

NUSGRIP

GRADUATE RESEARCH INNOVATION PROGRAMME



NUS GRIP **LIFT-OFF DAY**

NUS Deep Tech
Start-Ups Showcase

TEAM FACTSHEETS

A Flagship Innovation Programme by:



NUS
National University
of Singapore

Industry Liaison
Office

NUSGRIP

GRADUATE RESEARCH INNOVATION PROGRAMME

The flagship innovation programme by **NUS Industry Liaison Office (ILO)** enabling NUS postgraduate students and researchers to develop commercially viable and investible deep tech start-ups.

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Make Sweet Healthier

A patent-pending foodtech platform to transform sweet indulgence into healthy and diabetic-friendly choices

PROBLEM

Type 2 diabetes is a global epidemic

1 in 9 Singaporean has diabetes now

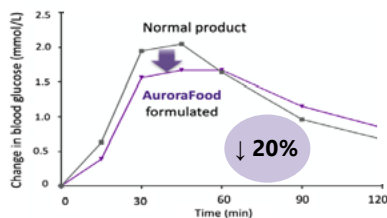
By 2035 **1 in 4** PREDIABETES
1 in 5 DIABETES

SUGAR SPIKE generated from sugary food



SOLUTION

World's 1st Baking Mix
with **a slower sugar release**
yet **without**
any sugar replacers



Specially formulated with natural plant extract from cereals and berries

BUSINESS MODEL

B2B
(2 LOI)

Baking mix manufacturers

Luxury hotel café

Premium bakery shops

Café chains

GROWTH STRATEGY

Niche Market

Premium and diabetic-friendly baking mix

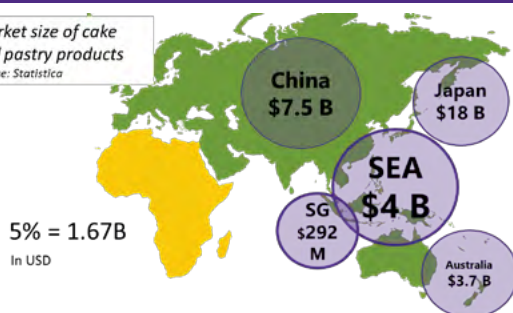
Mainstream Market

Healthier sweet indulgence

From Product-based to Market-based

MARKET POTENTIAL

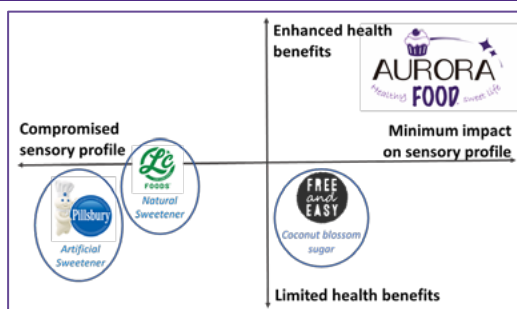
Market size of cake and pastry products
Source: Statista



MILESTONES

	2019	2020	2021	2022	2023	2024
Market expansion		1 st SG customer	APEC market	China market Japan market		AU market
Product Development		Launch of 1 st product		Expand product range		
Technology and Patent	1 st Patent 1 st Secret ingredient				2 nd Patent 2 nd Secret ingredient	
Capacity (ton)		5	13	100	500	1000

COMPETITIVE ADVANTAGE

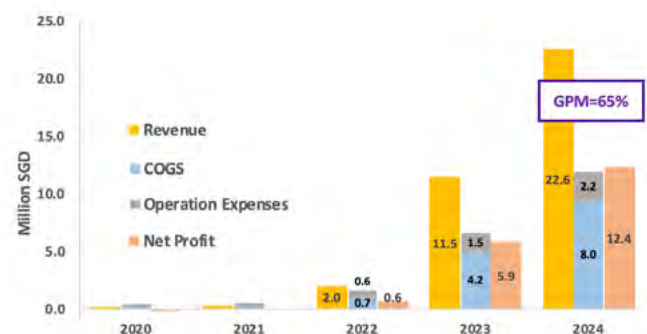


Slower sugar release



Same great taste

FINANCIAL PROJECTION



Dr. GAO Jing
CEO & Co-founder
PhD in Food Science, NUS



JIN Xiaoxuan
CTO & Co-founder
PhD candidate in Food Science, NUS



Prof. ZHOU Weibiao
Scientific advisor
Head of Food Science & Technology, NUS



Adriell HO
Commercial Champion
Co-founders of several start-ups



David SHER
Venture Manager
Rich experience in venture management



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Biochar Technology Innovation Company for Infrastructure Applications

BiocharCorp's pioneering innovation and business involve manufacturing of engineered biochar for application as admixture in structural and non-structural grade cementitious building materials. Our mission is production of high quality biochar-based construction materials with the vision to contribute to zero-waste through biochar technology

What are we solving?

- **Water seepage** : Addition of our specially engineered biochar reduce water seepage in buildings by 40%
- **Zero-waste**: Our technology use locally generated biomass waste to produce engineered biochar
- **Higher construction speed**: Biochar-cement accelerates early strength development by up to 20% , thereby shortening initial curing time
- **Reduced demand of cement/sand**

Competitive Advantage

- Pioneer in applying biochar (IP) for building/ infrastructure materials
- Expertise in preparing and modifying biochar materials for improved performance of concrete materials
- Sustainable solution : waste → building materials

Intellectual Property

WO2018203829A1 : Sustainable construction material and method of preparation and use thereof (Patent filing in USA, Saudi and Singapore)

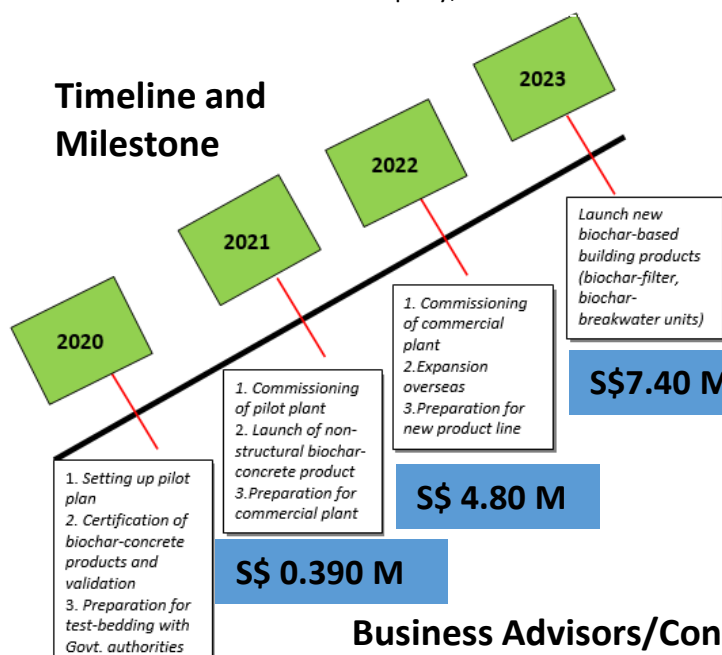
Achievements

- Three letters of intent from building and infrastructure companies in India, Indonesia and USA
- 15 high quality journal articles in top-tier venues
- News coverage by Channel News Asia, The Straits Times and Lianhe Zhaobao

Partners

- KORE Infrastructure, USA
- PT. Indoraya Makmur Semesta, Indonesia
- Kanchan Construction Company, India

Timeline and Milestone

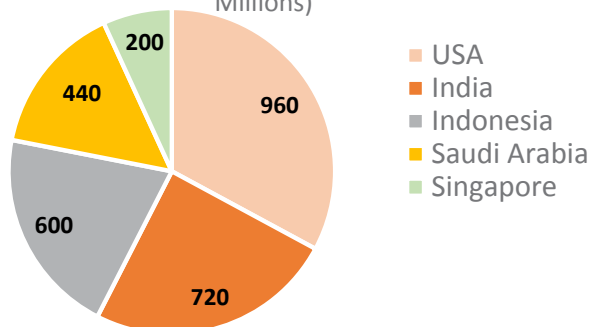


Market Potential

Target Market:

- Building and construction materials sector
- Waste recycling companies
- Infrastructure constructions sector

Estimated biochar-cement market size (\$\$, 'Millions)

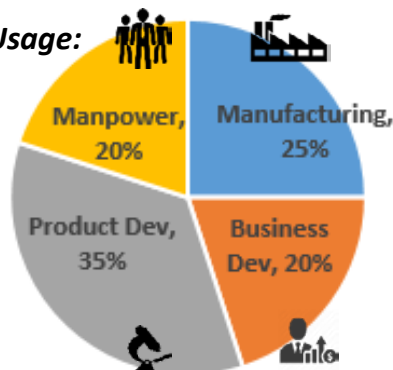


Funding & Financing

Funding Stage:

Pre-seed/Seed/ Series A \$S\$ 500 K (by Q2 of 2020)
Series A \$S\$ 2 M (by Q1 of 2021)

Fund Usage:



Team Profile

Dr. Souradeep Gupta (Research and Technical lead) PhD. (NUS, Singapore)
5 years R&D experience in sustainable concrete technology. Authored 16 high quality articles on biochar –cement technology



Ms. Kristina Razanskaite (Marketing lead)
B.Sc in Economics, Lithuanian University of Agriculture , 5 years experience as independent environmental consultant



Prof. Kua Harn Wei (Advisory)
PhD. (MIT, USA).
15 years experience in building materials and sustainability. 60 local and international awards.



Business Advisors/Consultants

Mr. Leong Siew Why,
Business advisor
Company: P99 Pte. Ltd



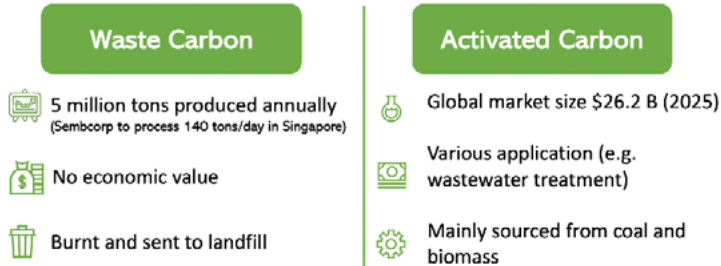
Mr. Jack So
Venture Manager
Company: NUS, Singapore





Carbon for A Better Environment

Problem Statement



Solution



Competitive Advantage



Our Product



Product Specification (ASTM Standard)	
Particle size	0.1-1.5 um
Iodine number	600-650 mg/g
Surface area	670-710 m ² /g
Pour density	0.30-0.34 g/cm ³
Conductivity	10-11 S/cm

Patent ID: 2019-377

Achievements

Puyang Shengyuan Energy Technology Co., Ltd
purchase volume: 1000 tons/year

Henan Zhuode Co., Ltd
purchase volume: 500 tons/year

Partners

Strategic Partners

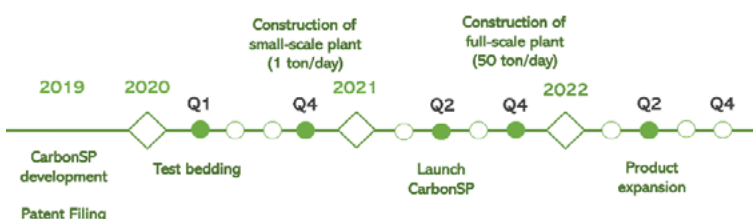


Launch costumers



Henan Zhuode Co., Ltd

Timeline & Milestones



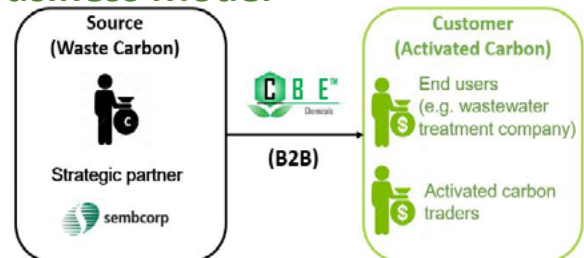
Converting waste carbon to activated carbon

3 Research Link, Singapore 117602. Tel: +65 90841445. Email: cheyaoz@nus.edu.sg

Market Potential (2025)

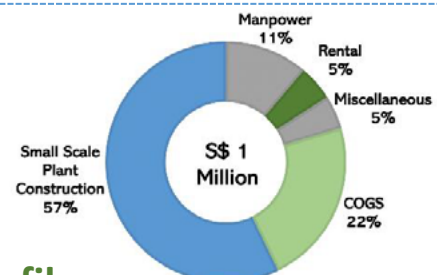


Business Model



Funding & Financing

Funding Stage:	Seed
Raised Till date:	Jul 2021
Funding Target:	\$1 million
Closing Date:	Mar 2020



Team Profile



Yao Zhiyi. CEO/Founder. Research Fellow ChBE NUS

- 6 years research experience in chemical process design and optimization.
- 2 years experience working with strategic partner (Sembcorp-NUS corporate lab)
- Strong network in China's activated market industry



Babu C.M. CTO/Founder. Research Fellow ChBE NUS

- 7 years research experience in inorganic material synthesis for environmental applications, especially carbon for water treatment



Alvin Salim. COO/Founder. NUS MBA

- 3 years experience working as product manager
- MBA specializes in strategy

Directors, Advisors/Consultants



Leong Siew Why
Commercial Champion
99 Pte Ltd



Jack So
Venture Manager
NUS



Shiridi Sai Prasanna
Technology Manager
NUS



Fact Sheet

Green Battery Materials Solution

Bringing affordable and clean energy through eco-friendly battery materials



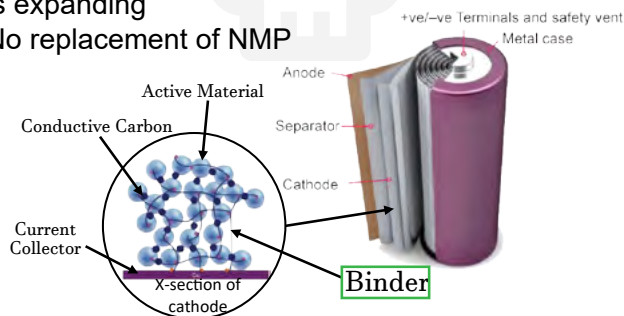
✉ ecobinder@gmail.com
☎ +65 92317264

Current Problem

Challenges in Lithium-Ion Battery Manufacturing:

Toxic NMP solvent is used

- Health hazard to workers
- Incur high costs in control measures, waste recovery and insurance premium
- Strict regulation in use of NMP in Europe and trend is expanding
- No replacement of NMP



Our Solution: Ecobinder™

- Non-toxic -> Conform to regulations
- No addition but one less step to existing process
-> 25% cost saving in battery production
- Better performance by 50%
-> comparative advantage

Market Size

Total Available Market (TAM):

Lithium-ion Battery -> USD 100B

Serviceable Available Market (SAM):

Battery Binder -> USD 1B

Electrolyte (future) -> USD 10B

Serviceable Obtainable Market (SOM):

10% of SAM -> USD 100 M

source: statista

Revenue Model

Direct Sales (B2B)

Intellectual Property

Battery Electrode Binder

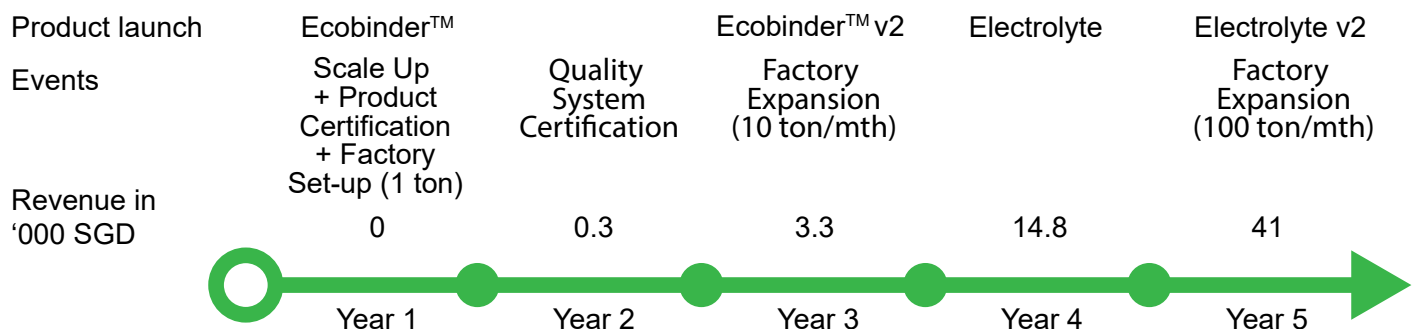
- US 2019/0229336 -

High degree of freedom to operate

Achievements

2 LOIs from launching customers
+ 1 LOI from potential investors

5-years Roadmap



Team



Christopher QUEK (Acting CEO)

Ph.D. Candidate

2 years of research experience on battery gel polymer electrolyte



Abhinav TRIPATHI (Acting CTO)

Ph.D. Candidate

4 years of research experience on battery electrode.



DU Kang (Acting COO)

Ph.D. Candidate

4 years of research experience on battery electrolyte.



Palani BALAYA (Advisor)

Ph.D.

Assoc. Prof. in NUS. 12 years of research experience on batteries. Holds more than 20 patents



David SHER (Venture Manager)

CEO and co-founder of several start-ups
More than 25 years experience in business



Simons LIEU (Commercial Champion)

CEO and director for start-ups and business ventures
More than 30 years experience in business

What is an X-ray Scintillator?

A material that lights up when strike by X-ray radiation.

The Problems

Process is extremely slow and costly!



Not suitable for advance x-ray systems!



High energy
X-Ray required



Slow
Long decay time of **1000ns**



Material is **brittle**



Our Solutions

Cesium Lead Bromide Nanocrystals

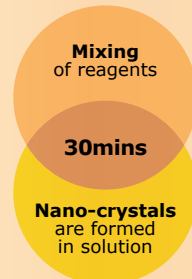


Efficient
manufacturing
process

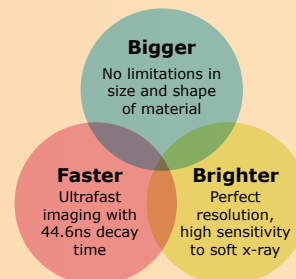


High
Performance

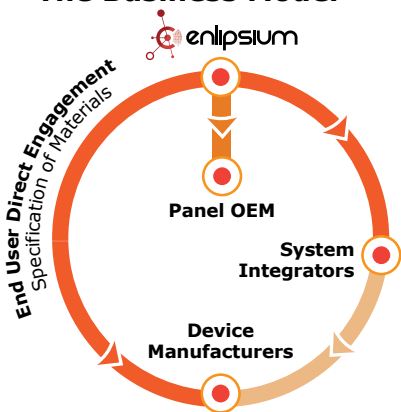
How Enlipsium
material are made?



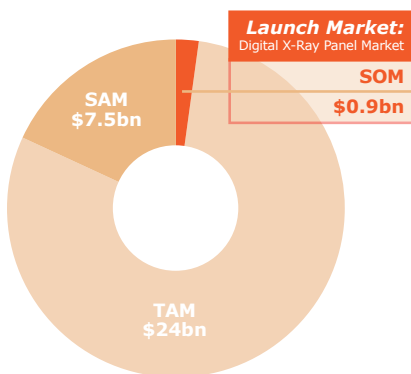
With Enlipsium, X-ray
detectors can be made



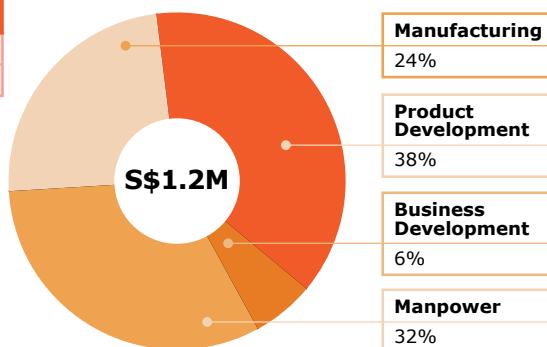
The Business Model



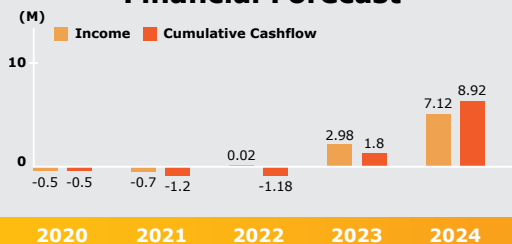
The Market



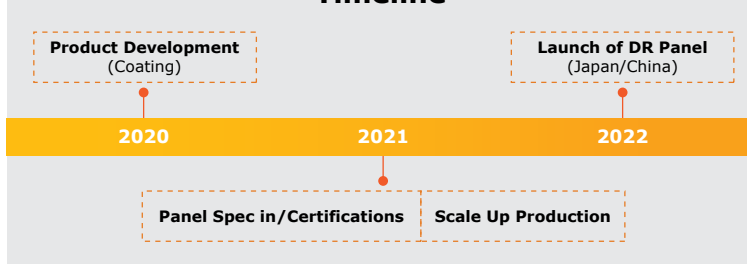
Funding Requirement



Financial Forecast



Timeline



Tommy Tham
Founder
Business Devt
NOC Alumni



Dr Li Zhichun
Product Devt
Researcher, NUS



Yzhar Perry
Snr Manager
Venture Manager



Liu Xiaogang
Tech Advisor
Prof, NUS Chemistry



Empower Material Scientists into Frontier Research

Save time & better focus on research; Smart system suggests measuring parameters

Problem

Challenges for nanomaterial researchers:

- * Lack of surface doping and passivation facility
- * Current characterization systems only focus on measurements

Current method by building one's own system cost > 2 years. The home-built systems lack standardizations & measurement accuracy, limiting the research of nanomaterials.

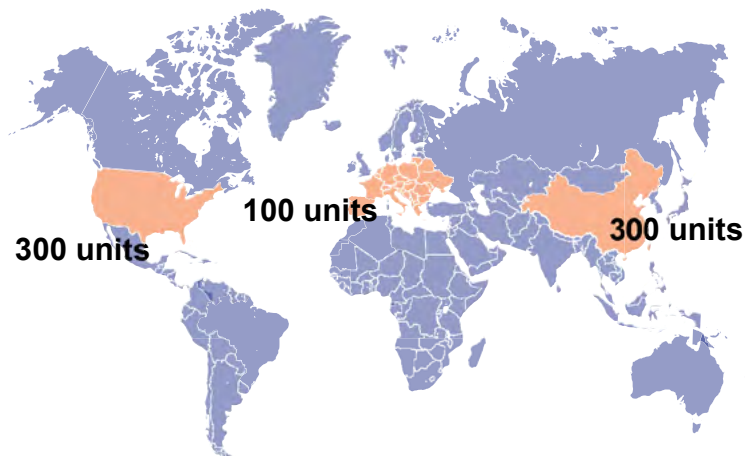
Solution

Our FR1000 system equips customers with the ability to conduct in-situ electrical, optical, and optoelectrical measurements on nanoscale semiconductor devices with integrated multifunction, high accuracy, smart software & convenient operation.

Can also be used to realize in-situ surface doping and passivation for air-sensitive material, gas sensor evaluation and device stability evaluation.

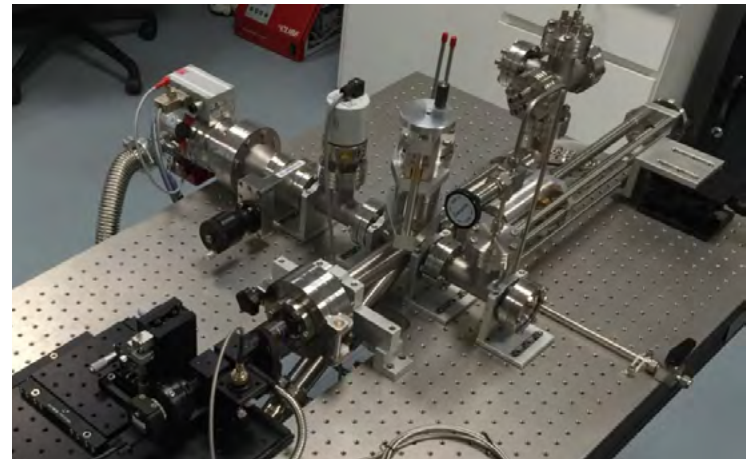
Market

Unit price: 500,000 SGD

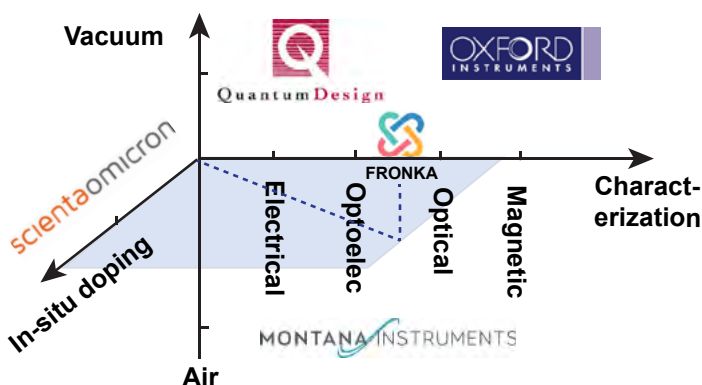


Product FR1000™ In-situ Nano Semiconductor Characterization System

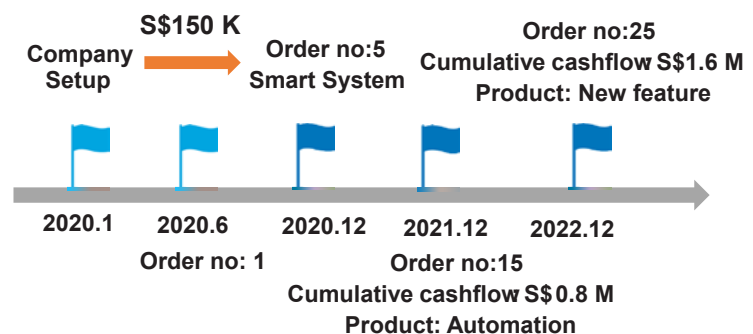
Patent: PCT/WO 2019/164454 A1



Competitive Analysis



Company Roadmap



Team



Rui Guo
Founder, PhD
4 years exp in
2D material research



Wei Chen
Technical Advisor, Prof
16 years exp in
organic/2D material research



Nandakumar Chari
Commercial Champion
30 years industry exp



Chung-Pei Ou
Venture Manager
15 years exp in startup

Contact chmgr@nus.edu.sg

+65-8590-2429

3 Research Link #05-01,
i4 Singapore 117602



Problem

20M

Number of Veterinary Orthopedic Surgeries

10%

of the surgeries require revision surgery due to complications

2B

Total revision surgery costs per year

During post-operative recovery,

- Animal body weight and subsequent stress leads to implant complications
- Non-resolving implants lead to surgical site infections (SSIs)

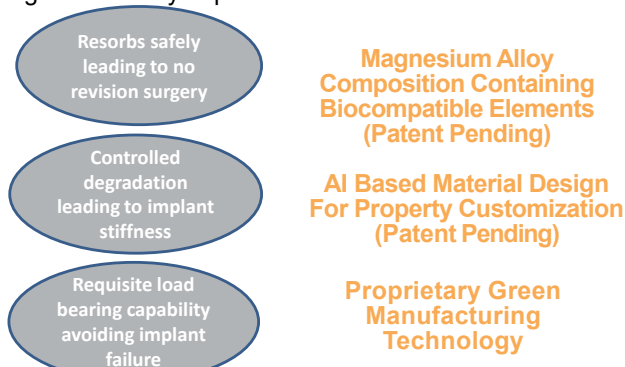
Key Problems



Implant Failure and Associated Surgical Site Infections (SSIs) lead to Revision Surgeries

Solution - OrthoMag

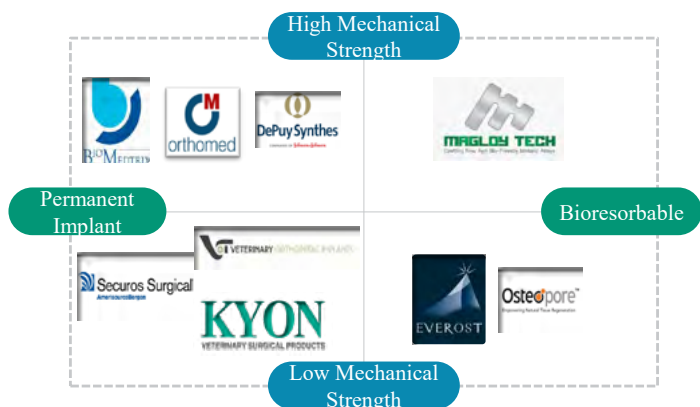
A Magnesium alloy implant that transforms into bone



Key Selling Propositions

- 1.8 g/cm³ is the closest density to bone compared to all metallic implants.
- 3 times stronger than polymers. Comparable with Steel and Titanium.
- 45 GPa is the closest Young's modulus to bone.

Competitive Advantage



- First Mover Advantage
- Lower Manufacturing Costs
- Proprietary Green Manufacturing
- Customized Properties



Vyasaraj Manakari, PhD
Co founder



Gururaj Parande, PhD
Co founder

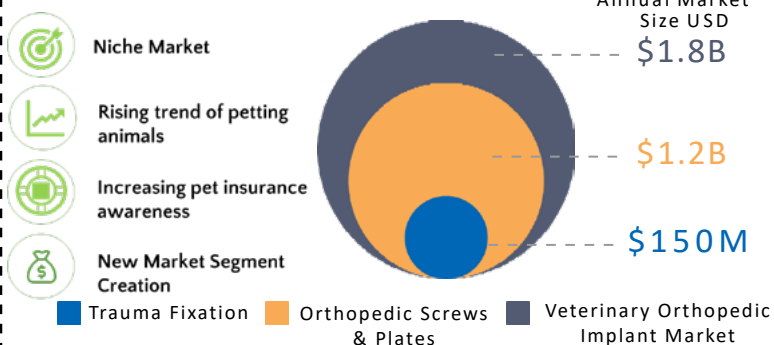


Manoj Gupta, PhD
Co founder

Vision: To alleviate the financial, physical and psychological burden for a patient recovering from a fracture fixation procedure

Market

Within the \$ 1.8 B veterinary orthopedic market, our initial product targets a \$ 150 M opportunity space



Business Model

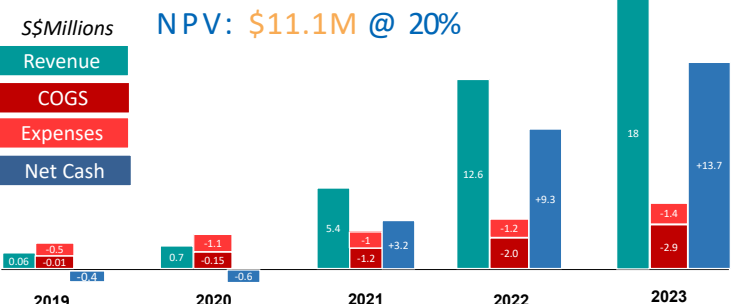
Customers: Orthopedic Implant Manufacturers

Go-to-Market: Veterinary Implant Device Companies

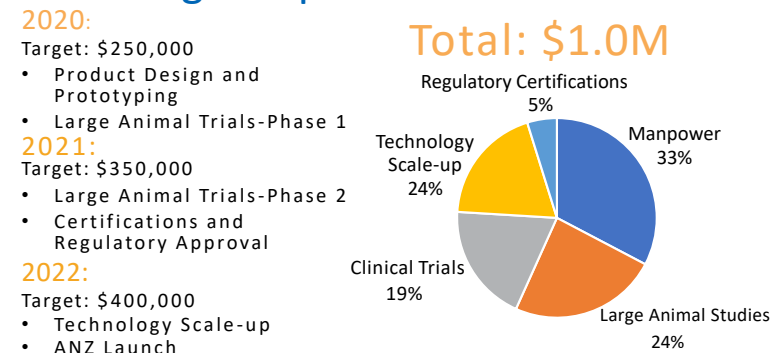
Revenue Streams: Product Sales
Licensing



Financial Forecast



Funding Requirement



Timeline



Partnership



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+65 9611 3557





AI-backed Digital Platform to revolutionize how employers find their best candidates at career fairs. Bringing in the next generation of live recruitment.

Problem Statement

Despite the enduring popularity of job fairs, major **pain points** for employers and jobseekers exist:

- Unable to stand out in a crowd
- limited channel of communication
- Poor digital adoption to streamline work flow

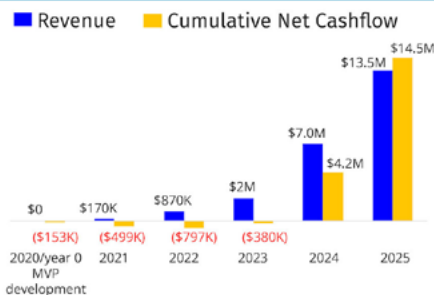
Need a better way to **reduce time** and **cost** to hire!!

Our Mobile Platform Solution

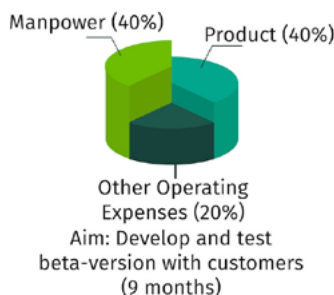


Matchapreneur increases channels of communication during job fairs, enabling both companies and jobseekers to stand out and be discovered and streamlines workflow process by bringing in AI-backed active matching and intelligent automation.

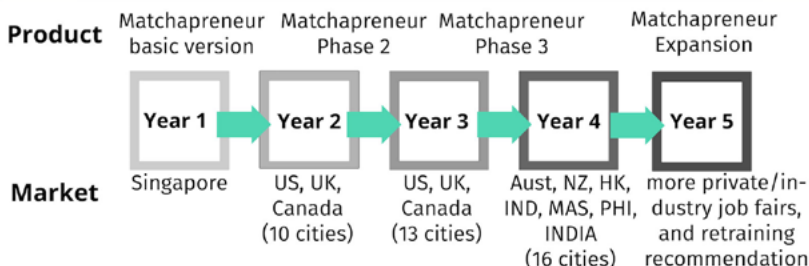
5 year Financial Projection



Initial Fund Usage



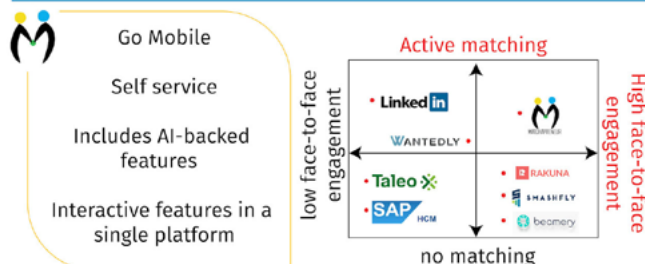
Development Milestones



Market



Competitive Advantage

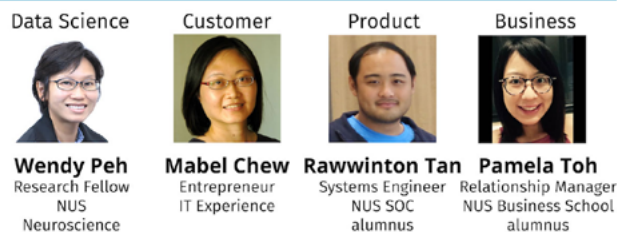


Revenue Model

Package(s) for SAAS to companies



TEAM



Advisor/Consultants



For enquiries, please contact wendy.peh@nus.edu.sg



MOS - Membrane Oil Sep

MOS is a Singapore-based company with a vision to provide clean and safe water for a more sustainable world. Its first product, ZerOil, is an affordable membrane designed specifically for oily wastewater treatment. With this technology, MOS hope to fulfil its mission of delivering superior solutions to the environmental issues posed by oily wastewater.

Problem Statement & Solutions

Problem



- Stringent discharge standard of oily wastewater
- Inefficient traditional wastewater treatment
- Severe oil fouling of common membrane by oil

Solution



- Robust ZerOil membrane specially designed for oily wastewater



Market Potential

Serviceable Obtainable Market:

Membrane for oily wastewater treatment



- Food & Beverage industry
- Oil and gas industry
- Chemical and metal processing industry

Competitive Advantage

- Higher oil treatment efficiency than common membranes
- Higher quality of treated water with >98% oil removal
- Durable and robust material with long life span

Intellectual Property

Synthesized additive



Embedded Membrane



- US patent awarded (US9657126)
- SG patent pending

Achievements

Grant: NUS Technology Acceleration Programme

4 Letter of Intent:



Partners

SmartChem Technology Pte Ltd: Supplier

demem : Supplier

Timeline & Milestones

Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
		MOS as membrane solution provider			
			MOS as membrane system integrator		
				Membrane spinning (production) line	
					Chemical synthesis facilities
					Establish of MOS (Company) & release ZerOil (Product)

Revenue Model

DIRECT SALES

Sales of membrane unit

SYSTEM INTEGRATION

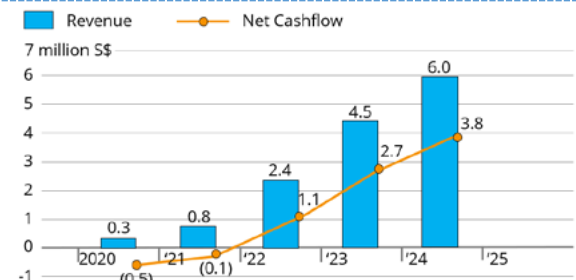
Integration into membrane system

(B2B MODE)

SERVICES

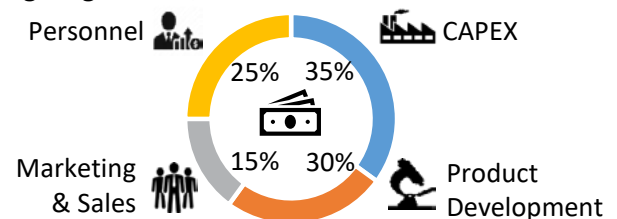
Ancillary revenue from membrane cleaning & replacement

Financial Forecast



Funding Needs & Usage

Funding Target: \$600,000 for 18 months



Team Profile



Kelvin Ling Jiehan
Co-founder
MBA in NUS



YANG Xuan
Co-founder
PhD in NUS



LIEW Shuo Ren
Co-founder
B.Eng, NUS Class 2019

Advisors



BAI Renbi
Advisor,
Prof, NUS



LEE Kum Leong
General Manager,
Cembrane



OU Chung-Pei
Venture
Manager, NUS



YONG Yoke Ping
Technology
Manager, NUS

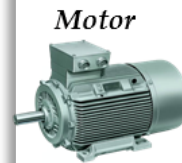
The problem

- *High severity* fault detection
- *Higher equipment OPEX* due to ineffective maintenance
- *Multiple monitoring systems* for single equipment

Value proposition

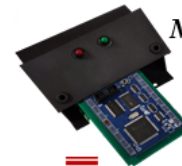
- *Early stage* anomaly detection
- *Multi signatures* based efficient maintenance strategy
- *Single system* for both electrical and mechanical anomalies

Solution



Monitored anomalies

- Stator winding fault
- Cable fault
- Cracked rotor bar fault
- Misalignment
- Unbalance
- Overall vibration
- Operating hours

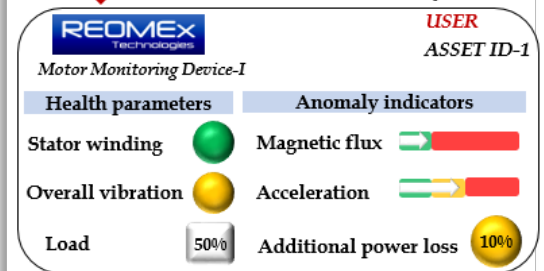


MMD-I

Signals

- Magnetic leakage fluxes
- One terminal current
- Overall vibration

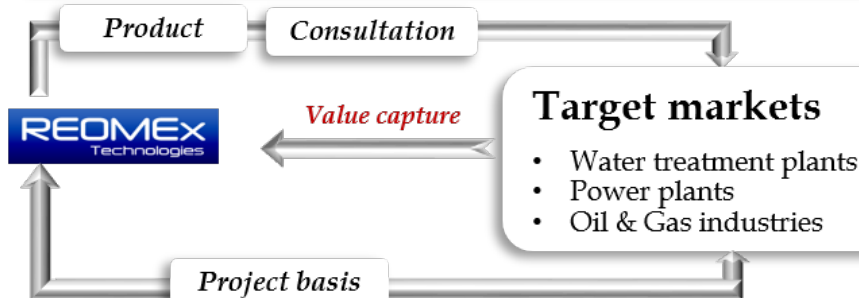
Web-based interface



- Alarm signal
- Single holistic asset monitoring

Dashboard

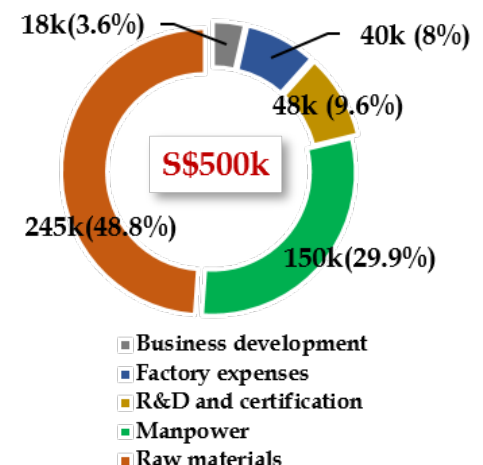
Business model



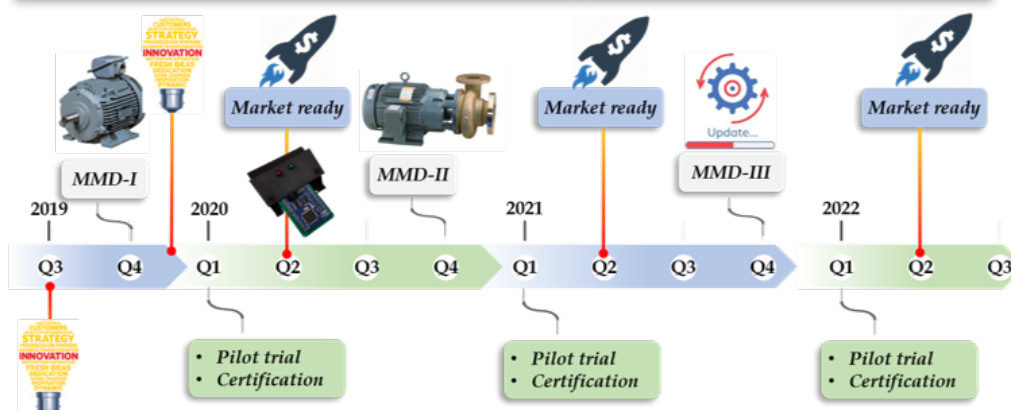
Intellectual property

- Patent applied (PCT/SG2019/050389)
- Another patent is in the pipeline

Funding needs (1st year)



Roadmap



Advisors



Mr. Jack So, Venture Development Manager
Over 10 years experience in business management & Start-ups



Mr. Paul Singh Gill, Commercial champion
20 years post-merger due diligence experience, serial entrepreneur, investor and mentor

Team



Dr. Subash chandar Athikessavan, Co-founder
Expert in fault detection and diagnosis of electrical machines, signal processing and technology analyst



Dr. Sanjib Kumar Panda, Co-founder
20 years of R&D and teaching experience, secured >\$20m of research grants from various industries and funding agencies



The Problem

Software developers waste 18 hours per week searching for, refactoring, debugging and optimising code.



Our Solution

Smart code snippet recommendations and best-practice documentation integrated into your development environments.

Benefits

- Available within the developer's environment
- Context aware and relevant recommendations
- Shared knowledge base of code snippets

Intellectual Property

Provisional Patent filed

A unique user flow providing curated recommendations within the developer's environment backed by our AI trained on public and proprietary code data sets that makes the recommendations smarter by studying the developers' behaviour and usage.



Achievements

- NUS Spark Tank 2019 1st Runner Up
- AngelHack 2019 Finalist

Launch Partners



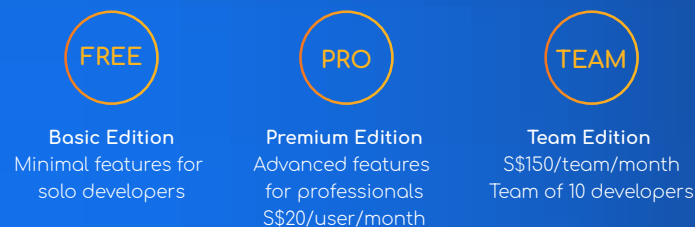
Timeline & Milestones



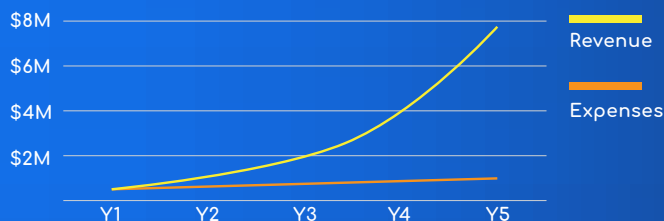
Market Potential



Business Model



Financial Projections



Team Profile



Prasanna Pawar, Co-Founder
Masters Computer Science NUS, NOC Alumni



Manish Ghumnani, Co-Founder
Masters Computer Science NUS

Directors, Advisors/Consultants

Anjan Bhutada
Director go4Fresh.in
Experienced Startup Mentor

Nuno Covas
Sales Consultant
GRIP Commercial Champion

Powered By

NUSGRIP
GRADUATE RESEARCH INNOVATION PROGRAMME

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Problem & Proposed Solution

Current disinfection methods like UV light and hydrogen peroxide vapors are unsafe for humans and can only be used episodically

Solution: Visible light, which is completely safe for humans, can be used continuously

Competitive Advantage

Targeting bacterial hotspots leads to higher disinfection, greater than 99.999%*

Broad-spectrum: kills bacteria, yeasts, molds

Data-driven system for continuous improvement

Intellectual Property

Visible light disinfection method

Database of operational parameters for high efficacy in various environments

Partnerships for Pilots



Roadmap

Year 1 : Pilots in 1 hospital
Year 2 : Sales to 2 hospitals
Year 3 : Sales to 5 hospitals
Year 4 : Overseas expansion

Contact Information

Email: vinayak@safelight.tech

Phone: 65-83715652

*Under test conditions

Disinfection Market Size

HOSPITALS

SOM: S\$ 15.1 M

CAGR: 5.1%

FOOD PROCESSING

SOM: S\$ 14 M

CAGR: 4.4%

Revenue Model

Product Sales + System Maintenance Fee

Funding

Seed Round: S\$ 1 Million

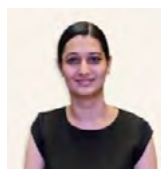
Team



Vinayak Ghate
Business Lead
PhD, Visible Light Disinfection



Zwe Ye Htut
Microbiology Lead
PhD, Microbiology



Tania Ahlawat
Design Lead
MSc, Sustainable Design

Advisors



Prof. Weibiao Zhou
Systems Engineering



Dr. Hyun-Gyun Yuk
Microbiology



Chung-Pei Ou
Scaleup & Commercialization



Shivendu Nadkarni
Business Strategy



SYNECTIFY
think outside the tesseract

Vision: an Internet of Trusted Things

Innovating at the intersection of IoT and blockchain, Synectify's RootChain™ platform enables patent-pending, blockchain-secured two-factor authentication smart tagging for physical products

Problem Statement & Solutions

Brands and Producers Need to

- Reduce losses from counterfeiting
- Increase customer trust and loyalty
- Gain insights about their customers



RootChain™ by Synectify Provides

- Counterfeit detection for brands
- Customer engagement
- Market analytics



Competitive Advantage

- Patent-pending 2FA for physical products
 - Secure
 - Inexpensive
 - Convenient



Intellectual Property

Patent-pending (2019) core technology covering:

- Smart packaging
- Asset management
- Digital twinning

Achievements

- Two years of research and development to date

Partners

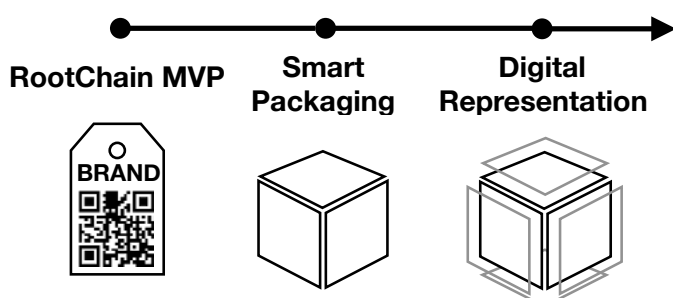
- Ginseng Board of Wisconsin (USA)
- Drone Energy, LLC (USA)
- SCALE (Rep. of Korea)



Drone Energy
Blockchain Infrastructure™

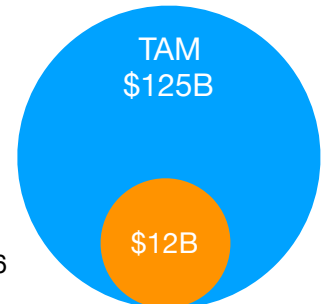
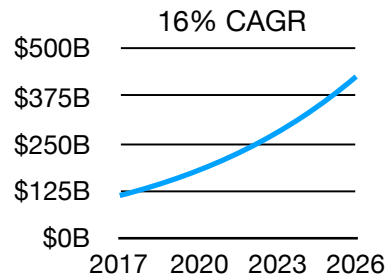
SCALE

Product Milestones



Market Potential

Global Anti-Counterfeit Packaging Market Value



Service Available Market: US\$12B

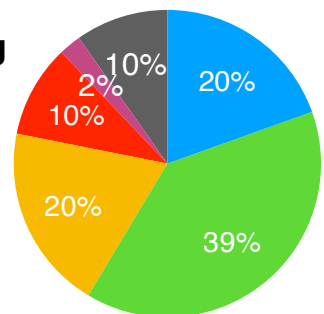
Revenue Model

- Blockchain-secured smart package tagging
- Counterfeit detection
- Data sales
- IP licensing

Funding & Financing

Funding gap: S\$487,000

- Management
- Development
- Operations
- Sales and Marketing
- Cloud
- R&D



Team Profile



Peter Finn
CEO, (PhD ABD, NUS-KCL)



Jonathan Kochmer
CTO (PhD ABD, Yale; MSc, Yale)



Echo Wang
CBO (PhD, NUS-KCL; MSc LSE)



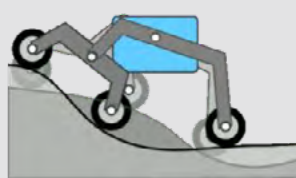
The Problem

Current robotic navigation solutions are:

- **Costly**, as they rely on expensive LiDAR sensors.
- **Complex**, as pre-built high-definition maps or simultaneous localization and mapping (SLAM) technology is required for every deployment.

Our Solution

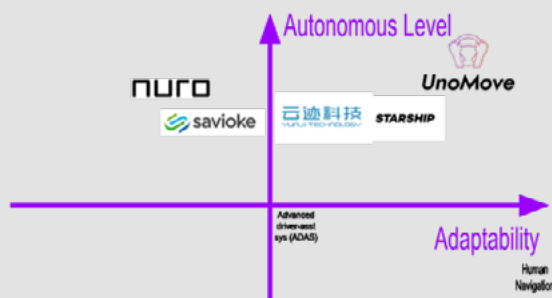
Crude Map & Visual feedback + Penalty Learning = Optimal Robotic Control



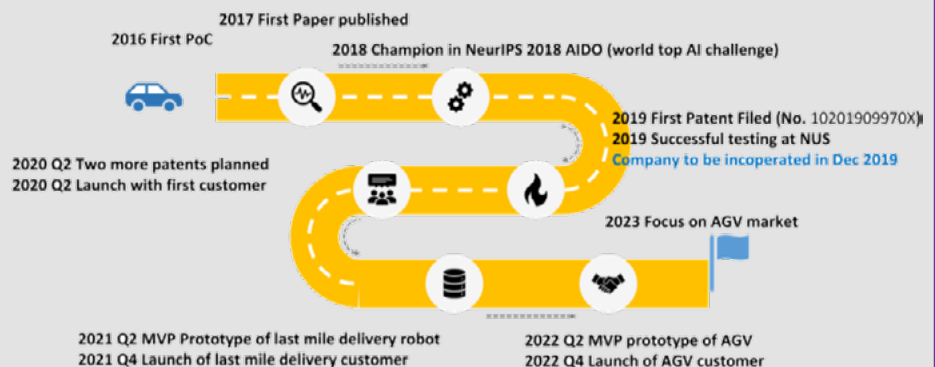
Key Benefit:

Lower cost & simpler operation allows autonomous robots to be deployed in a wider variety of consumer & industrial applications.

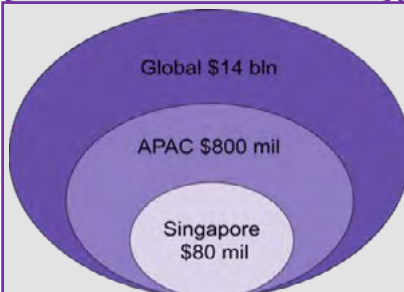
Competitive Position



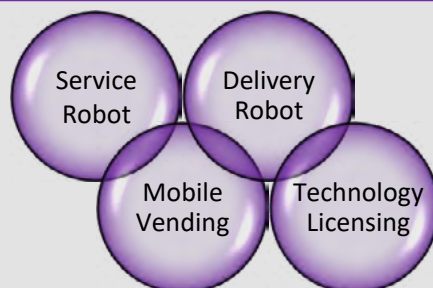
Our Journey



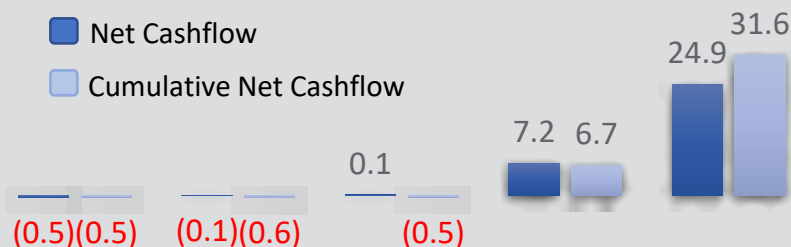
Market Size



Target Segments



Financial Projection



Gao Wei
Founder & CEO
Tsinghua BE
NUS PhD Candidate



Bai Haoyu
CTO
Fudan BE
NUS PhD



Chen Bai'an
Business Director
MIT BE



David Hsu
Advisor
Vice Dean (Research)
NUS School of Computing



Jane Shen
Advisor
Chief Scientist & MD
Pensees Singapore

Email: contact@unomove.com

Tel: +65 9230-4682



We make virtual conversations real



We create richly detailed populations of virtual agents with whom users can have free and natural conversations.

Anytime anywhere access.

No confidentiality issues.

URL : www.Vir-Pop.com

Email : Admin@Vir-Pop.com

Our initial product

Medical Schools have limited number of patients for students to practice their patient engagement skills.

They need:

- More patients
- More contact time
- Inexpensive
- No confidentiality issues
- Safe

We provide:

- Unlimited virtual patients
- More contact time
- Inexpensive
- No confidentiality issues
- Safe



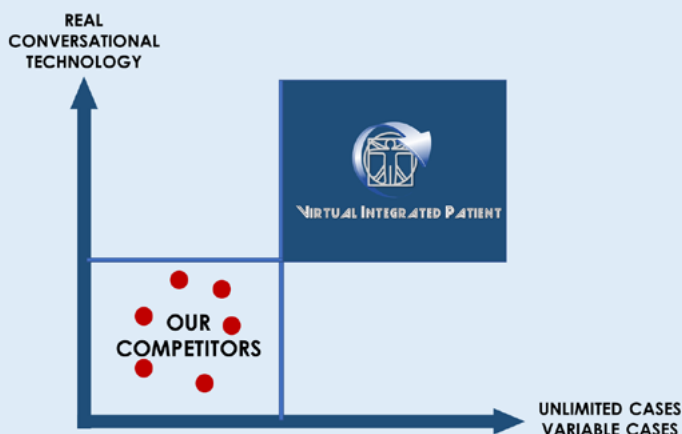
VIRTUAL INTEGRATED PATIENT

Supported by:

Ministry of Education grant 2017
NUS Medicine grant 2019

Minimum Viable Product in 2019
Implemented in NUS Medical and Nursing Schools in 2019

What distinguishes us

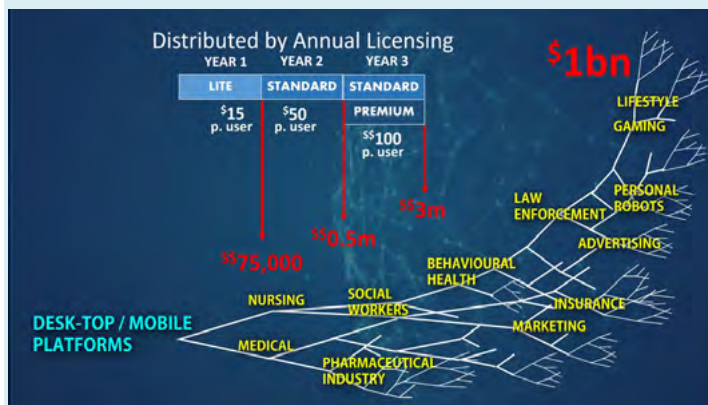


Scalable, customizable, sustainable technology.



Partnering
SRM Medical College, India

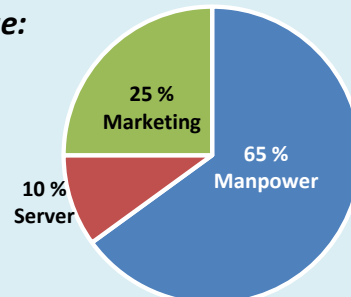
Our market potential



Funding & Financing

GRADUATE RESEARCH INNOVATION PROGRAMME
ESG Grant

Fund Usage:



Who we are



Prof. Edmund LEE Dr. Viveka KALIDASAN

National University of Singapore National University of Singapore
Chief Executive Officer Chief Operating Officer

Prof Lee, inventor and CEO, was trained in Internal Medicine and subsequently obtained his PhD in clinical pharmacology. He has been teaching in the NUS Medical School for almost 40 years and has devoted much of his energies in developing interactive simulation models of drug response, both in individuals and to address interindividual variability.



NUSGRIP
GRADUATE RESEARCH INNOVATION PROGRAMME

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