



***Inno Ensemble
Company Limited***

From Waste-To-Functional Materials

Agenda

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3. Industry & Our Technology
4. Solution and Opportunity
5. Business Model – Who are we?
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Executive Summary

1. We aim to develop our technology for fiber and fabric from the waste.
2. We are a group of fruitful experts including scientists, fiber & fabric professionals, tech entrepreneurs and financial analyst with a combined experience of 50 years.
3. We have the Know-How in fibre fabrication and its application in the personal and skincare industries.
4. Our niche technology focuses on “waste-to-functional material” philosophy.
5. We have a track record in receiving financial supports from internal fund of HKUST, as well as Innovation Tech Fund (ITF) from the Government, respectively.
6. As of today, we formulate the business model to turn this Know-how to profit, so we decide to form a fully-owned company ***Inno Ensemble*** with a self production line in APAC Region.
7. We currently seek for investment to support our prototype development and product commercialization.

Our Concept



- ▶ Advances in science and technology has greatly changed the world in recent years.
- ▶ We are specialized in waste reduction, which is one of the decarbonization technologies for achieving the goal of carbon neutrality by 2050.
- ▶ We are professional in fabrication of green products/materials from the biomass/waste valorization.
- ▶ We can provide *technical solutions* to treat household, business, and industrial wastes for profit.

Industry & our Technology

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Government Policy

LINEAR ECONOMY



RECYCLING ECONOMY



CIRCULAR ECONOMY





Project Background

- ▶ Main residue in the peanut industry
 - ~11 million tons peanut shell waste per year occupy 25% to 30% of the total weight of peanuts
- ▶ Lignocellulose structure; the chemical compositions of peanut shells are:
 - cellulose (~ 38 wt.%)
 - hemicellulose (~ 28 wt.%)
 - lignin (~ 21 wt.%)

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Solution & Opportunity

Target Application – disposable beauty mask



- ▶ Global facial sheet mask market size reached US\$2.1 Bn in 2018.
- ▶ Estimated market size grows to US\$2.9 Bn by 2026 with growth rate (CAGR) of 3.9%.
- ▶ Over 50% sales revenue was generated in APAC.
- ▶ Current materials are cotton, viscose, lyocell, polyester, microfiber, cupro fiber etc.
- ▶ Estimated volume of fiber / fabric reached to 25-30K tons in 2021.

Why beauty mask?

- ▶ Growing market particularly in APAC. Sales revenue keeps moving during pandemic.
- ▶ Fast changing product in China which needs new element time by time.
- ▶ Choice of fiber / substrate in beauty mask is limited.
- ▶ Considered a high margin product among FMCG.
- ▶ Asian brand begins to pay attention to carbon neutrality concept, e.g. manning beauty mask.
- ▶ Home (soil) composite is viable for 100% cellulosic mask.





Our Business Model

Mission statement

Our Vision

To become the most innovative, profitable environmental technology company in the world within 20 years

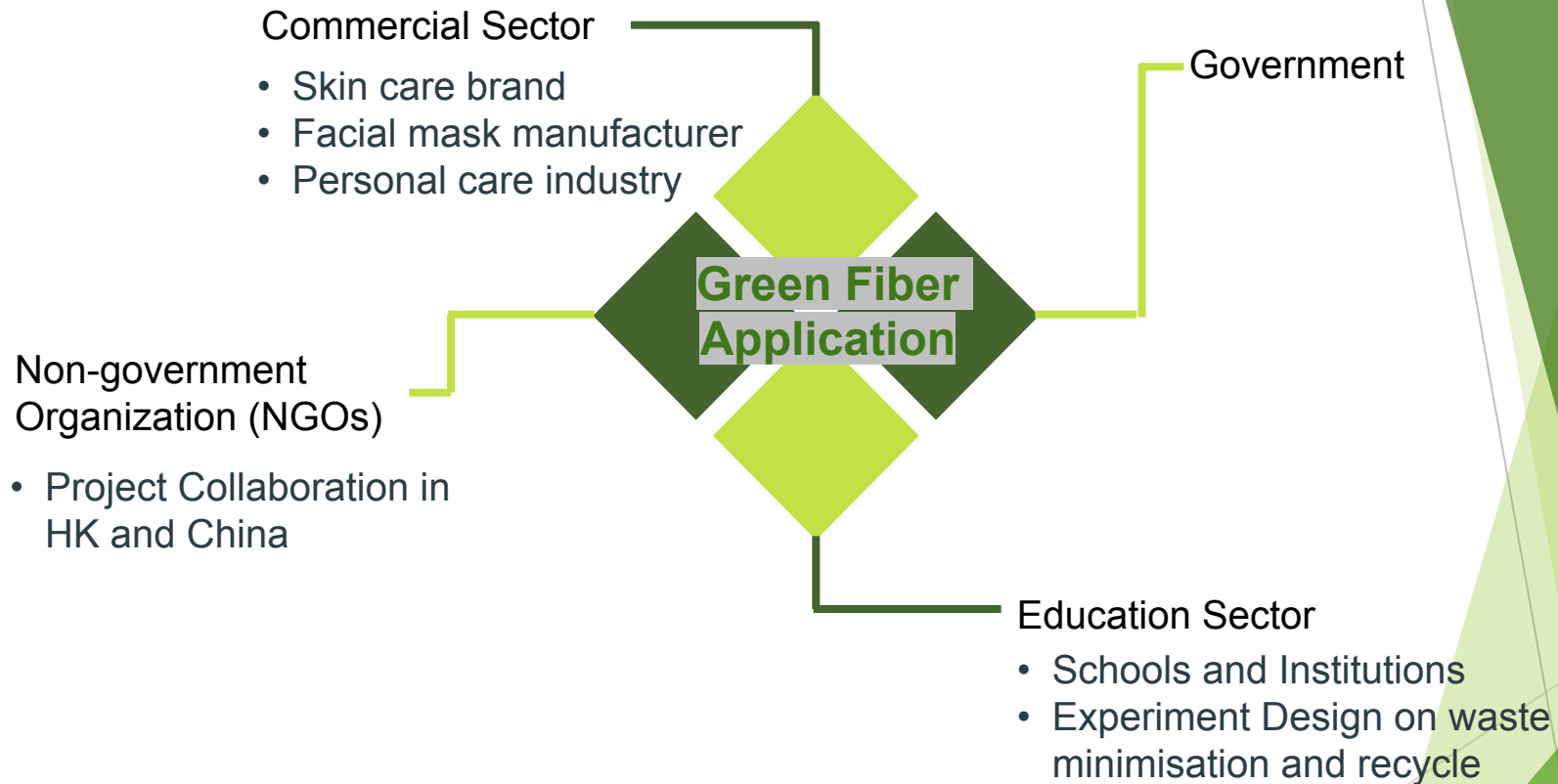
Our Mission

To provide the most advanced environmental friendly solutions to improve human life quality

Our Value

Innovative, Professional, Environmental Conservation

Our Business Model



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Our Strategy and Timeline

Our Unique Strategy



Integrated supply chain



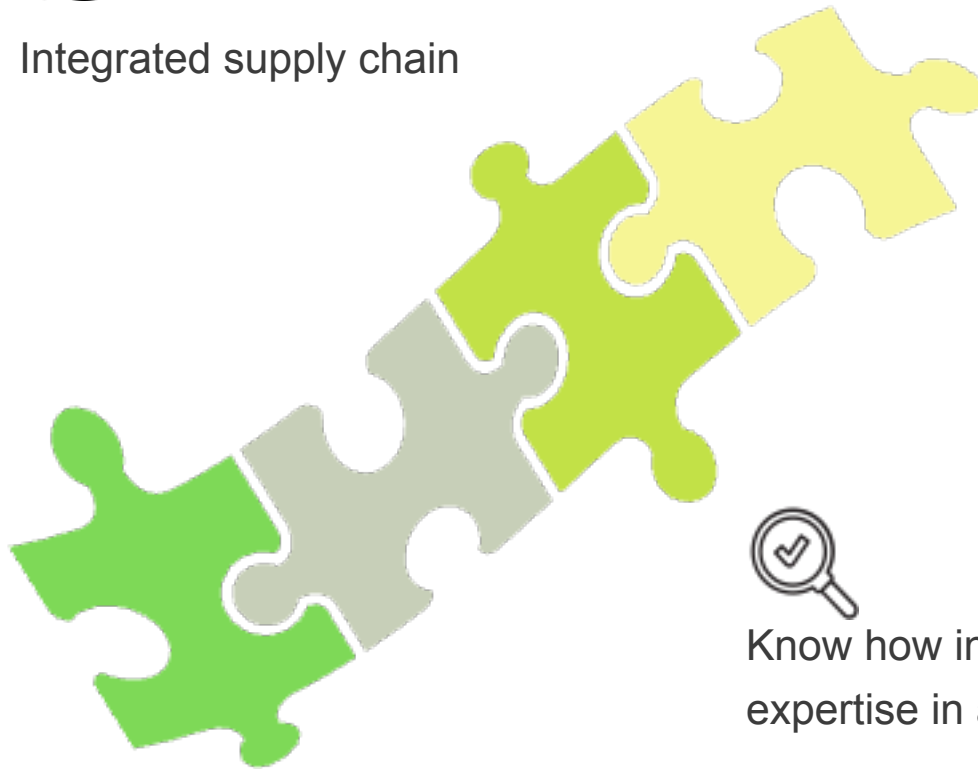
Build our own
brand



Secure raw
materials sourcing



Know how in research &
expertise in application





Thank you!

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