

# Transforming bio-waste into sustainable solutions

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# THAILAND: POLLUTION CAUSED BY AGRICULTURAL WASTE DISPOSAL

Locations of farming



Total biomass generated (waste)

**174 million tons per year**

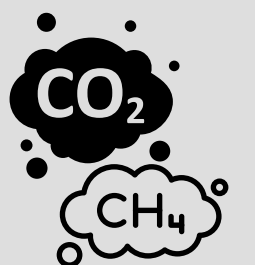
Most Biomass (waste ) Disposal Method

=



Environmental Impact

Generate economic loss



**8.3**

Billion Thai Baht /year



# Vision

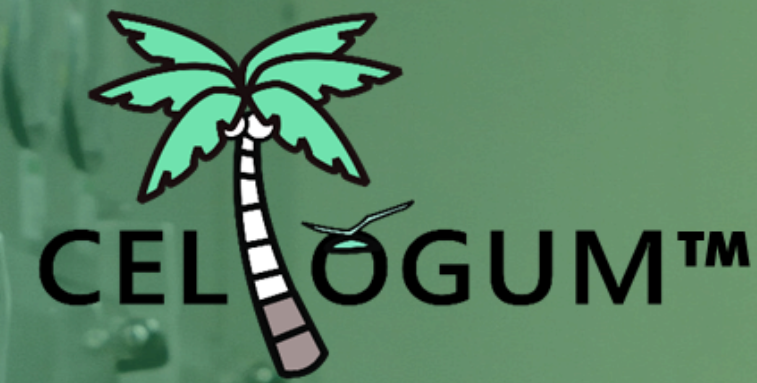
**“A world where bio-waste innovation, creating sustainable solutions that drive a cleaner and greener future.”**

# Mission

**“To Revolutionaize sustainability by upcycling bio-waste into high-performance additives, delivering eco-friendly solutions that reduce waste, conserve resources and empower a circular economy.”**



# BIONEXT TECHNOLOGY



**BIONEXT**  
Renewable resource for future

1

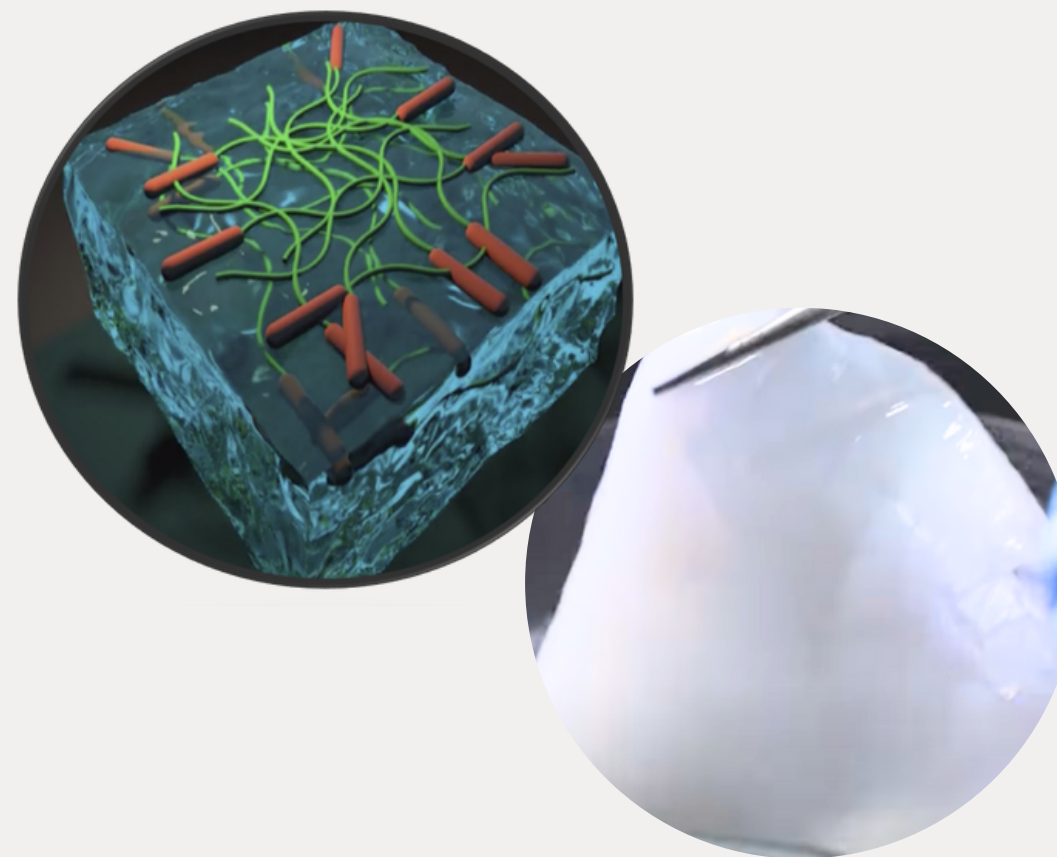
## Bio-waste

- Uncommercially use plants part
- By-product of production



2

## Bacterial Cellulose or Bio-Cellulose (Plant-Free Cellulose)



3

## BioNext MFG Process

**Biotechnology patented**  
**Patent Pending # 2101007602**



4

## High Quality Cello-gum

**Turn bio-waste to commercially additives substance**





# SUCCESS CASE OF BIO-WASTE MANAGEMENT I

## Partnership with



By using Bionext to manage the waste

Disposal Cost and  
Envir. Impact



By-product  
= Waste

Save Disposal Cost  
1.1 MB per year



2000 ton per year



Scraps

Waste 2 ton/day

~20% of Production

Product  
"Coconut-jelly "

\*Run on Pilot plant capacity 100 kg / day



# SUCCESS CASE OF BIO-WASTE MANAGEMENT II



1

## Raw material

- By-product of coconut jelly production
- Coconut jelly scrap



2

## BioNext manufacturing process

- Bionext take the raw material and run through our technology



3

## Cellulose

- Resulted in fine Cellulose based powder
- Commercially known as Cellogum



4

## Food Stabilizer

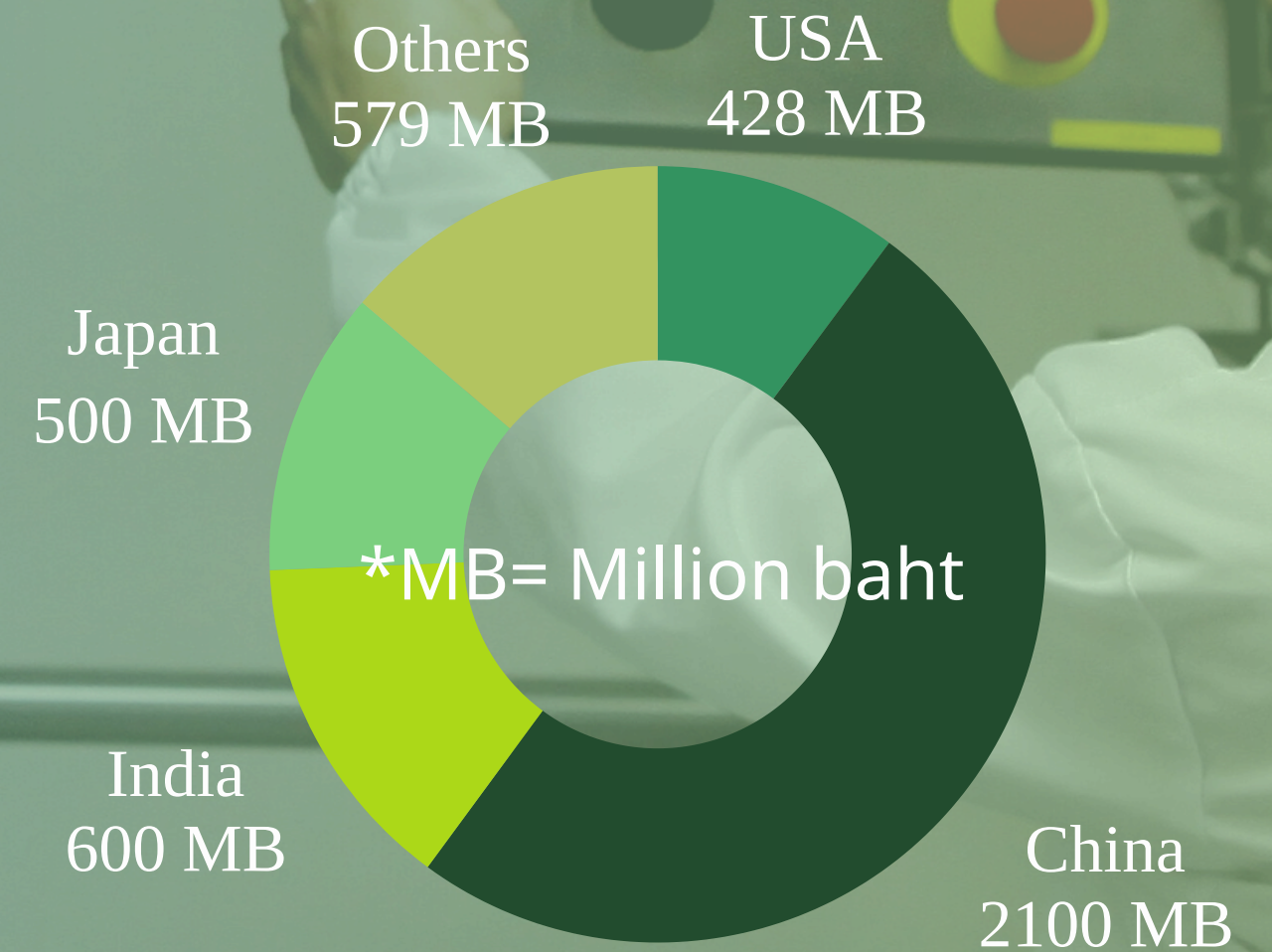
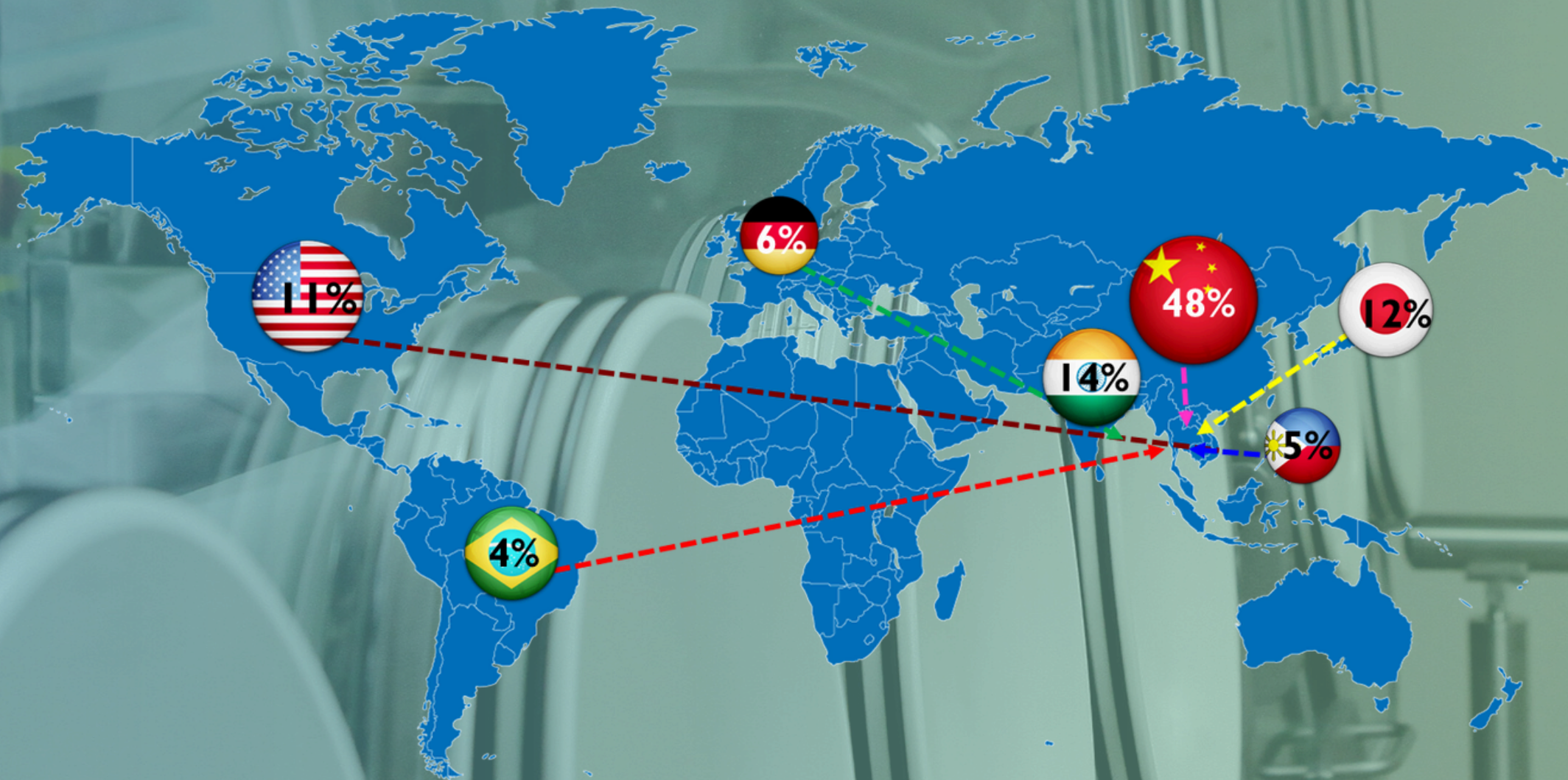
- Commercially can be use as ingredience compound in F&B industry or Phaemaceutical industry





# POTENTIAL OPPORTUNITY IN THAILAND MARKET

Thailand imports Cellulose and its derivatives annually for over  
**4,200 MB** from more than 40 countries.



<https://www.dit.go.th/>

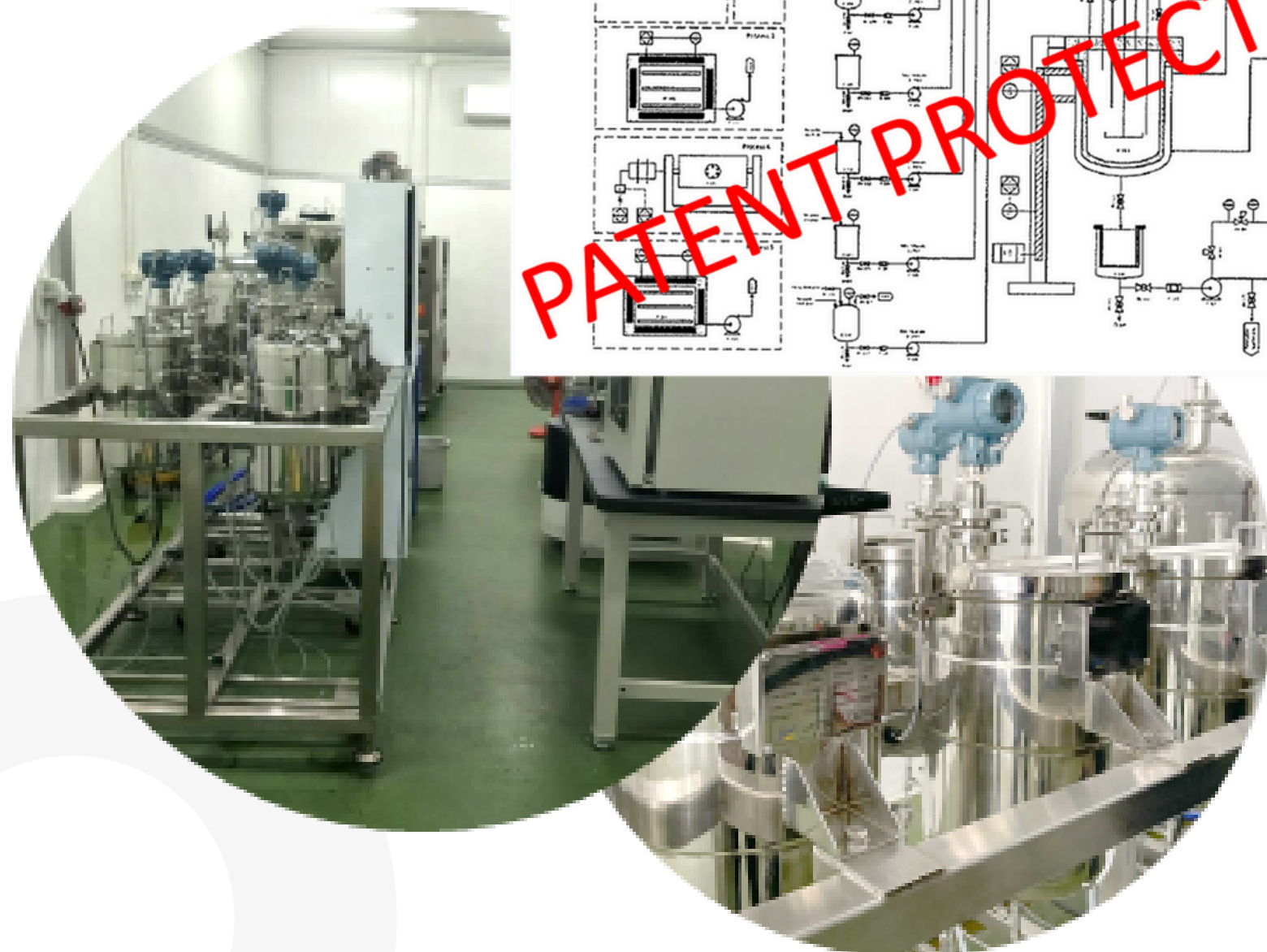
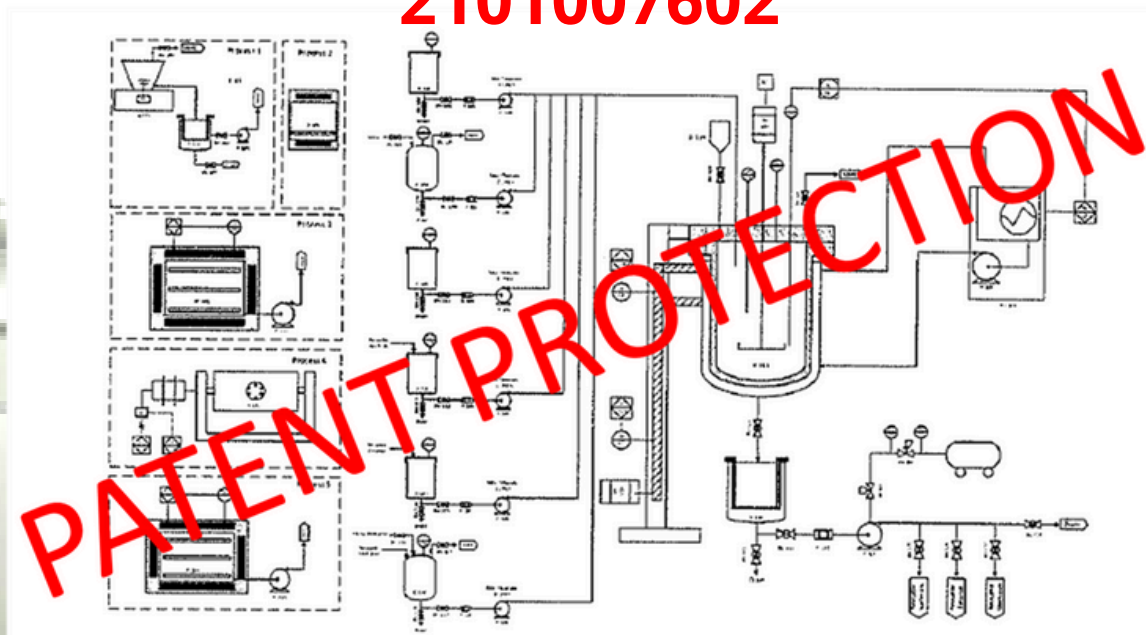


# OUR SERVICE

## Production Line

- Cellogum™

**Patent Pending No.**  
**2101007602**



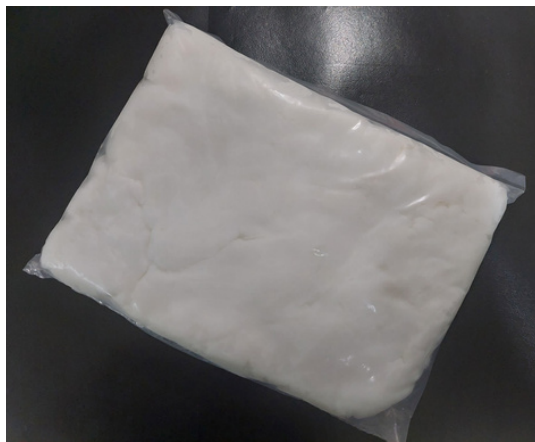
## Sustainable additives products

- Cellulose derivatives  
shelf life 2 years  
depends on final products





# PRODUCTS IN DIFFERENT STAGES



Slurry

Solution

Fibers

Fine Powder

## Examples of Colloids in Real Life



Body creams



Milk



Ice cream



toothpaste  
Sauce



Bread



Yoghurt



Beer



Meat substitutes



Edible film



Sausage and ham



Pet food



Rheology modifier



Skincare & Cosmetics



# MARKET SIZE

BY APPLICATION OF BIO-CELLULOSE



402 Million USD

Food & Beverage Sector



820 Million USD

Cosmetic & Skincare Sector



# CHARACTERISTICS OF THE MARKET

BY APPLICATION OF BIO-CELLULOSE

## Requirements



**Supply with high quantity**

**Easily to rehydration  
(Short time processing)**

**Strict regulation on safety**

**Transparency in supply chain**

**Low carbon footprint  
(Regulation of CBAM and etc.)**



## Bio-Cellulose (Our technology)

**High water holding capacity  
(Easily to process with less amount)**

**High purity and low toxicity**

**Environmentally friendly and low  
carbon process**

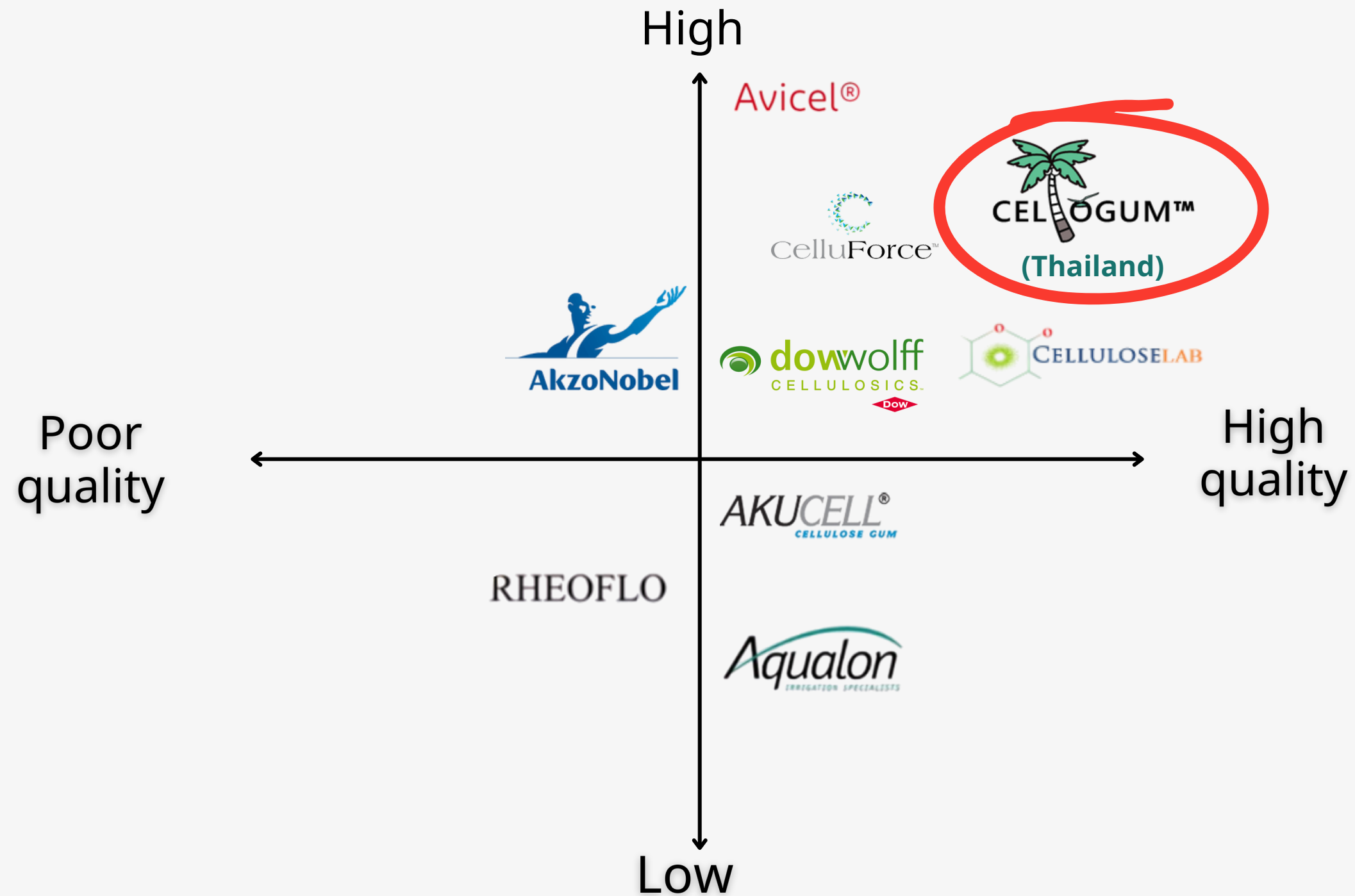
**Fast regenerative without  
deforestation**



# COMPETITIVE ANALYSIS

## Our Market Advantages

### Product Portfolios



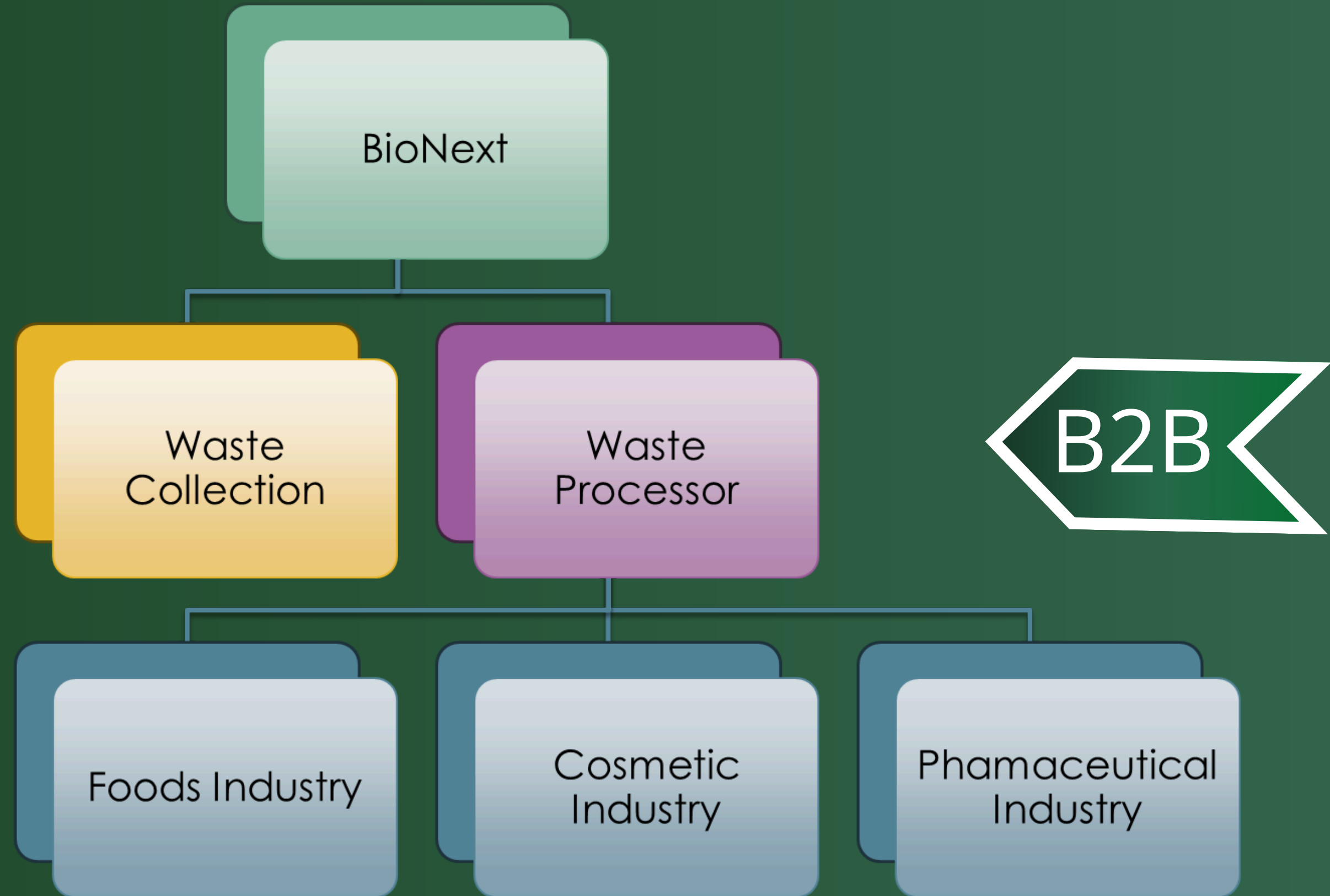
1 Cost Advantage

2 High purity and low toxicity

3 Environmental friendly and low carbon process



# Business Model





# Journey

Renewable resource for future



2016

2018

2020

2023

2025

2026

2027

Upcycling  
agricultural  
waste (Lab scale)

High purified  
additives from  
Bio-Cellulose

Established  
Pilot plant  
100 KG/Day

BioNext Co., Ltd.  
Established

Redesign  
Pilot plant to  
increase  
capacity

Acquire  
MFG Certificates  
FDA

Production  
Facility

Key partners



**C.C.AUTOPART**  
OEM automotive manufacturer professional



**THAI CENTRAL MECHANICS**  
บริษัท ไทยเซ็นทรัล เมคคานิกส์ จำกัด



**Milott Laboratories**



# IF YOU HAVE BIO WASTE THAT NEED TO BE DISPOSE ,CONTACT US !

1



**Contact Bionext**

2



**Tell us what kind of byproduct or bio-waste you need to dispose**

3



**Sent waste sample to our lab to analyse**

4



**Create a contract**

**\*To agree on price rate of service and frequency of waste pick up time**

5

**Bionext will collect bio-waste from your factory**





# KEY SUCCESS FACTOR





# CORE TEAM



**Varoon Varundyanon**  
**CEO and Managing Director**

Former MD of Valence Co., Ltd.  
Former Department Manager of INSEE  
Ecocylce Co., Ltd.



**Prof. Hathaikarn Manuspiya**  
**CTO**

Bacterial Cellulose specialist  
Director of Center of Excellence on  
Petrochemical and Material Technology  
Consultant of Union Link Co., Ltd.



**Prof. Sarute Ummartyotin**  
**CPO**

Bacterial Cellulose specialist  
Consultant of Thailand Textile Institute



**Phiyawat**  
**Sathidvongkun**  
**Plant Manager**

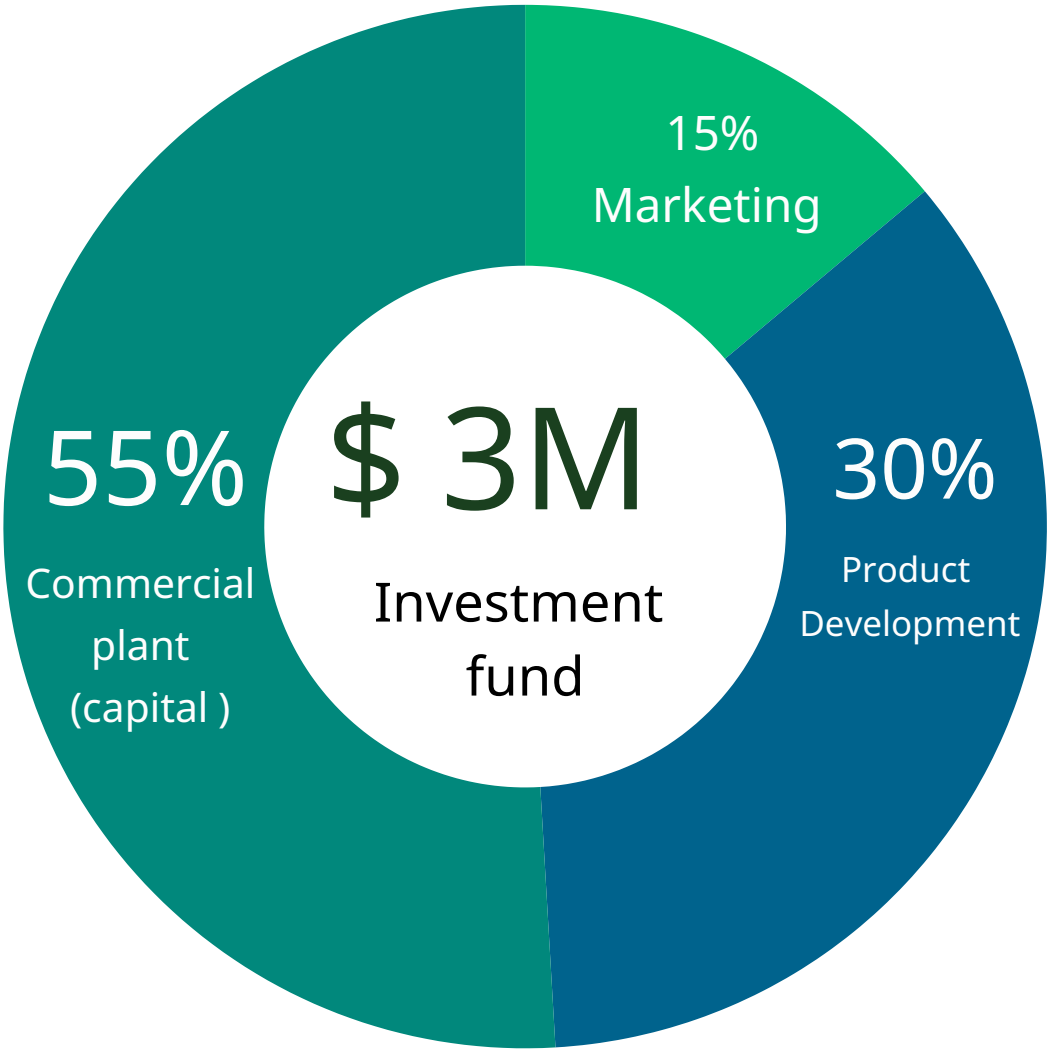
Former Researcher at Pundao Project  
Former Technical Analyst at CU  
Innovation hub



# PARTNERSHIP

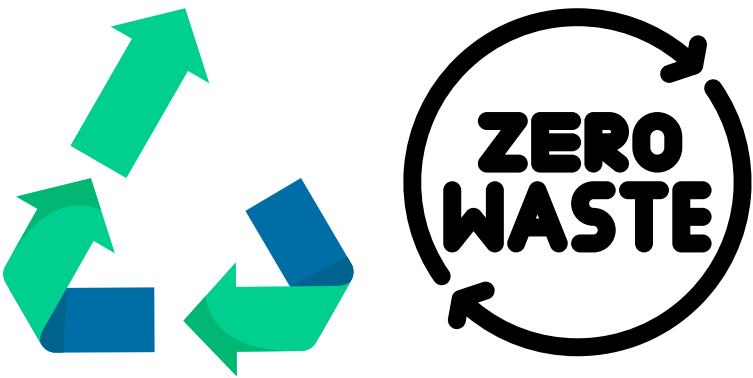
We are seeking partnerships to achieve our objectives.

## INVESTMENT

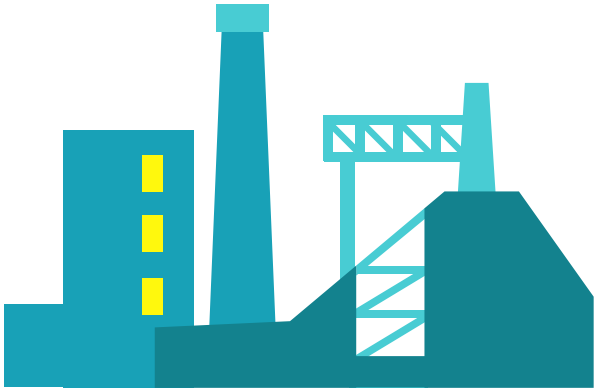


**Angel Round (use of fund)**  
Investment opportunity

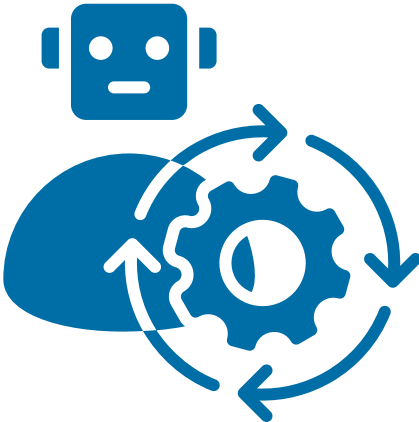
## COLLABORATION



**Upcycling  
by-product material**



**Commercial plant  
(Engineering design)**



**Automation process**



**Product trial**



In transforming waste into renewable resources —  
not just solving environmental challenges, but we  
are unlocking economic opportunities. Turning  
waste into wealth is not just possible, it is essential  
for a sustainable and prosperous future!



Thank you

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