



CASE STUDY

RS FACILITIES SERVICES



RS Facilities Services Pte Ltd

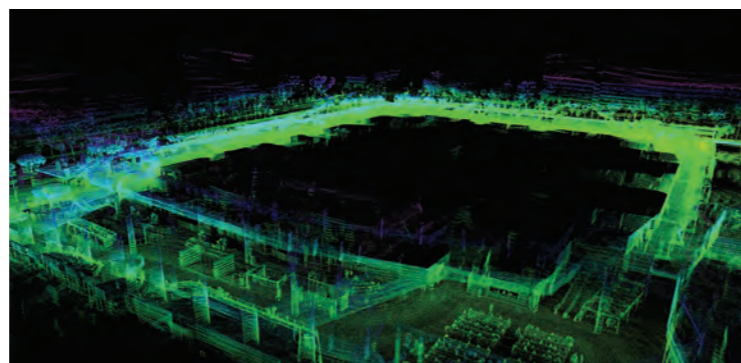
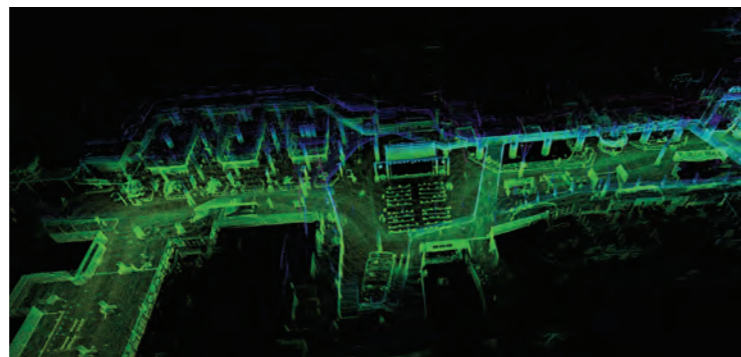


LIONSBOT

Forward-thinking cleaning

MANAGING 121,600 M² OF CLEANING AUTONOMOUSLY

Established in 2013, **RS Facilities Services** provides cleaning services to public and private organisations including Our Tampines Hub (deployment of R12 Rex Scrub), Trendspace (deployment of LeoScrub) and Wisma Geylang Serai (deployment of R3 Scrub). Today, RS Facilities Services is proud to have a proven track record of excellence backed by multiple award certificates.



A 3D map of the enormous compound generated by the Rex

One of RS Facilities Services' largest client is Our Tampines Hub (OTH), Singapore's largest integrated community and lifestyle hub. With an immense floor area of 121,600 m² housing a football pitch, a multi-purpose sports hall, and over 100 retail stores among many other facilities, the hub is one of the most challenging projects to maintain.



AUTONOMY- ENHANCED CAPABILITIES

THE SOLUTION

RS Facilities Services partnered with LionsBot to help manage the issues they were facing. By using autonomous cleaning robots, RS Facilities Services were able to bolster the capabilities of their team by deploying the robots to manage the time-consuming, repetitive, and large-scale task of floor cleaning.

There were 3 main factors considered to field the right robot for this task:

1. the huge area required to be cleaned
2. the limited amount of time available for cleaning and
3. the efficiency and effectiveness of the cleaning.

The Rex Scrub was selected as the best robot for the job. Designed to clean large areas quickly while producing high-quality results, the Rex is also equipped with 3D lidar, which delivers better localisation, enabling greater cleaning accuracy. This allowed the cleaning professionals to focus on trickier, high-value tasks such as disinfecting, sanitising, deep cleaning, and dealing with reactive issues.



THE SPECS AND RESULTS



8-10 HRS

RUNTIME COVERING 2 SHIFTS

Thanks to its long battery life of 8-10 hours, the Rex Scrub can be operated for 2 shifts in a row before needing to be recharged. Consequently, it has managed to save at least 2 hours in manpower operations every day.



40,320 M²

MAXIMUM COVERAGE

Being able to clean up to 40,320 m² on a single charge, the Rex Scrub relieved multiple cleaners from the strenuous, repetitive floor cleaning duties for this enormous facility.



200 M

LIDAR RANGE

A 3D LiDAR with an extensive 200 m range grants the Rex Scrub sophisticated perception of its surroundings, ensuring the safety of people and itself even amidst very high traffic environments.

ROBOTS DEPLOYED



1X REX SCRUB

SINCE JANUARY 2022

“The Rex Scrub took on the repetitive and physically strenuous tasks, lessening my workload and giving me more time to focus on more varied and fulfilling tasks. It has also allowed me to develop new skills and knowledge around AI and automation.”

Poh Cheng, Staff



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CONTACT US

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Made in Singapore
