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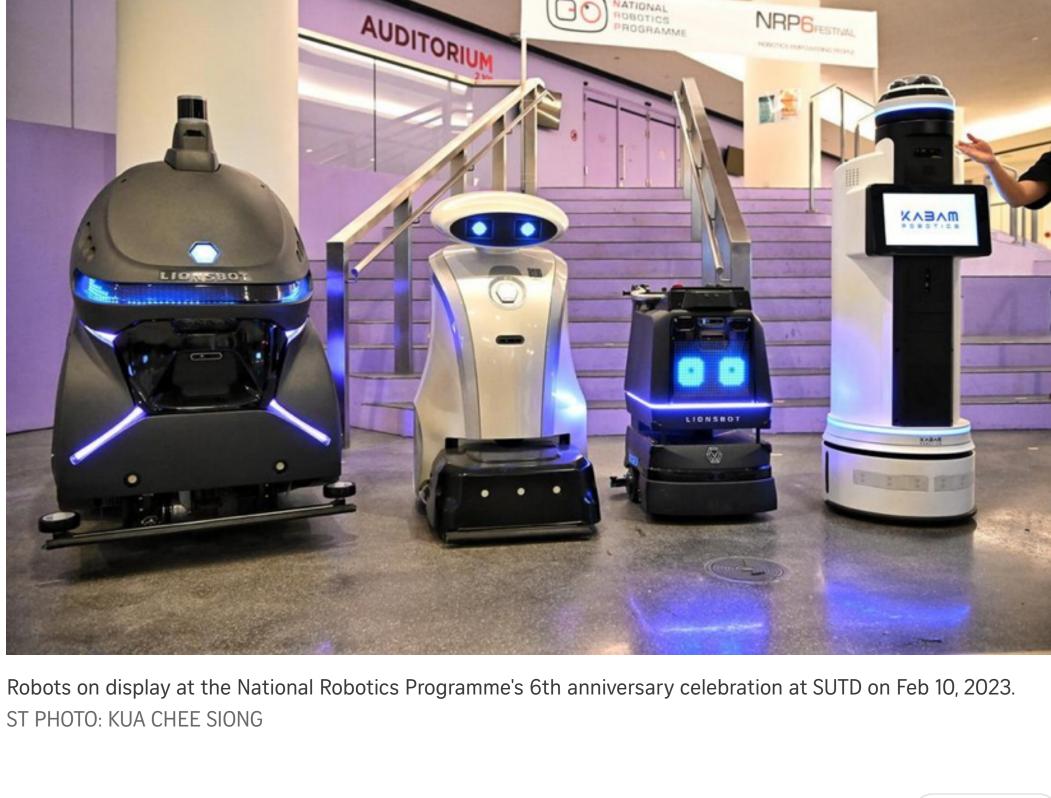
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THE STRAITS TIMES

Robots assemble! Meet Singapore's robotic workforce Sign up now: Get ST's newsletters delivered to your inbox

Osmond Chia and **Josiah Teo**

anniversary on Friday.



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Cleaning

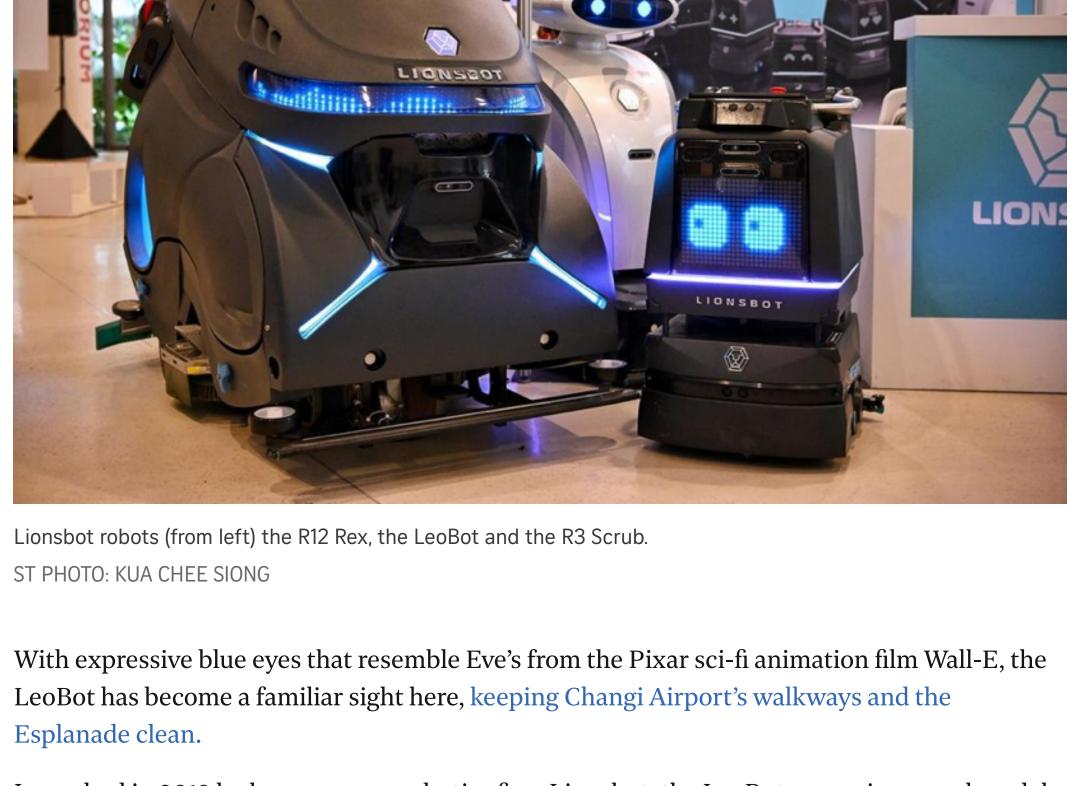
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Robots +

SINGAPORE - They are the Republic's robotic workforce and plugged labour gaps during the Covid-19 pandemic, easing people's workload. Dozens of these robots made an appearance at the Singapore University of Technology and

The Straits Times looks at 10 outstanding robots – some familiar and frequently seen, others to make their debut soon.

Design (SUTD) during a robotics festival to celebrate the National Robotics Programme's sixth



The Matar roams public areas to provide a 360-degree view to the police, and can broadcast messages to the public. ST PHOTO: JOSIAH TEO

Swipe. Select. Stay informed.

The Temi-Bot helps deliver medicine to patients, and links them up with doctors for virtual consultations on its screen.

The Temi-Bot helped plug the gap in community treatment facilities at the height of the

The Dragonfly is a menacing mozzie exterminator – a mosquito trap on wheels. Seen in public areas with potential breeding grounds like Gardens by the Bay, the Swiss Club area and the National University of Singapore, the robot secretes the smell of human sweat and shines an

A back support exoskeleton developed by the National Robotics Programme.

Many workers in factories and industrial sites develop back injuries from lifting heavy objects.

To the rescue comes a mechanised exoskeleton that gives its wearer a boost when carrying

The machines make the items feel half as heavy and can go a long way to reducing workplace

including surveillance.

for cleaning or inspection.

ST PHOTO: KUA CHEE SIONG

inspection.

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PHOTO: A*STAR

objects, protecting his spine.

This coffee-table-sized drone can be seen zipping around the Supertrees of Gardens by the Bay, hosing the branches down with water to keep the structure clean. The multi-purpose drone, developed by SUTD and local firm Spinoff Robotics, hovers into

areas too dangerous or tricky for humans to access, and can be programmed for cleaning or

Facility launched in SUTD in Changi to test drones without breaking no-fly-zone rules NEA exploring table-cleaning robot at hawker centres to support manual labour

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While it is no gun-slinging cyborg, this bot developed by the Agency for Science, Technology and Research's (A*Star), Home Team Science and Technology Agency (HTX) and the police, does plenty to keep the streets safe. The Multi-purpose All-Terrain Autonomous Robot – or

Singapore's RoboCop

Singapore Singapore Sing >

Robotic dogs can help conduct patrols and deliver goods to areas such as tunnels or disaster zones. ST PHOTO: KUA CHEE SIONG They fetch items and scurry where no human would dare to enter without any complaints. These robotic canines can replace people in conducting patrols and delivering goods to areas

The latest model developed by local robotics firm Weston Robot is able to carry payloads of up

Dynamics was seen reminding visitors of safe distancing measures in Bishan-Ang Mo Kio Park

to 40kg and last roughly 2.4 hours per charge. A similar robot originally built by Boston

Once they approach, a small fan sucks the mosquitoes in, trapping them on a replaceable sticky film housed within the bot, which was developed by SUTD.

The four-sectioned Smorphi cleaning bot can line up like a train to squeeze into narrow areas, or roll into a block

This caterpillar-like bot can change its shape depending on its task. Its four sections can line

up like a train if it needs to squeeze into narrow areas for tasks such as cleaning, or roll into a

The Smorphi is developed by SUTD and is being tested for various functions by robotics firms

including Lionsbot. Bot's got your back

Maple seed drone The Single Actuator Monocopter, a drone inspired by a maple seed, is powered by a single motorised rotor.

injuries, said the exoskeleton's developers from the National University of Singapore.

High-altitude cleaning The multi-purpose drone hovers into areas too dangerous or tricky for humans to access, and can be programmed

Tacniq's touch sensors allow robot arms to gently touch an item to assess how sturdy it is. PHOTO: TACNIQ

Tacniq's sensors enable robot arms to gently touch an item to get a sense of how sturdy it is,

The sensors could allow automated bots in packing facilities to handle different items on the

much like a human approaches delicate items with caution.

same factory line without fear of them being damaged.

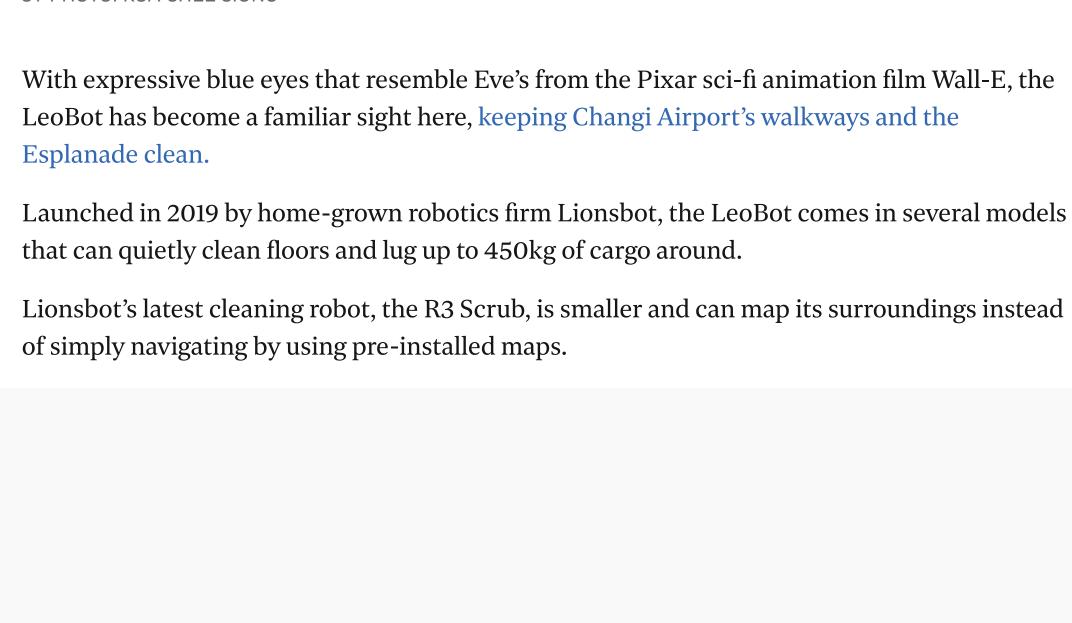
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A friendly face



Matar – roams public areas to provide a 360-degree view to the police, as well as broadcasts messages to the public through in-built speakers.

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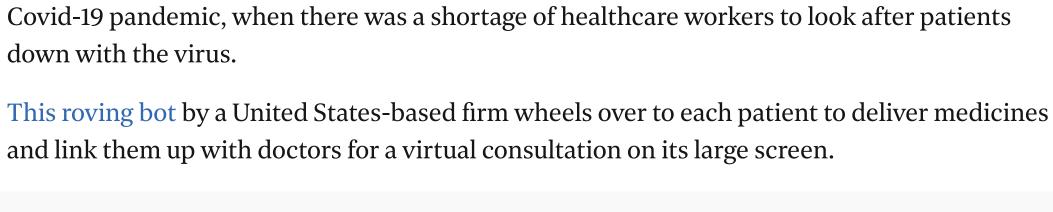


PHOTO: TEMI

such as tunnels or disaster zones.

sticky film.

ST PHOTO: KUA CHEE SIONG

in 2020.

Mozzie killer

Shapeshifter

to cover more surface area.

PHOTO: WEFAA ROBOTICS

block to cover a greater surface area.

Robot dogs

ultraviolet light to attract mosquitoes.

The Dragonfly secretes the smell of human sweat and shines UV

light to attract mosquitos, then sucks them in and traps them on

ST PHOTO: OSMOND CHIA

Most drones come with four motors that power the propellers to keep the devices airborne, but SUTD developers have found a new way to drastically cut the number of parts needed to build a drone. Their drone is inspired by the aerodynamics of a maple seed and is powered by a single motorised rotor attached to one end, keeping the whole device hovering level in the air. The

concept for the Single Actuator Monocopter can be developed for various uses in the field,

A human touch Would you trust a robot claw to grab an egg without cracking it? Home-grown start-up

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SUTD/Singapore University of Technology and Design Robots **Innovation**

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