

#### **#SmartNationIB**

# Towards the Next Bound of Digital Government

24 May 2023 | 9.30am – 12.30pm Suntec City Convention Centre

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Chief Executive Government Technology Agency



SG Tech Stack Smart City Sustainability

### We have made good progress in our Smart Nation journey

#### **Digital Infrastructure**

#### 1 st

Global rankings for tech infrastructure (2022)<sup>1</sup>

99% Singapore households with internet access

164% Mobile penetration rate<sup>2</sup>

160k Individuals trained in AI, IOT, & Cloud Engineering (since 2016)<sup>3</sup>

- 1. Based on 2022 IMD World Competitiveness Report
- 2. Based on IMDA stats on telecom services for 2022 Jul-Nov
- 3. Trained with IMDA's TechSkills Accelerator (TeSA) initiative

**Digital Government** 

**1**<sup>st</sup> in Asia IMD Smart City Index (2023)

#### **3**rd UN E-Participation Index (2022)

99%

Govt transactions completed digitally endto-end (2022)

98% Govt services that offer e-payment option (2022)

#### **Digital Services**

#### 84%

**Citizen satisfaction with Govt services (2022)** (Up from 73% in 2016)

#### 79%

**Business satisfaction with Govt services (2022)** (Up from 64% in 2016)

**300m** PayNow transactions (2022) (individual & corporate)

**5 m** Singpass users (4.2m on mobile app)





FY23

# **\$3.3 bil of ICT spending in FY23 sustain momentum**

- Citizen/Business-Centric Digital Services
- Enterprise SaaS for CRM & Service Management
- Applications maintenance & support services



# Application Development (\$2.0b) Infrastructure (\$1.3b)



- End-user devices refresh
- Hosting support services
- Cybersecurity services



# 3 Themes



### Application Development



### Sustainability



### **Smart Cities**



2023 by GovTech Singapore

# **Build on SG Tech Stack**





# Use More SaaS

#### **Current Applications Portfolio**

On- premise	Cloud- Native	SaaS

#### **Future Applications Portfolio**

On- Cloud- prem Native	SaaS	
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Enterprise SaaS Bulk Tender

- Low-Code Application Platform
- Business Centric Platform
  - Customer Relationship Management
  - Case Management
  - Service Management



# Modernise Legacy Systems





# **Co-develop** with Industry

#### 27 partners in co-development bulk tenders





# 3 Themes



### Application Development



### Sustainability



**Smart Cities** 

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# Sustainability – A Key National Agenda



- Reduce 2030 emissions to 60 MtCO<sub>2</sub>e, and achieve net zero emissions around 2050
- Green 80% of buildings (by Gross Floor Area) by 2030
- Reduce peak land transport emissions by 80% by or around mid-century
- Reduce amount of waste to landfill by 20% by 2026 and 30% by 2030
- At least 20% of schools carbon neutral by 2030



- Peak public sector's carbon emissions around 2025, and achieve net zero emissions around 2045
- Improve Energy Utilisation & Water Efficiency by 10% by 2030 from average of 2018 to 2020 levels
  - Government data centres will achieve the Green Mark Platinum standard by 2025
- Reduce Waste Disposal by 30% by 2030 from 2022 levels



# **Digital x Sustainability**

# Enabling a <u>Green ICT</u> Sector in Govt

(Adopting sustainable practices across the digital value chain)

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## ICT for Green to support Sustainability in Govt

(Leveraging ICT to enable sustainable outcomes)

2023 by GovTech Singapore

# **Green ICT Sector for Government**

e	GREEN SUPPLY CHAIN	GREEN HARDWARE & EQUIPMENT	GREEN HOSTING	GREEN SOFTWARE ENGINEERING & DATA
	<ul> <li>5% of tender evaluation points for relevant</li> </ul>	<ul> <li>Extension of product life with replacement in</li> </ul>	<ul> <li>Accelerate cloud adoption</li> </ul>	<ul> <li>Pilot Green S/W measurement and techniques</li> <li>Optimise code reuse, data storage, and increase containerisation of applications</li> </ul>
	tenders <i>starting</i> with ICT Hardware	parts and device reuse	<ul> <li>Consolidate DCs across WOG</li> </ul>	
	<ul> <li>Exploring relevant standards for DCs, Cloud, Network Services, Software Vendors</li> </ul>	<ul> <li>OEMs will be increasingly expected to provide device reuse and recycling options</li> </ul>	<ul> <li>Partner CSPs to increase access to cloud carbon emissions data</li> </ul>	



# 3 Themes



#### Application Development



### Sustainability



### **Smart Cities**

2023 by GovTech Singapore

# **Opportunities in Smart Cities**



Smart Estate & Living



Smart Mobility



Smart Environment



Smart Planning & Operations

 Better Lived
 Greater

 Experience
 Higher

 Productivity



## From Pilot to Scale



& Assisted Living



**Personal Alert Button** 

Government Assisted

Living Ecosystem



# The journey to build SNDG will <u>continue</u>...

We look forward to partnering with you!





# Thank You



SG Tech Stack Smart City Sustainability