

ANNEX B-1: EXAMPLES FOR BUDGET 2022 SPEECH

Example	Description
B: Moving Forward Together	
Biopharmaceutical New Technologies (BioNTech)	<p>Biopharmaceutical New Technologies (BioNTech) is a next-generation immunotherapy company pioneering novel therapies for cancer and other serious diseases. The company exploits a wide array of computational discovery and therapeutic drug platforms for the rapid development of novel biopharmaceuticals. Its portfolio of oncology product candidates includes individualised and off-the-shelf mRNA-based therapies, innovative chimeric antigen receptor T cells, bi-specific checkpoint immuno-modulators, targeted cancer antibodies, and small molecules. With its deep expertise in mRNA vaccine development and in-house manufacturing capabilities, BioNTech is developing multiple mRNA vaccine candidates for a range of infectious diseases alongside its diverse oncology pipeline—including the first COVID-19 vaccine approved by the US Food and Drug Administration (FDA).</p> <p>In line with BioNTech’s mission to build a global immunotherapy company, the company will expand its footprint to Asia with the establishment of its Regional Headquarters for Southeast Asia in Singapore. BioNTech also plans to establish a fully integrated mRNA manufacturing facility in Singapore. The new facility will provide regional and global supply capacity for BioNTech’s growing pipeline of mRNA-based product candidates, as well as rapid-response production capability for Southeast Asia to address potential pandemic threats.</p> <p>The mRNA manufacturing facility will leverage cutting-edge manufacturing and digital infrastructure. It will be equipped to produce a range of novel mRNA vaccines and therapeutics for infectious diseases and cancer. The envisioned site will bring highly-automated and end-to-end mRNA production capabilities across drug substance, drug product, and fill-and-finish, with an estimated annual capacity of several hundred million doses of mRNA-based vaccines (depending on the specific vaccine).</p>
C: Invest in New Capabilities	
Sanwa-Intec (Asia) Pte Ltd (Sanwa-Intec)	<p><u><i>Make Innovation Pervasive</i></u></p> <p>Sanwa-Intec specialises in plastic moulding module assembly for automotive and electrical industries.</p>

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	<p>Since 2015, Sanwa-Intec has been working closely with Nanyang Polytechnic's (NYP) Automation and Robotics Innovation Centre (ARiC) to develop robotics and automation solutions, ranging from raw material preparation to manufacturing and testing. Through the partnership with ARiC, Sanwa-Intec was able to develop a robotic end-of-arm tool that can emulate an operator's handling of raw materials and finished products at high temperatures, replacing the need for a human operator to manually handle the materials. The robotic arm increased Sanwa-Intec's production volume by 1.5 times, while reducing overall energy consumption.</p> <p>In September 2019, Sanwa-Intec also started working with Iplast 4.0 (the company's digitalisation partner and advisor) and ARiC to revamp the company's warehouse. After nearly six months of planning, the warehouse was renovated and transformed into an automated manufacturing cell with a centralised control room. This room has a control tower with digital monitors that display the real-time operation data of each machine. With this data, employees can visually understand and better optimise the daily performance of the company's processes.</p> <p>Through the partnership, Nanyang Polytechnic's students were also able to work alongside experienced staff on projects and acquire industry-relevant skills. Some students have also secured full-time jobs at Sanwa-Intec after successfully completing their student internships.</p>
<p>Ms Alysia Ong (Featured employee of Sanwa-Intec)</p>	<p><u><i>Make Innovation Pervasive</i></u></p> <p>Alysia joined Sanwa-Intec in June 2021, after graduating with a Diploma in Digital and Precision Engineering from Nanyang Polytechnic (NYP) in May 2021.</p> <p>Alysia is no stranger to Sanwa-Intec. During the course of her diploma, she did her six-month internship at the company, and was offered a full-time role after graduation.</p> <p>Today, Alysia is an automation engineer. She looks after machine operations, monitors the automation process, and facilitates manufacturing efficiency while maintaining high product quality.</p> <p>Alysia believes that her training at NYP prepared her well for her role and is grateful for the many opportunities given by Sanwa-Intec to develop her skills in becoming a competent engineer.</p>
<p>Automation and Robotics Innovation Centre (ARiC)</p>	<p><u><i>Make Innovation Pervasive</i></u></p> <p>Nanyang Polytechnic's (NYP) Automation and Robotics Innovation Centre (ARiC) is a Centre of Excellence for Automation & Robotics</p>

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	<p>Technology, established jointly by the Economic Development Board and NYP in 2016.</p> <p>The ARiC brings manufacturers, NYP staff, and engineers together to innovate and test-bed solutions, and champion the adoption of advanced technologies, including simulation, industrial networking, smart sensing, and collaborative robotics for smart manufacturing.</p> <p>At the ARiC, NYP’s lecturers and students work alongside SMEs to help identify and enhance existing work processes through automation and robotics. They then co-develop and deploy these solutions, to help companies increase their productivity and create higher value-added jobs for their workforce.</p>
<p>Speco Singapore Pte Ltd (Speco)</p>	<p><u><i>Better Skills-Matching</i></u></p> <p>In 2017, Speco was founded as Spic & Span Pte Ltd—a social enterprise that offered housekeeping and cleaning services to provide stable jobs to marginalised Singaporeans, including ex-offenders, persons with disabilities, and single parents. The company has partnered with 91 Social Service Agencies to train, upskill, and employ over 300 individuals, and has a strong focus on inclusive hiring as part of company culture.</p> <p>Speco has a strong partnership with the Building Construction and Timber Industries Employees’ Union (BATU). BATU has helped Speco to be a progressive employer that adopts good employment practices, such as stipulating a retirement age at 65, providing family care leave, and extending social benefits to employees by sponsoring NTUC membership fees.</p> <p>Since 2017, Speco has been investing in new productivity tools and adopting job redesign solutions to make work easier and safer for its employees, such as the use of advanced cleaning technologies to reach higher areas and cover bigger areas, as well as electrostatic machines for infection control and disinfection. The company recognises that improving employees’ productivity gives them greater opportunities to earn higher wages. With the support of the Company Training Committee (CTC), a collaboration between NTUC and Speco, the company was able to upskill its employees towards a specialist career path, where new application technologies and systems were adopted, ultimately allowing workers to receive higher wages.</p>
<p>Mr Shamsul Nurhakim Bin Abdul Jamal Tay (Featured employee of Speco)</p>	<p><u><i>Better Skills-Matching</i></u></p> <p>Shamsul joined Speco in June 2020 as an ITE graduate and enrolled in the Work-Study Programme at Republic Polytechnic. His Diploma in Applied Science (Environmental Services and</p>

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	<p>Management) was sponsored by Speco as part of the company’s efforts to groom the next generation of skilled workers.</p> <p>Aside from the Diploma, which he completed in October 2021, the Company Training Committee (CTC) collaboration between NTUC and Speco helped him to upskill in Environmental Infection Control and Management, as well as advanced manufacturing and robotics. Shamsul is now better equipped to do well in the workforce.</p>
Mr Manokaran S/O R Muthuveerappan	<p><u>Support for Mid-Career Workers</u></p> <p>Mr Manokaran was previously working as an Events Manager. The restrictions imposed on events and gatherings due to COVID-19 raised concerns about his job security. Despite his initial apprehension, he decided to take a leap of faith and venture into digital marketing.</p> <p>Mr Manokaran decided to leave his job and joined Unisoft Infotech Pte Ltd, an IT business solutions company. His new role as a digital marketing manager is vastly different from his previous job. The Career Conversion Programme (CCP) for Digital Advertising Professionals helped Mr Manokaran transition into his current role, where he designs and executes marketing projects and campaigns. The CCP provided on-the-job training and coursework to build his marketing foundation with relevant hands-on experience.</p> <p>Despite being a mature worker, the CCP helped Mr Manokaran to quickly adapt to the new work environment and learn the company’s digital solutions.</p>
H: Conclusion	
Mdm Sim Soo Wee	<p>Mdm Sim was around seven years old when Singapore fell to the Japanese. Her father was taken away by the Japanese troops and never returned—presumably killed during Sook Ching. Her mother died soon after, and Mdm Sim and her sister were taken in and cared for by their aunt.</p> <p>Mdm Sim vividly remembers the hardships of war, such as having to pick up food scraps and collecting grains that fell out of coolies’ rice sacks.</p> <p>Despite the hardships she went through, Mdm Sim takes it all in her stride and is always open to sharing her experiences and stories with the younger generation. From our interactions with Mdm Sim, she is spritely and good-spirited, and grateful to her aunt. This is a testament to her resilience.</p>

