



TOWARDS SUSTAINABLE AND CLIMATE-RESILIENT CITIES

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To commemorate Earth Day today, we take a moment to remember the importance of a clean environment and safeguarding it from harm. In this edition, we look further into the increasing importance of robots in keeping our environment clean, and throw the spotlight on solutions from SoftBank Robotics.

Robots Take up the Fight Against Infection

SoftBank Robotics shares how their robotic solutions provide better productivity and effectiveness in the commercial cleaning industry.

This pandemic has turned the spotlight on the use of AI-enabled robots for the cleaning of offices, factories and public spaces to raise hygiene standards and protect the well-being of the community. To keep up with the demands brought on by the pandemic, improvements had to be made to improve the robots' 3D mapping and location awareness capabilities to enable them to follow more precise routes, increase efficiency and reduce resource consumption.



Whiz Gambit

Whiz is a product of SoftBank Robotics. Gambit is a product of Avalon Robotics, a joint venture with SoftBank Robotics Group.

SoftBank Robotics Group has led the way with Whiz, an autonomous floor-care robot programmed to perform indoor navigation and thorough vacuum cleaning. Efficient and cost-effective, Whiz is easy to set up and can detect and avoid obstacles such as human beings, glass walls and steps via multiple built-in sensors. In addition, Whiz can cover a large area and be controlled remotely. In partnership with Avalon SteriTech, an innovative disinfectant spraying device named Gambit was developed specifically for Whiz, allowing the combined approach to clean and disinfect areas in one go. Using approved disinfectants, Whiz Gambit applies unique dry-mist technology to generate <10 micron particles to uniformly bio-decontaminate target areas. SoftBank Robotics continues to innovate and customise the robot and add-ons, so that it stays ahead in catering to evolving needs.

Read the full article [here](#).

This article is sponsored by SoftBank Robotics Group.

Note: NEA recommends that the application of chemical disinfectant by handheld misters and electrostatic sprayers be used to supplement a wipe-down. Click [here](#) for more information on disinfection guidelines.

About SoftBank Robotics



SoftBank Robotics is a global leader in robotics solutions. Rapidly expanding worldwide, SoftBank Robotics is constantly exploring and commercialising all robotics solutions that help make people's lives easier, safer, more connected, and more extraordinary, and offers innovative applications relevant in the fields of retail, tourism, healthcare, finance and education. There are currently over 35,000 SoftBank Robotics robots—Pepper and NAO—used in more than 70 countries globally.

What's On at NEA

Here's a snapshot of the projects happening at National Environment Agency (NEA), Singapore, the organiser of CleanEnviro Summit Singapore.

NEA Grant Call



NEA has partnered Enterprise Singapore to launch a Grant Call, seeking solutions that will automate the collection and pre-processing of soiled crockery for centralised dishwashing (CDW).

Although tray collection is automated at some hawker centres, food courts and F&B establishments in Singapore, the design of each Automated Tray Return System differs, and substantial manpower is still required to pre-process the crockery for CDW, such as sorting and stacking crockery and cutlery.

We are seeking ideas that can raise productivity for the collection and pre-processing of soiled crockery, for both offsite and onsite CDW at hawker centres, food courts and F&B establishments. Up to 80% co-funding support is available to fast-track the development of your solution! The deadline for submission is on 5 May 2021. Learn more [here](#).

Autonomous Environmental Service Vehicles



Photo Credit: National Environment Agency

Did you know that proof-of-concept trials for **Autonomous Environmental Service Vehicles** for road cleaning were launched earlier this year? This initiative is part of NEA's **Environmental Robotics Programme**, and continual research and development efforts to optimise resources, drive innovation, push technology adoption, and improve productivity across the Environment Services industry.

NEA-Industry Scholarship for Environmental Services

Are you an **#EnvironmentalServices** (ES) company in Singapore looking for young talent? Or know someone with a keen interest to forge their **#CareerInEnvironmentalServices**? If you are either, the NEA-Industry Scholarship is for you. Here are testimonials from a scholar and an ES company on the scholarship programme

“I think it is a fantastic idea by National Environment Agency to initiate this scholarship programme. It definitely gives a preview of the industry to the younger generation of scholars. We are delighted to select a candidate, and we will continue to support this initiative and provide a future stream of scholars for this industry.”

Mr Milton Ng
Chief Operating Officer
808 Super Waste Management Pte Ltd

“I admire how the participating companies help the cleaners and waste management workers. They acknowledge the challenges that the cleaners face and try to make it easier for them. I look forward to working in the industry after receiving this scholarship.”

Mr Muhammad Anaqi Bin Harjuna
HNitec in Mechanical Engineering
ITE College Central



For more information, click [here](#).

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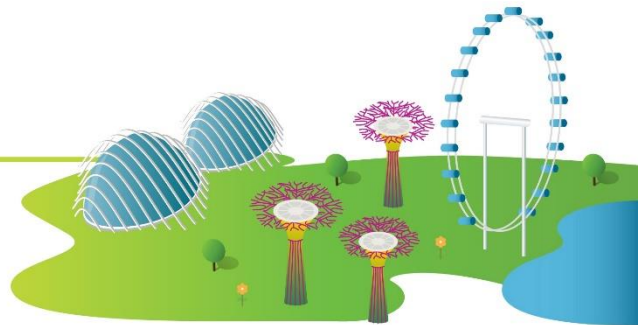
Exhibitor

City Solutions Singapore Expo is an integrated expo on environment, water and cities that allows exhibitors to showcase the latest innovations. It is jointly organised with the World Cities Summit and Singapore International Water Week.

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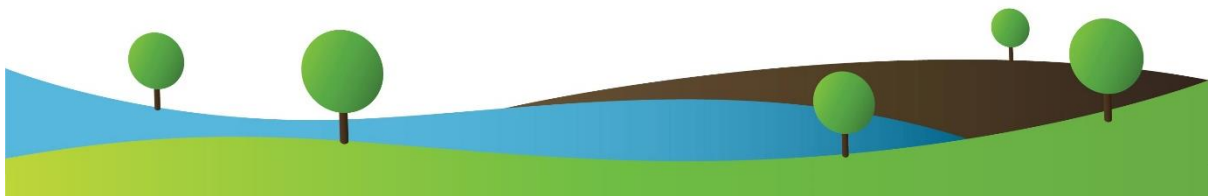
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