

I moved from Himalayas  
to introduce

# Rice Resin®

Presenter and your guide from the land of Sherpa  
**Maki Ashish Deguchi**  
Sustainable Naturist



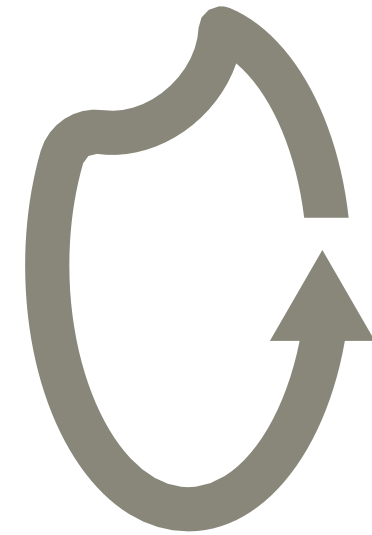
**Biomass Resin**

M i K a n i K o h o n g m a





who makes the Rice Plastics ?



Rice Resin<sup>®</sup>



**Biomass Resin**

HOLDINGS

# 03. Company Profile



**Biomass Resin**  
HOLDINGS

- Foundation date : 2020.3.10
- Capital stock : 135.16 million yen (As of June 2021 / Including capital reserve)
- CEO : Kazuhito Kamiya
- Number of employees : 60 (As of April 2021 / Including HD affiliated companies)
- Adress : EGG JAPAN, Shinmarunouchi building1-5-1 Marunouchi Chiyoda-ku, Tokyo Japan
- Business content : Manufacture, Sales and Research and Development of Biomass Plastics and Raw Materials



## 04. What is Rice Resin



“Rice Resin” is Japanese biomass plastic derived from rice (Non-edible rice)

Our new technology uses those Old Rice, Crushed Rice, Omitted Rice, and Rice that is not treated as Feed, and Discarded Rice to upcycled to produce “Rice Resin”



Non-edible Rice

Plasticization with original technology

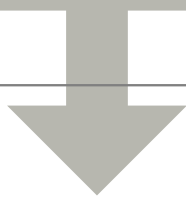


Rice Resin

It is possible to mix rice upto 70%, which can significantly reduce the content of petroleum-based plastics

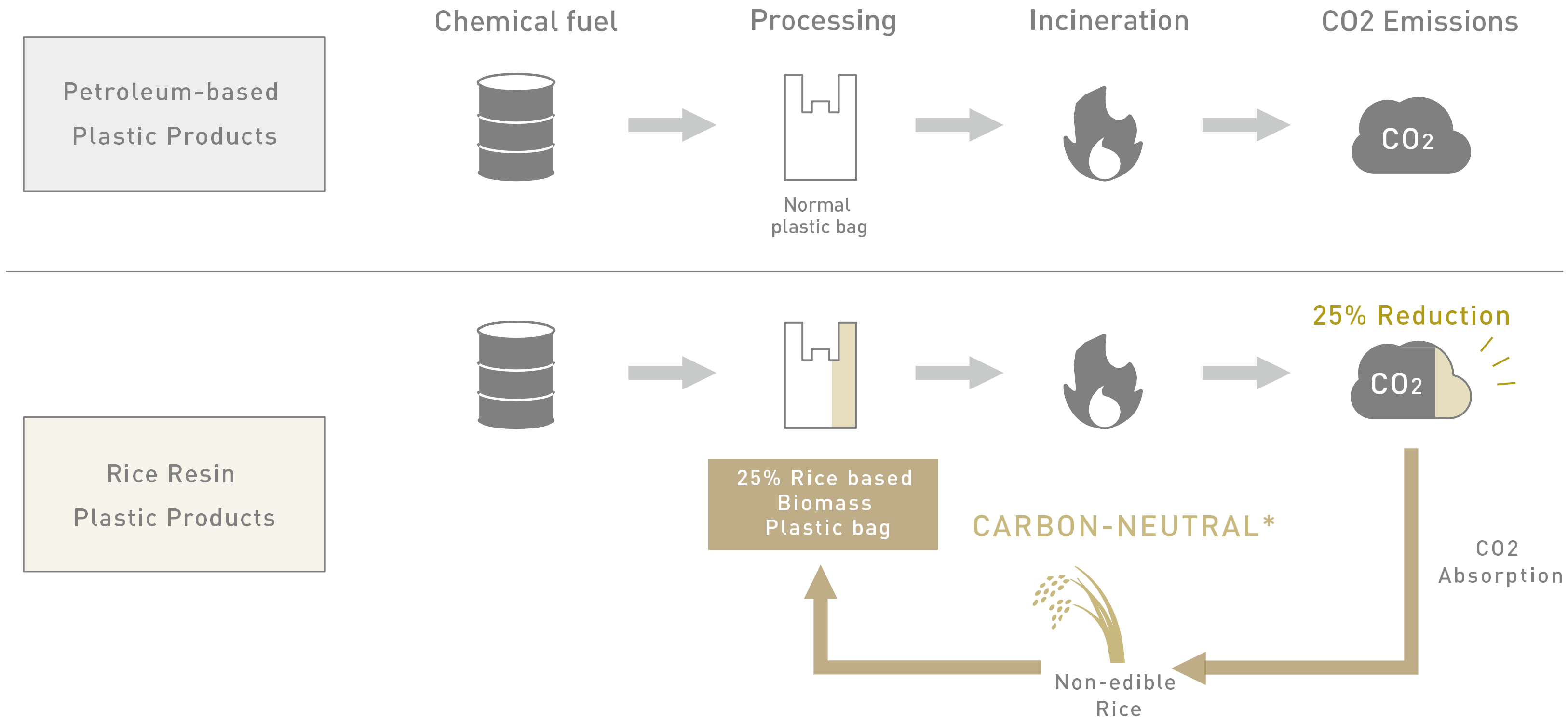
# 05. Types of Biomass Plastic

Type	Definition	Consumer goods and categories suitable for use
Biodegradable	Plastic that is finally decomposed to CO <sub>2</sub> and water by the action of microorganisms existing in nature	<ul style="list-style-type: none"> <li>● <b>Products that have leaked into the natural environment</b>  <b>Non-durable goods that cannot be collected after use.</b>                      (Ex: fishing line, fishing net, etc.)</li> <li>● <b>Those that have been recovered but have the merit of biodegradability</b>                      (Ex: Various types of agricultural films)</li> </ul> <p>※The development and commercialization of ocean analysis is progressing in Japan and around the world. Future issues are the formulation of evaluation criteria, the securing of raw materials, and the enhancement of production facilities.</p>
Non-Biodegradable	Plastics obtained by scientifically or biologically synthesizing renewable biomass resources as raw materials	<ul style="list-style-type: none"> <li>● <b>Recycled products</b>                      Durable goods that are not desirable to be disassembled into plastic, such as PCs and home appliances that are currently being recovered.</li> <li>● <b>One-way products (reduction is strongly required)</b>  <b>Non-durable goods that can be recovered but emit CO<sub>2</sub> because they are incinerated.</b>                      (Ex: Garbage bags, plastic shopping bags, straws, food containers, etc)</li> </ul>



Rice Resin contributes to the Japanese Government's Petroleum-based plastic Reduction Target and CO<sub>2</sub> Emission Reduction during incineration

# 06. Reduction of Carbon Dioxide (non-Energy Origin)



**\* Carbon neutral**

Looking at the entire life cycle, carbon dioxide (CO2) emissions and A state in which the amount of absorption becomes plus or minus zero



# 07. Utilization of Fallow-Land and Abandoned-Cultivated-Lands



Spring of  
2020

Started making Resource Rice in Abandoned-Cultivated-Lands by utilizing the "rice system for New Market Development".

As the first project, cultivated a high-harvest variety "Niigata Jiro" in Minami Uonuma City and used the harvested rice as a raw material for "rice toys"

2021

Large-scale field maintenance started in Namie Town, Fukushima Prefecture (about 3ha)

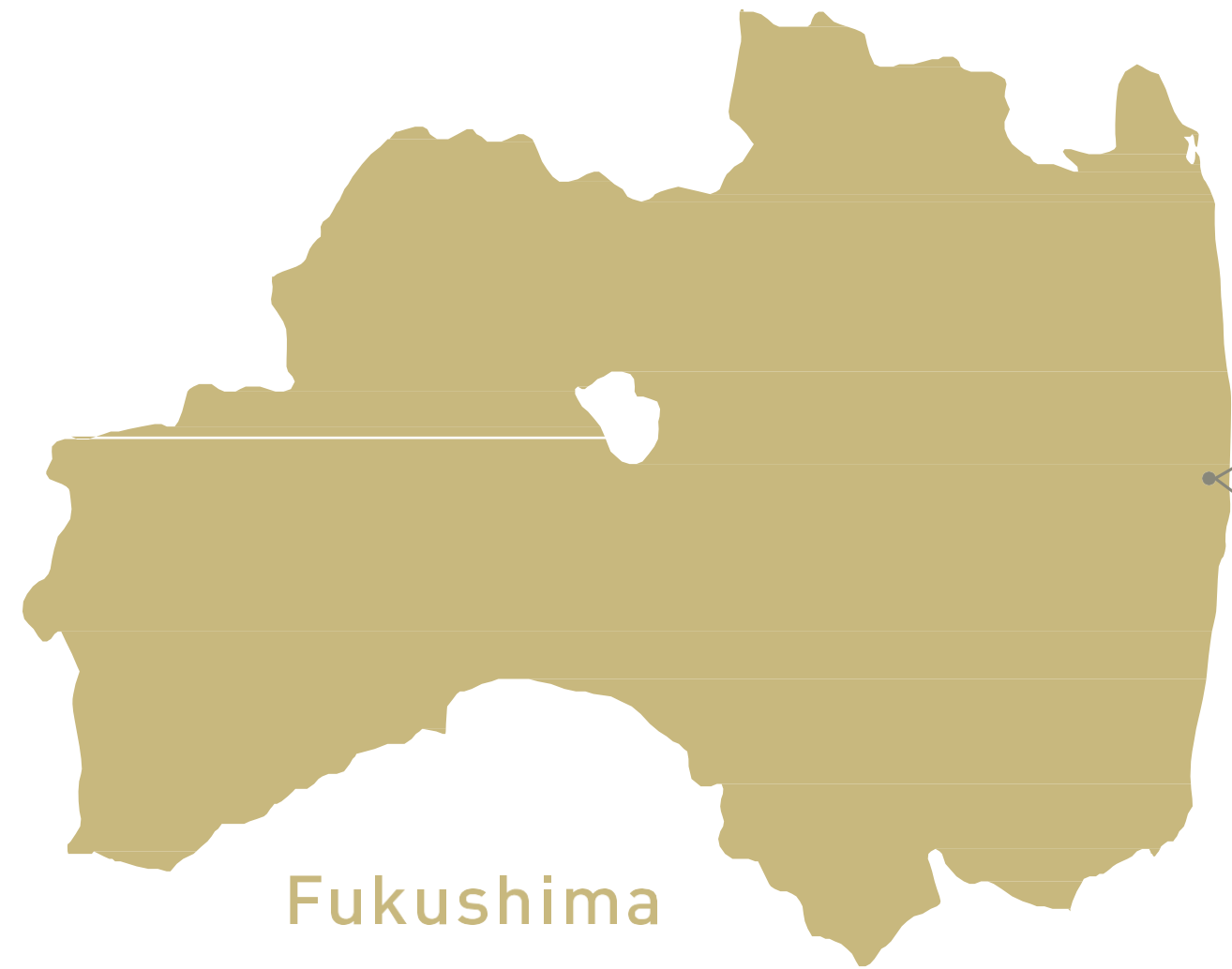


"Large factory model for ASEAN" that cooperates as Biomass Resin Fukushima Factory (rice resin production) and consistently performs from rice cultivation to Rice Resin raw material production

In the future, we aim for "unmanned agriculture x resource rice production" using AI as a rice cultivation model that emphasizes productivity and measures against abandoned cultivated lands.

# 08. The case in Fukushima: Utilization of Fallow-Land and Abandoned-Cultivated-Lands

Namie Town, Fukushima



Fukushima



about 3ha of rice for rice resin  
in Namie Town, Fukushima





# 11. Rice Resin products in the Market 1/4



**People**

Rice Resin  
Block toys

Famous for Safe and  
Secure toys in the  
major retailers in  
all over Japan



**JP POST 日本郵便**

Rice Resin  
Shopping Bags

Expanding at  
convenience stores,  
supermarkets, and  
specialty stores  
nationwide



  
**南魚沼市**

Rice Resin  
Municipal  
Garbage Bags

Already testing in Niigata  
city. Also city of  
Kumamoto, Kyoto,  
Yokohama and others  
are under discussion of  
using Rice Resin bags



**G20**  
新潟  
農業大臣会合  
G20 NIIGATA Agriculture  
Ministers' Meeting

Rice Resin  
Chopsticks

Popular chopsticks  
that can be used  
for meals without  
spoilng the original  
flavor of rice



**NEXCO**  
東日本

Rice Resin  
Clear Files &  
Stationery

Rice Resin Files were  
used for tourism  
promotion in Niigata

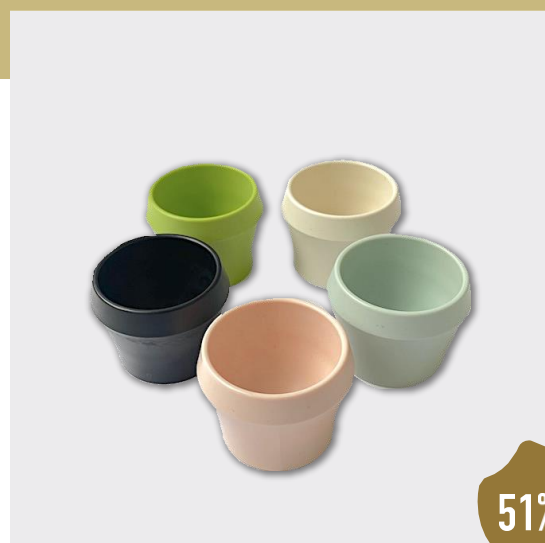
# 11. Rice Resin products in the Market 2/4

Ohashi



20%

Ochoko



51%

Cooking set



21%

Spoon



34%

Uchiwa



10% or 20%

Amenities



35%

20%

Toy



51%

SDGs badge



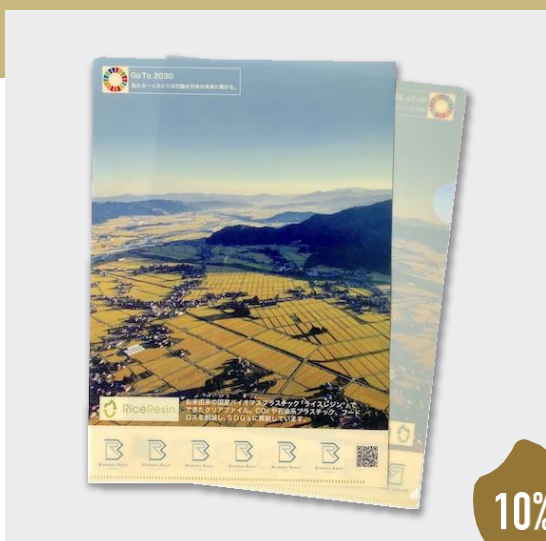
51%

Letter cutter



51%

Clear file



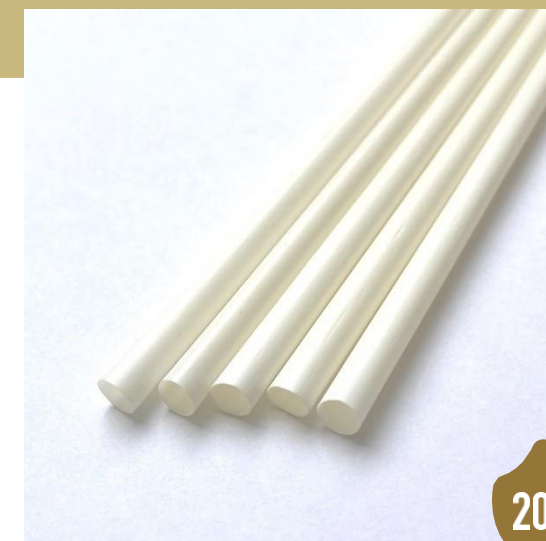
10%

Ballpoint pen



10%

Straw



20%

# 11. Rice Resin products in the Market 3/4

Garbage bag



Shopping bag



Shopping bag



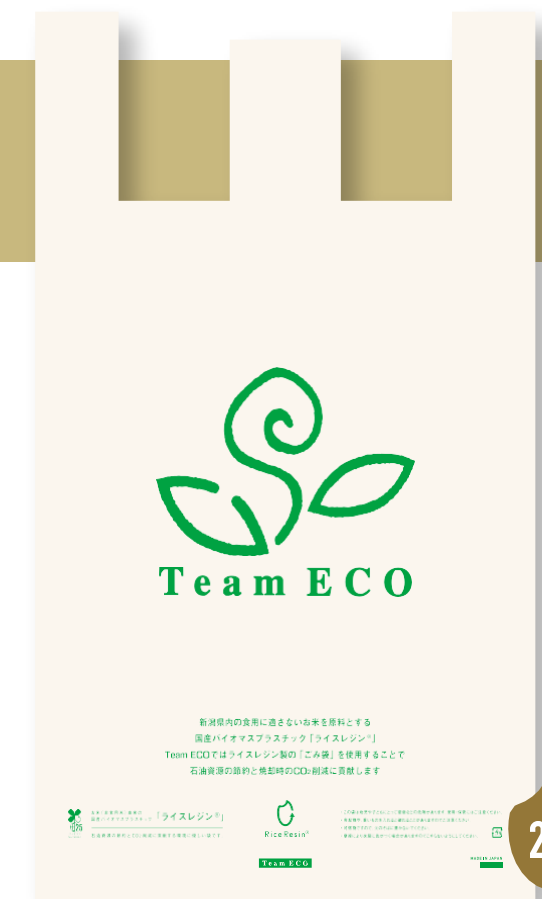
Lunch box



Shopping bag



Garbage bag



# 11. Rice Resin products in the Market 4/4

## FUJI ROCK FESTIVAL'21

**森がつなぐ地域の未来**  
NEW NORMAL NEW LOCAL

森の中には不思議な安心感が溢れる。そこは、私たちが生きるために必要な新鮮な空気と、たくさんの生命があふれているからだろう。森の時間はゆったりと、そして確実に生命の多様性を育んでいる。それが自然の法則なのだ。私たち人間は、これから、どうやって森と付き合ひ、自分たちが暮らす地域を本当に安心感のある場所にすることができるだろうか。

森は誰に対しても平等で、さまざまな生き物との複雑な関係性によって、私たちが生かされている。今回の新型コロナウイルス感染症のパンデミックも、人と自然の共生関係が崩れてしまったことが要因とも言われている。生物多様性を守ることが、人の健康と文化を守ることにつながる。そして、森が地域を守り、人を育て、森を守るのではない、森がわたしたちの未来を守る。それは森が教えてくれている。

**SMASH go round**  
**FUJI ROCK FESTIVAL'21**

Logos: FUJI & ROCKERS FOREST, New Power Gear, NGOVILLAGE, iPledge, Columbia, ECF, KTU, TOWER RECORDS, ZOJIRUSHI, 中越パルプ工業株式会社

**自分のごみは自分で!**  
コロナ禍だし、誰かが口につけたものが散らしてはイヤだね! 他人やボランティアは、触ったり拾ったりできません。ごみ袋に入れて、ごみ箱に持って来て、自分の手で分別して捨ててください。

ポイ捨てしないでごみ箱に入れる  
腐るごみは分別する  
ペットボトルのキャップとラベルは別袋

**TOWER RECORDS** **BYSDNTRY** *Madbury*

**LOCK DOW'N & ROLL**

**KEEP CLEAN & DISTANCE**

**自分のごみは自分で!**  
コロナ禍だし、誰かが口につけたものが散らしてはイヤだね! 他人やボランティアは、触ったり拾ったりできません。ごみ袋に入れて、ごみ箱に持って来て、自分の手で分別して捨ててください。

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**iPledge** **TOWER RECORDS** **FUJI ROCK FESTIVAL'21**

**Reduce** 減らす・削減する  
マイボトルを持ち歩く  
プラスチック包装の少ないものを選ぶ  
詰め替えや量り売り商品も取り入れてみよう!

**Reuse** 再利用・繰り返し使う  
マイカップ・ストロー、箸など、持ち歩こう!  
アウトドア用のものは、フェスでも使えるし、お酒場で可愛い、小さく折りたためるものもあるよ!

**Refuse** 断る・拒絶する  
「このままで大丈夫です」「家で食べるので、お箸いりません。」  
お店で食べる時、家で食べる時も、不要なものは自分から断ってみよう。

**Repair** 直す・修理する  
「修理する」を選択肢に。  
靴、時計、カバン、アウトドアグッズ、ウェア、修理できるものは他にもたくさん。自分で無理でもメーカーに問合せみよう。

**ReCycle** リサイクル・再生する  
リサイクルは最後の手段です。  
リサイクルって実は、環境にそんなに良くないんだ。輸送や再生加工に熱やエネルギーがかなり環境負荷も増えます。

**FROM FESTIVAL TO YOUR LIFE STYLE**  
FUJIROCKERS MAKE THE WORLD

**自分のごみは自分で!**  
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ポイ捨てしないでごみ箱に入れる  
腐るごみは分別する  
ペットボトルのキャップとラベルは別袋

**SMASH go round**  
**FUJI ROCK FESTIVAL'21**  
全ての方々が安心・安全に過ごせる「コロナ禍で開催する特別なフジロック」にご協力をお願いします。

禁酒  
禁煙  
マスク 常時着用  
検温への協力  
手洗い・消毒  
十分な間隔の確保  
モッシュタイプ NG  
大声・歓声を控える

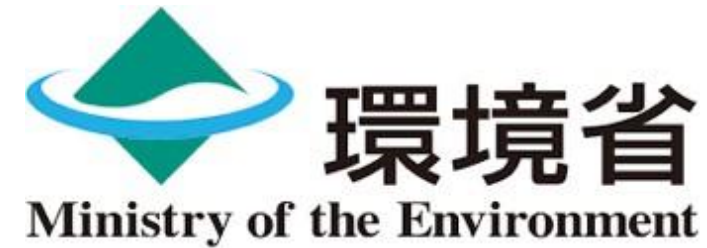
**自分のごみは自分で!**  
コロナ禍だし、誰かが口につけたものが散らしてはイヤだね! 他人やボランティアは、触ったり拾ったりできません。ごみ袋に入れて、ごみ箱に持って来て、自分の手で分別して捨ててください。

ポイ捨てしないでごみ箱に入れる  
腐るごみは分別する  
ペットボトルのキャップとラベルは別袋

It was adopted in the garbage bag distributed at the entrance gate



# 12. Third-party evaluation of “Rice Resin” (featured by the Government)



Adopted for "Demonstration project for building a resource recycling system for plastics that supports a Decarbonized society in the first and second years of Reiwa" by Japanese Ministry of Environment



Adopted "Independence / Return Support Employment Creation Company Location Subsidy" by Japanese Ministry of Economy, Trade and Industry



Introduced on Facebook by the Food Industry Bureau of the Ministry of Agriculture, Forestry and Fisheries of Japan, which focuses on efforts to expand the use of biomass.



Our Rice Resin has been certified by the Japan Organic Resources Association, and obtained Biomass Mark on our products

RiceResin

RiceFilm25

RiceFilm10

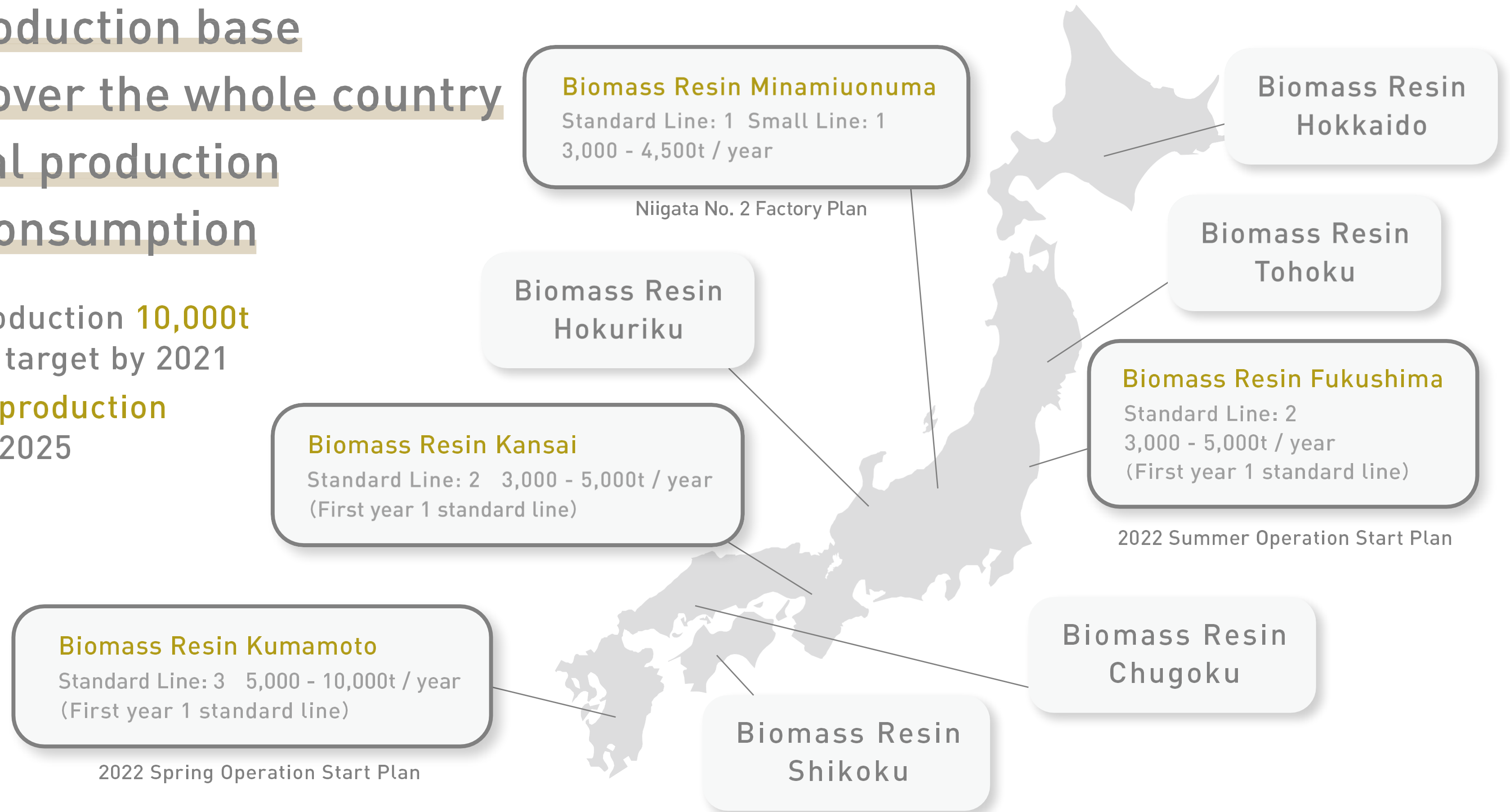
RiceFilm30

WoodResin

# 13. Future business Expansion in Japan

**Build a production base that can cover the whole country with a local production for local consumption**

- Domestic production **10,000t** achievement target by 2021
- **10 domestic production** Factories by 2025



## 14. Future business expansion overseas 1/2

**Build a production basis mainly in East Asia and Southeast Asia with joints with local companies**

- Overseas bases:  
By 2025 Building  
**10,000 tons in five countries**



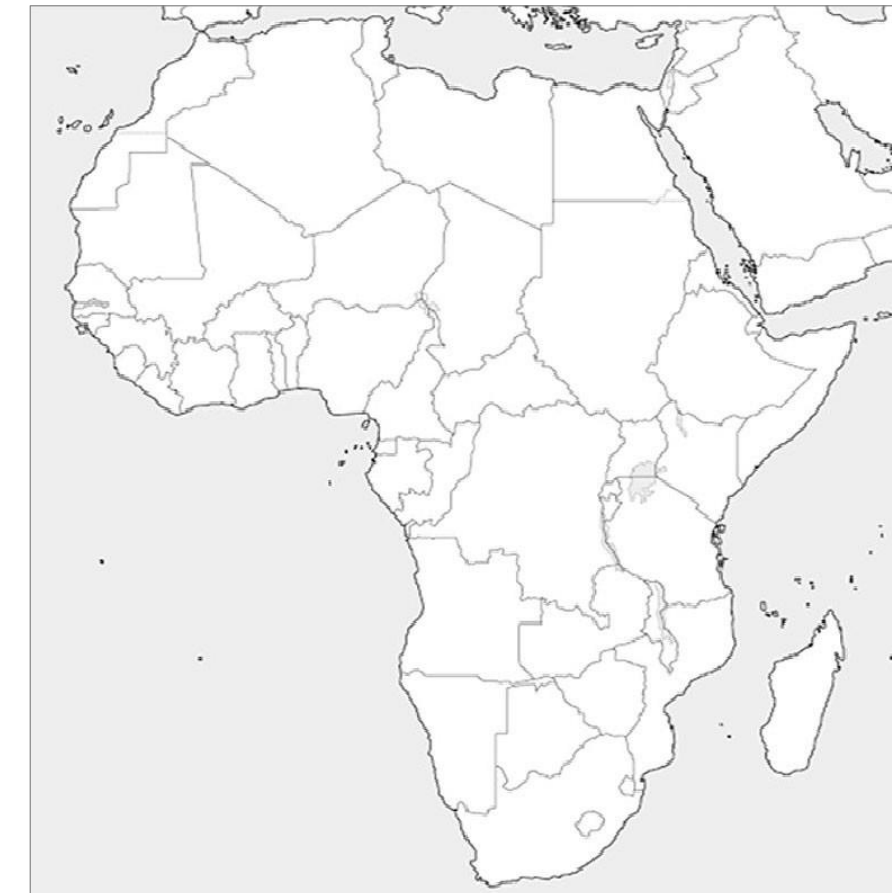
# 14. Future business expansion overseas 2/2

## Thailand

SDGs Business Model Formulation Survey  
with the Private Sector for Production and  
Diffusion of Biodegradable Plastic Resin  
Using Surplus Rice to Mitigate Marine Pollution

## Africa

We will cooperate in a collaborative and  
partnership project to promote and disseminate  
packaging materials and raw materials that  
contribute to improving environmental issues in Africa.



# 15. Other Biomass Resin

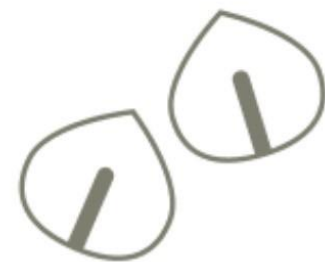
Coffee Resin



Wood Resin



Soba Resin



Bamboo Resin



etc...

# Plastic innovation for tomorrow

Representing Asia

Ecology × Agriculture Company

Aiming to be a company that is  
needed for 100 years in the world and loved for 100 years