

Fact Sheet

**IMDA AND MHA AWARD FUNDING TO FOUR
INNOVATIVE TECHNOLOGY SOLUTIONS**

(A) Call for Innovative Solutions (CFIS)

The Security Industry Transformation Map (ITM) was launched by the Ministry of Home Affairs (MHA) in February 2018 to accelerate the security industry’s digital transformation. As part of the ITM, the Infocomm Media Development Authority (IMDA) and the Ministry of Home Affairs (MHA) jointly issued a Call for Innovative Solutions (CFIS) to encourage technology providers to co-create new digital technology solutions with the security sector.

IMDA has set aside S\$2.5 million for four innovative projects. The appointed technology providers will be partnering with 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) Innovative Solutions Aimed to Reimage the Security Sector

Consortium led by	About the CFIS Project
<p>1. Vi Dimensions Pte Ltd</p> <p>In partnership with CapitaLand Retail Management Pte Ltd and Gold Ridge Pte Ltd (NEX).</p>	<p>Vi Dimensions’ automated surveillance monitoring system will be piloted at six CapitaLand malls and NEX shopping mall.</p> <p>The project aims to transform the business and operating models of the security sector through automated security surveillance monitoring and detecting abnormal events 24/7. The new solution is also expected to:</p> <ol style="list-style-type: none"> 1. Reduce reliance on security manpower in Central Command Centres and patrolling tasks; 2. Reduce bandwidth utilisation in transmitting video data; 3. Cloud-based for dynamic scaling and access analytics results anywhere; 4. Address CapitaLand’s and NEX’s specific use-cases onsite; and



	5. Identify user-specified scenarios such as a person who is not wearing a safety helmet
<p>2. Xjera Labs Pte Ltd</p> <p>In partnership with Ademco (Far East) Pte Ltd, Certis Technology (Singapore) Pte Ltd, Changi Airport Group</p>	<p>Xjera's Labs Multi-Signal Surveillance Platform (MSS) prototype will be piloted indoors at Changi Airport.</p> <p>This project aims to enable automated security surveillance by combining video analytics with audio intelligence to reduce false positive alerts in indoor environments and thus reduce manual monitoring of video feeds on-screens. The new solution is expected to:</p> <ol style="list-style-type: none"> 1. Reduce reliance on security manpower and reduce fatigue, patrolling tasks and operation costs in managing a site; 2. Increase response times of security officers on-site; 3. Reduce bandwidth utilization in transmitting video data via Edge Computing; and 4. Address Certis Technology's specific use-cases on-site
<p>3. uberGARD Pte Ltd</p> <p>In partnership with Secom (Singapore) Pte Ltd.</p>	<p>uberGARD's New Generation Key Management Systems aims to offer a better alternative to the use of physical keys through automated key retrieval and key-press access. The system's features include anomaly detection, auto IRIS and facial recognition access control. This prototype will be piloted at Secom's (Singapore) premises. The new solution is expected to:</p> <ol style="list-style-type: none"> 1. Reduce reliance on security manpower in managing the keypress for sites; and 2. Enable data collection tracking and detection of abnormal access or retrieval of keys based on past user key access history
<p>4. ARKemis Pte Ltd</p> <p>In partnership with Advertent Security Pte Ltd.</p>	<p>ARKemis' SSOps.com will pilot the prototype at Advertent Security's Command Centre, the Sommerville Grandeur condominium and Synergy Hub at Kaki Bukit premises. The new digital solution will help to digitalise the security workflow and processes by:</p> <ol style="list-style-type: none"> 1. Reducing reliance on security manpower in managing a site; 2. Ensuring compliance with Police Licensing & Regulatory Department (PLRD) regulatory grading requirements; 3. Enabling realistic red-teaming exercises for security officers training; and 4. Addressing Advertent Security's specific use-cases on-site

(C) About the Awarded Technology Providers

Vi Dimensions, www.widimensions.com

Vi Dimensions, an SG:D Accredited company under IMDA's Accreditation@SG Digital programme, was founded in 2015. It aims to use cameras and video analytics to improve security operations. Vi Dimensions' flagship product, Abnormality Recognition Video Analytic System (ARVAS) uses a self-learning algorithm which does not require the surveillance operator to pre-define any rules for real-time detection.

Xjera Labs, www.xjeralabs.com

Xjera is an AI Video Analytics company with offices in Singapore and in the region. Using its proprietary Xjera Brain system, Xjera has developed video analytics solutions for various applications including security, retail, construction etc. Xjera is also providing AI-as-a-Service to empower companies in niche verticals. The company is also SG:D Accredited under IMDA's Accreditation@SG Digital programme and has forged partnerships with all the leading System Integrators in Singapore. It also works closely with global partners including HP Enterprise, Huawei, NVidia and Renesas.

uberGARD, www.ubergard.com

Established in 2008, uBerGARD launched their first product, the Intelligent Key Lock Application System (iKLAS), a web-based key management system that controls and tracks the usage and movement of keys. uBerGARD system is sold in more than 12 countries worldwide and has its own R&D team.

ARKemis, <https://arkemis.co>

ARKemis is a Singapore start-up offering sustainable and scalable IT platforms which are methodology driven to address public safety needs. ARKemis' advanced IOT sensor platform supports a variety of operating systems.

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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For media clarifications, please contact:

Aung Thi Ha (Mr)
Assistant Manager, Communications and Marketing, IMDA
DID: (65) 9338 2594
Email: aung_thi_ha@imda.gov.sg