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NEWS RELEASE

CapitaLand unveils S\$1.4 billion “Geneo” life sciences and innovation cluster in latest phase of Singapore Science Park rejuvenation

- *Geneo adds 180,600 sq m of GFA to Singapore Science Park (SSP), of which 80,000 sq m houses purpose-built infrastructure to support biomedical R&D*
- *Geneo scores multiple “firsts”, including introducing SSP’s first lodging facility – the Citadines Science Park Singapore opening in 1Q 2024, SSP’s first BCA Green Mark Platinum Super Low Energy building, SSP’s first distributed district cooling network and CapitaLand’s first coworking laboratory space in Singapore*
- *Geneo’s construction features sustainable innovations including the tallest mass engineered timber canopy structure and the first project to adopt carbon dioxide mineralised concrete for superstructure works in Singapore*
- *Park community contributes over S\$270,000 for five charities as part of SSP’s 40th anniversary celebrations*

Singapore, 26 June 2023 – CapitaLand Group (CapitaLand) today unveiled the “Geneo” life sciences and innovation cluster in the 55-hectare Singapore Science Park (SSP). The launch event was attended by Mr Gan Kim Yong, Minister for Trade and Industry, as well as representatives from SSP tenants, community and industry partners.

Geneo comprises three properties with five state-of-the-art sustainable buildings at various stages of completion, which will offer about 180,600 square metres (sq m) of gross floor area (GFA) with work-live-play elements when fully completed in 2025. The properties are **1 Science Park Drive** (comprising three buildings), **5 Science Park Drive** and **7 Science Park Drive**.

Totalling about S\$1.37 billion in investments, Geneo marks the latest phase in CapitaLand’s multistage precinct rejuvenation of SSP, the country’s first research & development (R&D) and technology park that is commemorating its 40th anniversary this year. When Geneo is fully operational, SSP’s population is expected to increase by approximately 75% to about 21,000 from the current 12,000.

Mr Jonathan Yap, CEO of CapitaLand Development (CLD), the master developer and park operator of SSP, said: “Over the last four decades, SSP has established itself as one of Asia’s most prestigious addresses for R&D and technology, home to more than 350 multinational corporations, homegrown companies, start-ups and laboratories. Of these, about 30% or 100 companies are from the life sciences sector, with representation across the value chain, ranging from venture capital investors, incubators and business accelerators to companies undertaking discovery/R&D, preclinical/clinical research and commercialisation activities. They have been drawn to SSP’s collaborative, campus-style environment with convenient access to public transport and supporting amenities, as well as proximity to academia, research institutes and teaching hospitals.”

“Against this backdrop, we have created Geneo to build on and expand SSP’s vibrant industry ecosystem with purpose-built infrastructure that is conducive for life sciences and innovation companies to thrive, complemented by first-rate work-live-play amenities that help companies to attract and retain talent. Catering to the needs of sustainability-minded tenants, all the buildings in the Geneo cluster have obtained notable green credentials. With Singapore continuing to be the region’s R&D hub for a diverse range of technologies, we are pleased to leverage CapitaLand’s real estate expertise to support the growth of these industries at SSP.”

Mr William Tay, CEO of the manager of CapitaLand Ascendas REIT (CLAR), said: “We are proud to take part in the development of the Geneo life sciences and innovation cluster in SSP as a joint venture partner for 1 Science Park Drive with a 34% stake in the property. 1 Science Park Drive accounts for about 64% of Geneo’s total GFA of 180,600 sq m. Given its prime location, seamless underground connection to the Kent Ridge MRT station and state-of-the-art design and property specifications, we expect strong demand from tenants in new economy sectors such as biomedical sciences, digital and technology.”

Celebrating 40 years of innovation and community building at SSP

At today’s event, Minister Gan was invited to put the finishing paint touches to a bench adorned with motifs commemorating Geneo’s launch. This was part of the CLD-organised “Art Jam Science Park” programme, a SSP 40th anniversary placemaking initiative aimed at driving inclusive community engagement through bringing 40 art benches into SSP’s communal spaces.

Featuring colourful designs created mostly by artists with disabilities, the benches have been adopted by 18 companies located in SSP and partners of the park. To promote inclusivity and community engagement, 158 volunteers from CapitaLand and the park community took part in co-painting the benches with 45 talents from the initiative’s charity partners – ART:DIS, Metta Welfare Association, MINDS, Rainbow Centre and TOUCH Community Services. Together with donations from CapitaLand Hope Foundation, the philanthropic arm of CapitaLand Group, the park community contributed over S\$270,000 to benefit the five charity organisations, in support of skills development initiatives for youth with special needs.

Key highlights of the Geneo life sciences and innovation cluster

Geneo marks CapitaLand's first concerted effort to curate the offerings across multiple buildings to form a unified cluster since it embarked on rejuvenating SSP about a decade ago. Inspired by the word "ingenuity" and containing the word "gene", the name Geneo underscores the cluster's focus on supporting life sciences companies in bringing their innovation to fruition. Geneo can also be read as "Gen Neo", which expresses the cluster's ambition to foster the next generation of innovators through the reinvention of real estate offerings and experiences.

CapitaLand envisions Geneo to be the stage that brings researchers, scientists and knowledge workers together to make a positive impact. This vision is represented by the Geneo logo, which features a merging of chromosomes and a spark, and its tagline "Where Ingenuity Comes to Life".

The three properties in Geneo are, namely:

- **1 Science Park Drive** comprises three Grade-A buildings linked by an event plaza, offering about 112,600 sq m of workspace as well as 3,600 sq m of retail and food & beverage amenities. It occupies a prime location at the main entrance of SSP and is seamlessly linked to the Kent Ridge MRT station by an underground connection. Targeting for completion by 2025, the project is owned by a 66:34 joint venture between CLD and CLAR.
- **5 Science Park Drive**, owned by CLD, is a future-ready business park building featuring collaborative workspaces and lifestyle amenities with a total GFA of about 25,600 sq m. Completed in 2019, it currently houses the headquarters of Shopee, the leading e-commerce online shopping platform in Southeast Asia and Taiwan.
- **7 Science Park Drive**, owned by CLD, is a mixed-used development targeted for completion in 2024. It houses about 28,800 sq m of workspace and 10,000 sq m of serviced residence with a hotel licence.

Specialised life sciences real estate catering to robust demand

Catering to the robust demand for quality life sciences real estate in Asia Pacific, about 80,000 sq m of Geneo's workspace are purpose-built to accommodate biomedical R&D activities, with specifications like exhaust risers to the roof to meet ventilation requirements, multiple floor traps for dry or wet laboratory configurations and high floor loading to accommodate laboratory and research equipment. To support emerging life sciences start-ups, Geneo will host CapitaLand's first coworking laboratory space in Singapore featuring flexible shared laboratory space equipped with common laboratory equipment and facilities.

Green credentials meeting the needs of sustainability-minded tenants

7 Science Park Drive has achieved the BCA Green Mark Platinum Super Low Energy certification from the Building and Construction Authority (BCA). It is the first CapitaLand greenfield project

and first SSP property to be accorded this certification, the latest feather in the cap for SSP 1, the first existing business park to receive recertification for BCA Green Mark Platinum for Districts. SSP 1 is one of only two existing districts to have achieved this prestigious award. The other two properties in Geneo have obtained the BCA Green Mark Platinum certification.

Geneo is provisionally designed to achieve energy savings of about 13 million¹ kilowatt-hours (kWh) per year, equivalent to powering the annual electricity consumption of over 3,343 four-room HDB flats. Key sustainability features include SSP's first distributed district cooling network in partnership with SP Group, as well as 1,400 rooftop photovoltaic solar panels that generate an estimated 1.1 million kWh of renewable energy each year – equivalent to powering the annual electricity consumption of 236 four-room HDB flats.

In addition, Geneo adopts thoughtful design strategies that maximise building users' comfort while minimising energy use. For instance, the closely knitted u-shaped arrangement of the various buildings and the design of their accordion façade help to block out sunlight, thus reducing the amount of heat trapped within the buildings. With a total landscape area of more than 21,000 sq m, equivalent to about 33% of its site area of about 64,000 sq m, Geneo's abundant greenery also helps to reduce the urban heat island effect while enhancing SSP's biodiversity.

Furthermore, water-efficient fittings are adopted throughout Geneo and rainwater is harvested for non-potable uses. An auto-irrigation system is also employed to optimise water usage for landscaping. With these provisions, Geneo's estimated annual potable water savings are sufficient to provide the water supply for 190 four-room HDB flats for a year.

Holistic work-live-play elements to enliven SSP

Geneo is set to further enliven SSP with the provision of about 3,600 sq m of retail and food & beverage amenities. Geneo will also introduce SSP's first lodging facility, Citadines Science Park Singapore, a serviced residence with hotel licence operated by The Ascott Limited, a lodging business unit wholly owned by CapitaLand Investment. Located at 7 Science Park Drive, Citadines Science Park Singapore is slated to welcome guests from 1Q 2024. It will offer 250 studio, studio loft and studio premier apartments as well as facilities such as a cafe, an indoor gymnasium, meeting rooms, a residents' lounge, a restaurant, a shared working space and a swimming pool.

Even as the park population and amenities continue to grow, CapitaLand is committed to preserve SSP's trademark lush urban campus ambience. Geneo will offer abundant communal spaces, including a naturally ventilated event plaza with verdant landscaping. Covered by a dramatic louvered glass canopy and timber structures, the event plaza serves as a relaxing place to hang out and doubles up as a setting for large-scale community events.

¹ The energy savings exclude energy offsets from renewable energy.

To encourage active lifestyles, Geneo provides a diverse range of fitness and recreational facilities, including a basketball court, a yoga deck, a running track that circles the perimeter of Geneo and a 25-metre lap pool in Citadines Science Park Singapore. For workouts with a twist, the “MyEquilibria” fitness corner in 5 Science Park Drive features a seven-metre-tall sculpture that doubles up as an outdoor fitness system. In support of the sustainable transport vision in the Singapore Green Plan 2030, Geneo will offer 466 bicycle lots and 14 electric vehicle charging lots, as well as a dedicated 490-metre cycling path that is linked to nearby park connectors.

Sustainable and innovative construction

In line with CapitaLand’s commitment to sustainability, Geneo adopts several low carbon technologies and sustainable innovations during the construction process. To lower Geneo’s embodied carbon footprint, mass engineered timber (MET) harvested from sustainably managed forests is used to construct the canopies and columns at Geneo’s event plaza. Compared to traditional construction materials, MET produces relatively lower net carbon emissions, with an estimated embodied carbon savings of 88% over steel and 63% over concrete. When completed, Geneo’s 3,000 sq m all-weather event plaza measuring 27 metres in height will be Singapore’s tallest MET canopy structure.

In addition, certified Singapore Green Building Product (SGBP) materials such as green concrete, architectural finishes and M&E equipment are used in the construction of Geneo. These help to improve indoor air quality and reduce energy consumption, making it healthier and more cost effective for building occupants. On top of being the first CapitaLand project to adopt carbon dioxide mineralised concrete, Geneo is the first project in Singapore to use this green concrete for superstructure works including vertical elements, resulting in an estimated 28% reduction in embodied carbon. Carbon dioxide mineralised concrete is a type of low-carbon sustainable concrete that uses carbon capture and utilisation technology to chemically convert carbon dioxide into a mineral embedded in concrete, producing harder concrete.

Instead of diesel generators, a battery energy storage system is used at Geneo’s construction site to provide power to construction machinery, lowering carbon emissions by about 78% while maintaining a productive worksite.

Nurturing SSP’s innovation ecosystem with showcase and networking opportunities

As SSP enters its fifth decade, the park community can look forward to more showcase and networking opportunities organised by CLD with its partners including Smart Urban Co-innovation Lab, Southeast Asia’s first industry-led laboratory for smart cities solutions development located in The Galen building at SSP, and Catapult, Southeast Asia’s first shared executive learning centre located in Rochester Commons.

An example is “Flavours of Tomorrow: Tasting Tomorrow’s Nosh”, an initiative by CLD and NUS Enterprise, the entrepreneurial arm of the National University of Singapore, that supports development of Singapore’s agrifood-tech industry. The initiative offers SSP tenant community a

chance to sample a range of novel ingredients and flavours as well as gain insights to the product development process, while serving as a platform for the participating agrifood-tech start-ups and companies to discuss their latest innovations and connect with fellow industry players.

CLD will also make “Innovation Made Real”, which debuted last year, a staple event on SSP’s annual calendar. Featuring dialogue sessions as well as special exhibits and workshops by partners of SSP, Innovation Made Real is aimed at providing members of the SSP innovation ecosystem with a platform to showcase their endeavours to potential partners in SSP and beyond.

Please refer to **Annex A** for more details on Geneo’s sustainability features, and **Annex B** for visuals illustrating Geneo’s design highlights.

About CapitaLand Group (www.capitaland.com)

CapitaLand Group (CapitaLand) is one of Asia’s largest diversified real estate groups. Headquartered in Singapore, CapitaLand’s portfolio focuses on real estate investment management and real estate development, and spans across more than 260 cities in over 40 countries.

Within its ecosystem, CapitaLand has developed an integrated suite of investment management and operating capabilities that supports its real estate businesses and platforms in building core competencies across the real estate value chain. With this full stack of capabilities, CapitaLand can optimise the strategies of its listed real estate investment management business CapitaLand Investment, and its privately held property development arm CapitaLand Development; to drive competitive advantage for its businesses.

CapitaLand places sustainability at the core of what it does. As a responsible real estate company, CapitaLand contributes to the environmental and social well-being of the communities where it operates, as it delivers long-term economic value to its stakeholders.

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Issued by: CapitaLand Group Pte. Ltd. (Co. Regn.: 198900036N)

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Annex A – Geneo’s sustainability features

Geneo comprises people-centric, resource-efficient and future-ready buildings where passive and active design strategies work seamlessly together to achieve the maximum positive outcomes.

Overall, Geneo is provisionally designed to achieve energy savings of about 13 million kilowatt-hours (kWh) per year, equivalent to powering the annual electricity consumption of over 3,343 four-room HDB flats. Meanwhile, Geneo’s estimated annual potable water savings are sufficient to provide the water supply for 190 four-room HDB flats for a year.

Geneo’s key sustainability design features are as follows:

- *Distributed district cooling network*

Geneo is the first cluster of buildings in Singapore Science Park to adopt a distributed district cooling network. In partnership with SP Group, the sustainable cooling solution will help Geneo to reduce carbon emissions, enhance reliability and improve cooling-related energy-efficiency. Instead of having an individual chiller system for each building, economies of scale are achieved by centralising cooling plants that distribute chilled water to all five buildings through a network of pipes to provide air conditioning.

- *Photovoltaic solar panels*

To offset energy demand, the roof-level layout of the mechanical and electrical (M&E) system has been optimised to fit approximately 1,400 photovoltaic solar panels that generate an estimated 1.1 million kWh of renewable energy each year – equivalent to powering the annual electricity consumption of 236 four-room HDB flats.

- *Design strategies to minimise energy use*

Geneo’s layout has been carefully oriented to minimise heat gain from the sun. The closely knitted u-shaped arrangement of the various buildings and the design of their accordion facade help to block out sunlight, thus reducing the amount of heat trapped within the buildings. This arrangement also helps to channel wind to naturally ventilate the event plaza.

- *Central gardens and water features*

To enhance the biodiversity of Singapore Science Park, two verdant central gardens and a pair of water bodies provide Geneo with an ecological connection to the nearby Kent Ridge Park. Greeting visitors at the Geneo arrival area is a cascading water fountain bedecked with lush foliage along the edges of its planters. Dubbed the “biodiversity island”, it features vibrant trees with colourful and textured bark, serving as a sanctuary for wildlife with native plants that attract birds and butterflies. The other water body takes the form of a naturalistic stream adorned with boulders and river cobbles that will be home to various aquatic plants and fishes.

- *Abundant greenery to reduce the urban heat island effect*

With a total landscape area of more than 21,000 sq m, equivalent to about 33% of its site area of about 64,000 sq m, Geneo's abundant greenery also helps to reduce the urban heat island effect. Approximately 80% of the trees planted along Geneo's site boundary are native species, specifically chosen to attract local birdlife, butterflies, squirrels and other fauna. In addition, foliage trees are planted to soften the appearance of the built structures and provide shade for pedestrians. Besides a lushly planted landscape deck that runs the entire length of Geneo, there are also walking paths in the central gardens that offer visitors a respite from the hustle and bustle of everyday life.

- *Encouraging low carbon mobility*

In support of the sustainable transport vision in the Singapore Green Plan 2030, Geneo has catered for several low carbon mobility options. These include 466 bicycle lots complemented with end-of-trip shower and locker facilities, as well as 14 electric vehicle charging lots with options for alternating current (AC) and direct current (DC) chargers. Users of public transport will enjoy a covered walkway to the Kent Ridge MRT station and nearby bus stop, while cyclists may utilise the dedicated 490-metre cycling path and park connector that is linked to the nearby Kent Ridge Park and other linear green corridors that are part of the National Park Board's island-wide Round Island Route.

- *Promoting active lifestyles*

To encourage the park community to lead active lifestyles, Geneo provides a diverse range of fitness and recreational facilities. These include a basketball court, a yoga deck, a running track that circles the perimeter of Geneo and a 25-metre lap pool in Citadines Science Park Singapore. For workouts with a twist, fitness enthusiasts can visit the "MyEquilibria" fitness corner located in 5 Science Park Drive. Designed by Italian artist Vito Di Bari, MyEquilibria features a seven-metre-tall sculpture which doubles up as an outdoor fitness system that supports an array of over 500 different forms of exercise from nine sports disciplines, including callisthenics and yoga.



- *Water savings initiatives*

Water-efficient fittings are adopted throughout Geneo and rainwater is harvested for non-potable uses. An auto-irrigation system is also employed to optimise water usage for landscaping.

- *Live energy and water carbon footprint dashboard*

A live energy and water dashboard will be integrated with the Building Management System to track the real-time energy and water carbon footprint of the Geneo buildings. The live dashboard will be placed at prominent location to enhance the environmental awareness of the building users and engage their support for Geneo's green initiatives.

Annex B – Geneo’s design highlights

	<p>Geneo comprises three properties with five state-of-the-art sustainable buildings at various stages of completion, which will offer about 180,600 sq m of gross floor area with work-live-play elements when fully completed in 2025.</p>
	<p>Geneo will introduce Science Park’s first lodging facility, Citadines Science Park Singapore, a serviced residence with hotel licence. Located at 7 Science Park Drive and opening in 1Q 2024, Citadines Science Park Singapore will offer 250 studio, studio loft and studio premier apartments as well as facilities such as a cafe, an indoor gymnasium, meeting rooms, a residents’ lounge, a restaurant, a shared working space and a swimming pool.</p>
	<p>Geneo will offer abundant communal spaces, including a naturally ventilated event plaza with verdant landscaping. Covered by a dramatic louvered glass canopy and timber structures, the event plaza serves as a relaxing place to hang out and doubles up as a setting for large-scale community events.</p>
	<p>Mass engineered timber (MET) harvested from sustainably managed forests is used to construct the canopies and columns at Geneo’s event plaza. When completed, Geneo’s 3,000 sq m all-weather event plaza measuring 27 metres in height will be Singapore’s tallest MET canopy structure.</p>



Upholding Science Park’s trademark lush urban campus ambience, Geneo features a total landscape area of more than 21,000 sq m, equivalent to about 33% of its site area of about 64,000 sq m. The abundant greenery also helps to reduce the urban heat island effect.

Approximately 80% of the trees planted along Geneo’s site boundary are native species, specifically chosen to attract local birdlife, butterflies, squirrels and other fauna.



To enhance Science Park’s biodiversity, two verdant central gardens and a pair of water bodies provide Geneo with an ecological connection to the nearby Kent Ridge Park. Greeting visitors at the Geneo arrival area is a cascading water fountain bedecked with lush foliage along the edges of its planters. Dubbed the “biodiversity island”, it features vibrant trees with colourful and textured bark, serving as a sanctuary for wildlife with native plants that attract birds and butterflies.



The other water body takes the form of a naturalistic stream adorned with boulders and river cobbles that will be home to various aquatic plants and fishes.



Geneo provides a diverse range of fitness and recreational facilities for the park community. This is a photo of the “MyEquilibria” fitness corner in 5 Science Park Drive. Designed by Italian artist Vito Di Bari, it features a seven-metre-tall sculpture which doubles up as an outdoor fitness system that supports an array of over 500 different forms of exercise from nine sports disciplines, including callisthenics and yoga.



In support of the sustainable transport vision in the Singapore Green Plan 2030, Geneo has catered for several low carbon mobility options. These include 466 bicycle lots complemented with end-of-trip shower and locker facilities (shown here), as well as 14 electric vehicle charging lots with options for alternating current and direct current chargers.



Geneo is set to further enliven Science Park with the provision of about 3,600 sq m of retail and food & beverage amenities. Shown here is an artist's impression of the underground pedestrian link between 1 Science Park Drive and Kent Ridge MRT station.