





THE STRAITS TIMES

SINGAPORE

▲ LOG IN ST SUBSCRIBE

CRIBE PDF Q

and **beyond** 

For **now**,

## Robot developed with S'pore partners helps Kajima stay on track for regional HQ's completion



Yong Li Xuan

Kajima's concrete finishing robot can reduce labour costs by up to 30 per cent. PHOTO: KAJIMA DEVELOPMENT

## UPDATED JUN 18, 2022, 06:01 AM ▼

firm Kajima Corp said its regional headquarters in Changi is on target to be completed in the first quarter of next year, despite manpower shortages amid the Covid-19 pandemic.

The robot, which smooths and levels concrete floors, can reduce labour costs by up to 30 per cent and improve quality and safety in future projects based on data

SINGAPORE - With the help of a concrete finishing robot, Japanese construction

collected during the construction, Kajima said on Friday (June 17).

Unlike other concrete finishing robots, Kajima said at the topping-out ceremony for the building that its version can determine the hardness and unevenness of

concrete.

ADVERTISEMENT

How do you know when's the right time to switch

you triumph against a backdrop of economic

jobs? And what does it take to thrive at each stage of

Find out how developing crucial career skills can help

Part of ST Podcasts' Live! series, this dialogue is...

The Straits Times 🤣

upheaval. https://str.sg/fFwb

small and medium-sized enterprises (SMEs) partnered with Kajima.

our careers?

0

When completed, the nearly \$100 million regional headquarters, called the Kajima Lab for Global Engineering, Architecture and Real Estate (The Gear), will provide room for greater collaboration with local companies, it said.

The third floor of The Gear will be open to researchers from local start-ups and

behaviour, and five labs.

The Gear will have 18 test-bed zones, equipped with sensors to study occupant

developed by Kajima in partnership with JTC Corporation, Nanyang Technological University, Nanyang Polytechnic and local SME Mega Plus Technology.

On the location of The Gear at Changi Business Park, JTC assistant chief executive

officer for engineering and operations Heah Soon Poh said: "It will strengthen the

The concrete finishing robot used in the building's construction, for instance, was

estate's ecosystem and help to catalyse new innovations and partnerships between companies."

Minister of State for Trade and Industry Low Yen Ling, who was the guest of honour at the launch, said she was impressed by the Integrated Digital Delivery (IDD)

which Kajima developed to improve pre-construction planning and efficiency.

Ms Low urged companies to step up transformation efforts to develop a more resilient and future-ready built environment sector.

"Today, the construction industry is on a steady path to recovery," she said, adding

that the Building and Construction Authority (BCA) estimates the total value of

The company's IDD framework uses robots to reduce manpower needed and

platform online.

working remotely, he said.

DEVELOPMENT

digitalisation of facilities management to merge different services into a single

construction contracts to be between \$27 billion and \$32 billion this year, close to pre-pandemic levels.

But she cautioned that Singapore remains exposed to supply chain risks, inflationary pressures and border restrictions.

Minister of State for Trade and Industry Low Yen Ling (in blue) viewing the concrete finishing robot at the event on June 17. PHOTO: KAJIMA

During the event, Ms Low, or rather her avatar, took a tour around The Gear

Metaverse, a digital recreation of the Asia-Pacific headquarters, that was unveiled at the ceremony.

Kajima Development head of innovation Luke Wu said: "Over the last two years,

we've had a shared Zoom experience."

He added: "While Zoom did much good for us, proper, meaningful engagement was something that it struggled to address, especially in groups."

The Gear Metaverse will make it easier for users to connect with one another when

Staff and global partners can enter the virtual building as avatars through a mobile app or virtual reality programme to collaborate, starting from next week.

Screengrab of The Gear Metaverse, a digital re-creation of The GEAR building, which was launched on June 17, 2022. PHOTO: KAJIMA DEVELOPMENT PHOTO: KAJIMA DEVELOPMENT

1950s. Some of the recent projects it has been involved in include Resorts World Sentosa and Marina Bay Financial Centre.

When The Gear is ready, the company will look to hire more local tech talent in the built environment sector.

Kajima, one of Japan's biggest construction companies, said it currently employs

about 160 Singaporeans locally. The company has been in Singapore since the

Singapore-based construction management platform Hubble raised \$11.35 million with the help of Kajima Ventures and other investors in February.

Apart from that, the venture arm of Kajima wants to invest in more local start-ups

For now, researchers from Kajima and JTC are working together to improve the quality and productivity of IDD and robots in construction.

In a virtual address delivered in The Gear Metaverse, Kajima Corp executive vice-

from both in and around Kajima - to collaborate and apply their cutting-edge

Construction firms to get help adopting robotics, automation amid manpower crunch

president Keisuke Koshijima said: "We envision The Gear as a home for innovators -

MORE ON THIS TOPIC

Plans for Spot the robot dog to scan worksite structures for checks by end 2022

Understand the forces behind political shifts, global tariffs, and market movements

Get an exclusive Xiaomi gift with a subscription T&Cs apply |24-month contract

Subscribe at \$29.90/month

Singapore Companies

RSS Feed

✓ Telegram

Youtube

**TikTok** 

**f** Facebook

O Instagram

**X** Twitter

**in** LinkedIn

Ad

FROM AROUND THE WEB

• Join ST's WhatsApp Channel and get the latest news and must-reads.

Robots

Buildings

**Construction Sector** 

Ad

SINGAPORE

ASIA

WORLD

OPINION

BUSINESS

LIFE

THE STRAITS TIMES

Get unlimited access to exclusive stories

and analyses by the ST newsroom

**Subscribe today** 

Choose your plan

TECH

SPORT

VIDEOS

PODCASTS

MULTIMEDIA

Ad

Discover @jimenamuchsel's secret to sun protection  Shop Now UNIQLO	Is Your Used Car a Hidden Goldmine?	Foldable Beds for Small Spaces in 2025 (Discover More)	Affordable Luxury: 2025 Car Leasing in Singapore
Ad	Ad	Ad	Ad
Gym to chill in Ultra Stretch Active Shorts ft. @joshuaheejd  Shop Now  UNIQLO	The Best Places to Buy Second Hand Furniture in Singapore	Best Universities For An MBA Degree In The USA  Click Here	It's Our 10th Anniversary! Win a Car and Prizes Worth Over \$100,000!
THE STRAITS TIMES	Search Ads	MBA Degrees   Search Ads  Download on the Available for iPhones and iPads	Motorist Singapore  GET IT ON Available in Google Play

About Us

Terms & Conditions

Need help? Reach us here.

**Privacy Policy** 

Advertise with us