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Smart Urban Co-Innovation Lab, Southeast Asia's first industry-led lab for smart cities solutions development, opens in CapitaLand's Singapore Science Park

CapitaLand and its industry partners commit up to S\$10 million as a start to catalyse solutions development and deployment locally and overseas

Singapore, 28 October 2020 – The Smart Urban Co-Innovation Lab, Southeast Asia's first industry-led lab for smart cities solutions development, initiated by CapitaLand and supported by the Infocomm Media Development Authority (IMDA) and Enterprise Singapore (ESG), is officially opened today by Minister for Communications and Information, Mr S Iswaran. The Smart Urban Co-Innovation Lab will bring together leaders in the smart cities space to co-create and test innovations with local built environment and technology enterprises in a live environment at CapitaLand's 5G-enabled Singapore Science Park. CapitaLand, together with its industry partners, has committed up to S\$10 million in the Lab as a start to catalyse development and deployment of smart cities solutions in Singapore and overseas.

The Smart Urban Co-Innovation Lab, powered by the latest technologies and 5G connectivity, is set to benefit some 200 companies in Singapore over the next three years. Located at The Galen at Singapore Science Park, the Smart Urban Co-Innovation Lab is envisioned to be a key nexus of business partnerships and opportunities. The Lab will function as a resource integrator of various ecosystem players - local technology startups, system integrators and global corporate enterprises - to co-create solutions for smart cities, from ideation to testing to commercialisation. This collaborative model provides a platform for local and overseas companies to exchange ideas, identify opportunities for new business models and innovations, as well as facilitate deployment of smart cities solutions.

Currently, the Lab has secured 30 industry players such as Amazon Web Services, Cisco Systems, Johnson Controls, Microsoft, MooVita, NavInfo DataTech, Schneider Electric, SPTel, TPG Telecom and Vizzio.AI, to commit to partnering local firms to co-innovate, test ideas in the Lab or pilot trials at the 55-hectare Singapore Science Park, the largest site in Singapore for trials of smart cities solutions.

The Lab will focus on six key industry verticals of advanced manufacturing, digital wellness, intelligent estates, smart mobility, sustainability, and urban agriculture.

Mr Manohar Khiatani, Senior Executive Director, CapitaLand Group, said: "As one of Asia's largest diversified real estate groups with a global portfolio and network of partners, CapitaLand is in a strong position to bring together key industry players to support Singapore's drive towards building a smart city. This living lab at our Singapore Science Park provides unique opportunities for collaboration and co-innovation with access to an ecosystem of innovators and thinkers, and the community of people working at the park and beyond. Our

partners can potentially leverage CapitaLand's significant scale by piloting their projects at our properties in Singapore and overseas. The Smart Urban Co-Innovation Lab is also part of our ongoing efforts to ensure that CapitaLand remains at the forefront of technology developments so as to bring innovative and sustainable real estate products and services to our customers."

Ms Jane Lim, Assistant Chief Executive, IMDA, said: "The Smart Urban Co-Innovation Lab reinforces Singapore's strengths as a deep innovation ecosystem where tech, industry and government work together to co-create and accelerate solutions for smart cities solutions. The Lab is starting strong with 30 partners including major industry players and promising local enterprises coming onboard along with CapitaLand. These are the new opportunities we are seizing in a digital economy, that will enable us to emerge stronger."

Ms Eunice Koh, Assistant Chief Executive Officer, Enterprise Singapore, said: "The COVID-19 pandemic has accelerated the demand for sustainable urban solutions that contribute to the building of resilient and safe cities of tomorrow. Through the Smart Urban Co-Innovation Lab, smart tech providers can work on innovative solutions that have the potential to change people's lives for the better. For instance, Smarten Spaces, a Singapore SME tech provider introduced by Enterprise Singapore, has been working with KONE on unique innovations that use contactless and other technologies to help building owners and managers provide a safe work environment for their tenants and employees. We will continue to work with our SMEs to tap on such opportunities and find the right partners to scale their solutions."

Please refer to Annex A for more information on features of the Smart Urban Co-Innovation Lab, Annex B for information on selected smart city projects at the Lab, and Annex C for the list of 30 partners of the Smart Urban Co-Innovation Lab.

About CapitaLand Limited (www.capitaland.com)

CapitaLand Limited (CapitaLand) is one of Asia's largest diversified real estate groups. Headquartered and listed in Singapore, it owns and manages a global portfolio worth about S\$134.7 billion as at 30 June 2020. CapitaLand's portfolio spans across diversified real estate classes which includes commercial, retail; business park, industrial and logistics; integrated development, urban development; as well as lodging and residential. With a presence across more than 220 cities in over 30 countries, the Group focuses on Singapore and China as its core markets, while it continues to expand in markets such as India, Vietnam, Australia, Europe and the USA.

CapitaLand has one of the largest real estate investment management businesses globally. It manages seven listed real estate investment trusts (REITs) and business trusts as well as over 20 private funds. Since it pioneered REITs in Singapore with the listing of CapitaLand Mall Trust in 2002, CapitaLand's REITs and business trusts have expanded to include Ascendas Real Estate Investment Trust, CapitaLand Commercial Trust, Ascott Residence Trust, CapitaLand Retail China Trust, Ascendas India Trust and CapitaLand Malaysia Mall Trust.

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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About Infocomm Media Development Authority

The Infocomm Media Development Authority (IMDA) leads Singapore's digital transformation with infocomm media. To do this, IMDA will develop a dynamic digital economy and a cohesive digital society, driven by an exceptional infocomm media (ICM) ecosystem – by developing talent, strengthening business capabilities, and enhancing Singapore's ICM infrastructure. IMDA also regulates the telecommunications and media sectors to safeguard consumer interests while fostering a pro-business environment, and enhances Singapore's data protection regime through the Personal Data Protection Commission.

For more news and information, visit www.imda.gov.sg or follow IMDA on Facebook [IMDAsg](https://facebook.com/IMDAsg) and Twitter [@IMDAsg](https://twitter.com/IMDAsg).

About Enterprise Singapore

Enterprise Singapore is the government agency championing enterprise development. The agency works with committed companies to build capabilities, innovate and internationalise.

It also supports the growth of Singapore as a hub for global trading and startups, and builds trust in Singapore's products and services through quality and standards.

Visit www.enterprisesg.gov.sg for more information.

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Annex A

About Smart Urban Co-Innovation Lab

The Smart Urban Co-Innovation Lab is the first industry-led lab in Southeast Asia focused on smart cities solutions. Initiated by CapitaLand and supported by Infocomm Media Development Authority and Enterprise Singapore, it aims to provide a 'real world' living lab at the 55-hectare 5G-enabled Singapore Science Park and 'nerve centre' platform for industry players to identify and share problem statements. Industry players can also collaborate with technology players to discover, develop, demonstrate and deploy new and innovative solutions in Singapore as well as overseas.

By bringing together six industry verticals of advanced manufacturing, digital wellness, intelligent estates, smart mobility, sustainability, and urban agriculture, as well as enabling technologies such as artificial intelligence, 5G, and cloud, the Lab gives the industry the ability to develop new capabilities and pursue future-ready cross-industry opportunities.

Designed to further enhance Singapore's innovation ecosystem by focusing on close-to-market activities, the Smart Urban Co-Innovation Lab will initiate call-for-proposals, workshops as well as facilitate proof-of-concepts and deployment.

Key features of the Smart Urban Co-Innovation Lab include:

- Infrastructure
 - Outdoor and indoor 5G standalone network coverage
 - Global Navigation Satellite System base stations
- Data
 - Access to both Microsoft Azure and Amazon Web Services cloud services
 - Access to multiyear building data from CapitaLand as well as data sandboxes by partners
- Services/Activities
 - i. Collaboration, outreach programmes, and innovation services
 - Industry sharing sessions
 - Corporate innovation services, supporting the scoping and definition of challenge statements
 - Industry challenge calls
 - Showcase and product demonstration services
 - ii. Proof-of-concept and deployment services
 - User and solution provider matching services
 - Grant applications support
 - Testbed site support in Singapore Science Park
 - iii. Lab facilities
 - Meeting rooms, training rooms and simulation rooms

Annex B

Highlights of projects at the Smart Urban Co-Innovation Lab

Industry vertical: Intelligent estates

Partners: CapitaLand, Automated Lifestyle and Schneider Electric

Project: Office of the future

Summary of project

CapitaLand has teamed up with Automated Lifestyle (systems integrator) and Schneider Electric (equipment/technology provider) to create an open, continuous co-innovation platform to track, visualise and control the various workplace comfort and sustainability solutions such as energy usage, carbon dioxide and volatile gas levels, lighting, and air conditioning. This platform will allow current and future partners to add new features, new equipment, new sensors, as well as utilise the usage data to implement machine learning and artificial intelligence, to further enhance efficiency, customer experience and generate sustainability reports, etc. This is a unique and useful platform to enable co-innovation for the office of the future.

Industry vertical: Smart mobility

Partners: IMDA, CapitaLand, NavInfo DataTech and TPG Telecom

Project: 5G-enabled Cellular Vehicle-to-Everything technologies for autonomous vehicles

Summary of project

CapitaLand has partnered IMDA, NavInfo DataTech and TPG Telecom to set up Singapore's largest 5G smart estate trial site at CapitaLand's Singapore Science Park. The partners are the first in Southeast Asia to develop and testbed 5G-enabled Cellular Vehicle-to-Everything (C-V2X) technologies for intelligent mobility solutions in a commercial space. Since March 2020, TPG Telecom has deployed an advanced 5G standalone trial network across Singapore Science Park. NavInfo DataTech has developed high definition maps and is installing high precision Global Navigation Satellite System to augment existing Global Positioning Satellite Systems to improve precision mapping and positioning to enhance road safety. There will be trials on the ability of 5G and cloud technologies to receive and process real-time sensor data from autonomous vehicles on the road. These technologies are key to the future of autonomous vehicles.

Industry vertical: Sustainability

Project: 'CapitaLand Sustainability X Challenge'

Summary of project

Sustainability, being one of the core verticals supported by the Smart Urban Co-Innovation Lab, is one of the key areas where innovative projects and solutions will be explored. Launched on 1 October 2020, in conjunction with CapitaLand's 2030 Sustainability Master Plan, the inaugural 'CapitaLand Sustainability X Challenge' will source for innovations on a global scale to meet CapitaLand's sustainability targets aligned with business needs as set out in its Sustainability Master Plan. Two winners will be selected, and each winner will receive up to S\$50,000 in project funding to further develop their innovations and pilot their solutions with CapitaLand. Suitable companies can also leverage the Lab in Singapore to test ideas and pilot innovation solutions for commercialisation, with government funding available for eligible projects. For more information on 'CapitaLand Sustainability X Challenge', please visit: www.capitalandsustainabilityxchallenge.com.

Annex C

List of 30 partners of the Smart Urban Co-Innovation Lab

- Advancer
- Amazon Web Services
- Anacle
- Automated Lifestyle
- Azbil
- Certis
- Cisco Systems
- Delta Electronics
- DHL
- Digital Business Innovation Center of Japan
- Garuda Robotics
- GeoWorks
- Haier
- Johnson Controls
- KONE
- Mercuria Investment
- Microsoft
- MooVita
- NavInfo Datatech
- Panasonic
- SBI Venture Capital
- Schneider Electric
- Singapore Polytechnic
- Singapore Space & Technology Ltd
- Sinomach Group
- SmartClean
- SP Group
- SPTel
- TPG Telecom
- Vizio.AI