

Fact Sheet

CALL FOR INNOVATIVE URBAN SOLUTIONS FOR SMART ESTATE

Smart environment, smart enterprises and smart living are the building blocks for IMDA's vision of smart estates.

Smart environment

- A smart environment through integrated facility management can help developers and facility owners harness data from various sensors and IoT devices within the estate, and with the data, embark on innovative services or operations. The creation of digital twins for modelling and simulation, integrated control & surveillance, on-demand lighting and cooling for energy efficiency, this will enable smart enterprises and smart living.

Smart enterprises

- Becoming a smart enterprise can help to alleviate high demand on resources and manpower. For instance, a new generation of unmanned shops and cleverly designed networks of Unmanned Aerial Vehicles (UAVs) and Automated Guided Vehicles (AGVs) can lighten the load on manpower demands and deliver a better service experience to customers.

Smart living

- A smart estate of the future can empower communities and residents to have greater accessibility to technology. An integration of technology through biometric payment, autonomous transport can help to deliver personalised services and will provide a more meaningful experience for smart living.

Identified JTC trial sites

- one-north, a work-live-play-learn estate developed by JTC, has been selected as one of the estates for the trials. It is home to a vibrant community of about 50,000 knowledge workers, researchers, entrepreneurs and students. The estate is also a living lab where start-ups, technology owners and research institutions can leverage opportunities to test-bed their latest urban solutions including autonomous vehicles,

drones and personal mobility device sharing systems. The technological and innovation business park is an ideal location to test varying urban environment complexities as it comprises various typologies of buildings and flexible public spaces such as open plazas and parks.

- LaunchPad @ one-north
 - With an estimated land area of 40,000m² and an estimated footfall of 50,000 per month, Block 67, 71, 73, 77, 79 & 81 Ayer Rajah Crescent will be part of the trial sites. This also includes Timbre+, various shared meeting rooms, the shared event hall and many more.
- Fusionopolis One @ one-north
 - An estimated land area of 12,073m², with an estimated footfall of 10,000 a month, this site offers F&B outlets, supermarket, a food court as well as shared seminar rooms, the one-north Gallery, and the Genexis Theatre.
- LaunchPad @ Jurong Innovation District
 - Located at 2 Cleantech Loop, this estimated 3,273m² land area with a footfall of 4,200 per month will allow for technology to be piloted at CleanTech park and F&B outlets.

Identified Ascendas-Singbridge Group Trial Sites

- As a leading sustainable urban development and business space solutions provider, Ascendas-Singbridge Group has launched several technology initiatives to improve sustainability and operational efficiency in its properties. The usage of IoT, data and video analytics to trigger alerts and predict future usage have helped to ensure timely response to building incidents and maximise space allocation. A central content management server has also been put in place to increase interactivity with customers and ensure timeliness in content updates at its buildings. These technologies are currently deployed in Singapore and India, with plans to extend to the Group's properties in China and Korea as well.

- Singapore Science Park 1
 - Located at Singapore Science Park drive with an estimated land area of 300,000 sqm, and average park population of 7,500, trials will be carried out at one of the 17 buildings in the Park, based on the solutions provided and the suitability of the buildings for these solutions.
- Singapore Science Park 2
 - With an estimated land area of 250,000 sqm, and average park population of 5,000, trials will be carried out at one of the 12 buildings in the Park, based on the solutions provided and the suitability of the buildings for these solutions.
- Fusionopolis One
 - An estimated land area of 12,073m², with an estimated footfall of 10,000 a month, this site offers F&B outlets, supermarket, a foodcourt as well as Seminar rooms, one-north Gallery, and Genexis Theatre
 - Trials can be carried out at Galaxis, a 17-storey Business Park and Office Space, and with an estimated footfall of 5,000.

Proposals for smart estate projects:

- IMDA encourages Singapore-based technology providers to collaborate with developers and facility owners to use technology to address industry gaps and transform estates so as to create greater positive outcomes. The pilot projects from this call must demonstrate the impact technology can make and be eventually commercialised for existing and future estates.

More information on the technology call can be found at

www.imda.gov.sg/callforinnovativesolutionsforsmartestates. Submissions open from 1 December, 2018 and close on 31 March 2019.