



華北大藥股份有限公司
Bethesda Scientific Corp.

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

Raw Material reduction :
best use

Accurate release :
paradigm shift

Sustainable business
model : our responsibility

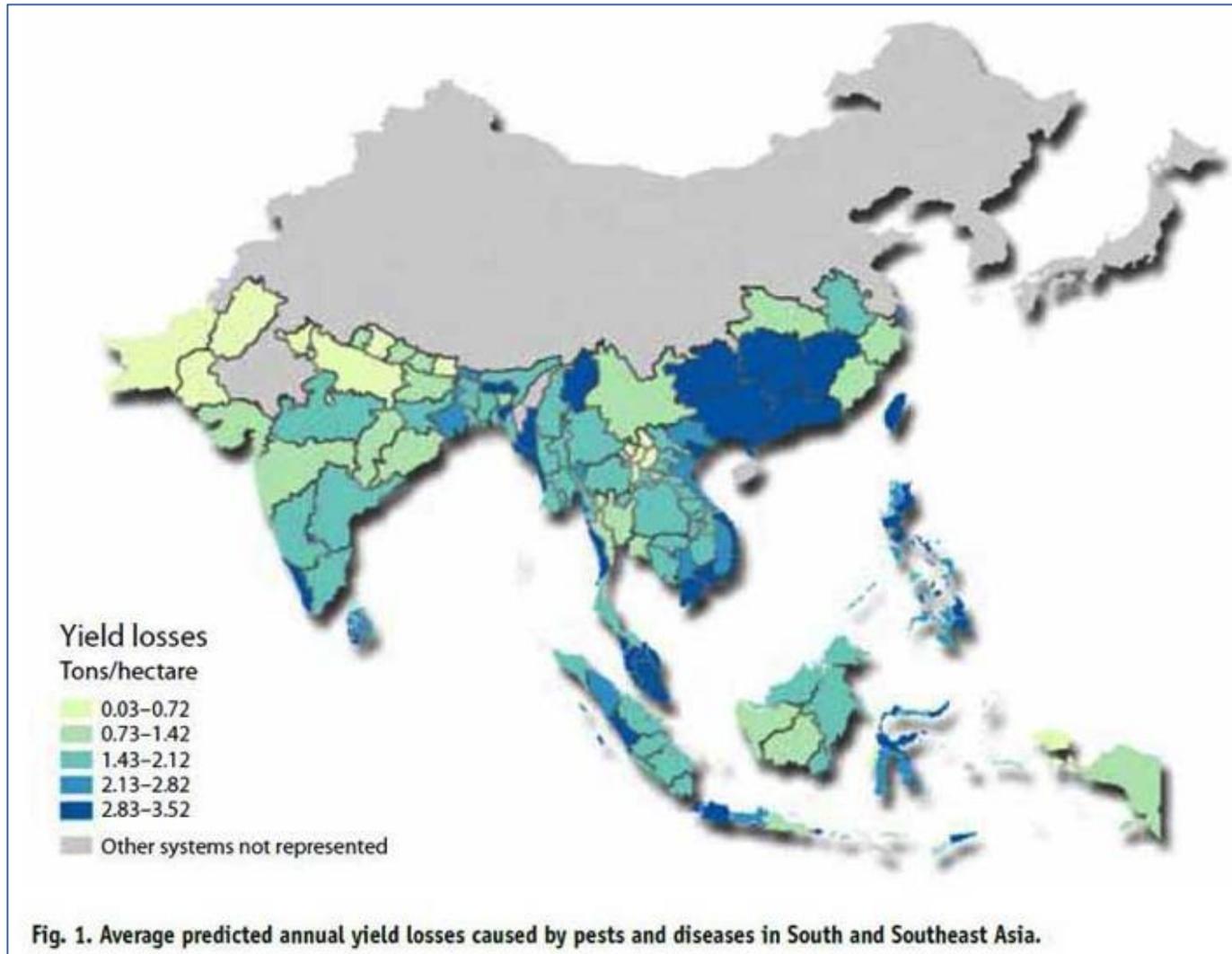
Lightweight features :
aiming global market

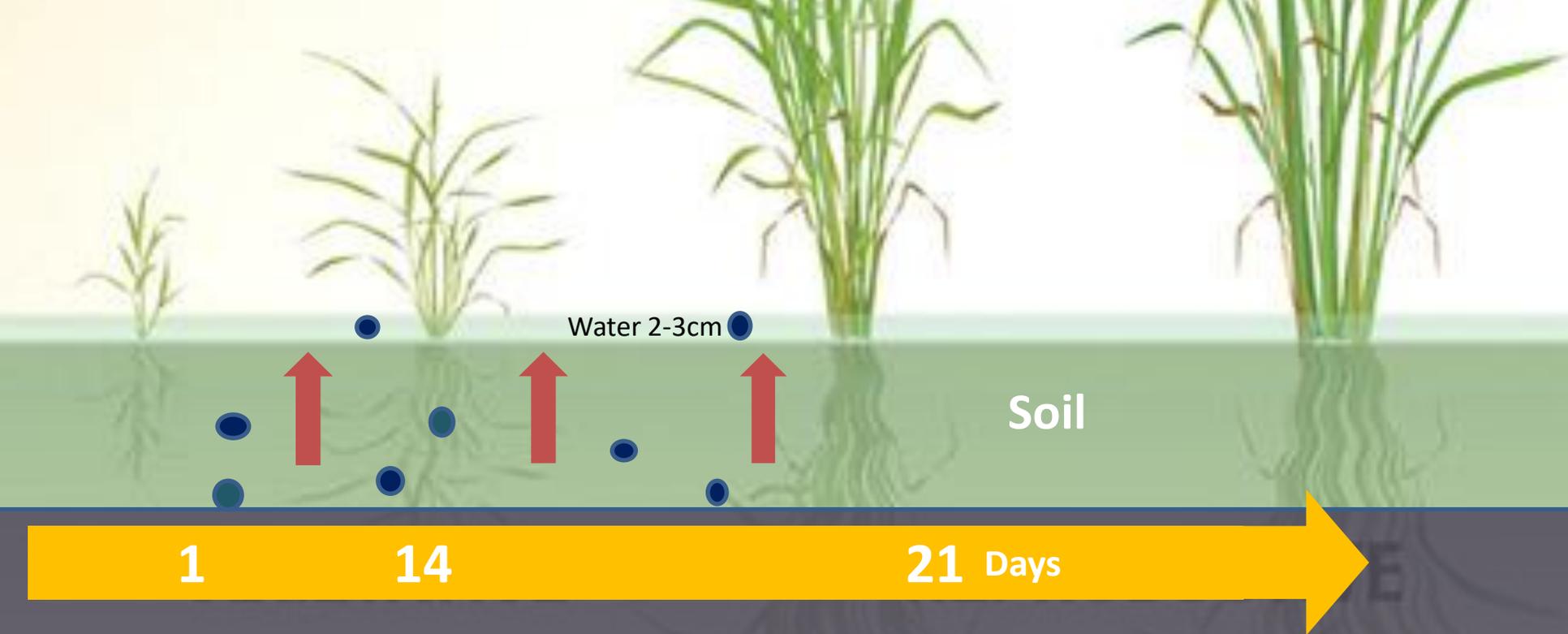
Machine spreading :
saving time and labor

Global Threats

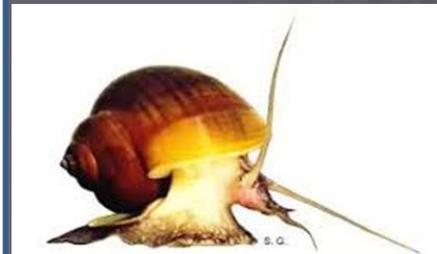


88% rice seedling under attack





- 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
Slim pack 30 kg / ha V.S. 500kg / ha SS	30kg 	5	500kg	3
Effectiveness average rate in 8 days S	95% 	70%	65%	65%

Source: IRRI, NCHU

Our Solution's Benefits:

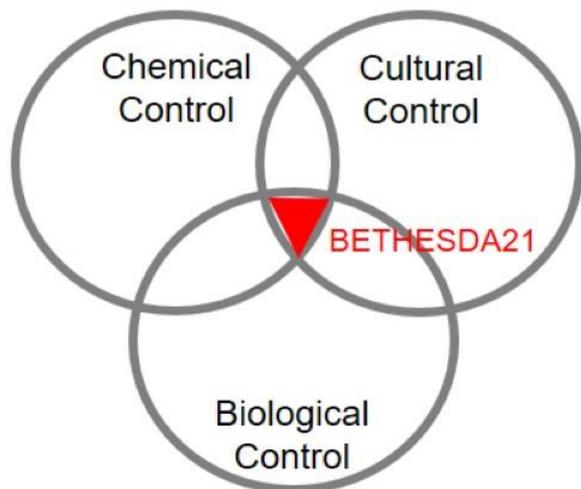
Increase productivity 20-50 %

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

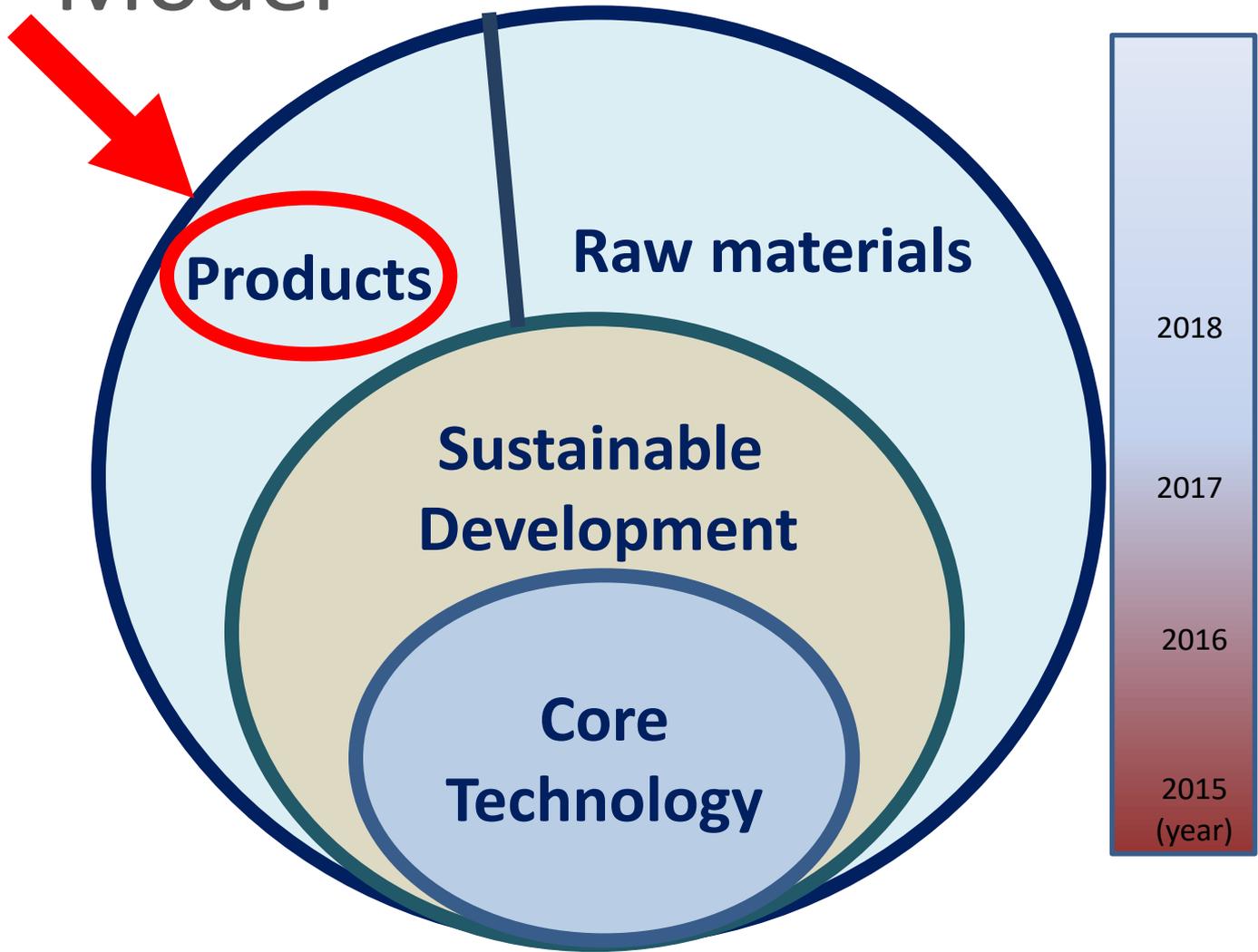
BETHESDA21 is compatible with chemical, cultural and biological controls.

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

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

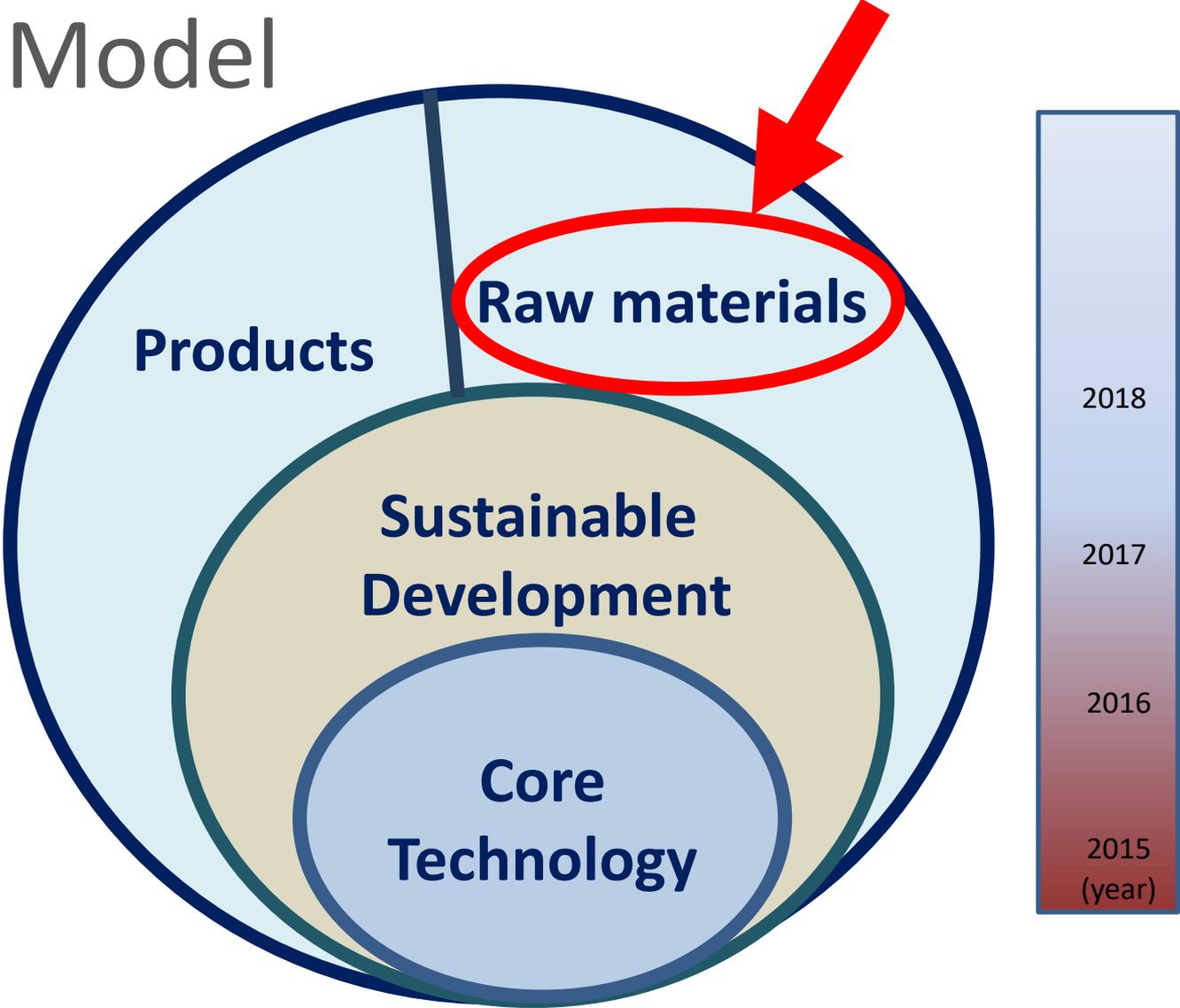
每分地每次施藥量:

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

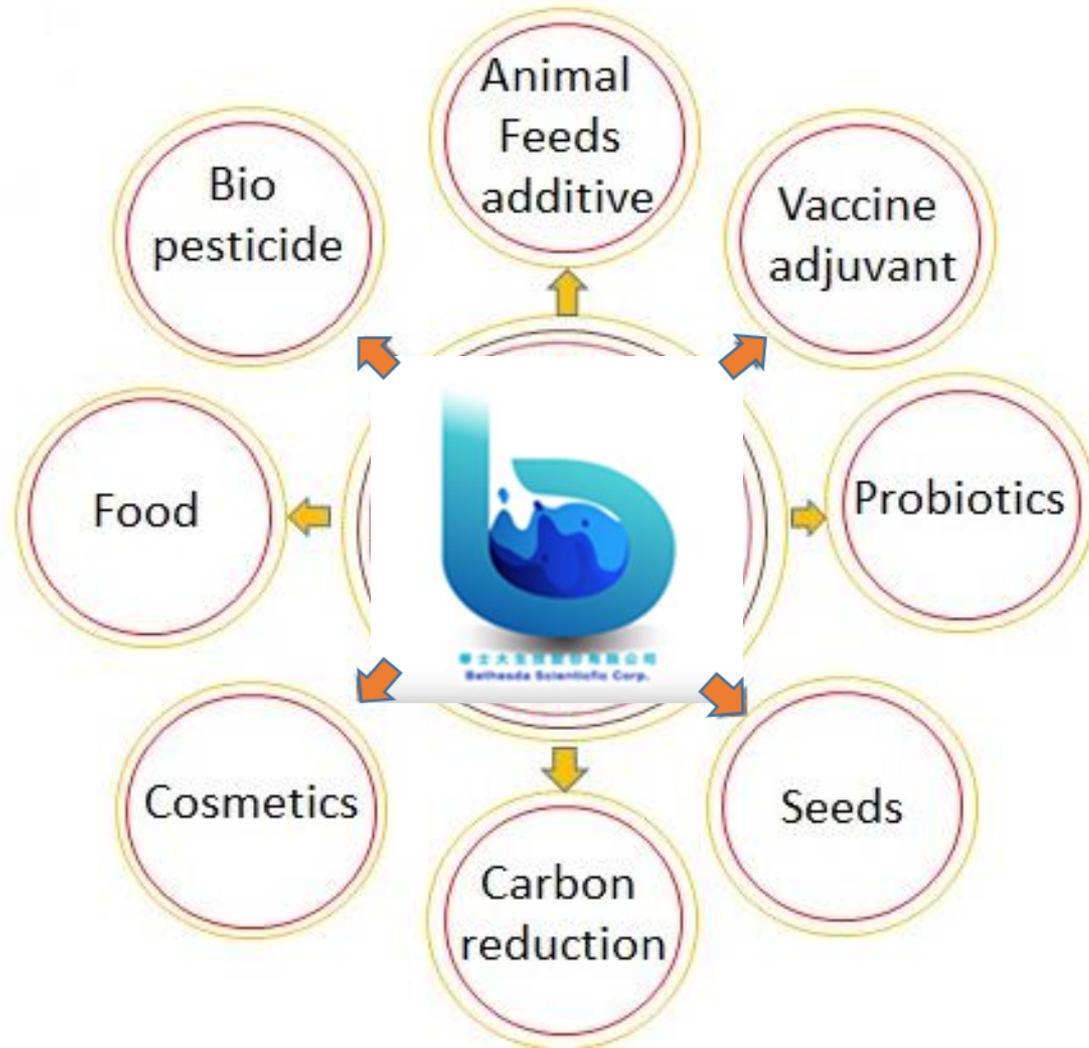




Semi Raw Materials

Asset-light Business Model

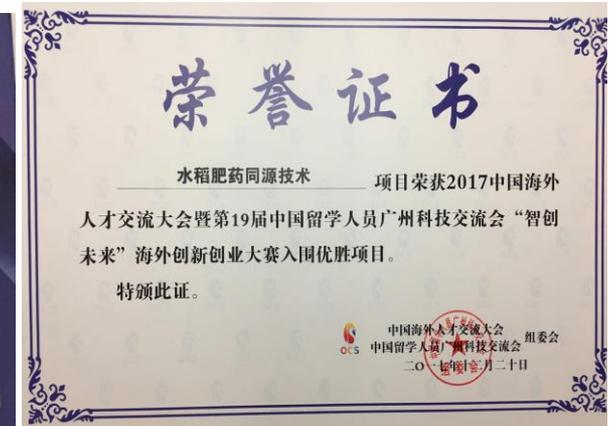
Wide ranges of end-market applications, leveraging our asset-light micro encapsulation platform for 4.0 ERA



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



Arrears



How to order?

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



Made to order





AI

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



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