

# Building Industries

JTC Annual Report FY2024



# Contents

2

Message from CEO

4

Board Members

6

Senior Management

9

Financial Year 2024 Highlights

12

Chapter 1:  
Building for the Future

17

Chapter 2:  
Serving the Needs of Businesses

24

Chapter 3:  
Shaping Industry's Next Chapter

26

Financial Highlights and Review



# Message from CEO

This past year has been a meaningful one for JTC. It was a year of change and renewal — not just in the spaces we shaped, but within our leadership as well. As JTC Chairman Song Hwee and I step into our new roles, we do so with great respect for what has come before, and a clear vision for the opportunities that lie ahead.

## Celebrating our milestones

Whether we're building an innovation district, upgrading an ageing estate, or introducing a new sustainability initiative, we always focus on the people we serve.

Over the past year, our teams have made headway on several key fronts. What heartens us most is that each of these milestones was made possible through close collaboration with a myriad of users and stakeholders who believed in the long game.

Punggol Digital District, an ambitious integrated precinct, came to life after six years of construction despite COVID-19 disruptions. Singapore's first truly smart and sustainable district welcomed the first batch of students from the Singapore Institute of Technology, as well as secured the tenancies of many large corporations. MRT train services also began running at Punggol Coast MRT station, making it easier for everyone to check out what this next-generation business park has to offer. Punggol Coast Mall has opened its stores, providing the Punggol community with new retail and F&B options.

Across the island, Bulim Square, a key node in Jurong Innovation District, achieved TOP (Temporary Occupation Permit) for its first two phases. We also celebrated the opening of a pedestrian bridge that conveniently links Jurong West residents to the advanced manufacturing hub. This is the only cycling-permitted pedestrian bridge across the Pan Island Expressway and embodies JTC's approach to developing industrial estates for the future of work.

Finally, JTC achieved excellent financial results, as well as strong audit and governance validation.



**Jacqueline Poh**

Chief Executive Officer  
JTC Corporation

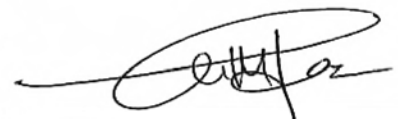
## Build what's next

As JTC's incoming CEO, I spent the past few months gathering feedback and listening to our staff and the people on the ground in the many estates we develop and manage. There is a culture of getting things done and doing them well, and there is also much to admire and build on in our commitment to excellence in delivery and operations.

But I've also heard calls for us to be bolder. Singapore's value proposition to businesses is strong, but our aim should be to support the next bound of economic growth so that Singapore can succeed amid new global economic realities. To build Singapore's future, JTC must be ambitious enough to invest in new concepts and infrastructure ahead of time, and to deliver these results over time.

There is no blueprint for the future we want to build. But that has never stopped JTC from breaking new ground before.

Let's create what's next, together.



**Jacqueline Poh**

Chief Executive Officer  
JTC Corporation

# Board Members

As at 31 July 2025



**Chia Song Hwee**

**Chairman**  
JTC Corporation

**Deputy Chief  
Executive Officer**  
Temasek International  
Pte Ltd



**Jacqueline Poh**

**Chief Executive Officer**  
JTC Corporation



**Jill Lee**

**Non-executive Director**  
Schneider Electric SE,  
PSA International,  
65 Equity Partners



**Muthukrishnan  
Ramaswami**

**Senior Advisor**  
GXS Group



**Tan Chin Hwee**

**Chairman**  
Singapore Trade Data  
Exchange Services

**Chairman**  
Energy Supply Resilience  
Advisory Panel, Energy  
Market Authority



**Goh Swee Chen**

**Chairman**  
Nanyang Technological  
University Board of Trustees



**Judy Lee**

**Managing Director**  
Dragonfly LLC  
**Chief Executive Officer**  
Dragonfly Capital  
Ventures LLC



**Wee Siew Kim**

**Group CEO**  
Nipsea Group  
**Co-President**  
Nippon Paint Holdings  
**Chairman**  
Jurong Port



**Bernard Menon**

**Director (U PME)**  
National Trades Union  
Congress



**Rachel Eng**

**Managing Director**  
Eng & Co. LLC



**Keith Tan**

**Deputy Secretary  
(Industry)**  
**Deputy Secretary  
(Energy & Carbon)**  
Ministry of Trade  
and Industry



**Andrew Kwan**

**Group Managing Director**  
Commonwealth  
Capital Group



**VADM Aaron  
Beng Yao Cheng**

**Chief of Defence Force**  
Ministry of Defence



**Mohamad Saiful  
bin Saroni**

**Partner**  
PricewaterhouseCoopers  
Singapore

# JTC Board Committees

## Audit & Risk Committee (ARC)

**Chairman**  
Jill Lee

**Members**  
Muthukrishnan Ramaswami  
Judy Lee  
VADM Aaron Beng  
Mohamad Saiful bin Saroni

To assist the Board in its responsibilities related to:

- Integrity and reporting of the financial statements
- Independence and performance of the internal and external auditors' compliance with legal and regulatory requirements
- Risk management and the system of internal controls of the Corporation

## Development Committee (DC)

**Chairman**  
Mr Chia Song Hwee

**Members**  
Jacqueline Poh  
Keith Tan  
Bernard Menon  
Chee Wan Chin\* (GCFO)

To assist the Board in providing:

- Oversight and direction, including approvals on expenditure
- Development work of the Corporation

## Digital Technology Committee (DTC)

**Chairman**  
Muthukrishnan Ramaswami

**Members**  
Jacqueline Poh  
Goh Swee Chen  
Andrew Kwan

To provide strategic oversight and guidance for the Corporation's Digital Technology initiatives:

- In the areas of digitisation and digitalisation transforming how customers and companies engage and interact with JTC and cybersecurity
- Leverage digital tools and technology to become a data-driven and digital organisation

## Finance & Investment Committee (FIC)

**Chairman**  
Tan Chin Hwee

**Members**  
Jacqueline Poh  
Keith Tan  
Rachel Eng  
Teo Jwee Liang\*  
Adrian Chua\*  
John Tang\*

To assist the Board in providing strategic guidance and oversight to the Corporation in key finance and investment-related matters.

## Human Resources Committee (HRC)

**Chairman**  
Chia Song Hwee

**Members**  
Jacqueline Poh  
Goh Swee Chen  
Andrew Kwan

To provide overarching oversight and guidance to the Corporation on the management of key human resource issues within the Corporation.

\*Non-Board Members

# Senior Management

As at 31 July 2025



**Jacqueline Poh**  
Chief Executive Officer  
Corporate Policy &  
Planning (covering)



**Christine Wong**  
Assistant Chief  
Executive Officer  
Cluster Group  
Group Director  
Digital Economy, Logistics  
& Food (covering)



**David Tan**  
Assistant Chief  
Executive Officer  
Development Group  
Group Director  
Contracts & Procurement  
(covering)



**Calvin Chung**  
Assistant Chief  
Executive Officer  
Engineering &  
Operations Group



**Chee Wan Chin**  
Group Chief  
Finance Officer  
Finance



**Lim Soon Chia**  
Chief Digital Officer  
Digital Technology



**Yvonne Lim**  
Chief People Officer



**Vivien Tan**  
Group Director  
Cluster Solutions



**Finn Tay**  
Group Director  
Engineering



**Mark Koh**  
Group Director  
Facilities Management



**Kok Poh June**  
Group Director  
Facilities Management



**Cindy Koh**  
Group Director  
Green Growth  
Director  
Energy & Chemicals  
Cluster (covering)



**Leong Hong Yew**  
Group Director  
Industrial Estates  
(Central/West)



**Leow Thiam Seng**  
Group Director  
Industrial Estates  
(North/East)



**Nelson Liew**  
Group Director  
New Estates  
Director  
New Estates 1 (covering)



**Jan Seow**  
Group Director  
Land Planning &  
Redevelopment



**Eugene Lim**  
Group Director  
Policy & Research



**Wong Wei Loong**  
Group Director  
Project Management



**Lim AiTing**  
Acting Group Director  
Advanced Manufacturing

# Senior Management

As at 31 July 2025

## CEO'S Office

### **Lim Lek Lim**

Director  
Billing & Reporting

### **Caroline Wong**

Director  
Communications

### **Foo Chek Wee**

Director  
Human Resources &  
Organisation Development

Deputy Director

HR Policies & Rewards  
(covering)

### **Stanley Tan**

Director  
JTC Academy

### **Tan Chin Huat**

Director  
Treasury & Payments

## Cluster Group

### **Lim Wee Lee**

Director  
Aerospace & Precision  
Engineering

### **Cheong Wee Lee**

Director  
Biomedical & Electronics

### **May Ang**

Director  
Cluster Solutions 1

### **Hong Yi**

Director  
Food & Logistics

### **Anil Das**

Director  
Industrial Estates (Central)

### **Lim Junwei**

Director  
Industrial Estates (North)

### **Cheang Tick Kei**

Director  
Industrial Estates (West)

### **Yap Eai-Sy**

Director  
Info-Comm Media & Start-Up  
Cluster (concurrent)

### **Gillian Phua**

Director  
Urban Solutions & Marine  
Cluster

### **Lai Quan Hai**

Acting Director  
Cluster Solutions 2

### **Teo Tsu Lyn**

Acting Director  
Industrial Estates (East)

## Corporate, Policy & Planning

### **Goh Thong**

Director  
Audit & Advisory

### **Wee Pei Yean**

Director  
Corporate Planning

### **Loo Eng Teck**

Director  
Legal

### **Jeslyn Ng**

Director  
Market Analytics

### **Eng Xing You**

Director  
Policy

### **Mae Tan**

Director  
Valuation



# Senior Management

As at 31 July 2025

## Development

### Goh Chye Kiang

Director  
Applications Development

### Stanley Tan

Director  
Centre for Information  
Management

### Elaine Lee

Director  
Contracts & Procurement  
(Construction)

### Dawn Chiang

Director  
Contracts & Procurement  
(Corporate)

### Andy Yeo

Chief Information Security  
Officer  
Cybersecurity

### Benjamin Chan

Director  
Data Science

### Alan Siow

Director  
Digital Infrastructure &  
Operations

### Gina Foo

Director  
New Estates 2

### Yap Eai-Sy

Director  
New Estates Business  
Development & Marketing

### Kelvin Wang

Director  
Land Redevelopment

### Agnes Chew

Director  
Land Planning

### James Tan

Director  
Smart District Division

### Liew Hua Peng

Director-Designate  
Smart District Division

### Tang Hsiao Ling

Director  
Urban Planning & Architecture

## Engineering & Operations

### Kenny Lim

Director  
Building Projects

### Tan Su Chern

Director  
Civil & Structural

### Chan Chee Choong

Director  
Facilities & Estates  
Management (Central)

### Yap Chung Lee

Director  
Facilities & Estates  
Management (East)

### Derrick Ong

Director  
Facilities & Estates  
Management (Public)

### Hubert Tan

Director  
Facilities & Estates  
Management (West)

### Jason Foo

Director  
Facilities Planning,  
Enforcement & Development

### Brian Koh

Director  
Infrastructure Projects

### Ng Eng Sin

Director  
Mechanical & Engineering

### Tan Mei Ling

Director  
Public Projects

### John Kiong

Director  
Public Projects 2

### Chua Leong Yew

Director  
Reclamation  
Workplace Safety & Quality  
(covering)

### David Lim

Director  
Security

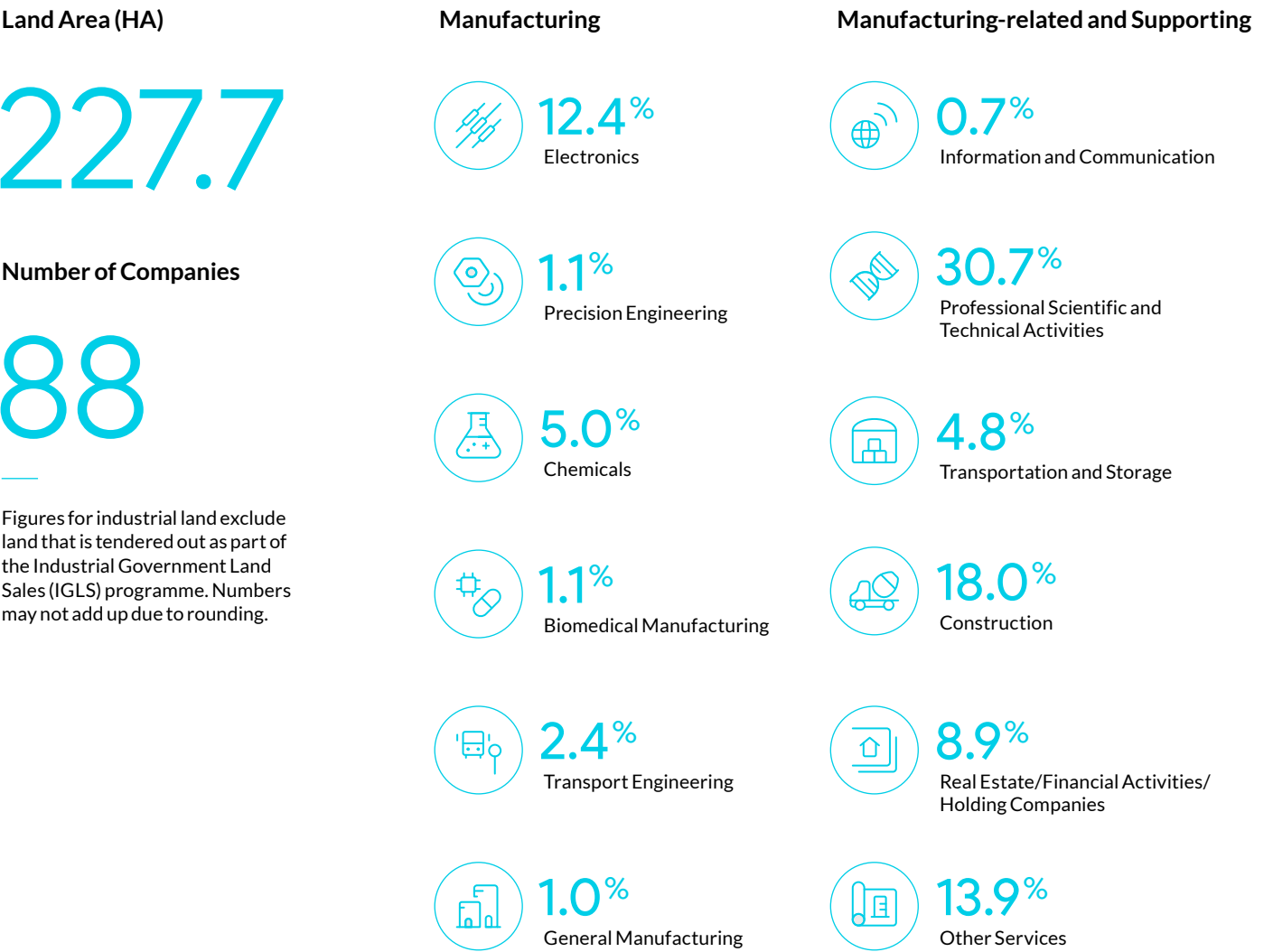
### Cheong Jiawen

Acting Director  
Future of Building &  
Infrastructure

# Financial Year 2024 Highlights



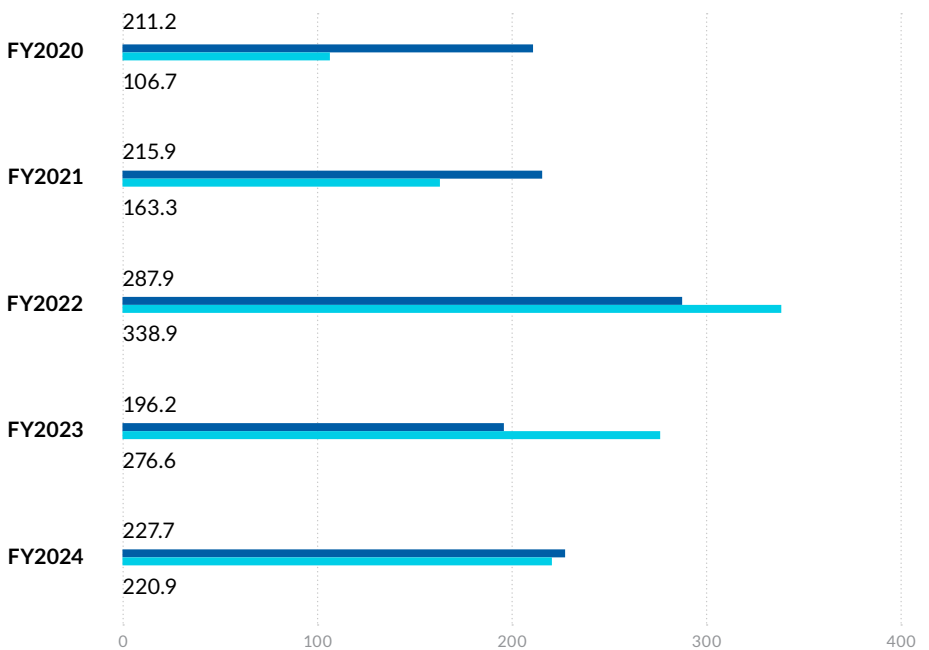
# Allocation of JTC's Industrial Land



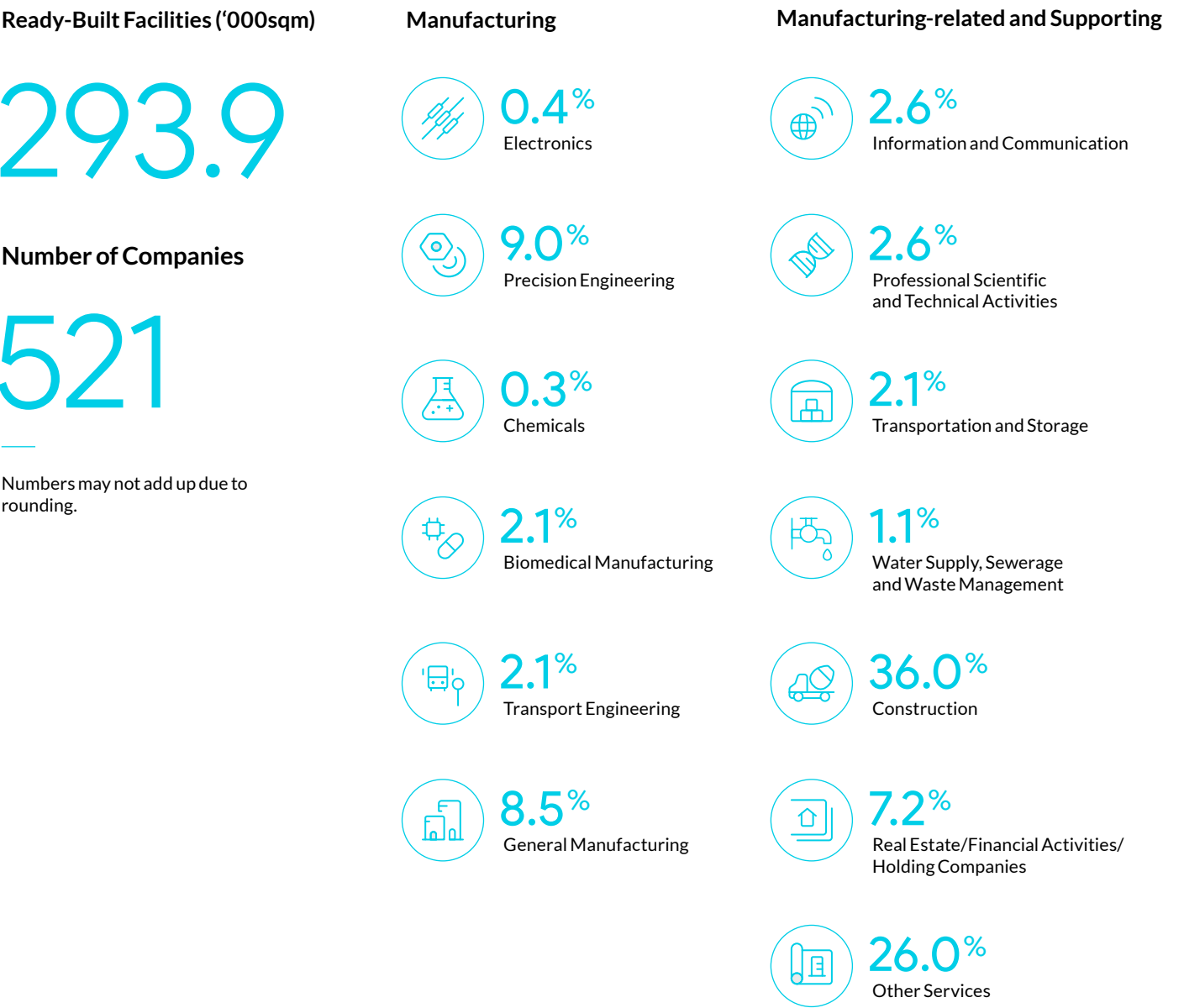
Figures for industrial land exclude land that is tendered out as part of the Industrial Government Land Sales (IGLS) programme. Numbers may not add up due to rounding.

## Allocation and Returns for JTC's Prepared Industrial Land (HA), FY2020 – FY2024

- Land Allocated (HA)
- Land Returned (HA)



# Allocation of JTC's Ready-built Facilities









# Powering Singapore's future economy with vibrant industrial spaces

From next-generation manufacturing facilities to research hubs, JTC is laying the foundation for the industries of tomorrow by nurturing developments that embrace innovation, sustainability and business growth.



↑ A 2-kilometre-long Collaboration Loop runs through Punggol Digital District to encourage more interactions between industry and academia.

2024 was an exciting year for JTC as we welcomed a series of new developments that were purpose built to reflect Singapore's evolving needs and plans for the future.

## Nurturing Connected Ecosystems

Specialised estates foster innovation clusters, enabling businesses in similar sectors to benefit from proximity and shared resources.

## Punggol Digital District

In 2024, several key events marked the progressive opening of Punggol Digital District (PDD). In August, the first batch of 3,800 students from the Business, Communication and Design cluster, and Infocomm Technology cluster of the Singapore Institute of Technology (SIT) moved into their new home at PDD. Designed to house the entire SIT under one roof, the consolidated campus will serve as a dynamic hub of innovation and collaboration.

Further bolstering PDD's role as Singapore's first smart district was the announcement by OCBC of its plans for a new innovation hub and strategic partnership with SIT. This \$500 million investment represents the convergence of industry, academia and government within one unified ecosystem.

OCBC Punggol, which is expected to house 4,000 of the bank's tech employees when completed in 2027, will play a significant role in driving innovation and talent development in fintech. This will be achieved through the establishment of an Analytics and Innovation LAB by OCBC within the SIT campus, bond-free scholarships for SIT students, and shared resources and exchanges between the two entities.

As a fitting and integral part of Singapore's Smart Nation ambitions, PDD was proud to be the venue for the launch of Smart Nation 2.0 in 2024. The event, which unveiled the vision of a digital-led Singapore, was attended by Prime Minister Lawrence Wong, Senior Minister Lee Hsien Loong, Senior Minister Teo Chee Hean, Minister Josephine Teo, Minister Vivian Balakrishnan, and Senior Minister of State Janil Puthuchery.

Since PDD's opening, the district has played host to many significant and exciting events, including RoboSG 2025 – a showcase of Singapore's vibrant robotics ecosystem, and WonderLab – a community event for showcasing how art, nature and tech can converge.

### Jurong Innovation District

Over at Jurong Innovation District (JID), we continued our mission to roll out new facilities that are in line with Singapore's future economy. TOP was received for Phase 1 and 2 of Bulim Square – a development that supports the needs of businesses as they move towards Industry 4.0.

From R&D to prototyping to production and distribution, Bulim Square has a distinct advantage of allowing businesses to house their value chain under one roof. Moreover, tenants will also be able to benefit from the vibrant ecosystem of innovators and researchers, and integrated logistics infrastructure of the wider JID.

↓ Bulim Square is set to be an important node in JID.





## Embracing Sustainable Infrastructure

JTC is committed to ensuring sustainability is embedded across the entire infrastructure of our developments, from essential utilities and transportation networks to digital connectivity, and more.

Transport networks are an essential part of any modern city and critical for attracting talent and enhancing liveability. In 2024, we celebrated the opening of Punggol Coast MRT station, which connects PDD to the rest of the island. With the opening of this new station on the North East Line, workers and students now save up to 15 minutes of travelling time to places like Orchard Road and Outram Park.



→ Punggol Coast MRT station brings visitors right into the heart of PDD.

In line with a proactive approach towards reducing energy consumption, a consortium consisting of local electricity generator and retailer, PacificLight Power, and global decarbonisation software company, Univers was appointed to design, build and operate Singapore's first district-level smart grid at PDD.

This smart grid will enable us to do our part in tackling climate change by enhancing energy efficiency, incorporating renewable energy sources, and improving overall national grid resilience. It will also serve as a testbed for implementing on-site power generation and virtual power plants, which can then be rolled out to other districts in the future.

## Connecting with the Community

Integrating with the surrounding community is an important factor when planning for our developments.

In 2024, as part of our master planning for one-north business park, a new Buona Vista community node was opened along the southern stretch of the Rail Corridor. This node provides an inclusive space for play, appreciation of nature and bonding among the one-north community. Joining us to make this project possible was the Urban Redevelopment Authority of Singapore (URA), National Parks Board, and Ho Bee Land.



At Jurong Innovation District, we celebrated the opening of a 110-metre-long pedestrian overhead bridge. In addition to bringing the surrounding community closer to the advanced manufacturing hub, the bridge will also improve accessibility for over 63,000 Jurong West residents, connecting them to Nanyang Technological University, Jurong Eco-Garden, and the future CleanTech Park MRT Station. It is the first such bridge in Jurong West to feature dedicated walking and cycling paths, reflecting an approach to designing next-generation industrial parks and estates that support a car-lite and greener transport system.

- The newest node along Singapore's Rail Corridor brings neighbours together in a space now pulsing with community life, from morning joggers to evening gatherings.
- ↓ Below and bottom right: The new pedestrian bridge does more than span a physical gap - it connects Jurong West residents to Singapore's next-generation industrial district.









# Enabling companies to focus on what matters most: their business

From promising start-ups to established multinational companies, businesses are supported at every stage of their journey.

In 2024, Singapore continued to see companies from around the world open up new offices, break ground on upcoming facilities, and announce plans for expansion into the country. JTC welcomed many of them into our future-ready spaces.

## Housing Global Industry Leaders

Over the years, Singapore has been recognised as an ideal place for global manufacturing companies to set up shop. This is due in part to the easy access to talent, favourable business policies, and high-tech environment.

## Chemical Manufacturing

One of the key industries that JTC supports with its spaces is the energy and chemicals sector. In 2024, the following companies set up new facilities on Jurong Island: Sumitomo Seika Chemicals Co, which specialises in producing super absorbent polymers that are used in products such as diapers; Kuraray, which manufactures EVALTM – a cutting-edge recyclable resin with oxygen barrier properties for preventing food spoilage; and Evonik, which produces essential amino acid – DL-methionine.

↓ Sumitomo Seika Chemicals Co joins a growing list of companies expanding their presence in Singapore with new facilities. Photo courtesy of Sumitomo Seika Chemicals Co.

All three of these facilities are contributing to the sustainability cause through different ways such as offering lower-carbon products, stopping food wastage, and embracing renewable energy generation solutions in the manufacturing process.



## Semiconductor Manufacturing

A stalwart of Singapore's manufacturing sector is the semiconductor industry. Today, 10% of all chips produced worldwide are made in Singapore. Over at JTC's Tampines Wafer Fab Park, German silicon-wafer manufacturer, Siltronic AG, announced the opening of its third production plant in Singapore, and VisionPower Semiconductor its first. These two plants alone account for more than \$13 billion worth of combined investment, and are expected to bring in around 600 and 1,500 jobs respectively.

In addition to semiconductor manufacturers, supporting companies such as Pall Corporation, which provides filtration solutions for semiconductors, also opened up new facilities at JTC's Jurong Industrial Estate. Their new US\$150 million, 18,000-square-metre plant will serve as a regional customer hub for the rapidly expanding Asia Pacific market.



→ These state-of-the-art plants reinforce decades of precision manufacturing expertise. Photo courtesy of Pall Corporation.

As testament to the continued importance of the semiconductor industry in Singapore, A\*STAR has committed to investing \$500 million to establish a new National Semiconductor Translation and Innovation Centre (NSTIC) R&D fabrication facility at JTC's nanoSpace @ Tampines. This facility, when completed in 2027, will strengthen the local semiconductor ecosystem by giving smaller companies access to previously out-of-reach tools, as well as bringing lab research closer to market.

## Pharmaceutical Manufacturing

One industry that has been growing rapidly in Singapore is the pharmaceutical industry. This past year, Pfizer announced a \$1 billion extension to its highly automated Active Pharmaceutical Ingredient manufacturing facility in Tuas Biomedical Park. This planned expansion will pave the way for the production of vital oncology, pain and antibiotic drugs.

Global pharmaceutical company, AstraZeneca also broke new ground on their new 58-acre site in Tuas South. This US\$1.5 billion facility is the company's first manufacturing plant in Singapore, and its first global end-to-end Antibody Drug Conjugates (ADC) manufacturing facility. It is expected to be completed in 2029.



## Aerospace Manufacturing

This year, we welcomed Collins Aerospace and Singapore Aero Engine Services Private Limited (SAESL) into our Seletar Aerospace Park (SAP) community. They join a list of noteworthy companies that include Airbus, Bombardier and Pratt & Whitney.

Collins Aerospace will be starting work on its new \$250 million manufacturing facility in the fourth quarter of 2025, and expects to progressively transfer its operations from the current Bedok site to SAP by 2028.

For SAESL, they have already begun to move part of their operations into a new 25,000 square-metre space at SAP. This is part of a larger \$242 million investment plan to increase their maintenance, repair and operations (MRO) capacity by 40%, and meet the growing demand for next-generation Rolls-Royce aeroengine services.

## Data and Logistics

Equinix announced the opening of its sixth data centre in Singapore at our Jalan Tukang space. When completed in 2027, this new centre will be able to provide 20MW of capacity. Committed to aligning with Singapore's national sustainability goals, Equinix has already achieved 100% renewables coverage for their data centres in Singapore since 2020, and are on track to achieve climate neutrality by 2030.

Also, as part of Cogent Jurong Island's Phase 2 expansion plans for Jurong Island Logistics Hub (JILH), they will be leveraging their proximity to Jurong Island Terminal to use barging containers instead of traditional road transport to reduce their carbon footprint.

## Paving the Way for Growth

JTC provides startups and established companies with an environment that encourages innovation, collaboration and sustainable business practices. At LaunchPad @ one-north, TinyPod is transforming a decommissioned MRT train cabin into co-living hotel spaces at Launchpad. Beyond providing unique accommodation experiences, this testbed project shows how partnerships catalyse new possibilities

↓ Adaptive reuse takes an innovative turn as a decommissioned MRT carriage transforms into Singapore's first co-living train hotel. Photo courtesy of TinyPod.



As part of our bid to improve accessibility in our industrial estates and to support the development of more efficient and sustainable transport solutions, a six-month tender was awarded to GetGo Carsharing to provide electric car-sharing services across eight of our industrial sites. This trial by Singapore's largest car-sharing company will help to assess the demand and viability of car sharing in our industrial estates, and its effectiveness as a middle-mile solution between public transportation networks and key amenity hubs.

## Building Knowledge through Partnerships and Events

Strong partnerships enable us to better understand the needs of businesses, and support the building of a valuable ecosystem where companies benefit from shared networks and resources.

One of our longest running partnerships has been with Suzhou Industrial Park (SIP), which began 30 years ago in 1994. To mark the occasion, we signed a new agreement to establish a Smart and Sustainable Joint Innovation Workshop with the SIP Administrative Company and Sungent Holding Group.

This collaboration will allow both SIP and JTC estates to share knowledge and experience in using digital technology, industry ecosystem development, and smart building construction, to build smart and sustainable business parks.

Another way that we build partnerships is through events and seminars. In 2024, we hosted the first-ever Kranji Built Environment Hub (KBEH) Networking Seminar. This seminar provided a platform for more than 80 company representatives from TimMac and Kranji Green to connect, share insights and explore collaboration opportunities. In a separate session, Plony Industries, Kenwood, Goodhill Enterprise and Hong Gam Industries showcased how they embraced high-tech solutions to aid them in transitioning from land-based facilities into high-rise spaces. Such solutions include radio shuttle systems and autonomous mobile robots that help to optimise space, increase storage capacity, and enhance work efficiency.

→ At events like the CleanEnviro Summit, industry pioneers share insights, forge partnerships, and transform sustainability discussions into actionable solutions.



The in-person JTC-Singapore Green Building Council Seminar was also brought back for the first time since 2019. Over 200 industry participants gathered to discuss and learn more about the future of Super Low Energy Buildings (SLEBs).

Invited experts included Ramboll, HY M&E Consultancy Services, SP Group, and SJ Group, who shared about their experience in achieving exceptional building performance through innovative design strategies and cutting-edge technologies.

To bridge the gap between industry and academia, we work closely with Institutes of Higher Learning to nurture talent and equip professionals with insights for an evolving workforce. As an example, the Woodlands North Coast community participated in a Lunch & Learn session jointly organised with Republic Polytechnic. The session featured short educational talks over lunch, covering topics such as no-code apps and AI tools that enhance workplace productivity and responsiveness.

Separately, as part of a Sustainable Net Zero Organisation (SNZO) event organised by the International Facility Management Association – Singapore at Temasek Polytechnic, we had the opportunity to present about how strategic FM service procurement can help to drive sustainable facilities management practices.

Farther afield, JTC also participated in global and regional events dedicated to building smart and sustainable cities. One of these was the World Cities Summit, where we showcased Punggol Digital District as part of a panel discussion surrounding the challenges and potential solutions for cities' smart nation aspirations.

We also attended the International Built Environment Week (IBEW) and BEX Asia (The Built Environment Expo), where we signed a Memorandum of Understanding with Kajima to facilitate collaboration opportunities with the 800-plus startups located at JTC's LaunchPad. This partnership with one of Japan's largest construction companies focuses on the area of built environment innovation and carbon reduction technologies, and is part of the LaunchPad Investor Network (LINK) programme.

- ↓ At the World Cities Summit, a panel discussion by JTC brought together international perspectives on building resilient and sustainable urban ecosystems.
- At IBEW, JTC also shared insights on leveraging technology to transform facilities management. The discussion explored how smart solutions enhance building operations and maintenance.









# Developing solutions for tomorrow's industrial landscape

We stay prepared by anticipating future industry trends, and adapting our developments to emerging needs. Our master planning approach ensures sustainable land use while maintaining Singapore's competitive edge.

To ensure our readiness for tomorrow, and to better support Singapore's businesses to thrive, we work closely with industry leaders and research institutions to future proof our spaces.

## Incorporating Greener Infrastructure

As part of our green agenda, Jurong Island is being transformed into a sustainable energy and chemicals park. Since 2021, we have been collaborating with the Energy Market Authority to explore the use of renewable energy at Jurong Island. In 2024, a significant step forward was taken through the signing a Memorandum of Understanding (MOU) with Advorio and VFlowTech to scale up Vanadium Redox Flow Battery (VRFB) technology on the island.

Through this MOU, VFlowTech will leverage Advorio's tank infrastructure to deliver energy output of up to 40MWH, the equivalent of powering up over 3,000 4-room HDB flats daily.

To further lessen our carbon impact, as well as that of our tenants and lessees, \$4 million has been committed towards developing carbon-saving solutions at Jurong Innovation District (JID). This initiative is driven by the Decarbonisation Living Lab @ JID (DECAL), and also involves SJ Group and Energy Research Institute @ NTU, who are developing solutions to reduce energy and water consumption, minimise waste and reduce JID's environmental impact

## Turning Innovative Ideas into Deployable Solutions

In today's fast-changing and unpredictable world, it is not enough to simply incorporate technology and AI into traditional processes. We need to work collaboratively with partners to come up with out-of-the-box solutions for solving our problems.

The Aerospace Open Innovation Challenge (AOIC), which was launched together with Enterprise Singapore at Singapore Airshow 2024, is one such example. With support from the Singapore Economic Development Board and the Association of Aerospace Industries (Singapore), we crowdsourced solutions for 12 of the most pressing global aerospace challenges facing us today. In total, 140 submissions from 29 countries were received, providing us with no less than eight viable suggestions that are currently being explored.

Adaptive reuse took centre stage in a tender for the redevelopment of a terrace factory cluster at Kolam Ayer. Developers were challenged to breathe new life into the three-storey terrace showroom while preserving its industrial heritage. The project was subsequently awarded to CapitaLand Development, which came up with a plan to create a vibrant food hub that honours the buildings' architectural legacy. The nine-storey facility will serve a spectrum of food-related businesses, ranging from manufacturers to caterers to central kitchen operators.

- Launched during Singapore Airshow 2024, the Aerospace Open Innovation Challenge received 140 submissions from 29 countries.
- ↓ The conserved Jurong Hill Tower and former Jurong Bird Park site took centre stage in a competition seeking fresh ideas for the area's rejuvenation.



Not restricted to just business activities, we also called out for suggestions on how to transform the former Jurong Bird Park and Jurong Hill into a thriving hub that incorporates both work and play. To garner more diverse and representative views, the public was invited to join professionals in submitting their ideas and proposals.

In many ways, the future is already here. Many of what were once thought as futuristic ideas have already become a reality. Over at 1 and 7 North Coast, for instance, an autonomous food delivery service that can access lifts across multiple buildings to deliver food is currently being trialed. Developed in conjunction with NCS Group, this AI-powered food delivery robot, which is integrated with the Open Digital Platform, promises to bring a whole new level of added convenience to 1and 7 North Coast tenants.

Singapore's competitive edge comes from decades of calculated planning. The next decade brings unprecedented shifts in technology, climate, and global trade that demand sharper foresight.