SG:D Techblazer Award Winners

Category/Company	Product/ Solution
Most Promising Innovation (Gold) **Hummingbird Bioscience Pte Ltd** Hummingbird Bioscience is an innovative clinical-stage biotech company that harnesses the latest advances in systems biology and data science to better understand and solve the underlying causes of disease and guide development of our therapeutics. Our highly experienced teams in Singapore and the US span antibody discovery, pharmacology and production, and clinical development.	**Rational Antibody Discovery (RAD) platform** Hummingbird's **RAD** platform is a game-changing platform used for drug discovery and development. It is founded on the principles of systems biology, which studies the entire biological system of an animal or human, and data science (multi-omics, big data, computing, AI) to make predictions of how and where in the system to target to get the best optimal outcome from drug treatment.
Most Promising Innovation (Silver) **Ideatory Pte. Ltd** Impress is a Singapore based HR tech company. Its AI-powered platforms allow large enterprises to run their recruitment and HR processes like recruitment, onboarding, promotions, learning and internal mobility autonomously and	**impress.ai** Impress' largest solution is an AI platform for enterprise recruitment teams, called **impress.ai**. It allows the creation of autonomous recruitment workflows that use conversational bots to conduct competency-based structured interviews using techniques from Industrial-Organizational

accurately. We have booked sales of several million dollars from 50+ enterprise clients like DBS, ADB, Singtel, CapitaLand and the Singapore Government since inception, just over 3 years ago.

Psychology. The platform interviews, engage, and shortlists candidates at scale, 24/7, and helps to fight human bias by hiding biasing information from human reviewers. It delivers 75% improvement in hiring efficiency and an improvement in employee performance and retention rates.

Most Promising Innovation (Silver)

Nextbillion.ai Pte Ltd

Our mission is to be the world's most hyperlocal AI company. The challenges in AI-driven areas like mapping, NLP, content moderation and facial-recognition are becoming bigger globally, due to hyperlocal nuances, differing languages and geospatial infrastructure challenges. NB.ai intends to bridge this gap by building deeptech enterprise AI solutions.

Nextbillionmaps

Nextbillionmaps, is an AI-powered total mapping solution that provides enterprises with customisable features like routing, navigation, direction and distance matrix. It uses AI tooling capabilities that support map data curation and maintenance. It uses open-source data combined with proprietary client data. This makes solutions for the logistics, transport, ride-hailing, delivery and e-commerce industry efficient and affordable.

Nextbillionai's map APIs help find the best ETAs, find precise pick and drop locations and the best route for the navigation. It also provides weather updates and other hyperlocal nuances. The solution can also be tailor-made for specific business needs, based on their data and geography.

Category/Company	Product/ Solution
Most Promising Innovation (Bronze) **Asia Wealth Platform Pte. Ltd.** StashAway is a digital wealth management platform that offers investment and cash management portfolios for both retail and accredited investors. Its technology delivers automated, personalised portfolio management for each client's individual portfolios. It offers global growth-oriented investment portfolios targeting different levels of risk, a yield-focused Income Portfolio, and StashAway Simple, a straightforward cash management solution. 	**StashAway** **StashAway** creates transparent investment products that are structured in client's best interests, by creating a sophisticated investment framework, previously only available to institutional investors, to the mass market. **StashAway** delivers this through a seamless digital experience, allowing customers 24/7 access to their financial data. **StashAway** utilises Asia Wealth's proprietary model Economic-Regime Asset Allocation (ERAA©, a data-driven adaptive model that combines leading economic and financial theory to create an intelligent investment framework to support wealth managers to digitise and move away from traditional wealth management methods.
Category/Company	**Product/ Solution**
Best Adoption (Public Sector) **Government Technology Agency of Singapore (GovTech)** GovTech is a statutory board of the Singapore Government, under the Prime Minister's Office. We are driven by the need to engineer digital government to make lives better. We effectively design	**SafeEntry** **SafeEntry** is a national digital check-in system developed by the Government Technology Agency of Singapore (GovTech), which logs an individual's entry into a venue. Methods of SafeEntry:

and build solutions that make a difference to our citizens and businesses. We use technology to tackle everyday problems of transport, housing, security, healthcare, and the environment alongside our partner agencies.

• **SafeEntry** QR – users can easily scan the QR code at locations that require SafeEntry check-ins. From there, they will be redirected to a browser page to key in their personal particulars and complete their check-in.

• **SafeEntry** with SingPass Mobile (SPM) – integrated into the widely-used SPM app as a means to streamline the check-in process. When authenticating through SingPass, users need not enter their details manually. Users have the option of scanning the QR code via the in-app scanner or selecting from a list of nearby locations to complete the check-in process.

• **SafeEntry** NRIC – An alternative technological solution to include the elderly and young without smartphones in contact tracing efforts. Users can simply opt to have their identification cards scanned at the entrances of locations.

Best Adoption (Public Sector) – Special Mention

Association for Persons with Special Needs (APSN)

Established in 1976, Association for Persons with Special Needs (APSN) is a social service agency providing special education for persons with mild intellectual disability (IQ 50-70). Today, APSN operates four Special Education (SPED) Schools (APSN Chaoyang School, APSN Katong School, APSN Tanglin School and APSN Delta Senior

Mixed Reality (M.R.) Living Room

The **Mixed Reality (M.R.) Living Room** recreates a typical HDB and uses immersive and interactive multi-media to create a virtual environment. APSN pupils would then be able to transit effortlessly to the real home environment after experiencing and practising in the virtual scenario in the classroom. This provides the pupils with a safe and authentic environment to practise essential skills.

School) for students aged 7 to 21, an APSN Student Care Centre for children aged 7 to 18 and an APSN Centre for Adults for persons aged 16 and older, benefiting over 1,200 beneficiaries each year.

The APSN Schools and Centre adopt a holistic approach in its curriculum, comprising academic, vocational and social skills, which are important for open employment and lifelong learning. APSN seeks to enable persons with special needs to be active contributors of the society and is committed to inspire and build capabilities of its partners and community to lead and advocate an inclusive society.

To date, APSN's growing database has more than 5,000 beneficiaries, comprising students, trainees and alumni. The Association is constantly expanding its network to reach out to and understand the needs of its members to better support them.

The **M.R. Living Room** provides a robust learning environment and its outcomes are aligned with the SPED (Special Education) framework of Living, Learning and Working. Students showed great improvements in lesson engagement (Learning), personal hygiene and dressing (Living) and community safety knowledge (Working). It also promotes opportunities for self-directed learning as more students could be engaged at the same time.

Best Adoption (Enterprise)	
NTUC Income Insurance Cooperative Limited	**SNACK** by Income
Income was founded in 1970 with a simple mission in mind – to make essential insurance accessible and affordable for people in Singapore, regardless of their financial standing. Today, we're a leader in life, health, and general insurance, with more than two million people in Singapore looking to us for trusted advice and solutions when they make their most important financial decisions.	Providing an exceptional & versatile pay-per-trip micro premium and accumulative coverage proposition, Income launched **SNACK** by Income in June 2020, offering Term Life, Personal Accident insurance, & Critical Illness protection to **SNACK** users, in bite-sized portions which that stack up over time. With **SNACK**, the insured gradually stacks his coverage of choice by paying micro-premiums ($0.30, $0.50 or $0.70) and accumulating micro-policies that offer a specified sum assured that are commensurate with the premiums.
	The insured decides when and how frequent premiums are paid by linking payment to lifestyle triggers on the **SNACK** app, such as ordering food, exercising, taking public transport or using their VISA credit cards to pay for all kinds of purchases such as groceries and restaurant bills. Each micro-policy, issued when a micro-premium is paid, covers the insured for 360 days. **SNACK** offers a way for people to build & manage their insurance via small steps that add up over time.
Best Adoption (SME) **Hong Ye Group Pte Ltd**	**Smart iClean App**

Believing in the philosophy of development through innovation and automation solutions, Hong Ye Group has built a decade of experience in the manpower employment and cleaning services & maintenance industries. With over 400 employees and a focus on customised corporate solutions, we have been identified as the trusted cleaning and manpower partner for multiple 5-star hotels and commercial real estate organisations.

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HONG YE GROUP PTE LTD

The **Smart iClean App** enables its user to collect toilet feedbacks and monitor cleaners' performance and attendance with the use feedback system, IOT and automation solution.

The app makes it easy to manage cleaners, supervisors, ad-hoc tasks, periodic tasks, and records. Admin can input a set of comprehensive information per cleaner, which will all be digitally recorded and stored in reliable and safe cloud space. All data can be managed and monitored with just one click.

Best Adoption (SME) – Special Mention

YJP Surveyors Pte Ltd

YJP Surveyors Pte Ltd specialises in providing accurate and cost competitive services in the field of surveying and environmental measurements.

YJP maintains a competitive edge by utilising a combination of investment in advance technology, external/in-house training and a can-do mindset

Aerial Laser Scanning

Traditional survey and mapping are now being replaced by **aerial laser scanning** using a custom commercial drone, carrying a LIDAR* payload to map an area. What takes a team 7 days can be performed within one day.

It is not just an upgrade to remain competitive in the industry, it is a committed mindset change in changing its way of working and team culture to sustain and adopt aerial unmanned survey systems as part of our workflow.

*LIDAR (Light Detection and Ranging) is a remote sensing method used to examine the surface of the Earth.]

Category/Company	Product/ Solution
Student Techblazer (Gold) **National University of Singapore / Augmentus Platform** Augmentus is an AI-robotics software company that offers the first no-code and fully-integrated robot programming platform. We have partnerships with the world's leading robot manufacturers and automation providers to empower manufacturers to recoup ROI faster by lowering time, cost and skill barriers in robotic automation. Augmentus ushers in a new era of human-machine interface, enabling 10X faster system deployments and saving thousands of automation cost within weeks of integration. 	**Augmentus Platform** **Augmentus** offers a one-stop and code-free robot programming platform that enables non-technical users to program industrial and collaborative robots with high speed and submillimeter accuracy. The Augmentus platform is a mobile application with an intuitive mixed reality interface that allows users to program robotics arms without the need for coding and CAD files. Users simply draw robot paths through a live video feed on a mobile device and the robot will move accordingly with submillimeter accuracy.

Student Techblazer (Silver) **St. Andrew's Junior College / Newton's Meter** Newton's Meter is an artificial intelligence powered SOS startup that facilitates the saving of lives. It comes in both consumer and industrial iterations, encompassing myriad use cases. 	**Newton's Meter** Newton's Meter is an AI-powered device that "automatically" sends S.O.S message with real-time GPS to 10 phone numbers within seconds of any mishap (be it at home or outside). This results in fast mobilizations of family, friends, police & paramedics onsite and facilitate the saving of life of the user. The Newton's Meter functions globally anywhere in the world. Newton's Meter is currently being manufactured in Singapore under TUV supervision. It is certified with TUV NRTL, CE & FCC Certifications (U/L Singapore).
Student Techblazer (Bronze) **Nanyang Polytechnic / Team Reecloud** Team Reecloud is a group of students from Nanyang Polytechnic, consisting of Ryan Ho, Eugene Foo, Milton Sim and Elijah Chia. We build solutions that challenge the traditional and we believe that people deserve the rights to have access to quality tech regardless of who they are.	**Automated AI Review With Human Workflow** **Automated AI Review With Human Workflow** is an event-driven end-to-end solution, making form approval a breeze. The system is able to handle from the upload of the form, all the way, to any process without any human intervention. The key features of our solution encompasses the usage of Optical Character Recognition (OCR) and Artificial Intelligence (AI) that automate the approval of the physical and online form requests. Besides inputting datasets in CSV, the machine learning

	model can also be incrementally trained with new inputs from human reviewers through the implementation of a human review workflow. It utilises AWS serverless services, and the architecture is designed to be fault-tolerant and easily scalable.
	It is estimated that the cost of processing each form is <$1.
Student Techblazer (Bronze) **Singapore Management University / Fluidlytix** Founded in 2019, Fluidlytix has been making steady progress in commercialising their product in the Singapore market, through the multiple pilot projects installed in hotels and manufacturing facilities. **FLUIDLYTIX**	**Fluidlytix WAVE Valve** FluidLytix WAVE Valve helps to reduce rising costs of water for all businesses. It is a specially designed valve that compresses accumulated air in the water-line, which results in the following effects: 1) The reduction of water usage of up to 3-6% 2) Up to a 30% reduction in water usage costs