

# Construction and Facilities Management Sector in Singapore | SMEs Go Digital



<https://www.youtube.com/watch?v=qE0v3ifRhU4>



**SMEs GO DIGITAL**

**MAKES GOING DIGITAL  
SIMPLE FOR SMEs**

**Introduction to  
SMEs Go Digital and Construction  
and Facilities Management (FM)  
Industry Digital Plan (IDP)**

22 DECEMBER 2020

**SG:D**  
EMPOWERING POSSIBILITIES



# DIGITAL ECONOMY FRAMEWORK FOR ACTION

For a Future Economy and Smart Nation

Reinventing Singapore  
as a **leading Digital  
Economy**



every business can be a  
**DIGITAL** BUSINESS



every worker can be  
**EMPOWERED** BY TECH





# IMPORTANCE OF SMEs IN SINGAPORE

SMEs are a major engine of the economy and a significant employer

99%

of companies

2/3

of workforce

50%

of GDP



# SMEs GO DIGITAL: STRONG MOMENTUM

SMEs understand need to go digital; partnerships with banks and telcos to drive adoption



Industry  
Digital Plans  
launched for  
**14**  
sectors

**200+**  
Solutions  
Pre-Approved

**50,000+**  
SMEs  
supported



# SMEs GO DIGITAL: 3 STEPS TO GO DIGITAL

Making it simple for SMEs to digitalise



SMEs GO DIGITAL

## 3 STEPS TO GO DIGITAL



**For more information**

Scan the QR code or visit  
[www.imda.gov.sg/SMEsGoDigital](http://www.imda.gov.sg/SMEsGoDigital)

### Support available

- Pre-Approved Solutions
- Start Digital Pack
- Grow Digital
- Consultancy Services (SME Digital Tech Hub)
- Government Grants (e.g. Productivity Solutions Grant (PSG); SkillsFuture Enterprise Credit (SFEC))
- Digital Resilience Bonus
- Digital Project Management Services

1

**Is your business digital-ready?**

Find out using the Industry Digital Plan (IDP) for your sector.

2

**How do you get started?**

Take up pre-approved solutions with grant support.

3

**Where can you get help?**

Contact your nearest SME Centre for support.



IMDA

**SMEs Go Digital Website**

**SG:D**  
EMPOWERING POSSIBILITIES





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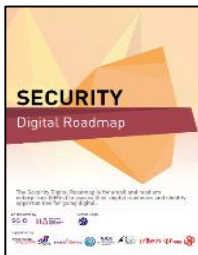
# 15 IDPs launched for 14 ITM sectors, with efforts underway for remaining sectors

## IDPs Launched



### Logistics IDP

Launched Nov '17  
Refreshed with Air Transport Aug'20



### Security IDP

Launched Jul '18



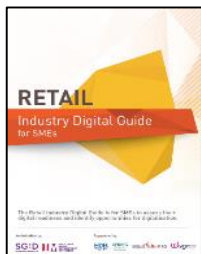
### Media IDP

Launched Dec '18



### Hotel IDP

Launched Nov '19



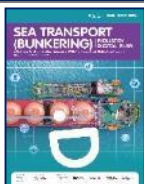
### Retail IDP

Launched Nov '17



### Food Svcs IDP

Launched Nov '18



### Sea Tpt IDP (Ship Agency, Harbour Craft & Bunkering )

Launched Apr '19 and Oct'20



### Construction IDP

Launched Mar'20



### Env Svcs IDP

Launched Jul '18



### Wholesale Trade IDP

Launched Nov '18



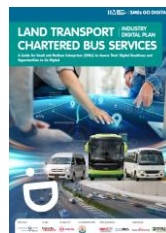
### Accountancy IDP

Launched Aug '19



### Trg & Adult Edu IDP

Launched Aug'20



### Land Transport Chartered Bus Services

Launched Nov'20

## Planned IDPs



### Early Childhood

Planned 1Q21



### Marine & Offshore Mfg

Planned 1Q21



### Healthcare

Planned  
1Q21



### Food Mfg

Planned  
1Q21



### Energy & Chemicals Mfg

Planned 1Q21



### Precision Engr. Mfg

TBC



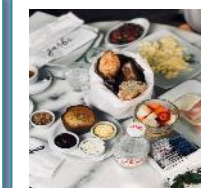
### Retail (Refresh)

Planned 1Q21



### Env Svcs (Refresh)

Planned 1Q21



### Food Svcs (Refresh)

TBC

Remaining ITM sectors



# DIGITALISATION BENEFITS SMEs

Unlocking value-added and productivity

Significant increase in **Value-Added** and **Productivity** for SMEs using additional digital technology

such as e-Payments, e-Commerce, SaaS, Internet of Things, Data Analytics, and Artificial Intelligence

**+17%**  
Productivity

**+26%**  
Value-Added

From study by MTI: **Digital Adoption Among Firms and Impact on Firm-Level Outcomes in Singapore** under 1Q19 Economic Survey of Singapore released on 21 May 2019.



# CONSTRUCTION AND FM INDUSTRY DIGITAL PLAN

Developed by IMDA and BCA in partnership with other government agencies and industry partners

Launched in Mar 2020



ASSOCIATION OF  
CONSULTING ENGINEERS  
SINGAPORE



THE SINGAPORE CONTRACTORS ASSOCIATION LTD  
Incorporated in Singapore



IMDA  
Construction  
and FM IDP  
Website





1

# CONSTRUCTION AND FM INDUSTRY DIGITAL PLAN - DIGITAL ROADMAP

Construction and FM IDP and Digital Roadmap launched by IMDA, BCA and industry partners

## Stage 1

Getting Digital Economy Ready

**Uplifted Digital Capabilities,  
Optimised Operations**



3D Modeling,  
Immersive Visualisation  
& Analysis



Building Information  
Modelling (BIM)-to-  
Field



Digital Wearables  
for Workers' Health  
and Safety



Quantity  
Surveying and  
Valuation



Site/Yard  
Management



Coordination Tools  
and Collaboration  
Platform



e-Permit-to-work  
(e-PTW)



Facilities Management  
Workflow Automation  
(e.g. Smart Access, Energy Management  
& Smart Metering, Mobile Inspection,  
Digital Signage)

## Stage 2

Growing in the Digital Economy

**Integrated Ecosystem,  
Streamlined Processes**



Integrated and Smart  
Worksite Monitoring  
and Inspection



Coordinated  
Regulatory Approvals  
& Rule-based Model  
Checker



Computational  
Design



BIM for Asset  
Delivery / Facilities  
Management



Built Environment  
Digital Platform

## Stage 3

Leaping ahead

**Intelligent Business,  
Autonomous Operations**



Intelligent National  
Productivity and Quality  
Specification (INPQS)



Robotics for  
Autonomous  
Construction and  
Facilities  
Management



Data & AI-driven  
Decision Support  
System



Blockchain for  
Progress  
Verification

## BUSINESS CAPABILITIES

Accounting Management, Human Resource Management, Customer Relationship Management,  
Sales Management, Inventory Management, Fleet Management and Cybersecurity

**Note:** This roadmap will be updated over time as digitalisation of the sector progresses and new technologies are introduced to the sector.



1

# CONSTRUCTION AND FM INDUSTRY DIGITAL PLAN – DIGITAL TRAINING ROADMAP

Prepares industry's workforce to adopt digital solutions

	STAGE 1 Getting Digital Economy Ready	STAGE 2 Growing in the Digital Economy	STAGE 3 Leaping Ahead
Tech Basic Courses	<ul style="list-style-type: none"> <li>SkillsFuture for Digital Workplace</li> <li>Introduction to Construction Industry Transformation Map (ITM) and Integrated Digital Delivery (IDD)</li> <li>Understanding Building Information Modelling (BIM) Data and Modelling</li> </ul>	<ul style="list-style-type: none"> <li>Overview – Integrated Digital Delivery (IDD) Concepts and Project Framework</li> <li>Understanding Project Collaboration</li> <li>Understanding Construction Site Management</li> </ul>	<ul style="list-style-type: none"> <li>Understanding Digital Design for Manufacturing and Assembly (DfMA)</li> <li>Understanding Virtual Construction</li> <li>Basics to Smart Facilities Management (FM)</li> </ul>
	Vendor-Specific Solutions Training		
Tech Advanced Courses	<ul style="list-style-type: none"> <li>Basic Building Information Modelling</li> <li>Intermediate Building Information Modelling (Coordination &amp; Documentation)</li> <li>Advanced Building Information Modelling (Computational)</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Digital Delivery (IDD) Project Planning and Execution</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Digital Delivery (IDD) Application and Development</li> <li>Data Analytics and Machine Learning</li> <li>Internet of Things</li> </ul>

Please visit the followings for more details:



BCA Academy



Singapore Polytechnic



2

# SMEs GO DIGITAL: PRE-APPROVED SOLUTIONS

ACCESS PROVEN AND CURATED SOLUTIONS THAT COME WITH GOVERNMENT GRANT SUPPORT

INFO-TECH

SKYFY  
Technology  
41 GPS Tracking System  
www.skyfy.com.sg

361°

SGDATAHUB

HRS  
Hospitality Retail System

abss  
Formerly known as MYOB South Asia

WESS

advocado

FirstCom  
SOLUTIONS  
DESIGN • HOSTING • M1 SERVICES

Completing I.T.  
CE  
peripherals

EDGEWORKS  
Solutions  
Go Further

creative world

appzinc.  
SUCCESS IS JUST AN APP AWAY

ePOS

WEBO

A&B GROUP

eOddie

K  
Kayden Pte Ltd

over 200 pre-approved digital solutions

SUNTOYO

ZETTA

Deskera

EPOINT SYSTEMS

MEGAPOS

COOBIZ  
IT solutions pte ltd  
Ideal Solutions for Bizness

NOVITEE

eisol

AZ digital

FoodZaps

Solo Pte Ltd  
Into The Future

iMetrics  
POS Solution

Frontwave

MuRho

whyze

US  
USER BASIC SOFTWARE PTE LTD

SODA  
IN MIND

UNIPRO  
SOFTWARE  
Leading Transformations

AMAX

AGHRM®

TRACK 365

LevelFive

SMARTCOMM  
Internet of Things Specialist

SG:D  
EMPOWERING POSSIBILITIES

INFOCOMM  
MEDIA  
DEVELOPMENT  
AUTHORITY

HOME / PRODUCTIVITY SOLUTIONS GRANT / PRE-SCOPED IT SOLUTION / BUILDING & CONSTRUCTION

## Building & Construction

Overview

Pre-scoped IT Solution ^

Banks

**Building & Construction**

Cleaning

Early Childhood

Enrichment and Tuition  
Centres

Food Manufacturing

Food Services

Healthcare

IT

Legal

### Pre-scoped IT Solutions for Building & Construction

Solutions supported under the Productivity Solutions Grant are regularly reviewed. Do take note of the current support levels and grant caps.

e-Permit-to-work (e-PTW)	+
FM Workflow Automation	+
Quantity Surveying and Valuation	+
Coordination Tools and Collaboration Platform	+
3D Modelling, Immersive Visualisation & Analysis	+



<https://govassist.gobusiness.gov.sg/productivity-solutions-grant/>



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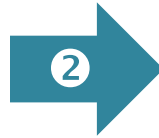
# Apply for Grant Support for Pre-Approved Solution



**SME**



- Browse for Pre-Approved Solutions
- Contact Vendors



- Discuss your requirement with the vendor
- Get quotation from the vendor



- Submit the Grant Application at the Business Grants Portal (BGP)



Sector Agency process the application



- SME Accept Letter of Offer



- Deploy the solution



SME submit claims in BGP

## DIGITAL SECTOR PROJECTS

Pilot digital solutions new to SMEs, that have the potential to be scaled across sector

### Large Retailer and Supplier network

**Increases sales of SME suppliers by over 20%**



### Freight Forwarders and Shipper network

**Lowens costs of SME freight forwarders/ shippers by 30%**

### Disruptive Business Innovation in Security

**Reduces manpower and costs for securing facilities**





# 2

## START DIGITAL: DIGITAL HEADSTART FOR SMEs

Partnership with banks and telcos to drive adoption

- Help new SMEs to start their businesses right with foundational digital solutions
- Start Digital Pack - any two solutions for the following categories



Accounting



HR Management  
Systems & Payroll



Digital  
Marketing



Digital  
Transactions



Cybersecurity

- Cost waived for a minimum of six months and a contract period of at least 18 months.

- Start Digital Partners



# GROW DIGITAL

- Help SMEs connect to Business-to-Business (B2B) and Business-to-Consumer (B2C) E-Commerce platforms pre-approved by IMDA that have regional or global reach

## Benefits:



COMMITTED  
FOREIGN  
BUYERS



INTELLIGENT  
BUSINESS  
MATCHING



PUSHED  
FINANCING



CROSS-BORDER  
E-PAYMENT



CROSS-BORDER  
DOOR-TO-DOOR  
FULFILLMENT

- Get up to **70% grant support** when you sign up
- Or 90% grant support when you sign up for the **Multichannel E-commerce Platform (MEP) Programme** (valid till 31 December 2020)



[www.imda.gov.sg/GrowDigital](http://www.imda.gov.sg/GrowDigital)



[Watch the Grow Digital  
explainer video](#)



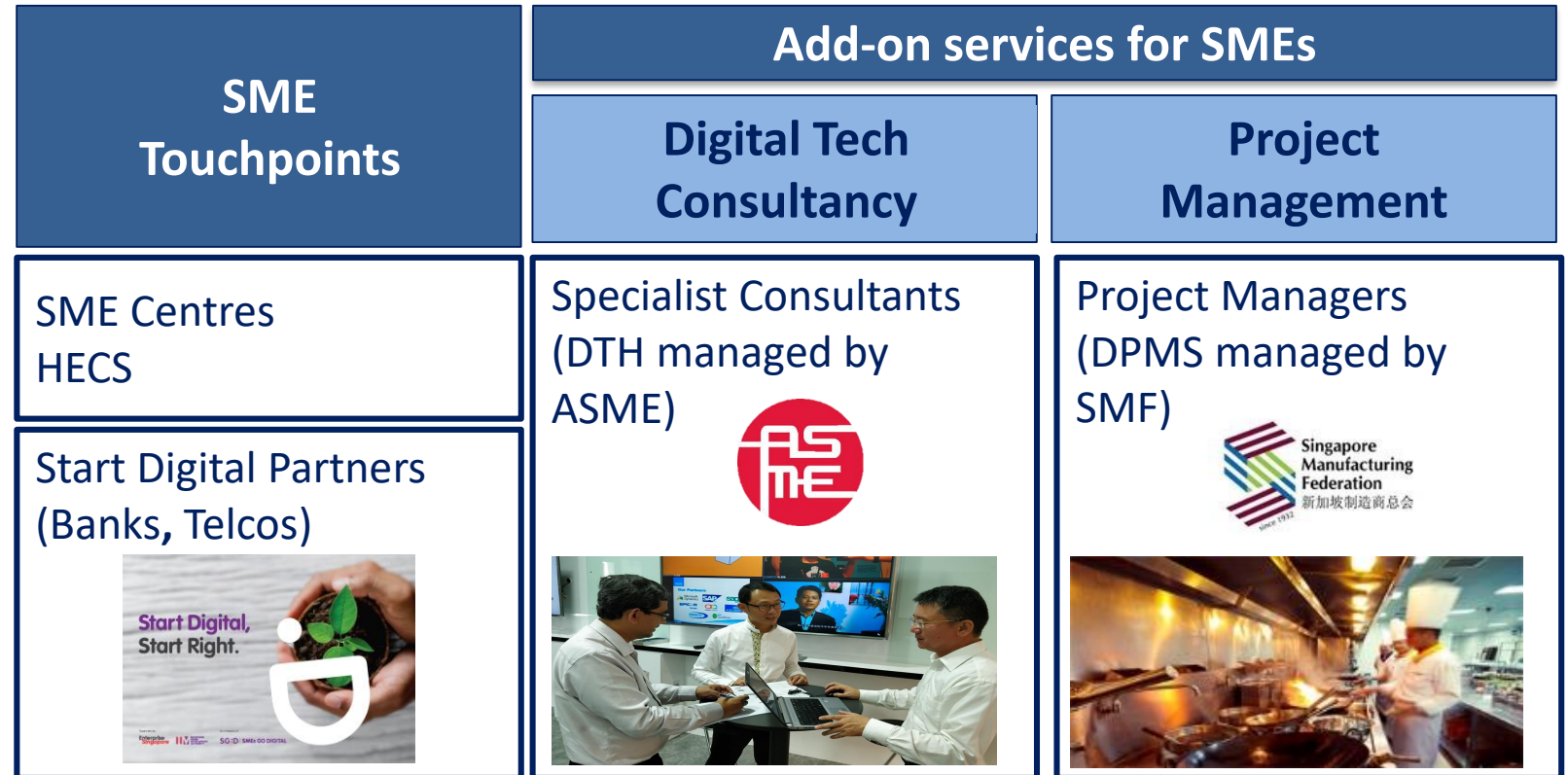
[Watch the Grow Digital  
interview video](#)



# SUPPORT NETWORK FOR SMEs TO TAP ON FOR DIGITALISATION NEEDS



**SME**



3

## DIGITAL CONSULTANCY

Tap on expert advice at the SME Digital Tech Hub

**SMEs can tap on expert advice to transform their business with digital technologies:**



**Guides SMEs to identify suitable digital solutions**

**Consultants with 30+ years' IT experience**

**Expertise in**

- IT strategy
- Cybersecurity
- IOT
- Data Analytics
- Data Protection

**At no cost to SMEs**



3

## DIGITAL PROJECT MANAGEMENT SERVICES

Experienced digital project managers can help SMEs deliver better digitalisation projects

**For SMEs that need help to implement digital projects, they can tap on project managers from DPMS:**



**Tap on pool of 500+ experienced digital project managers**

**Up to 70% co-funding for SMEs**

### **Benefits**

- Improved time management
- Better resource management
- Redesigned processes
- Long term sustainability





THANK YOU