SIRD #98
SOCIAL INVESTMENT ROUNDTABLE DISCUSSION

Social Investment Indonesia

Circular Economy and Waste to Value:

Mengubah Limbah Menjadi Solusi, Menciptakan Dampak Keberlanjutan



Basrie Kamba
Chair of Executive Board
Rantai Tekstil Lestari



Rendy Aditya Wachid
Chief Executive Officer (CEO)
Parongpong Recycle And Waste Lab



Jalal
Chairperson of Advisory Board
Social Investment Indonesia

Host:



Nur Astri Mufthia S.
Associate
Social Investment Indonesia

Jumat, 22 Mei 2026

15.00 - 17.00 WIB

socialinvestment.id

0813-8808-511

Via zoom @SocialInvestment_Id

MY STORY: FROM PARONGPONG VILLAGE, TO ROPPONGI

HOW PT. RAESAKA AMANAH WIDYAKARYA IS BUILDING SISA IN JAPAN



sisa®
ELEVATING
WASTE TO MATERIAL

MAY 2026

WWW.PARONGPONG.COM 2026

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GHOST NET TO BUILDING MATERIAL

PT. RAESAKA AMANAH WIDYAKARYA



JUNE 2026

WWW.PARONGPONG.COM 2026

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INTRO:

PT. Raesaka Amanah Widyakarya (Parongpong RAW Lab) is an Indonesian award-winning waste to material research based company, focused on sustainability, circular economy, and material innovation. We transform residual waste into circular materials by combining community empowerment, technology, and design. Our mission is to work with businesses and industries to create innovative solutions that reduce environmental impact and build decentralized circular systems.

PARONGPONG®
RECYCLE AND WASTE LAB

WINNER 2018 ENVIRONMENT CATEGORY WEST JAVA

WINNER 2020 BEST OF THE BEST

WINNER 2020 ACCELERATOR PROGRAM

WINNER 2020 INNOVATIVE COMPETITION AWARD

WINNER 2021 INNOVATION AWARD

WINNER 2021 & 2023 INNOVATION AWARD

G-MARK JAPAN 2023

TOP 3 FINALIST ASEAN BUSINESS AWARD 2023

WINNER CIRCULAR ECONOMY AWARD 2023

INNOVATION IN ESG AWARD 2024

SEMBRANI ACCELERATOR IMPACT 2024

WINNER OF TANGKI HIU ALA LOKAL STARTUP 2024

COHORT OF NINJA ACCELERATION PROGRAM 2024

CHALLENGE WINNER OF INDONESIA-JAPAN FAST PITCH 2024

CHALLENGE WINNER OF 2ST THAILAND 2025

CHALLENGE WINNER OF SEMARANG CITY FOR WASTE MANAGEMENT 2025

FIRST WINNER CSI CHALLENGE 6 BY ARUN 2025

CHALLENGE WINNER OF BLUE INNOVATIVE STARTUP ACCELERATION 2025

2024 FINALIST IN CIRCULAR ECONOMY

BEST DESIGN 2024 FOR JA-LAI PANELS

ASEAN BLUE INNOVATION CHALLENGE 2024 AWARDEE

BEST IMPACT ENTREPRENEUR ESG KEHATI AWARDS 2025

FIRST WINNER ESTABLISHED BUSINESS HOUSE VALU CHAIN INNOVATION BTN HOUSINGPRENEUR 2025

CHALLENGE WINNER & AUDIENCE FAVRITE OF MALAYSIA-JAPAN FAST PITCH 2025

WINNER PRODUCT INNOVATION FOR SUSTAINABILITY SMALL BUSINESS CATEGORY ANUGERAH AVIRAMA NAWASENA 2026

INDONESIAN COHORT FOR SUSHI TECH BY ERIA 2026

WINNER DBS FOUNDATION GRANT 2025

SUSTAINABLE DEVELOPMENT GOALS

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ABOUT PONG:

PARONGPONG®
RECYCLE AND WASTE LAB

THERE'S NO SUCH THING AS WASTE, ONLY MATERIAL OUT OF PLACE.

ᮕᮔ᮪ᮕᮧᮔ᮪ᮕᮧ

Parongpong (sundanese) :
totally zero, void, empty

The text "ᮕᮔ᮪ᮕᮧᮔ᮪ᮕᮧ" is written in **Aksara Sunda**, a traditional script used to write the **Sundanese language**, predominantly spoken in **West Java, Indonesia**.

🍭 Transliteration:

The characters represent:

- ᮕ = **pa**
- ᮔ = **ra**
- ᮧ = **o** (diacritic vowel attached to the previous consonant)
- ᮪ = **ng** (final consonant)
- ᮕ = **pa**
- ᮧ = **o**
- ᮪ = **ng**

So, the full transliteration is:

> **prongpong**

(usually written as **Parongpong** in Latin alphabet)

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ABOUT ME:



Rendy Aditya Wachid is **a waste-to- material researcher, sustainable architectural designer, and circular economy entrepreneur.** With a multidisciplinary background spanning architecture, business administration, circular business platforms, and solid waste management, Rendy has founded and co-founded multiple ventures under Parongpong Group. His professional journey bridges design innovation, environmental engineering, and community-driven sustainability, **earning him numerous national and international awards in circular economy, ESG innovation, and good design. T**hrough Parongpong and his other initiatives, Rendy advances regeneration **projects that integrate ESG principles, digital waste traceability, and inclusive approaches to environmental resilience, while championing responsible production and consumption.** in 2025 he's starting sisa as KK in TOKYO

DTU Danmarks Tekniske Universitet

Mondragon Unibertsitatea

Institut Teknologi Bandung 1920

La Faculté de la Technique Architecture

PARONGPONG® RECYCLE AND WASTE LAB

RAWHAUS

conture. concrete lab.

sisa® ELEVATING WASTE TO MATERIAL

OceanKita Marine Debris to Circularity

TRI·CYCLE

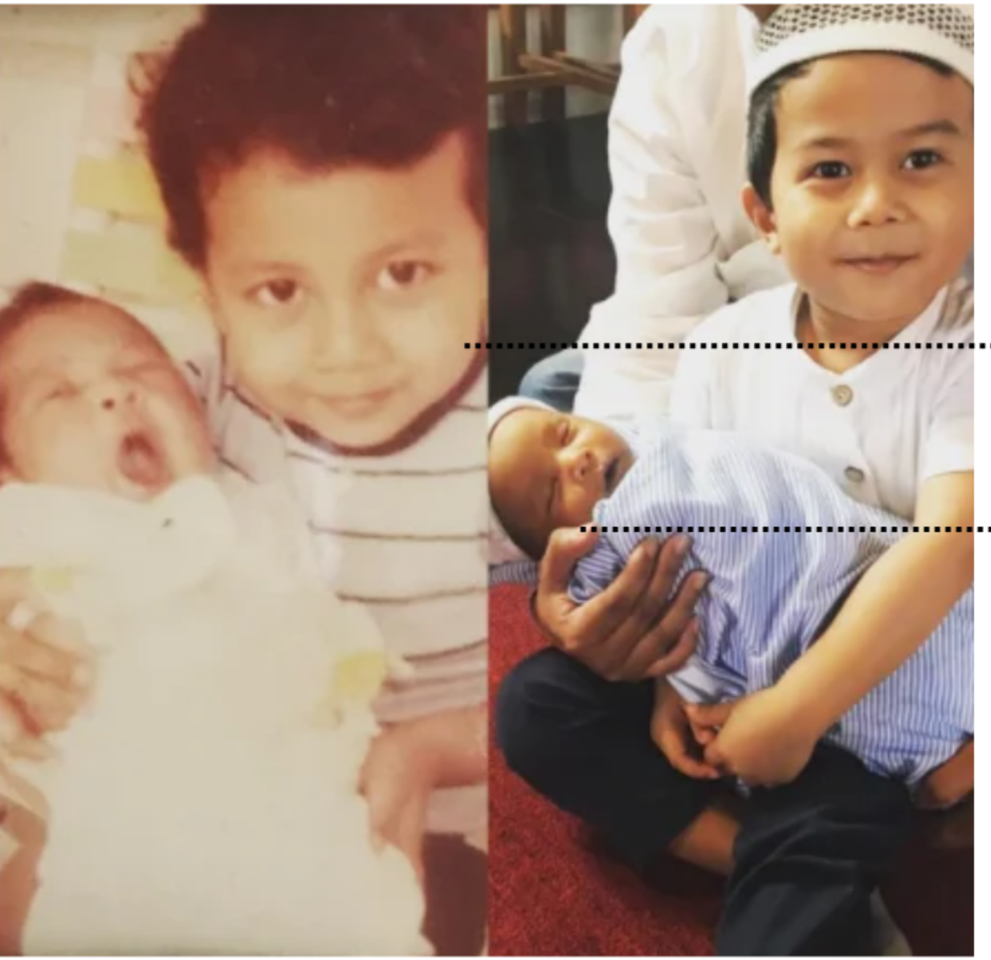
PURA

PaperPods

R.太.山 レンディア・アディティア・ワセッド

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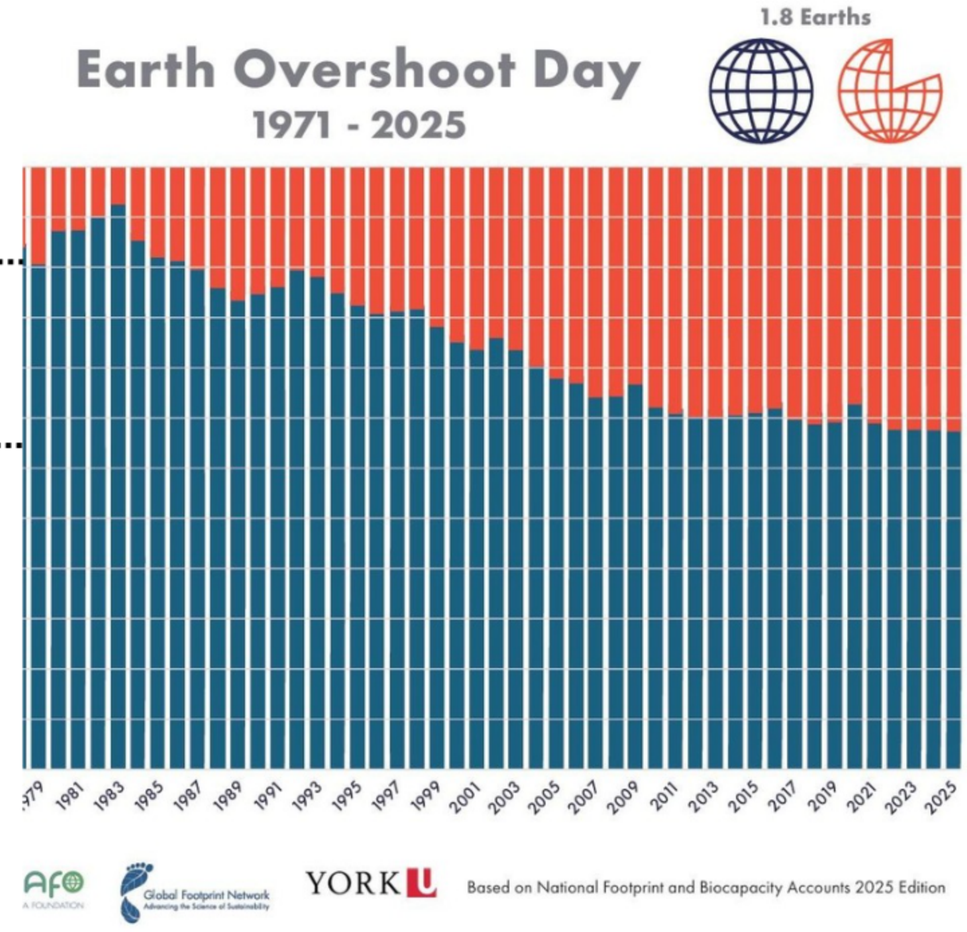
MY “IKIGAI” 生き甲斐 :



Sustainability is most often defined as **meeting the needs of the present without compromising the ability of future generations to meet theirs.**

1983 : DEC!
END OF THE YEAR

2019 : Jul 29!
MID OF THE YEAR



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WASTE VS MATERIAL

1. How to make throwaway culture, became a thing of a PAST:

Ghost nets haunt marine life in Malaysian marine park, study finds

ASHLEY YEONG
13 JUN 2024 ASIA OCEANS

Comments Share article



- *Ghost nets are lost or abandoned fishing nets that can take centuries to break down. In the meantime, they can damage delicate marine ecosystems and entangle and kill wildlife.*
- *In 2015, a local NGO started training volunteers to remove ghost nets washed up on the coral reefs and beaches of Tioman Island in Malaysia. The NGO also set up a hotline where anyone can report a ghost net sighting.*

Environment ▶ Climate crisis Wildlife Energy Pollution

Seascape: the state of our oceans Environment

Cigarette butts: how the no 1 most littered objects are choking our coasts

An estimated 4.5tn tobacco filters are littered each year and many end up in oceans with deadly consequences



'The cigarette butts themselves look like little fish': cigarette filters are gathered by Israeli volunteers in a mass beach clean-up city of Netanya in October 2020. Photograph: Jack Guez/AFP/Getty Images

2.How to build the PRESENT without sacrificing the FUTURE:

Hazards of marble mining

Though the marble industry provides employment to thousands of people and contributes substantially to the economy of the state, no attempts have been made to evaluate and table the social and environmental costs of marble mining, reports VIJAY MATHUR

By **Vijay Mathur** - February 19, 2020

Facebook Twitter Google+ Pinterest



WORLD ECONOMIC FORUM Join us Sign in

URBAN TRANSFORMATION

As construction accelerates globally, implementing sustainable building practices is critical

Feb 26, 2024



Construction tool cleaning can contribute to pollution
Image: Photo by henry perks on Unsplash

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WASTE TO MATERIAL

PT. RAESAKA AMANAH WIDYAKARYA

JAPINDA

■廃棄物を建築材料に再生させる企業

今回ご紹介するスタートアップは、廃棄物を建築材料へと再生し販売する Parongpong である。Parongpong の創業は 2017 年、建築家である創業者 Rendy Aditya Wachid さんが以前住んでいたバンドゥンの地名を社名に採用した。Rendy さんは以前から「資源を搾取し、生産、廃棄する」というサイクルに疑問を抱いており、廃棄物を建築材料として活用、実験する研究所として Parongpong を創業した。

Rendy さんが Parongpong を立ち上げた大きなきっかけは「アースオーバーシュートデー（Earth Overshoot Day）」の変化に衝撃を受けたことだった。アースオーバーシュートデーは国際環境シンクタンクである「グローバル・フットプリント・ネットワーク（GFN）」が毎年計算し、発表しているもので、地球が 1 年間に再生できる自然資源を人類がその年に使い果たす日を指す。Rendy さんが生まれた 1983 年にはこの日は 12 月だったが、息子が生まれた 2019 年には 7 月にまで早まっていた。この日付が早いほど人類の資源消費が地球の再生能力を超えていることを示しており、次年度分の資源を使っていることになる。



Parongpong 創業者の Rendy さん

Rendy さんはこの加速化する資源の消費を食い止める方法として廃棄物の資源化に着目し、「環境をこれ以上破壊しない、未活用の廃棄物を資源化する」という理念のもと建築材料の開発に乗り出した。Parongpong が目指すサステナブルな材料は、実用的で大量生産が可能なこと、そして収益性も確保できることが大切なキーポイントである。

■技術革新により次々と生まれる再生素材

Parongpong の建築材料は、そのクオリティが高く評価されている。インドネシアのインダストリアルデザイン会社「Concrete Lab」は、Parongpong の素材を用いてバリ島のリゾート「Desa Potato Head」に長さ 31 メートルのサンセットパークベンチをつくった。このベンチで使われているのはリゾート周辺で集めたプラスチック廃材を混ぜてつくったコンクリートで、重さは通常のコンクリートの半分しかない。建物と一体化し、スタイリッシュな雰囲気をかもしだしているこのベンチは 2023 年度のグッドデザイン賞を受賞した。



Desa Potato Head のサンセットパークベンチ

さらに、植物の種を混ぜた紙製品を開発する「PaperPods」とも提携し、使用後に植えると植物が芽生える製品を展開している。

Parongpong は、技術革新に積極的だ。2019 年には「Prototech™」という加水分解技術を活用した機械を開発し（現在特許申請中）、使い捨てマスクやタバコの吸い殻、廃棄された魚網、コーヒー豆のカスなどの残余廃棄物を産業用マテリアルとして再生させることに成功。Parongpong が製造する独自のマテリアル「RAWchar=」もその一つで、RAWchar=は紙製品、コンクリート製品、プラスチック製品に活用されている。「Desa Potato Head」のサンセットパークベンチのコンクリートに使われているのも RAWchar=だ。

RAWchar=は、オニキスの代替材料として軽量かつ耐久性があるウォールパネルやタイルの生産にも利用されている。Parongpong が開発したウォールパネルの「Prototiles」、100%リサイクルプラスチックから作られるプラスチック板「Oriplas」には、いずれも RAWchar=が使われている。

■循環経済への寄与で持続可能な社会の実現に貢献

Parongpong は、新製品開発と実績を積み上げてきている。生産ラインの拡充も進めており、Oriplas 工場の拡大や Prototiles の生産を増加し、年間 240 トン以上の廃棄プラスチックを加工する計画だ。さらにはインドネシア国外へ輸出する計画も進んでいる。



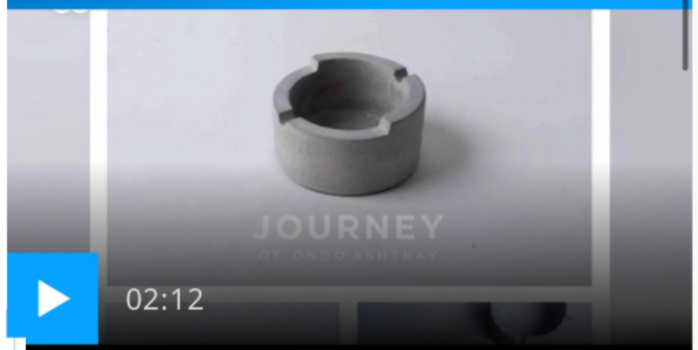
Protiles を使ったウォールパネル

それだけでなく、地元コミュニティと連携して「廃棄物は資源である」という意識を広める活動も行っている。今後はさまざまなメーカーと提携し、EPR（拡大生産者責任）の普及にも取り組む予定だ。EPR は製品の廃棄やリサイクルの段階まで生産者が責任を持つ仕組みで、これにより生産者は環境に配慮した製品設計やリサイクル促進を求められ、廃棄物削減や持続可能な社会の実現に貢献することになる。

今、世界的に求められている循環経済に寄与する企業として、Parongpong は今後さらなる発展を遂げるだろう。

DW ● Live TV

IN FOCUS Afghanistan Niger Women's Worl →



SOCIETY | **ASIA**

Building houses with cigarette butts?

Prihardani Tuah Purba

11/18/2020

Every day, cigarette butts are thrown out all over streets and sidewalks. Parongpong, a waste processing company in Indonesia's West Java, is turning cigarette butts into materials that can be used to build "micro houses."

potato head

contact us



Sunset Park Bench – Circularity in Built Environment Industry

As a society, we're becoming more aware of the impact our actions have on the environment. The construction industry is one of the biggest contributors to global pollution, and we know that we need to find more sustainable ways of building if we want to protect our planet.

That's why we're so excited to announce Parongpong latest project – a collaboration with Conture for Desa Potato Head in Sunset Park. Our goal was to create something beautiful, functional, and sustainable, all at the same time.

Builds an Environmentally Friendly House?

Almadinah Putri Brilian - secondsProperty

Saturday, 24 Feb 2024 19:00 WIB



Pavilion of modular and prototile photos: doc. WEGE

Jakarta - Environmentally friendly home I'm in demand. Well, for those of you who want to build an environmentally friendly house, you can use this material.

PT Wijaya Building Works Tbk Building (WEGE) collaborates with Parongpong RAW Lab creating a pavilion at the ARCH:ID architecture exhibition. The pavilion uses a modular from WIKA Building and prototile fill wall from Parongpong.

Modular construction methods use Prefinished Volumetric Construction (PPVC) where the frame is produced in the form of modules or units in the factory (prefabricated) outside the project. Then the module is transported to be assembled into a building. This method is one of the environmentally friendly construction methods because it produces less construction waste, emissions, and air and sound pollution in the field.

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OUR TECHNOLOGY

Prototech® is Hydrothermal tech creating **RAWchar**® that cleanly transforms waste into **Prototiles**®— a versatile, high-performance material.

No carcinogenic output

No chemical pre-treatment

50% less weight

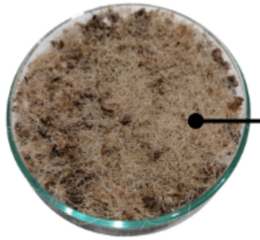
Reduced carbon output



Collection : Residual Waste (Ghost net)



Prototech® **:** Ghost net



Material output :
RAWchar®



Product output :
Prototiles®

Non-toxic
UV resistant
Fire retardant

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INTEGRATED CIRCULAR SYSTEM

PT. RAESAKA AMANAH WIDYAKARYA

Municipalities
Solid Waste

®

RAWHAUS

used as building materials for sustainable micro house

Collecting → **Sorting** → **Tracing** → **Processing**

Marine debris

OceanKita
Marine Debris to Circularity

Organic → LARPONG → **Composting & Bio Fertilizer**

Recycled → ELEVATING WASTE TO MATERIAL → **Digital Recycling traceability system**

Residual → **RDF based Material**

PARONGPONG®
RECYCLE AND WASTE LAB
THERE'S NO SUCH THING AS WASTE, ONLY MATERIAL OUT OF PLACE.

PROTOTECH® HYDROTHERMAL-BASED TECHNOLOGY

RAWPULP
FOR PAPER-BASED PRODUCTS



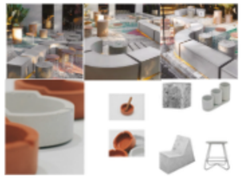
PaperPods
RECYCLING PAPER WASTE INTO PLANTABLE PAPER

RAWFIBRE
FOR TEXTILE-BASED PRODUCTS



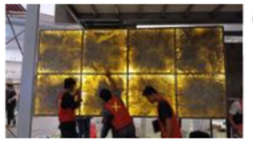
TRI·CYCLE
TEXTILE WASTE TO CLOSE LOOP MATERIAL

RAWCHAR
FOR CONCRETE-BASED PRODUCTS



conture
concrete lab.
LOW VALUE WASTE TO HIGH DESIGN CONCRETE-BASED PRODUCT

RAWPLAS
FOR PLASTIC -BASED PRODUCTS



PURA
PLASTIC WASTE TO VERSATILE MATERIAL

ORIPLAS®
SUSTAINABLE WOOD REPLACEMENT

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OUTPUT: JA~LA! PROTOTILES

Mining white granite causes habitat destruction, biodiversity loss, air and water pollution, with significant increases in particulate matter and chemical runoff.





27,5 KG / m2

Virgin mining material

Special tools required for cutting, **impossible** to bend

Imported, high carbon foot print, low TKDN (local content)

IDR 4.800,000 (**USD 300**) / m2

VS

5 KG / m2

Residual waste based material

Versatile design and easily cut, modified, bend on/off site

Local resources and production, reduced carbon foot print, high TKDN (local content)

IDR 750,000 (**USD 50**) /m2

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ULIN HARD WOOD

VS.

ORIPLANK BY ORIPLAS

Conventional decking wood is derived from Ulin (Timber), which often lead to deforestation and loss of biodiversity, as well as other environmental damages.



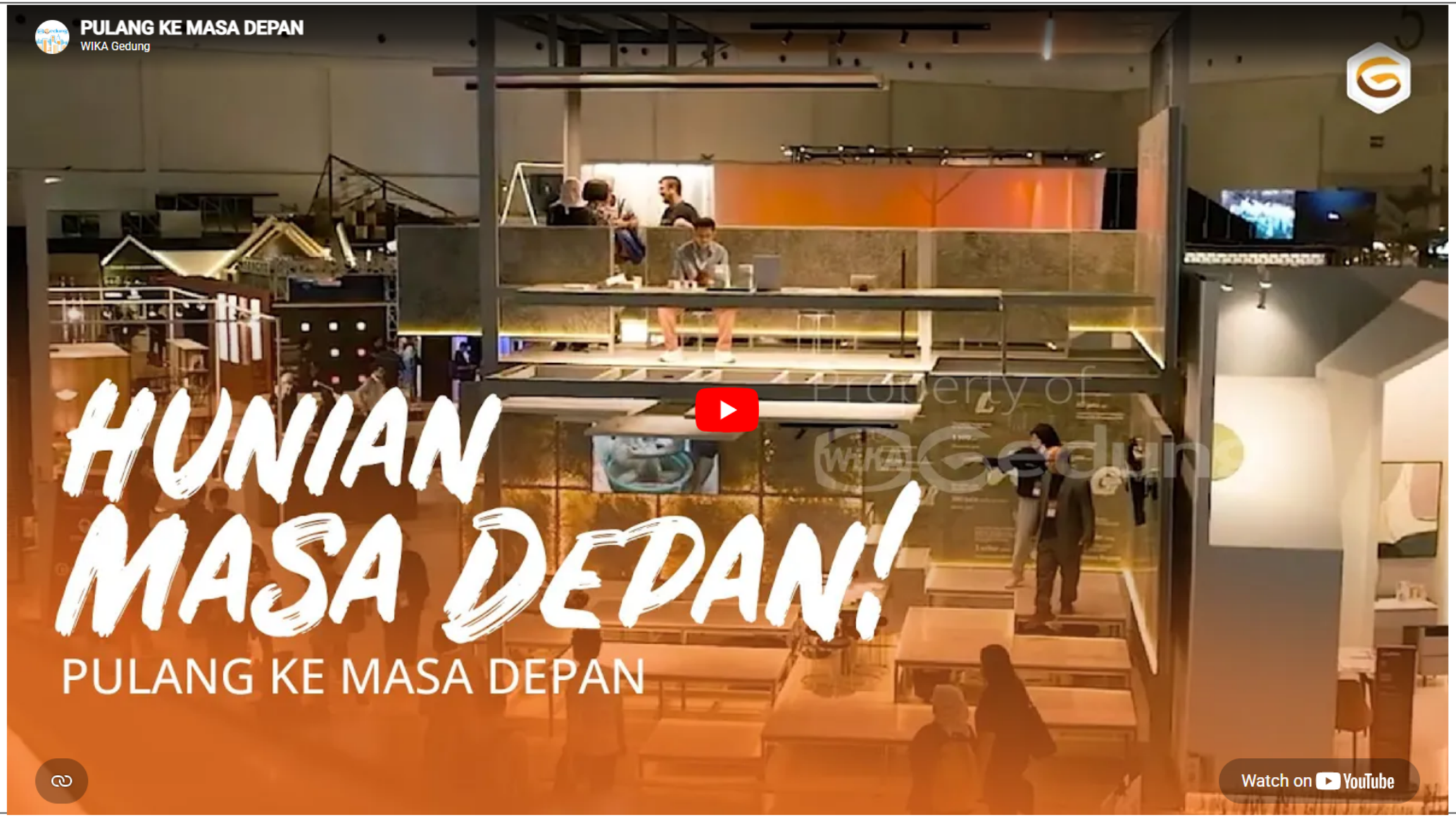


Extreme scarcity Natural **tropical hardwood**
Withstands **6.5 tons/m2**
Requires maintenance (polishing, sealing)
Deforestation risk, high carbon footprint
Rp. 35-50 M / M3 , uncertain availability and pricing

VS

100% recycled composite plastic from LVP
Withstands **15 tons/m2**
Low maintenance, no risk of rot, no termite damage
Reduce plastic waste, **reduced carbon foot print**
Rp. 20 M /M3 , ready on stock & highly scaleable

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INTEGRATED ESG SERVICES



Waste-to-material Research

We work with businesses, NGOs, government sector or academic, to conduct research on their waste and find ways to turn the waste into materials that can be made into high-value products.



Sustainable waste management consultancy

We enable businesses and organizations to map their waste and create and execute a sustainable waste management plan.



Education on waste management and environmental awareness:

We launch campaigns, organize offline education workshops and participate in exhibitions to engage the public on waste management and environmental awareness.



Design and Manufacturing Waste to Material Products

We turn recovered materials into purposeful products, from furniture to interior elements, combining circular design with local craftsmanship.



Traceability system and Waste Credit

We offer digital tools to track waste transformation and help organizations generate waste credits to support ESG goals and circular reporting.

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FROM INDONESIA TO JAPAN

PT. RAESAKA AMANAH WIDYAKARYA

2016

Coming back to Indonesia after 8 years working abroad!

2016

It takes a village to raise a child....

Study at zero waste village Japan, after decided to start a family

2017

Founding of Parongpong RAW Management

2018

Co-founding PT. Raw Haus Indonesia first circular microhouse

2019

Prototech adoption

2019

COVID 19 re-branding to Parongpong RAW Lab (**PT. RAW**)

2020

Cigarette butt processing with Conture. Concrete Lab

2020

First prototype of Waste to Material Microhouse

2021

Co-founding PT. Conture Concrete Lab

2021

1st Good design award

2022

1st business trip to Japan

2023

Good Design Award Japan

2023

Invest on several start up, expansion to Jakarta,Surabaya & Makassar

2024

Ja~la! Prototlies won ABIC 2024

2024

Best Design Award 2024 for Ja~la! Prototiles

2025

Pavilion at the Indonesia Design District with major companies

2025

Won prestigious ESG awards

2025

Won 12 business competition, 5 from Japan

2025

Expansion to Bali PT. Paper Pods Indonesa and Tri.cycle

2025

Showcase at Osaka Expo, 1st feature in Japanese Media, and ready to finalizing 1st investment partner from Japan

2026

RAW.CO JAPAN

MAY 2026

WWW.PARONGPONG.COM 2026

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INDONESIA AND JAPAN LOCATIONS

Head Office : Bandung, West - Java
RAW Lab Bandung : Parongpong , West - Java
RAW Lab Bali : Denpasar, Bali
RAW Fab Malang : Malang , East - Java
RaW Fab Semarang: Kudus, Central - Java

Affiliates based :
Sisa (Tokyo), **OceanKita** (Surabaya), **MallSampah** (Makassar), **Rawhaus** (Jakarta), **Conture** (Bandung), **Tricycle** (Bali), **Paperpods** (Bali), **Pura** (Bali)





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OUR IMPACT

CREATING POSITIVE CHANGE FOR OCEANS, COMMUNITIES, AND LIVELIHOODS





300+ tons
waste diverted

18 tons
ghost nets recycled

55 tons+
Co2 avoided annually

85 locals
coastal members engaged

10 locals coop
fishermen group actively involved

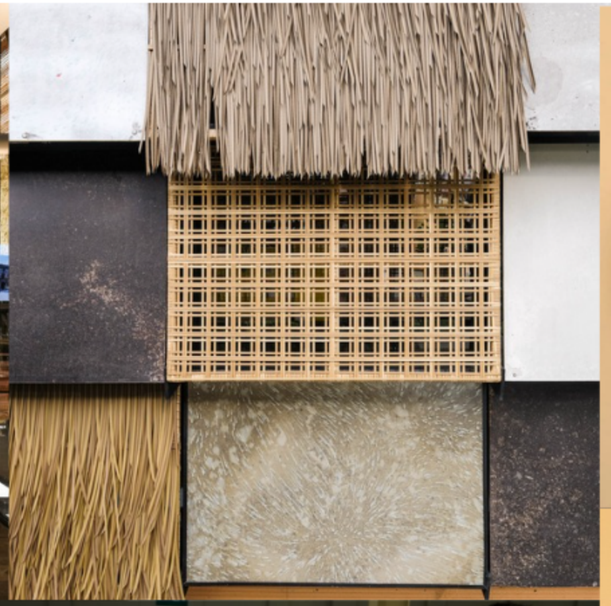
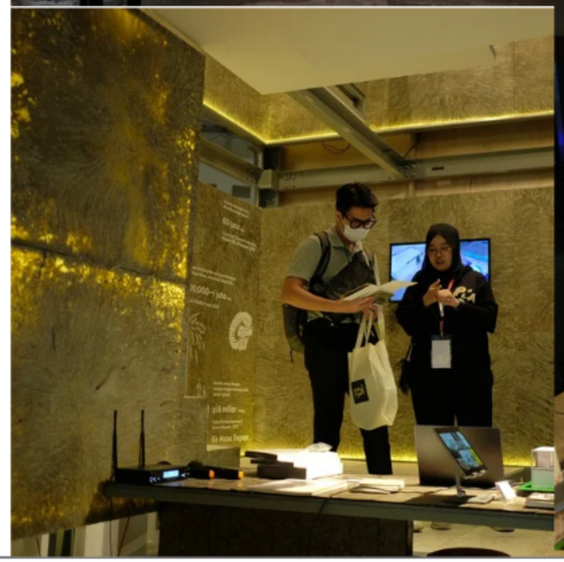
2,400+
households empowered

300+
projects

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WASTE TO MATERIAL

PT. RAESAKA AMANAH WIDYAKARYA







MAY 2026

WWW.PARONGPONG.COM 2026

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OSAKA EXPO 2025









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HOUSEWARE

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INDONESIA - JAPAN PROJECTS

PT. RAESAKA AMANAH WIDYAKARYA









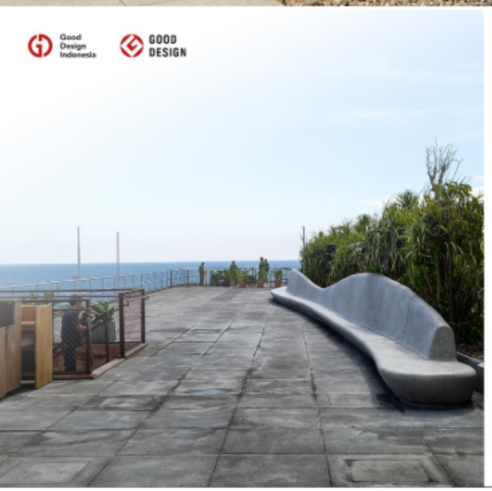




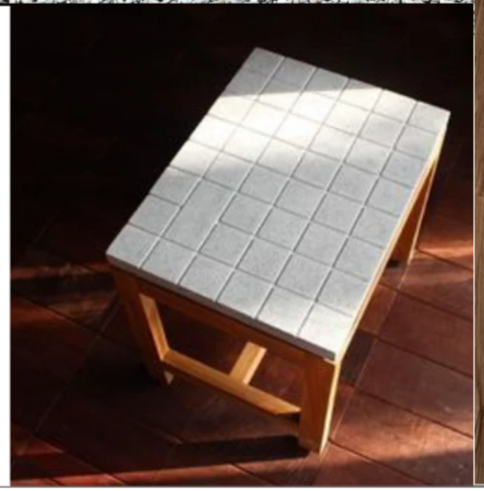












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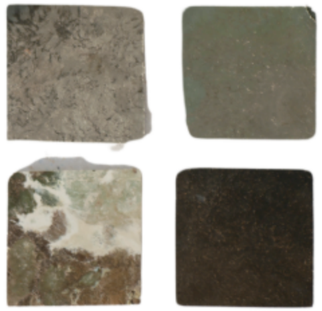
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PARTNERSHIP MODEL : SISA ASSOCIATES

PT. RAESAKA AMANAH WIDYAKARYA

材料そのものの色やテクスチャが意匠に直結するマテリアルを探求する。 使い手にも環境にも優しいリサイクル新素材をインテリアや家具に。





軽量化リサイクルコンクリートマテリアル



廃棄物 100% の再生プラスチックボード





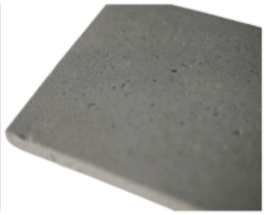
軽量化リサイクルコンクリマテリアル



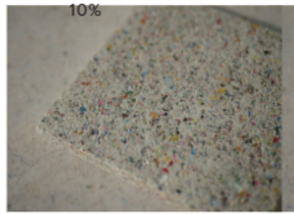
タバコの吸殻 10%



タバコの吸殻 + 空隙左官処理



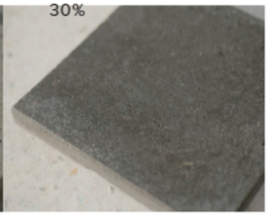
使い捨てマスク 30%



Low Value Plastic (MLP) 30%

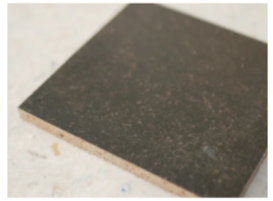


古紙 30%

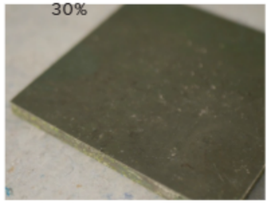


ラテックス(ゴム)30%

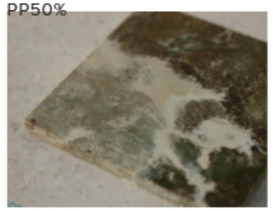
廃棄物100%の再生プラスチックボード



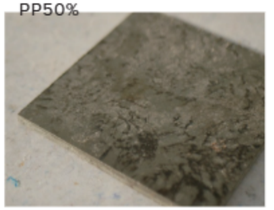
コーヒーかす50% + 廃棄PP50%



海洋ゴミ50% + 廃棄PP50%



廃棄漁網50% + 廃棄PP50%

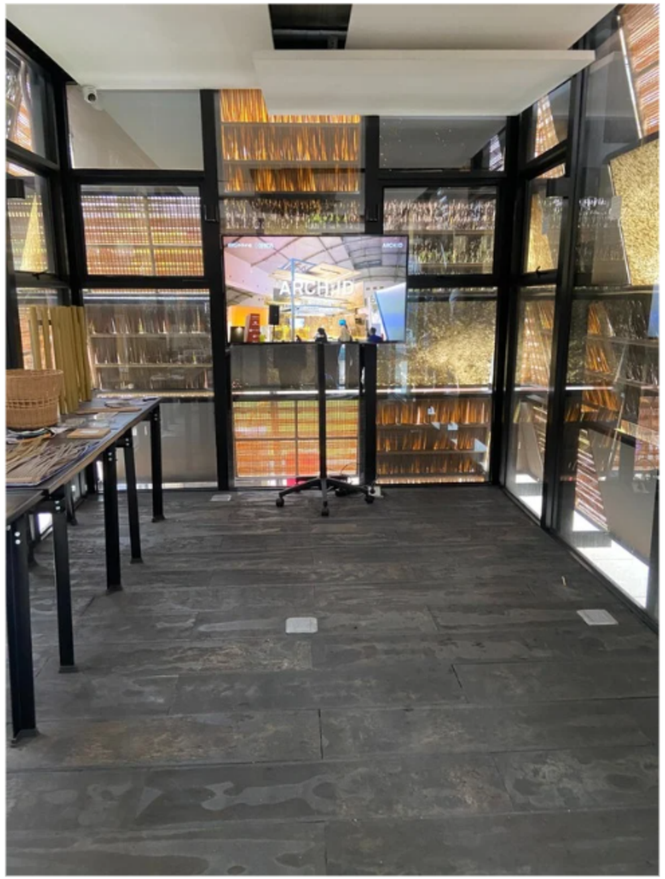


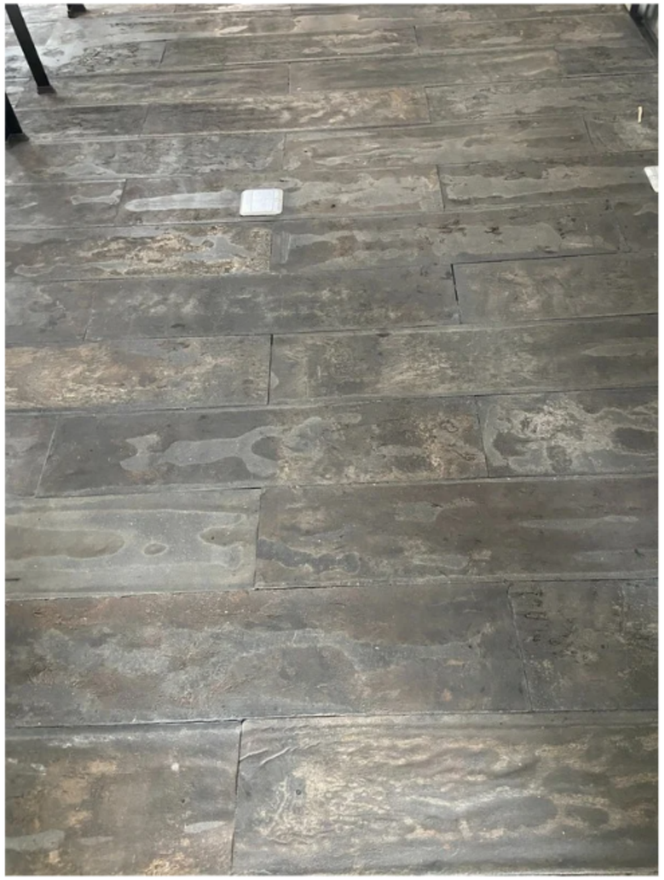
使い捨てマスク50% + 廃棄PP50%



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ORIPLAS® INSTALLATION





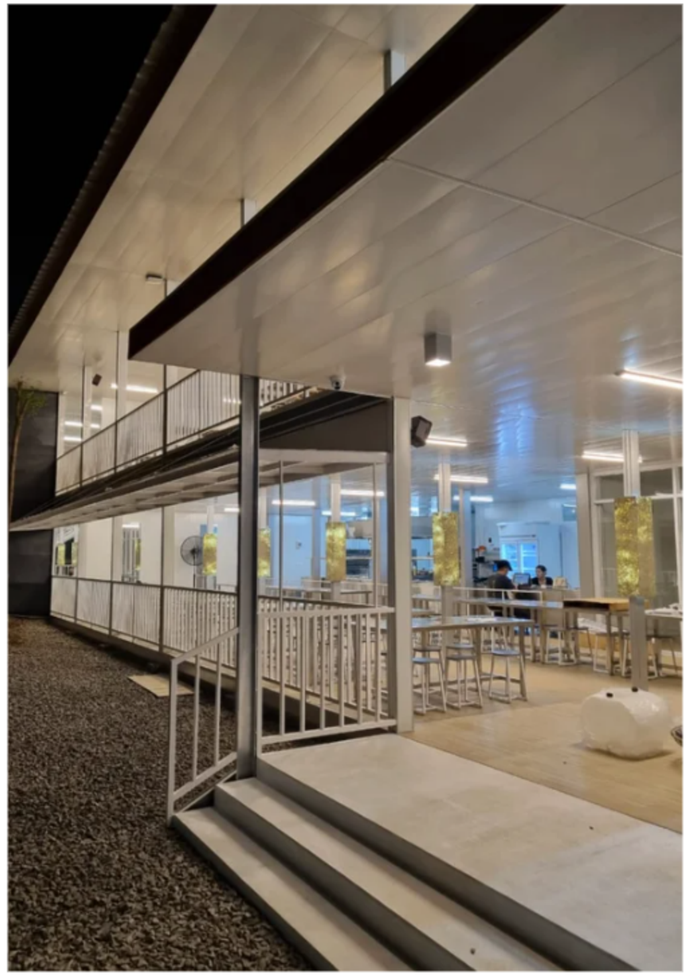


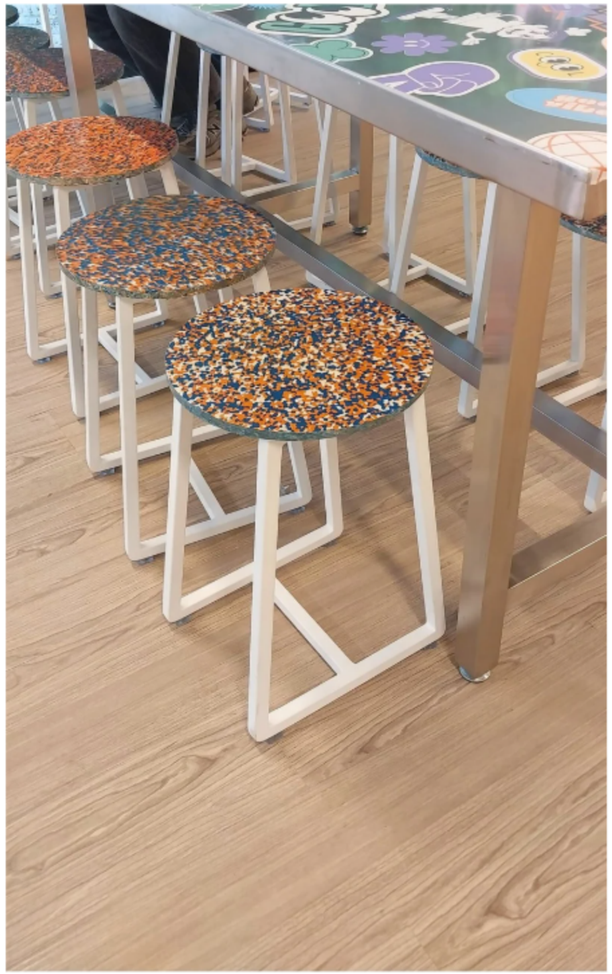


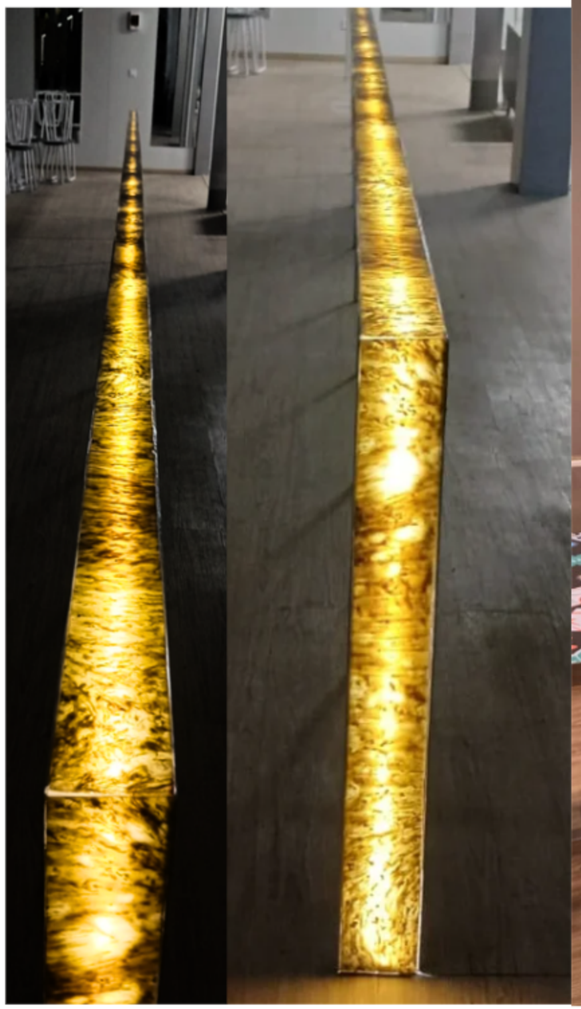


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RAMMAH FOOD COLLECTIVE UNPAR









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PARSAVIKA



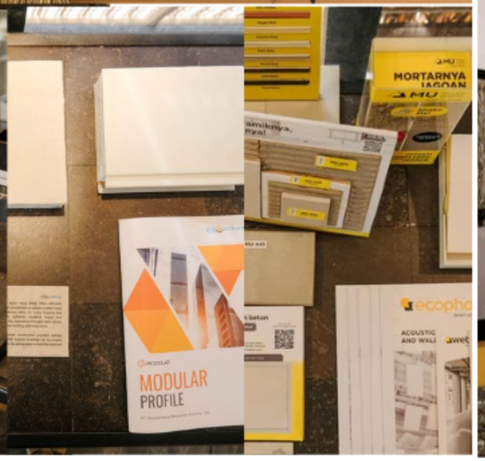














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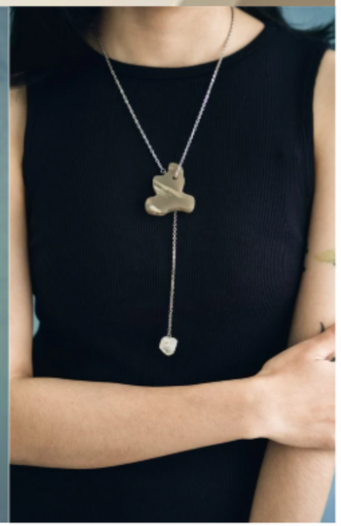
JALAWELRY

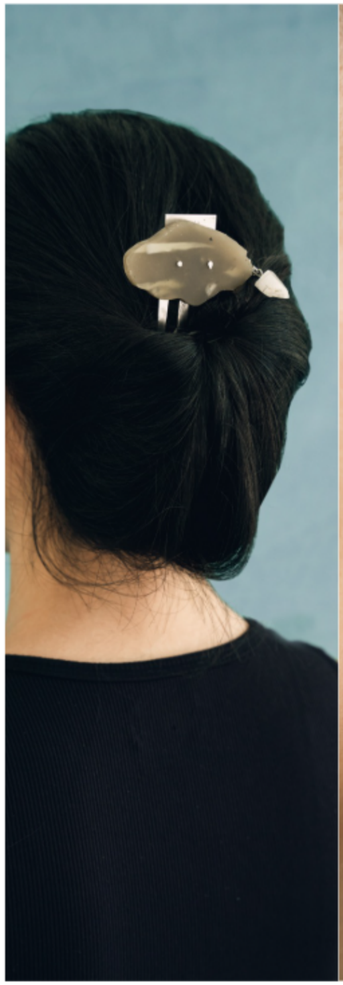














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The ORIPLAS® Bench

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SELECTED PROJECTS

PT. RAESAKA AMANAH WIDYAKARYA

























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INDONESIA - JAPAN SUPPORT SYSTEM

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OUR COMMON DREAM!



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If you have any questions or need clarification regarding this proposal, please don't hesitate to reach out. We are here to support and guide you.

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