



How to Win in the Digital Era

where are the opportunities for IT solution partners?

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The Emergence of the DX Economy

2/3 of CEOs

Of G2000 companies will have Digital transformation at the center of their corporate strategy by end of 2017



By 2017, revenue growth from digital products and services is 2X that from the traditional product portfolio.



By 2018, company investments in IoT and cognitive-based operational sensing and situational awareness yield a 30% improvement in critical process cycle times.



By 2022, nearly 20% of operational processes are self-healing and learning – minimizing human intervention.



By 2026, 30% of retail revenue is generated by a customer's digital assistant.

Every organization can be a digital enterprise

Singapore 2017

Changi Airport Group
Digital Transformer of the Year

Grab
Digital Disruptor of the Year

M Social
DX Leader, Operational Transformation

DBS Bank
DX Leader, L3D Mastery

Urban Redevelopment Authority
DX Leader, Talent Acceleration

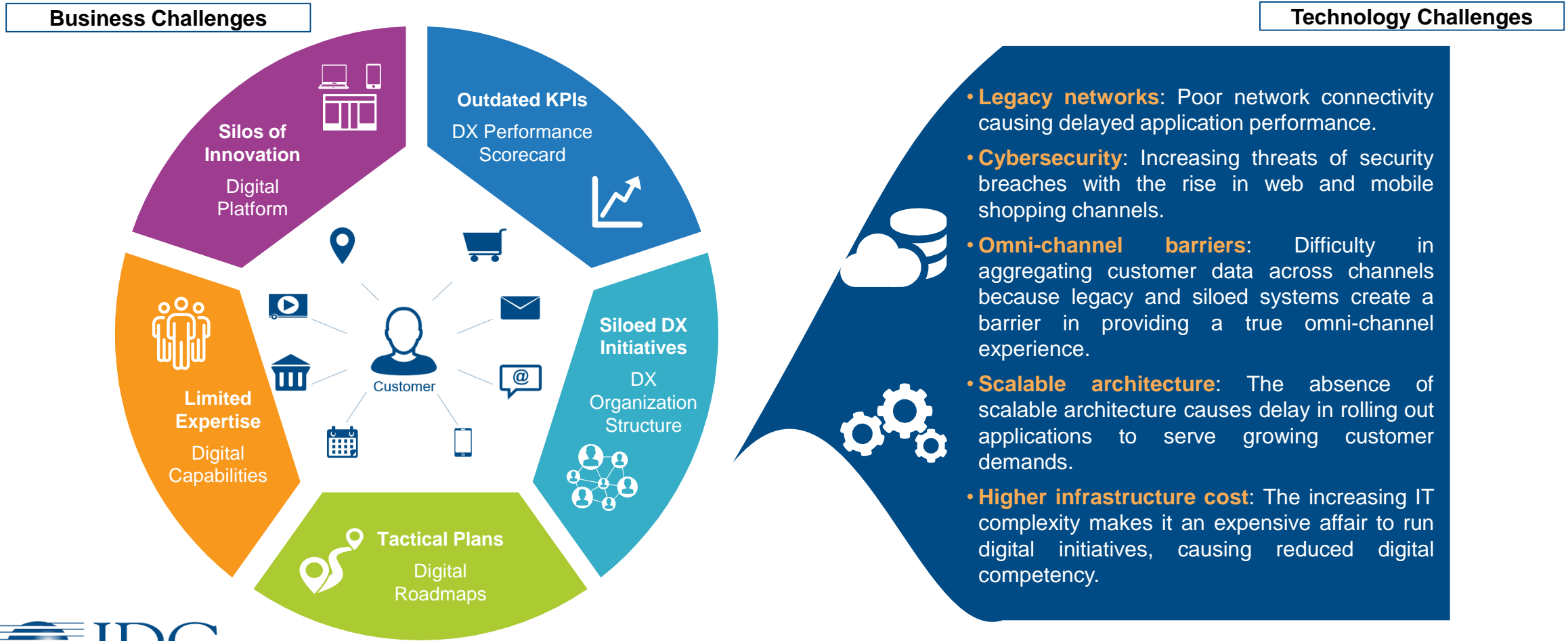
Urban Redevelopment Authority
DX Leader, Information Visionary

For more information, visit www.IDCDXawards.com

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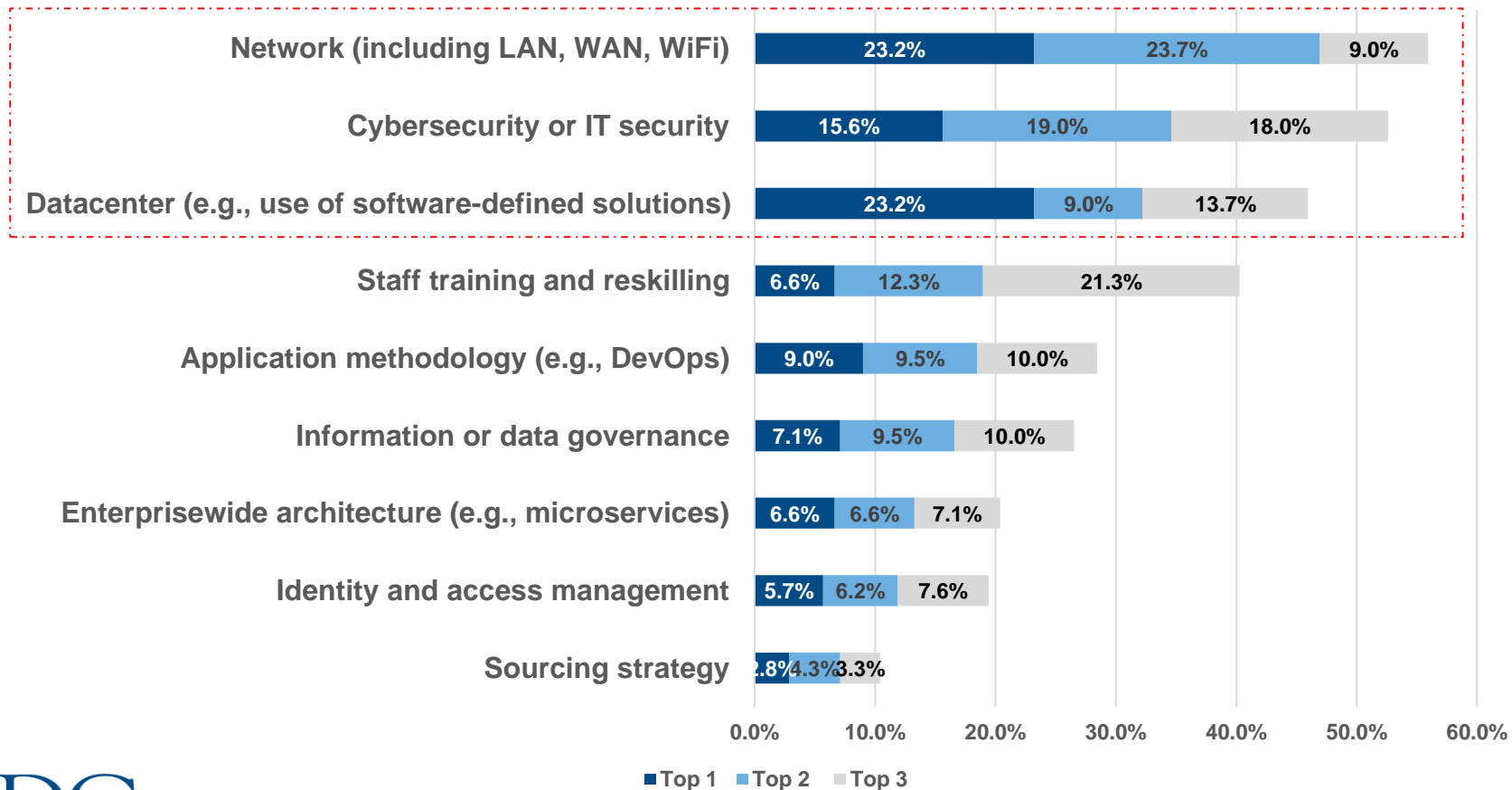
Today, Digital Transformation is a Priority for 82% of Organizations in Asia Pacific

Organizations are being held back by a series of challenges



Top Areas Need for Immediate Improvement

Which of the areas mentioned below would you like to prioritize for adoption or transformation in response to changes brought about by digital technologies (such as cognitive systems, IoT, etc.)?



- The adoption of next-generation technology requires a solid foundation to avoid potential bottlenecks.
- According to IDC's 2017 APEJ IT Services End-User Survey, APEJ organizations are prioritizing the improvement of their networks, cybersecurity, and datacenters to build the foundation to drive digital initiatives.

Transformation Pillars: Agility, Security and Productivity



- Agile IT resources
 - Hyperconverged & Software Defined
 - Cloud

- Building a Secure Experience
 - Securing Digital Assets
 - From Core to Edge



- Highly Productive Workforce
 - Enable mobile workforce
 - Improving productivity, collaboration and reducing cost

Section I: Driving Agile IT resources

APEJ Cloud Market Snapshot

Adoption Is Heading Toward Hybrid Cloud

Private cloud adoption

85% Embracing private cloud

72% Embracing enterprise private cloud (EPC)

64% Embracing hosted private cloud (HPC)

56% Embracing on-demand HPC

Public cloud adoption

85% Embracing public cloud

69% Embracing software as a service (SaaS)

67% Embracing platform as a service (PaaS)

56% Embracing infrastructure as a service (IaaS)

Different Clouds, Different Drivers

55% Public cloud: Improve business agility

55% EPC: Improve IT security

56% HPC: Improve IT security

With regard to security, majority of the respondents believed that **private cloud** architectures are inherently **more secure** than PCS.

With regard to organizations' use of external cloud vendors, respondents said it was important for their cloud provider to allow them to **pay only for what they use or consume.**

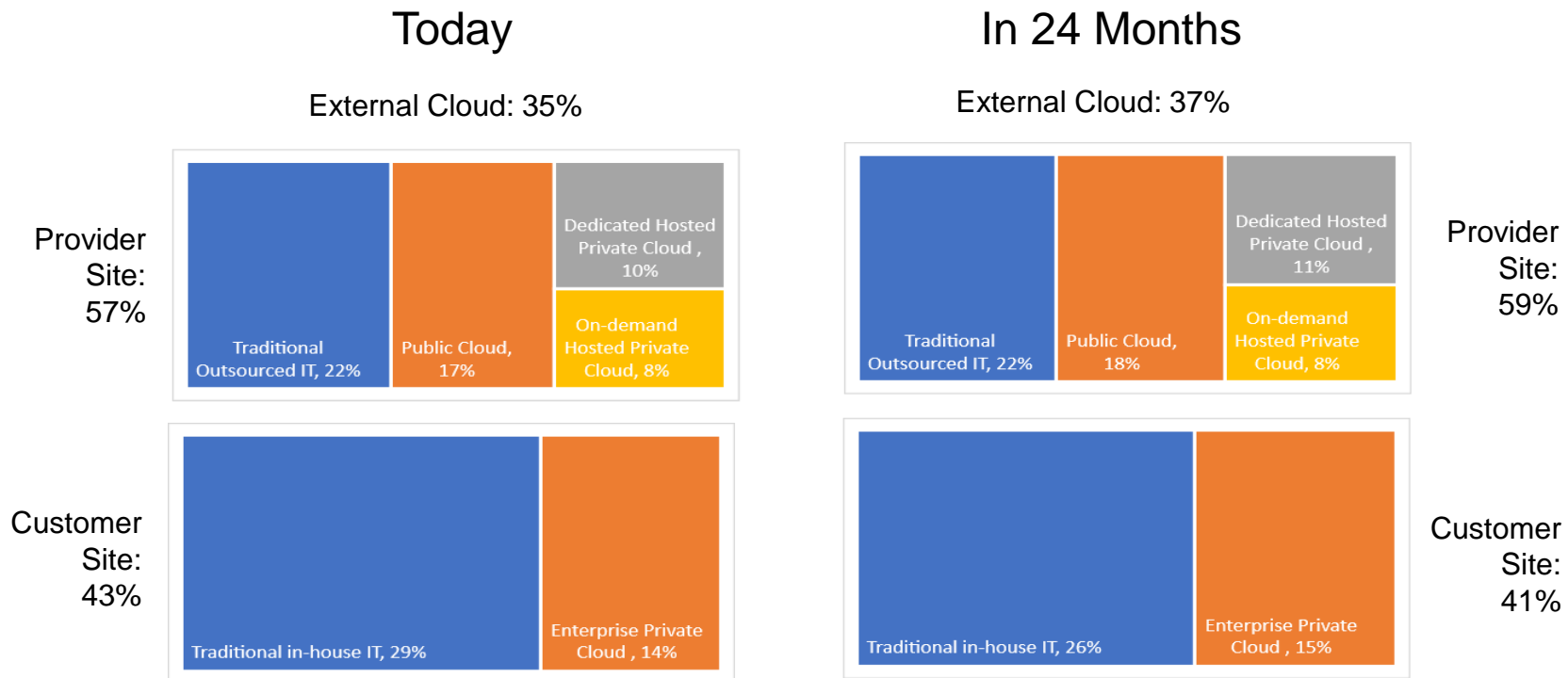
Security is considered the major inhibitor for cloud adoption irrespective of delivery model.

Transparency in pricing model was rated the most important factor while purchasing public cloud services (PCS).

Majority of the organizations said they had a **"cloud-also"** strategy both for procuring net-new IT services and replacing existing on-premise IT services.

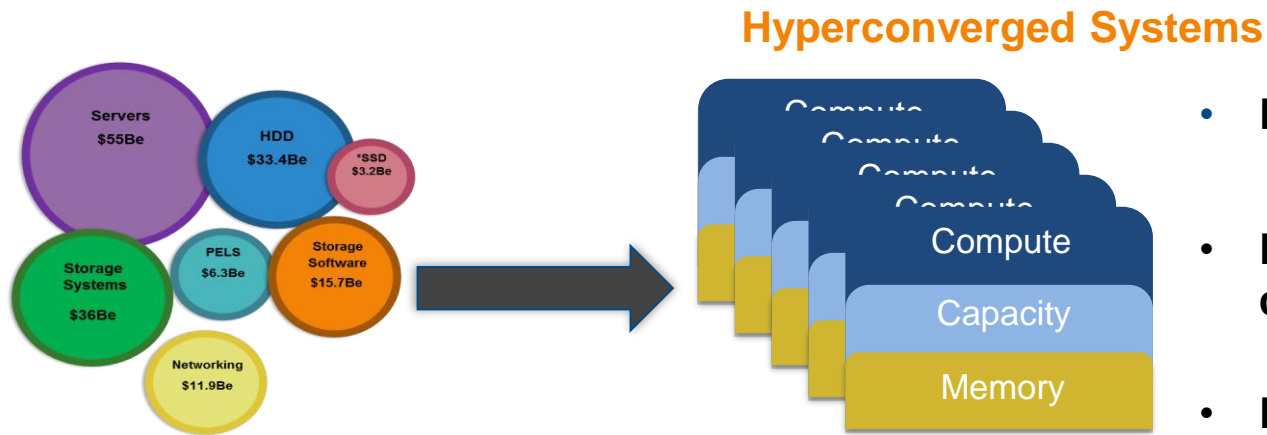
Hybrid IT will be considered as a Standard

Despite concerns around security, investments in public cloud continues to grow. However, organizations are as likely to choose private cloud as they ramp up their cloud adoption. As a result, hybrid IT will be considered as a standard for enterprise architectures.



Q. Please estimate what percentage of your organisation's total annual IT budget (including servers, applications, software, databases, storage products, networking, IT staff, and services) is allocated to each of the following procurement/management models.

Hyperconverged Systems Take Off

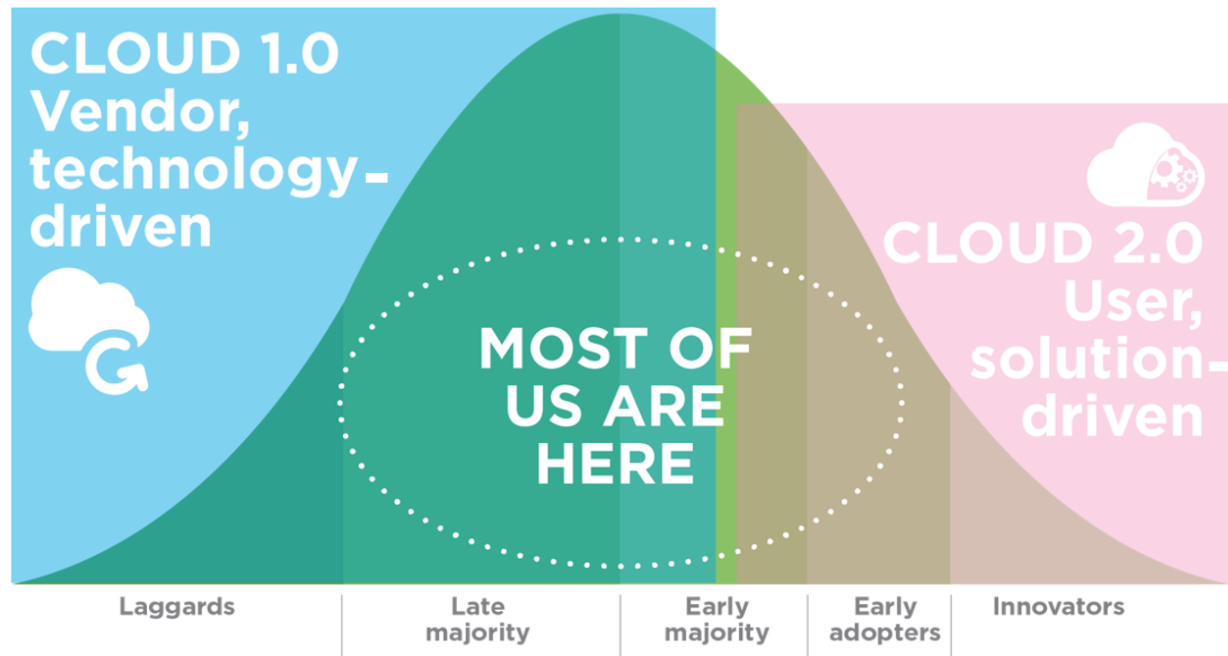


- **Better CapEx & OpEx Balance**
- **Provides similar benefits as 1st gen. convergence more efficiently**
- **Reduces storage silos & storage related management tasks**

Hyperconverged infrastructure and SDI will be foundations for shift to Cloud-based IT

- Permits a high degree of automated orchestration
- Improves speed of infrastructure provisioning and deployment of new services

Cloud 2.0: Moving from Push to Pull



Source: IDC, 2017

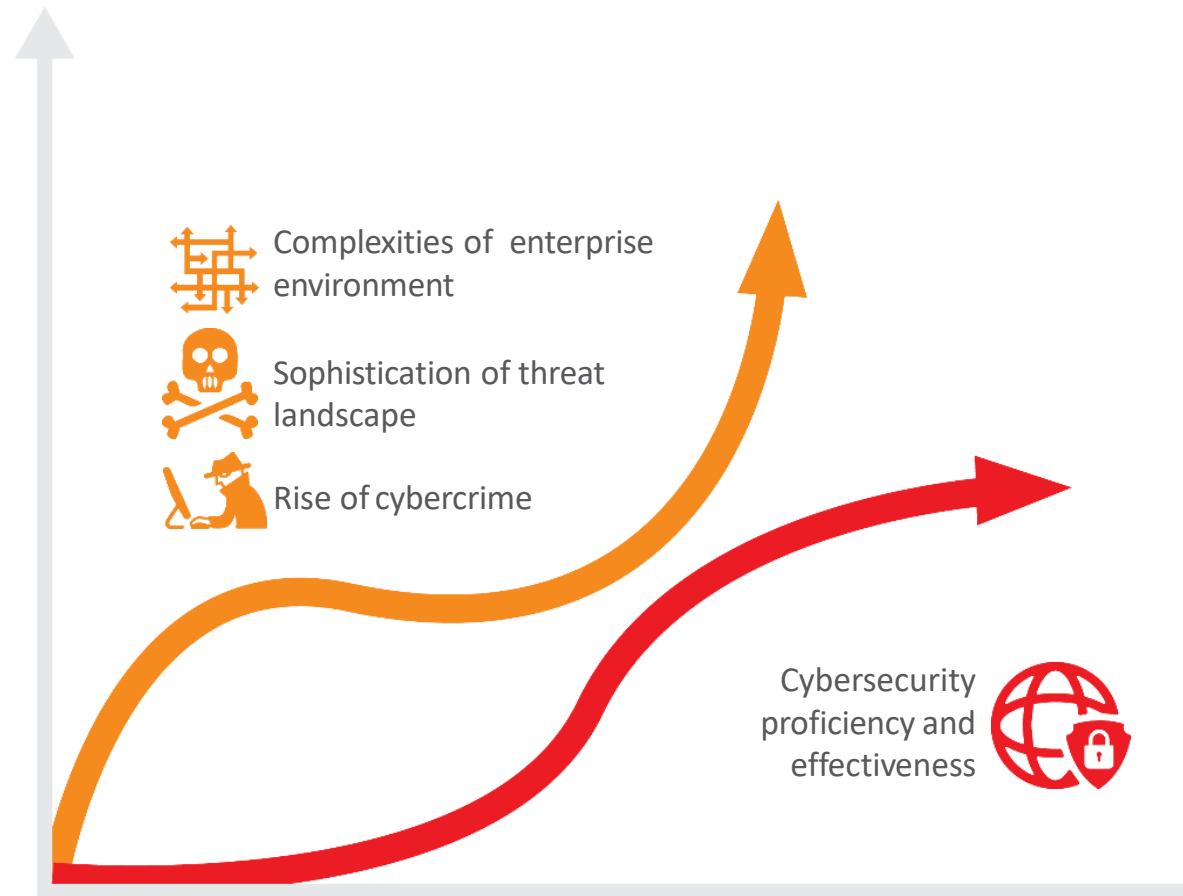
Cloud 2.0 Impact

- By 2020, over 70% of cloud SPs' (CSPs') revenues will be mediated by channel partners/brokers.
- By 2020, almost 60% of enterprises will actively participate in industry-specific compliance cloud.
- By 2020, public cloud will be the "secure" option, using cloud-based encryption, threat analytics, blockchain, and compliance.
- By 2021, the number of new datacenter build-outs by SPs will outpace the number of enterprise build-outs by 2.5 to 1.

Section II: Driving Fundamental Changes in Security

Digital Transformation Widens the Security Gap

- ▶ Diminishing perimeter and much more attack vectors introduced by digital technologies
- ▶ Tons of digital assets and more valuable company assets are in the form of data
- ▶ Crossover of cybersecurity and fraud
- ▶ Superior customer experience versus privacy and security



Weakness in Current Approach

81%

Hack-related breaches use either stolen/weak password in 2017¹

105

Credentials stolen per **second** in 2016²

357 Million

The number of new malware variants reached 357 million in 2016 (about 1 million a day)³

15 mins

It takes 15 minutes from an initial infection to a ransom demand being made⁴

No.1

Malware is the top type of attack in Asia (both as a target and as an originated source)⁵

¹Verizon Data Breach Incident Response Report, 2017 (rise from 63 percent in 2016)

²Shape Credential Spill Report 2017 reported more than 3B credentials reported stolen in 2016

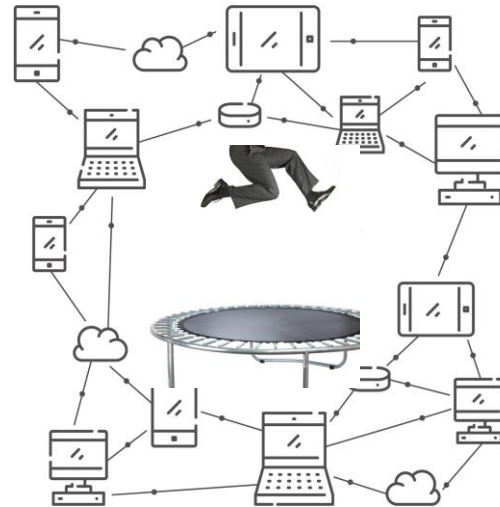
³Symantec 2017 Internet Security Threat Report

⁴LogRhythm, The ransomware Threat whitepaper, 2016

⁵NTT Security 2017 Global Threat Intelligence Report

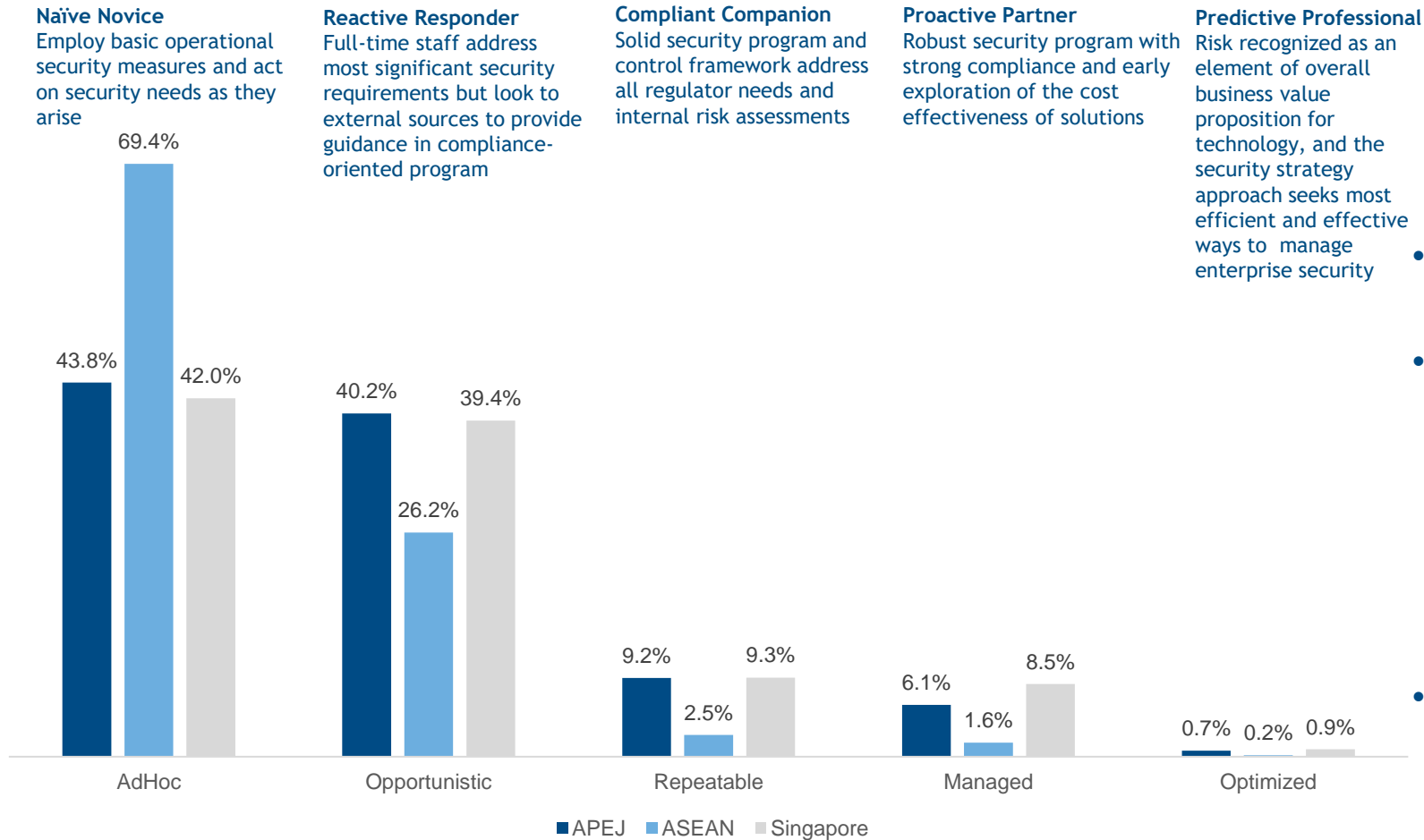
Distributed Integrity & “Trampoline”

The new security model diminishes the notion of “inside” and “outside”



- Focus on business logics, users, data, and applications
- Uses “tracers and tethers” for primary object protection
- Constant monitoring and capable of sharing threat indicators and updating policy based on risk determination.
- The foundation is the ability to **define an identity, authenticate the identity** and accurately provision based on roles and policy associated with that identity.
- Incident Response Strategy
- Crisis Management response (Legal mitigation, Press & PR)
- Mitigate, Forensics, Report/Share, User Training

IDC IT Security MaturityScape Benchmark Report



- We observe most investment will be made when companies move through stage 1 and 2. Lots of the investment come from more than just security technology spend, but also security services spend.
- Once stage 3 is reached, security spend becomes incremental.
- From stage ad hoc to opportunistic, we see lots of tech investment. Areas like APT, threat intelligence, endpoint detection & response are top investment areas. Yet, not enough people able to use the technology adequately.
- From stage 2 to repeatable stage and above, enterprises start to change from a purely prevention-centric view to a more holistic and risk-centric view.

Section III: Driving Productivity

Managing a Mobile and Digital Workforce



- **Productivity, Communication and Collaboration**
- **Explosive of Endpoint devices, multi-format support services**
- **Unified directory, Identity access management**

Immerse Scale from Core to Edge



Keolis

Edge will Drive further Business Case



The New KPIs for a Digital Organization



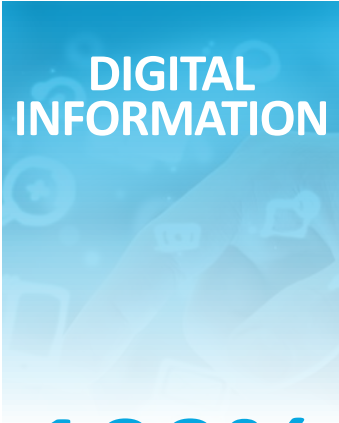
33%

of CEOs will have technology leadership experience



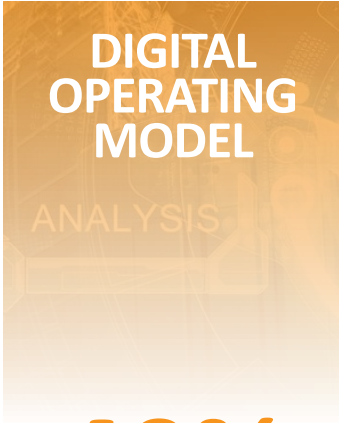
35%

improvement in Net Promoter score when customers own their experience



100%

growth of revenue from information-based products



40%

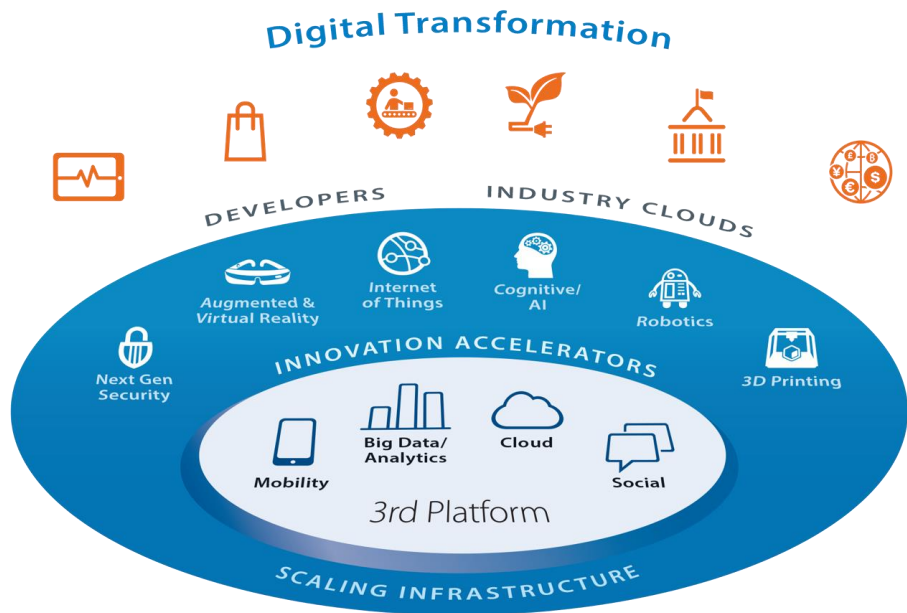
of operational processes will be self healing



50%

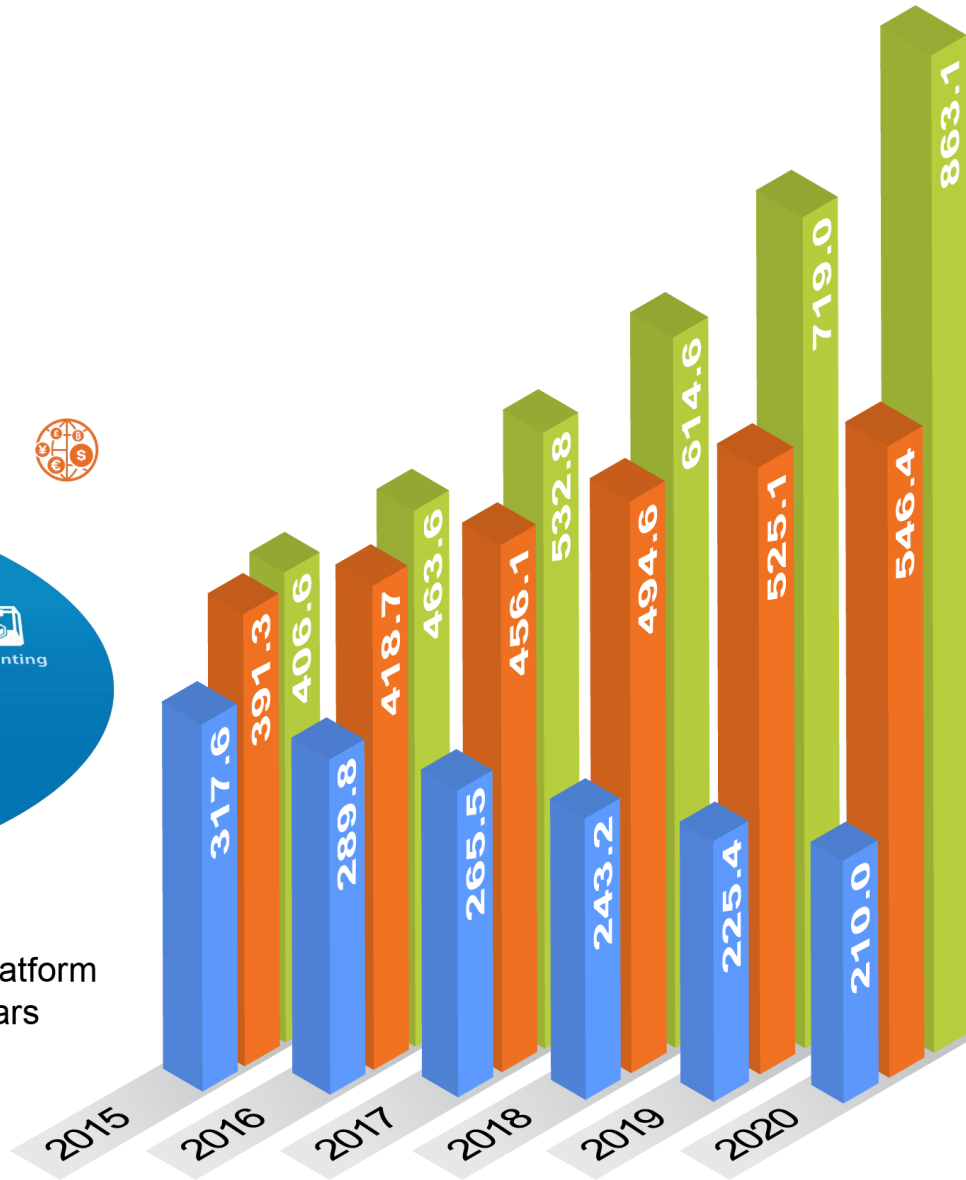
reduction in management layers

Growth Sustained from 3rd Platform and Innovation Accelerators



Source: IDC

- 2nd platform
- 4 pillars
- 6 IAs



2nd platform: -7.9% CAGR
 3rd platform : 12.1% CAGR

Cloud IT infra in SG ('17-'21)
 1.3 Bil ->1.5 Bil

Converged System in SG
 99 Mil --> 126 Mil in 2021

Public cloud services in SG
 828 Mil → 1.6 Bil

Essential Guidance



- Focus on moving to the 3rd platform and moving your company to a recurring revenue type of business, probably around managed services to start.
 - Pick one or more verticals, or horizontals (business process) and becoming known for that. It is easy for customers to find a specialist provider versus settling for a generalist commodity supplier.
 - Always review your point of differentiation and climb the margin stack by accruing IP value, or increasing professional and managed services on offer.
 - Move from “do it ourselves” mentality to being open to forming alliances with other partners to deliver complete business solutions to customers.
 - Be prepared for short-term bumps as your business transforms for a solid long-term success.
- Source: IDC Perspective, Partner of the Future: 10 Transformations IT solution Providers must Make in the Asia/Pacific Region

For More Information

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