Fact Sheet A - Techblazer Awards and Winners

Most Promising Innovation Award Category
Recognises the innovation behind products or solutions developed by Singapore-registered companies. The product or solution must create outstanding impact on the way businesses operate or greatly enhance the quality of lives for end users. The companies should have fulfilled a marketplace need by developing a commercially viable business model around this innovative product or solution, which has the potential to be sustainable in the long run. They should also have carved out new markets, with high growth potential, for themselves through this innovative product or solution. Applications should have an operational Minimum Viable Product (MVP) to qualify.   Judging Criteria   • Promise of Innovation   • Stage of Innovation   • Go to Market

Award	Organisation	Product/Service
Gold	Accredify Pte Ltd	Accredify is a verification technology solutions provider that enables businesses to engage in trusted information exchange by creating, issuing, and managing verifiable data, identities, and documents. With a rise in AI-driven deep fake or fraudulent information, a new need has surfaced known as digital trust – a state where any receiver of information instantly knows that the data they have received can be trusted. Accredify is leading the way in digital trust by leveraging the blockchain to enable organisations to create and issue instantly verifiable digital documents that are traceable back to the source and verified with a QR code scan.
Silver	Augmentus Pte Ltd	Augmentus is a robotics software company that combines computer vision and AI to enable intelligent and adaptive robotics. Programming robots typically requires massive amounts of code, as well as programmers with very specific, in-demand skill sets to accomplish. This results in 75% of the lifetime costs of each robot being software and programming related. Augmentus patented technology combines computer vision with AI to eliminate the need for technical expertise and coding in robotics, thus dramatically reducing production downtime from weeks to minutes.
Bronze	Scantist Pte Ltd	Scantist is a software composition analysis tool that helps organizations with mitigating risks related to open-source software components used in their projects. By analysing both source code and binary projects, Scantist offers insight into open-source libraries, vulnerabilities, and ensures compliance with legal standards. Gain valuable insights into the open-source components employed in your software projects, empowering you to effectively manage security and compliance risks associated with open-source software. With Scantist, you can confidently: 1) Identify the open-source libraries in use; 2) Detect vulnerable libraries; 3) Ensure compliance with legal

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	Alchemy Foodtech Pte Ltd	Alchemy technology is designed to lower sugar, carbohydrate, and glycemic index of foods. Alchemy Fibre blends are patented, plant-based, and can be incorporated into different foods while maintaining taste satisfaction. Alchemy SweetFibre blends substitute sugar and combines Alchemy Fibre and sweeteners to provide the sweetness, texture, and solubility similar to sugar. For example, we helped achieved 50% sugar reduction in Subway's Chocolate Chip cookie, and high fibre, better chewy texture in Yamazaki China bread. Boon Tong Kee uses Alchemy Fibre to offer healthier chicken rice with benefits of brown rice and taste of white rice to their customers.

Carbon Zero Award Category

Recognises Singapore-registered companies that showcase tech-enabled projects, solutions and/or initiatives that are innovative and have made a measurable impact towards reducing carbon emissions. The projects should demonstrate innovative applications of technology that are also effectively integrated with business operations and processes.

Judging Criteria
- Innovativeness of Tech
- Impact on Carbon Emission

Award	Organisation	Product/Service
Gold	VFlowtech Pte Ltd	Introducing revolutionary PowerCube from VFlowtech- a modular, cluster-based design that provides an efficient energy storage solution at all operating conditions. Scalable for larger applications and boasting a lifespan of over 30 years, it guarantees consistent power delivery. Perfect for data centers and backup needs, it offers rapid response times. Our proprietary chemical mixture enables high-temperature operation without active cooling, making it ideal for tropical environments. Paired with our smart energy management system, Energy Cloud, you can dynamically balance supply and demand, stabilize grids, and optimize electricity bills. Future-ready with hourly electricity tariffs, it supports cost-effective EV charging with minimal infrastructure requirements, providing reliable and rapid charging experiences. Embrace the power of innovation for a greener, more sustainable energy future.
Special Mention	CapitaLand Group	CapitaLand is committed to achieving net zero carbon emissions in its office operations by leveraging common renewable energy source such as solar with a Hybrid Energy system that allows it to use the renewable energy directly for its technology equipment, lighting and air conditioning needs. CapitaLand also employs a network of energy management devices, including smart chargers, renewable energy controllers and inverters, to optimize its energy efficiency and minimize its carbon footprint. Furthermore, CapitaLand uses data analytics to create a dashboard that tracks, records, monitors and reports its energy consumption and sustainability performance, also helps to influence the behavior of office users and encourage them to reduce their energy usage.

Best Adoption Award Category

Recognises Singapore-registered companies, public sector organisations, non-governmental organisations and social sector organisations that have adopted products or solutions by leveraging on emerging technologies. Solutions could have been co-developed jointly with technology companies to digitally transform their businesses, resulting in greater competitive advantage, operational efficiency, enhanced productivity and improved citizen or customer experiences. This award is given to a User Organisation, with possible mention of the technology company and solution(s) used. Submissions are open to User Organisations. Tech companies who wish to participate should jointly submit the application with a user organisation.

Judging Criteria
- Adopting the Innovation
- Innovativeness of Solution
- Business Impact and Value

Award	Organisation	Product/Service
Public	Central Provident Fund (CPF) Board	GovCash was developed to replace cheques for Singaporeans who are unable to use direct bank crediting to receive Government payments. Designed to be simple, intuitive, and inclusive, GovCash allows users who are without bank accounts or smartphones to receive their payouts securely using the SingPass Facial Verification technology adopted at over 500 ATMs located across Singapore. For more IT savvy users, they can also use the scan-and-pay function to pay merchants or transfer the balances using the LifeSG mobile app. As such, GovCash caters to the needs of citizens with varying preferences and abilities.
Enterprise	City Developments Limited	Property sales are regulated due to the quantum and potential of money laundering. A complex and time-consuming process, it involves multiple parties and numerous exchanges of documents. There was a shortage of digital platforms to optimize this multifaceted process, so CDL designed CDL Homes Sales (CHS). During the pandemic, safe-distancing measures restricted homebuyers from physically being able to view and purchase homes. Pivoting quickly, CDL re-imagined the entire property-purchase process by streamlining the balloting and buying process for our homebuyers and property agencies, leveraging digital technologies like mobility, onsite and remote digital signature and enhancing buyer experiences for satellite sales
NGO	Viriya Community Services	VCS is the first mover in the social service sector in developing Viriya IntelliBot to digitalise the case management process. Speech-to-Text audio transcripts are piped into an artificial intelligence machine with text mining function to generate topics / sentiment analysis. Information is organised based on the Viriya Framework, established by VCS, that consists of proprietary pre-defined library of key identifiers grouped into 3 foundational domains commonly adopted in clinical practice. These are visualised in a Dashboard to assist the writing of case notes and case conceptualisation, leading to competency development of social work practitioners (SWPs) and improved client facing time.

SME	HSC Pipeline Engineering Pte Ltd	For 30 years, HSC has been building critical infrastructural pipelines for Singapore. To enhance management of civil engineering projects, HSC has implemented a subsurface utility mapping system comprising a vehicle-mounted Multi-Channel GPR, GNSS RTK antenna, and IMU. Effectively "x-raying" the subsurface at scale and non-destructively detecting where everything is buried, HSC now digs exactly where there is space to lay new utilities, as well as more strategically exposes existing utilities for verification and maintenance. We see obstructions underground and plan for them long before our teams head out, saving time, money, effort, and the environment. HSC trailblazes with these technologies

Student Techblazer Award Category

Recognises innovative ideas with commercialisation potential developed by students from Singapore schools and Post-Secondary Education Institutions (PSEIs). Solutions must use emerging technologies to fulfil a marketplace need or have potential to carve out new markets. The submission should also demonstrate entrepreneurship through business plans. This award category aims to discover and encourage the next generation of innovators.

Judging Criteria
- Innovativeness of Idea
- Market Potential and Commercialisation Opportunity
- Project Presentation will be required if you are shortlisted

Award	Group Name	Product/Service
Gold	Flint Paper Battery	As the world moves toward a more sustainable & renewable future, we face the challenge that the batteries we use right now are not renewable themselves. That's because current battery technologies are highly toxic to the environment and are limited by their design in terms of safety and cost.
Silver	Trident	Trident is a two pronged approach for the detection of renal diseases. We use a lateral flow assay that can detect different parameters such as pH, albumin, ketone, blood, bile etc. The results of these indicators will give users a brief indication whether they are suffering from any renal diseases. We have also devised a completely mobile application that allows users to take a photo of their results. It uses a rule-based model in machine learning to translate combinations of parameters to disease predictions. Users can input additional parameters such as the smell of their urine that can more accurately determine what renal diseases, they are susceptible of having.
Bronze	Singapore University of Technology and Design	Greenairy's innovative technology (active air phytoremediation) offers a sustainable, beautiful and effective solution to indoor air pollution that surpasses traditional air purifiers in removing toxic VOC gasses and carbon dioxide. Our filter-less, modular, air-purifying plant towers remove dust, toxic VOC gases, and carbon dioxide from the air, while providing a mood-boosting and beautiful addition to any space.

		By supercharging the air purification capability of plants by >10x, users get the air purifying equivalent of 300 plants with 1 tower. We do this by maintaining certain plants in a controlled environment based on our 2 years of research. Air pollution is a major environmental and public health concern associated with over 7 million premature deaths / 7.7% of the global mortality yearly (WHO). Our working prototype has shown a 50% reduction of toxic gasses and 20% reduction of carbon dioxide in our office pilots, which will improve as our algorithm improves.
	shmid.co	Our Fire Prevention System utilizes the off-the-shelf low cost and compact Raspberry Pi Pico W Microcontroller Board while leveraging on the accessibility of internet and Phython Coding to allow easy deployment and control for the user to monitor and prevent possible fire caused by overheating or overcharging of electrical devices. It also provides an automatic cut off function so as to prevent the charger from continuously charging the battery despite it is fully charge. This helps to preserve the battery's life, prevent fire hazards as well as save electricity which indirectly helps to reduce the amount of Carbon Emission which supports the Singapore Green Plan 2030.