SECURITY **Digital Roadmap**

The Security Digital Roadmap is for small and medium enterprises (SMEs) to assess their digital readiness and identify opportunities for going digital.

An Initiative by:



Sector Lead:

Supported by:













Our Security Industry

Industry Challenges and Opportunities

Digital Roadmap

Digital Skills Needed

Get Started Today

01 - OUR SECURITY INDUSTRY

The Security industry provides private security services and plays a key role in supporting law enforcement agencies to maintain safety and security in Singapore.





240 Security Agencies



Intended Users of this Guide



Security Agency



Building Owner/ Service Buyer



Source: MHA

02 - INDUSTRY CHALLENGES AND OPPORTUNITIES



The Security Industry Transformation Map (ITM)

The Security Industry Transformation Map (ITM) is a tripartite effort to develop a vibrant, technologically advanced and competitive security industry that delivers better security outcomes for Singapore and provides good jobs for Singaporeans.



Click <u>here</u> or scan this QR code for more details on the Security ITM

The Industry Digital Plan (IDP)

The IDP serves to meet the productivity and innovation objectives of the ITM.



* Includes training under SkillsFuture Series and Skills Framework

03 - DIGITAL ROADMAP

Transformation With Digitalisation



Current:

Manpower intensive and low digital technology adoption; use of manual surveillance, access control and patrolling.

Stage 1: Digital Systems, Optimise Resources

Digitalise surveillance to reduce manpower intensive work and ease resource constraints.



Stage 2: Integrate Services, Enhance Response

Digital service integration enables service portability and enhances response speed and quality.

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Stage 3: Converging Insights, Intelligent Business

Exploit opportunities to maximize business value through advanced tech and convergence.

Digital Roadmap on Training:

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To equip individuals and businesses with skills needed for transformation with digitalisation.

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Digital Roadmap

The Digital Roadmap serves as a guide to follow on your go digital journey.







Resource Management including Human Resource, Payroll, Accounting, Resource Management, Training Management etc.





Digitalise surveillance to reduce manpower intensive work and ease resource constraints

Mobile-enabled Patrol & Incident Management



Allow mobile access to work assignment and reporting. Organise, track and manage patrol activities, resources, routes and documentation.

Key Benefits:

- Real-time tracking, reporting and communications
- Visibility and management of multiple sites remotely

Automated Visitor Management *



Control facility access with visitor registration. May include biometrics and car plate recognition. Integrate with facility access control systems to prevent unauthorised entry.

Key Benefits:

- Speed up registration and improve visitor flow
- Free up manpower through self-service automation
- Eliminate data inaccuracy and allow visitor pattern analysis

Onsite Surveillance and Analytics



Enhance onsite security monitoring through IP-enabled video cameras that are augmented with analytics to detect security incidents.

Key Benefits:

- Enhance security capabilities and increase productivity
- Enable remote surveillance

*only for facilities that require visitor registration



Growing in the Digital Economy

Integrate Services, Enhance Response

Digital service integration enables service portability and enhances response speed and quality

Clustered Security Guarding



Centralised surveillance and decision making covering multiple facilities and areas supported by mobile response teams, real-time video feeds and network of sensors and analytics.

Key Benefits:

- Optimise security manpower to cover more buildings / facilities
- Scalable business model
- Fast response to ground incidents

Risk/Threat Prediction & Detection



Detect unusual and less predictable security events under challenging situations (e.g. large crowds, unpredictable flow of people).

Key Benefits:

- Effective monitoring of challenging and high-activity deployment sites
- Optimise tight resources
- Supports security officers to detect emerging threats

Wearable Security Technology



Equip security guards with new tech for event capturing, geolocation tracking and man-down alert to augment patrolling duties.

Key Benefits:

- Improve personal safety and protection for security officers
- Enable real-time monitoring of security incidents
- Improve situational awareness and response capabilities

StageLeaping AheadConverging Insights, Intelligent Business

Exploit opportunities to maximise business value through advanced tech and convergence

Surveillance Robots



Deploy autonomous robots and drones to augment patrol and surveillance duties. Cover large remote areas and hazardous situations that are difficult or impossible to deploy cameras. Use security robots to respond to security incidents, defuse situations and deter crime.

Key Benefits:

- Augment capability to provide security protection over challenging terrain
- Enable persistent security presence through 24/7 monitoring/coverage

VR / AR for Training



Use Virtual Reality (VR) / Augmented Reality (AR) for security training. Enable security staff to have greater access to training resources, immerse in more realistic scenarios, and track trainee performance.

Key Benefits:

- Increase productivity of trainees and trainers
- Optimise resources that include facilities and training toolkits
- Improve training outcomes including knowledge retention and recall

Leaping Ahead

Converging Insights, Intelligent Business

Exploit opportunities to maximise business value through advanced tech and convergence

Security Collaboration Platform

Stage



Integrate video feeds, operational data, sensor networks and building / environmental systems to enable visualisation, sense-making, and intelligent response. Layer with building information management (BIM) systems for advanced 3D security planning, scenario simulation and security implementation. Connect with Smart Facility Management (FM) platform to enable collaboration across the Built Environment.

Key Benefits:

- Enable deeper, real-time security sensing and assessment
- Improve security team capabilities
- Improve information sharing and collaboration with security stakeholders including police, building owners, government agencies, etc.
- New opportunities for productivity gains by sharing facilities management systems/equipment



FUTURE OF SECURITY GUARDING



Onsite Surveillance & Analytics

Access Control

04 - DIGITAL SKILLS NEEDED

Digital skills are required for all security job roles to varying levels of proficiency. You may refer to these job roles and skills needed to support your digital journey.



Types of Users

04 - DIGITAL ROADMAP ON TRAINING



Training programmes aligned to Skills Framework and emerging areas under SkillsFuture Series.

<u>Legend</u>







Online Learning/ Micro-Learning

05 - GET STARTED TODAY

You will be supported at every stage of your digital journey. You can perform a self-assessment or contact business advisors at SME Centres for assistance.



FOR MORE INFORMATION

For SME

Digital Solutions

Tech Depot https://www.smeportal.sg/content/tech-depot/ en/home.html

Digital Sector Projects

SMEs Go Digital https://www.imda.gov.sg/SMEsGoDigital

Digital Consultancy

SME Centre

https://www.smeportal.sg/content/smeportal/en/resources/sme-centres.html SME Infoline: +65 6898 1800

SME Digital Tech Hub www.digitaltechhub.sg

Digital Project Management Services

SMF

http://www.smfederation.org.sg/capability-capacitydevelopment/project-management-services

For Individuals

Capability Upgrading and Career Facilitation

Security Industry Institute http://www.tp.edu.sg/centres/temasekskillsfuture-academy http://www.tp.edu.sg/sii

Course Directory http://www.skillsfuture.sg/credit

Fundamentals for Future Economy http://www.skillsfuture.sg/digitalworkplace

Skills Framework http://www.skillsfuture.sg/skills-framework WSG's Careers Connect http://www.wsg.gov.sg/career-services.html

e2i Centres http://e2i.com.sg/app

Union of Security Employees http://www.use.org.sg

This Digital Roadmap is part of the SMEs Go Digital programme

For programme information and feedback: https://www.imda.gov.sg/SMEsGoDigital



For more news and information, visit www.imda.gov.sg or follow IMDA on Facebook IMDAsg and Twitter @IMDAsg.

The Infocomm Media Development Authority (IMDA) will develop a vibrant, world-class infocomm media sector that drives the economy, connects people, bonds communities and powers Singapore's Smart Nation vision. IMDA does this by developing talent, strengthening business capabilities, and enhancing Singapore's ICT and media infrastructure. IMDA also regulates the telecommunications and media sectors to safeguard consumer interests while fostering a pro-business environment. IMDA also enhances Singapore's data protection regime through the Personal Data Protection Commission.