IMDA SMART ESTATES EFFORTS

According to IDC, US$43.5 billion will be invested in smart cities development by 2021 in smart cities technologies in Asia-Pacific (excluding Japan). A smart city is made up of many interconnected estates. As part of IMDA's digital economy efforts to strengthen Singapore's position as a leading global node for technology and innovation, IMDA is working with developers to improve sustainability, operational efficiency and customer experience.

IMDA will also work with local technology providers and Built Environment service providers to co-create and testbed new and innovative urban solutions in Singapore with the aim to seize the market opportunities in the region.

This will help build local technology companies' capabilities in the areas of deep technology for smart cities solutions such as Artificial Intelligence, Augmented and Virtual Reality (AR/VR), Internet-of-things, and Vehicle-to-Everything (V2X). IMDA's efforts can be categorised into the below three drivers:

1. **Building Technology Capabilities and Innovation**

IMDA has launched Smart Estates Technology Call for Innovative Solutions (CFIS) to create opportunities for Singapore-based technology providers, developers and Built Environment companies such as security and cleaning service providers, to co-develop and trial estate-level projects in Singapore. IMDA has set aside S$14 million over the next three years to support the development of new urban technologies and applications to meet the needs of smart estates.

   a. **Security Call for Innovative Solutions**
   - IMDA and the Ministry of Home Affairs jointly-launched and awarded the security CFIS in October, 2018. IMDA set aside S$2.5 million for five innovative projects, for appointed technology providers to partner building owners and security agencies to pilot innovative technology such as Artificial Intelligence, Data Analytics, and Internet-of-Things, to address key challenges outlined in the Security ITM.

   b. **Smart Estates Call for Innovative Solutions**
   - In Nov 2018, IMDA launched a joint technology call with Ascendas-Singbridge Group and JTC to bring estate developers and technology companies together to tackle problem statements and pilot innovative urban solutions at their respective sites. IMDA will announce the results of the CFIS in the coming months.

- More information of the Smart Estates Technology Call with Ascendas-Singbridge and JTC, (https://www.imda.gov.sg/about/newsroom/media-releases/2018/imdas-technology-call-to-boost-development-of-smart-estate-projects).

More technology grant calls will be launched subsequently.

2. Strengthening business partnerships and building the smart estates ecosystem

IMDA will form strategic public private partnerships to build the local smart estates ecosystem and infrastructure. This includes the formation of the Smart Urban Co-Innovation Lab, led by Ascendas-Singbridge Group and supported by IMDA and Enterprise Singapore.

Through new strategic partnerships, IMDA and Enterprise Singapore will work with large enterprises to help local developers and technology providers to gain market access to regional business opportunities. Successful pilots conducted in Singapore will enable local smart estate solutions to be productised and exported overseas.

3. Developing Smart Estates talent

The smart estates job of tomorrow requires new skills and competency for jobs that may not exist today such as digital master planning, digital processes, smart facilities management and the use of Artificial Intelligence in the planning and management of smart estates. IMDA aims to work closely with the industry, other government agencies and Institutes of Higher Learning to train talents in the Built Environment sector and deploy them to execute technology projects with pilot developers. More information will be made available later in 2019.

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About Infocomm Media Development Authority (IMDA)

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.

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