



# **BETHESDA SCIENTIFIC CORP.**

**An Advanced Micro Encapsulation Platform to Precisely Control and Release Various Active Agents for Maximum Therapeutic Efficiency and Minimal Side Effects**

**Sustainable agricultural &  
Biotechnology platform**

**Andrew Teng, Founder & Chief Executive Officer**

# Achievement

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Raw Material reduction :  
best use

Accurate release :  
paradigm shift

Sustainable business  
model : our responsibility

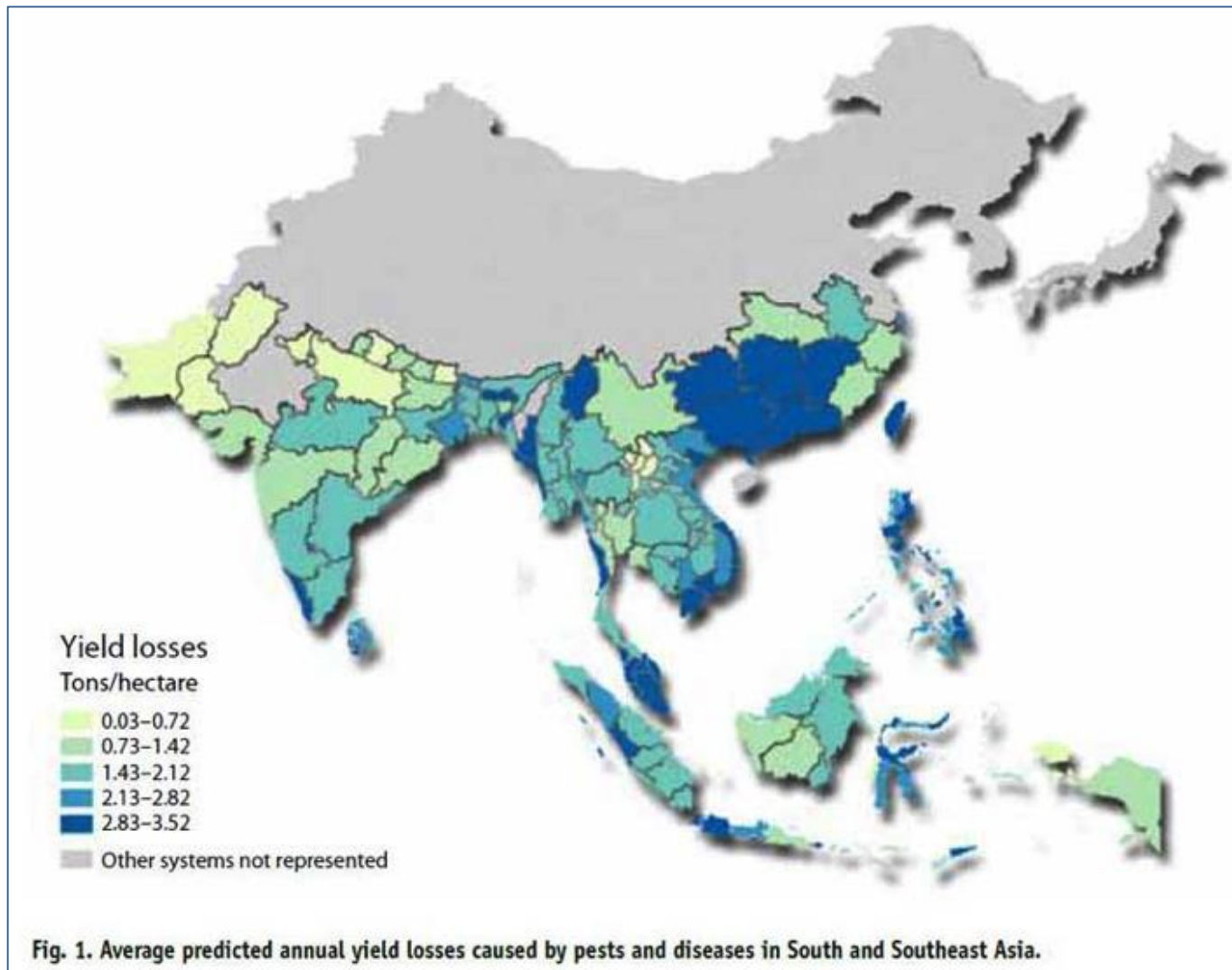
Lightweight features :  
aiming global market

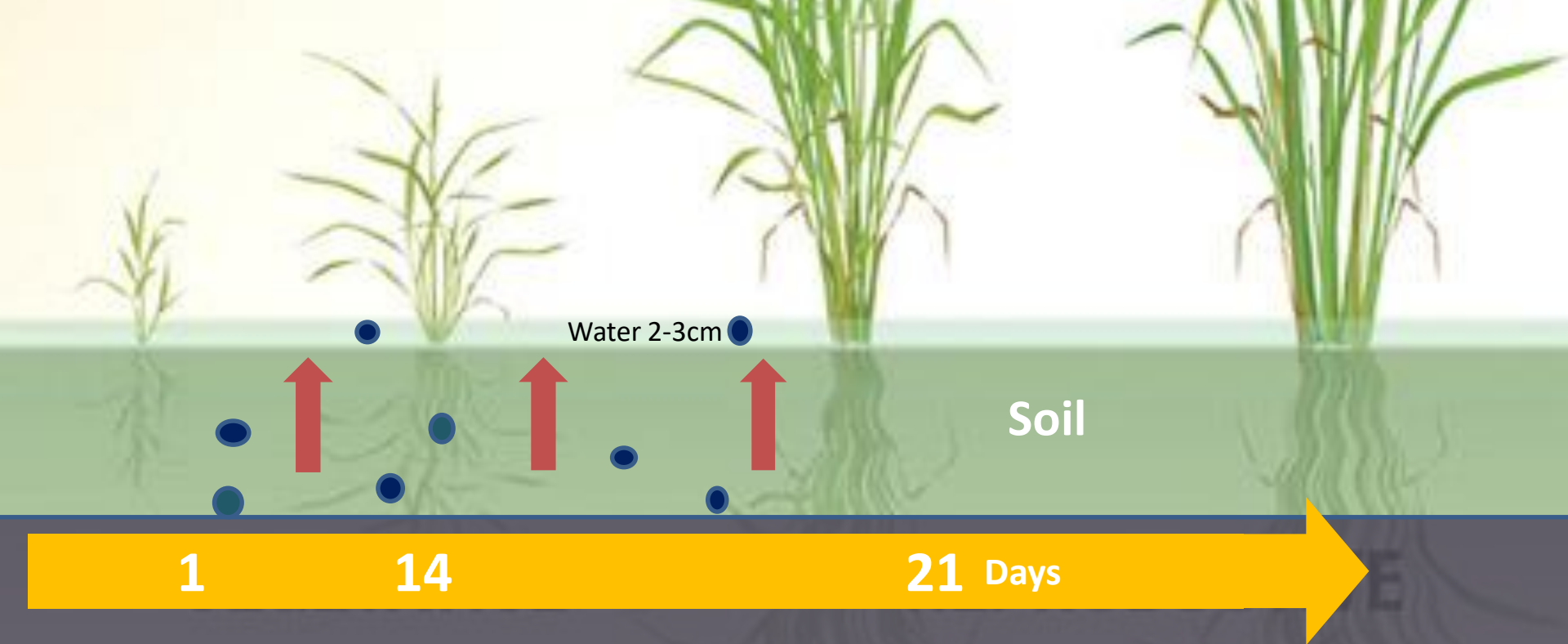
Machine spreading :  
saving time and labor

# Global Threats



# 88% rice seedling under attack






- Rice seedling need to be protected for first **21 days**
- Golden Apple snail out of soil unpredictably usually when temperature in between 20-30 degree Celsius
  - seedling and tiller are the target



# Traditional Solutions



# BSC-21 Out-Performs Competitive Products

	BSC-21		N brand	T brand	S brand
-Using 100% Bio degradable materials -Organic compliance -Medium pH rate	yes		no	no	no
Apply number of times Active agent lasting 8 days	1		2-3	2-3	2-3
<b>Slim pack 30 kg / ha</b> <b>V.S. 500kg / ha</b> <b>SS</b>	30kg		5	500kg	3
<b>Effectiveness average rate in 8 days</b> <b>S</b>	95%		70%	65%	65%

# **Our Solution's Benefits:**

*Source: IRRI, NCHU*

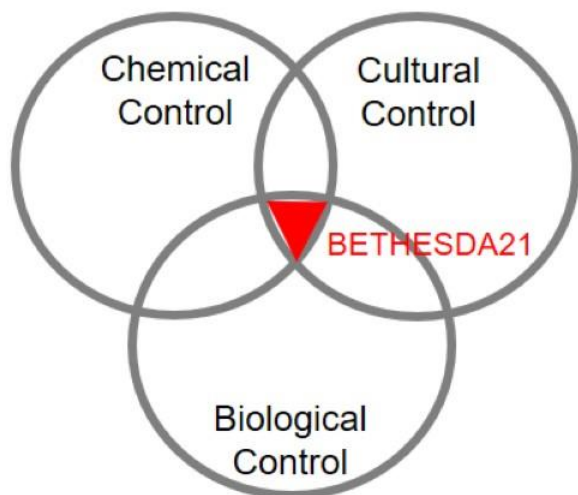
**Increase productivity 20-50 %**

**Increase farmers income 2.7 times**



## BETHESDA21: A highly compatible apple snail control

A combination of controls for apple snails is superior to any single control and may differ from region to region.



The controls to be used depends on

- The needs (e.g. yield & price), resources (e.g. money & manpower) and skills of the local farmers
- The level of infestation and so on

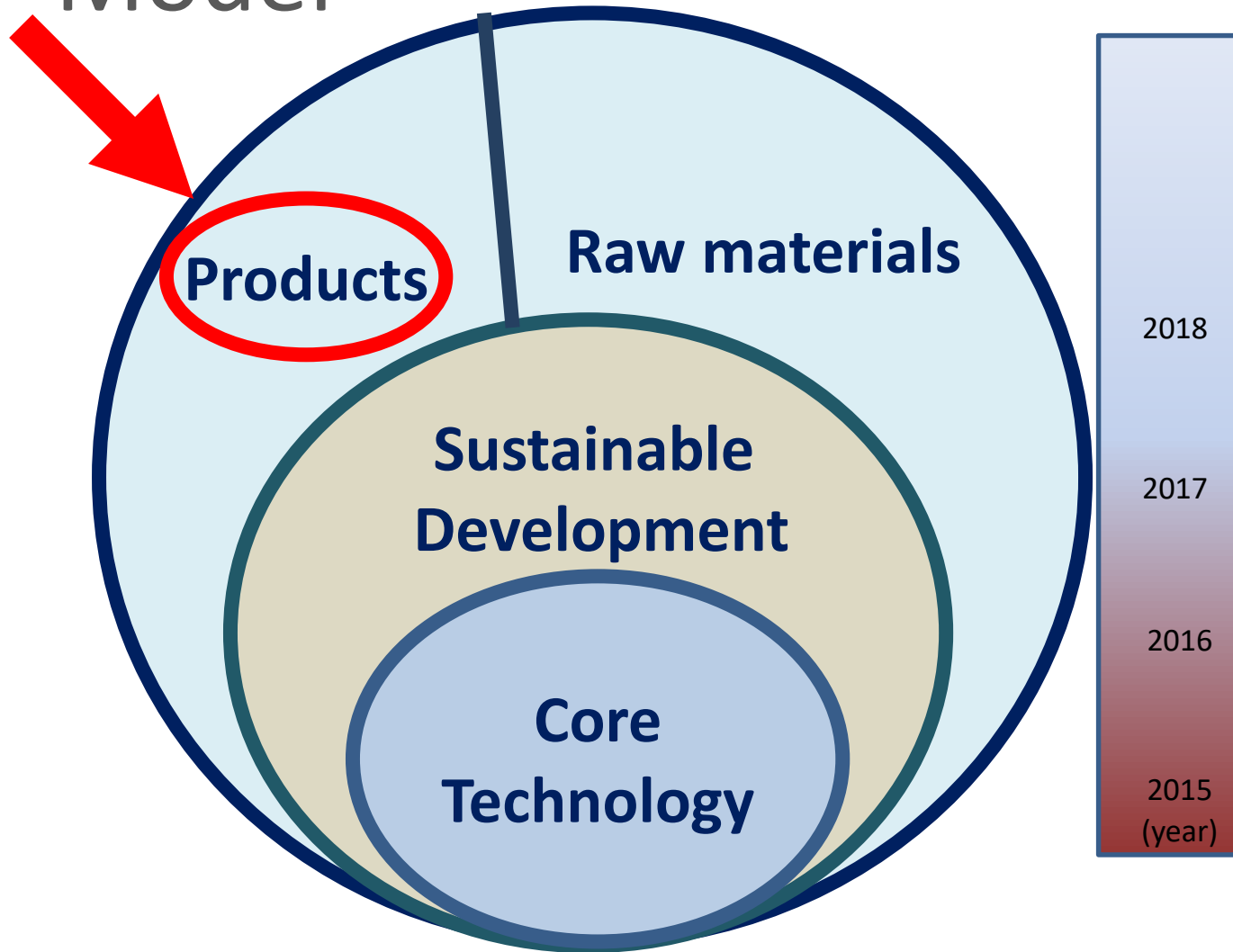
BETHESDA21 is compatible with chemical, cultural and biological controls.

Chemical Control & BETHESDA21	<b>BETHESDA21:</b> <ul style="list-style-type: none"><li>• A botanical adjuvant</li><li>• Compatible with synthetic molluscicides</li><li>• Reduce dosage of synthetic molluscicides</li></ul>
Cultural Control & BETHESDA21	<b>BETHESDA21:</b> <ul style="list-style-type: none"><li>• Ready-to-use botanical molluscicide granules</li><li>• The 8 day apple snail control</li><li>• Use in dry or wet lands (rotary cultivation fields)</li></ul>
Biological Control & BETHESDA21	<b>BETHESDA21:</b> <ul style="list-style-type: none"><li>• Low toxicity to non-targeted organisms in rice fields</li></ul>

# Platform Technology



# Business Model





# 螺麥皂 (苦茶精)

苦茶粕(皂素)0.3公斤

植保製字第00011號



主要成份:皂素

物理性狀:黃褐色粉末

有效期限:2年

防治對象:福壽螺

適用作物:水稻

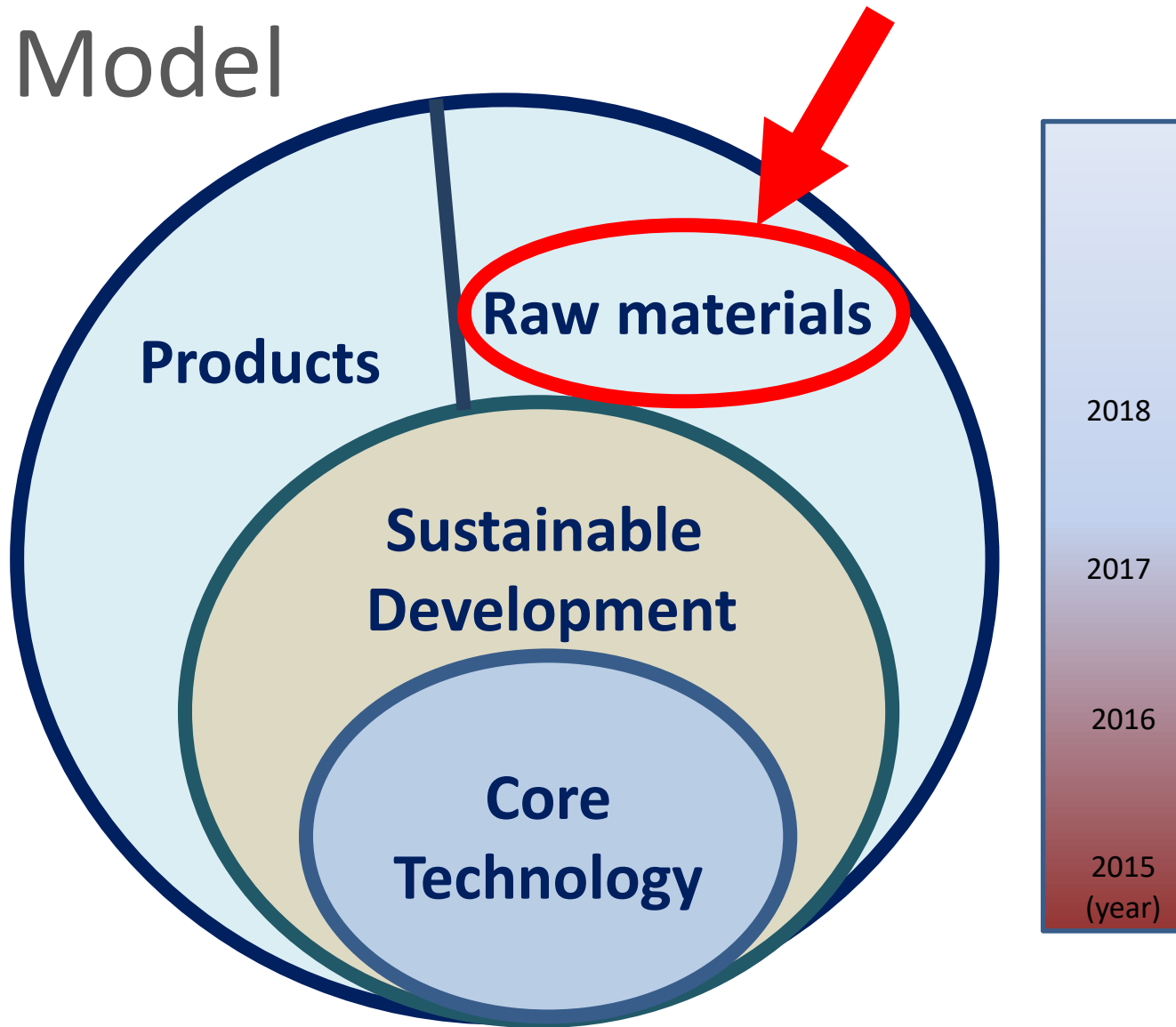
每分地每次施藥量:

將0.3公斤「螺麥皂」溶解於20公升水後，平均噴灑在1分地的水田中，水位不得高於3公分，施藥後3天內不放水效果尤佳。

施藥時期及次數:

福壽螺危害發生時開始施藥，必要時隔3~7天施藥1次。

# Business Model

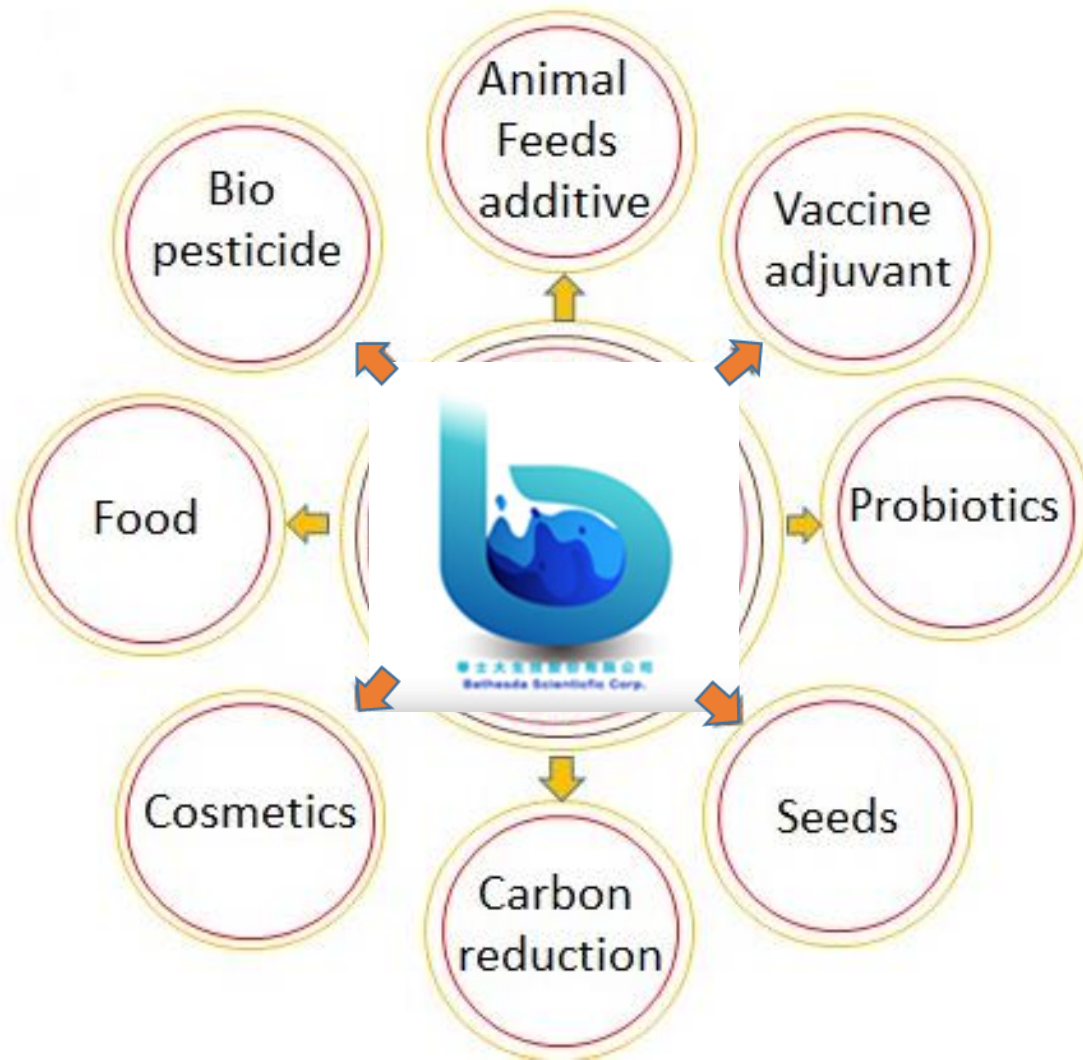




# Semi Raw Materials

# Asset-light Business Model

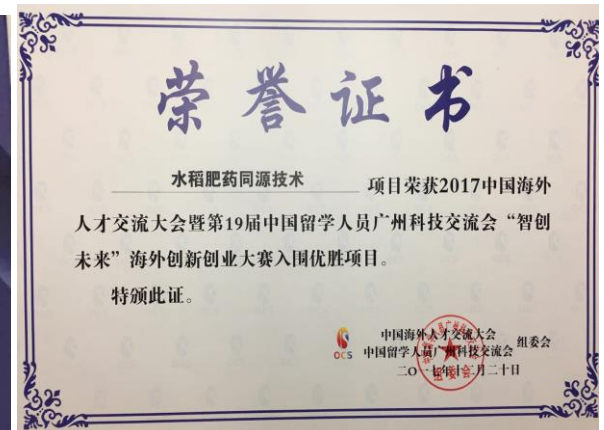
Wide ranges of end-market applications, leveraging our asset-light micro encapsulation platform for 4.0 ERA



# Honor

China "Thousand Leaders"  
award winner

12	宋江选	硅基负极材料产业化
13	邓玉立	水稻肥药同源技术
14	蔡建臣	高性能生物基复合材料系列产品产业化项目



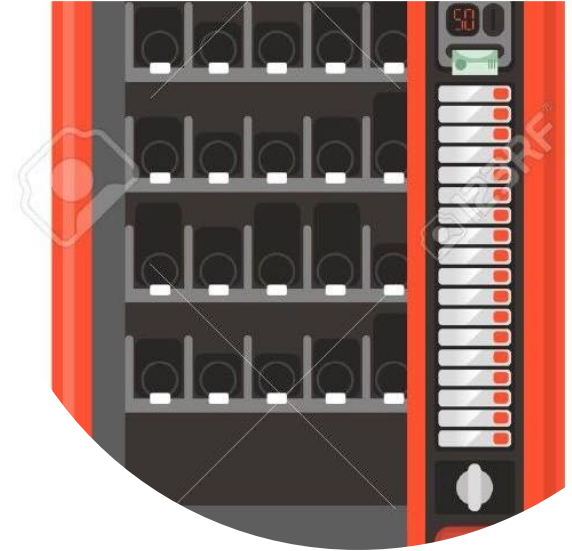
Prepared for Founder Space Mr. Steve  
Hoffman's review

# Arrears



# How to order?

- Smart phone (payment system)
- Kiosk (payment system)
- Vending machine



# Made to order





# AI

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- Light weight packaging
- GPS
- Deep learning
- Taking a Photograph



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**[andrew@bethesdasc.com](mailto:andrew@bethesdasc.com)**  
**Cell:0930516893**