



2026 PMI BIOTECH Inc.

Recycling the by-products of aquaculture produced by humans in an environmentally friendly way & Presenting them back to humans
As Low-Carbon Products



01. Business Overview

1. Business Overview

PMI BIOTECH Inc.: Premium Materials Innovation

Recycling Sea-shells, mainly oyster shells,
We manufacture premium and industrial calcium products through eco-friendly processes.
A Company that Contributes to the Environment and Industry.



02. Problem · Solution

2. Solution

PMI BIOTECH Inc.: Premium Materials Innovation

Recycling Sea-shells, mainly oyster shells,
We manufacture **premium and industrial calcium products** through eco-friendly processes.
A Company that Contributes to the Environment and Industry.

Origin : Natural shells



* Customized raw materials for final products

100% Liquid solution process Non-Calcining process



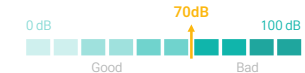
NO VOC



TVOC

Process	TVOC
Calcining process	Over 1-30ppm
Solution process (PMI)	0

NOISE ZERO



70dB or less = Quiet office noise at the level of a normal conversation

CO₂ Emission Zero



ODOR ZERO

Mercaptan: N.D

Hydrogen sulfide: N.D

Amines: N.D

Aldehyde: N.D

02. Problem · Solution

2. Solution

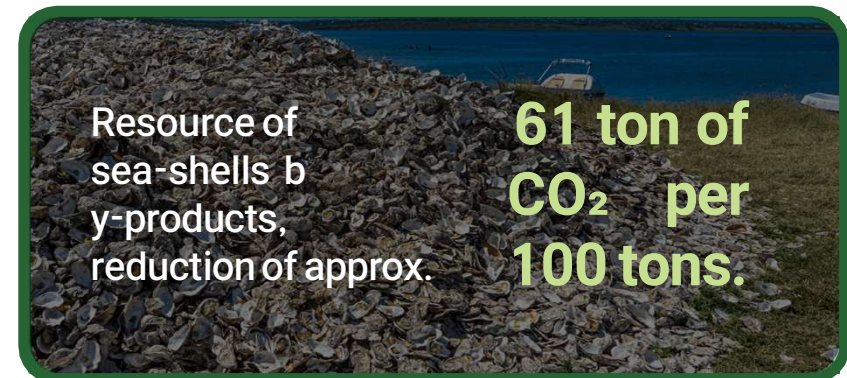
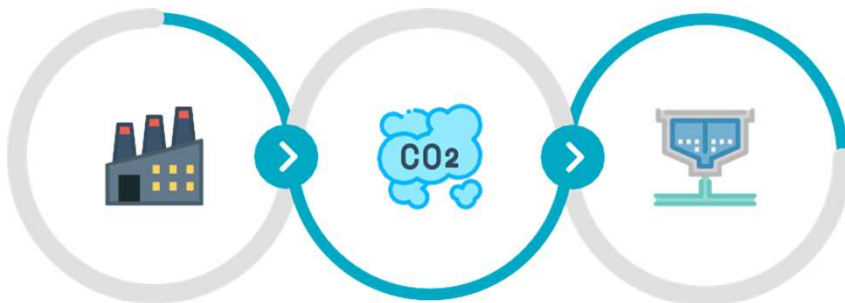
01 Recycling of Sea-shells by-products Technology



02 Wastewater Recycling Technology



03 CO₂ Recycling Technology



03. Products

1. Premium Grade

Application : **Pharmaceutical / Nutraceutical**

Calcium Products

TCC

Tricalcium citrate tetrahydrate

Powder/granule

- High solubility & dispersion
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- High Ca^{2+} content (24%)
- 15kg/bag
- USP/MFDS/FCC/BP

CBG

Calcium Bisglycinate

Powder

- High solubility & dispersion
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- High Ca^{2+} content (24%)
- 15kg/bag
- USP/MFDS/FCC/BP

PCC

Calcium carbonate_Precipitated

Powder/granule

- High Ca^{2+} content (42%)
- Fine particle size : $D_{90} \leq 2.0 \mu\text{m}$
- 25kg/bag
- USP/MFDS/FCC/BP

HCC

Calcium carbonate_Heavy

Powder/granule

- High Ca^{2+} content (42%)
- Fine particle size : $D_{90} \leq 5.0 \mu\text{m}$
- 25kg/bag
- USP/MFDS/FCC/BP

03. Products

1. Premium Grade

Application : **Pharmaceutical** / **Nutraceutical**

Calcium Products

TCPA

Powder/granule

Calcium phosphate_Tribasic Anhydrous

- Ca:P Ratio : 3:2
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- 25kg/bag
- USP/MFDS/FCC/BP

DCPA

Powder/granule

Calcium phosphate_Dibasic Anhydrous

- Ca:P Ratio : 1:1
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- 25kg/bag
- USP/MFDS/FCC/BP

03. Products

1. Premium Grade

Application : **Pharmaceutical / Nutraceutical**

Calcium Magnesium Products

Powder

TCM

Calcium Magnesium Citrate

A **pre-chelated complex** that chemically bonds Calcium, Magnesium, and Citric Acid into a single molecular structure for balanced mineral delivery.

- Provides a standardized ratio of Ca:Mg (2:1)
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- Superior Solubility & dispersion
- 15kg, 20kg, 25kg/bag
- USP/MFDS/FCC/BP

03. Products

1. Premium Grade

Application : **Pharmaceutical / Nutraceutical**

Magnesium Products

Powder

MBG

Magnesium Bisglycinate

- Superior Bioavailability
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- Neurological Synergy
- 15kg, 20kg, 25kg/bag
- USP/MFDS/FSC/BP

Powder

MGC

Trimagnesium citrate

- 3:2 ratio of magnesium to citric acid
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- High Solubility & dispersion
- 15kg, 20kg, 25kg/bag
- USP/MFDS/FSC/BP

Powder

ML
TD

Di-magnesium malate

- ATP Production & High purity
- Fine particle size : $D_{90} \leq 6.0 \mu\text{m}$
- High Mg^{2+} content
- 15kg, 20kg, 25kg/bag
- USP/MFDS/FSC/BP

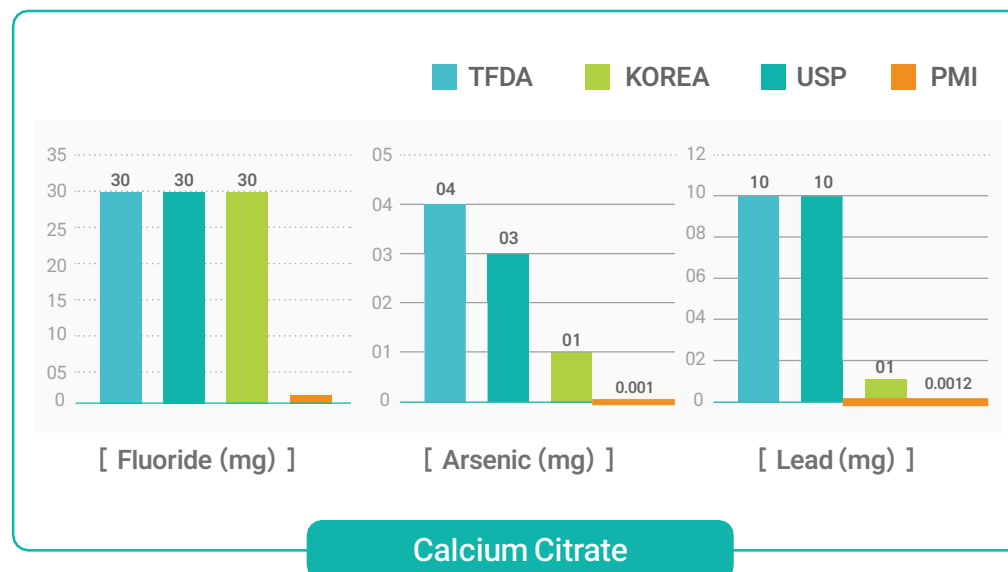
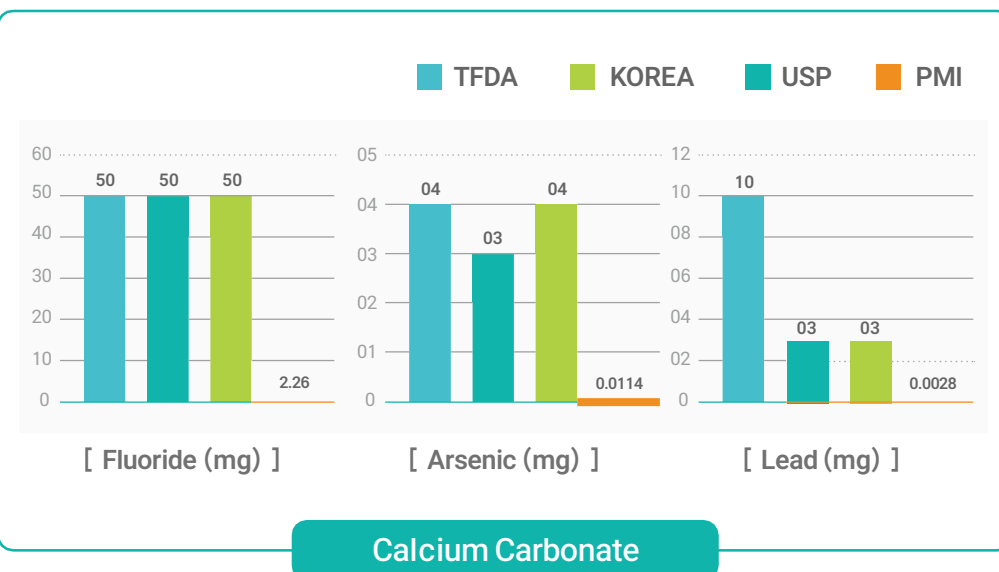
03. Products

1. Premium Grade

Technological Excellence: High Purity

Calcium content in Calcium Citrate: 24% (other's: 17-21%) | Calcium content in Calcium Carbonate: 42% (other's: 15-35%)

	ASSAY	Lead	Arsenic	Mercury	Fluoride
Calcium Carbonate	99.00%	0.0028 ppm	0.0114 ppm	-	2.26 ppm
Calcium Citrate	98.5%	0.0012 ppm	0.0010 ppm	0.0007 ppm	0.95 ppm
Ca/Mg Citrate	99.00%	0.06 ppm	Non detected	0.01 ppm	1.0 ppm

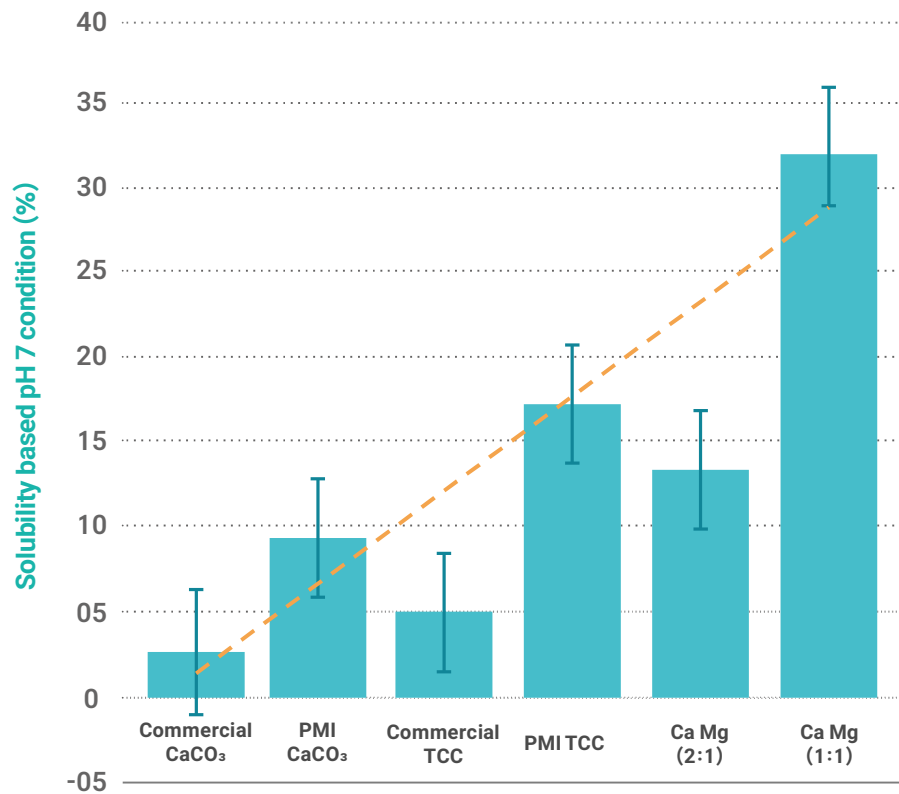


03. Products

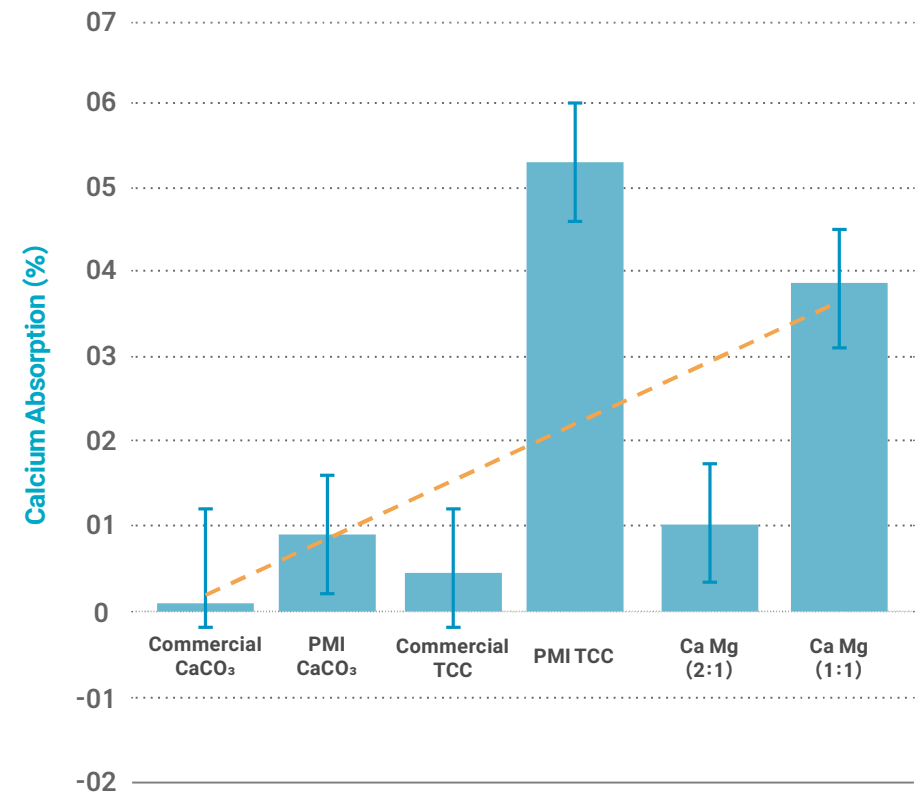
1. Premium Grade

Solubility & Absorption rate

Solubility



Calcium Absorption Rate (using Caco-2 enterocyte)

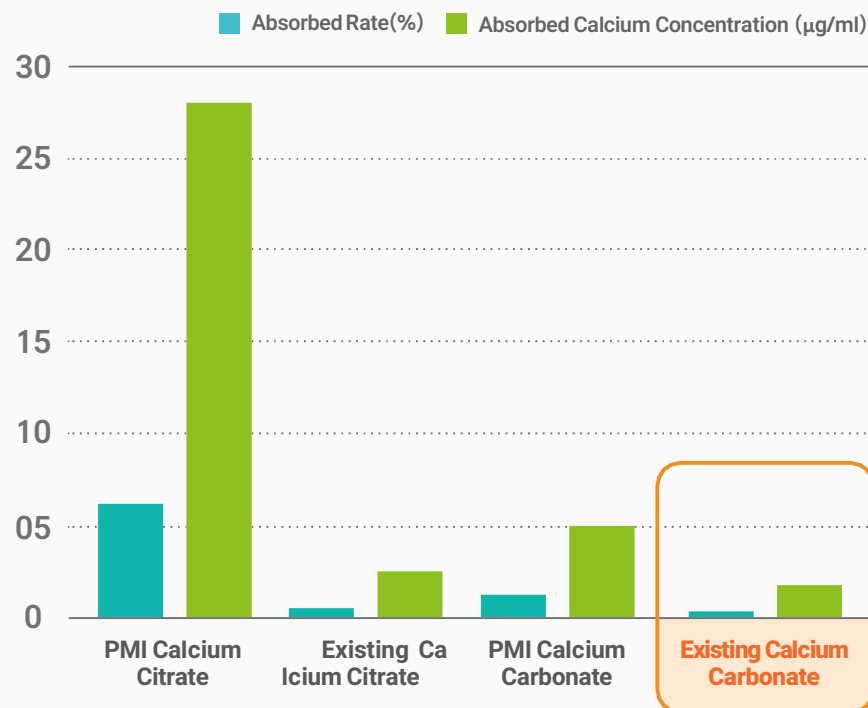


03. Products

1. Premium Grade

High Ca^{2+} ion absorption rate into human body

Absorbed Calcium Concentration & ABSORPTION RATE of Each Calcium Supplement



The Less Amount, the Better Effect!

- According to the research, other calcium Citrate has less absorption rate than PMI Calcium citrate.
- The less amount you put into, the better effect You would expect.
- e.g. Using 1mg of PMI's calcium carbonate, 5 times more absorption rate shows comparing other's calcium citrate.

* Source: "Evaluation of the Bioavailability of an Eco-Friendly Calcium Preparation Kookmin University, 2025

03. Products

1. Premium Grade

4 Key-Points



High Quality products

- High Purity/Solubility
- High dispersion
- Fine particle size
- High Absorption rate

01



Liquid Process

- No use kiln, No fume
- Low heavy metal
- No TVOC, No noise

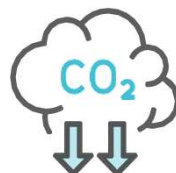
02



Carbon 100% Re-use(For Net Zero)

- Generated carbon during Process is used for bubbling to make porous material

03



Reduction of 3,671 tCO₂

- Oyster shell resource recovery : $1,937 \text{ ton} \times 0.61 \text{ tCO}_2 = 1,182 \text{ tCO}_2$
- CO₂ recycling : 1,633 tCO₂
- Regeneration Energy : 856 tCO₂

04

03. Products

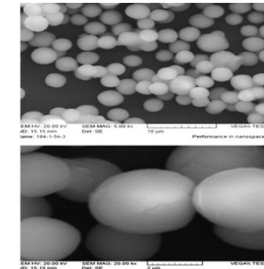
1. Premium Grade

Technological Excellence : High solubility • Particle size

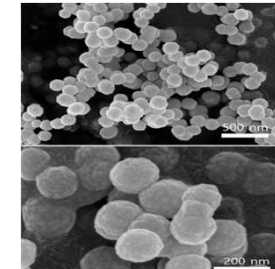
High Solubility

	Existing	PMI
Calcium carbonate	1.4 mg/100mL	14 mg/100mL
Calcium citrate	0.85 g/L	0.95 g/L
Highly Soluble Calcium citrate	None	7.6 g/L

Particle size

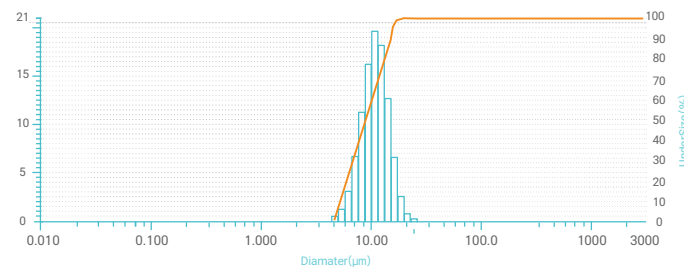


[Micro calcium citrate (2µm)]

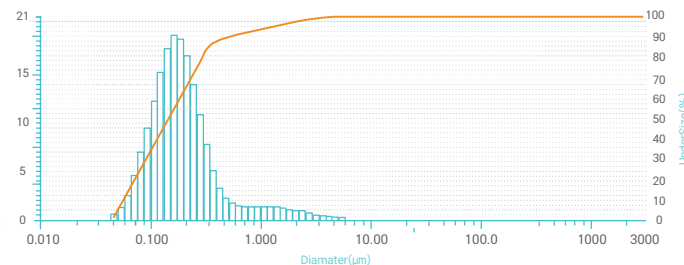


[Nano calcium citrate (200nm)]

Micro calcium
citrate (10µm)



Nano calcium c
itrate (300nm)



“

Key Advantage : Calcium products produced by the liquid process have high purity and higher solubility compared to competitors. The structure is not compromised as it doesn't undergo high-temperature heat treatment.

”

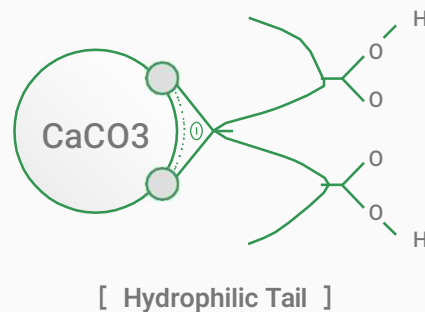
03. Products

1. Premium Grade

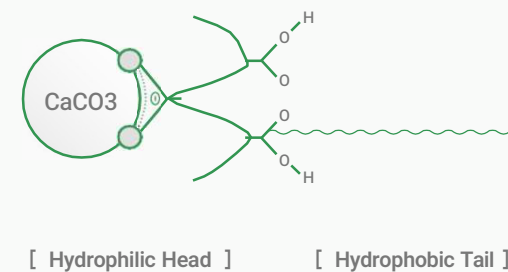
Technological Excellence : Dispersibility

Dispersing ability suitable for application (Hydrophilic·Hydrophobic)

Hydrophilic

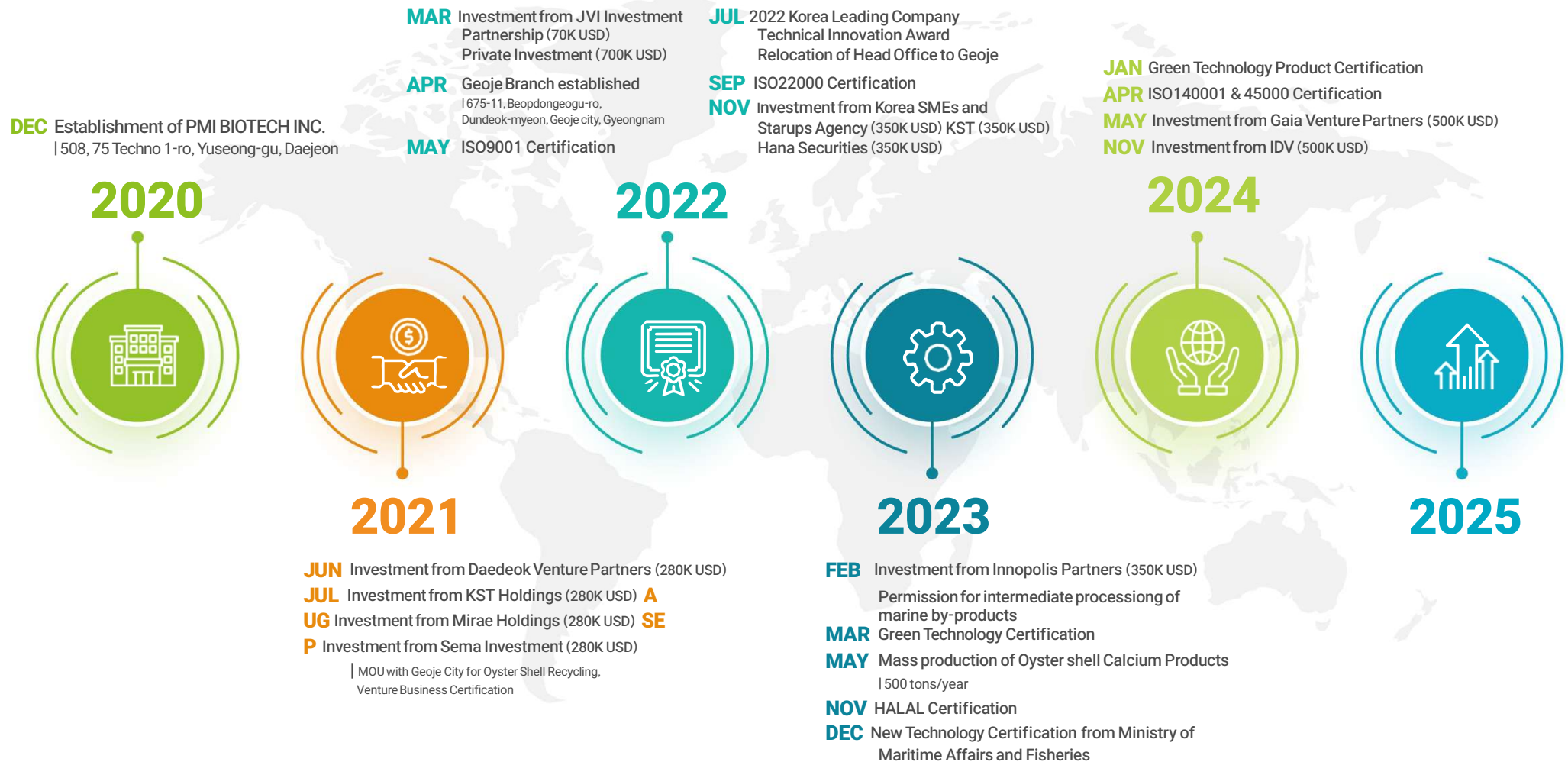


Hydrophobic



07. Company Overview

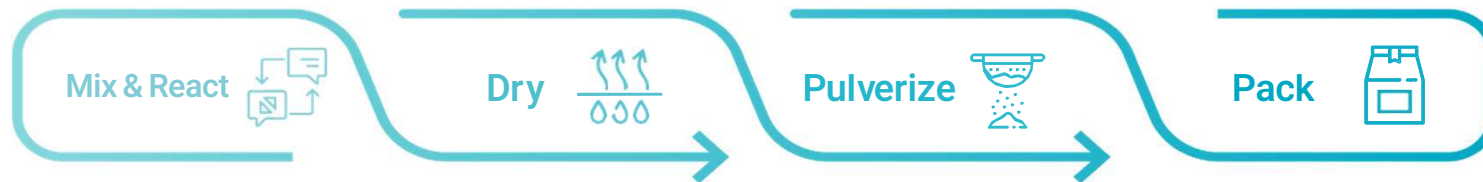
1. History



08. Competitor Analysis

1. Milestone

Ca/Mg Citrate Manufacturing Process (1,000 tons/year)



Process Flow of Calcium Citrate (2,000 tons/year)



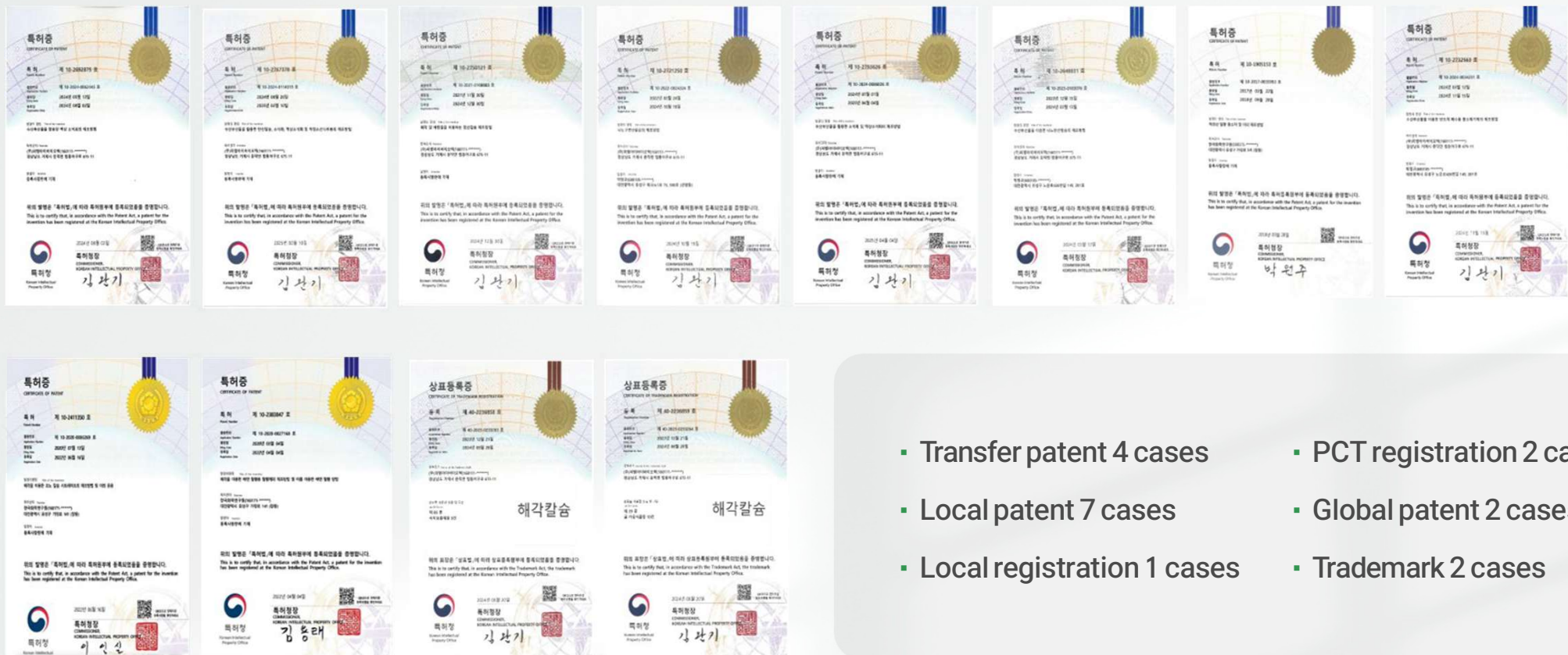
Calcium Phosphate Manufacturing Process (2,000 tons/year)



08. Competitor Analysis

1. Problem

Patent List



- Transfer patent 4 cases
- Local patent 7 cases
- Local registration 1 cases
- PCT registration 2 cases
- Global patent 2 cases
- Trademark 2 cases

08. Competitor Analysis

1. Problem

Certificate



ISO 9001

ISO22000

ISO14001

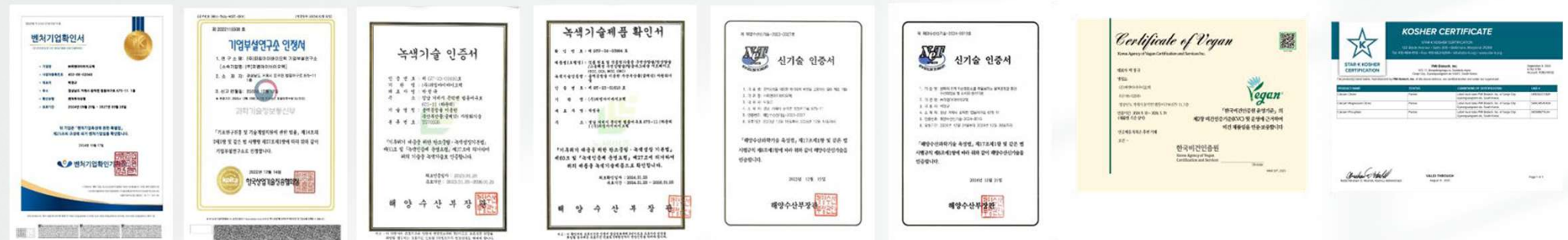
ISO45001

FSSC22000

TFDA

HALAL

FDA FRR



Venture

R&D

Green Tech

Green Product

New tech(I)

New tech(II)

VEGAN

KOSHER

08. Competitor Analysis

2. Shareholder Status & Investment Proposals

CO₂ Reduction

Resource Recycling

01

Recycling of Marine By-product
(Natural materials)



02

Wastewater Recycling



Carbon Neutral



Carbon Negative





Thank you

We appreciate your time and attention.