

# **FY17 Group Enterprise Highlights**





FY18 revenue guidance: \$550m - 650m





of the Year



**Best Cloud Computing** Adoption Project – G-

# Revenue



\$2.9b +11%

45% of FY17 revenue mix

**FY18 ICT revenue guidance:** To grow mid-single digit %



**Smart** & Safe City

**Smart** Urban **Habitat** 

Launch of **IntelliSURF™** Sentinel

Continued growth & momentum

## Resilient core business performance

## **Market Leadership**

# #1 International IPVPN in APeJ

#1 EVPN and Eline in APeJ

# 1 IPLC in Singapore<sup>1</sup>

# 1 Domestic Data in Singapore<sup>2</sup>

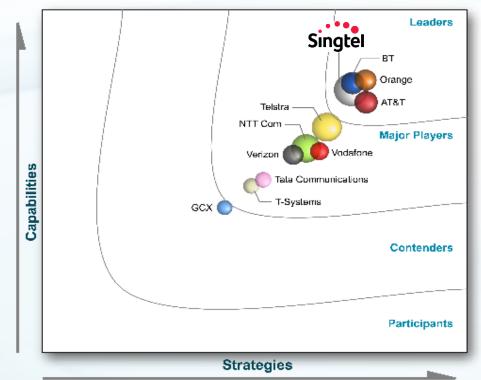
Source: IDC Asia/Pacific Semiannual Telecom Services Tracker, 1H 2016

- 1. Leased line + Eline market revenue for Local Singapore
- 2. Leased Line+ Eline+ MPLS+ EVPN for Local Singapore

#### Leader in APAC Telco services

#### IDC ITMarketScape:

Asia/Pacific Next-Generation Telcos: Telecom Services 2016–2017



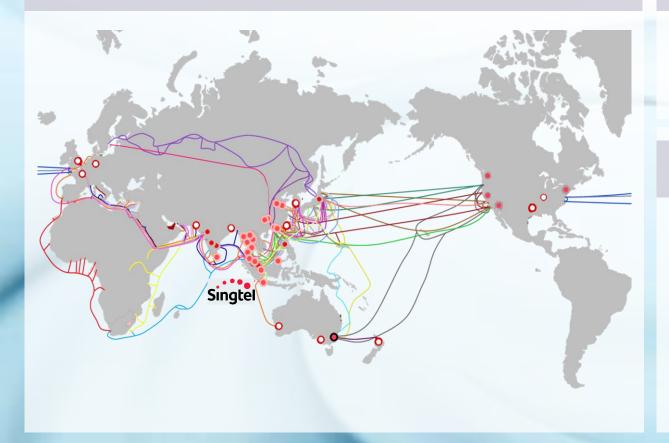
Source: IDC, 2016

Source: IDC ITMarketScape: Asia/Pacific Next-Generation Telcos: Telecom Services 2016-2017 Vendor Assessment, by Nikhil Batra, Hugh Ujhazy, Sandra Ng and Shiv Putcha, February 2017, IDC #AP42353917



# Extending our core carriage leadership

## Most extensive sub sea cable operator in APAC



High concentration of MPLS POPs in key business cities

# with 325 cities and 370 POPs

Leading SD WAN provider in APAC

Unifying disparate networks via **Singtel SD Wan** 





# Accelerate our growth engines



To be a leading global managed security services provider

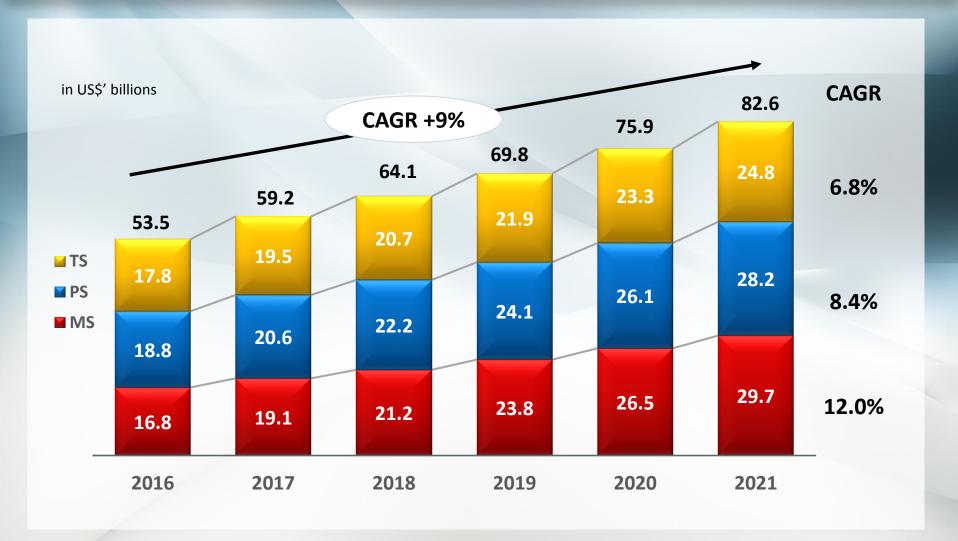


To be a leading trusted enterprise cloud service provider in Asia Pacific



To be the lead partner for Singapore's Smart Nation program and leverage it to address Smart Cities program in the region

# Large and growing Cyber Security services market opportunity



Source: Gartner, Forecast: Information Security, Worldwide, 2015-2021, 1Q17 Update Chart created by Singtel based on Gartner's Research

MS: Managed Security Service: Remote management and/or monitoring of IT security functions delivered via remote security operations centers (SOCs), not through personnel on-site.

PS: Professional Services includes professional / advisory services to help companies analyze business operations and technology strategies. Include two subsegments: business and IT consulting



# Managed Security Services market is competitive & fragmented

## 4 types of players compete in MSS

CSPs/ **Carriers** 

















**System Integrators** 







**Product Vendors** 

















**Pure-Play MSSPs** 







## Singtel's vision to be a leading global MSSP

### **Services**

**Global ASOC footprint** and threat telemetry



**Industry leading and** comprehensive **Managed Security Services capabilities** through world class partnerships









**Basic MSSP with** managed SOC to provide L1/L2/L3 analyses for threat assessment

**End-to-end Managed services** across the protection stack and security operations

## **Developing our deep capabilities**

**R&D** for Next **Gen Security** offerings



Cloud Security



capabilities (



# Expanding our Cyber Security capabilities globally

# Globe ASOC launched in the Philippines



# Partnership with TIS in Japan TIS



# Optus Advanced Security Operations Centre



## Launch of NUS-Singtel Cyber Security R&D Laboratory in Singapore







# Enterprise clients are increasingly looking at cloud options

### **Customer benefits**



### Cost Efficiency

- Reduce capital expenditure and labour costs
- Pay-per-use billing model



## Agility

Greater convenience and control



### Scalability

Able to address dynamic requirements



## Security & Reliability

Peace of mind with enhanced security and service level guarantees

## Different cloud deployment models

**Private cloud** 

Managed private cloud

Virtual private cloud

**Public cloud** 

Customer data center

Service provider data center

# Singtel aims to be a leading cloud service provider with differentiated cloud platforms & service offerings

A trusted partner to meet every need from start to end of customers' cloud journey...

**Consult & Advise** 

- Understand the unique business and IT needs of customers' organization
- Offer expert advice on cloud adoption

Migration implementation services: cloud security services, app migration, software optimisation and hybrid infrastructure management

Implement & Transform

Manage & Operate

Cloud asset management platform - Liquid Sky, security monitoring, cloud infrastructure monitoring and management

Developing repeatable, differentiated and efficient Hybrid Cloud solutions

Security

Interoperability

Manageability

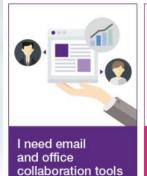
# Gaining momentum for Cloud in our core markets

Extend leadership in the Government & Enterprise Cloud Business

**Drive Cloud Automation & Orchestration** 

## Help SMEs to seize digital opportunities

myBusiness
Apps, Insights and Opportunities for your business







## **Accelerate Customer Digital Transformation**

## **Cloud Operating Model**

Cloud Operating Model to standardize in the areas of Policies, Governance and Service operations



## **Cloud Lifecycle Services**

Standardize the definition and delivery of Cloud Advisory, Transformation and Operations Services



#### Data Centre West



Tier 3+ standard
BCA-IMDA Green Mark Platinum



## Singtel Cloud Connect

Enables a secured & low latency access to public cloud providers in the region



# Building a Safe and Smart Nation

Government tenders worth an estimated S\$2.4 billion to be given out

Today 25 May 17



Singapore

Government to call for S\$2.4b of ICT tenders this year for Smart Nation projects

Channel NewsAsia 24 May 17



by AMIT ROY CHOUDHURY ■ amit@sph.com.sg ■ @AmitRoyCBT



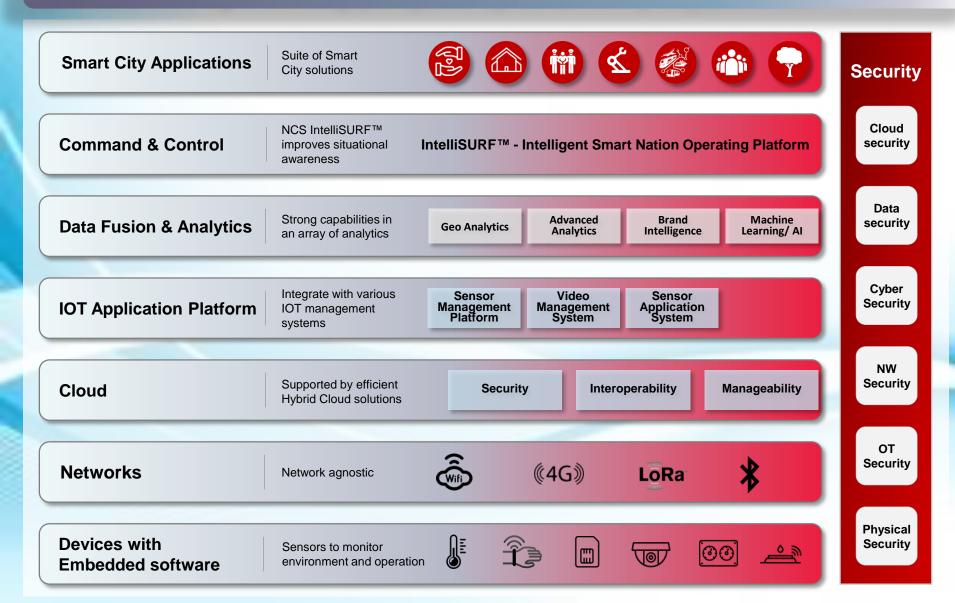
Singapore government to spend S\$2.4bn on technology initiatives

ComputerWeekly.com 24 May 17

The Business Times 25 May 17

Funding will go towards building a national sensor platform, boosting the government's cyber security capabilities and driving the use of robots

# We are creating a strong portfolio of Smart City capabilities



# Leadership in building a Safe and Smart Nation

### **Iconic Smart Nation projects**



**Outdoor Surveillance** 



Public Safety (Road Safety)



Automated Robotic Dispensing System



Continuous Care
Management



Next-Generation Electronic Road Pricing System



MyTransport.SG



**Smart Estate** 



**Smart Campus** 

### **Core capabilities**

Sensors & IOT Management



Mobile, Wifi, Video, Social & Customer Data Analytics



Intelligent Command & Control



Cyber Security & OT Security



# Building IP and deepening our capabilities

Analytics/ Artificial Intelligence







Intelligent
Command &
Control







Cyber-Physical Security







Internet of Things (IOT)







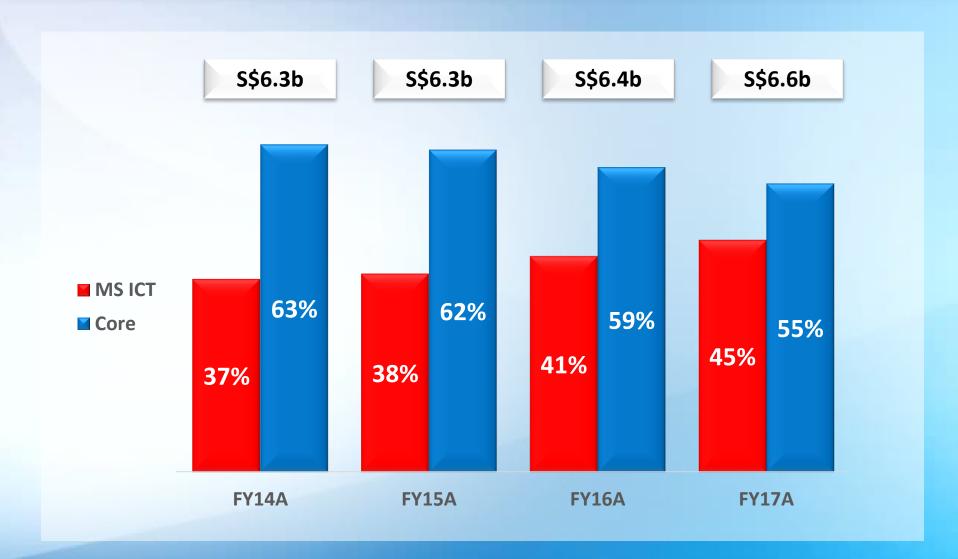
Agile Computing







# Changing Core Telco vs ICT mix over past years



## Industry wins and recognition in 2016

#### Telco



#### Frost & Sullivan Asia Pacific ICT Awards 2016

- Telecom Group Of The Year
- Telco Cloud Service Provider of the Year



#### NetworkWorld Asia Readers' Choice Awards

Best in Managed Infrastructure Services (2012-2016)



#### **World Communication Awards** 2016

Best Enterprise Service -ConnectPlus SD-WAN



#### **Asia Communications Awards** 2016

- Best Customer Care: Business
- Satellite Operator of the Year



#### **TMT Technology Awards 2016**

**Best Telecommunications Company** Asia Pacific



#### **Singapore Media Awards 2016**

Best Business to Business Campaign - 99% SME



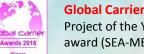
#### **ComputerWorld Singapore Customer Care Awards**

- **Telecommunications Services** (2008-2016)
- VOIP/ IP Telephony Systems (2015-2016)
- System Integrator (2014-2016)



#### **ComputerWorld Hong Kong Awards**

Global WAN Connectivity Service Provider of the Year (2015 - 2016)



#### Global Carrier Awards 2016

Project of the Year - Subsea award (SEA-ME-WE 5)



Year - Subsea

SEA-ME-WE 5 Submarin

#### VSAT Stellar Awards 2016

Service Provider of the Year



#### HWM+HardwareZone.com **Tech Awards: Readers' Choice**

- Best Telco (2010-2016)
- Best Fibre Broadband Service (2010-2016)



KNect 365

### **Telco Cloud Forum Awards 2017**

Best Telco Cloud SDN/NFV Project

#### IDC Fixed Line Tracker 2H2015\*

- Market Leadership for International IPVPN and E-LAN Service APEJ
- Market Leadership for International E-Line and Dedicated Leased Line Services APEJ

#### Cloud



#### **Telco Cloud Forum Awards** 2016

Telco Cloud of the Year



#### Cloud & DevOps World Awards 2016

**Best Cloud Computing Adoption** Project - G-Cloud

## Cyber



#### Frost & Sullivan Singapore **Excellence Awards 2016**

Managed Security Service Provider of the Year



#### NetworkWorld Asia **Information Management Awards**

- Best in Security as a Service (2012-2016)
- Best in Disaster Recovery & **Business Continuity** (2014-2016)



#### SC Awards 2016

**Best Managed Security Service** (Trustwave)



#### **Forrester Wave**

Global Leader in MSSP (Trustwave)





