

NUS DEEP TECH START-UP SHOWCASE TEAMS BOOKLET



RUN
9

LIFT-OFF DAY

FEATURING 14 DEEP
TECH INNOVATIONS AND
TECHNOLOGIES

PROGRAMME SCHEDULE

8.45AM



Onsite Registration
(Physical, by invitation only)

9.30AM



Opening Speech
Associate Professor Benjamin Tee
Associate Vice President, NUS Enterprise

9.50AM



Team Pitching and Q&A

Run 9 Teams

- Circrete
- Softlabs
- MetaLivi
- Aquashield Solutions
- Insightic
- Picopoint Genomics
- CycloMeds
- EmerStat
- EigenSensor

GRIP Alumni

- ArmasTec™
- SafeCert
- WasteViz
- Curated Culture
- PharLyfe+

11:30AM



Networking Lunch
(Physical, by invitation only)

2.00PM



1-to-1 Networking Session

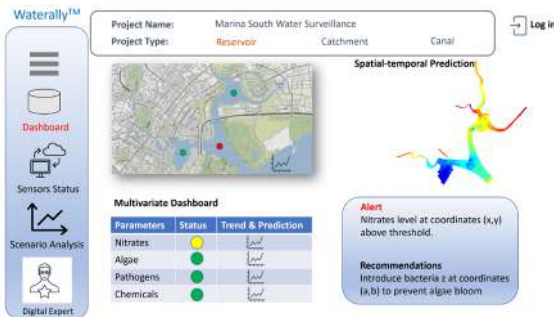
RUN 9 TEAMS

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Empowering Water Assurance through Actionable Insights

Aquashield Solutions offers an advanced water quality management platform to provide early warning, risk assessment and source tracking of hazardous contaminants. Over the past 20 years, we built and perfected complex models covering environmental, biological, chemical and other factors and hitherto untracked hazardous contaminants like PFAS.

Water utilities and regulators can now be warned of when, and where there will be contamination, whether it will be toxic or not, and where it is coming from, with a high degree of confidence and resolution. The result is low cost monitoring but huge savings in the cost of cleanups and the impact to human health.



Tong Xuneng
CEO



You Luhua
CTO



Ng Sing Hng
Chief Strategist



Zhang Jing Jie
Advisor



Karina Gin Yew Hoong
Advisor



Debashish Pal
Venture Architect



Stefan Bahnmuller
Commercial Champion



Yong Yoke Ping
Technology Manager

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Upcycle waste marine clay into durable green cement, decarbonize & reduce environmental damage

At Circrete, we aimed is to decarbonise the construction industry and reduce its environmental impact.

Our team of expert scientists and engineers revolutionise the carbon-intensive cement production process. Our Innovation produces durable green cement from upcycled local waste marine clay. It reduces the carbon footprint by up to 70% and transforms significant quantities of waste clay into a valuable resource compared to traditional cement production.



Tong Shanshan
CEO



Du Hongjian
Technical Advisor



Pang Sze Dai
CTO



Jerry Wang
Venture Architect



Alex Tay
Commercial Champion



Lee Pui Mun
Technology Manager

Improving lives of lymphedema patients for the long term

Lymphedema is the swelling of limbs largely caused by cancer treatments. For example, 30% of breast cancer survivors develop lymphedema. This condition is lifelong, progressive and debilitating, causing immobility, emotional & mental stress. To this day, there is no cure. There are only conventional therapies to manage the swelling.

Our patented solution, LIPITRAP™ is a game changer. It reverses swelling by improving lymphatic drainage and stops disease progression. In short, LIPITRAP™ improves patients' quality of life, giving hope to lymphedema sufferers.



Dr Veronique Angeli
Chief Scientist



Janice Yeo
COO



Deena Chauhan
CEO



Thiam Chung Hwee, Michael
CTO



Saw Biing Hwei
Venture Architect



Koh Phee-Wah
Commercial Champion



Lim Liting
Technology Manager

Reimagining EEG

Electroencephalography (EEG) machines provide important data on brain activity for the diagnosis and assessment of neurological conditions, particularly epilepsy. However, they are tedious to set up and uncomfortable for patients, limiting the case load and possibilities of long term monitoring. Patients are required to repeatedly spend long hours at hospitals for EEG monitoring during titration or medication changes and after events or interventions.

EigenSensor has developed an innovative EEG device and software that is dry, easily wearable and wireless while retaining clinical grade signal quality. Our system features faster in-clinic setup, remote monitoring, and monitoring over extended periods. It saves time and money for both hospitals and patients, while improving the standard of care.



Ng Shi Kiang
CEO



Goh Teck Lun
CTO



Debashish Pal
Venture Architect



Jason Lim
Commercial Champion



Lee Pui Mun
Technology Manager

Stop the Bleed, Save a Life!

Every year, almost 4 million people die from traumatic accidents, and bleeding is a major cause of these deaths. Commercial gauzes absorb a lot of blood before clotting leading to further blood loss, and they adhere to the wound, making things worse by causing more bleeding when they are removed.

EmerStat is the first non-adherent drug-free hemostatic device which clots blood within minutes and easily peels off from the wound. It does not absorb blood and resist wetting, even under high pressure, thus minimizing blood loss from the wound.



Apoorva Katragadda
COO



Vishnu Sunil
CEO



Yap Choon Hwai
Scientific Advisor



Debashish Pal
Venture Architect



Yong Yoke Ping
Technology Manager

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AI-Powered RegTech for Blockchain Innovation

Insightic is revolutionising digital asset compliance and risk analysis. Our regulatory intelligence platform not only streamlines license application evaluations but also identifies potential risks with our proprietary technologies. By leveraging Insightic, regulators and financial institutions now have access to an advanced suite of features designed to facilitate seamless compliance processes, empowering them to navigate the complexities of the evolving digital asset landscape with confidence to protect the economy and consumers.



Lu Shengliang
CEO



He Bingsheng
Chief Scientist



Ray Han Jianglei
CTO



Ong Zhi Yong
CMO



Kevin Leung
Venture Architect



Roni Eshett
Commercial Champion



Yuan Ziyang
Technology Manager

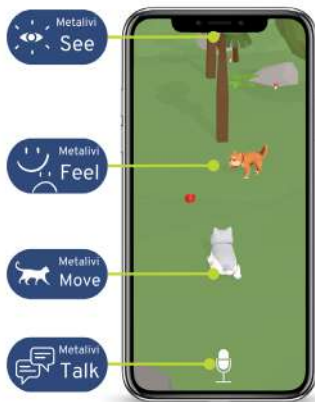
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METALIVI

AI-Driven Virtual Pets

At METALIVI, we channel our AI expertise to design emotionally-intelligent, remarkably lifelike virtual animals. Our exclusively developed technology merges advanced sensory and cognitive abilities, ushering in a new era of virtual companions exhibiting personalised interactivity that can display animal-like actions, and respond to a user's feelings intuitively and realistically.

MetaLivi is engineered to resonate with today's tech-savvy youth, who desire the companionship and responsibility a pet provides but find real-world pet care too expensive, time-consuming, or requires too much space. MetaLivi encapsulates the enchantment and duty of pet ownership in the convenience of a smart phone, striking the perfect chord between digital immersion, manageable obligation, and emotional connection.



Chen Yiwen
CEO | Co-founder



Liu Haofeng
CTO | Co-founder



Wang Zijian
CPO | Co-founder



Tan Jiayi
CMO | Co-founder



Cato Andre Gullichsen
Venture Architect



Francine Martindale
Commercial Champion



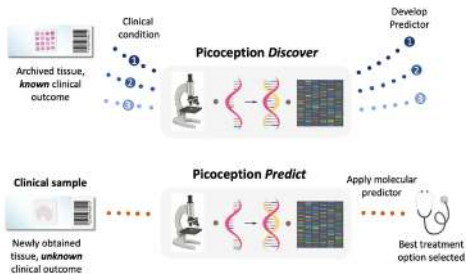
Novita Jong
Technology Manager

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Enhancing Patient Care with Predictive RNA Genomics

Picopoint Genomics helps doctors predict a patient's clinical outcome and treatment response, thus enabling precision medicine. We do this with our proprietary RNA sequencing platform - Picoception. Our advantage is the ability rapidly characterize gene expressions from very small tissue samples within the current pathology workflow. Picoception is disease agnostic and can be utilised for any clinical condition.



Dr Joshua Tay
Clinician-Scientist, Inventor



Dr Joseph Foley
Molecular Biologist, Inventor



Cyan Lee
Business Veteran



Teo Wei Keat
Lab Expert



Debashish Pal
Venture Architect



Karen Wai
Commercial Champion



Ang Hui Ying
Technology Manager

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Reinvent Your Touch

Softlabs pioneers solutions to overcome the limitations of standard VR controllers in training.

Our innovative haptic gloves boast a patent-pending technology, providing users with a realistic sense of touch, resulting in extremely immersive experiences that significantly boost training efficacy, simultaneously reducing error probability on the job. The gloves are constructed from soft, flexible materials for optimal safety and comfort. Our user-friendly software and hardware integration ensures that skills learnt are transferred quickly.

Softlabs is transforming the landscape of virtual training across various industries in an efficient, cost-effective, and remote-friendly manner.



Shaun Buxani
CTO



Joanne Lee
CMO



Saw Biing Huei
Venture Architect



Chong Chee Leong
Commercial Champion



Chia Mun Loong
Technology Manager

GRIP ALUMNI

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GRIP Alumni

Empower the human body

ArmaTec™ specialises in fabric-based exoskeletons. Our flagship, the AireLevate™, helps workers who routinely lift heavy loads by reducing the stress on their bodies without sacrificing their comfort and flexibility. Our proprietary and cost-effective, fabric technology reduces the back muscle load by close to 50% and is so comfortable that users will forget that they are wearing it.

We're launching our first paid deployments in June. Meanwhile, we're finalizing a partnership with a major healthcare to co-develop an AireLevate™ suit for nursing, followed by deployments in their hospitals.



Rainier Natividad
CEO



Serene Wong
COO



Raye Yeow
Advisor



Ignatius Rasiah
Advisor



Emily Duran
Advisor



Lim Hwee Tong
Advisor



Jerry Wang
Venture Architect



Chia Mun Loong
Technology Manager

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Curated Culture

GRIP Alumni

Unleashing the Power of Your Gut's Microbiome

Curated Culture has revolutionised the probiotic beverage market by providing customers with dairy-free and low-sugar choices like no other. Fueled by the desire to fill the void of truly healthy options, Curated Culture developed the nektrh™ technology, a breakthrough innovation born of a groundbreaking research conducted by food scientists at NUS Food Science & Technology. Committed to promoting gut health without compromising taste or quality, Curated Culture is dedicated to providing innovative and healthy beverage options.



Christian Eviston-Putsch
CEO | Co-Founder



Shermaine Heng
COO | Co-Founder



Sew Shu Wen
CTO | Co-Founder



Saw Biing Hwei
Venture Architect



Zhao Na
Technology Manager

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Empowerment, Dignity, Independence

80% of patients do not like injections or have blocked veins as the method of drug administration. At PharLyfe+, we overcome this challenge with our medicated oral films, which are placed inside patient's cheek to quickly send the medicine accurately and painlessly into the blood system. Many patients—the young, the old, as well as patients in hospice care —will enjoy a better quality of life. Several healthcare providers that we have spoken to are keen to use our films for their patients. This is a multibillion-dollar market for a new drug administration system to replace injections.



Tan Poh Leng
Business Lead



Chua Qi Shan
Clinical Lead



Chan Sui Ying
Technical Lead



Saw Biing Huei
Venture Architect



Ang Hui Ying
Technology Manager



GRIP Alumni

Enabling Manufacturers to tackle counterfeits

Spurious and counterfeit products are estimated to be a \$250+ billion market worldwide. These products pose a major threat to the people's health and have negative economic impact on businesses and countries.

SafeCert solves this issue with an end-to-end and extremely secure authentication system, using our proprietary IP and technology – “BlockForest”. It allows swift, secure and easy verification by stakeholders, including end consumers. “BlockForest” can handle the high volume of data involved in the authentication process without compromising security or speed.



Aditya Ranjan
CEO



Durvesh Satish Deshmukh
CTO



Bhojan Anand
Principal Advisor



Cato Gullichsen
Venture Architect



Eyoh Chih Hong
Technology Manager

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Waste Sorting AI as a service

WasteViz aims to increase recycling rates by ensuring its customers recycle appropriately.

WasteViz's first product, WasteCam™, is a smart add-on device that can be attached to any recycling bin and for any type of waste stream. Using an edge computer vision-based AI software pipeline, WasteCam™ analyses, classifies, and gives on-site feedback to users. A dashboard connected to the system allows our customers to monitor their waste management.

WasteCam™ is a non-intrusive and economical product designed to change consumer behaviour and provide necessary data to help our customers implement waste management plans efficiently and accurately.



Arka Maity
COO



Aurelie Birronne Tasine
CEO



Jayashree Chadalawada
CTO



Serene Tay
CFO



Cato Gullichsen
Venture Architect



Jonathan Tan
Technology Manager



THE FLAGSHIP INNOVATION PROGRAMME

THE FLAGSHIP INNOVATION PROGRAMME

By NUS Enterprise enabling NUS postgraduate students and researchers to develop commercially viable and investible deep tech start-ups.

ABOUT NUS GRIP

Launched in October 2018, the NUS Graduate Research Innovation Programme (NUS GRIP) is NUS Enterprise's flagship innovation programme.

Based on our extensive experience working with deep technology, the programme will provide step-by-step guidance to NUS postgraduate students and researchers to cultivate deep tech entrepreneurs, to transform the university's world-class research into their own deep tech start-ups.

Twice a year, teams are selected from the best and brightest NUS researchers and postgraduate students to equip them with entrepreneurial skills and experience.

For the duration of one year, teams will undergo a transformation journey through a series of workshops, mentorships, industry linkages and incubation support, to develop commercially viable and investible deep tech start-ups. NUS will invest up to S\$100,000 in start-ups demonstrating high commercial potential to accelerate their growth.



Find out more at
nus.edu.sg/grip



Connect with the teams
grip@nus.edu.sg



NUS ENTERPRISE

NUS Enterprise, the entrepreneurial arm of the National University of Singapore (NUS), plays a pivotal role in advancing innovation and entrepreneurship at NUS and beyond. It actively promotes entrepreneurship and cultivates global mind-sets and talents through the synergies of experiential entrepreneurial education, active industry partnerships, holistic entrepreneurship support and catalytic entrepreneurship outreach. Its initiatives and global connections support a range of entrepreneurial journeys and foster ecosystem building in new markets. These initiatives augment and complement the University's academic programmes and act as a unique bridge to industry well beyond Singapore's shores.



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