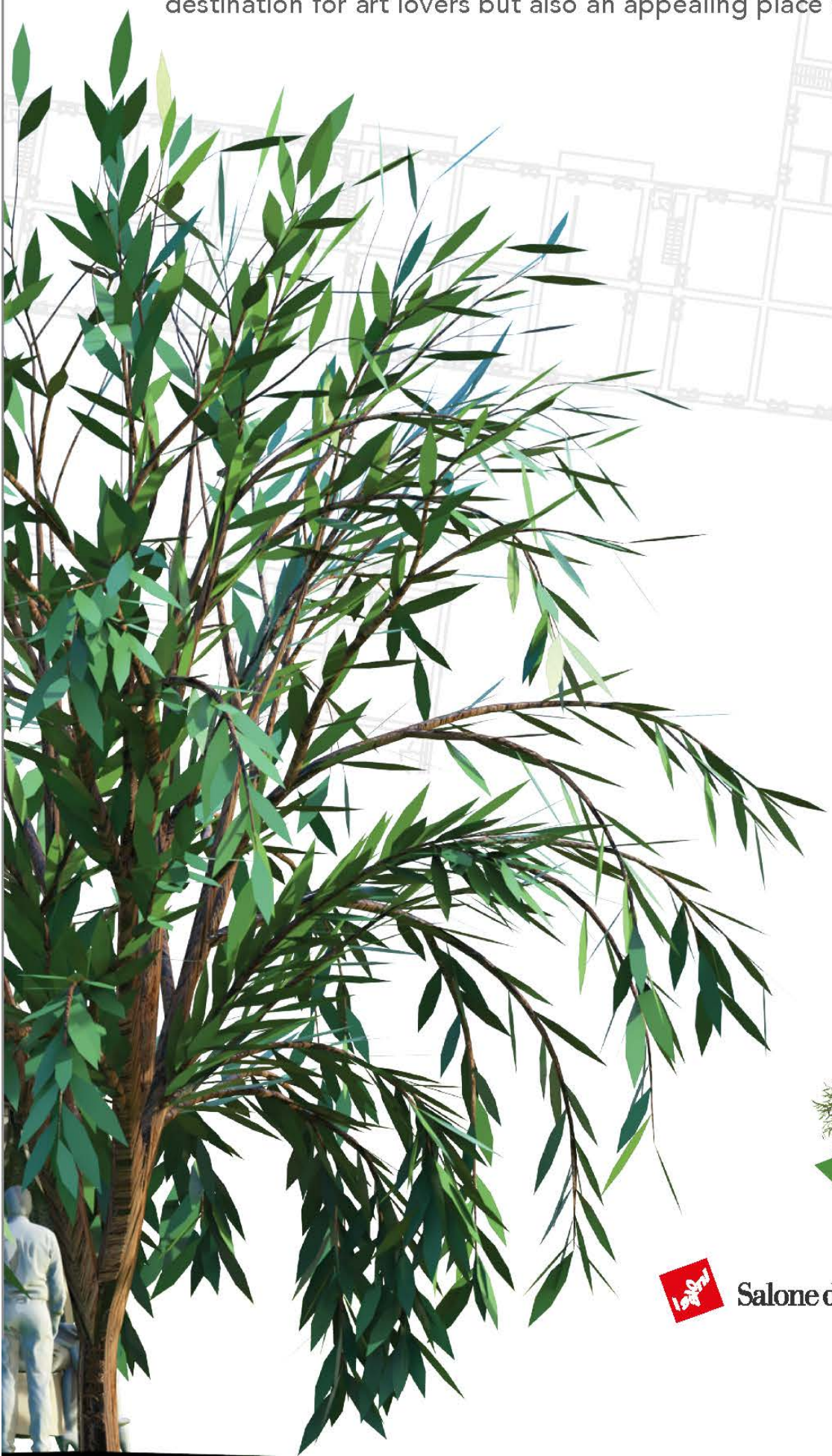


Living in a Gallery

Gallery as
Client Engagement

The project involves transforming a dilapidated villa into a vibrant art gallery, breathing new life into the historic structure and making it a cultural centerpiece. This revitalization aims to preserve the architectural integrity of the villa while reimagining its spaces to showcase contemporary and traditional artworks.

The gallery will feature rotating exhibitions, workshops, and events, creating a dynamic environment that attracts visitors and fosters local engagement. By integrating modern amenities and artistic elements, the project seeks to make the villa not only a destination for art lovers but also an appealing place to live.



Salone del Mobile. Milano

Featured In

Auditor by Day, Artist by Night

Front

A typical day for an artist residing on the second floor might begin with an early morning routine of coffee and quiet reflection on her private terrace, overlooking the villa's historic grounds.

Exhibit at the Bottom, Live at the Top

Right

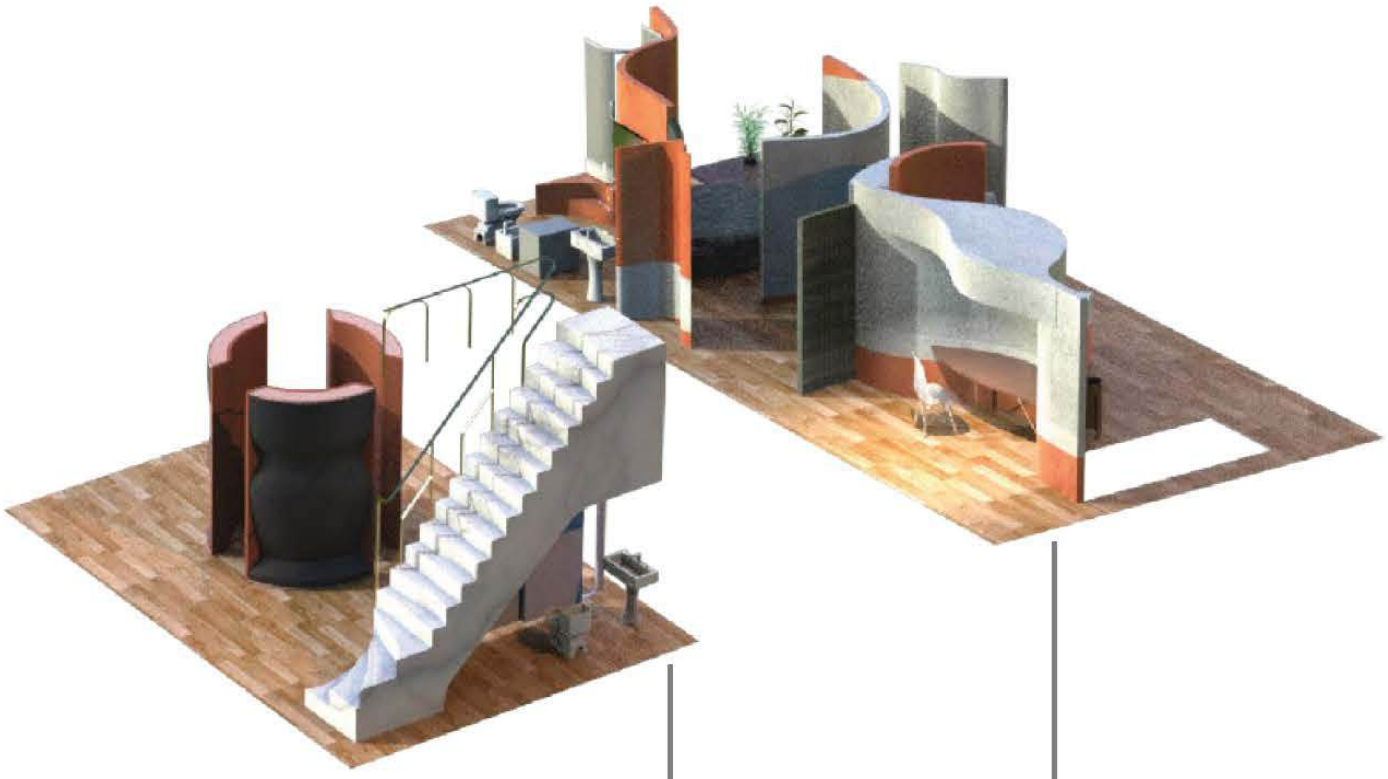
The second floor, designed as a private living space, offers a peaceful retreat with an open studio for working on new pieces in a space filled with natural light streaming through large, vintage

Mid Morning Transitions to Exhibitions

As the gallery on the first floor opens to the public, the artist moves downstairs, where she greets visitors and provides insights into her work and current exhibitions.

Throughout the day, she might conduct workshops in an adjoining room, teaching painting techniques or creative concepts to eager participants.

Afternoon hours may be dedicated to guided tours, allowing her to share stories behind her art, fostering connections with patrons and enthusiasts.



Floor 1
Exhibition Area
Public Space

Floor 2
Living Quarters
Private Space

In the early evening, the gallery may host an event such as a small artist talk or a cultural showcase. This allows her to live and breathe her art while connecting her life to her work, where her home becomes a living gallery that blurs the lines between personal space and public creativity.

The result is a lifestyle that harmonizes private artistry with community engagement, enriching both her own experience and the cultural fabric of the villa's visitors.

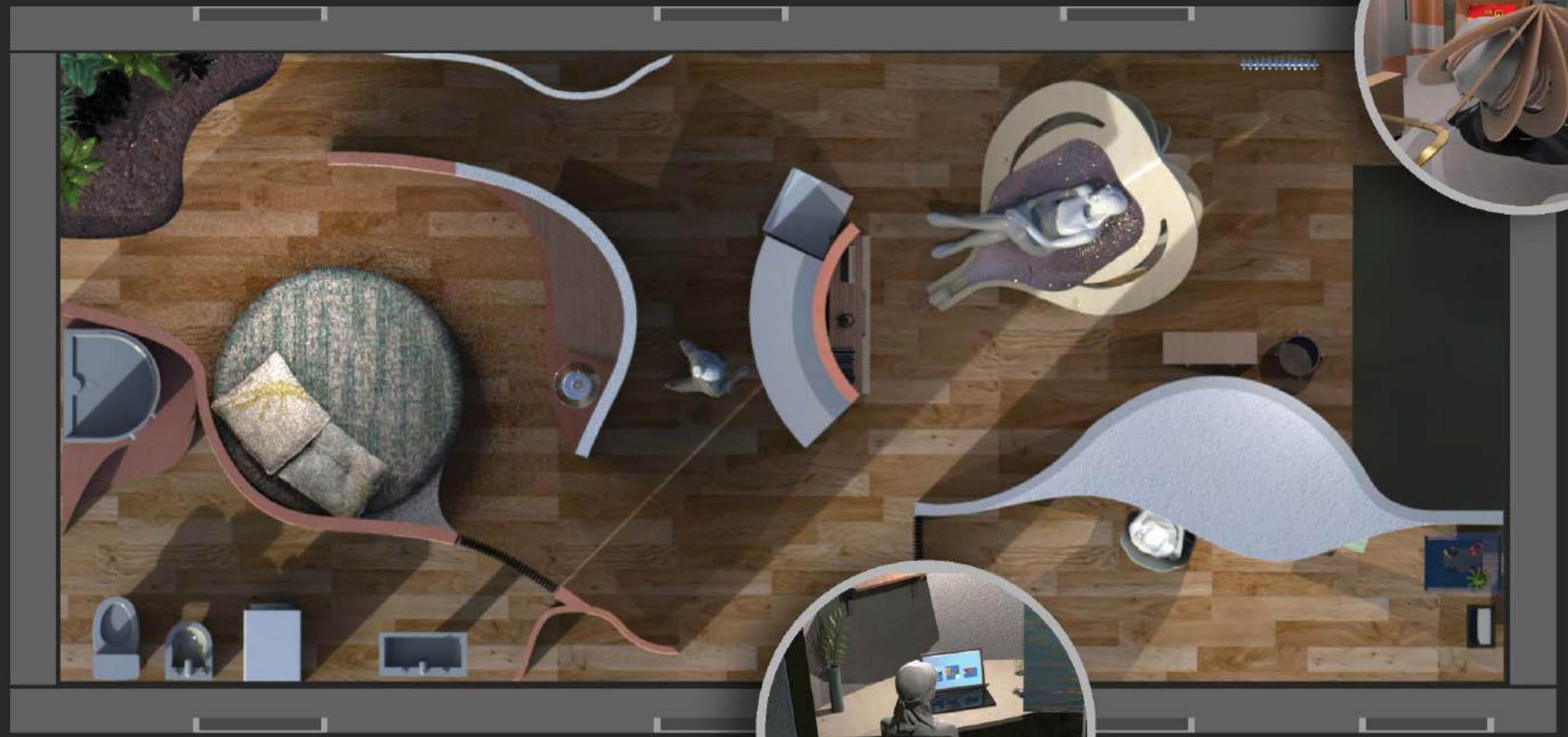
Integrating Life with Nature

Artistic Expressions

Inspiration through Entertainment

Culinary Experiments

Floor 2 Top View

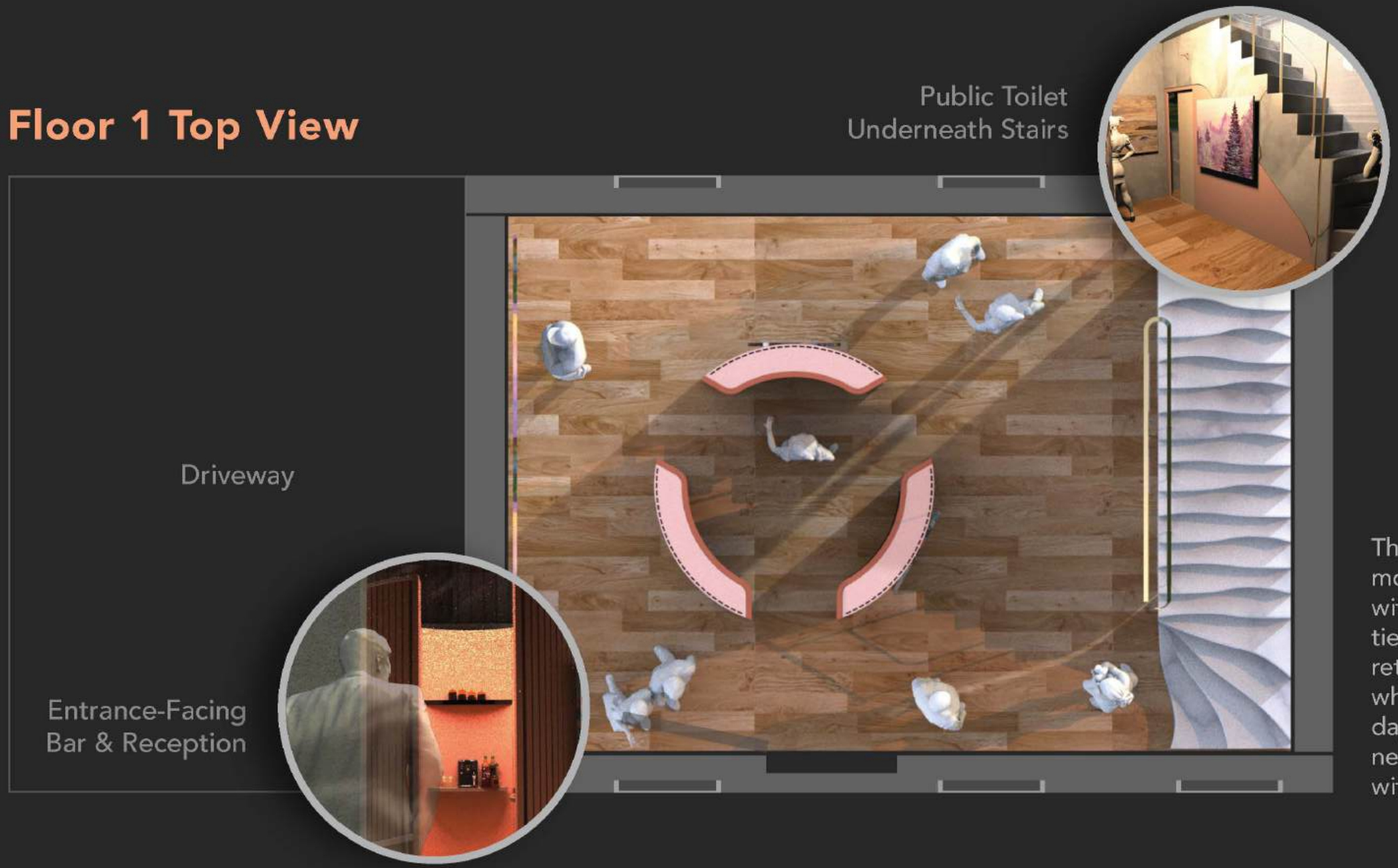


First Look Upon
Entering Private Space

Web Browsing At Night

As the event winds down, she returns to her second-floor sanctuary, where she unwinds and reflects on the day's interactions, often sketching out new ideas inspired by conversations with visitors.

Floor 1 Top View



The artist's involvement could include moderating discussions or engaging with attendees to build community ties. As the event winds down, she returns to her second-floor sanctuary, where she unwinds and reflects on the day's interactions, often sketching out new ideas inspired by conversations with visitors.

DATA VIZ

Sea of Life

A chart with fish at each depth,
Shows life where the ocean takes breath.

NATIONAL MUSEUM *of* NATURAL HISTORY

Smithsonian

<Depth>
As a key focus
As a defining categorising term

<Goal>
Enlarge capabilities current database
Reach out to more audiences

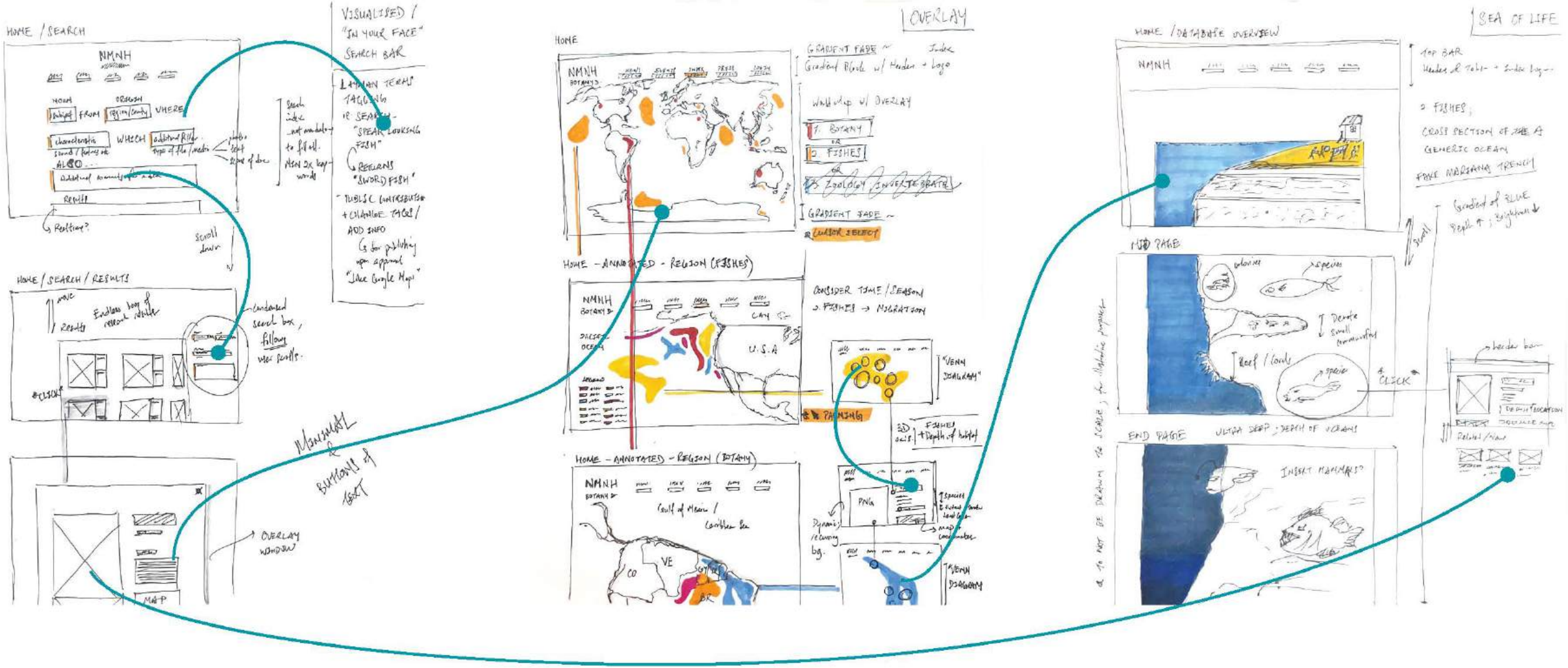
The Smithsonian fish collection is one of the world's largest, with over 6 million specimens. This extensive collection serves as a crucial resource for scientific research and conservation efforts.

In this project, we dive into crafting a visualisation that uses depth as its main theme of illustrating the diversity of our oceans.

By using the depth data gathered from each fish, we move beyond simple categorization and enhance the storytelling potential of the information. The aim is to provide readers with an intuitive glimpse into the ecosystems of the deep, where various species coexist and thrive within overlapping environmental niches.

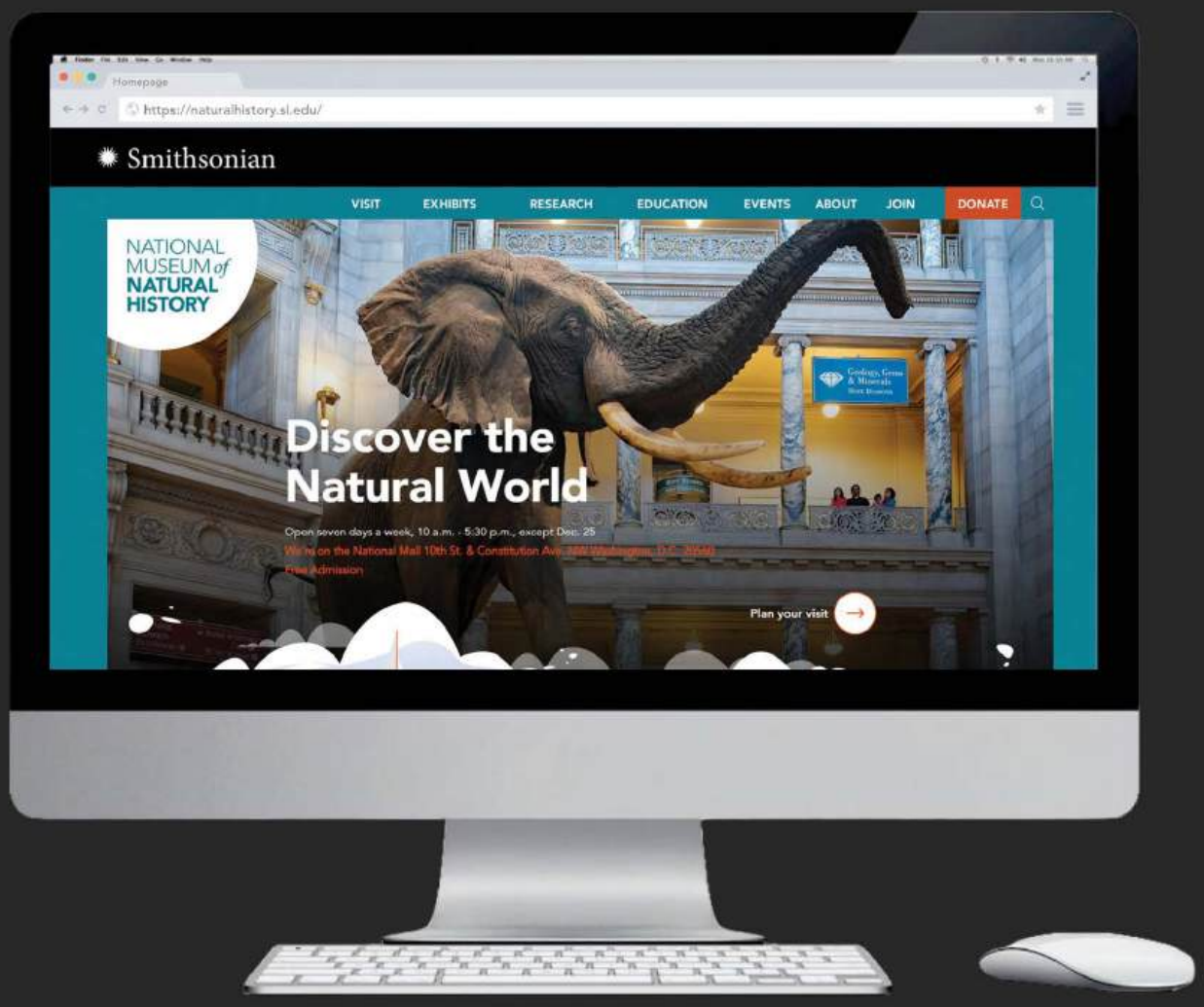
Through this approach, it deepens the audience's understanding of how biodiversity unfolds across different oceanic depths.

Vertebrate Zoology, Division of Fishes

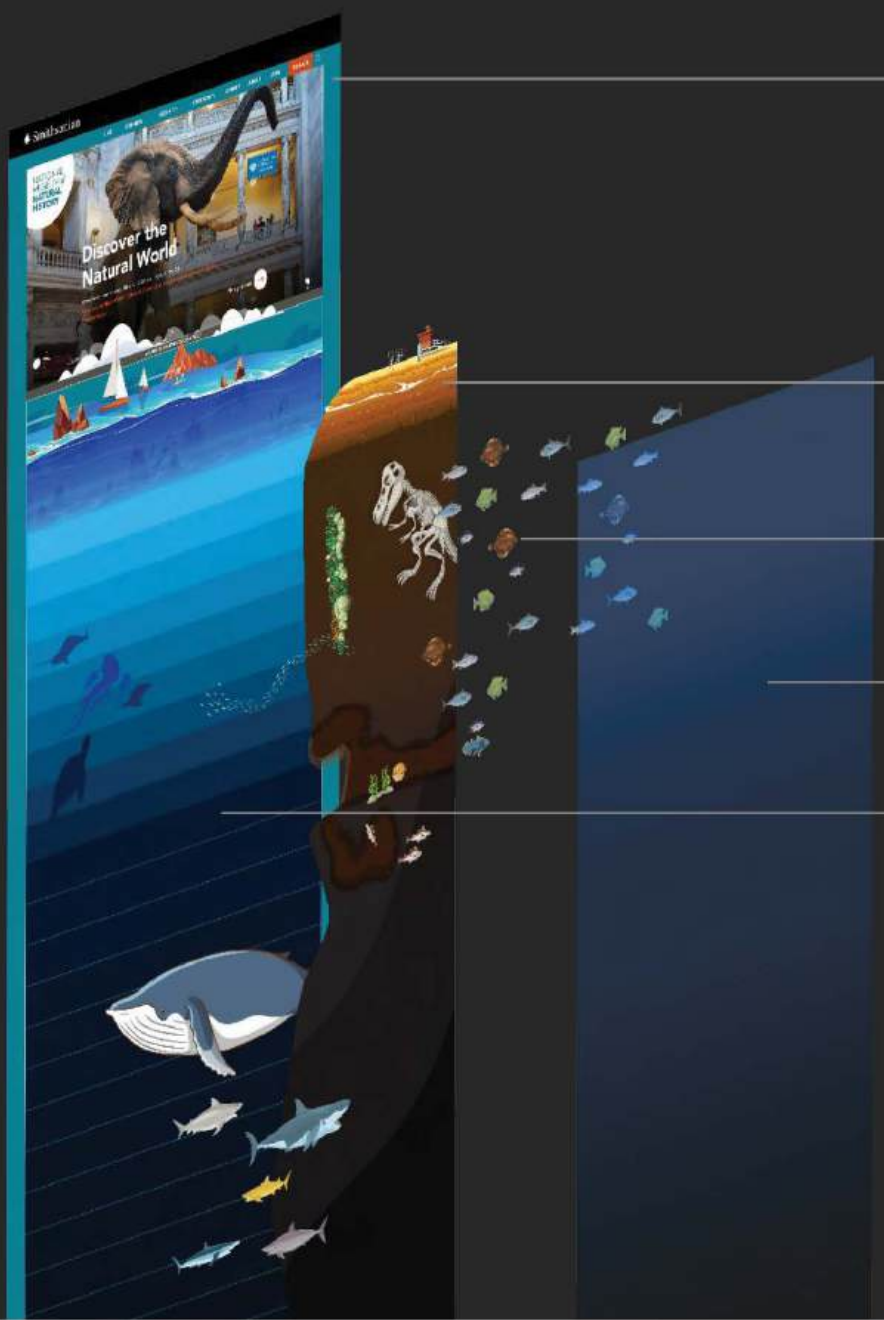


< Evolution of Categorising UI >

<Base> Smithsonian
<Overlay> Tabs
<Random, Data Dependent>



Using the existing Smithsonian branding language ensures consistency, making adaptation and future expansion seamless. This approach enhances recognition and streamlines integration across new projects and initiatives.



<Base>
Image Layer

<Land>
Image Layer

<Random, Data Dependent>
Sample Fishes

<Overlay>
Image Layer

<Parallax>
Image Layer

https://xuanx1.github.io
/major-studio-1-xuan
/quantitative_ex1_fishes_final

<Cross Section>

<Land>
<img"style" src="link">

<Sunlight Zone>

<Reef Fish>

// Load depth-data.json
// Filter depths 0-100m
// Sort Ascending
// Set image at depth interval

// Randomize colour, image size
// Limit to 50 images
// Populate at reefs
// Limit before deep sea

<Twilight Zone>

<Marine Cave Fish>
<Whales>

// img id="" class=""
// Style css
// Link to Github attachment
// Set open link upon click
// Open link in new tab

// Add parallax for whale
// Scroll = window.pageYOffset
// Get element by id
// Adjust multiplier values

<Bioluminescence Zone>

<Sharks>
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<Deep Sea Species>
<Squid>

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// Link to Github attachment
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// Open link in new tab

// Add parallax for whale
// Scroll = window.pageYOffset
// Get element by id
// Adjust multiplier values

<Octopus>
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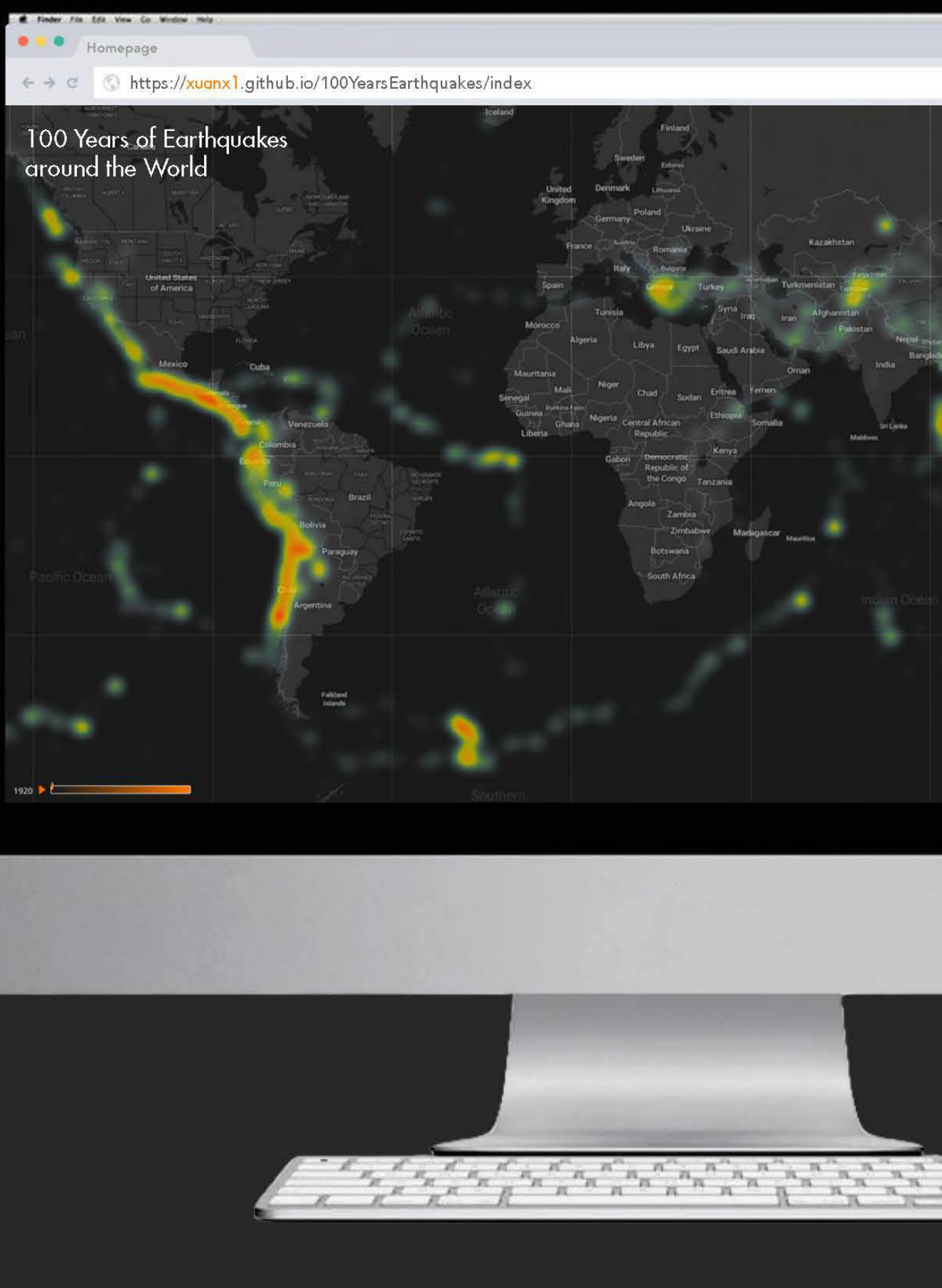
100 Years of Earthquakes around the World

A visualization mapping 100 years of earthquakes from 1923 to 2023 reveals a dynamic picture of global seismic activity, capturing the frequency, magnitude, and distribution of tremors across the planet.

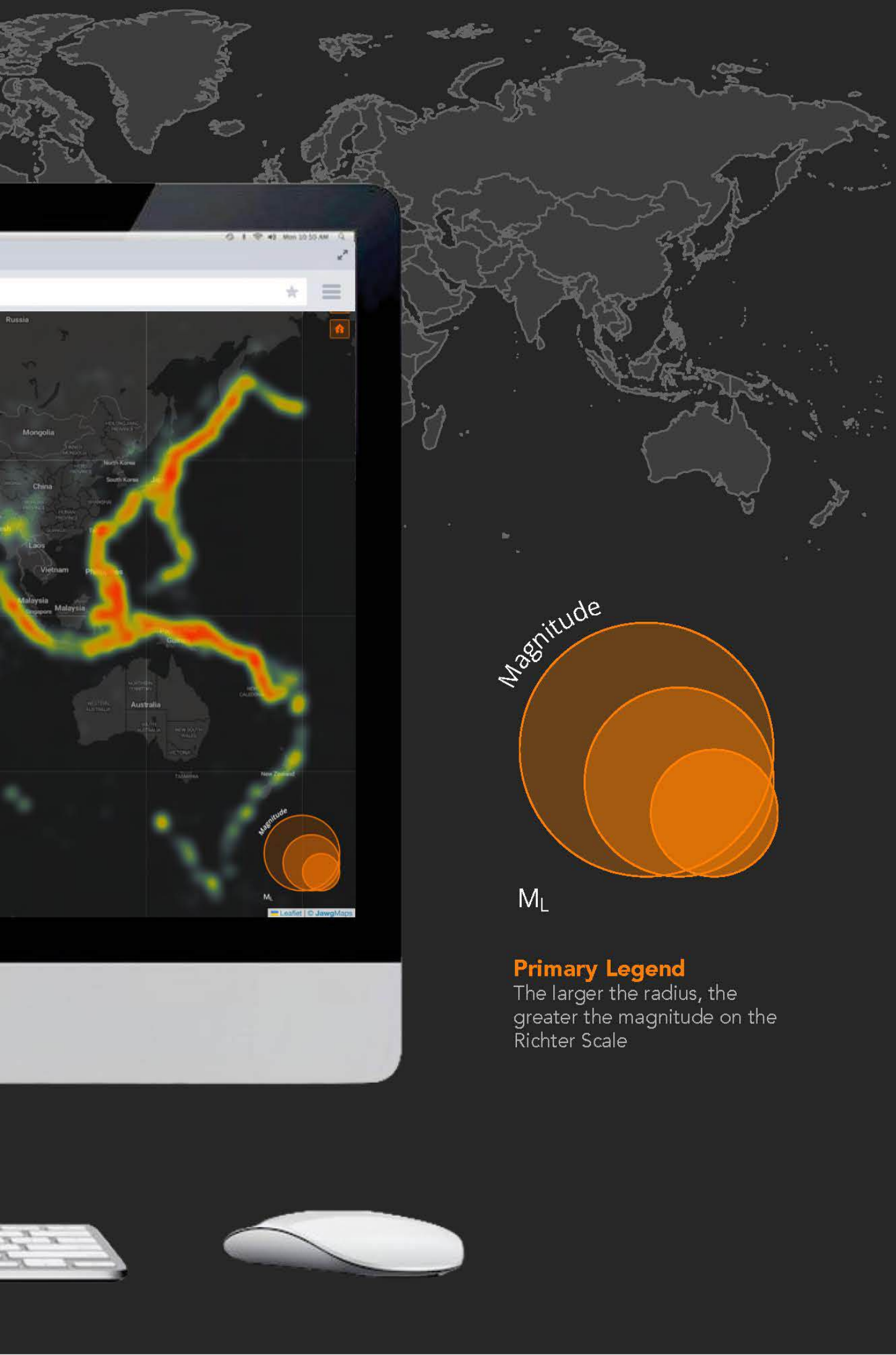
It includes a world map overlaid with color-coded points or circles, where each point represents an earthquake event, with larger circles and deeper colors indicating higher magnitudes.



Temporal progression highlights earthquake patterns by decade, showing clusters in tectonically active zones like the Pacific "Ring of Fire" and areas around major fault lines in Asia, North and South America, and parts of Europe.

2004

Interactive features, like zooming into specific regions or filtering by magnitude and year, allow viewers to explore areas of interest or significant historical events, such as the 1964 Alaska earthquake or the 2011 Japan earthquake. An animated time-lapse effect brings the visualization to life, illustrating how seismic activity has shifted or intensified over the century.



Primary Legend
The larger the radius, the greater the magnitude on the Richter Scale

Controls

Home
Flies the map back to Southeast Asia, home to the Ring of Fire

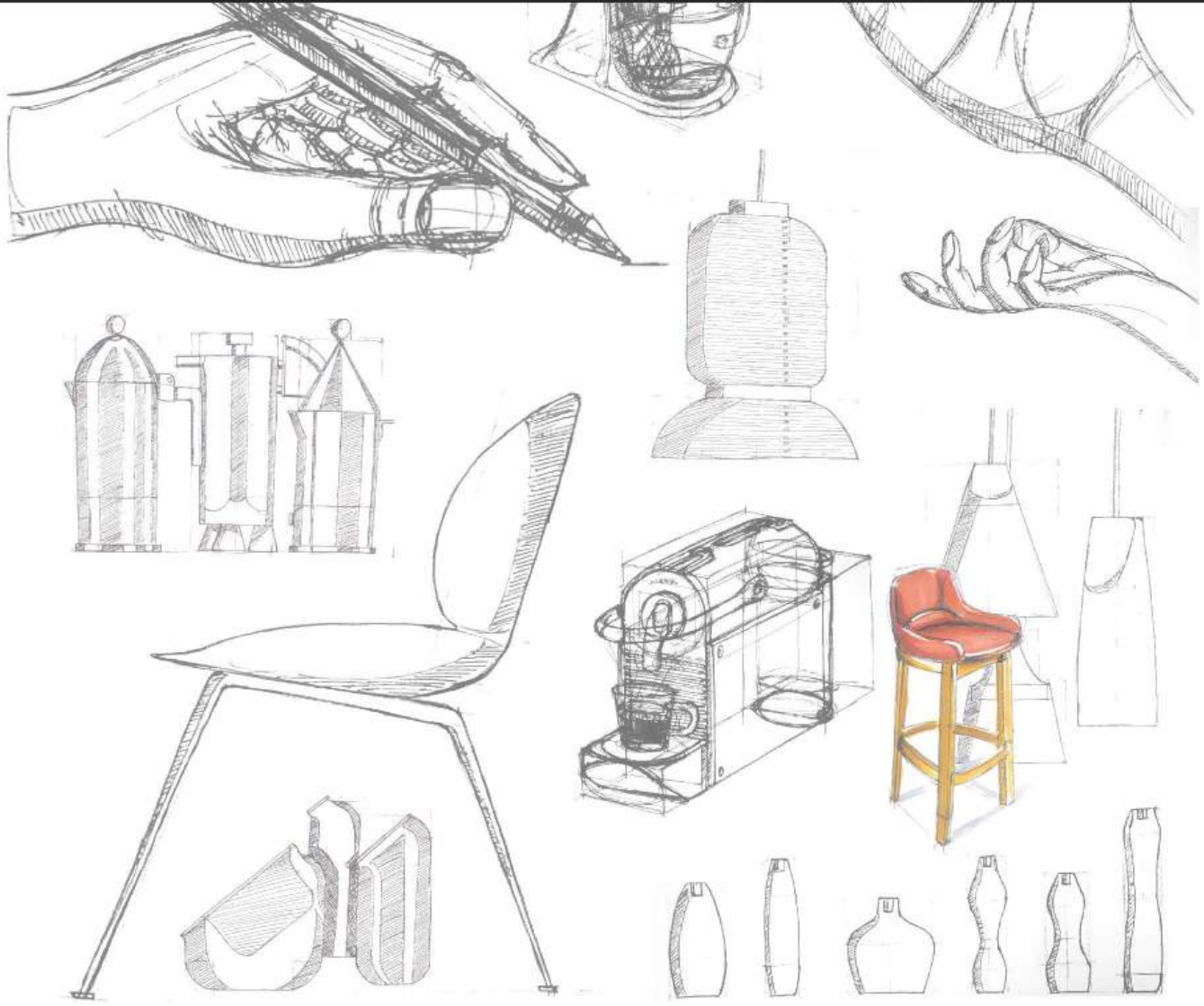
Heat Map Overlay
Toggles On / Off visibility of a Earthquake Heatmap

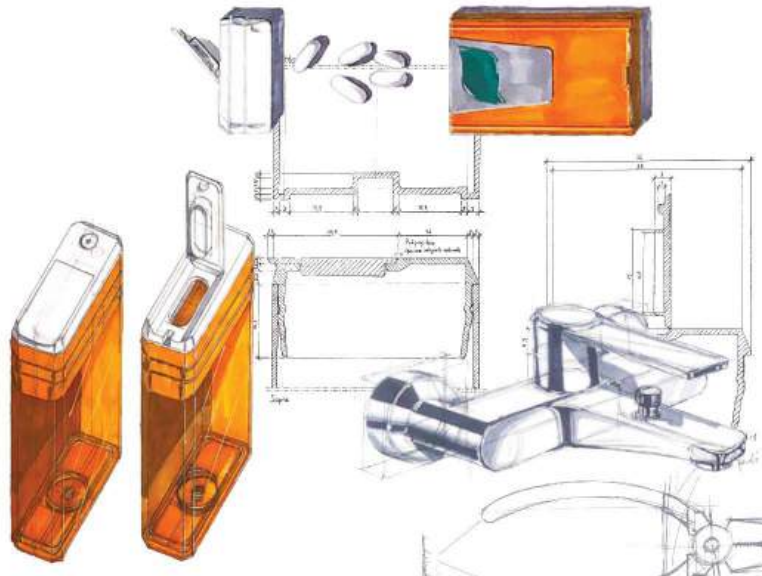
Earthquakes Location Overlay
Toggles On / Off visibility of Earthquake Locations

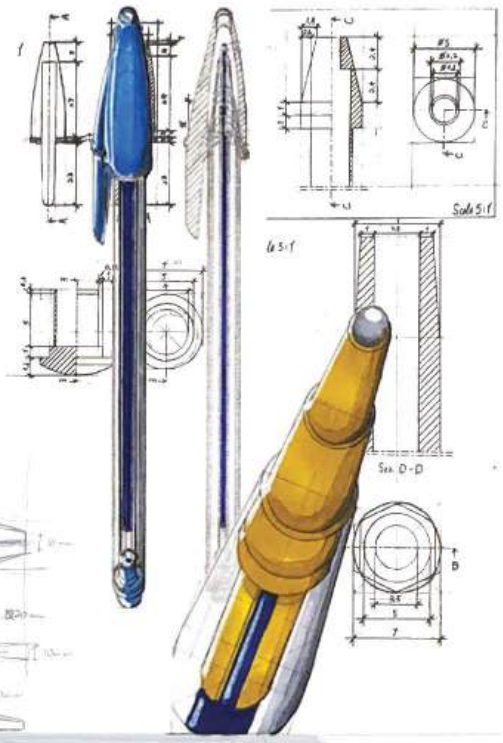
Gestures

Click
Toggles On / Off visibility of differnt layers.

Hover
Toggles On / Off visibility of the Tooltip, with detailed information of a specific earthquake.







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