# **LIMEX & Material Circulation**

Global Sales

Tom Nunomura

2023.02



**Business Overview** 

#### **Company Overview**

Company Name TBM Co., Ltd.

Established August 2011

Address 15F Toho Hibiya Building, 1-2-2,

Yurakucho, Chiyoda-ku, Tokyo, JAPAN

CEO Nobuyoshi Yamasaki

# of employees 286 (as of December 2022)

Capital Stock Approx. \$200 million

(Including legal capital surplus)

Business Develop, manufacture, and deliver ecological

materials, and material circulation business

#### Major Shareholders

- · Aderans Company Limited
- ITOCHU Corporation
- Goldman Sachs
- SK Japan Investment Inc.
- SBI Holdings, Inc.
- Sanyo Chemical Industries, Ltd.
- JR East Start Up Co., Ltd.
- SHIMA SEIKI MFG., LTD.
- Shinsei Corporate Investment Ltd.
- Spotlight 1
- SETTSU WAREHOUSE Co., Ltd.

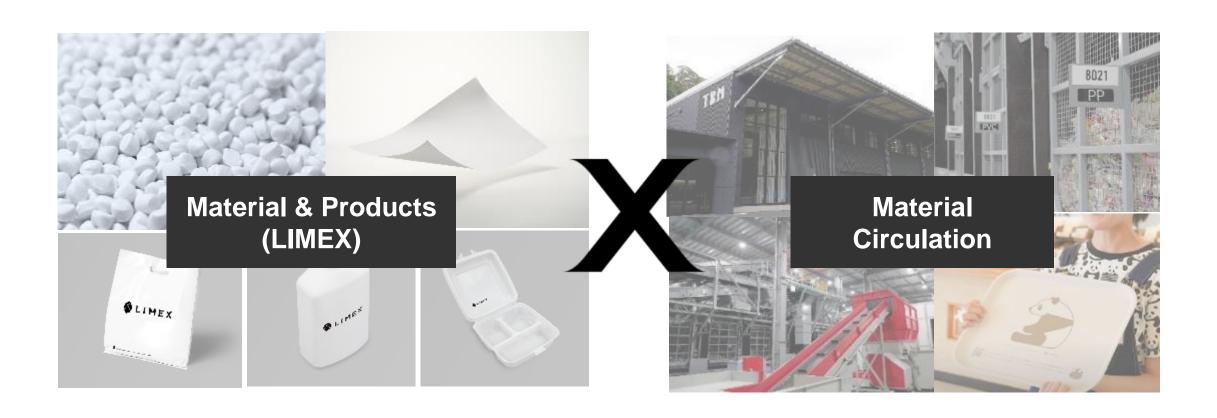
- Dai Nippon Printing Co., Ltd.
- DCM Holdings Co., Ltd.
- DIP Corporation
- Dentsu Group Inc.
- Toppan Inc.
- Nihon Kolmar Co., Ltd.
- FRANCE BED HOLDINGS CO.,LTD.
- MITSUBISHI PENCIL CO., LTD.
- Musashi Paint Holdings Co., Ltd.
- · YAKUODO Co. Ltd.
- Yodobashi Holdings Co.,Ltd.

#### **Awards**

- Plug and Play 2016 "New materials and package" (US)
- Stevie Awards Asia Pacific 2017 (ASIA REGION)
- COOL JAPAN AWARD 2017 (JAPAN)
- US Japan Innovation Award 2017 " Innovation Showcase company " (US)
- Red Dot Design Award 2018 (GERMANY)
- EY Entrepreneur Of The Year 2019 Japan (JAPAN)
- 100 Best Industrial Innovations for International Technology Transfer (CHINA)
- Golden Pin Design Award 金點設計獎 2021 (TAIWAN)

#### What we do

TBM is developing a sustainable circular business model with ecological new materials "LIMEX". We aim to reduce virgin material usage and accelerate material circulation.







# Plastic production to increase

3 1 - times by 2050 compared to 2018



#### What is LIMEX?

LIMEX is an inorganic filler composite material mainly made of limestone. It can be used as **plastic and paper alternatives.** 



#### LIMEX is patented in over 40 countries

# Why limestone?

Abundant natural resource worldwide

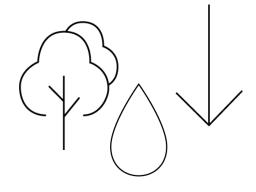


Advantages in CO<sub>2</sub> emissions

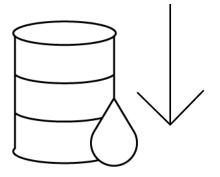
Economical and low volatility

Limestone

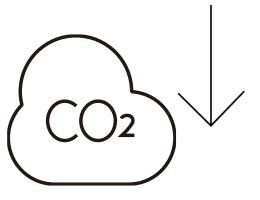
#### Benefit of LIMEX



Save forest and water



Reduce Plastic



Reduce Greenhouse Gas

#### LIMEX is delivered to over 10,000 companies



Shopping bag (Haneda Airport)



Plastic Toy model (BANDAI SPIRITS)



Hanger (Mainetti)



Secondary Packaging (ISDG)



Backlit Signage (MOS Burger)



Flexible Packaging (AST Corporation)



Hotel Amenity (JTB Trading)



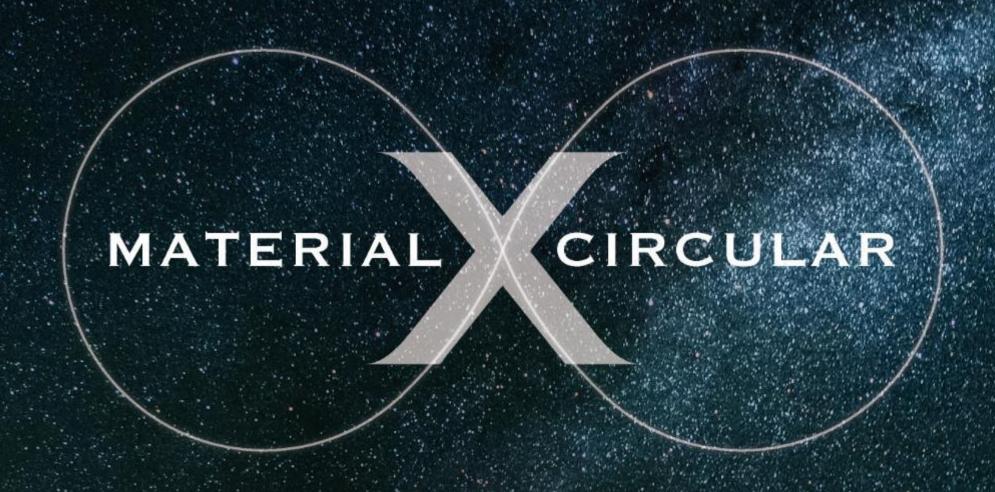
Cosmetic Packaging (Kemas)



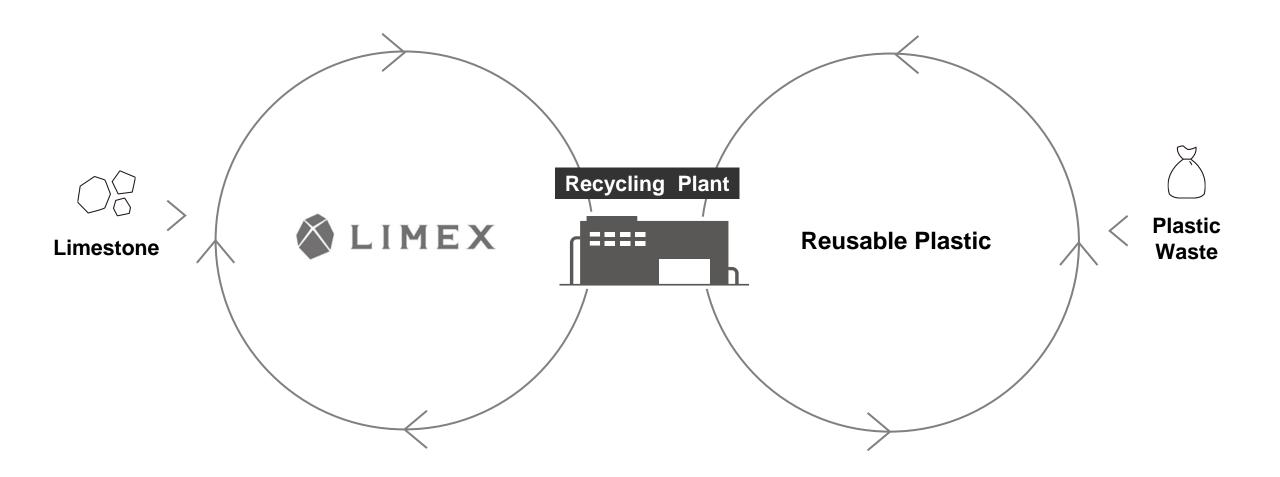
Drink Cup (Wakayama Adventure World)



Flower Label (Watahan)



#### TBM's Circular Business Model



#### Recycling Plant for LIMEX & Plastics

TBM launched a LIMEX & plastic recycling plant in Yokosuka City, Japan, to meet the growing demand of recycling.



**Annual processing capacity:** 

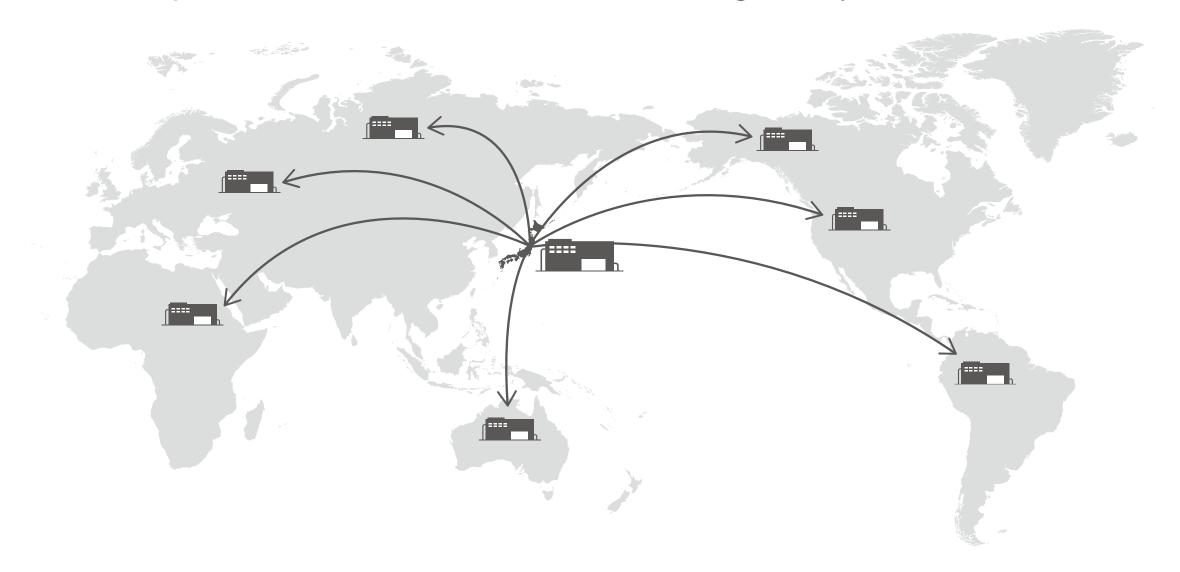
approx. **40,000** tons

**Production capacity:** 

approx. 24,000 tons of recycled pellets



# We will expand our circular business model globally



We want to connect with....

 Companies interested in using LIMEX for their products in African and European countries.

 Companies that we can collaborate to build a material circulation system in African and European countries

# TBM

Times Bridge Management

# We will realize the "Sustainability Revolution"

Our future we want doesn't just come.

No matter how we predict the future, the future we want will not come.

Only when we take on a challenge with strong will to create the future, we can reach the future we want.

We have experienced the agricultural revolution, industrial revolution, and digital information revolution. The AI revolution is coming next. So, what is coming after these?

We believe, the "Sustainability Revolution" is coming ... moreover, we have to make it happen. It is our mission to lead the next coming revolution.

Nobuyoshi Yamasaki, Representative director, CEO

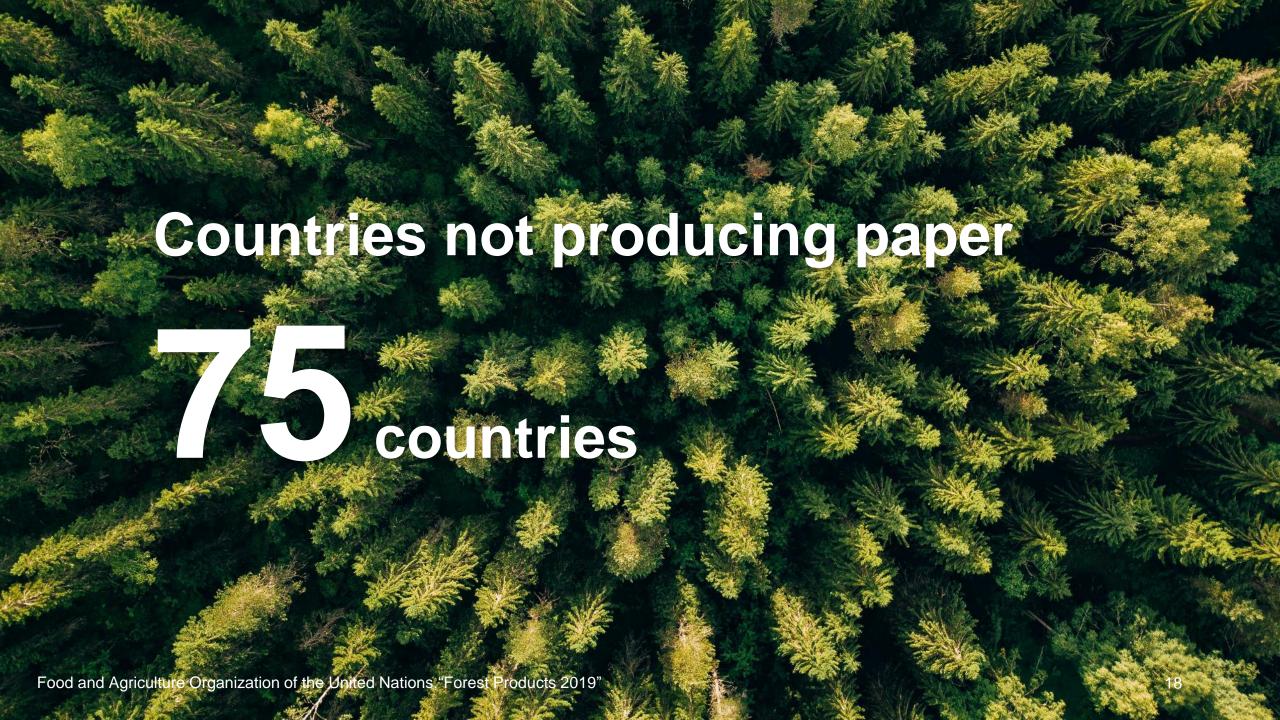
## Thank you for listening

# Visit our corporate site for more information!



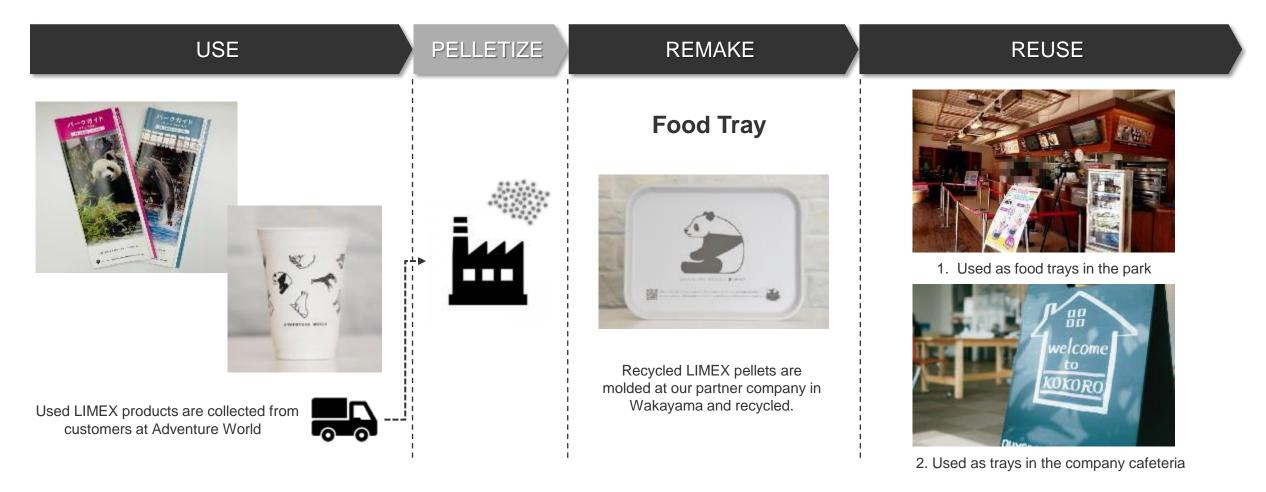
https://global.tb-m.com/

My e-mail: t-nunomura@tb-m.com



#### Track Record of LIMEX Closed-loop recycling

Used LIMEX products (park guides and cups) were collected and recycled into trays for use in the park's bakery and employee cafeteria



#### Our History

2008 Yamasaki started importing stone paper made in Taiwan 2010 Started developing a unique technology that is different from the stone paper 2011 **Established TBM Co., Ltd.** 2014 Registered the basic patent for LIMEX 2015 1<sup>st</sup> plant started operation in Shiroishi-city, Miyagi prefecture Launched LIMEX as a paper alternative 2016 2018 Launched LIMEX as a plastic alternative 2019 **Started overseas business development** 2020 Launched CirculeX (recycled plastic) 2021 2<sup>nd</sup> plant started operation in Tagajo-city, Miyagi prefecture 2021 Established TBM VN Co., Ltd. in Hanoi, Vietnam 2022 1<sup>st</sup> recycling plant started operation in Yokosuka-city, Kanagawa prefecture







#### Fund Development

More than \$200 million from public ministry and private companies.

































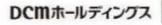


















#### **Korean Conglomerate SK Group**

TBM and SK Group agreed on a \$123 million capital and business alliance to accelerate the global expansion of LIMEX.



#### World-class recognition

LIMEX is patented in over **40 countries worldwide**.







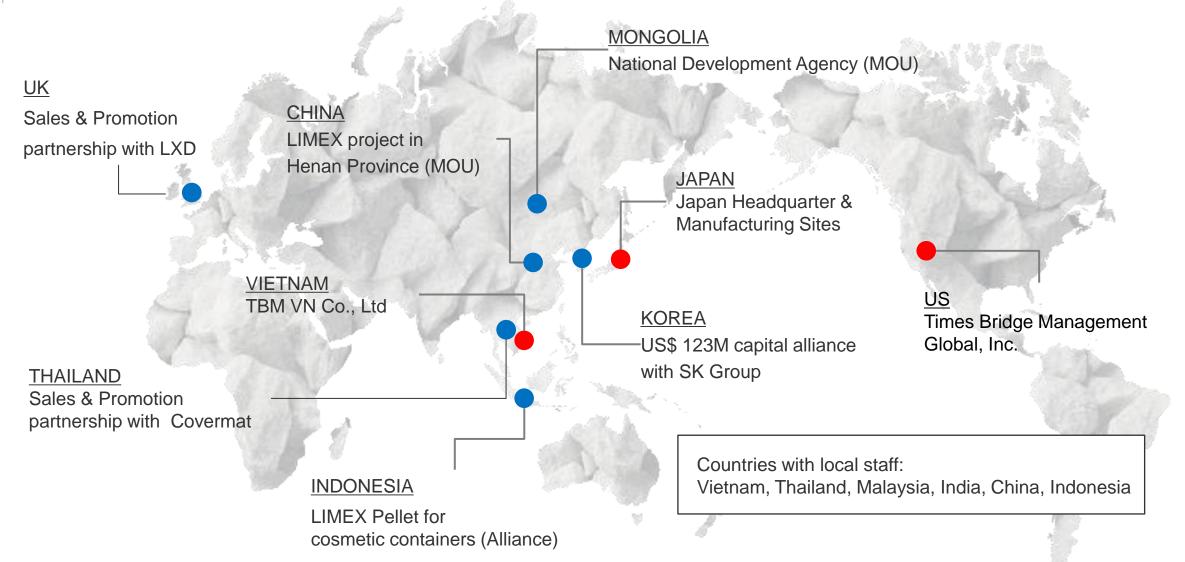
Registered in "STePP" the sustainable technology dissemination platform by UNIDO Introduced at COP as a member of the Japanese government delegation

Participated at the G20 Innovation Exhibition

#### Office

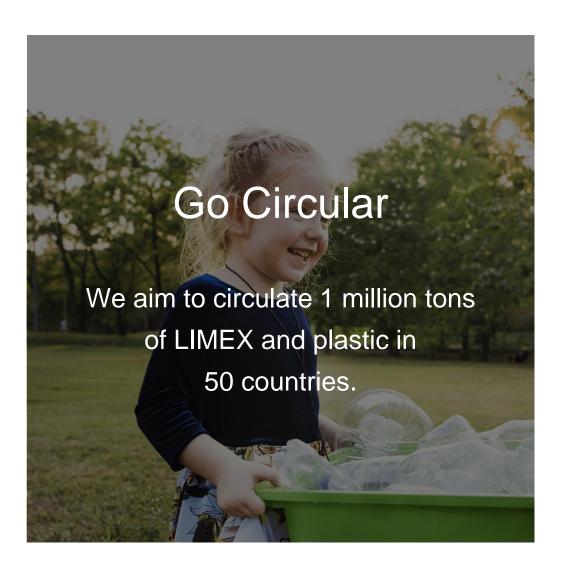
### Global Expansion and Partnership

Partner / Project

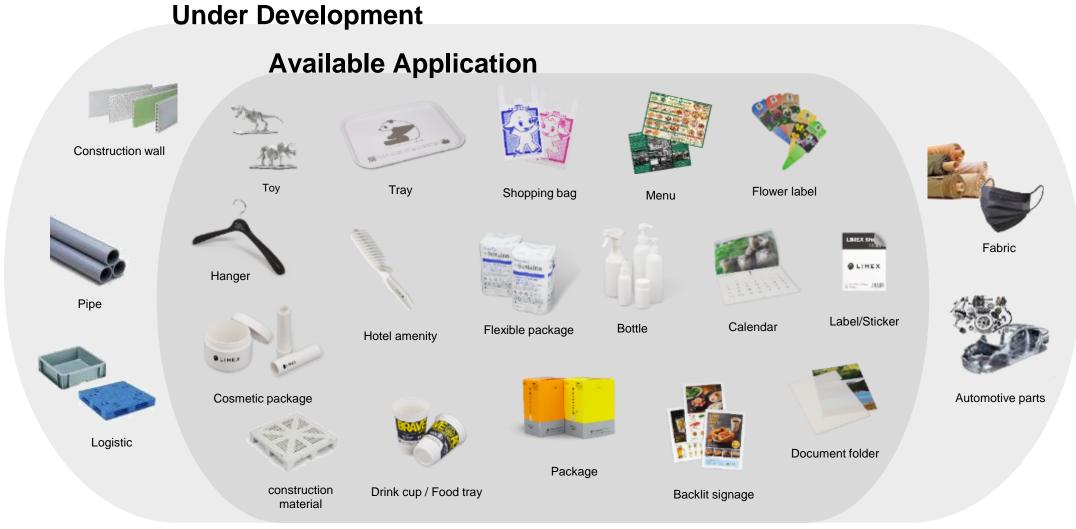


#### Ambitious mid-term goal "TBM Pledge 2030"





## Development for wider applications



#### Case Study: Food tray

@Rock Field, a major Japanese deli brand



#### **A-PET** → **LIMEX**

- Reduce plastic by approx. 38% per year
- Reduce CO<sub>2</sub> emissions by approx. 22% per year
- Can be microwaved

#### Case Study: Cosmetic packaging

@KEMAS, an Indonesian cosmetic packaging manufacturer



#### **ABS** → **LIMEX**

- Reduce CO<sub>2</sub> emission by **28**%
- Reduce resin usage reduction by 37%
- Cool and luxurious feeling
- Effective branding story with cosmetic containers made from limestone

## Products made with recycled material "CirculeX"

#### Umbrella

Umbrellas made from CirculeX are delivered nationwide with cross-industry collaboration.



#### **Waste Bag**

LAWSON switched waste bags from virgin plastic to CirculeX waste bags made from plastic waste collected from Southeast Asia.

