



A-EYE

An Intelligent Eye Disease Classifier

Stephanie Chua

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☎ 013-8160118

A-EYE



Technology / IP Status



Registered under MyIPO
(Copyright: CRLY2025Q02991)

Founder & Team

1. Assoc Prof Dr Stephanie Chua Hui Li
2. Prof Dr Lim Lik Thai
3. Prof Ts Dr Dayang Nurfatimah bt Awg Iskandar
4. Mr Alvin Choo Ming Siang

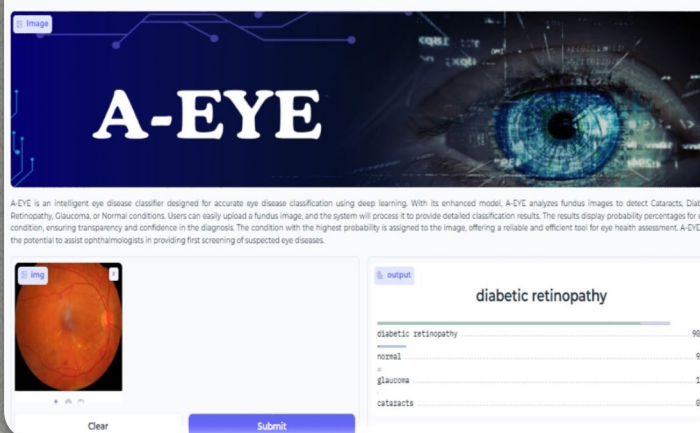
The Problem

- **Irreversible vision loss:** Major conditions like glaucoma and diabetic retinopathy are asymptomatic in their early stages. Late detection directly leads to permanent blindness.
- **Specialist shortage:** A global shortage of ophthalmologists creates massive diagnostic bottlenecks. Inefficient workflows for mass screening.

The Solution

- **Instant Triage:** An intelligent diagnostic engine that analyzes retinal imagery and delivers highly accurate screening results in seconds.
- **Scalable Integration:** Can be used in any clinics with a computer and fundus camera.
- **Accessible eyecare:** Empowers primary care physicians, local clinics, and optometrists to perform specialist-level preliminary screenings anywhere in the world.

A-EYE: An Intelligent Eye Disease Classifier



Business Model

Designed by:		Designed by:		Date:	Version:
A-EYE		A-EYE Project Team		30/08/2026	1.1
KEY PARTNERSHIPS • Ophthalmologists, eye-care specialists • Healthcare facilities, clinics, community health centers • Public health organizations, NGOs • AI and cloud technology providers • Fundus camera manufacturers • Universities and research institutions	KEY ACTIVITIES • Continuous improvement of the AI models • Development and maintenance of the web application • Roadshows and engagement with potential partners • Future integration with healthcare and screening workflows KEY RESOURCES • A-EYE classification model and software platform • Retinal fundus image datasets • Ophthalmic expertise • Software development team	VALUE PROPOSITIONS • AI-assisted multiclass eye disease classification • Rapid preliminary screening support for cataracts, diabetic retinopathy, glaucoma and normal eyes • Potential to extend screening capacity where ophthalmological expertise is limited • Potentially scalable solution for community and primary-care screening programs	CUSTOMER RELATIONSHIPS • Technical and user support for healthcare organizations • Training and onboarding sessions • Feedback-driven system improvement • Long-term collaboration for validation and implementation CHANNELS • A-EYE web application • Healthcare clinics and hospitals • Community and mobile eye screening programs • Partnerships with public health organizations and NGOs	CUSTOMER SEGMENTS • Primary: Healthcare providers, primary-care clinics, hospitals, community eye screening programs • Secondary: NGOs, public health agencies, tele-ophthalmology services, and organizations providing eye care in remote or underserved areas	
COST STRUCTURE • AI model development and optimization • Software development and maintenance • Cloud infrastructure and storage		REVENUE STREAM • Clinical validation and testing • Regulatory compliance and certification • User training and technical support • Integration with existing healthcare systems		REVENUE STREAM • Institutional or organizational subscription • Pay-per-screening model • Licensing to healthcare providers • Partnership with healthcare organizations and NGOs • Research or government-funded implementation programs • Institutional deployment and integration fee	

TRL progression

- **Current status: TRL 5**
 - Testing of private clinical data: 9/10 accuracy.
- **Next step: TRL 6**
 - Require funding for next level of TRL.
 - Plan for testing in actual clinical environment as well as mass screening exercise.
 - Potential collaboration with NGOs, clinics, hospitals and fundus camera manufacturers.

OUKUN™ LIBERICA



Logo

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Founder & Team



Associate Professor Dr. Elexson Nillian [UNIMAS] , RTTP —**FOUNDER** - 10+ years in Food Science & Technology, specializing in food safety, quality assurance, technology commercialization, and agrifood innovation. Certified FSSC 22000 Lead Auditor, HACCP/GMP Auditor, and Adjunct Professor at Universitas Brawijaya



Technology / IP Status

Validated through preclinical studies and human user assessments, and achieving TRL 6+ readiness, OUKUN® is commercially positioned to transform coffee by-products into high-value wellness solutions. - IP filing PI2023006837

The Problem



The rapid growth of Sarawak Liberica coffee production generates increasing amounts of coffee pulp and cascara waste, much of which remains underutilized. Without proper management, this waste contributes to environmental pollution, while rising mental health concerns in Malaysia create a need for innovative wellness-focused solutions.

Business Model



G2G – Institutional Partnerships
B2C – New Product - Direct Consumer Channels
C2C – Consumer to Consumer / Customer to Customer Advocacy

The Solution

Unlike conventional teas that focus on refreshment and general wellness, OUKUN® LCAC-01 is a science-backed functional beverage developed from Sarawak Liberica cascara and enriched with unique compound to support gut health, mental wellness, and cognitive clarity.



Traction to Date



CRL 3 (Market Validated). Strategic partnerships established with PPKS, Rekajaya Plantation Sdn. Bhd., UNIMAS, and local coffee-growing communities. Multiple Liberica coffee by-product prototypes developed and validated through stakeholder engagement and market feedback. Revenue generation: pre-traction.

Subunit vaccines against **PSEUDOMONIASIS** in Aquaculture

Associate Professor Dr. Chung Hung Hui

Cindy Kho Jia Yung

Faculty of Resource Science and Technology, Universiti Malaysia Sarawak,

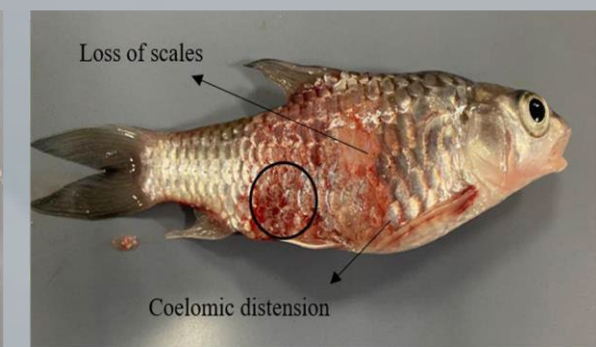
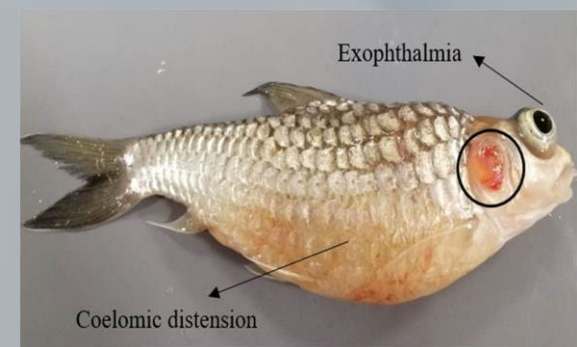
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The Problem

Pseudomonas spp. are pathogenic to fish,
resulting in **significant economic losses (15% Mortality)** in the **aquaculture sector**.



The Research

Contents lists available at [ScienceDirect](http://www.elsevier.com/locate/fsi)

Fish and Shellfish Immunology

journal homepage: www.elsevier.com/locate/fsi

Full length article

Selection of vaccine candidates against *Pseudomonas koreensis* using reverse vaccinology and a preliminary efficacy trial in *Empurau (Tor tambroides)*

Cindy Jia yung Kho^a, Melinda Mei Lin Lau^a, Hung Hui Chung^{a,*}, Koji Fukui^b

^a Faculty of Resource Science and Technology, Universiti Malaysia Sarawak, 94300, Kota Samarahan, Sarawak, Malaysia
^b Molecular Cell Biology Laboratory, Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Fukasaku 307, Minuma-ku, Saitama, 337-8570, Japan

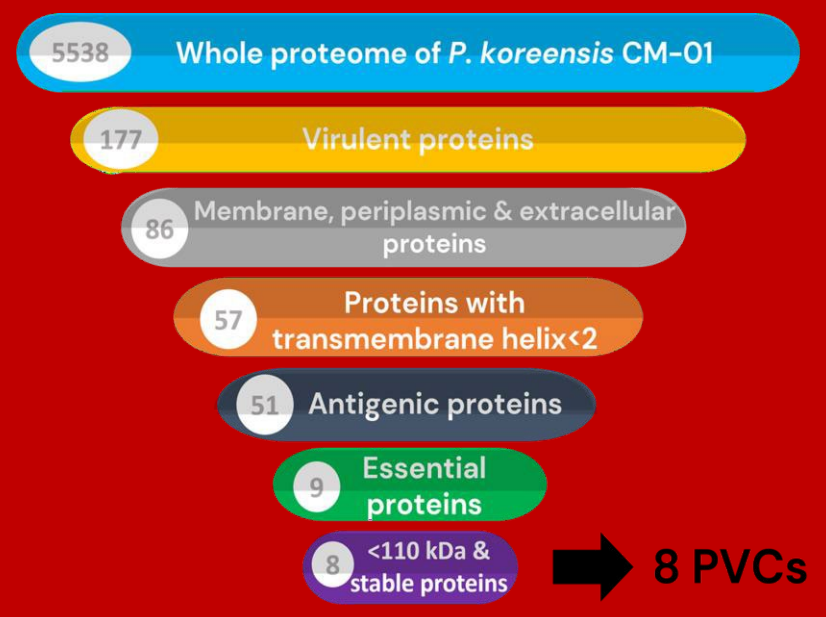
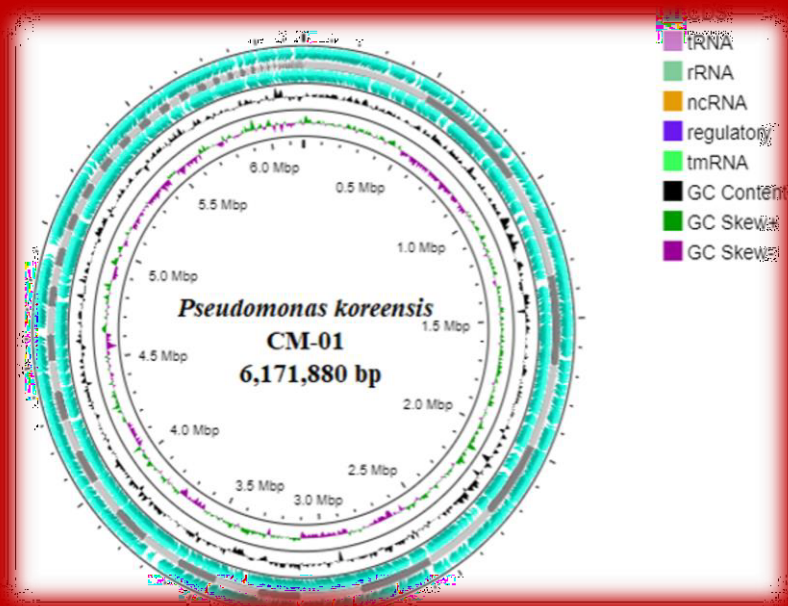
ARTICLE INFO

Keywords:
Pseudomonas koreensis
Tor tambroides
Reverse vaccinology
Subunit vaccines
Protective efficacy

ABSTRACT

This study marks the first utilization of reverse vaccinology to develop recombinant subunit vaccines against *Pseudomonas koreensis* infection in Empurau (*Tor tambroides*). The proteome (5538 proteins) was screened against various filters to prioritize proteins based on features that are associated with virulence, subcellular localization, transmembrane helical structure, antigenicity, essentiality, non-homology with the host proteome, molecular weight, and stability, which led to the identification of eight potential vaccine candidates. These potential

The Solution



Technology / IP Status

Patent Pending: PI2023007589 TRL 4

Perbadanan Harta Intelek Malaysia Intellectual Property Corporation of Malaysia	
Aras LG, G, 2-5, 11-13 & 15-23, Menara MyIPO, PJ Sentral, Lot 12, Persiaran Barat, Seksyen 52, 46200 Petaling Jaya, Selangor, MALAYSIA. Tel: +603 – 7496 8900 Fax: +603– 7496 8999 Website: http://www.myipo.gov.my	
PATENT DETAILS Disclaimer: The information available is not intended to be comprehensive information, Perbadanan Harta Intelek Malaysia (MyIPO) shall not be liable to any consequences of errors or omissions.	
(12) MALAYSIAN PATENT	(11)
(21) Application No.: PI2023007589	(56) Prior Art:
(22) Filing date:	-
(43) Date Open To Public:	(72) Inventor(s):
(30) Priority Data:	Chung Hung Hui Cindy Kho Jia Yung
(51) Classification, ICT CL:	(73) Patent Owner:
-	Universiti Malaysia Sarawak (UNIMAS), 94300, Kota Samarahan, Sarawak, Malaysia
(54) Title: RECOMBINANT PROTEIN FOR PRODUCTION OF VACCINE AGAINST PSEUDOMONAS INFECTION IN AQUATIC ORGANISM, VACCINE COMPOSITION, PRIMER SET AND METHOD THEREOF	(74) Agent:
(57) Abstract: The present invention discloses a recombinant protein for use in producing a vaccine against a Pseudomonas infection	MUHAMMAD IRFAN MUSTAQIM BIN AWANG, Patentsworth International Sdn Bhd, A-SG-11A, Sunway GEO Avenue, Jalan Lagoon Selatan, Sunway South Quay, Sunway City, Subang Jaya, Selangor 47500, Malaysia

Business Model – B2B

Aquaculture vaccine companies

Animal-health companies

Feed manufacturers

Biotechnology companies

Potential commercial arrangement:

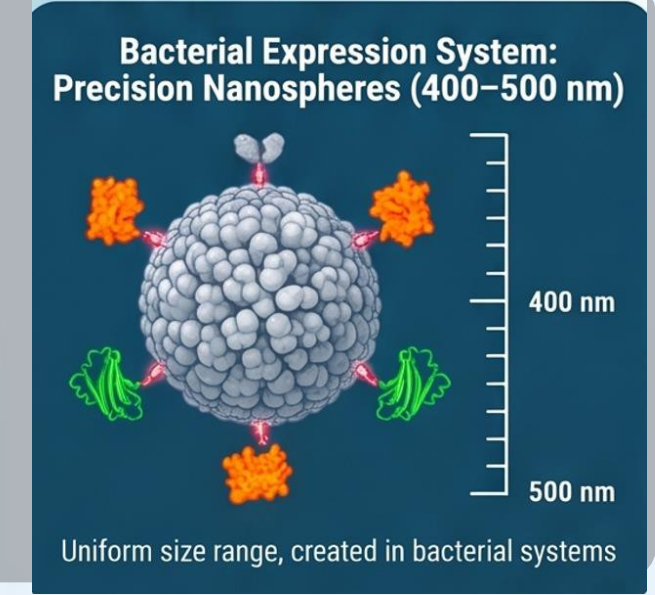
Upfront licensing fee + development milestones

+ royalty on sales

Outlook:

Nanosphere Delivery System

Nanosphere Specifications



**FLEXI-KNEE
COMFORT ACTIVE**
BED-BASED KNEE
REHAB

FLEXI-KNEE COMFORT ACTIVE

Portable Bed-Based Knee Rehabilitation System

Dr Annisa Jamali • UNIMAS

Empowering Recovery, Enhancing Lives

✉ jannisa@unimas.my

☎ +60138202476

Technology / IP Status

- ✓ **Functional prototype** developed & lab-tested
- ✓ **Compact, Foldable, portable design** • < 4 kg

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NEXT STEP Product Validation → MDA Compliance → Pilot Deployment

Founder & Team



Dr Annisa Jamali — Founder

Robotics & Control Systems

Dr Chai Chau Chung • Rehabilitation Specialist

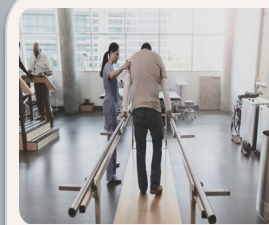
Dr Abang M. N. A. Kamaruddin • Design & Mechanism

Dr Mohd Syahmi Jamaluddin • Robotics

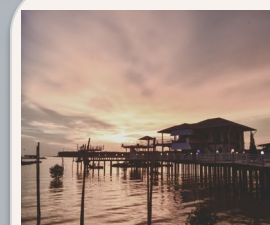
The Problem



01 Prolonged immobility
Bedridden elderly patients may develop joint stiffness and reduced knee mobility.



02 Therapist dependency
Repeated rehab sessions often require continuous assistance.



03 Home / rural access
Access to regular rehabilitation can be limited in home and rural settings.

Business Model

Device sales + OEM/licensing

Primary customers:

- Hospitals & rehab centers
- NGOs & home care providers

Affordable alternative to bulky CPM / robotic systems



The Solution

Automated knee movement for passive rehabilitation

Flexi-Knee gently moves the knee of bedridden patients without requiring active effort, helping maintain joint mobility and reduce stiffness during prolonged bed rest.

Designed to support recovery at home, especially for bedridden elderly patients.

< 4 kg
LIGHTWEIGHT

FOLDABLE

PORTABLE

HOME USE



Go To Market

- 1 Product validation
- 2 MDA compliance
- 3 Pilot deployment
- 4 Licensing / OEM & scale-up





Dr. Siti Zaleha Raduan
Natural Product Pharmacologist





Assoc. Prof. Dr. Muhammad Hamdi
Physiology Expert





Prof. Dr. Qamar Uddin Ahmed
Extraction Technology Expert





Assoc. Prof. Dr. Muhammad Salahudin Harith @ Haris
Formulation Specialist





Assoc. Prof. Dr. Awis Sukarni Mohamad Sabere
Pharmaceutical Technology Expert





Lost Indigenous Potential
Traditional knowledge not translate into scientific, commercial product



Untapped Biodiversity
Valuable natural resources remain underutilized



Market Gap
Limited availability of natural, plant-based functional beverages



Synthetic Dominance
Current drinks rely heavily on artificial ingredients

Product	- Engkala Wellness Boost - Wellness Engkala Refresh
Customers	- Health-conscious - Wellness consumers
Value	Natural, plant-based functional drinks with antioxidant properties
Raw Material	Sustainably harvested Engkala bark
Sales Channels	Retail, online, distributors & corporate sales
Revenue	Sale of functional beverages
Key Partners	UNIMAS, UniKL, IIUM, IKOP & other potential industry partners
Key Activities	R&D, mass extraction, mass production & marketing
Competitive Advantage	- Indigenous Sarawak resource - scientific validation - IP
Investment Needed	RM250,000

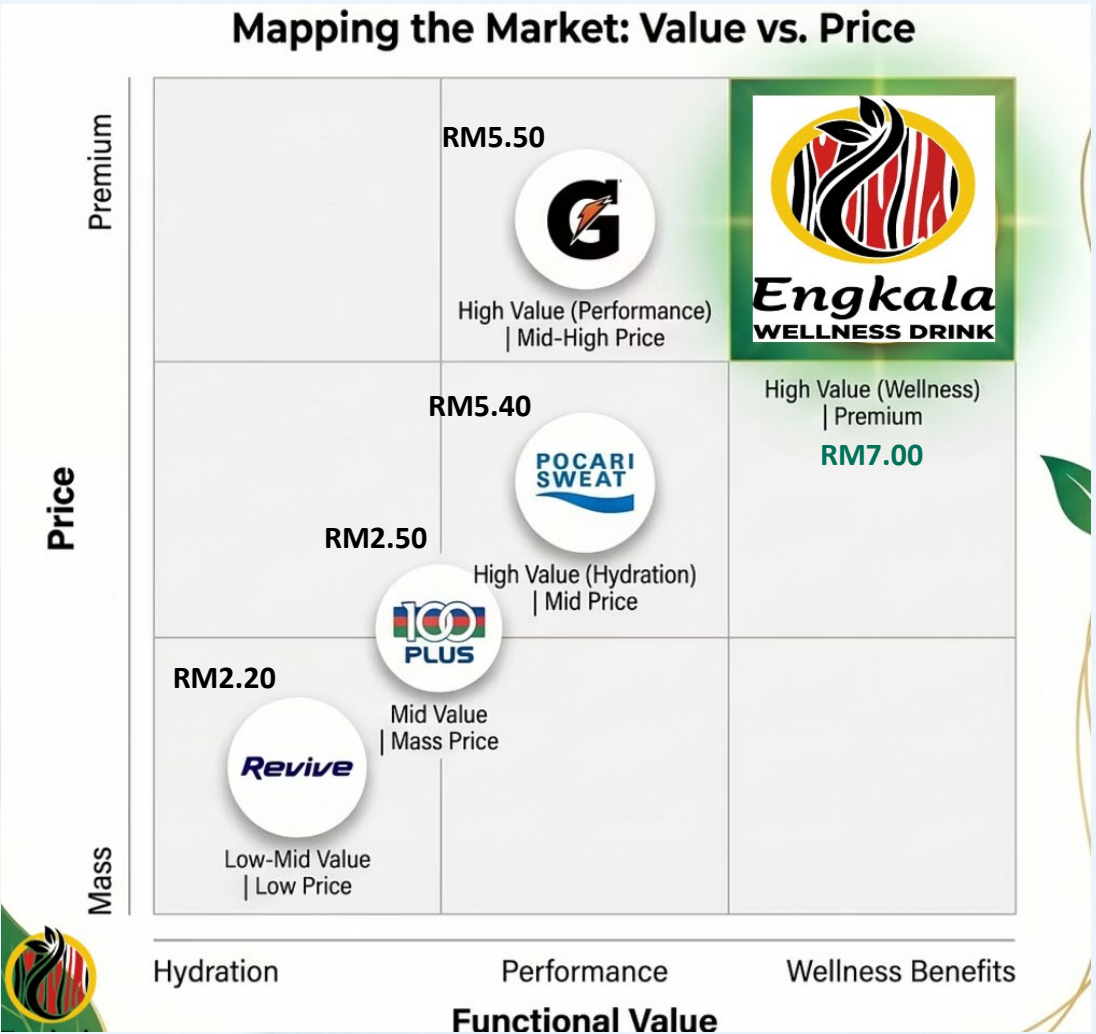


Engkala Wellness Boost
designed for energizing and wellness benefits



Wellness Engkala Refresh
formulated for isotonic hydration

Two product lines harnessing Engkala bark's natural antioxidant properties



The Gap vs. The Edge

The Problem	The iProfile Edge
 No objective measurement	 Counsellor-Specific Framework
 Generic appraisal systems missing counselling-specific gaps	 Dual Perspective Assessment (Self vs. Supervisor)
 Unreliable processes leading to low performance	 AI-Enhanced Analysis
 Supervisors lack systematic tools	 Personalized Development
	 Digital & Scalable

Product & Technology Engine



Addressable Market



The Revenue Engine

SaaS & Licensing

Annual Institutional (Starter RM5k / Pro RM15k / Enterprise RM30k)
Per-Counsellor (RM150/yr)
Pay-Per-Assessment (RM30/test)

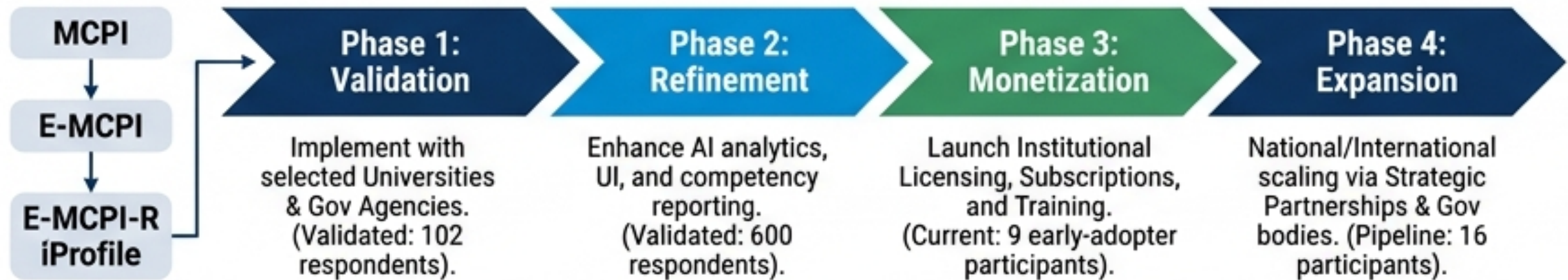
Services

Certification & Training (RM3k–RM15k based on tier)
Consultancy & Audits (RM5k–RM10k/project).

Enterprise & IP

Premium Predictive Analytics
White-Label IP Licensing (RM10k–RM20k / 2 years).

Traction & Go-To-Market Roadmap



The Innovators


Assoc. Prof. Dr Nor Mazlina Ghazali
Expert & Innovator


Dr Aqilah Yusoff
Expert & Industry Collaborator


Nur Hanis Fakhru Nizam
Expert & Innovator


Affifa Nabila Azmi
Technology Expert



Intelligent Stormwater Management System (I-StoMS)

Assoc. Prof. Ir. Dr. Charles Bong Hin Joo
UNIMAS Water Centre

Universiti Malaysia Sarawak (UNIMAS)

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☎ 082-583294 / 013-8089042

Technology / IP Status

Title: System for Discharging Sediment
Deposited in Storm Drain

Patent No.: MY -205143 -A

Date of Grant: 3 October 2024

Founder & Team

Assoc. Prof. Ir. Dr. Charles Bong Hin Joo
(Founder)

Ts. Ir. Leong Geok Teng

Prof. Dr. Tan Chong Eng

Ts. Dr. Lau Sei Ping

Dato Dr. Aminuddin Ab. Ghani



The Problem

- Up to RM40 Million per year for drain cleaning nationwide (The Star Online, 2016)
- RM48.7 Million damage due to flash flood in Kuala Lumpur between year (2010–2016) (Bhuiyan et al., 2022)

Recurring Localised Issues according to Practitioners:

- Flash Flooding (93.3%)
- Inadequate Maintenance (86.7%)
- Debris Blockage (73.3%)
- Manual Maintenance Cost (60.0%)
- Sedimentation (53.3%)



Business Model

- Site deployment package
- Hardware supply and setup
- Consultancy
- Project based implementation
- Annual software license
- Annual maintenance / support
- Future licensing



The Solution

- IoT integrated platform for more responsive and observable systems .
- Rather than replacing conventional drain infrastructure, I-StoMS provides additional operating mechanism that support controlled release of water, flushing action and monitoring capability .



Go To Market Strategy

- Municipal engagement
- Consultant recommendation
- Developer / project proposals
- Pilot demonstration
- University commercialization channels





iStreetlight: A Smart LED Streetlighting Solution

Chiew Kang Leng

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Technology / IP Status

Smart Streetlighting System with Predictive Maintenance

Patent filed

Founder & Team



Founder:

Chiew Kang Leng

Research Assoc:

Mohammad Firdaus Johari

The Problem



Faults discovered late
Reactive maintenance & site visits
Limited real-time asset visibility

Business Model



Revenue from
Smart streetlight + platform

Outright purchase + Maintenance

The Solution

LED Streetlight + IoT Connectivity + Cloud Management
=
Energy Analytics + Fault Detection + Asset Management



Go To Market Strategy



Direct engagement with potential customers

Deploy pilot project



MEASURE (Multilevel Emission Accounting System for Universal Reporting and Evaluation) by UNIMAS Greenhouse Gas Inventory Dashboard for Analytical GHG Management



Ir. Ts. Dr Lidyana Roslan



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Founder & Team



Ir. Ts. Dr Lidyana Roslan
Carbon Management Expert



Prof. Ts. Dr Shanti Faridah Salleh
Environment Impact Assessment Expert

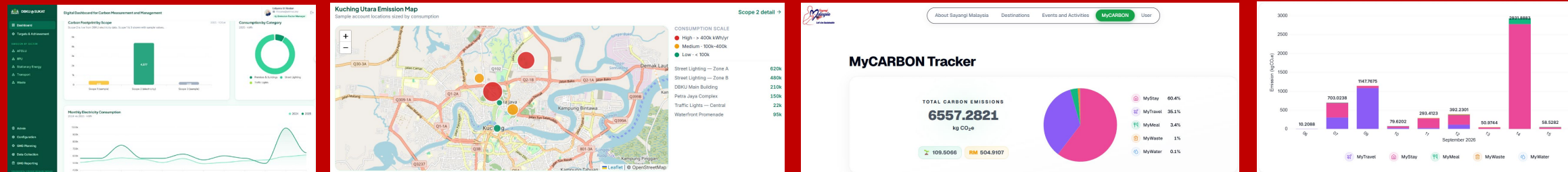


Ts. Majina Sulaiman
Data Analytic Expert

Technology / IP Status

Technology Readiness Level (TRL): 7
LY2025Q02989 LY2025Q00684

The Solution



1. Immediate Problems

Key challenges in current carbon management

- Fragmented Data**
Emissions data are scattered across people, organisations, and sectors.
- Inconsistent Accounting**
Different factors, methods, and boundaries make results hard to compare.
- Limited Action**
Data are collected, but not easily translated into reduction priorities and decisions.

2. MEASURE Solutions

An integrated and standardised approach

- Integrated Multilevel Platform**
Connect individual, organisational, and city-scale carbon data.
- Standardised GHG Accounting**
Harmonise factors, methods, and reporting boundaries.
- Analytical Decision Support**
Convert emissions data into hotspots, targets, and action plans.

3. Outcomes

Towards a lower-carbon, more resilient future

- Unified Reporting**
A single, consistent emissions view.
- Reliable Comparability**
Trusted and transparent carbon results.
- Actionable Management**
Faster decisions and measurable reduction progress.



Business Model

1 Target Customers

- Municipalities
- Companies with Multilevel Assets
- Tourism Agencies
- NGOs

2 Value Proposition

- See carbon impact and monetary exposure
- Quantify emissions across assets, sites, and activities
- Estimate the monetary value of emissions
- Support carbon offset / carbon credit / mitigation planning
- Model expansion vs future carbon emissions and carbon cost

3 Commercial Logic

- Bespoke Deployment
- Platform Licensing
- Scalable Expansion



Go To Market Strategy

- 1 Validate**
Demonstrate in real municipal and community deployments
- 2 Package**
Turn validated work into a repeatable but configurable platform
- 3 Convert**
Acquire paying customers through bespoke deployment
- 4 Scale**
Expand across assets, locations, and wider ecosystems

TropiShield: Climate Resilience Screening and Certification for Tropical Fruit and Crops

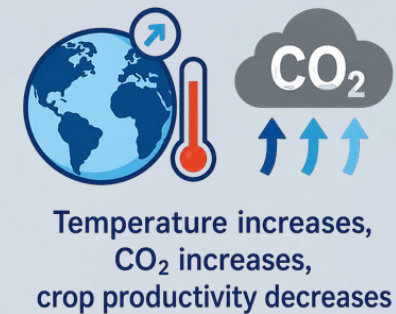
Ts. Dr Mohamad Hilmi Ibrahim | Vanishri A/P Kaly Sitthan

Founder & Team

- Ts. Dr Mohamad Hilmi Ibrahim – Project Lead
- Vanishri A/P Kaly Sitthan – Research Member
- UNIMAS / Faculty of Resource Science & Technology
- Project ID: UNI/F07/VC -HIRG - 2/86040/2023

The Problem

Rising temperature and CO₂ under climate change disrupt photosynthesis, transpiration, stomatal conductance and water use efficiency in tropical fruit species, reducing growth and productivity.



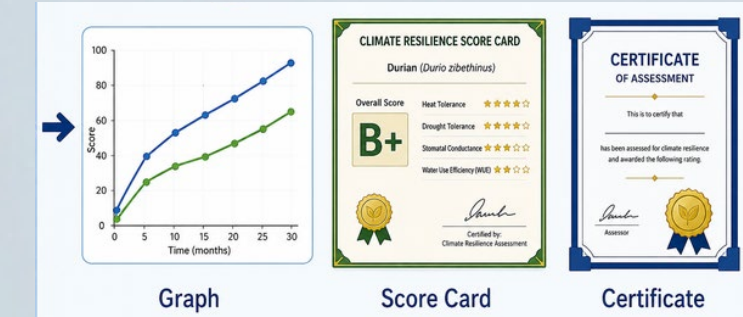
Technology / IP Status

- IP: CRLY2025Q01067
- Procedure uses LI 6400XT Portable Photosynthesis System



Business Model

- Testing and certification service for nurseries, orchards, seed firms and consultants.
- Deliverables include cultivar response reports, shade level recommendations and climate resilience screening.



The Solution

Design a controlled procedure to assess selected tropical fruit trees under simulated climate conditions: 30°C, CO₂ at 400 and 700 ppm, and PPFD 1800 μmol m⁻² s⁻¹. Species include durian, mangosteen, kristal, dabai and engkalak. The procedure converts gas-exchange measurements into practical decision support for growers.



Go To Market Strategy

1. Pilot with tropical fruit nurseries and orchards
2. Offer service packages for screening and reporting
3. Collaborate with agriculture agencies and consultants
4. Use demo results to support adoption and commercial rollout



Palm Oil Methyl Ester–Nanofluids as Biodegradable Dielectric Liquid for Transformer Oil Application (Bio Transformer Oil)



Yanuar Zulardiansyah Arief

High Voltage Engineering & Technology Research Group
Department of Electrical & Electronic Engineering
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Technology / IP Status

Technology Readiness Level (TRL): 5

- ✓ The technology or component has been validated in a relevant environment.
- ✓ Intellectual Property: LY2026Q02413 (Copyright)

Founder & Team



- Assoc. Prof. Ir. Ts. Yanuar Z. Arief
- Assoc. Prof. Ir. Ts. Dr. Siti Kudnie Sahari
- Dr. Sharifah Masniah Wan Masra
- Ts. Dr. Mohamad Faizrizwan Mohd Sabri
- Dr. Nurul 'Izzati Hashim
- Ts. Yusri Jumat

The Problem

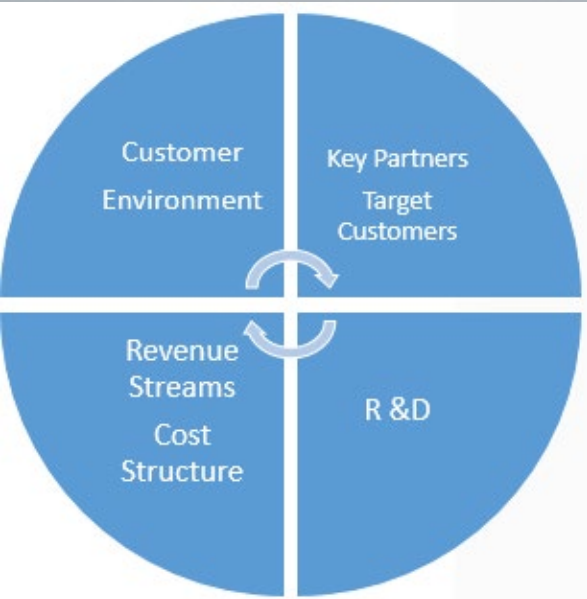


- **Environmental & Safety Risks:** Conventional transformer mineral oil is non-renewable, flammable, and causes severe environmental contamination during spills.



Mineral Oil

Business Model



The Solution

- ✓ The laboratory-synthesised POME exhibited comparable insulating properties.
 - Flash point, density, and kinematic viscosity
 - POME contains 100% fatty acid methyl ester
- ✓ Provided the comparative performance in electrical and some physicochemical properties, they are potentially suitable as a substitute for mineral oil which is non- biodegradable oil



Go To Market Strategy



❖ Enablers for application:

- Government Support & Policy
- Local R&D Ecosystem
- Market Acceptance



XR-Tourism+: Gamifying Heritage and Accessibility

TourAwak Trail

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Ts. Dr. Lim Phei Chin

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IP Status

- LY2025Q06102
- LY2025Q06107

Technology

TR6

Team



- | | |
|-------------------------------------|------------------------------|
| 1. AP Ts. Dr. Suriati Khartini Jali | 5. Dr. Mohamad Imran Bandan |
| 2. Ms. Abby Lian Hendrick | 6. Prof. Wang Yin Chai |
| 3. Mr. Mohd Harith Syazwan Samsawi | 7. AP. Ir. Dr. Kuryati Kipli |
| 4. Ts. Dr. Lim Phei Chin | 8. Prof. Sylvester Arnab |

The Problem



Current tourism scene presents communication barriers and challenges to the average Deaf traveler as they have unique information processing needs

Business Model



Advertising model (Means-end/MECCAS)

- Execution: Informative live demonstration at exhibitions and social media
- Revenue: Commissions from in-app endorsements

The Solution

Deaf-accessible, gamified and contemporary heritage experience

- Free XR mobile application with gamified activities
- Manual communication-centred UIUX such as BIM and KTBM



Go To Market Strategy



- Feasibility: 1 in 5 Malaysians are Deaf potential dive into a global accessible tourism industry valued at 200B USD
- Sustainability: In-app, Subscriptions, Advertisements, B2B partnerships,

Key Partners

- Museums in Sarawak
- Private heritage institutions
- Sarawak Deaf organisations
- Forestry
- Grassroots native/village communities

Key Activities

- XR application development & maintenance
- Accessible heritage content development
- BIM/KTBM integration
- User testing & community engagement

Key Resources

- TourAwak Trail platform & IP
- Heritage & BIM/KTBM content
- Technical & creative expertise

Value Proposition

- Accessible heritage
- Contemporary experience
- Heritage conservation and preservation

Customer Relationships

- Digital
- Community

Channels

- APK distribution platforms
- Social media

Customer Segments

- Deaf or Hard of Hearing Malaysians
- Malaysians fluent in Bahasa Isyarat Malaysia or Kod Tangan Bahasa Malaysia
- Hearing persons interested in learning Bahasa Isyarat Malaysia or Kod Tangan Malaysia

Cost Structure

- Compensations for interpreters, traditional practitioners, heritage consultants, creative professionals
- Marketing
- Database server
- Software licenses

Revenue Streams

- In-app transactions for profile customization
- Advertisements for Deaf-oriented services or local heritage businesses

AQUASYS: Integrated Aquaculture System

Name: AP Dr Faridah Sahari

✉ sfaridah@unimas.my ☎ +60198472474

Founder & Team

Project Leader

Assoc Prof Dr Faridah Sahari

Co-Researcher

Dayang Syahreeny binti Abang Mustafa
(Aqua Santubong SEDC)

Shaik Azahar Shaik Hussain (UNIMAS)



The Existing Problem

- design and operational challenges in the existing HDPE cage systems (broken joints, high maintenance, predator's threat, water-borne diseases,).
- Fishermen over-rely on traditional methods, leaving income vulnerable to monsoon seasons
- Coastal communities lack diversified, stable revenue sources



The Opportunity

- 1,000+ km of Sarawak coastline sits underutilized for aquaculture and tourism
- Government's (federal & state) policy, incentive – financial and technical

Technology / IP Status

TRL 6 – on site tested prototype

Copyright: LY2025Q00691

Business Model

- Revenue from fish, seaweed & shellfish harvests plus eco-tourism/edutainment tours
- Sell/license AQUASYS units to fisheries agencies e.g.JPLS,LKIM, DOA, NGOs & operators

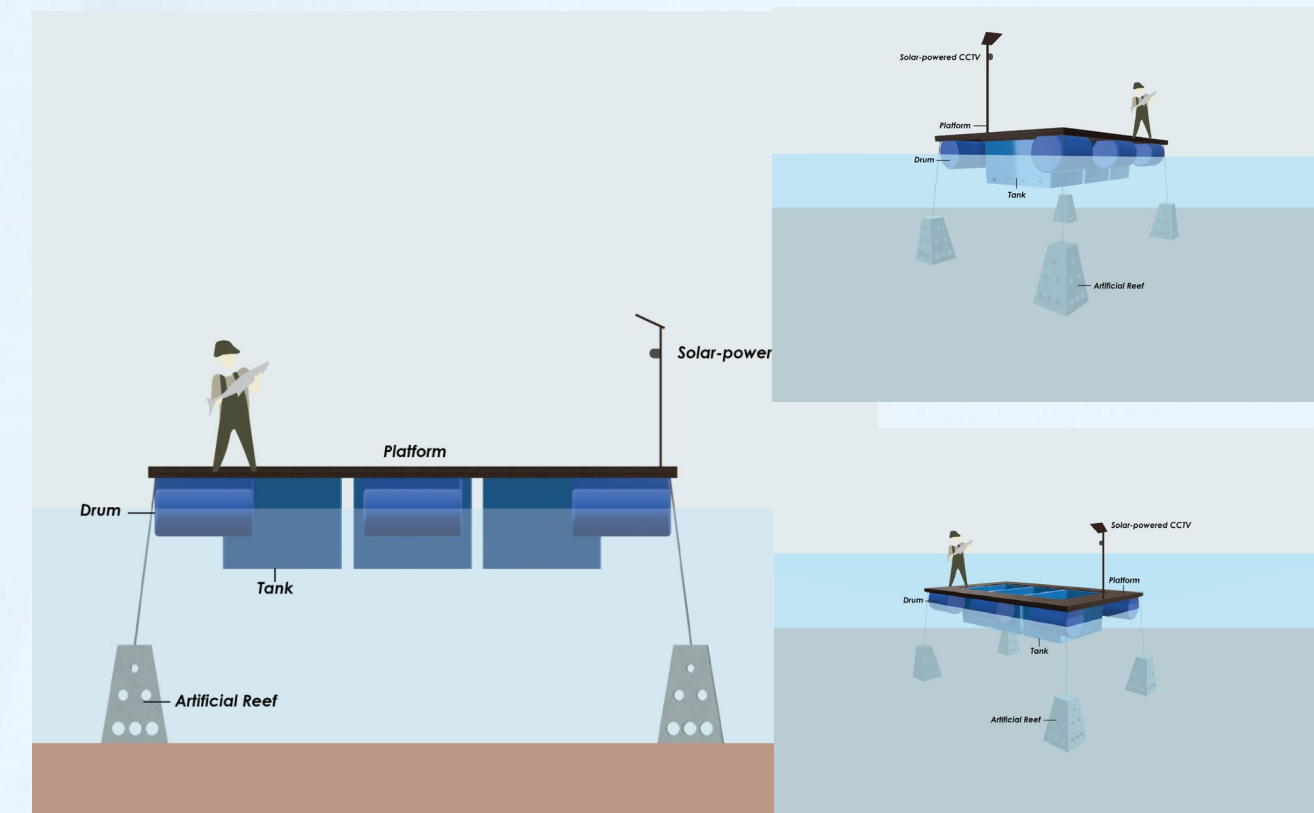


Market Strategy

- Target: state fisheries agencies, coastal communities & eco-tourism operators
- Aligned with MFCORD's coastal-economy agenda & Sarawak tourism campaign
- Partners: Aqua Santubong SEDC, Jabatan Perikanan Laut Sarawak, PNK local fisher community



AQUASYS Schematic Diagram



The Solution

- Adopted a transferable, dockable platform design specifically to withstand monsoon-season conditions, addressing losses observed with fixed HDPE cages.
- Incorporated multiple low-trophic components (seaweed, cockle shell, sempeng cultivation) identified through partner input (e.g., JPLS, DOA, PNK, LKIM, aquaculture's Operators, aquatic-biology experts) to reduce feed cost and improve sustainability.
- Adopted a modular, cluster-based design so the system can be scaled or replicated across additional sites (e.g., Belawai, Lawas) based on community and agency feedback.
- Positioned the platform as a living lab for research, training and educational tourism, reflecting stakeholder interest in multiple revenue streams beyond aquaculture alone.



SDGs



PX

ProFormaX

Smart Cost Prediction for Green Building & ESG Compliance

UNIMAS HiiTech, Universiti Malaysia Sarawak

Contact: +60 16 851 0954 | krullah@unimas.my

65%

cost savings potential

Technology / IP Status

IP held by UNIMAS

Patent App: CRLY2025SQ06019 / 8348

Founder & Team

AP Sr Ts. Br. Dr. Afzan Ahmad Zaini— QS, BIM & construction management
AP Dr. Rahman Uallah Khan — AI & predictive systems
Ts. Nurfaeza Jali — software engineering
AP Dr. Norhuzaimin Julai — systems integration

The Problem

Green costing remains manual; GBI estimates rely on spreadsheets.
ESG reporting is disconnected from building-performance data.
Engineering results are re-keyed into separate dashboards.

Business Model

SaaS pricing: RM199–RM1,500/month
Customers: QS firms, contractors, developers & institutions
Scale channels: state licensing, GBI facilitator adoption & government funding

The Solution

One workspace from early estimate to ESG reporting: project inputs, GBI formulas, Malaysian N3C cost data and ESG mapping are combined in one shared project record.

PREDICT

1

ASSESS

2

REPORT

3

COLLAB.

4

Predict cost → assess GBI → map ESG → recommend actions

TRL 7

83.3% easy use

200+ N3C

693 GBI

TRL progression

NOW: TRL 7 beta prototype
NEXT: web release + expanded UAT
VALIDATE: NTIS sandbox and market evidence
SCALE: licensing and enterprise rollout

RabiLAMP: Faster Answers. Earlier Action. Safer Communities.

RapidLAMP
Lighting the Way

RabiLAMP

Rapid Rabies RT-LAMP Detection

Dr Wong Kiing Aik | IHCM, UNIMAS

✉ awkiing@unimas.my

☎ 082-26 7777

Technology / IP Status

TRL 7

System demonstrated in an operational environment

✓ Validated by Sarawak Veterinary Diagnostic Laboratory (SVDL)

Founder & Team



Wong Kiing Aik — Founder & Project Leader
Commercial strategy • operational deployment
• scaling

Prof. David Perera & Dr. Ooi Mong How — Co-Inventors
RabiLAMP assay development • technical research

SVDL — Official assay validation partner

The Problem



- ❖ Sarawak faces a high and growing burden of animal bites and rabies exposure. (19,444 animal bite/scratch cases in 2025)
- ❖ Diagnostic results can take 3–7 days
- ❖ Centralized laboratory processing creates delays
- ❖ Private vets lack accessible, low-cost rapid molecular testing

Business Model



• Initial revenue – Diagnostic testing service for over 20 Private Vet clinics in Kuching

SERVICE LAUNCHED • JUNE 2026

• Long-term - Standardised RabiLAMP kit
Pre-mixed, shelf-stable format for scale

The Solution

Fast • Simple • Accessible

- ✓ Results in under 60 minutes
- ✓ Target-specific primers for regional viral strains
- ✓ Direct visual colour interpretation
- ✓ Rapid molecular screening without complex equipment

Negative Positive



Go-To-Market Strategy



SOM: Launch & scale service

Kuching → wider Sarawak

SAM: Regional expansion

Sabah + surrounding border area

TAM: Commercial kit

ASEAN → global endemic rabies markets



Gadong Sfera Biochar Seed Ball

Assoc. Prof. Dr. Rafeah binti Wahi

✉ wrafeah@unimas.my ☎ +6012-3189571

Founder

Assoc. Prof. Dr. Rafeah Wahi

Team

Prof. Dr. Zainab Ngaini

The Problem

- Reforestation is slow, expensive, and difficult.
- Communities lack "green" income.

The Solution

Gadong Sfera Biochar Seed Ball actively create a micro-environment that boosts germination rates and gives the seedling a fighting chance.

➤ Simple, low -cost, effective.

➤ Unique biochar formula for improved germination.

➤ Combines science, sustainability, and community.



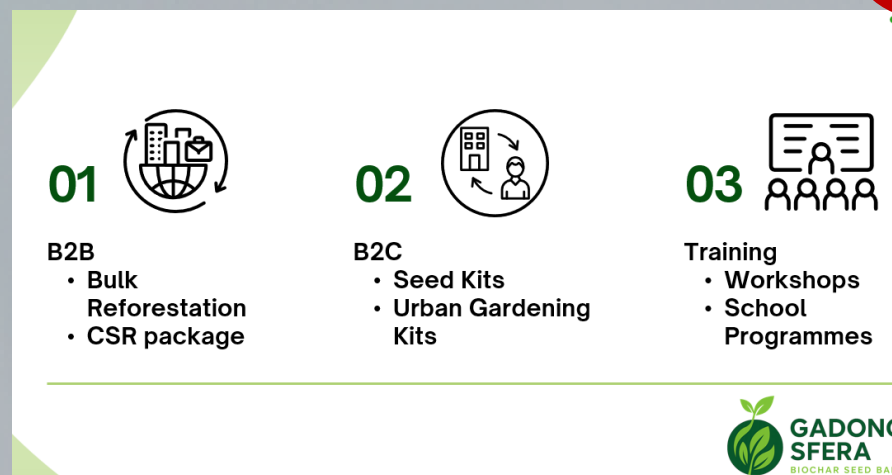
Technology Level: TRL6

IP Status: 2 patents filed

Business Model

Business Model Canvas				
GADONG SFERA				
Key Partners		Key Activities	Value Propositions	Customer Segments
• Government agencies (Forestry Dept, Local Councils)		• Seed Ball Production & Quality Control	• A cost-effective, scalable, and community-driven solution for reforestation and urban greening that enhances soil fertility and carbon sequestration through biochar.	• Government & Municipalities (reforestation & urban greening projects)
• NGOs & Environmental Organizations		• Research & Development		• NGOs & Environmental Groups (conservation initiatives)
• Universities & Research Institutions		• Marketing & Branding	Channel	• Farmers & Landowners (agriculture & soil restoration)
• Corporate CSR Programs		• Distribution & Logistics Management		• Schools & Community Groups (eco-education)
• Seed Suppliers & Farmers		• Stakeholder Engagement & Partnerships	• E-commerce (Website, Social Media Stores)	• Corporate CSR Programs (sustainability projects)
Key Resources		Key Activities	Revenue Stream	
• Raw Materials (Seeds, Biochar, Clay, Compost)		• Production Facility & Equipment	• Direct Sales of Seed Balls (Business to Customer, B2C & Business to Business, B2B)	
• Research & Development		• Marketing & Branding Strategy		
• Distribution Network		• Logistics & Distribution	• Bulk Orders from Government & NGOs	
Cost Structure			• Subscription-based Seed Ball Kits	
• Raw Material Procurement			• CSR & Sponsorship Funding	
• Production & Labor Costs			• Licensing & Technology Transfer	
• Research & Development				
• Marketing & Promotion				
• Logistics & Distribution				

Market Strategy





READi 2.0 | Integrated Web-Based Foundational Literacy Assessment & Intervention Platform

aclee@unimas.my | 017-856-4817

INVESTOR & FUNDER SNAPSHOT

Founder, Team & Validation

AP Dr Julia Lee Ai Cheng

Founder / Project Leader

+ 4 academic co-researchers

3

schools

2

specialist
associations

Validation network: SK Muara Tuang, SK Tabuan Jaya, SK Laksamana, Sibut Autistic Association & Dyslexia Association of Sarawak.

The Scale of the Problem

42%

late-primary children not
proficient in reading¹

24%

lack school-readiness skills²

113,059

learning-disability category,
2024³
(+46% vs 2020)

20,876

specific learning disabilities³
(dyslexia/dyscalculia/dysgraphia)

Malaysia direct learner base: 3.325M | 5–20% = 166k–665k potentially needing
targeted literacy support

Technology / IP Status

TRL 5

Prototype validated in relevant
school settings

6 registered IP assets listed
2023–2025

Phonics books • graphics • alphabet &
handwriting • READi logo • pedagogical
model • module graphics

Business Model: Recurring + Add-On Revenue

FREE ENTRY TIER

RM60–RM250 / MONTH

Annual subscriptions

RM612 – RM2,400 / year

RM2,000 30-hour practitioner certification

Add-ons: Book series RM150 • Parent dashboard RM80/month
(RM800/year)

The Solution: One Platform. Five Core Needs.

Assessment → Intervention → Monitoring

1

School readiness

Build alphabet, phonological and
handwriting foundations

2

Early screening

Identify foundational literacy gaps
sooner

3

**Personalised
intervention**

Structured, evidence-based learning
pathway

4

Anywhere access

Web-based learning across school
and home

5

Progress analytics

Transparent tracking for teachers
and parents



REAL SCHOOL USE + DASHBOARD DATA

Market & Go-To-Market

1.37B

GLOBAL TAM
ages 5–14⁴



115.5M

ASEAN SAM
ages 5–14⁴



3.32M

MALAYSIA SOM
Initial beachhead
market⁴



3.325M direct enrolled learner base in Malaysia⁵

506,232 preschool + 2,818,709 primary = 3.32M

B2C

Parents

B2B

Schools / centres

B2G

Government

PARTNERS

Distributors / tech

Malaysia → ASEAN → Global | scalable digital delivery

ANDANG: Culturally Grounded Mental Wellness via AI-Powered SMART

The Problem: Sarawak's Silent Youth Crisis

35.8% **Mental Health Prevalence**
Sarawak faces a critical shortage of support, with 1 in 4 teenagers reporting feelings of depression.

The 'Twin Barriers' to Care



Social Stigma

Preventing, preventing 72% of distressed youth from seeking the help they need



Geographical Access



Existing Generic Westernized Apps

Often rigid and lacking local cultural nuance

VS



Cultural Relevance Gap

The SMART Solution & AI Architecture

3-Tier 'Brain of Andang'



Computer Vision (Eye)



Emotion Modeling (Heart)

Generative AI (Voice)

SMART Art Therapy + GenAI

Combines traditional Sarawak Mandala Art Therapy with Generative AI to create a culturally grounded intervention tool.



24/7 Digital Sanctuary Ecosystem

Sarawak-inspired mandala analysis, an empathetic AI Chat Companion, and 7-day personalized wellness plans.



Advanced Safety Guardrails

AI built to be immune to manipulation and explicitly blocks self-harm ideation, redirecting users to healthy coping strategies.

Market Validation & Technology Status

70.83 **System Usability Scale (SUS)**

Rated "Good Usability" by 60 active users who noted the interaction feels like talking to real person.



Prestigious Accolades & IP

Recipient of the ITEX 2026 Gold Award and Google for Education Special Award; protected by IPs CRAR2025Q02156 and CRLY2025Q02990.

Business Model & Go-To-Market Strategy

Scalable B2G & B2C Model



Institutional Master License
(RM75k-120k/year)



Subsidized Freemium Tier
(RM10-15/user)

Strategic GTM Partnerships

Scaling collaborations with MOSTI team:



MoTAC



Majlis Bolia Malaysia (MRM)



Founder & Team

Led by
Ross Azura Zahit



Developed in collaboration with **UNIMAS** (Universiti Malaysia Sarawak)



SEED-EIA: AI-Integrated System for Automated Environmental Impact Assessment and Monitoring

Name: Dr. Lennevey Kinidi

✉ klennevey@unimas.my ☎ 014-9917902

Technology / IP Status

- PI 2025004936
- TRL 6

Founder & Team



- Professor Shanti Faridah binti Salleh
- Ts. Majina binti Sulaiman
- Dr. Lennevey Kinidi
- Dr. Josephine Lai

The Problem



- EIA Review is time-consuming and highly dependent on manual data review.
- Assessing project impacts and compliance requires significant expert time and repeated document checking.

Business Model

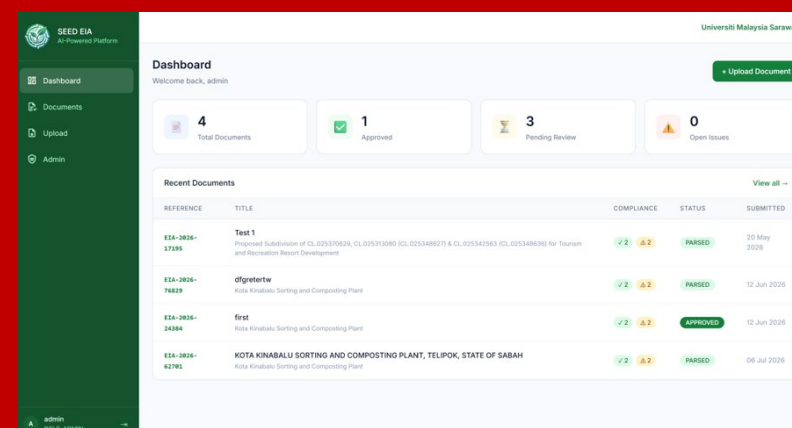


- Institutional licensing for agencies
- Annual system subscription and technical support

The Solution

SEED-EIA is an AI-assisted environmental intelligence platform for AI reviewing tools.

- **Reads and interprets** original EIA reports, including tables, figures, maps and coordinates.
- **Reviews evidence** systematically against EIA requirements.



Go To Market Strategy



1. Pilot with EIA practitioners and agencies
2. Validate through real EIA cases
3. Deploy through institutional licensing
4. Scale to wider environmental applications



Silver Shield: Nanosilver Pet Spray

Assoc. Prof. Dr. Showkat Ahmad Bhawani & Aldrin Felix Anak Nat @ Simbas



bshowkat@unimas.my



+60 16-859 6752

Technology / IP Status

- Green-synthesized silver nanoparticles (AgNPs) biosynthesized from Piper nigrum (black pepper) leaf extract
- Copyright-protected under LY2025Q02986
- Technology Readiness Level (TRL) 7 — system prototype demonstrated in an operational environment
- Gold Medal winner, INTEX2025

Founder & Team



- Assoc. Prof. Dr. Showkat Ahmad Bhawani — Founder & Principal Investigator, Faculty of Resource Science and Technology, UNIMAS
- Aldrin Felix Anak Nat @ Simbas — PhD Researcher, nanoparticle formulation and product development lead

The Problem



- Pet skin infections are common, but many treatments use harsh, chemical-based, and unsafe products for long-term use.
- They can irritate sensitive skin, contribute to antimicrobial resistance, and contain alcohol or synthetic chemicals.
- There is also a growing demand for safe, natural, eco-friendly alternatives.

Business Model



- Direct-to-consumer
- Wholesale distribution through veterinary clinics and pet stores
- Target markets: urban cat owners and rural/hunting-dog owners in Sarawak, expanding to Malaysia and SEA

The Solution

Silver Shield is a green-synthesized nanosilver (AgNP) spray made from black pepper leaf extract, a natural, antimicrobial pet hygiene solution that outperforms leading commercial brands in efficacy while avoiding the harsh chemicals found in conventional antiseptics.



Go-To-Market Strategy



- Phase 1: Sarawak launch via veterinary clinics, pet stores, and e-commerce (Shopee/Lazada)
- Phase 2: expansion into Peninsular Malaysia and regional SEA pet care markets
- Leverage INTEX2025 Gold Medal recognition and MRANTI/SIIDEX exposure for B2B and investor partnerships

Solar-Driven ZnO/GO Photocatalytic Wastewater-to-Hydrogen System

Decentralized On-Site Clean Fuel Generation & Wastewater Valorization for Industrial Decarbonization

Khairul Anwar Mohamad Said (Founder & Lead Researcher)
Universiti Malaysia Sarawak (UNIMAS)



✉ mskanwar@unimas.my

☎ 082-583299/018-9792066

Expression of Interest



Technology / IP Status

- **Current Readiness: TRL 4 Validated** (Kinetic hydrogen evolution rates established in lab).
- **Milestone Target: TRL 5 Validation** via modular outdoor flow panels (0.5–1.0 m²) tested with real wastewater batches under natural solar irradiation.
- Protected under **MyIPO Patent Application PI 2025008292**.
- **Funding Ask for TRL 5: RM 90,000** for outdoor testbed

Founder & Team



Khairul Anwar Mohamad Said: Founder & Lead Researcher (Nanomaterials, Photocatalytic Systems & Chemical Reaction Engineering), UNIMAS

Md Rezaur Rahman: Co-Founder / Materials Engineering (Advanced Nanocomposites & Materials Characterization), UNIMAS

The Problem



- **Fossil Fuel & Energy Dependency:** 70% of Malaysia's steel industry relies on volatile imported coking coal (RM 650–850/ton of steel) and natural gas.
- **Crushing Carbon Tax Liabilities:** Blast furnaces generate ~2.0 tonnes of CO₂ per ton of steel, facing up to **RM 180M/year** in carbon penalties (at RM 35/tCO₂e baseline).

Business Model



- **Model Framework:** Energy-as-a-Service (EaaS) / On-Site Hydrogen Purchase Agreement (HPA).
- **Dual Revenue Streams:**
 - *Long-term Gas Off-take:* Contracted clean H₂ delivery at RM 8–12/kg.
 - *Environmental Asset Monetization:* Monetizing verified carbon offsets (avoiding 10–12 tCO₂ per ton H₂) on the Bursa Carbon Exchange (BCX).

The Solution

- **Core Value Proposition:** Decentralized, zero-emission technical-grade hydrogen delivered directly at the plant gate at **RM 8–12 / kg** (fossil parity with zero carbon liability).
- **Key Differentiator:** 100% passive solar (0 kWh grid electricity), zero noble metals (no Pt/Ir), and zero freshwater consumption.



Go To Market Strategy



- **Target Early Adopter / Testing Partner:** Palm Oil Mills (e.g., Felcra Jaya Samarahan) with existing wastewater retention ponds and high on-site process heat demand.
- **Commercialization Pathway:**
 - *Months 1–12:* TRL 5 continuous modular validation (RM 90k milestone).
 - *Months 13–24:* TRL 6 operational pond pilot demonstration.



AlgaeBio Solution: RotiDrop (Biocapsule)

Teng Sing Tung

Faculty of Resource Science and Technology, Universiti Malaysia Sarawak



✉ tsteng@unimas.my ☎ 0138047387

Technology / IP Status

LY2025Q08239 (Copyright)

In progress of market survey (Targeting 20 -30
Aquaculture and Aquarium shops in Kuching.

Founder & Team

Dr. Teng Sing Tung – Lead Applicant and founder. 11 years of in **marine and freshwater algae**, molecular systematics and eDNA research.

Co-founders: Law Ing Kuo and Ong Yin Sing.



The Problem

- Malaysia's aquaculture industry lags behind neighbouring countries.
- Limited local, high -quality live algae feed restricts fish breeding and hatchery start -ups.



Business Model

- B2B (Business to Business)
- B2C (Business to Customers)
- Selling algae -based products and providing services

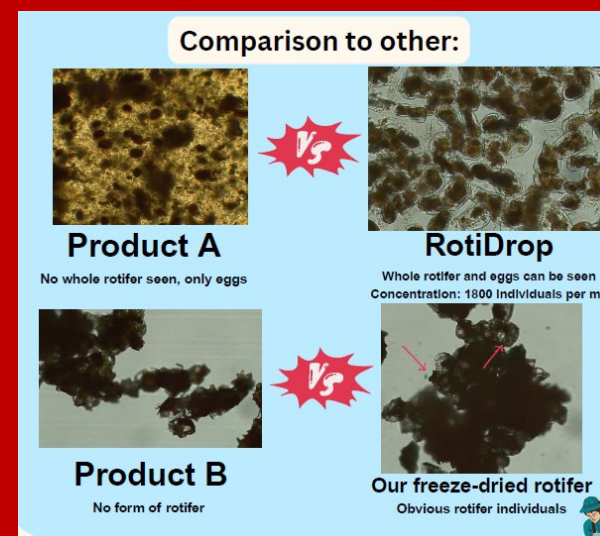


The Solution

- Rotifers: ideal live feed for hatcheries

We provide rotifer products:

- Perfect size for hatchling mouths
- Transfer nutrients (algae) to hatchlings
- Formulate your own aquatic feed.



Our go-to-market strategy uses direct

- To reach aquarium shops, hatcheries, schools and laboratories.
- Three products: live (local), solution and dry (regional)





ECOWRAP: SUSTAINABLE FOOD PACKAGING FROM AGRO-WASTE FIBRES AND NATURAL BINDER



Dr Mahshuri Yusof

Department of Mechanical and Manufacturing Engineering
Universiti Malaysia Sarawak (UNIMAS)



ayzulardiansyah@unimas.my



082-58 3289 / 019-2339436

Technology / IP Status

Technology Readiness Level (TRL): 4

✓ Eco-bond bio binder technology for food packaging

Founder & Team



Dr Mahshuri Yusof,
Voon Jui Joo
AP Dr Nicholas Kuan Hoo Tien,
Ir Dr Marini Sawawi,
Dr Nur Tahirah Razali,
Dr Ervina Junaidi,
Dr Junidah Lamaming

The Problem



- **The dependency on synthetic binders and plastics:** Current biodegradable solutions often rely on petroleum-based plastics or expensive imported synthetic binders
- **Biodegradable options** are costly rely on imported raw input, or use toxic synthetic binders for good strength
- **Underutilized Biowaste:** Millions of tons of local agricultural residues are burned or discarded

Business Model



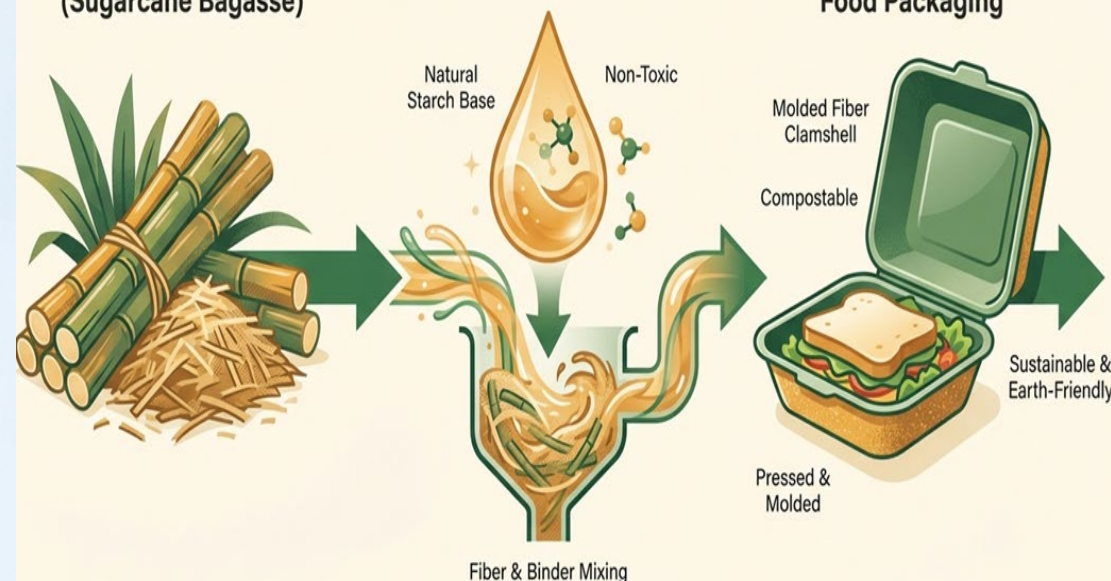
B2B TECHNOLOGY LICENSING

Focuses on technology transfer and royalties

1. Raw Agro-Waste
(Sugarcane Bagasse)

2. Eco-Bond Bio Binder

3. Biodegradable
Food Packaging



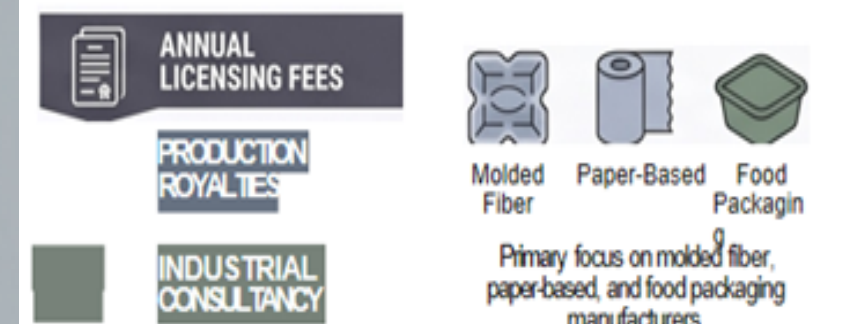
The Solution

ECO-BOND BIO-BINDER replaces synthetic glues and hazardous binding agents
TRANSFORMING UNDERUTILIZED AGRO-WASTE: Converts low-value residues like sugarcane bagasse, dried leaves etc into high-value with good mechanical-strength for food packaging.

Go To Market Strategy



PRIMARY REVENUE STREAMS AND TARGET INDUSTRIAL PARTNERS



Litsea garciae Lipid Extract: Transforming Borneo's Biodiversity into Next-Generation Wound Care

Technology / IP Status
Copyright number: LY2023Q04550
TRL 3

Founder & Team

AP Dr Zunika binti Amit (Leader, Biochemist)

✉ zunika@unimas.my ☎ 0138951679

Prof Dr Ehfa binti Bujang Safawi (Plastic surgeon)

Prof Dr Gabriele Ruth Fromming (Biochemist)

Dr Siti Fairouz binti Ibrahim (Microbiologist)

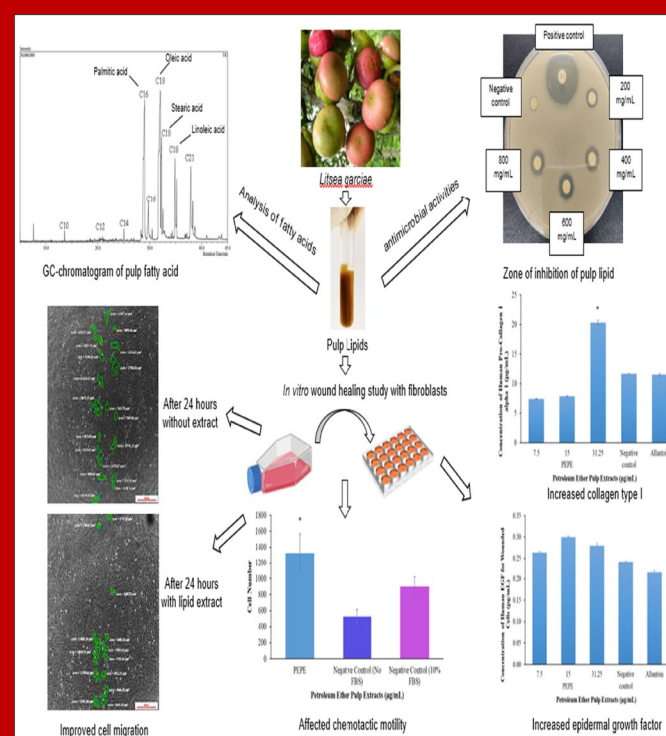


The Problem:

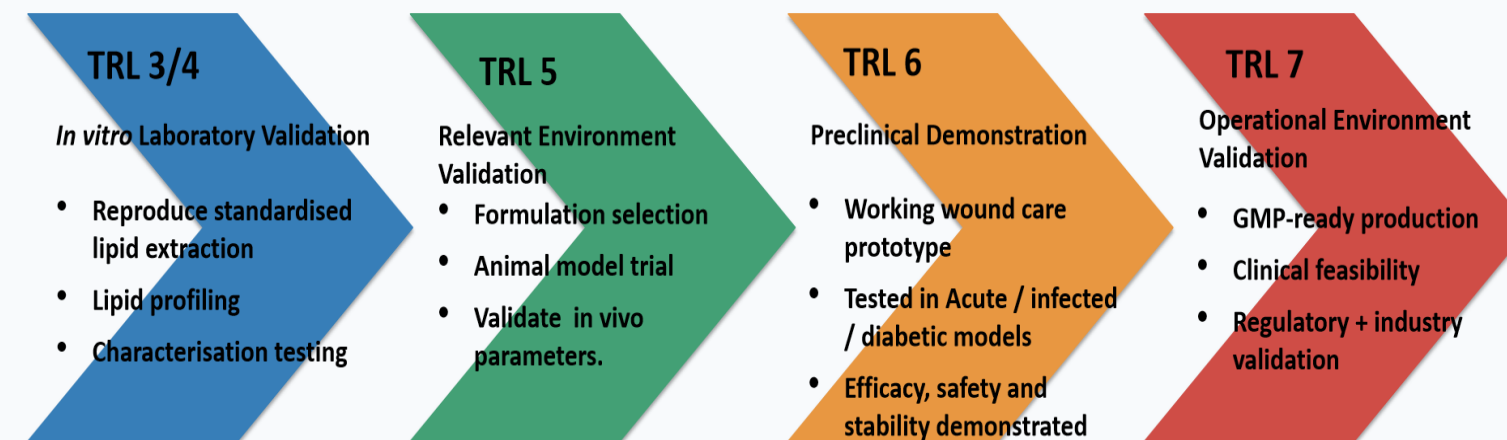
Wound healing is a complex process that requires a multifunctional approach—tissue regeneration, infection control, inflammation management, and faster healing.

Solution:
Harnessing *Litsea garciae* (engkalak) lipid extract for next generation wound-care applications.

- A potential natural, multifunctional wound-care product
- Unique combination of traditional relevance and bioactive lipid richness.



TRL 4 → TRL 7 ROADMAP



CURRENT POSITION

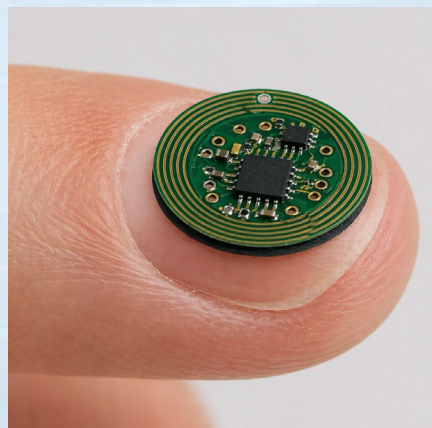
INNOVATION DRIVERS • Infection control: • Inflammation: • Tissue regeneration: • Skin barrier:

EXPECTED OUTCOME | Bornean Biodiversity → Bioactive Lipid Platform → Wound-Care Prototype → Clinical Translation & Commercialisation

The Ask:

RM 300,000 for in vivo testing and formulation.

The Future of Heart Monitoring is Not On Skin.



Dr Nur Alia Athirah Binti Hj Mohtadzar
Bio-Innovation and Biomedical Engineering Centre
Faculty of Engineering, UNIMAS

✉ mnaathirah@unimas.my ☎ +6011-2104 2124

Technology / IP Status
Copyright IP - CRLY2026Q02215, 2026

Founder & Team



1. Prof Alex Casson, The University of Manchester
2. Assoc. Prof. Ir. Dr Kuryati Kipli, FK, UNIMAS
3. Ir. Dr Kasumawati Lias, FK, UNIMAS

The Problem : The Skin Is Too Soft



- You Move = You Lose Data
- No Accurate Data During Motion.
- Accurate Data is Restricted during Resting.
- Almost All Heart Monitoring Wearables Require Direct Contact With The Skin.

Market Size



- 1.6 M active user in Malaysia
- RM 1.18B Profit in 2025
- Grow RM 2B by 2030

The Solution: A nail - mounted heart sensor

that tracks accurate health data even when you are moving

- **Miniature:** 10 mm diameter circular footprint
- **Battery-less:** Powered using NFC energy harvesting.
- **Wireless:** Wireless data streaming to receiver.
- **Wearable:** Cosmetic and ultra-light weight design.



Product Validation

- Proven through 30 on-person experiments under diverse motion conditions.
- Successfully validated across 5 distinct skin tones.
- First to demonstrate reliable Heart Rate Variability monitoring from nail during motion.

W-QIP 2.0

From Wi-Fi Problems to Actionable User-Centric Network Intelligence

Persistent monitoring • Real user experience • Proactive diagnostics



Team members:
Lau Sei Ping | Wan Hashim bin Wan Ibrahim | Tan Chong Eng | Rajan Thangaveloo | Mohamad Imran bin Bandan | Kamarulzaman bin Sharif

1 Technology / IP Status



- Existing prototype developed and validated (TRL 5-6)
- Target TRL 7 through enhancements and field validation
- User-centric active Wi-Fi QoE monitoring technology
- Current project: cloud integration, multi-probe deployment
- 20 probes | 5 sites | 24x7 monitoring
- Research / IP with potential for technology transfer and licensing

TRL 5-6 → TRL 7

2 The Problem

Network looks healthy. Users may still experience poor Wi-Fi.

- Conventional monitoring is infrastructure-centric (APs, controllers, NMS).
- Intermittent issues: poor throughput, latency, jitter, packet loss, weak signal, location- and time-dependent.
- Problems may disappear before administrators investigate.



Current:
Problem → Complaint → Investigation

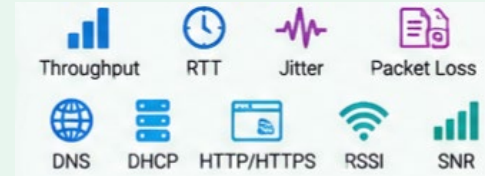


Needed
Detect & retain evidence before complaint

3 The Solution

A persistent “user” inside the Wi-Fi network

- W-QIP operates as a dedicated wireless client and continuously measures:



- Multiple probes send timestamped, location-aware measurements to a centralized cloud platform.
- Monitoring → Historical Analysis → Spatiotemporal Analytics → Diagnostic Support

Infrastructure monitoring shows how the network is operating; W-QIP adds evidence of how the Wi-Fi service is performing from the client side.

4 Target Market



Universities & Campuses
Large, distributed Wi-Fi environments



Enterprise Offices
Continuous workplace Wi-Fi assurance



System Integrators / Managed Service Providers
Client-side evidence for managed networks



Telecommunications / Managed Wi-Fi Operators
Distributed service-quality monitoring

5 Business Model



W-QIP Probe (Hardware)



Cloud Platform (Software)



Analytics / Diagnostic Services

- Potential B2B / B2B2B model
- Hardware deployment + recurring platform/service subscription
- Alternative routes: licensing | system integration | technology transfer | joint product development

6 Go-To-Market Strategy



1. VALIDATE
20 probes × 5 sites
TRL 5-6 → 7



2. PILOT
Targeted deployment with industry partners



3. CO-DEVELOP
Refine analytics, integration APIs & operational requirement



4. ADOPT
Campus / Enterprise / Managed Wi-Fi deployment



5. SCALE
System integrators, Service Provider and Tech-transfer partners