


Annex

HKUST-Sino One Million Dollar Entrepreneurship Competition 2023 – Awardee list

Awardee	Introduction	Technical Advantage	Photo
<p>Allegrow</p> <p>Platinum Award GF Innovation Award</p>	<p>Immune cell therapy places new, healthy cells into the body to eliminate cancer cells which its regenerative features make it an effective treatment to cancer. However, immune cell therapy is time consuming, costly and available only in limited quantities. Allegrow's new technology can optimize the production process of immune cells and reduce production costs by up to 48% compared to current methods, while saving up to 33% (per product) of production time. Their tech will greatly improve production efficiency, reduce patient waiting time and medical expenses for future treatment, shorten the R&D period of immune cell therapy, and make cell therapy more accessible to the public.</p> <p>Allegrow's cell cultivation technology has already won many accolades and funding. The team is currently collaborating with biotech companies and research institutions to test the new technology, and the product is expected to be launched in 2024.</p>	<ul style="list-style-type: none"> • Reduced cost • Reduced production time • Reduced wait times and medical fees • Popularisation of cell therapy 	

not only powder

Gold Award
Sustainability Impact
Award

Hong Kong produces over 3,000 tons of food waste every day, and a large proportion of it is 'ugly food' that is of good quality but unappealing in appearance. An estimated 8% of global greenhouse gas emissions come from food waste. To tackle this issue, they use a freeze-drying method to upcycle 'ugly fruits' collected from fruit merchants and stores into dried fruits or powder, which does not only preserve at least 97% of the nutritional values of fruits but also extends their shelf life at least a year. In addition to single-flavored powder, they also offer different powder combinations that can be easily mixed with water or milk to create highly nutritious fruit smoothies.

Not only powder utilizes a self-developed system that integrates supply management, data analysis, and merchant sales platforms. The company has been in operation for six months, and apart from selling online and at market stalls, they have also collaborated with many companies, selling over 2,700 products and reducing over 1,200 kilograms of carbon emissions. Not only powder hopes to join hands with hotels to collect ugly fruits and consignment products.

- Sustainable
- Extend fruit shelf life and preserve nutritional value
- Reduce carbon emission
- Reduce food waste



Fleming MedLab


Silver Award

Strokes are common in Hong Kong. According to statistics, around 80% of stroke patients require special care daily, while over half struggle with mobility. Yet, rehabilitation equipment is expensive and not designed specifically for stroke patients. Fleming MedLab has developed a lightweight and comfortable lower limb rehabilitation wearable for stroke patients. The wearable utilizes motion sensors and neuromuscular electromyography detectors to analyze the user's intention to walk and assist them in completing the walking motion. If stroke patients can repeatedly train their limb movements with the device, their limb muscles can be stimulated and trained. The wearable can also help rebuild neuroplasticity and reorganize the motor cortex in the brain, assisting patients in regaining control of their limb movements and returning to normal life as soon as possible.

The team was established in January 2022 and launched the first prototype in the middle of last year. They have submitted three patent applications and won numerous accolades. They plan to collaborate with local medical institutions this year for the first phase of clinical trials and sell

- Assist stroke patients to consistently train motor skills
- Working on the machine-learning algorithms to trace rehabilitation progress records



	<p>the device to local rehabilitation centers and clinics. They are also researching into machine learning algorithms, hoping to provide rehabilitation progress records for doctors, physiotherapists, and patient families for patient treatment plans, analysis, scheduling, and related matters.</p>		
<p>Daoad Sustainability Impact Award</p>	<p>The global annual rice husk production is 190 million tonnes per year, of which 30% comes from China. With aims to create a sustainable economy, reduce carbon emissions, promote sustainability and mitigate global warming, Daoad is repurposing rice husks into bioplastic, polymer materials, paper and rammed earth that can be used to make quality and water-and bacteria-proof goods like earrings, aromatherapy candles, toy blocks and more.</p> <p>Unlike its competitors, Daoad’s materials can be tailored into paper and bioplastic materials that are 100% biodegradable, reused and mass produced. Daoad is expected to acquire patent and undergo its 3rd trial; it’s already in talks with 5 NGOs and schools to host workshops.</p>	<ul style="list-style-type: none"> • Promote sustainable economy and reduce carbon emissions • Paper and bioplastic materials are 100% biodegradable • Four patent pending technology 	

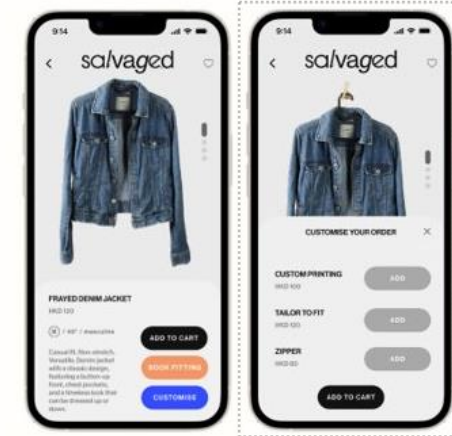
Salvaged Limited

Sustainability Impact Award HKUST Student Team Award

According to Salvaged Limited, 100 billion items of clothing are produced every year, of which less than 1% is recycled. Textiles account for 10% of total global GHG emissions. Through Hybrid SAAS platform, Salvaged Limited hopes to digitize the second-hand market by linking thrift store to consumers online. The one-stop shop includes automated labelling, sizing and tagging for easy and scalable upload. Products are also tracked through software and lean storage solutions. Personalised customer service and free returns are offered.

Here, user experience is a priority and is ensured through thorough product description, personalised recommendations as well as flexible delivery and payment options. These features, plus excellent after-sales tracking and product data automation are its advantages against its competitors. The platform is being further developed.

- Reduce GHG emissions
- Offers resale clothing a second life
- First in Combining E-commerce and Automation for Fashion Resale



Elevatefoods

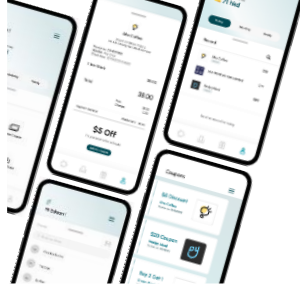

Elevator Pitch Award
HKUST Student Team
Award

Cooking is time-consuming; and consistency in flavours, textures and presentation may be a hard feat. Cooking in high temperatures may even destroy nutrients. Elevatefoods realises the potential in 3D food printing in the health and wellness industry and has come up with a 3D food printer that uses Ultrafast Nano Heater, Selective Spot Cooking, AI technology, data from users' nutrition requirements, health statistics and more to tailor delicious but ultra-healthy recipes. Elevatefoods can make functional foods, fortified snacks, baked goods, carbohydrates, proteins, vegetables, gels and more.

The 3D food printer also targets the health and wellness market by creating meals for patients with swallowing disorders and thereby reducing the stress and manpower in elderly homes and hospitals. The technology also reduces food surplus in a mission to save the planet. Elevatefoods is now working with medical institutions, nutritionists, speech therapists, culinary schools, innovative restaurants and food platforms.

- Tailor delicious but ultra-healthy recipes with AI technology
- Reduce food surplus



<p>Mydaan</p> <p>HKUST Student Team Award</p>	<p>According to Mydaan, 65% of paper receipts are disposed albeit containing useful information for both the customer and the business. Annually, 3 million trees and 9 billion gallons of water are dedicated to producing receipts, which are non-recyclable and most likely contain endocrine-disrupting chemicals like BPS and BPA. To address these problems, Mydaan’s all-in-one seamless e-receipt platform hopes to facilitate financial records processes while advocating for sustainability in a waste-free, effort-free and worry-free approach.</p> <p>Aside from record keeping, all subsequent discounts and coupons related to the purchase will also be saved on the consumer end. On the merchant end, on the other hand, the data from the receipt can be used for performance analysis, customer insights, market trends and more for further business planning. Creating a close loop that allows the utilisation of data while keeping the interest of both parties.</p>	<ul style="list-style-type: none"> • Sustainable • E-receipt used for performance analysis, customer insights, market trends and more for further business planning 	 <p>  Mydaan <small>Free some papers, Free some minds</small> </p> <p>The revolutionary e-receipt solution</p>
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